

LeeBoy

OPERATIONS, SERVICE AND PARTS MANUAL



LEEBOY MODEL 8510E CONVEYOR PAVER

Manual No. 1019442-01

This manual applies to
Serial Number 171056
and above.

SAFETY

1

INFORMATION AND SPECIFICATIONS

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COMPONENT LOCATION

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OPERATION

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Disclaimer

All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. VT LeeBoy, Inc., VT LeeBoy, LeeBoy, and Rosco are all the same entity and are used interchangeably.

Title 40, Code of Federal Regulations (CFR) 1068

This product meets certified-emission requirements set by the EPA (Environmental Protection Agency), governed by Title 40 CFR 1068, which specifies actions that are prohibited by law and lists civil penalties for noncompliance. As part of those regulations, modification or rendering inoperative any emission-related component can subject you to government penalties (and void your warranty). Tampering with emission controls is in violation of federal law, and can result in civil penalties of up to \$3,750 each day an engine or piece of equipment is operated in violation.

Please be aware that you are responsible for maintaining the machine and the certified emission engine installation. Failure to comply to comply could result in penalties as listed above and void the warranty on this engine and this machine.

For more information, visit: <https://www.epa.gov/laws-regulations/regulations>

California Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and other related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and other reproductive harm. Wash hands after handling.

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Thank you for purchasing the LeeBoy Model 8510E Conveyor Paver. We wish you many years of safe and efficient operation of your LeeBoy product.

READ THIS MANUAL PRIOR TO OPERATING the machine. It is an important part of the machine and should be kept with in the dedicated storage container provided at all times. Though you may be familiar with similar equipment, you **MUST** read and understand this manual before operating the machine to help prevent injury or damage.

This manual is intended as a guide for the safe and efficient use of your machine, including procedures for proper operation and maintenance. Use it with all related supplemental books, engine, transmission manuals, and any other manuals supplied by other manufacturers. Related Service Bulletins should also be reviewed to provide information regarding some of the recent changes. If any questions arise concerning this publication or to order a replacement manual, contact your authorized LeeBoy dealer.

This manual contains information that was available at the time of printing and is subject to change without notice.

Section 1 - Safety: Contains general and specific safety guidelines for product and safety label locations.

Section 2 - Information and Specifications: Contains warranty, contact information, machine specification tables, and machine dimensions.

Section 3 - Component Location: Contains overview of major component locations and functions.

Section 4 - Operation: Contains instructions for safe operation and information for optional equipment.

Section 5 - Maintenance: Contains routine maintenance procedures, mechanical adjustments, component replacement and troubleshooting charts for common problems and corrections. (For specific engine maintenance procedures, refer to the engine manufacturer manual.)

Section 6 - Schematics: Contains electrical and hydraulic schematics for product functionality.

Section 7 - Illustrated Parts List (IPL): Contains parts numbers and illustrations for serviceable components.



VT LeeBoy, Inc. is proud to be ISO 9001 certified. The International Standards Organization (ISO) establishes guidelines to ensure that products and services are safe, reliable and of good quality. ISO certifies companies who demonstrate compliance with all aspects of product safety, customer satisfaction, efficiency, environmental stewardship and social responsibility. Our teams work hard to deliver quality industrial machines that exceed customer expectations and we strive for continuous improvement in everything we do. The VT LeeBoy family of companies is committed to total quality management with a strong focus on meeting customer needs.



VT LeeBoy, Inc., is also proud to be an accredited ANAB manufacturer, which is a certification process comprised of quality standards established by the American National Standards Institute (ANSI) and the American Society for Quality (ASQ). The ANSI-ASQ National Accreditation Board plays an important role in ensuring the safety and quality of goods and services, along with protecting the environment.

NOTES

Section 1

SAFETY

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NOTES

This manual provides important information to familiarize you with safe operating and maintenance procedures. Even though you may be familiar with similar equipment, you **MUST** read and understand this manual before operating the LeeBoy Model 8510E Conveyor Paver and follow its instructions when operating the machine.

Safety is everyone's business and our top concern. Knowing the guidelines covered in this section will help ensure your safety, the safety of those around you, as well as proper paver operation.

Keep safety labels in good condition. If safety labels become missing or damaged, replace them with new matching labels. Replacement safety labels are available from your LeeBoy authorized dealer (see **Safety Labels on Section 2**).

You can find more information about occupational health and safety in the paving industry on the internet. A few resources are listed below:

www.osha.gov

cdc.gov


www.asphaltpavement.org


www.safety.fhwa.dot.gov/

LOOK FOR THESE SYMBOLS THROUGHOUT THIS MANUAL. THESE ITEMS ARE EXTREMELY IMPORTANT FOR THE SAFETY OF YOU AND YOUR COWORKERS. READ AND UNDERSTAND THOROUGHLY. HEED THE WARNINGS AND FOLLOW THE INSTRUCTIONS.

 **DANGER** Indicates a hazardous situation which, if not avoided, *will* result in death or serious injury.

 **WARNING** Indicates a hazardous situation which, if not avoided, *could* result in death or serious injury.

 **CAUTION** Indicates a hazardous situation which, if not avoided, *could* result in minor or moderate injury.

 **NOTICE** Indicates a situation which can cause damage to the equipment, personal property and/or the environment, or cause the machine to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the machine or component to function in the manner intended.

Safety

SAFETY PRECAUTIONS



The safety messages that follow have CAUTION level hazards.



Pre-Operation Hazard

Read and understand this Operation Manual before operating or servicing the engine to ensure that safe operating practices and maintenance procedures are followed.

- Never permit anyone to service or operate the machine without proper training.
- Safety signs and labels are additional reminders for safe operating and maintenance techniques.
- Contact LeeBoy or an authorized LeeBoy dealer for additional training.
- Make sure you are aware of all laws and regulations that are in effect for the location in which the paver is operated.
- Make sure you have all necessary licenses to operate the paver.

Poor Lighting Hazard

The work area must be well lit to ensure safe and proper operation.

- Ensure that the work area is adequately illuminated.
- Always install wire cages on portable safety lights.

Tool Hazard

Always use tools appropriate for the task at hand and use the correct size tool for loosening or tightening LeeBoy machine parts.



The safety messages that follow have DANGER level hazards.

Power Lines Hazard

If your machine comes into contact with electric power lines, observe the following:

- Stay in the operators seat.
- Warn other workers to stay away and do not touch any control or any part of the machine.
- If contact can be broken, drive the machine away from the danger zone.
- If contact cannot be broken, stay in the operators seat until told that power is off.
- Failure to observe these directions could result in electrocution or death.

Electrocution Hazard

Disconnect the battery before welding anywhere on the machine.

Suffocation Hazard



Carbon monoxide poisoning is a serious condition that occurs as a result of improper ventilation.

- Never operate the internal combustion engine on this machine in an enclosed area with poor ventilation. Ensure proper ventilation to reduce risk of carbon monoxide poisoning or death.

Exhaust Hazard



All internal combustion engines create carbon monoxide gas during operation and special precautions are required to avoid carbon monoxide poisoning:

- Never block windows, vents or other means of ventilation.
- Always ensure that all connections are tightened to specifications after repair is made to the exhaust system.



The safety messages that follow have **WARNING** level hazards.

Crush Hazard

Keep bystanders away from work area before and during operation.

Modification Hazard

Never modify the LeeBoy machine without the written consent of LeeBoy. Any modification can affect the safe operation of the paver and may cause personal injury or death.

Exposure Hazard



Operators of the paver must be aware of their work environment and the equipment needed to work safely.

- Always wear personal protective equipment, including appropriate clothing, gloves, work shoes, and protection for eyes and ears, as required by the task at hand.

Explosion Hazard



While the engine is running or the battery is charging, hydrogen gas is being produced and can be easily ignited. Keep the area around the battery well-ventilated and keep sparks, open flame, and any other form of ignition out of the area.

- Always disconnect the negative (-) battery cable before servicing the paver.
- Do not start the engine by shorting the starter circuit

or any other starting method not stated in this manual. Only use the starting procedure as described in this manual to start the engine.

- Never charge a frozen battery. Always slowly warm the battery to room temperature before charging.

Fire and Explosion Hazard

- Diesel fuel is flammable and explosive under certain conditions.
- Never use a shop rag to catch fuel.
- Wipe up all spills immediately.
- Never refuel with the engine running.
- Store any containers containing fuel in a well-ventilated area, away from any combustibles or sources of ignition.

Fire Hazard



When operating machinery there is a risk for fire. Always have appropriate safety equipment available.

- Keep a charged fire extinguisher within reach when working in an environment where a fire may occur.
- Have all fire extinguishers checked periodically for proper operation and/or readiness.
- Always read and follow safety-related precautions found on containers of hazardous substances like parts cleaners, primers, sealants and sealant removers.
- Undersized wiring systems can cause electrical fires.

Entanglement/Sever Hazard



Verify there are no people, obstacles or other equipment near the machine before starting the engine. Sound the horn as a warning before starting the engine.



If the engine must be serviced while it is operating, remove all jewelry and tie back long hair before operating or servicing the machine.

- Keep hands, other body parts, and clothing away from moving/rotating parts.

Safety

- Always stop the engine before beginning service. Before maintenance, remove negative battery cable from battery post to ensure vehicle is not operated during maintenance.
- Verify that all guards and covers are properly attached before starting the engine. Do not start the engine if any guards or covers are not properly installed on the paver.
- If you must run the engine during maintenance procedures, make sure you have a helper to keep bystanders clear of the paver and make observations of moving parts as requested by the operator.
- Always turn the start switch to the OFF position after operation is complete and remove the key from the switch. Keep the key in your possession when the paver is not operating.
- Attach a “Do Not Operate” tag near the key switch while performing maintenance on the equipment.
- Never operate the engine while wearing a headset to listen to a radio or music because it will be difficult to hear the warning signals.
- Always start the engine and operate the controls while seated in the operators seat.

Alcohol and Drug Hazard



Never operate the machine while under the influence of alcohol, drugs, or when ill.

Piercing Hazard



High-pressure hydraulic fluid or fuel can penetrate your skin and result in serious injury. Avoid skin contact with high-pressure hydraulic fluid or diesel fuel spray caused by a hydraulic or fuel system leak such as a broken hydraulic hose, fuel injection or high-pressure, common-rail engine line.

- If you are exposed to high-pressure hydraulic fluid or fuel spray, obtain prompt medical treatment.
- Never check for a hydraulic fluid or fuel leak with your hands. Always use a piece of wood or cardboard. Have your authorized LeeBoy dealer or distributor repair the damaged parts.

Flying Object Hazard



Always wear eye protection when cleaning the machine with compressed air or high-pressure water.

Dust, flying debris, compressed air, pressurized water or steam may cause eye injury.

Coolant Hazard



Coolant must be handled properly to ensure operator safety.

- Wear eye protection and rubber gloves when handling engine coolant.
- If contact with the eyes occurs, flush eyes with clean water for 15 minutes.
- If contact with skin occurs, wash immediately with soap and clean water.

Burn Hazard



Some of the machine's surfaces become very hot during operation and shortly after shutdown.

- Keep hands and other body parts away from hot machine surfaces.
- Handle hot components with heat-resistant gloves.

NOTICE

The safety messages that follow have NOTICE level hazards.

Any part that is found defective as a result of inspection or any part whose measured value does not satisfy the standard or limit must be replaced.

Always tighten components to the specified torque. Loose parts can cause damage to the LeeBoy 8510E Conveyor Paver or cause it to operate improperly.

Only use replacement parts approved by LeeBoy. Other replacement parts may affect warranty coverage.



Follow the guidelines of the EPA or other governmental agencies for the proper disposal of hazardous materials such as engine oil, diesel fuel, and engine coolant. Consult the local authorities or reclamation facility.

Dispose of hazardous materials in accordance with all applicable laws and regulations. Never dispose of hazardous materials by dumping them into a sewer, on the ground, or into groundwater or waterways.

Clean all accumulated dirt and debris away from the body of the paver and its components before you inspect the paver or perform preventive maintenance procedures or repairs. Operating a paver with accumulated dirt and debris will cause premature wear of paver components. Accumulated dirt and debris also hinders effective paver inspection.

Retrieve any tools or parts that may have dropped inside of the paver to avoid improper paver operation.

If any alert indicator illuminates during paver operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the paver.

MACHINE PRECAUTIONS

Hot Material Precautions

- Wear protective gear for face, hands, feet, and body when operating the paver.
- Allow machine to cool before repairing or maintaining working components.
- If hot asphalt touches skin, flush area immediately with cold water. DO NOT apply ice to the affected area. DO NOT ATTEMPT TO REMOVE ASPHALT CEMENT with products containing solvents or ammonia. Natural separation will occur in about 48 to 72 hours. Get medical attention as soon as possible.
- DO NOT remove radiator cap, drain plugs, service grease fittings, or pressure taps while engine is hot. Add coolant to the radiator and perform other services only when the engine is stopped and fully cooled.

Hydraulic Systems Precautions

- Ensure all components are in good working condition. Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.
- DO NOT attempt makeshift repairs using tape, clamps or cements. The hydraulic system operates under extremely high pressure and such repairs could cause serious injury.
- Wear proper hand and eye protection when checking for a high pressure leak. Use a piece of wood or cardboard as a back stop to isolate and identify leaks.

WARNING Hydraulic oil under pressure can cause serious personal injury. Check for oil leaks with a piece of cardboard. DO NOT expose hands to possible high-pressure oil. Turn off engine before attempting to tighten oil lines and fittings.

- Escaping pressurized hydraulic fluid has force sufficient to penetrate the skin, which could cause serious personal injury. Ensure all pressure is relieved before disconnecting line, hoses or valves.
- If injury from concentrated high pressure steam or hydraulic fluid occurs, seek medical attention immediately. Injuries resulting from hydraulic fluid penetrating the skin's surface can result in serious infections or toxic reactions.

1

Safety

Refueling Precautions

- Do NOT overfill the fuel tank as overflow creates a fire hazard when spilled on hot components.
- DO NOT smoke when refueling and never refuel when the engine is running. Fuel is highly flammable and should be handled with care. Death or serious injury can occur due to explosion and/or fire.
- DO NOT fill tank to capacity. Allow room for expansion to reduce the risk of fuel expanding and spilling from the tank.
- Tighten fuel cap securely. Should fuel cap be lost, replace it with an original manufacturer's approved cap. Pressurization of the tank may result from use of non-approved cap.
- Prevent fires by keeping the machine clean of accumulated debris, grease, and spilled fuel.
- Use ultra-low sulfur diesel fuel (ULSD) only.

Battery Precautions

- Keep all sparks and flames away from batteries, as gas given off by electrolytes is explosive.
- Acid propelled by an explosion can cause blindness if it comes in contact with eyes. Always wear safety glasses when working near batteries.
- If you come in contact with battery electrolyte solution, wash off immediately. Chemicals can cause burns.
- Always disconnect the battery ground cable before working on the electrical system to avoid injury from spark or short circuit. Electrical shock and burns can occur.
- To avoid electrolyte loss, DO NOT tip batteries more than 45 degrees.

Starting and Stopping Precautions

- Check all around the paver to make sure there are no people working on the machine or in the path of the machine before starting. DO NOT start until area is clear. Death or serious injury can occur to bystanders from being crushed under a moving machine.

- Check brakes, steering and other control devices in accordance with instructions before starting. Be sure both steering levers (joysticks) are in neutral.
- DO NOT bypass the paver neutral-start system.



DO NOT operate the engine in an enclosed area without proper ventilation. Exhaust gasses are odorless and deadly.

Parking Precautions

- Park paver on level ground whenever possible, set steering levers in neutral and lock. Apply the parking brake. Park the paver securely blocked on grades.
- Before leaving operator's station:
 1. Place joysticks in neutral and lock in place.
 2. Turn off all accessories.
 3. Throttle back to idle.
 4. Lower screed to ground.
 5. Shut off engine.
- Remove ignition key when leaving paver parked or unattended.


Operating Precautions

- Always comply with local regulations regarding moving equipment on public roads and highways.
- Know and use the hand signals required for a particular job. Know who has the responsibility for signaling.
- Make sure that all lights and reflectors comply with state and local regulations. Make sure that they are clean, in good working order, and can be seen clearly by all traffic.
- DO NOT stand between the equipment and the truck while the truck is being backed to the paver. Death or serious injury can result from being crushed between the two machines.
- DO NOT ride on attachments.
- Check all gauges and warning instruments for proper operation. If malfunctions are found, shut down the machine and report the problem for resolution. If the failure causes loss of steering control, loss of brake control, or loss of engine power, stop paver motion as quickly as possible. Apply parking brake. Keep the machine securely parked until the failure is corrected or the machine can be safely towed.

- Drive the machine with care. Make sure speed is compatible with conditions. Use caution on rough ground, slopes, and while turning.
- When moving the machine, adjust speed and direction of travel for the terrain and ground conditions present. Always consider adjusting travel speed to match ground conditions.
- Be alert for hazards and obstructions such as ditches, trees, cliffs, overhead power lines, and areas where there is danger of a slide.
- Be aware of and understand the job site traffic flow patterns.
- Obey flagmen, road signs, and signals.
- Watch for bystanders. Never allow anyone to be under the machine during operation. Never allow anyone to reach into the machine during use.
- Operator must know how to use signaling devices when operating paver in traffic conditions. Operator must also understand which circumstances require use of each signal. Use tail lights, slow-moving vehicle signs, and warning beacon as needed when traveling on public roads. It is recommended that you provide an escort on the road.
- DO NOT tow the paver, except to remove from road or to load on trailer.

Poor Visibility

Increasingly, asphalt maintenance equipment is used during less than ideal lighting conditions such as fog and smog or at night. These conditions present safety hazards for workers, bystanders and passing traffic.

 **WARNING** When operating under restricted light conditions, equip the machine with special lighting to prevent serious injury.

While the machine is equipped with a beacon and a work light, contact your authorized LeeBoy dealer for additional lighting packages if working under these conditions.

Use reflective tape on the sides of machines when working at night. Ensure all workers wear reflective safety vests. Use impact barriers (movable or stationary) to protect workers and direct the traffic flow safely away from the work site.

Storage Precautions

- Store paver in an area away from human activity.
- DO NOT permit children to play on or around the stored machine. Serious injury or death can occur from improper/unauthorized use of the machine.
- Make sure the unit is stored on a surface that is firm, level, and free of debris.
- Store the machine inside a building or cover securely with a weatherproof tarpaulin.

Maintenance Precautions

- DO NOT attempt repairs unless trained to do so. Refer to manuals and experienced repair personnel for help.
- Before working on the machine, securely block the machine and any components that may fall. Block any working components to prevent unexpected movement while repairs are being made.
- Always wear safety glasses and other required safety equipment when servicing or making repairs.
- Disconnect battery before working on the electrical system.
- Avoid lubrication or mechanical adjustments while the paver is in motion or while engine is operating.
- If lubrication or mechanical adjustment is necessary, use extreme caution and complete the following steps:
 1. Place Forward/Reverse control in neutral.
 2. Apply neutral lock.
 3. Lower screed to ground.
 4. Shut off engine.
 5. Place equipment in a safe position.
 6. Securely block wheels and tracks.
- Never make repairs on pressurized components such as fluid lines, the gas system, or mechanical items until the pressure has been relieved.
- When servicing or replacing hardened pins, use a brass drift or other suitable material between the hammer and pin.
- Keep brake and steering systems in good operating condition.

Safety

SAFETY DECALS

If your machine is repainted, it is extremely important that you replace all the CAUTION, WARNING and DANGER safety decals in the proper locations. (Figure 1-1) For additional help, refer to the parts listing in Section 7 and contact your authorized LeeBoy dealer to order a replacement kit.

NOTE: It is the responsibility of the owner and operator to make sure that all safety labels are readable and located on the paver as designated by LeeBoy.

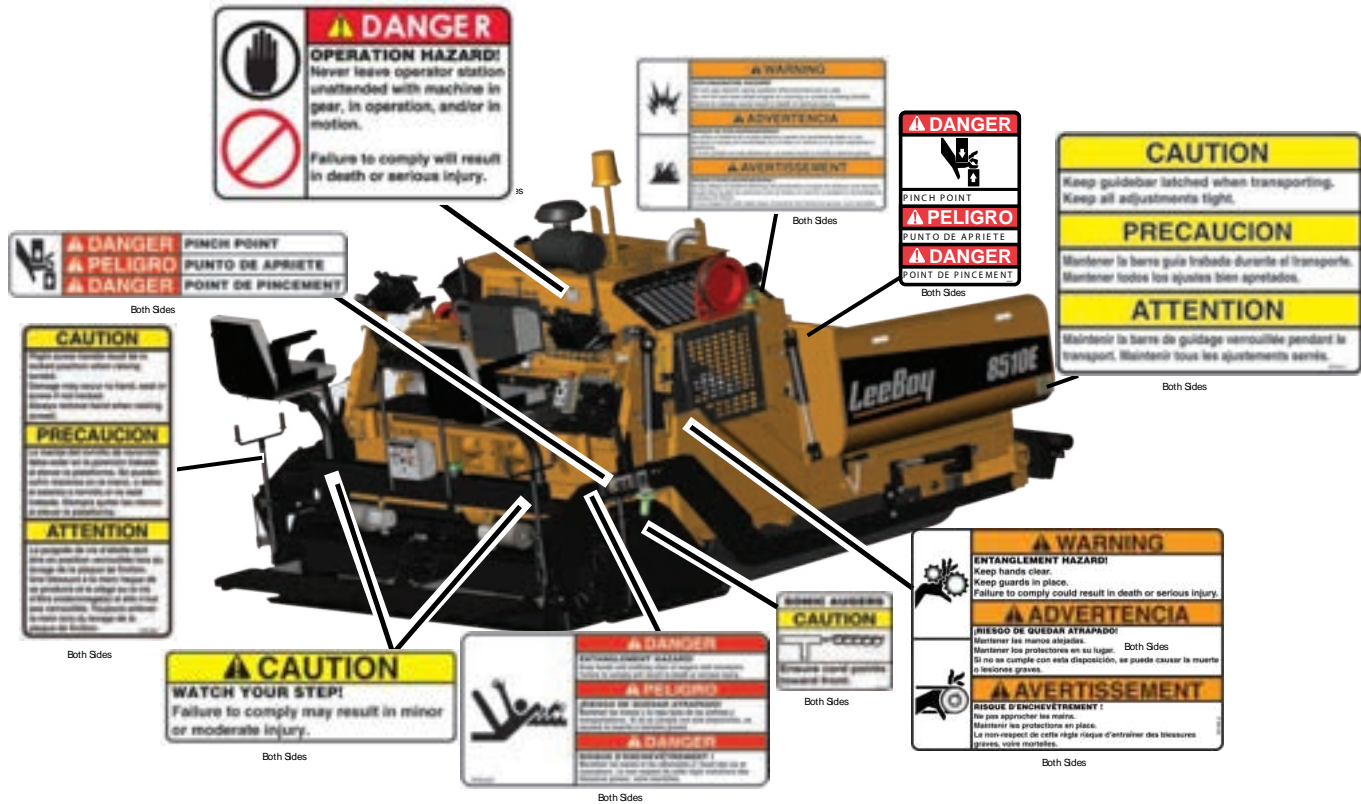


Figure 1-1. Safety Decals Locations

Safety Decals Care

1. Keep safety decals and signs clean and legible at all times.
2. Become familiar with the content and the position of each safety decal. Decals include important information.
3. Replace decals and signs that are missing or become impossible to read.
4. When replacing parts that display a safety decal, ensure that the new part is fitted with a decal as well.
5. Obtain replacement safety decals or signs from your authorized LeeBoy dealer.

Decal Installation (Sticker Type)

1. Be sure that the installation area is clean and dry. Use hot, soapy water to clean the surface where the decal will be applied.
2. Thoroughly dry the surface.
3. Measure and fit decal before removing the paper backing.
4. For decals with no top protection paper, remove the smallest split-backed paper.
5. Align decal over the specified area and carefully press exposed portion into place.
6. Slowly remove the remaining backing and carefully smooth the remaining portion of the decal into place.
7. Small air pockets can be pierced with a pin and smoothed using a piece of the decal backing.

Decal Installation (Top Protected)

1. If the decal has a protective top paper, use hot soapy water on the surface where the decal will be applied. Leave wet.
2. Determine the proper location, remove protective back paper and soak decal in clean soapy water before application. This will help to alleviate air bubbles in the applied decal.
3. Smooth decal into place with a squeegee and check for air bubbles.
4. Small air pockets can be pierced with a pin and smoothed out using a piece of the decal backing.
5. When decal is completely smoothed, carefully remove top paper.

NOTES

Section 2

INFORMATION AND SPECIFICATIONS

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Information and Specifications

LIMITED WARRANTY POLICY

Warranty

Subject to the limitations, exclusions, and claims procedures set forth herein, VT LeeBoy, Inc. warrants (to the first retail purchaser) that this product will be free from substantial defects in materials and workmanship during the warranty period.

If a defect in material or workmanship is found, your authorized LeeBoy Dealer is to be notified during the warranty period. LeeBoy and its authorized Dealer will repair or replace any part or component of the unit or part that fails to conform to the warranty during the warranty period.

The warranty period will begin on the initial start-up, training and delivery of the unit by the Dealer to the customer, and will expire after twelve (12) months following the delivery of the product to the first retail purchaser. (See Dealer for additional warranty.)

Manufacturers' Warranties: Engines are warranted by their manufacturers and may have warranty coverage that differs from that of LeeBoy. LeeBoy does not warrant any engine.

Replacement parts furnished by LeeBoy are covered for the remainder of the warranty period applicable to the unit or component in which such parts are installed.

LeeBoy warrants for three thousand (3000) hours that the original wide-conveyor floor assembly will be free from manufacturer's defects and/or deterioration due to normal operation. This warranty is valid to the original purchaser on all LeeBoy wide-conveyor asphalt pavers. The eligible part for replacement is the wide-conveyor floor assembly.

LeeBoy has the right to repair any component or part before replacing it with a new one.

All new replacement parts purchased by a LeeBoy Dealer will carry a six-month warranty.

This Limited Warranty is governed by the laws of the State of North Carolina.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED, STATUTORY AND IMPLIED WARRANTIES APPLICABLE TO UNITS, ENGINES, OR PARTS INCLUDING WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE OR AGAINST INFRINGEMENT.

Items Not Covered

LeeBoy is not responsible for the following:

All used units or used parts of any kind.

Repairs due to normal wear and tear or brought about by abuse or lack of maintenance of the machine.

Attachments not manufactured or installed by LeeBoy.

Liability for incidental or consequential damages of any type including, but not limited to, lost profits or expenses of acquiring replacement equipment.

Limitations

VT LeeBoy, Inc. has no obligation for:

Any defects caused by misuse, misapplication, negligence, accident, or failure to maintain or use in accordance with the most current operating instructions.

Unauthorized alterations.

Defects or failures caused by any replacement parts or attachments not manufactured by or approved by LeeBoy.

Failure to conduct normal maintenance and operating service including, without limitation, providing lubricants, coolant, fuel, tune-ups, inspections, or adjustments.

Unreasonable delay, as established by LeeBoy, in making the applicable units or parts available upon notification of a service notice ordered by same.

Warranty Responsibility: The warranty responsibility on all engines rests with the manufacturer of the engine.

Warranty and Parts Support: LeeBoy may have support agreements with some engine manufacturers for warranty and parts support. However, LeeBoy does not warrant the engine.

This Limited Warranty sets forth your sole remedy in connection with the sale or use of the LeeBoy product covered by this Limited Warranty.

This Limited Warranty extends only to the first retail purchaser, and is not transferable.

In the event any portion of this Limited Warranty shall be determined to be invalid under any applicable law, such provision shall be deemed null and void and the remainder of the Limited Warranty shall continue in full force and effect.

Other Limitations

IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY OR ALLEGED NEGLIGENCE OR LIABILITY WITHOUT FAULT, SHALL LEEBOY BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFIT OR REVENUE, COST OF CAPITAL, COST OF SUBSTITUTED EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, LABOR COSTS OR CLAIMS OF CUSTOMERS, PURCHASERS OR LESSEES FOR SUCH DAMAGES. IN NO EVENT WILL WARRANTY COMPENSATION, OR OTHER DAMAGES AVAILABLE FROM LEEBOY EXCEED THE PURCHASE PRICE OF THE PRODUCT.

CONTACT INFORMATION

For information regarding parts and repairs about your LeeBoy product, contact your authorized LeeBoy dealer. If your dealer is unable to resolve the problem, contact LeeBoy directly.

Record dealer information in the space provided. For additional information about LeeBoy, please visit: www.leeboy.com.

Sales Representative: _____
Dealership Name: _____
Dealership Address: _____
Dealership Phone: _____

Record of Ownership

Please complete the following information for use if you need to contact LeeBoy for service, parts or literature.

Machine Model Number: _____
Product Serial Number: _____
Date of Purchase: _____

Nameplate

The nameplate contains the model and serial numbers used to identify the machine and its components for parts or service information. Refer to the Engine Operator's Manual for the location of the engine nameplate.

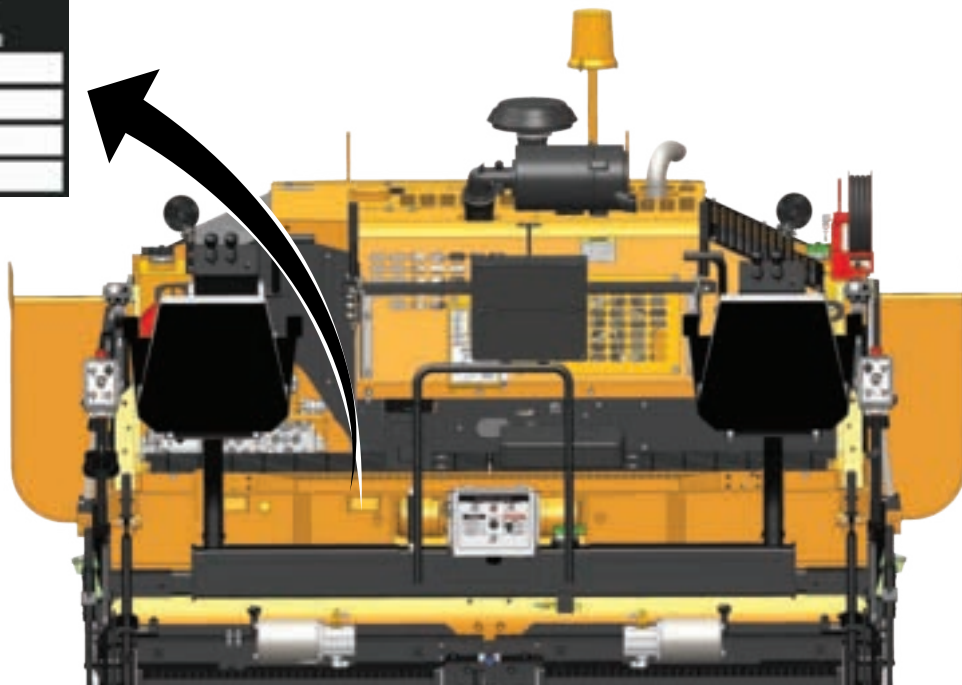
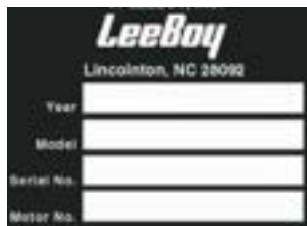


Figure 2-1. Nameplate Location

Information and Specifications

SPECIFICATION CHARTS

The specifications provided in this section include screed weights, dimensions, performance, and torque values for both metric and standard inch fastener.

CAUTION Replace original equipment only with components approved by your LeeBoy dealer.

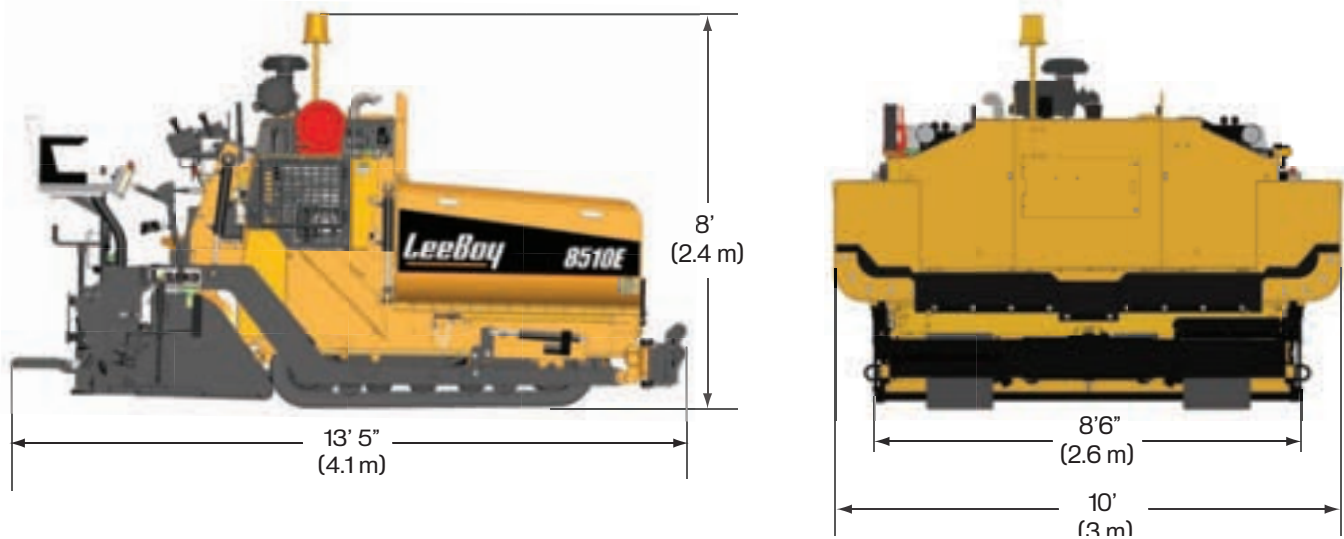


Table 2-1. Machine Dimensions

ITEM	SPECIFICATION
Overall Length	13 ft 5 in (4.08 m)
Overall Height	8 ft (2.6 m)
Overall Width (Hopper Wings In)	8 ft 6 in (2.6 m)
Overall Width (Hopper Wings Out)	10 ft (3 m)
Overall Weight	With Standard Screed: 17,720 lbs (8037.65 kg) With HD Screed: 18,190 lbs (8250.84 kg)
Paving Width	8 - 15 ft (2.4 - 4.6 m)
Tunnel Area	5.5 sq ft (.51 m ²)

Table 2-2. Engine Specifications

ITEM	SPECIFICATION
Manufacturer and Model	Kubota, V3800-CR-TE4B (Tier 4 Final)
Engine Type	Vertical Liquid Cooled Diesel, 4-Cylinder
Bore, Stroke and Displacement	3.9 in (100 mm); 4.72 in (120 mm); 2.30 cu in (3.8 L)
Power Rating	74 HP (55.2 kW)
Intake and Combustion Systems	Turbo-Charged, Direct-Injection
Maximum Speed	2200 RPMs

Information and Specifications

Table 2-3. Performance Specifications

ITEM	SPECIFICATION
Travel Speed	0 - 290 feet per minute (FPM) [0 - 88.4 meters per minute (MPM)].
Paving Speed	0 - 135 FPM [0 - 41.1 MPM]
Recommended Paving RPMs	1800 RPMs
Maximum Paving Depth	6 in (152 mm)

Table 2-4. Electrical Specifications

ITEM	SPECIFICATION
Battery	12 Vdc Maintenance Free, 12 Volts
Cold Cranking Amps (CCA)	1000 CCA
Alternator	12-Volt, Negative-Ground, 60 Amps
Starter Voltage and Type	12-Volt, Negative-Ground

Table 2-5. Lubricant Specifications

ITEM	SPECIFICATION
Engine Oil	15W-40, API, CH-4, CI-4
Hydraulic Oil	All-Weather 32
Torque Hub	90 WT Gear Oil
Grease	Shell Avania EP Grease or Equivalent
Chain Lube	Chain Lube Agent

Table 2-6. Machine System Capacity Specifications

ITEM	SPECIFICATION
Engine Lubrication Oil (Refill Capacity)	15 qts (14.2 L)
Hydraulic Oil Tank	53 gal (151.4 L)
Torque Hubs	32 oz (.35 L) each
Diesel Fuel Tank	18.5 gal (70 L)
Spraydown Tank	7 gal (26 L)
Antifreeze	Glycol-Based, Extended Life; 3.6 gal (13.8 L)

Table 2-7. Hydraulic Pressures Specifications

ITEM	SPECIFICATION
Drive	3625 psi (249.9 Bar)
Conveyors	3400 psi (234 Bar)
Auger	3400 psi (234 Bar)
Track Tensioning Relief	1500 psi (103.4 Bar)
Charge Pressure	350 - 400 psi (24 - 27.6 Bar)

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Information and Specifications

Table 2-8. Hopper Specifications

ITEM	SPECIFICATION
Material Capacity	7.5 Tons (6804 kg)
Height	23 in (584 mm)
Wings	3/8 in (10 mm)

Figure 2-9. Screed Specifications

ITEM	SPECIFICATION		
	Standard Propane Screed	Legend Electric Screed (Option)	815HD Screed (Option)
Screed Weight	2515 lbs (1138.5 kg)		3700 lbs (1678 kg)
Propane Heat	Two (2) 54,000 BTU propane burners on main screed. One (1) 45,000 BTU propane burner on each extension.	Two (2) 1750-watt electric heat elements on main screed. One (1) 1000-watt electric heat element on each screed extension.	Two (2) 54,000 BTU propane burners on main screed. One (1) 45,000 BTU propane burner on each extension.
Main Screed Width	8 ft (2.6 m)		
Screed Extensions	Two (2) 44-inch Hydraulically-Operated WIDTH: 3 ft 8 in (31 cm) each		
Extension Wear Plate Width	6.75 in (17.7 cm)		
Bullnose Radius	1.37 in (34.9 cm)		
Vibration	Two (2) electric vibrators producing 4000 vpm.		
Crown/Valley	Adjustable, 2-inch crown, 1-1/2 inch of valley		

Table 2-10. Generator Specifications

ITEM	SPECIFICATION
Power	10 kW
Voltage	240 Volts
Frequency	60 Hz

TORQUE SPECIFICATIONS

The following tables list torque values for standard hardware. This is a guide for average application involving typical stresses and machined surfaces. Values are based upon physical limitations of clean, plated and lubricated hardware. Under more extreme conditions, individual torque value should be followed. Conversion formulas are provided below:

NOTICE Never substitute fasteners of any kind that are not equal in size and grade to the original equipment.

Conversion	Formula
ft-lb to N•m	$[\text{ft-lb}] * 1.3558 = [\text{N}\cdot\text{m}]$
ft-lb to in-lb	$[\text{ft-lb}] * 12 = [\text{in-lb}]$
N•m to in-lb	$[\text{N}\cdot\text{m}] * 8.8508 = [\text{in-lb}]$

Standard Inch Fasteners

Table 2-11. Torque Specifications For Standard Inch Fasteners

SIZE	THREAD	CAPSCREWS: SAE GRADE 5				CAPSCREWS: SAE GRADE 8			
		TORQUE (ft lb)		TORQUE N•m		TORQUE (ft lb)		TORQUE N•m	
		Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
1/4	20 UNC	8	6	11	8	12	9	16	12
	28 UNF	10	7	14	9	14	10	19	14
5/16	18 UNC	17	13	23	18	25	18	34	24
	24 UNF	19	15	26	20	27	20	37	27
3/8	16 UNC	31	23	42	31	44	33	60	45
	24 UNF	35	26	47	35	49	37	66	50
7/16	14 UNC	49	37	66	50	70	52	95	71
	20 UNF	55	41	75	56	78	58	106	79
1/2	13 UNC	75	57	102	77	106	80	144	108
	20 UNF	85	64	115	87	120	90	163	122
9/16	12 UNC	109	82	148	111	154	115	209	156
	18 UNF	121	91	164	123	171	128	232	174
5/8	11 UNC	150	113	203	153	212	159	287	216
	18 UNF	170	127	230	172	240	180	325	244
3/4	10 UNC	267	200	362	271	376	282	510	382
	16 UNF	297	223	403	302	420	315	569	427
7/8	9 UNC	429	322	582	437	606	455	822	617
	14 UNF	474	355	643	481	669	502	907	681
1	8 UNC	644	483	873	655	909	681	1232	923
	14 UNF	722	542	979	735	1020	765	1383	1037
1-1/4	7 UNC	1121	840	1520	1139	1817	1363	2464	1848
	12 UNF	1241	930	1683	1261	2012	1509	2728	2046
1-1/2	6 UNC	1950	1462	2644	1982	3162	2371	4287	3215
	12 UNF	2194	1645	2975	2230	3557	2668	4823	3617



Information and Specifications

Metric Fasteners

Table 2-12. Torque Specifications for Metric Fasteners

NOMINAL SIZE AND PITCH	CLASS 8.8 [GRADE 5 EQUIVALENT]				CLASS 10.9 [GRADE 8 EQUIVALENT]			
	TORQUE (ft lb)		TORQUE N•m		TORQUE (ft lb)		TORQUE N•m	
	Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
M4 x 0.7	2	2	3	2	3	2	4	3
M5 x 0.8	5	3	7	4	7	5	9	7
M6 x 1	8	6	11	8	11	8	15	11
M8 x 1.25	19	14	26	19	27	20	37	27
M10 x 1.5	37	28	50	38	53	40	72	54
M12 x 1.75	65	49	88	66	93	70	126	95
M14 x 2	104	78	141	106	148	111	201	150
M16 x 2	161	121	218	164	230	173	312	235
M18 x 2.5	222	167	301	226	318	239	431	324
M20 x 2.5	314	236	426	320	449	337	609	457
M22 x 2.5	428	321	580	435	613	460	831	624
M24 x 3	543	407	736	552	777	582	1053	789
M27 x 3	796	597	1079	809	1139	854	1544	1158
M30 x 3.5	1079	809	1463	1097	1544	1158	2093	1570

Hydraulic Fittings

Tightening Flare-Type Tube Fittings

1. Check the flare and flare seat for defects that might cause leakage.
2. Align tube with fitting before tightening.
3. Lubricate connection.
4. Hand tighten swivel nut until snug.
5. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and tighten the swivel nut with the second to the torque shown in the following table:

NOTE: The torque values shown are based upon lubricated connections.

Table 2-13. Torque Specifications for Steel Flare Type Tube Fittings

TUBE SIZE OUTER DIAMETER	NUT SIZE ACROSS FLATS	TORQUE VALUE	
		(LB FT)	(N•m)
3/16	7/16	8	11
1/4	9/16	12	16
5/16	5/8	16	22
3/8	11/16	23	31
1/2	7/8	38	52
5/8	1	54	73
3/4	1 1/4	75	102
7/8	1 3/8	83	113

Determining Proper Torque

The only reliable method of creating a consistently leak-free and long-lasting connection is to ensure the coupling is brought to the proper torque. Using a torque wrench with crowfoot is the best method, but the flats method can be used if a torque wrench is not available.

The most straightforward method of determining the correct torque setting is to multiply the desired torque by the length of the wrench from the center of the handle to the center of the drive (L); divided by the length of the wrench from the center of the handle to the crowfoot center (LA) as shown below:

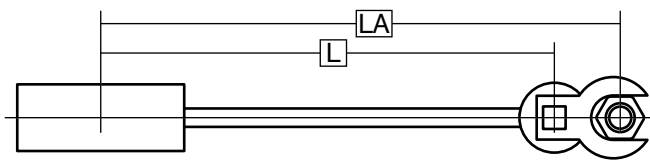


Figure 2-14. Torque Wrench - Crowfoot

NOTICE

The minimum torque values are adequate for sealing most applications. Maximum torque values should never be exceeded.

There are several methods of determining the correct setting on the torque wrench when using a crowfoot. All of the methods involve making the setting proportional to the effective change in length of the wrench multiplied by the desired final torque. The equations and illustration below describe proper measurements. (Use LEGEND under Figure 2-4)

Equations

- Torque setting if the crowfoot is placed in line with respect to the wrench:

$$TS = TD * L / LA$$

or

$$TS = TD * L / (L+E)$$

- Torque setting if the crowfoot is placed at 90° with respect to the wrench

$$TS = TD * L / LH$$

or

$$TS = TD * L / \sqrt{L^2 + E^2}$$

- To estimate the crowfoot size (E)

$$E = \text{Drive Size} * 0.5 + \text{Distance between Drive and Open End} + \text{Wrench Size} * 0.5774$$

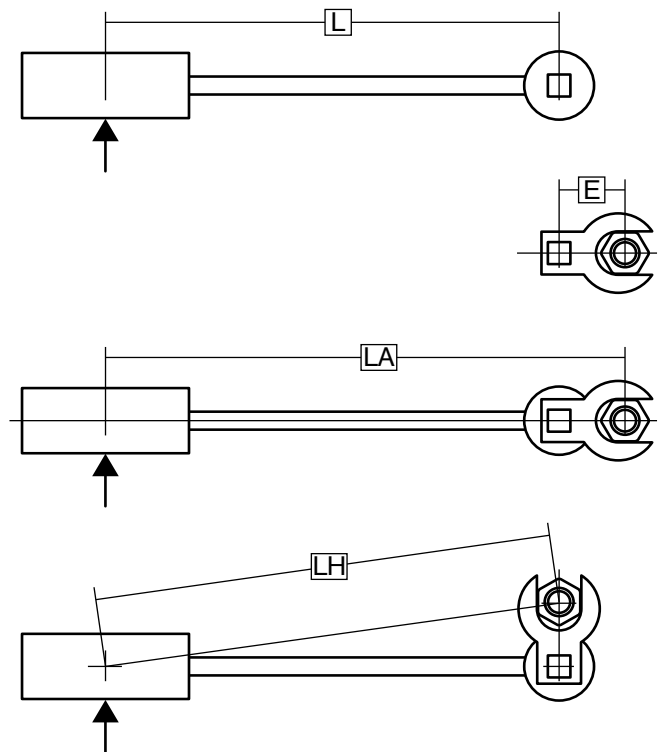


Figure 2-15. Measurements Needed

LEGEND

L = Distance from center of torque wrench handle to the center of socket drive

E = Distance from center of socket drive to the center of crowfoot

LA = Distance from center of torque wrench handle to the center of crowfoot

LH = Distance from center of torque wrench handle to the center of crowfoot, when mounted at 90°

TD = Desired torque at the fitting

TS = Torque setting indicated on wrench

Information and Specifications

Coupling Installation

Use the following steps for proper coupling installation:

1. Determine the correct torque value for your coupling.

NOTE: Only use the torque values specified from the manufacturer. DO NOT use SAE torque recommendations.

2. Ensure the seal face and threads are clean and in good condition. O-Rings should be lubricated with light oil, but threads should be completely dry unless making pipe thread connections (interference seal).

NOTE: Attach the male end of the hose onto the equipment first since it may be necessary to rotate the entire hose assembly to tighten the male threads. Then route the hose into position while avoiding twisting the hose.

3. Tighten the connection (by hand), bringing the seal face into contact and rotating the nut until it stops.
4. Mark a line across the coupling nut and backup hex for the flats method verification of coupling torque (12).
5. Apply a wrench to the backup hex to prevent the coupling and hose from moving while tightening the nut with a torque wrench.

NOTICE Failure to retain the backup hex during installation will also result in additional clamp load force that could cause damage to the seal face.

NOTE: The coupling nut must be in motion for an accurate torque reading. If the nut is stopped before final torque value is achieved, it must be loosened and retightened until the torque is attained while the nut is in motion.

If a torque wrench cannot fit into the coupling area or if it is unavailable, the flats method may be used to ensure that the coupling is properly tightened, as shown in the following tables.

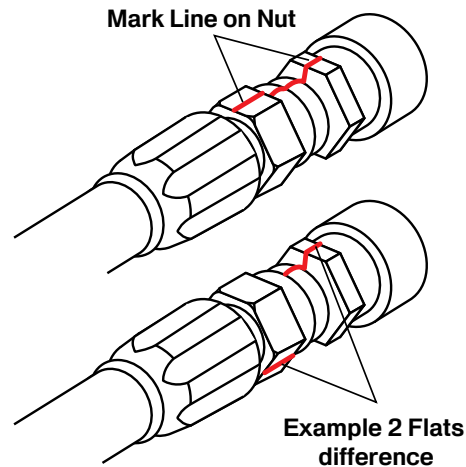


Figure 2-16. Flats Method Tightening

NOTE: The mark placed on the nut and backup hex after tightening by hand should rotate during final tightening according to the table below. The nut and backup hex can then be marked to indicate if the coupling loosens over time.

Table 2-17. Flats Method Values for Selected Terminations

FLATS METHOD VALUES		
Termination Type	Dash Size	Flats
JIC	-4	1.5 - 1.75
JIC	-6	1.0 - 1.5
JIC	-8	1.5 - 1.75
JIC	-10	1.0 - 1.5
JIC	-12	1.0 - 1.5
JIC	-16	.75 - 1.0
JIC	-20	.75 - 1.0
JIC	-24	.75 - 1.0
JIC	-32	.75 - 1.0
JIS	-4	.5 - 1.5

1. Seal faces must be in contact with the fitting fully tightened by hand before marking flats.
2. The flats method is most accurate for the first assembly cycle. For multiple disassembly and assembly cycles, torque values are more reliable.
3. Tightening two (2) flats or more may damage seal faces.

Information and Specifications

Table 2-18. Torque Specifications For US Style Coupling Terminations

JIC, SAE 45°, ORFS, O-RING BOSS, GATES ADAPTERLESS AND MEGASEAL										
DASH SIZE	JIC 37°, SAE 45° & Mega-Seal (Steel)		JIC 37°, SAE 45° & Mega-Seal (Brass)		Flat Face O-Ring Seal (Steel)		SAE O-Ring Boss (Steel) & Gates Adapterless ≤ 4000 PSI		SAE O-Ring Boss (Steel) & Gates Adapterless > 4000 PSI	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
-3									8	10
-4	10	11	5	6	10	12	14	16	14	16
-5	13	15	7	9					18	20
-6	17	19	12	15	18	20	24	26	24	26
-8	34	38	20	24	32	40	37	44	50	60
-10	50	56	34	40	46	56	50	60	72	80
-12	70	78	53	60	65	80	75	83	125	135
-14					65	80			160	180
-16	94	104	74	82	92	105	111	125	200	220
-20	124	138	75	83	125	140	133	152	210	280
-24	156	173	79	87	150	180	156	184	270	360
-32	219	243	158	175						

2

Table 2-19. Torque Specifications for DIN 24, DIN 60, and Inverted Cone Style Coupling Terminations

DIN 24, DIN 60, AND INVERTED CONE			
Size (mm)		Torque (lb ft)	
Light Series Tube OD	Heavy Series Tube OD	Min	Max
6		7	15
8		15	26
10	8	18	30
12	10	22	33
14	12	26	37
15	14	30	52
	16	30	52
18	20	44	74
22	25	59	89
28	30	74	111
	38	74	162
35		133	184
42		148	221

Table 2-20. Torque Specifications for 4-Bolt Flange Connections

4-BOLT FLANGES		
Dash Size	Bolt Size (in)	Torque (lb ft)
-8	0.31	17
-12	0.38	26
-16	0.44	43
-20	0.50	65
-24	0.63	130
-32	0.75	220

- Align faces and tighten bolts (by hand) before applying final torque in a pattern. The seal faces must be parallel with an even bolt tension to seal properly.
- Torque values apply to bolts that are plated or coated in light engine oil.
- Before assembly, lubricate O-Ring with light oil (SAE 10W or 20W).

Information and Specifications

Table 2-21. Torque Specifications for NPTF Dry Seal Pipe Threads

NPTF	
Dash Size	Max Torque (ft-lb)
-2	20
-4	25
-6	35
-8	45
-12	55
-16	65
-20	80
-24	95
-32	120
<ol style="list-style-type: none"> 1. The torque values obtained from tightening pipe threads can vary considerably depending upon thread condition. Adequate sealing can occur at values much lower than the maximum values listed above. Only enough torque to achieve adequate sealing should be used. 2. When using a male tapered pipe thread with a female straight or parallel pipe thread, maximum values are 50% of those listed in the table above. 3. If thread sealant is used, maximum values shown should be decreased by 25%. 	

Table 2-22. Torque Specifications for BSP 30° Inverted Cone and JIS Coupling Terminations

BSP 30° INVERTED CONE AND JIS		
Dash Size	Torque (ft-lb)	
	Min	Max
-2	7	9
-4	11	18
-6	19	28
-8	30	36
-10	37	44
-12	50	60
-16	79	95
-20	127	152
-24	167	190
-32	262	314



Section 3

COMPONENT LOCATION

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NOTES

COMPONENTS OVERVIEW

This section describes the major components for the LeeBoy 8510E Conveyor Paver. Become familiar with these components before operating the machine.



Operator Platform

The operator platform allows easy and convenient access for controls of most paver functions. The paver can be operated from the left or right side depending upon which control panel side is active and best suited to the working conditions. The main control panel slides to either side of the platform, featuring the PV480 digital display controller, work function switches, and a vandalism cover for security and protection. Remote screed control boxes are mounted on each side for screed operator convenience.

Hydraulic System

The hydraulic system includes hydraulic pumps, motor and cylinders that work together for optimum machine component control. Valves regulate the directional, pressure and fluid flow throughout the hydraulic system. The LeeBoy 8510E Conveyor Paver now features hydraulic test ports for ease and convenience in checking pressure for its five main functions.

Engine

The LeeBoy Model 8510E Conveyor Paver is equipped with a Kubota V3800-TIE4F, 74 HP (55.2 kW) diesel engine--a strong performer with the latest technology. The engine is accessible through several access doors, with a front service door where fuel filter components are located for easier access.

Fuel-efficient and durable, this electronically-controlled engine offers the latest in innovative emission solutions that comply with stringent regulations for optimizing combustion and reducing pollution. This Tier 4 Final engine complies with emission requirements established by the U.S. Environmental Protection Agency (EPA) to reduce diesel particulate matter (DPM) and other toxins released into the air.

Advanced emission-control devices and low-sulfur fuel requirements--only Ultra-Low Sulfur Diesel (ULSD) can be used in these engines--combine with after-treatment methods such as Exhaust Gas Recirculation (EGR) and Diesel Particulate Filters (DPF).

The air cleaner removes fine particles such as dust, sand, chaff and lint from the air. As air is taken into the air cleaner assembly, the cyclone action deposits some of the fine particles in the evacuator that is mounted on the bottom of the air cleaner housing. The fuel filter removes contaminants from diesel fuel before it flows into the injection pump where it is injected into the engine combustion chamber.

The radiator mounted in front of the engine cools the engine. As coolant flows through the radiator, airflow from the engine-driven fan removes heat.

Refer to the Engine Operator's Manual accompanying your paver for additional engine information.

Electrical System

The electrical system is powered by one 12-volt battery mounted in the engine compartment. Each battery produces 12 volts DC and maintains 1,000 cold cranking amperes (CCA). An engine-mounted alternator with a minimum of 60 amperes charging capacity keeps the battery charged during normal operation.



Hopper and Conveyors

The hopper wings are hydraulically raised and lowered to open and close the hopper. When fully open, the hopper can hold a payload up to 7.5 tons.

Material in the hopper is moved toward the back of the paver to the screed by conveyors. The conveyor is activated at the operator platform. Its wide, automatic conveyors with a wide hopper design delivers asphalt more evenly and efficiently to produce a smooth asphalt mat.

The hopper's conveyor bed can be lifted hydraulically, allowing easy access to the paver undercarriage and tracks for service and cleaning.

Screed

The screed is the last part of the paver that contacts the paving material. A screed operator usually operates the screed while the operator drives the machine. Paving material is fed from the hopper and conveyor to the augers to the front of the screed. The screed has hydraulically-controlled extensions that move in and out to allow a paving base from 8 - 15 feet. Screed heating is accomplished by propane or the optional electric heating elements mounted directly to the wear plates. The electric vibrators mounted on the main screed frame can be used to increase paving material compaction.



Augers

Right and left augers rotate to move material from the conveyors to the screed. The auger can be manually controlled at the operator platform or by a screed operator on the screed.



The auger can also be controlled automatically when the optional auger/conveyor sonic sensor system is installed and active. The sensor is mounted on the screed endgates and used to monitor and control the pile height of material at the discharge end of the augers.

Torque Hubs

The paver drive system contains two torque hubs that provide power to propel the tracks.

Standard Equipment/Options

Component	
8 - 15 feet (2.44 - 4.57 m) Propane Screed	❖
Electronic Gauge Package	❖
Two-Speed Hydrostatic Drive	❖
Under Auger Cut-Off Gates	❖
Light and Safety Beacon Package	❖
12-inch (30.5 cm) Augers w/Sonic Control	❖
Citrus Tank	❖
Anti-Vandalism Package	❖
Legend Electric Screed	Option
Legend 815HD Electric Screed	Option
Dual Grade Control	Option
Dual Grade and Slope Control	Option
Truck Hitch	Option
Steering Wheel	Option
Roll-Up Curb Attachment	Option
Heated End Gates	Option

MACHINE OVERVIEW

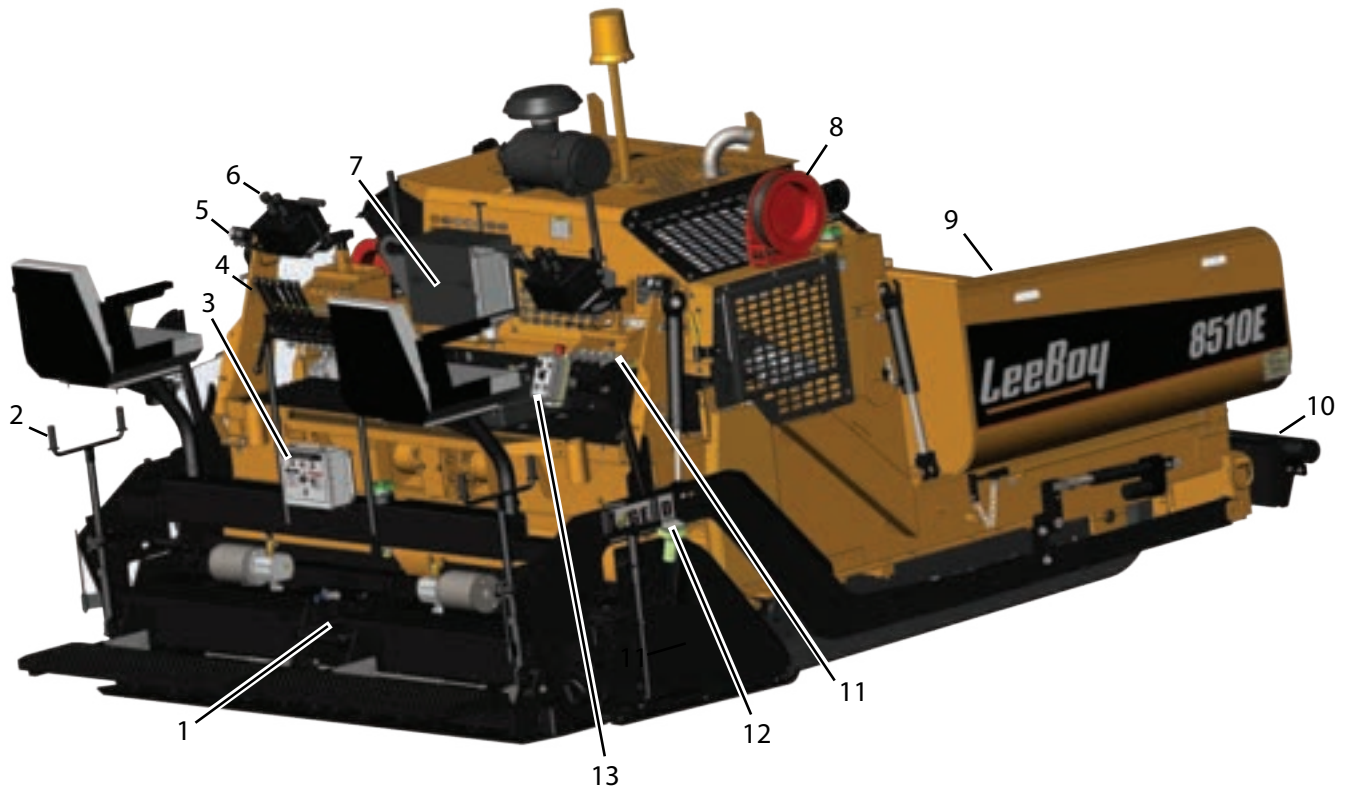


Figure 3-1. Machine Overview

ITEM NO.	CONTROL NAME	FUNCTION
1	Crown and Valley	Adjusts crown and valley while paving.
2	Main Screed Depth Screw	Controls depth of the asphalt.
3	Electric Heat (Option)	Optional electric heat element for screed and screed extensions.
4	Left Hydraulic Controls	Controls for numerous hydraulic functions.
5	Auger Dial	Part of optional sonic auger system (located on each side). Turning dial increases or decreases pile height.
6	Joysticks	Controls travel direction and speed (on each side of machine).
7	Operator Control Console	Machine and operator controls.
8	Spraydown Hose Reel	Contains hose, reel and spraydown wand.
9	Hopper	Hopper wings fold out to hold asphalt material.
10	Adjustable Push Rollers	Manually height adjustment for asphalt truck connection with scrapers to help prevent asphalt build-up.
11	Right Hydraulic Controls	Controls for numerous hydraulic functions.
12	Sonic Auger Sensor	Sensors automatically gauge and regulate material flow to screed extensions.
13	6-Function Remote Screed Control Box	Screed control box on each side features six different screed control functions for screed operator convenience while paving.

OPERATOR CONTROL PANEL

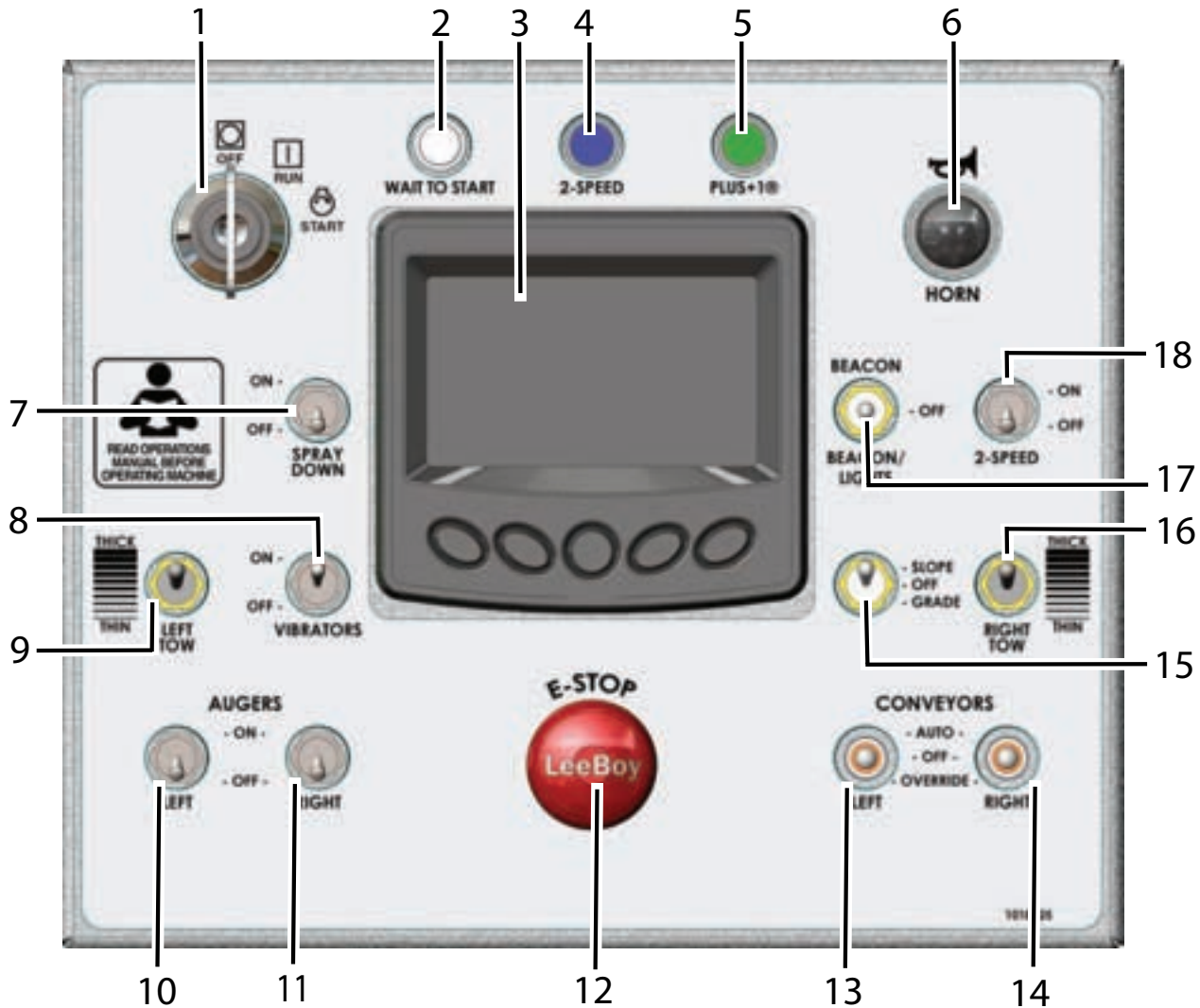


Figure 3-2. Operator Control Console

ITEM NO.	CONTROL NAME	FUNCTION
1	Ignition	Starts and stops engine.
2	Wait to Start	Illuminates for a few seconds during starting procedure. Starter will not engage until this light turns off.
3	PV480 Digital Display	Displays paver setup and calibration information, engine operating information, and engine and paver system fault information.
4	2-Speed Light	Illuminates when the paver is in high gear.
5	Plus One Light	Illuminates when a steering fault is detected.
6	Horn	Sounds horn.
7	Spray Down	Turns spray down system on and off.
8	Vibrators	Turning on the electric vibrators further assists applying asphalt smoothly and more uniform onto the road surface.
9	Left Tow	Sets the thickness of the asphalt.

ITEM NO.	CONTROL NAME	FUNCTION
10	Left Auger Switch	Selects ON or OFF for automatic operation of left auger. For automatic operation, set switch to AUTO, then move the right Auger IN/OUT lever on the Left Hydraulic Controls down to the OUT position (Pages 3-10 and 3-11) to engage automatic auger operation.
11	Right Auger Switch	Selects manual or automatic operation of the right auger. For automatic operation, set switch to AUTO, then move the right Auger IN/OUT lever on the Left Hydraulic Controls down to the OUT position (Pages 3-10 and 3-11) to engage automatic auger operation.
12	E-Stop Button	Immediately stops the paver engine and all electronic functions. Turn clockwise to release E-Stop button.
13	Left Conveyor Switch	Selects automatic or manual mode for left conveyor. MANUAL position provides override.
14	Right Conveyor Switch	Selects automatic or manual mode for right conveyor. MANUAL position provides override.
15	Grade Control Switch	When this switch is in the GRADE position, the power is ON regardless of the joystick position.
16	Right Tow	Sets the thickness of the asphalt.
17	Work Light Switch	Turns work light on and off.
18	2-Speed Gear Switch	Used to change machine speed. Place switch in HIGH position for travel (blue High/Low Gear light will illuminate). Pave only in LOW speed. NEVER pave in high speed as serious injury can result.

STEERING AND SPEED CONTROL BOX



Figure 3-3. Steering and Speed Control Box

ITEM NO.	CONTROL NAME	FUNCTION
1	Left and Right Steering Joysticks	Joystick control speed and direction forward or reverse. The farther pushed in either direction, the faster the speed. Pull up on the locking collar to move joysticks forward or reverse.
2	Joystick Neutral Lock Collar	Locks the Forward/Reverse joystick in neutral. Lift up on the locking collar to move joysticks forward or reverse.
3	Run/Stop Switch	Controls stopping and activating/deactivating operator control station. When set to STOP, control station is deactivated, parking brake applied, and machine will not move. When set to RUN, control station is activated, parking brake is released, and machine resumes previously set speed.

LEFT HYDRAULIC CONTROLS

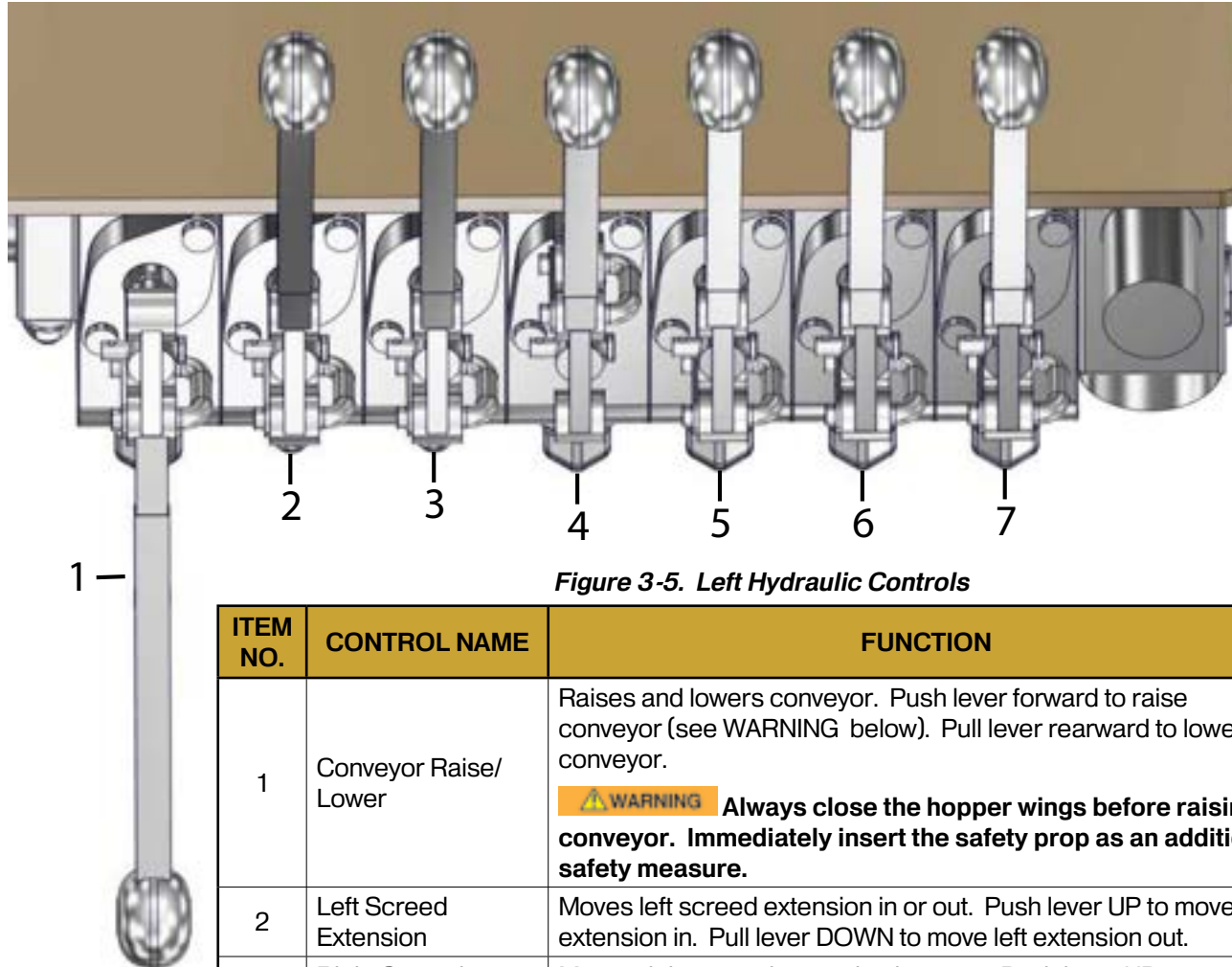
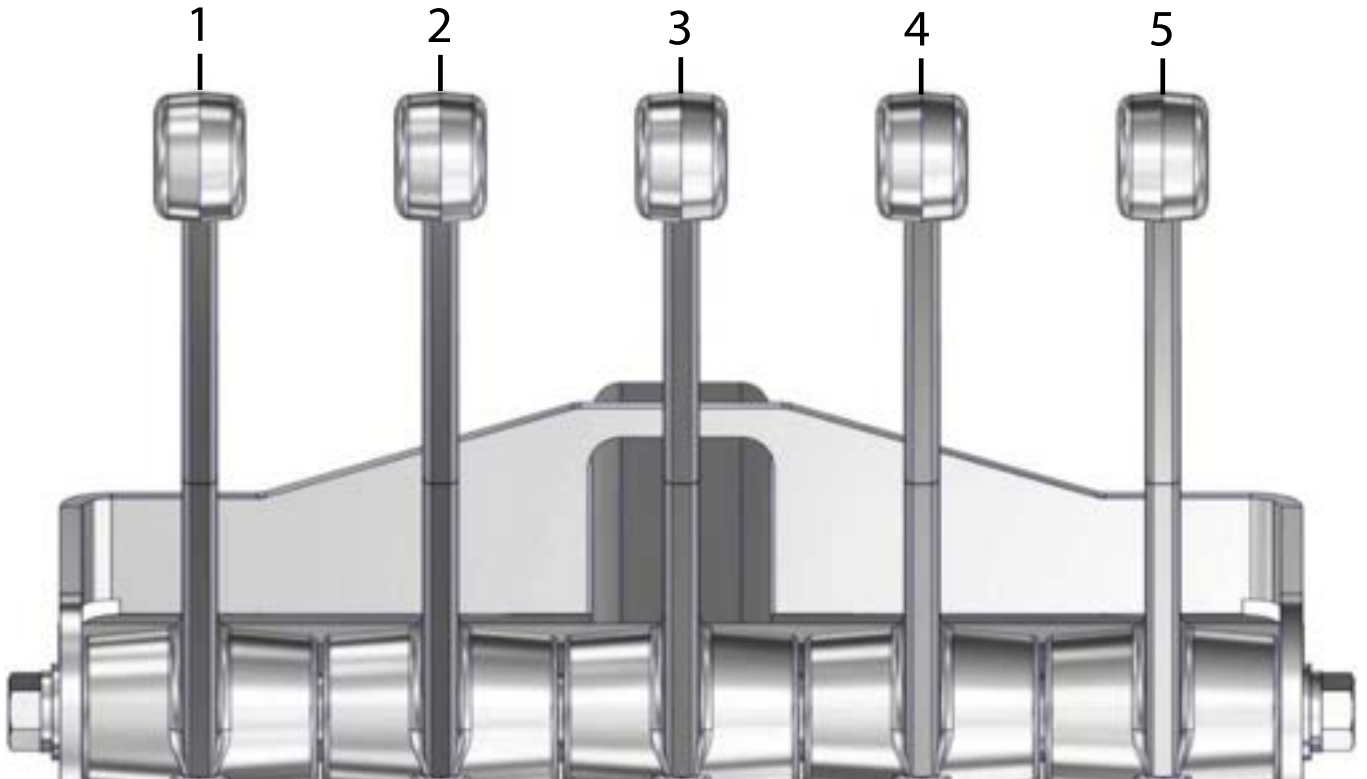


Figure 3-5. Left Hydraulic Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Conveyor Raise/Lower	<p>Raises and lowers conveyor. Push lever forward to raise conveyor (see WARNING below). Pull lever rearward to lower conveyor.</p> <p>WARNING Always close the hopper wings before raising conveyor. Immediately insert the safety prop as an additional safety measure.</p>
2	Left Screed Extension	Moves left screed extension in or out. Push lever UP to move left extension in. Pull lever DOWN to move left extension out.
3	Right Screed Extension	Moves right screed extension in or out. Push lever UP to move right extension in. Pull lever DOWN to move right extension out.
4	Screed Float	<p>Raises or floats screed. Push lever UP to lower screed in FLOAT position. Once pushed UP, lever locks in FLOAT position. Pull back out of FLOAT and push lever UP again to raise screed.</p> <p>NOTICE Screed must be in FLOAT position when paving.</p>
5	Left Cut-Off Gate	Opens and closes left cut-off. Push lever UP to open left cut-off. Pull lever DOWN to close left cut-off.
6	Right Cut-Off Gate	Opens and closes right cut-off. Push lever UP to open right cut-off. Pull lever DOWN to close right cut-off.
7	Hopper Wings In/Out	<p>Moves hopper wings in or out. Push lever up to the OUT position to open hopper wings. Pull lever down to the IN position to close hopper wings in.</p> <p>NOTE: Hopper wings will not close unless the hopper is in lowest position.</p> <p>NOTICE Never close the hopper wings when hopper is full of asphalt.</p>

RIGHT HYDRAULIC CONTROLS



3

Figure 3-4. Right Hydraulic Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Screeed Float Lever	Raises or floats the screed. Push lever up to lower screed into the float position (locks into float). Push the lever up again to raise the screed. NOTE: Screeed must be in the FLOAT position when paving.
2	Left Cut-Off Lever	Opens (push up) and closes (push down) left cut-off gate.
3	Right Cut-Off Lever	Opens (push up) and closes (push down) right cut-off gate.
4	Side Wings Lever	Opens and closes hopper wings. Push the lever to fold in hopper wings. Push the lever down to open hopper wings.
5	Right Extension Lever	Retracts and extends the right screed extension. Push lever down to extend screed extension. Push lever up to retract screed extension.

SCREED OPERATION CONTROLS

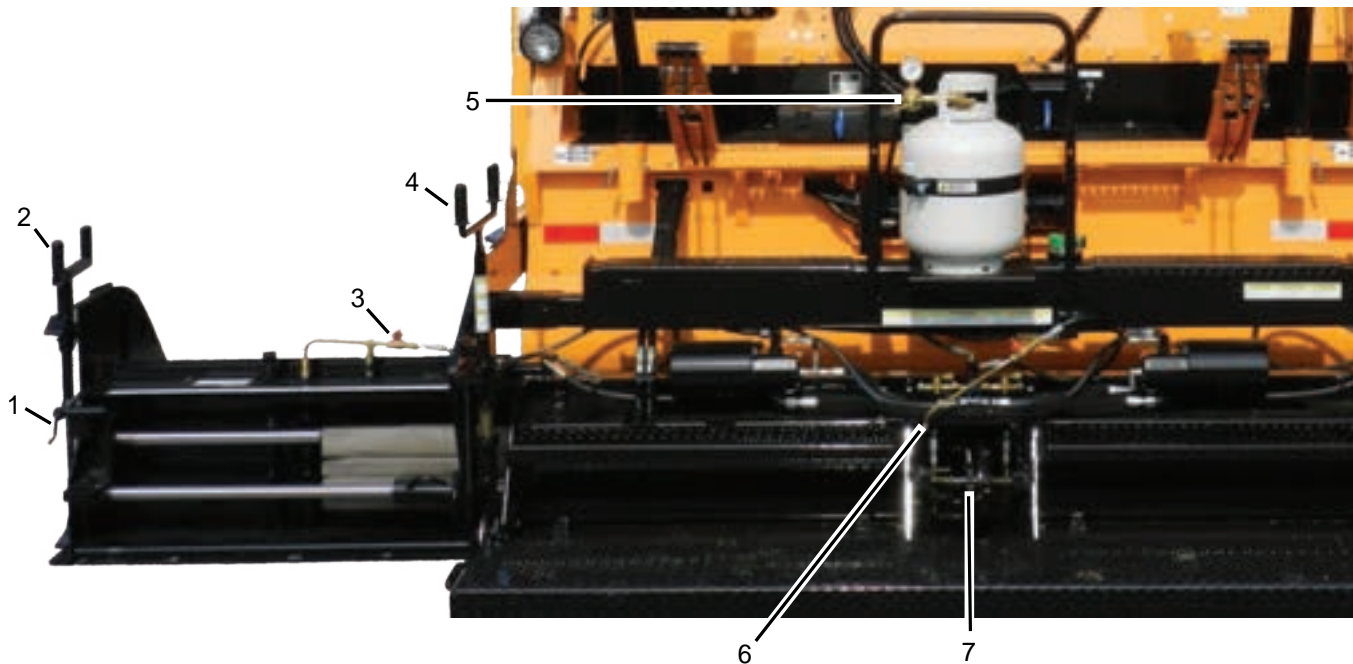


Figure 3-6. Screed Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Tilt Screw	Adjusts the tilt of the end gate.
2	Endgate Depth Screw	Controls the depth of the end gate.
3	Screed Extension Burner	Ignites and heats the screed extension.
4	Flight Screw	Controls the depth of the asphalt.
5	Propane Tank Controls and Pressure Gauge	Controls for the propane gas tank and gas pressure gauge.
6	Main Screed Propane Heat Ignitor	Ignites and heats the main screed and extensions.
7	Crown and Valley	Adjusts for positive crown or negative valley in wear plate.

BURNER CONTROLS

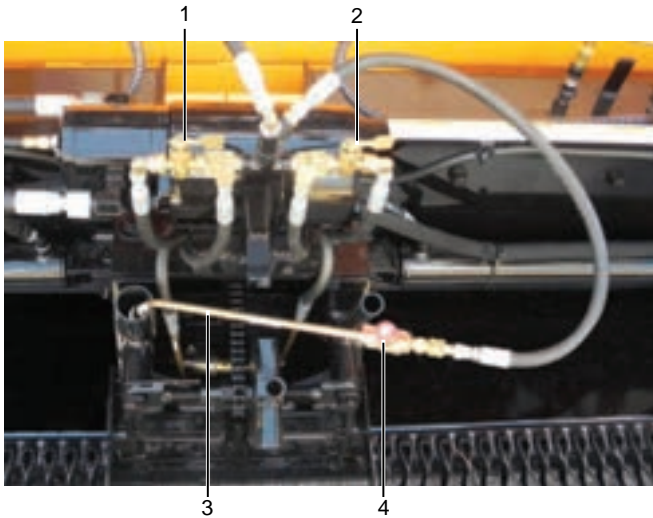


Figure 3-7. Main Screed Burner Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Left Burner Valve	Controls flow of propane to left screed burner.
2	Right Burner Valve	Controls flow of propane to right screed burner.
3	Burner Ignitor	Used to light burners.
4	Burner Ignitor Valve	Controls flow of propane to ignitor.

Propane Tank Controls



Figure 3-8. Propane Tank Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Propane Pressure Regulator Valve	Regulates propane line pressure.
2	Propane Pressure Regulator Gauge	Indicates propane line pressure.
3	Propane Tank Open/Close Valve	Opens and closes propane pressure.

3

REMOTE SCREED CONTROLS

The remote screed extension control boxes is an added convenience for screed operators. A remote screed control box is mounted on each side of the paver.

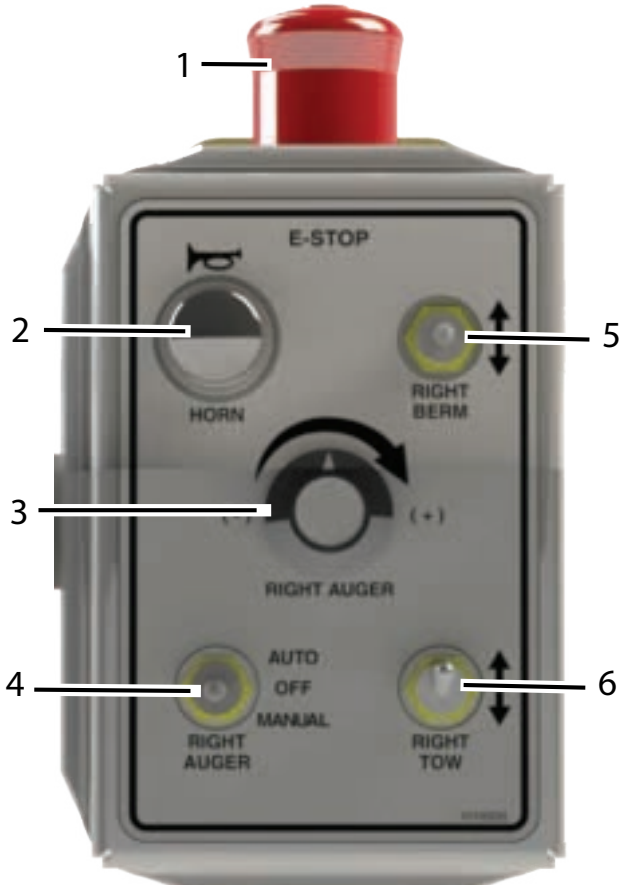


Figure 3-9. Screed Control Box (Right Box Shown)

ITEM NO.	CONTROL NAME	FUNCTION
1	Emergency Stop (E-Stop) Button	Immediately stops the paver engine and all electronic functions. Turn clockwise to release E-Stop button.
2	Horn	A horn button on the remote screed control box is an added safety feature for screed operator use when needed to alert others.
3	Auger Speed Dial	Controls auger speed. Turn the dial clockwise to increase speed; turn the dial counterclockwise to decrease speed.
4	Auger Speed Dial	Controls auger speed in AUTO or MANUAL mode.
5	Berm Switch	Raises and lowers the berm attachment if equipped with this option.
6	Tow Switch	Sets the thickness of the asphalt and controls the electric flight screws.

ELECTRIC HEAT (OPTION)

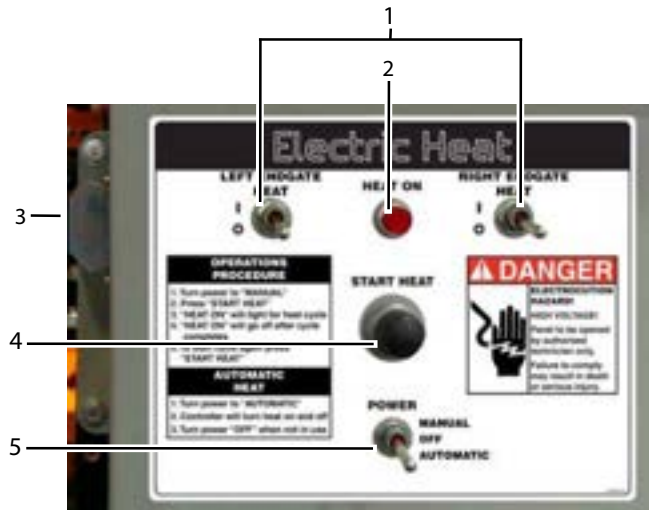


Figure 3-10. Electric Heat Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Left and Right Endgate Switches	OPTION: These switches do not function if not equipped with the heated endgate option.
2	Heat On Light	Illuminates and stays on as long as the element is heating the screed plates (approximately 20 minutes).
3	Circuit Breaker	Breaker will “trip” if electrical issue occurs.
4	Start Heat Button	After turning on the power, press the Start Heat button. Once the heating function has been enabled, the distribution/control box will apply electrical power to the heating elements and the heating cycle will begin. The heating cycle is timed to optimize the heat generated at the screed plates. Press the button again to reheat the screed if needed.
5	Power Switch	Turns the electric heat system on and off.

NOTES



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RECEIVING THE MACHINE

The LeeBoy Model 8510E Conveyor Paver is equipped with hydrostatic-driven tracks that propel the paver using friction-controlled joysticks. The amount of steering is controlled by the amount of joystick movement and the speed of the paver. Engine RPM is set using the PV480 digital display unit on the operator control panel. Always set throttle before starting to pave.

⚠ DANGER Only authorized personnel who are properly trained should operate the LeeBoy Model 8510E Conveyor Paver.

Although the machine has been checked thoroughly by the manufacturer, road hazards or other factors during transport may result in damage. Inspect machine for any damage during transport. Contact your authorized dealer immediately if any damage has occurred.

Initial and Daily Inspection

The following inspection is essential and should be performed before the initial start-up. Visually inspect the unit to check its general condition and for familiarization. Continue with a check of the systems and components shown in **Table 4-1** below:

Table 4-1. Initial Inspection

INSPECT	PROCEDURE
Engine Oil Level	Maintain oil level between ADD and FULL marks on dipstick.
Fuel Tank	Check for adequate fuel supply. Fill if needed. Always fill tank at end of the day to prevent condensation in the tank.
Hydraulic Tank	Check the tank for oil level and leaks.
Radiator	Check coolant level.
Battery	Ensure all cables are tight and clean. Check for corrosion on the battery terminals.
Air Cleaner	Check the air filter element and hose connections. Air cleaner has both a primary and secondary filter.
Drain Plugs	Make sure plugs are inserted and tight.
Engine Belt	Check for proper belt tension.
Grease Fittings	Ensure fittings are greased and in good working order.

Hopper Cylinder Valve Lock

The hopper cylinder valve can be used to lock the hopper wings when they are open or closed. **(Figure 4-1)** Turn the valve counterclockwise to unlock the hopper wings and clockwise to lock the hopper wings.



Hopper Cylinder Lock Valve

Figure 4-1. Hopper Cylinder Lock Valve

⚠ CAUTION Ensure screed lock pins and hopper cylinder valves are unlocked before extending or retracting the screed or hopper wings.

Screed Lock Pins

Screed lock pins (one on each side) adds additional safety and stability during operation and transport.

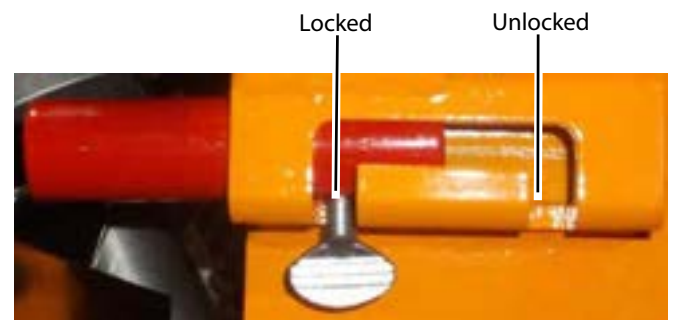


Figure 4-2. Screed Lock Pin

Figure 4-2 shows lock pin in the locked position.

To lock and unlock the screed lock pins:

- Loosen thumb screw, lift up and slide to the desired locked or unlocked position.
- Lower into desired position and retighten thumb screw.

START-UP PROCEDURE

⚠ DANGER DO NOT leave the operator station unattended while the paver is in gear or in motion. Operator must return joysticks to the neutral position and turn the RUN/STOP switch to the STOP position before leaving the operator platform.

⚠ CAUTION Verify there are no people, obstacles or other equipment in the machine's path before starting the engine.

1. Clear auger and conveyors before starting engine.
2. Position joysticks to NEUTRAL (center).
3. Insert key into the ignition and turn clockwise to the START position.

NOTICE DO NOT hold the starter longer than 10 - 15 seconds. If the engine does not start, allow the starter to cool two or three minutes.

⚠ WARNING The engine is equipped with an electric heat starting system. Using start additives, such as ether, is not recommended as it could cause an explosion resulting in severe injury and/or engine damage.

4. Allow engine to warm up a few minutes before moving paver for more efficient operation. In cold weather let hydraulic oil warm to 60° (16°C) before moving.
5. Set engine RPM using the throttle up and down buttons on the PV480 digital display Engine Screen. **(Page 4-5)** Set throttle at 2000 RPMs or higher. This runs the engine hot enough for clean operation and allows regeneration (see next section).

Stopping the Engine

1. Move joysticks to the NEUTRAL position.
2. Reduce engine to 1300 RPMs
3. Turn ignition key on instrument panel counterclockwise to the OFF position and remove key.

NOTE: If for any reason the engine does not shut down when key is turned off, push in the E-Stop button.

DPF REGENERATION (REGEN)

When starting the engine, a sequence of screens will display on the PV480 digital display unit on the operator console. **(Page 4-5)** First you will see "booting" notated in the upper left corner, followed by a logo display, then the gauge screen is displayed. The lit status icons at the top of the screen will disappear momentarily.

This digital unit displays operational information, diagnostics and other controls for the machine. It is particularly important that the operator understand DPF regeneration.

DPF regeneration is the term given to the cleaning process where the exhaust temperature is raised in an attempt to safely burn off any soot and undesired combustion gas captured in the Diesel Particulate Filter (DPF) in the exhaust system. When the DPF filter reaches a soot saturation level between 25 - 45 percent, the onboard engine ECU (Engine Control Unit) will activate a regeneration cycle.

NOTICE To reduce the amount of particulate matter and maximize efficiency, use API-CJ4 (or ACEA-E9 European equivalent) engine oil.

During normal operation, the DPF is cleaned automatically. Under certain conditions, the operator may have to instruct the control system to perform the cleaning process.

The DPF icon indicates the level of soot build-up on a scale of Level 0 - 5 and changes color. Regeneration will occur automatically at Level 1 - 2.

It is important to perform a parked, manual regeneration BEFORE the engine reaches as high as Level 4. If the DPF reaches Level 4 - 5, non-warranty factory assistance from the engine manufacturer is required.

The engine speed will increase during regeneration and there may be a noticeable sound difference. Once regeneration is complete, the engine will return to normal idle speed.

Once the DPF cycle has been activated, it is important not to shut off the engine as the regeneration cycle will fail and could possibly damage the engine. If the regeneration cycle fails, the ECU may attempt a second regeneration depending upon how blocked the filter has become. If the system does not allow a second regeneration, this means the filter is blocked more than 80 percent and needs to be cleaned or replaced.

PV480 POWERVIEW DISPLAY

Gauge Screen

The gauge screen (**Figure 4-3**) displays five (5) dial gauges and three (3) digital gauge options.



Figure 4-3. Gauge Screen

- 1 - Engine Speed/RPM
- 2 - Engine Coolant Temperature
- 3 - After Treatment DPF Outlet Gas Temperature
- 4 - Electrical Potential Voltage
- 5 - Actual Engine Torque Percentage
- 6 - Oil Pressure - Lamp Only
- 7 - Fuel Level
- 8 - Engine Total Hours of Operation

Set Points and Throttle Speed

Used to select preset engine throttle speeds.

Use the first button to select set points while not in the menu. Select the desired throttle speed using the keypad buttons. The throttle speed selections are: IDLE (1300 RPMs), PAVE (1800 RPMs), and TRAVEL (2200 RPMs). (**Figure 4-4**)



Figure 4-4. Engine Throttle Speeds Screen

- 1 - IDLE (1300 RPMs)
- 2 - PAVE (1800 RPMs)
- 3 - TRAVEL (2200 RPMs)

NOTE: LeeBoy sets the generator for optimum performance at the 1800 RPMs. It is recommended that you use the 1800 RPM preset. The generator will perform at other lower RPM levels, but not at peak levels.

DPF Commands

With "DPF commands" use button 5 to inhibit a Parked Regen Request.

WARNING Parked Regen should be carried out as soon as possible after a Parked Regen Request has been given. Failure to do so may result in damage to the engine.

Soft Keys (Buttons)

Your Soft Key choices (**Table 4-2**) are associated with the throttle source. Some throttle sources may not be present on your model.







Table 4-2. Soft Key Choices

Status Icon	Description
	Set Points – Displays the engine-requested RPM/speed quick set points
	DPF Commands – Displays the Diesel Particulate Filter (DPF) command to access the Un-inhibit Regen and Inhibit Regen
	Request Regen – Sends message to Engine Control Unit (ECU) to start regenerating the DPF when prompted by engine ECU
	Stop Regen – Sends message to ECU to stop regenerating the DPF (should not be used unless necessary)
	Freeze Frame – Requests the freeze frame data from the ECU when faults are present
	Main Menu – Two full pages that list 5 action items to choose from: Gauges, Diagnostics, System Info, Lamp Info, User settings
	Down – Navigates the cursor (>) downward through a list
	Up – Navigates the cursor (>) upward through a list
	Select – Enters the action item next to the cursor in a list. Also used with the Main Menu soft key to get back to the Main Menu from any screen
	Deselect – Closes pop up messages
	Plus – Increase the engine requested speed
	Minus – Decrease the engine requested speed
	Speed/Throttle – Opens the speed/throttle adjustment command and enables the Plus and Minus soft keys (+/-)

Status Icons

The Status Icons (**Table 4-3**) are color-coded and light up when communicating to the operator. Pay close attention to any Status Icon and its color.

Table 4-3. Status Icons

Status Icon	Description
	<p>Check Engine – When this lamp is illuminated, a fault exists within the control system. The engine may continue to operate, however, it is unable to perform DPF cleaning either automatically or manually.</p> <p>WARNING Take action immediately to correct the fault.</p>
	<p>Parking Break Switch – The park icon displays when the parking brake is applied.</p> <p>NOTE: To perform a Parked REGEN, the “P” and “N” lamps must be illuminated.</p>
	<p>Transmission Neutral – The neutral icon displays when the transmission is in neutral.</p> <p>NOTE: To perform a Parked REGEN, the “P” and “N” lamps must be illuminated.</p>
	<p>Engine Exhaust High Temperature Lamp – This lamp illuminates during the REGEN cycle to warn of high exhaust temperatures. This lamp will turn off when normal operating temperatures are reached after the REGEN cycle.</p> <p>WARNING Be sure engine exhaust is away from any potentially combustible materials when this is illuminated.</p>
	<p>Diesel Particulate Filter Lamp – A Solid Lamp is the initial warning that soot levels are rising in the DPF. A Flashing Lamp indicates a DPF REGEN is needed (on some systems, the lamp will become RED when flashing). The lamp will turn solid again when a REGEN is initiated.</p> <p>Any time the lamp begins flashing, the operator should increase the loading on the engine so that regeneration is possible.</p> <p>WARNING If increased load does not cause an automatic REGEN to occur, the operator should immediately perform a Parked, Manual REGEN (see reverse side for instructions).</p>
	<p>DPF Regeneration set to Inhibit – The user may choose to inhibit the REGEN if conditions are too hazardous for high exhaust temperatures. When this lamp is illuminated, a REGEN cannot be performed and soot levels will continue to rise.</p> <p>WARNING Unless hazardous conditions exist, the REGEN Inhibit switch and this lamp should remain off.</p>

Glossary of Terms and Acronyms

CAN - Controller Area Network

DM1 - Diagnostic Message 1, Active Diagnostic Trouble Codes

DM2 - Diagnostic Message 2, Previously Active Diagnostic Trouble Codes

DM3 - Diagnostic Message 3, Diagnostic Data Clear/Reset for Previously Active DTCs

DM4 - Freeze Frame Parameters

DPF - Diesel Particulate Filter

DTC - Diagnostic Trouble Code

ECU - Engine Control Unit

FMI - Failure Mode Identifier

PGN - Parameter Group Number

SPN - Suspect Parameter Number

Operation

Main Menu

Press the Main Menu (☰) soft key to view the menu action items. **(Figure 4-5)** Scroll through the Main Menu list using the UP/DOWN soft keys to maneuver the cursor (>) to the action item.

- Gauges (Main Menu default screen)
- Diagnostics
- System Info
- Lamp Info
- User Settings



Figure 4-5. Main Menu Screen

Gauges

The Gauge Screen **(Figure 4-6)** is the Main Menu default screen (home). Open it from any screen by pressing the Main Menu (☰) soft key and then the Select (○) soft key.



Figure 4-6. Gauge Screen

Diagnostics

Scroll through the Main Menu list using the UP/DOWN soft keys and stop the cursor (>) next to the action item Diagnostics. Press the Select () soft key. The screen (Figure 4-7) displays the following items:

- Active Diagnostics
- Logged Diagnostics



Figure 4-7. Diagnostics Screen

Active Diagnostics


Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Active Diagnostics. (Figure 4-8) Press the select () soft key. The screen displays active warnings or faults from the ECU. Each diagnostic is shown with the appropriate Suspect Parameter Number (SPN) and Failure Mode Indicator (FMI), Text Description (if available), and the ID/Name of the device that transmitted the DM1 message. Press the UP/DOWN soft keys to reach the next diagnostic in the list.



Figure 4-8. Active Diagnostics Screen

4

Logged Diagnostics

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Logged Diagnostics. **(Figure 4-9)** Press the select () soft key. The screen displays the controller requests DM2 (stored trouble codes, not active), warning or faults from the ECU. Each diagnostic is shown with the appropriate information:


- Suspect Parameter Number (SPN)
- Failure Mode Indicator (FMI)
- Text Description (if available)
- ID/Name of the device that transmitted the DM1 message



Figure 4-9. Logged Diagnostics Screen

NOTE: Select the Freeze Frame Button to request the freeze frame data from the ECU when faults are present.

System Info

Scroll through the Menu list using the UP/DOWN soft keys and stop the cursor (>) next to the action item System Info. Press the select () soft key. **(Figure 4-10)** The screen displays the following items:

- Engine Model
- Engine Serial Number
- ECU Software ID
- Fuel Rate
- Time since last active regen




Figure 4-10. System Info Screen

Press the UP/DOWN soft keys to display a screen with application and configuration information. **(Figure 4-11)**



Figure 4-11. Application and Configuration Information Screen

Lamp Info

Scroll through the Menu list using the UP/DOWN soft keys and stop the cursor (>) next to the action item Lamp Info. Press the select () soft key.

This screen shows the Diesel Particulate Filter (DPF) Lamp symbols and provides a description and cautionary information for each symbol. Use the UP/DOWN soft keys to scroll to each symbol. (Figures 4-12 to 4-15)



Figure 4-12. High Exhaust Temperature Due to DPF Regeneration Symbol Screen



Figure 4-13. Needs Regenerating Screen



Figure 4-14. Machine Inhibiting DPF Regeneration Screen



Figure 4-15. Parked Regeneration Overview Screen

User Settings

Scroll through the Menu list using the UP/DOWN soft keys and stop the cursor (>) next to the action item User Settings. Press the select () soft key. The screen displays the following action items:

- Colors
- Brightness
- Language
- Units
- Date
- Time

Screen Color

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Colors. (Figure 4-16 and 4-17) Set your preference for day or night vision by using the +/- soft keys.



Figure 4-16. Set Night Vision Color Preferences Screen



Figure 4-17. Set Day Vision Color Preferences Screen

Screen Brightness

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Brightness. (Figure 4-18) Set the brightness of the backlight by using the +/- soft keys.



Figure 4-18. Set Brightness Of Backlight Screen

Language

Use the UP/DOWN soft keys and stop the cursor (.) next to the action item Language. **(Figure 4-19)** Set your language preference using the +/- soft keys.

- English
- French
- German
- Spanish
- Italian
- Japanese



Figure 4-19. Set Language Preferences Screen

Units

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Units. **(Figure 4-20)** Set your unit preference using the +/- soft keys.

- USA Standard
- Metric kPa
- Metric Bar



Figure 4-20. Set Unit Preferences Screen

Date and Time Setting

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Date or Time. **(Figure 4-21)** Press the select () soft key to initiate change to the month value. Use the (+/-) soft keys to increment or decrement the number. Use the DOWN arrow to reach the day value and year value and the +/- soft keys to make changes.

NOTE: A reboot is required for changes to the Date Setting to take effect.



Figure 4-21. Time Setting Screen

Regeneration Messages

Parked Ready Regen

Machine is in an operating condition such that the DPF can regenerate. (See **Section 5 Troubleshooting** for a complete listing of fault codes.)

Table 4-4. Parked Ready Regen

Action	Description
Cancel Regen	Communicates with the engine that Regen is not wanted or is unsafe to regenerate at this time.
Regen Mode Inhibit	Communicates with the engine that Regen is not wanted or is unsafe to regenerate at this time.
Request Regen	Communicates with the engine that Regen is safe to regenerate at this time.

Regen Screens and Messages

The operator may experience a Regen Caution message on the controller screen **(Figures 4-22 to 4-28)**. The message requires an active response by the operator, so it is important that the operator reads the entire message as it may display instructions.



Figure 4-22. Regen Caution Message Popup Screen Example

Some messages require using the UP/DOWN soft keys to maneuver through the entire message (**Figures 4-23 and 4-24**).



Figure 4-23. Regen Caution Message Popup Screen Example Requiring Use of UP/DOWN Soft Keys



Figure 4-24. Parked Regeneration Instructions Screen

If the operator does not wish to complete a Parked Regeneration, click the **X** soft key. This action cancels Regen, removes the pop-up message, and takes the operator back to the Gauge Screen.

NOTE: The machine must be in park and neutral with a DPF level of 2 or higher to preform Parked Regeneration.

CAUTION EXHAUST TEMPERATURES WILL BE EXTREMELY HIGH. BE SURE EXHAUST WILL NOT COME IN CONTACT WITH ANY COMBUSTIBLE MATERIALS.

If you want to perform regen:

- Ensure the machine is in neutral and parking brake applied. The coolant temperature must be in operating range (typically 155° -160 F°). Set the engine to low idle.
- Once these conditions are met, a blue screen message will appear. (**Figures 4-25 to 4-26**).
- Using the Up/Down Arrow, scroll down through the entire message and press the Request Regen Button.

4



Figure 4-25. Parked Regeneration Blue Screen

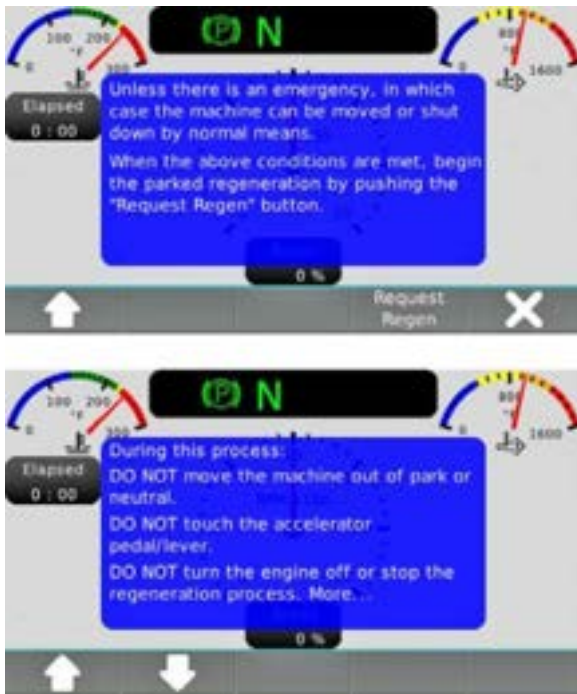


Figure 4-26. Parked Regeneration Message Screens

CAUTION DO NOT ATTEMPT TO OPERATE THE UNIT, CHANGE ENGINE RPM OR MOVE FROM PARK/NEUTRAL WHILE REGEN IS OCCURRING. This will abort the Regeneration process and require you to start the process over.

During the regeneration, the Engine Speed will increase and there may be a noticeable sound difference. The HEST Lamp will appear during the process. (Figure 4-27)



Figure 4-27. Stop Regen Screen

CAUTION Continue to monitor surrounding areas during the process. If unsafe conditions develop, shut the unit off immediately.

4. Parked Regeneration is complete when the controller screen shows the following green popup message. (Figure 4-28) Click on the **X** soft key to remove the popup message. Once the Parked Regeneration process is complete the engine will automatically return to normal idle speed. The machine can return to normal usage.



Figure 4-28. Parked Regeneration Green Popup Message Screen

Messages, Cautions, Warnings

Please pay attention to all messages (shown below) on the controller for the safety of personnel and to prevent engine and property damage if DPF regeneration is needed.

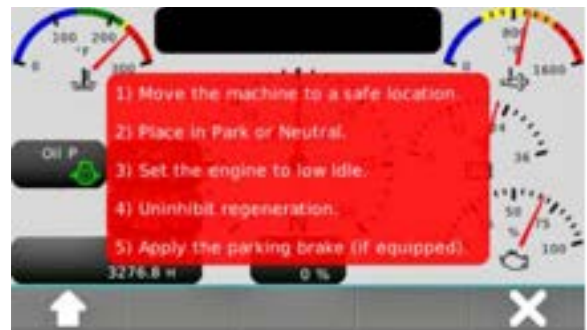
Regen Level 1



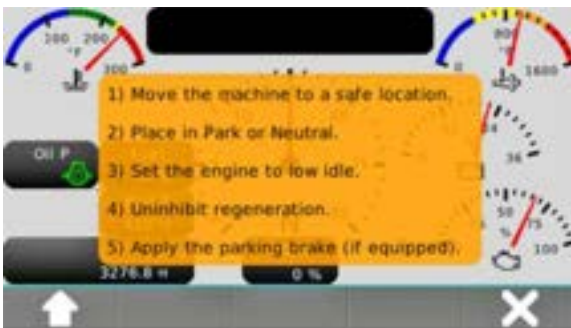
Regen Level 3



Regen Level 2



4



Regen Level 4



Regen Complete



Regen Level 5

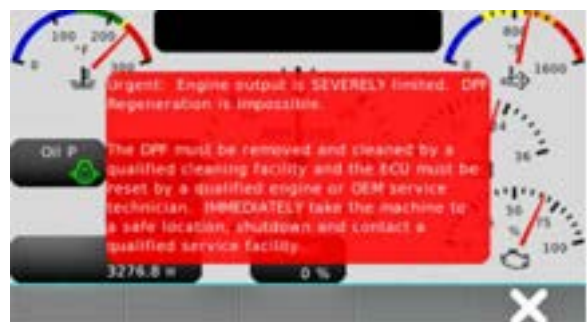


Figure 4-29. Controller Messages, Cautions and Warnings

PLUS ONE CONTROLLER

The Plus One is a 50-pin controller operating in the background that monitors paver control systems and alerts the operator in the event of a fault. When the Plus One controller senses a system fault, the Plus One light on the control panel (**Figure 4-30**) illuminates green and blinks continuously or blinks, then pauses, then blinks again. A complete list of fault codes with corrective action messages are shown in **Section 5, Troubleshooting**.



Figure 4-30. Plus One Light

When the key is turned on, the Plus One light will illuminate for approximately three seconds while the controller powers up, then turn off when the machine is ready to start. The Plus One will not allow the engine to start if any joystick is out of neutral or more than one Run/Stop switch is in the RUN position.

These faults will prevent machine movement:

- Steering control box not detected.
- Joystick(s) not in neutral at start-up.
- Pump control coil fault.
- Brake valve/pump neutral bypass coil fault.
- There is only one steering control box present.
- The fault happens in the steering control box that has control (Run/Stop switch in the RUN position).
- The fault occurs when neither steering control box is in control.

DRIVING THE PAVER

The dual operator platforms allow easy and convenient access for controls of most paver functions. The paver is typically operated from the left side of the operator platform, but it can also be operated from the right side for your convenience. Multiple switches, levers and dials allow the operators to control all paving functions.

NOTE: The Emergency Stop button on the main operator console is used to shut down the engine and all paver functions in the event of an emergency.

A steering and speed control box with dual joysticks are located on each side of the platform. An optional steering wheel control box is also available.

WARNING Ensure there are no people, obstacles or other equipment in the path of the paver before moving in either direction.



Figure 4-31. Operator Control Station

DANGER NEVER leave the operator station unattended while the paver is in gear or in motion. Operator must return joystick(s) to the neutral position and turn the RUN/STOP switch to the STOP position before leaving the operator platform.

NOTE: The engine will not start unless the E-STOP button is disengaged, the Run/Stop switch is in the RUN (center) position, and the joysticks must be in the NEUTRAL (center) position.

Activate/Deactivate Operator Control Station

Only one operator control station can be activated at a time for the paver to function. While the paver is typically operated from the left side, the operator can change the active station at any time using the following procedure:

1. Place both joysticks in the NEUTRAL (center) position. **(Figure 4-32)**
2. Move the RUN/STOP switch to the STOP position on the control box not being used to deactivate:
 - The Run/Stop switch controls stopping the machine and also activating/deactivating the operator control station. When the switch is set to the STOP position, that operator control station is deactivated. When switch is set to RUN, that operator control station is activated.
 - BOTH joysticks must be in the NEUTRAL position and BOTH Run/Stop switches in the STOP position to change from one steering control box to the other.
3. Activate the control box being used by setting the Run/Stop switch to the RUN position.
4. Start the engine and allow the engine to warm a few minutes.

NOTICE If the joysticks are in the forward position and the Run/Stop switch is in the STOP position, the Plus One will disable the control box after a set period of time. This is a safety measure in the event the operator leaves the station with the control box still active. The operator must move joysticks to NEUTRAL (center) position, then toggle the Run/Stop switch from RUN to STOP and back to RUN again to regain control.

NOTE: Material from the opposite side cannot be augered to the working side, however, the operator can leave both Under Auger Cut-Offs shut and open the end gates on the screed for patching potholes and other small road repairs.

Steering and Speed Control

Use the dual joysticks for steering and speed control. It is important to move the joysticks SLOWLY. Lift up on the joystick collar and move joystick either FORWARD or REVERSE. The joystick collar will lock back into place in the NEUTRAL position. The RUN/STOP switch applies parking brake when set to the STOP position. **(Figure 4-32)**



Figure 4-32. Steering and Speed Control Box

- 1 - Left and Right Joysticks
- 2 - Joystick Collar
- 3 - RUN/STOP Switch

CAUTION Be aware of the terrain and driving conditions. Adjust speed accordingly.

NOTE: To slow the paver, move joysticks closer to the neutral position.

NOTE: To stop the paver, pull joysticks back to the neutral position.

- To drive the paver forward, lift up on the joystick collar and push joystick forward to reach the desired speed.
- To move in reverse, lift up on the joystick collar and move joystick backwards to reach desired speed.
- Return joysticks to the neutral position to stop paver.

- To steer the unit to the left, SLOWLY push the right joystick farther forward than the left joystick. The farther the joystick is pushed, the more the paver turns. Slow and easy adjustments are required for safe operation.
- To steer the unit to the right, SLOWLY push the left joystick farther forward than the right joystick. The farther the joystick is pushed, the more the paver turns. Slow and easy adjustments are required for safe operation.

NOTE: If the joysticks are in the forward position and the Run/Stop switch is set to the STOP position, the system will time-out after 30 minutes. You must put joysticks back into neutral and toggle the Run/Stop switch from RUN to STOP and back to RUN again to regain control.

NOTE: If equipped with the optional steering wheel control box: If the joystick steering function is not being used, the Run/Stop switch must be in the OFF position.

NOTICE Before leaving the operator platform, the operator must return joysticks to the neutral position and switch the Run/Stop (on the Steering and Speed Control Box) to the STOP position.

Stopping the Engine

1. Throttle back to idle using settings on the digital display screen.
2. Turn ignition key on instrument panel counterclockwise to the OFF position and remove key.

NOTE: If the engine does not shut down when key is turned to OFF, press the E-Stop button on the control panel to terminate power.

NOTICE Before leaving the operator platform, the operator must return joysticks to the neutral position and switch the Run/Stop (on the Steering and Speed Control Box) to the STOP position.

PAVER OPERATION

Spray Down

Always spray down the LeeBoy Model 8510E Conveyor Paver before and after paving. Spray clean with solvent or release agent on any part of the paver that comes into contact with asphalt to prevent buildup that will damage the machine over time.

There is a spray down system on sides of the Leeboy 8510E paver for your convenience. The wand is conveniently located on each side of the operator's station. **(Figure 4-33)** The hose reel is located on the side of the paver.

1. Extend hose from the reel.
2. Squeeze the wand handle and spray area. Release the wand handle when finished.
3. Rewind hose back onto the reel.



Figure 4-33. Spray Down Hose Reel

- Ensure the area is clear of others before spraying.
- Open the hopper wings and raise the screed.
- Allow the screed to cool at least 10 minutes before spraying to prevent possible burns from solvent spray on a hot screed. The screed should be warm, but not hot.

To operate the Spray Down system:

1. Turn the Spray Down switch on the control panel ON. **(Page 3-6)**
2. Extend hose from the reel.
3. Squeeze the wand handle and spray area. Release the wand handle when finished.
4. Turns the Spray Down switch on the control panel OFF.

WARNING Never spray cleaning solvent or release agent near the screed heating element or near open flame. These agents are highly flammable and can ignite, causing serious personal injury.

NOTICE When using solvents and release agents, consider the environment and DO NOT allow cleaning solvent to run onto the ground. Only spray down the machine in a designated area away from the paving site.

Start at the front of the machine and work rearward, using a scraper if necessary, paying particular attention to ensuring built-up material is removed from:

- **Push Rollers:** Rotate the rollers while cleaning and soak bearing ends to maintain free rotation.
- **Hopper and Conveyors:** Thoroughly clean surfaces and any material accumulating in chains, drive sprockets, idler shaft, bearings and tunnel areas. AFTER cleaning the machine, operate the conveyors briefly to carry solvent into return areas where it can help dissolve hidden asphalt material.
- **Augers:** Scrape away any accumulated material around bearings and clean contact surfaces down to the metal to avoid quick build-up while paving.
- **Screed:** Face and bottom plates should be clean and smooth on the main and screed extensions to achieve a smooth paving mat.
- **Operator Platforms:** Be sure to wash away solvent residue so walk boards and operator platforms do not remain slippery.

Heating the Screed

Heating the screed helps prevent hot mix from sticking to the cold screed plate and produces a smooth, tight mat surface. This should be performed before paving and if the paver is idle long enough for the screed to cool between loads.

Allow the screed (and screed extension) to heat 15 minutes before beginning to pave.

NOTE: Lower the screed two inches off the ground while heating to prevent cold air and wind from affecting the heating process.

NOTE: You can set the screed directly onto a fresh mat of hot asphalt while running the heating system, allowing the heat of the asphalt to help heat the screed plate.

NOTICE Overheating the screed can warp the screed plate and possibly cause damage. If screed extensions lock, allow the machine to cool before attempting to extend or retract. Replace a warped screed plate immediately.

The LeeBoy Model 8510E Conveyor Paver is equipped with two propane burners on the main screed and one burner on each screed extension. An electric heat option is also available. **(Page 4-23)**

Propane Burner Ignition

IT IS IMPORTANT TO OPEN PROPANE VALVES IN THE ORDER SHOWN BELOW. (Figure 4-34)

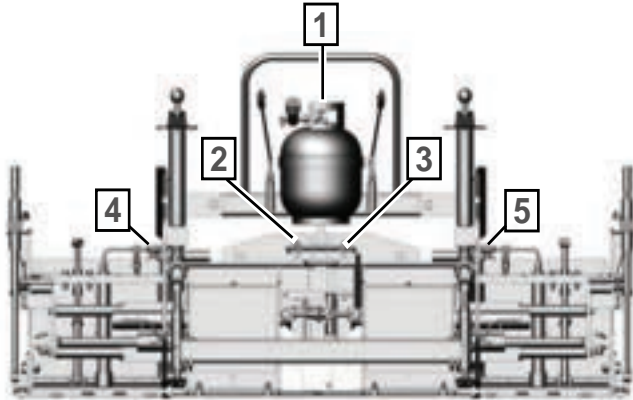


Figure 4-34. Propane Valve Order

WARNING Never open a valve to a burner unless flame is present. A buildup of unburned gas could result in a gas explosion.

WARNING Propane gas used to heat the screed is volatile and combustible. Use extreme care to prevent burns or other injury.

To light the burners:

1. Ensure ALL propane heat valves are closed by turning valves clockwise (propane tank, main burner valves, main ignitor valve, extension ignitor valves). (Figures 4-34 and 4-36)
2. Turn the propane tank Open/Close valve counterclockwise to open the propane gas flow. (Figure 4-35)

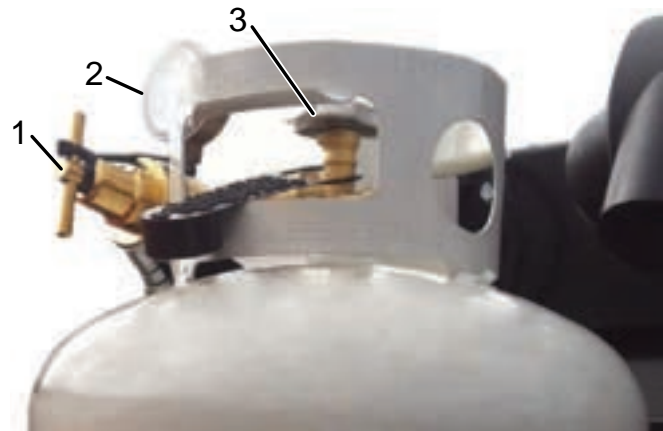


Figure 4-35. Propane Tank With Regulator

- 1 - Pressure Regulator Valve
- 2 - Pressure Regulator Gauge
- 3 - Open/Close Valve

3. Remove the main ignitor wand from its cradle and turn its valve counterclockwise to the OPEN position, then light the ignitor end using a torch striker. (Figure 4-36)

DANGER NEVER use a match or other source of flame to light the ignitor for the burner.

4. Holding the lit ignitor wand in one hand beside the burner you are going to light, turn on the main burner valve and light the that burner just below the valve, then repeat with the other side. (Figure 4-36)

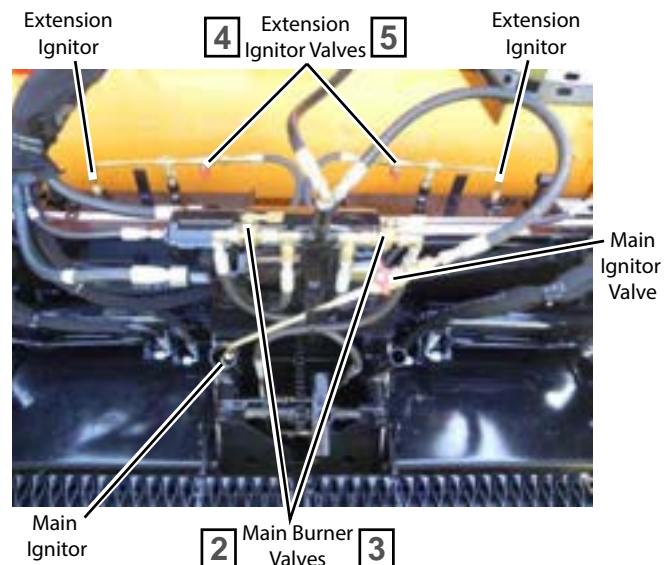


Figure 4-36. Screed Burner Valves

When using the screed extension(s), light the screed extension(s) after the main screed burner has been lit following these additional steps (**Figure 4-37**):

5. Lift up on the burner coupler to release ignitor.
6. Lift ignitor wand, turn valve counterclockwise to the OPEN position and light the ignitor end with the torch striker.
7. Replace the lit ignitor wand into the burner cradle.
8. Push down on burner coupler back into place.

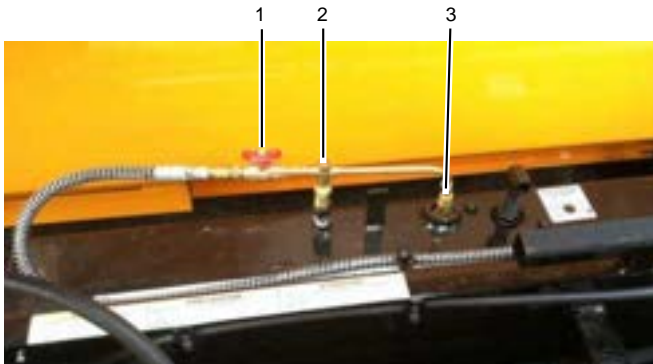


Figure 4-37. Extension Burner

- 1 - Extension Ignitor Wand Valve
- 2 - Burner Coupler
- 3 - Burner

NOTE: Adjust the pressure regulator valve IN or OUT until the propane pressure regulator gauge reads 15 pounds.

NOTE: It may be necessary to maintain low heat on the screed if paving on a cool, windy day. Reduce pressure on the propane pressure regulator gauge to two pounds (.14 bar) in these conditions. **DO NOT** attempt to regulate the burner with the burner valve.

After the main screed (and screed extension) has heated for 15 minutes:

1. Turn the propane tank valve clockwise to the CLOSE position to allow the propane system to burn off all the gas. (**Figure 4-35**)
2. When the flames extinguish, TURN OFF ALL burner valves clockwise to the OFF position. (**Figures 4-34 through 4-36**)

Electric Heat (Option)

The LeeBoy 8510E Conveyor Paver offers an optional Electric Heat system to heat the screed, including the screed extensions, in lieu of the propane burner system. A hydraulically-driven generator powers the electric heat control box mounted in the center on the rear side of the machine. This control box is where you will select the heating function before you begin to pave. (**Figure 4-38**)

A hydraulically-driven generator provides power to the electric heat control box mounted in the center on the rear side of the machine. The electric heat box is pre-wired for the heated endgates option. If not equipped with this option, the left and right endgate switches do not function.

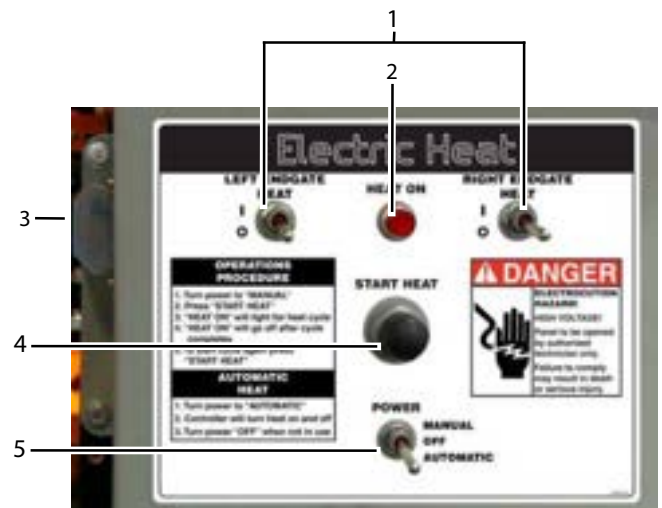


Figure 4-38. Electric Heat Control Box

- 1 - Left and Right Endgate Switches (OPTION)
- 2 - Heat On Light
- 3 - Circuit Breaker
- 4 - Start Heat Button
- 5 - Power Switch

Once the heating function has been enabled, the distribution/control box will apply electrical power to the heating elements and the heating cycle will begin. The heating cycle is timed to optimize the heat generated at the screed plates.

NOTE: Allow the screed (and screed extension) to heat 15 minutes before beginning to pave. Lower the screed two inches off the ground while heating to prevent cold air and wind from affecting the heating process.

To operate the electric screed heating system:

1. Start the paver and idle until the engine reaches normal operating temperature.
2. Set the throttle on the PV480 display to PAVE (1800 RPMs). **Do not exceed 1800 RPMs.**
3. Raise the screed plate one or two inches off the ground.
4. Turn the electric heat control box power ON by flipping the power switch up. **(Figure 4-38)**
5. Press the Start Heat button.
6. The HEAT ON indicator light will illuminate and stay on as long as the element is heating the screed. (The factory-set heat cycle is 20 minutes, which should generate enough heat to begin the paving process. Operating in cold temperatures may affect the screed plate temperature slightly.)
7. If the heat cycle has completed but the screed plates still require heating, restart the cycle by repeating Step 5.

Hopper Wings

The hopper wings are hydraulically opened so the hopper can be filled with paving material. **(Figure 4-39)** Conveyor paddles in the bottom move the asphalt back to the auger, where the mix flows through the cut-off gates to the screed.

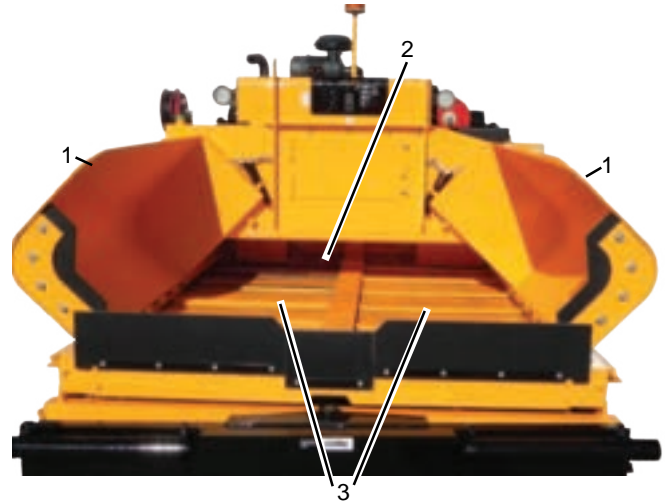


Figure 4-39. Hopper

1 - Hopper Wings

2 - Auger

3 - Conveyors

To operate the hopper wings:

1. Push the hopper wings lever to OUT on the manifold to fold out hopper wings. **(Pages 3-6 and 3-7)**
2. Be sure the hopper wings are completely extended before receiving paving material from the truck.
3. Push the hopper wings lever to IN to close the hopper wings.

WARNING DO NOT fold in the hopper wings when the hopper is full of asphalt. DO NOT fold in the hopper until the material truck has moved completely away from the paver.

Conveyors

The LeeBoy Model 8510E Conveyor Paver is equipped with two automatic conveyors that deliver asphalt evenly to produce a smooth asphalt mat. **(Figure 4-40)**

The conveyor is a very important part of the paver that moves material from the hopper back to the auger and out of the cut-off gates to the screed. Pay close attention to integrating its operation into the total operation of the paver.

When operating the conveyor:

- Spray down the conveyor drive chains with cleaning solvent or release agent several times during the work day for optimum performance.
- Select AUTO or MANUAL mode for the left or right (or both) conveyor switch(es) on the control panel. **(Pages 3-6 and 3-7)**
- If the conveyors are running while the Under Auger Material Cut-Offs are closed, there will be spillage, which is normal. To help prevent this spillage, work conveyors manually when loading hopper and not paving.
- Irregular movement of the conveyor indicates that the conveyor chains need adjustment.
- **NOTE: Check conveyor chain adjustment every 100 hours. (Section 5, Pages 5-8)**

CAUTION Never leave the paver unattended while the conveyor is operating. Asphalt in the conveyors can fill tracks and cause damage to the machine.

NOTICE To prevent flight chains from sticking inside the conveyor pans, lubricate them daily for maximum operational efficiency.

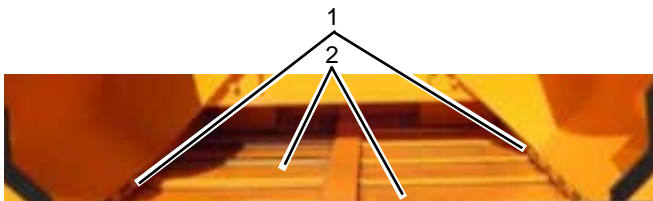


Figure 4-40. Conveyor Chains and Paddles

1 - Conveyor Chains

2 - Conveyor Paddles

Under Auger Material Cut-Offs

The Under Auger Material Cut-Offs are another important function of the paver. The cut-offs are used primarily to control the flow of asphalt to the screed and hydraulic screed extensions. The cut-offs enable varying paving widths as narrow as one inch (30.5 cm) and as wide as 15 feet (4.6 m), depending upon the screed option.

Cut-offs can be used to limit material flow when making narrow passes at the beginning and ending of each pass or pull. Proper use of the cut-offs minimizes clean-up at the end of pulls. **(Figure 4-41)**

- The right and left cut-off levers on the hydraulic controls open and close the cut-off gates. **(Pages 3-8 and 3-9)**
- Holding the lever in the OPEN positions increases asphalt flow to the screed. Holding the lever in the CLOSED position decreases asphalt flow to the screed.

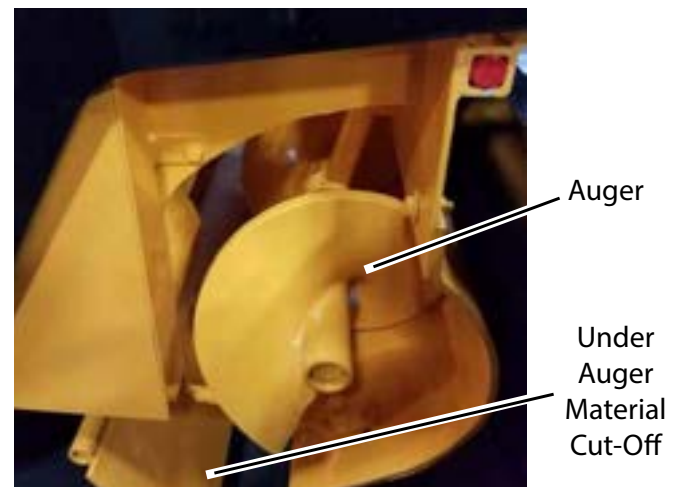


Figure 4-41. Under Auger Material Cut-Offs

CAUTION NEVER back up with the cut-offs open. The cut-offs are designed to break away from cylinders when hitting a manhole or other object when moving forward, but not in reverse.

Electric Flight Screw

The electric flight screw is an added convenience to the operator. **(Figure 4-42)** A screed height gauge is located on both sides of the paver to provide the operator with a quick reference to the location of the electric screw.



Figure 4-42. Electric Flight Screw

1. Before paving, center the electric flight screws according to the screed elevation gauge on each side of the paver. Raise or lower until rod end of cable is flush with "0" on decal.
2. While paving, refer to both gauges and make minor adjustment to the screed by using the electric flight screw.

Set the Screed, Flight Screw and Endgate

The main screed and screed extensions are heated by heating elements and equipped with replaceable, heavy-duty wear plates. Use the screed extensions when paving widths exceeding eight (8) feet. **(Figure 4-43)** The screed extensions should be heated before making any adjustments using the wrench provided.

When adjusted correctly, pressure on the rear edge of the extended screed is the same as the rear edge of the main screed, resulting in a smooth mat the length of the screed.

You can extend or retract the screed extension using the extension levers on the hydraulic controls. **(Pages 3-8 and 3-9)**

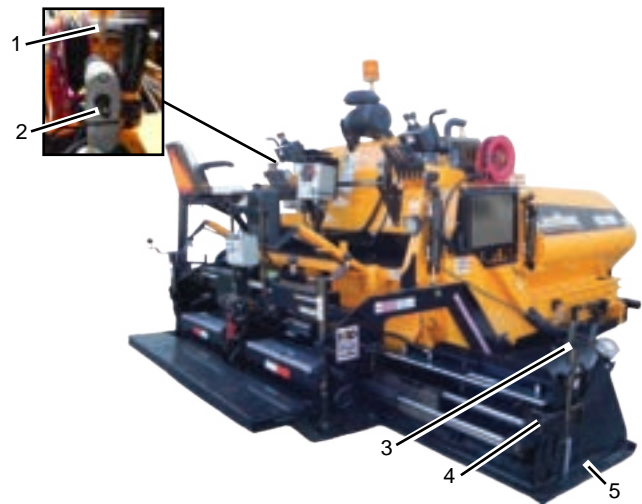


Figure 4-43. Screed, Flight Screw and Endgate

- 1 - Elevation Gauge
- 2 - Electric Flight Screw
- 3 - Endgate Depth Screw
- 4 - Endgate Tilt Screw
- 5 - Endgate

A remote control box is provided on both sides of the main screed with switches to extend or retract the screed, sound horn, E-Stop button for immediate stopping, turn the auger on and off with auger dial for speed, berm switch and tow switch. **(Figure 4-44)**



Figure 4-44. Remote Screed Control Box

Adjust the screed extension while paving using the following procedures:

1. Move paver to the starting position for paving.
2. Extend the screed to the desired width.
3. To set the depth, you can place a small starter block under the screed while you make adjustments. **(Figure 4-45)**

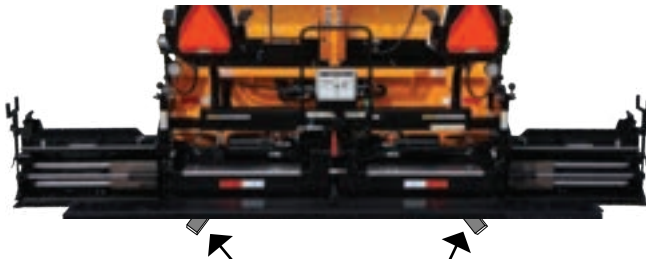


Figure 4-45. Starter Blocks Location

4. Level the screed using the electric flight screw **(Figure 4-42)**:
 - Refer to the elevation gauge (one on each side of the paver for your convenience). Raise or lower until the rod end of the cable is flush with "0" on the gauge.
- NOTE: Both joysticks must be in the forward position to operate the electric flight screw on the left side, but will work at any time in the MANUAL position.**
- While paving, refer to both gauges and make minor adjustments if needed.
5. On the first pass, turn the endgate depth screw to lower the endgate until it is about 1/4-inch (6.35 mm) below the screed. **(Figure 4-43)**

6. Turn the tilt screw so the front of the endgate tilts down slightly when the screed is lifted. This will allow the endgate to set itself to the grade. **(Figure 4-46)**

NOTE: Never allow the endgate to carry the weight of the screed to prevent uneven compaction.

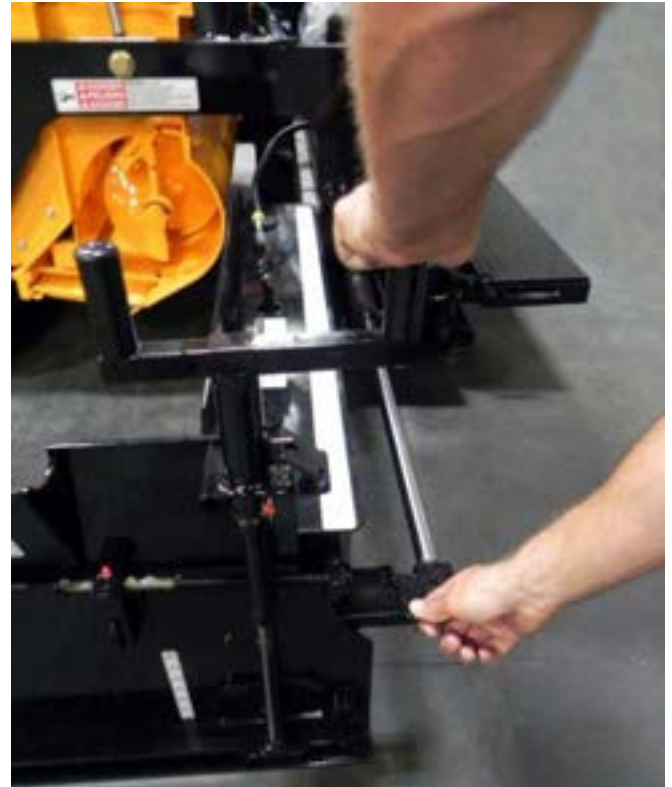


Figure 4-46. Endgate Tilt Screw Adjustment

7. If the endgate digs into the asphalt at the front, adjust the tilt screw until the endgate tilts back more.
8. When making a hot joint, the endgate must be set to where it fits flush with bottom of screed.
9. On the first pass, leave approximately six to eight inches (15 - 20 cm) of unrolled asphalt where the joint will be made.
10. When making a joint, the endgate must be set to where it fits flush with bottom of screed.

NOTE: Keep runners clean. When making a joint, spray solvent on the runners.

11. If the joint looks too high or too low, adjust the flight screw on the screed one turn at a time and allow four to five feet (1.2 - 1.4 m) of travel to correct itself.

NOTE: Too much adjustment up or down may cause uneven pavement.

12. If making a cold joint, set the endgate down about 1/4 inch (6.35 mm) for a nice, even edge.

Sonic Auger

The sonic auger controls the amount of material flowing to the endgates, gauging the amount of paving material in the extensions. An operator can operate the sonic auger from either side of the paver. The sonic auger sensors are most often used when paving widths of nine to 15 feet (2.7 - 4.6 meters) and are not used in the manual mode.

The sonic auger sensor sits in the screed mount and connects to the plug under the screed auger dial box. **(Figure 4-47)** It detects the material height and controls the auger height by automatically turning the auger on and off.

NOTE: The augers are not needed when paving under eight-foot wide (2.4 m). To operate the sonic auger sensor:



Figure 4-47. Sonic Auger Sensor Option

To operate the sonic auger sensor:

1. Plug in the sonic auger sensor unit (bottom of the Material Height Dial).
2. Pull the auger lever down.
3. Set the left and right auger switches on the left side of the control panel to AUTO.
4. Adjust material height at the endgate using the auger dial beside the steering control box (or remote screed control box). **(Figure 4-48)**
 - The right and left auger dials controls material height. Turning the dial clockwise increases material height while turning counterclockwise decreases material height.
 - When the material height moves into the sonic range, the auger will automatically turn off. It will turn back on when the material level drops.

Auger Dial



Figure 4-48. Auger Dials

STARTING TO PAVE

The LeeBoy 8510E Conveyor Paver provides superior paving for driveways, small to large parking lots, and secondary roads. It has a production rate of approximately 250 tons per hour.



This paver is capable of placing a mat thickness of six inches (20 centimeters) for:

- Bituminous base.
- Binder or surface course.
- Lime or Portland cement-stabilized sub-base.
- Graded aggregate materials.

Operators should be trained to operate the various machine components along with proper paving techniques before operating the machine.

Before starting to pave, keep these items in mind:

- Plan the project so you pave the most narrow passes first (the width of the paver), leaving the widest passes until last.
- Always pave in low range.
- It is the operator's job to guide the material truck back to the hopper and signal the driver when to stop dumping the asphalt into the hopper.
- Use a reference guide such as a curb, gutter, adjacent mat or string line.

- It is very important that the first pass be straight as it will serve as your guideline for the following passes.

NOTE: If paver is equipped with the optional truck hitch, the truck driver won't need to maintain brake pressure.

- Adjust truck push rollers to the appropriate height needed for asphalt truck. **(Figure 4-49)** Use truck hitch controls if equipped with this option. **(Page 4-35)**
 - There are five (5) set heights on the truck push rollers.
 - Remove bolts on both sides of each push roller, align with either of the five slots on the frame at desired height, and reinstall bolts.
 - Both push rollers should be at the same height to prevent damage.

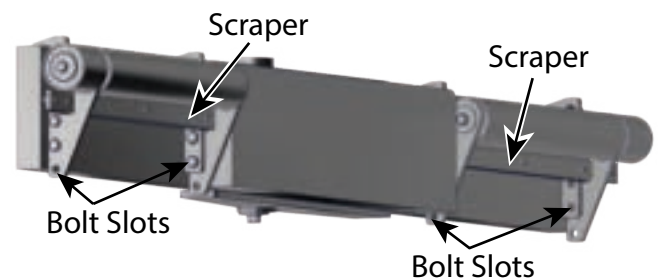


Figure 4-49. Adjustable Push Rollers

- Extend the lower guide bar gauge to further assist you in paving a straight line from the operator's station. **(Page 4-50)**



Figure 4-50. Lower Guide Bar Gauge

CAUTION Avoid low limbs, power lines, and other objects that can endanger crew or paver.

Basic Paving

1. Follow the start-up procedure. (Page 4-4)
2. Position paver at the starting point for the mat.
3. Adjust screed as needed. (Page 4-26)
4. Open the Under Auger Material Cut-Off. (Page 4-25)
5. Open hopper wings. (Page 4-24)

NOTE: Allow only a partial load of asphalt to enter the hopper when first starting to pave.

6. Turn the left and right conveyor sonic paddle switches to the AUTO position.

NOTE: When in the AUTO mode, the conveyors will operate at the selected speed but will turn on and off when using the sonic auger.

7. Turn the left and right auger switches AUTO, using the dials to control the material height at the endgate.
8. When the material starts moving into the sonic range, the auger speed will slow proportionately and turn off, then turn back on when the material level drops.

NOTE: The material height must be set to the highest point when the endgates are closed. When the endgates are open, the material height will lower to prevent material from pushing in front of the endgates.

9. When the material begins to discharge from under the screed, set the screed lift lever to the FLOAT position.
10. Begin paving, moving slowly at first to adjust the screed if needed.
11. Make a paving pass until the asphalt level in the hopper is low.

NOTE: To prevent excessive handwork, set the left and right conveyor switches to the OFF position and set both cut-off levers to the CLOSE position about three feet from the end of the pull to prevent excessive handwork.

12. Return paver back to starting position to begin the next pull.
13. Position and set the screed endgate on the joint side back to "0" feet, or flush with bottom of the screed.
14. Repeat these steps as you continue to pave.

Setting the Crown

The screed can also be set to control the pavement slope, or crown. A pavement crown is the elevation of the middle in relation to the edges, and insures proper drainage of the pavement.

To adjust the crown:

1. Loosen the lock-down bolts in slotted bars (on the right side of paver) and the center plate before adjusting crown and valley mechanism. (Figure 4-51)

NOTE: The locking bolt on the optional 815HD screed is located beside the crown adjustment mechanism. (Figure 4-51)



Figure 4-51. Loosen Lock-Down Bolts

2. Remove the crown handle and insert into adjuster. (Figure 4-52)
3. For increased positive crown push down on adjuster.
4. For increased negative crown pull up on adjuster.
5. Use the gauge at the center of the screed above the standing platform. If the needle is above the zero, you will have positive crown. If the needle is below the zero, you will have negative crown.
6. To get exact crown or valley, measure the distance between a flat level surface to the center bottom portion of screed. Make adjustments with crown and valley control.



Figure 4-52. Crown Adjustment

1 - Adjuster

2 - Crown Handle

NOTE: Maximum crown is two inches.

- Positive crown is when the middle of the mat is raised to permit water to drain to each side. **(Figure 4-53)**
- Negative crown is the lower in the center of the screed plate, often used in an alley where drainage is necessary. **(Figure 4-53)**

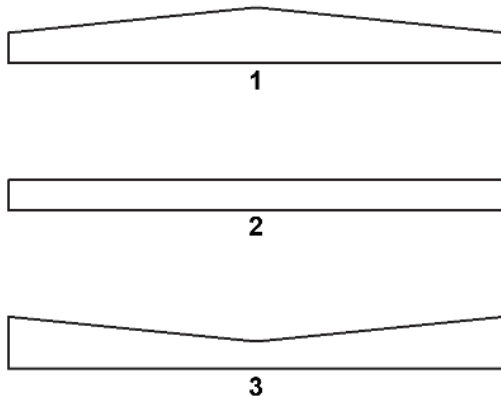


Figure 4-53. Crown Settings

1 - Positive (+)

2 - Zero (0)

3 - Negative (-)

NOTE: Crown may be placed in the leading edge and/or the trailing edge of the screed plate. Crown in the leading edge aids material flow under the screed plate only. Trailing edge crown puts a crown in the mat.

Example: The trailing edge crown is 0 and the leading edge crown is 1/8 inch. There will not be any crown in the mat, but the material flow under the screed plate will be improved.

Mat Texture Adjustment

The screed extension can be adjusted for a smoother or coarser mat texture by using the Angle of Attack (AOA) adjustment screw. **(Figure 4-54)**

There are three adjusters in each extension. The two adjusters at each end of the screed extensions are preset by the dealer and should not need adjustment. You can adjust the mat texture using the AOA adjustment screw in the center. To make the AOA adjustment:

1. Spray down the screed.
2. Turn on the screed heat.
3. Turn the screw in the direction for desired result:
 - Turning the AOA adjuster counterclockwise will increase the pressure on the back of the extension, which gives a smoother, slicker finish.
 - Turning the adjusters clockwise will decrease the pressure on the back of the extension, resulting in a coarser finish.

NOTE: Too much pressure on the back of the screed extension will take the weight off the screed wearplate and cause poor material compacting, resulting in a poor finish.

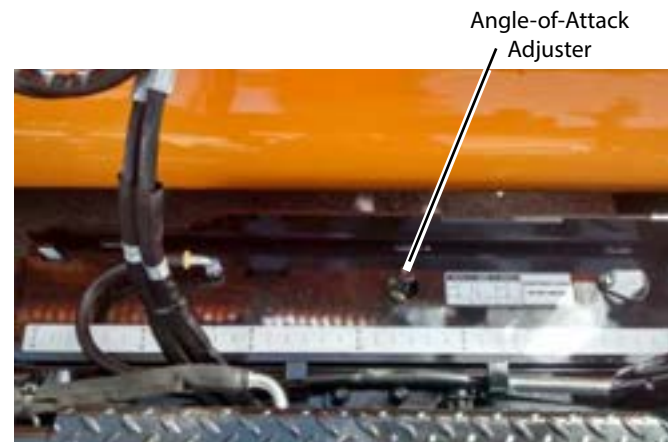


Figure 4-54. AOA Adjustment

UNLOADING AND LOADING

Ensure the transport trailer has the capacity to carry the paver's weight. Park the trailer in a clear, level area when loading or unloading the machine.

CAUTION ALWAYS position an assistant to be a ground guide when loading and unloading the paver.

CAUTION Work slowly and carefully to avoid accidents. Keep the loading area clear.

WARNING ALWAYS back the paver up loading ramp with the screed end first. ALWAYS be alert to uneven surfaces and the potential reactions when transferring the paver from surface to surface. Serious injury or even death can result.

WARNING Use extra caution steering when loading and unloading the paver as slight steering changes on ramps and trailers can cause the machine to fall off the ramp or transport trailer. Serious injury or even death can result.

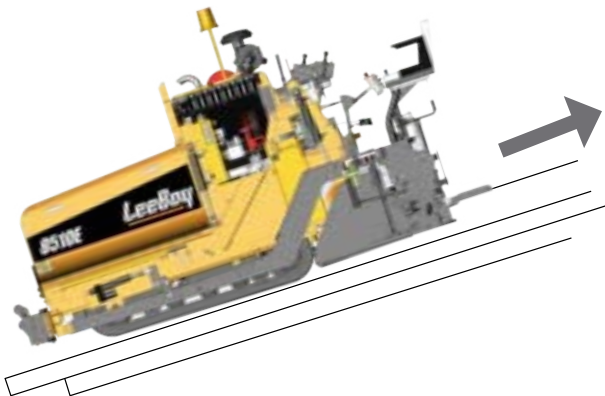


Figure 4-55. Correct Loading and Unloading Position

Unloading

1. Remove tie-down equipment.
2. Start and warm up engine.
3. Set throttle at half the operating RPMs, but enough to ensure the hydraulic pump is providing sufficient flow to operate all functions properly.
4. Set steering control lever so paver moves very slowly.
5. BEFORE moving the machine, ensure:
 - The main screed position is UP, the screed extensions are retracted and locked, and the hopper wings are locked.
 - Auger extensions are removed.
 - The Under Auger Material Cut-Offs are CLOSED.
6. Move paver forward down the ramp as shown on Figure 4-55.

NOTICE Never move the paver in reverse while the cut-off gates are open.

CAUTION DO NOT allow the screed to strike the ramp as this can damage bearings on the thickness control screws or welds on the leveling arms. A longer ramp to reduce the loading angle may be needed.

Loading

CAUTION To prevent damage to the undercarriage and throughout the paver, reduce traveling speed before the paver tracks come into contact with loading ramps or any abrupt change in the surface. The track drive sprocket or other components can be damaged by excessive shock.

CAUTION The paver must be loaded screed-end first to prevent damage.

1. Move paver to base of ramp. Line up tracks with the ramp.
2. BEFORE moving the machine, ensure:
 - The main screed position is UP, the screed extensions are retracted and locked, and the hopper wings are locked.
 - Auger extensions are removed.

- The Under Auger Material Cut-Offs are CLOSED.
3. Load the paver screed-end first. Set throttle at half the operating RPMs.
 4. Set steering control lever so paver moves very slowly onto the ramp.
 5. Using the steering control joysticks, SLOWLY guide paver up the ramp.
 6. Position paver in center of trailer.
 7. Lower the screed.
 8. Shut down the engine.
 9. Secure paver to transport using the following tie-down procedures.

Tie-Down Procedure

1. Position paver in center of the trailer.
2. Attach tie-down chains to the front weight block and the D-Rings in front of the torque hubs. **(Figure 4-56)**.
3. Place chocks at wheels or tracks.
4. Ensure that all chains are tightly secured before transporting the paver.



Figure 4-56. Tie-Down D-Ring Locations

TOWING

WARNING Ensure the paver is on level ground and blocked to prevent machine from moving while preparing for towing. Be especially careful after disconnecting the torque hub as the paver could roll.

While it is strongly recommended that the paver be transported rather than towed, there are situations where you may need to tow the paver off the road until a transport vehicle arrives. Do not tow paver long distances.

You must disconnect the torque hub to prepare the machine for towing as follows:

1. Using a wrench, loosen one of the two bolts on the torque hub cap, then remove the other bolt and retain for next step. **(Figure 4-57)**



Figure 4-57. Remove Cap Bolts

2. Slide cap over and insert retained bolt into the center of the hub. **(Figure 4-58)** This allows you to pull the release mechanism out, which disconnects the torque hub.



Figure 4-58.

NOTICE Be sure to push release mechanism back into place and reinstall/tighten bolts on cap when finished moving the paver.

OPTIONAL COMPONENTS

Umbrella Option

The umbrella kit option provides shelter from sun and other weather conditions for the operator. The umbrella kit assembly includes the mounting bracket and umbrella frame assembly that can be mounted on either side of the operator platform.

High Deck Option

The LeBoy 8510E paver offers a high-deck configuration option. The high-deck configuration requires a two-man operational crew. Paving functions are operated from either side with lower controls to accommodate ease of operation.

Rubber or Steel Track Options

The LeeBoy 8510E paver is equipped with poly-pad tracks. However, steel or rubber track options are available in lieu of the poly-pad tracks.

Electric Screed Options

The Legend Propane Screed is standard on the 8510E paver, complete with propane burners on the main screed and one burner on each screed extension.

Electric screed options are also available and include an electric heat control box powered by a hydraulically-driven generator. The Electric Legend Plus Screed features electrically-heated main and screed extensions and dual vibrators, and is equipped with replaceable wear shoes.

The Legend 815HD Electric Screed option offers numerous features for paving professionals. The main screed and screed extensions are electrically heated by two (2) 2000-watt, S-Curve heating elements on the main screed and one (1) 1000-watt heating element on each screed extension. The screed is equipped with replaceable, heavy-duty wear plates. Dual electric vibrators, heavy-duty flight screws, heavy-duty crown and valley mechanism, and a 3-Adjuster screed system featuring AOA and vertical height adjustment add even more screed control. Other options available for this screed include heated endgates.

Truck Hitch Attachment

The truck hitch is an optional attachment that prevents excessive and uneven braking from the paving material truck. **(Figure 4-59)**

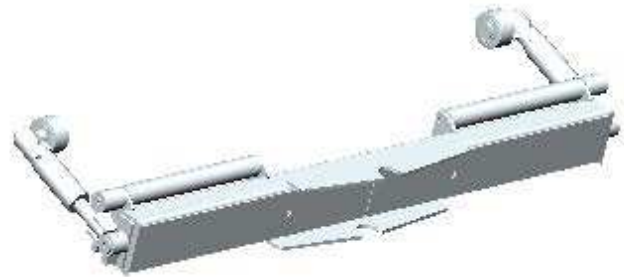


Figure 4-59. Truck Hitch Attachment Option

To engage the hitch with the rear wheels of the asphalt truck:

1. Extend the arm extensions of the truck hitch by pushing and holding the Truck Hitch lever in the OUT position.
2. The paving material truck then SLOWLY backs up to the paver until the hitch makes contact with the rear tires of the truck.
3. Retract the arm extension by pushing and holding the Truck Hitch lever in the IN position until both guide rollers are fully locked onto the truck wheel rims.
4. It may be necessary to adjust the roller guides to the inside of the wheel rims.

Steering Wheel Option

A steering wheel option is also available in lieu of joystick steering. **(Figure 4-60)** The Run/Stop switch on the steering panel controls running and stopping the machine, and applies parking brake when set to the STOP position. The joystick controls forward and reverse travel along with speed.



Figure 4-60. Steering Wheel Option

- 1 - Forward/Reverse
- 2 - Steering Wheel
- 3 - Run/Stop Switch

- To drive the paver forward, push joystick forward to reach the desired speed.
- To move in reverse, pull joystick(s) and move backwards to reach desired speed. A back-up alarm will automatically turn on when in reverse.
- To slow the paver, move joysticks closer to the neutral position.
- Return joystick to the neutral position to stop paver.

NOTE: If the joystick steering function is not being used, the Run/Stop switch must be in the center OFF position.

NOTE: The engine will not start unless the E-STOP button is disengaged and the joystick must be in the NEUTRAL (center) position.

Berm Screed Extension Attachment

The Berm Screed Extension Attachment (HD Screed only) allows you to adjust the last one foot of each extension to pave up to a four-inch roll-up curb. **(Figure 4-61)** You can also raise the height to easily allow more material alongside buildings or other objects on various paving jobs. The berm attachment is adjustable while paving and controlled via a remote toggle switch.



Figure 4-61. Paving with Berm Attachment

The berm attachment is adjustable while paving. To operate:

- Place toggle switch in the BERM position to raise and lower the berm attachment.
- Place toggle switch in the EXT position to move the screed extension in or out.

One-Foot Screed Extension

The 1-foot screed extensions attach to the main screed extensions, extending paving width from 15 - 17 feet (2.1 - 5.18 m).

To attach the 1-foot extension:

1. Extend both main screed extensions.
2. Remove both endgates.
3. Install each 1-foot extension on correct side.
4. When both are installed, set wearplates flat with the main extension using the vertical lift adjusters and AOA adjuster. **(Figure 4-62)**
5. Reinstall endgate.

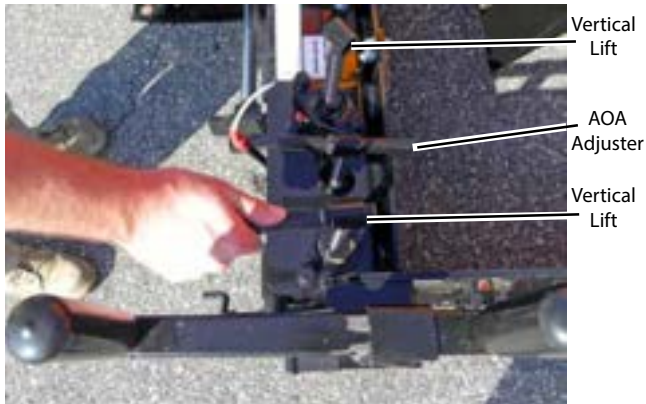


Figure 4-63. One-Foot Screed Extension

Heated Endgates

The heated endgate also heats the edge of the endgate, producing a smoother joint as you pave. **(Figure 4-63)**

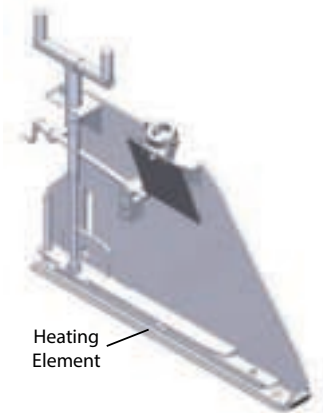


Figure 4-62. Heated Endgate

To operate the heated endgates:

1. Start the paver and idle until the engine reaches normal operating temperature.
2. Raise the screed plate one or two inches off the ground.
3. Turn the electric heat control box power ON by turning the power switch up. **(Figure 4-58)**
4. Press the Start Heat button. The HEAT ON indicator light will illuminate and stay on as long as the element is heating (approximately 20 minutes).
5. Turn the left or right endgate switch up to the ON position.
6. You can restart the cycle by repeating Step 4 if needed.

Topcon® Sonic and Dual Grade Control



Figure 4-64. Sonic Grade Control

Topcon® sonic grade control, dual grade control and slope options offer paving professionals screed control for improving smoothness along with assuring accurate slope and material thickness. These controllers send signals to the screed to precisely maintain mat thickness and slope as you pave.

Sonic trackers continuously measure the elevation over the surface, automatically averaging and adjusting the tow point cylinder on the paver. The LCD digital display is easy to see regardless of light conditions.

Choose from one of three options: Sonic Grade Control (one side); Dual Grade Control or Dual Grade Control and Slope (both Topcon P-32 systems). The dual grade controls automatically maintain a set depth on both ends of the screed. The Dual Grade and Slope controls maintain a set depth on one end of the screed and as et slope to the other end.

Most states require this technology for state road paving jobs to ensure smoothness and continuity on roadways.

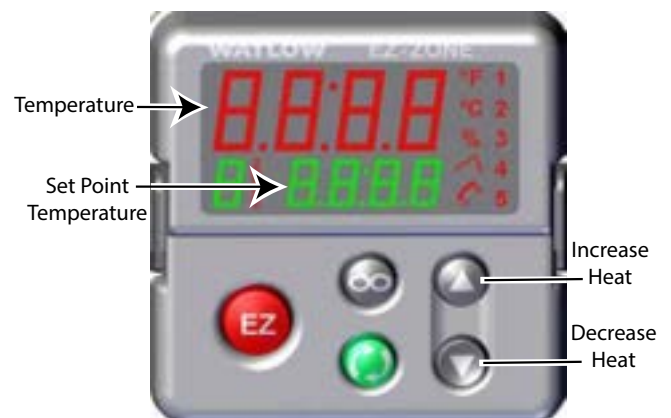


Figure 4-65. Automatic Temperature Control Box

Automatic Temperature Control

Automatic temperature control for heating the screed is an option that offers additional convenience for operators, automatically turning the heating elements on and off to maintain desired screed temperature. **(Figure 4-65)**

The green numbers that illuminate on the controller is the set point temperature. Use the UP and DOWN arrows to increase or decrease the set point temperature. The screed temperature appears in red numbers above the set point temperature. **(Figure 4-66)**



NOTE: DO NOT push other buttons as they are for service technician access only.

Figure 4-66. Automatic Temperature Controls

Start with a set point temperature of 200° - 250° F (93.3° - 121° C). The screed runs warmer than the set point temperature due to heat soak, which is normal, so it's better to start with cooler a temperature set point. The displayed temperature (in red) must fall 25 degrees below the set point before the heating elements turn on again.

Auger Lube Kit

The Auger Lube Kit combines the four (4) auger bearings grease points into one lubrication point, located on the back of the auger in front (left) of the right operator station. **(Figure 4-67)**

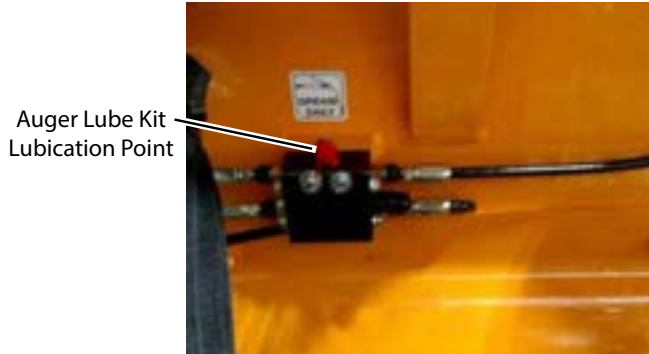


Figure 4-67. Auger Lubrication Point



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MAINTENANCE SCHEDULE

Before performing any maintenance procedures on the LeeBoy Model 8510E Conveyor Paver, review the safety information in **Section 1**.

WARNING Always use the appropriate and correct-sized tools for the task at hand to prevent damage or possible injury.

WARNING Always wear heat-resistant gloves when handling hot components.

Following the maintenance schedules and procedures will maintain the paver in top operating condition and provide years of trouble-free operation. Refer to the

Engine Operator's Manual accompanying your paver for more detailed engine service information.

When performing any routine maintenance, always include the previous routine maintenance hours in the higher hourly schedule.

NOTE: For convenience there is an oil drain hose located inside of the right-hand door on the paver.

NOTICE Changing oil and cleaning the paver should only be done in a designated area where the oil and chemicals can be contained. These by-products should be discarded in accordance with environmental regulations.

Table 5-1. Periodic Maintenance Schedule

SYSTEM	ITEM	Every 10 Hours Daily	Every 50 Hours Weekly	Every 100 Hours Monthly	Every 250 Hours Quarterly	Every 500 Hours Semi-Annually	Every 1000 Hours Annually
Paver	Lubricate paver.	X					
Engine	Check oil level.	X					
	Check coolant level.	X					
	Replace coolant.					X	
	Check air filters. Clean if needed.		X				
	Change air filters.						X
	Replace fuel filter.				X		
	Change oil and oil filter. (Initial 50 Hours)				X		
	Adjust main engine belt.				X		
	Replace main engine belt.					X	
Hydraulic	Check hydraulic oil level.	X					
	Change hydraulic oil.						X
	Change hydraulic filter.				X		
	Check torque hub oil.		X				
	Change torque hub oil.					X	
	Drain hydraulic tank. Replace strainer.						X
Mechanical	Adjust conveyor drive chains.			X			
	Adjust conveyor flight chains.			X			
	Adjust auger chains.			X			
	Adjust screed extension top guide.			X			

RAISING AND LOWERING CONVEYOR

The conveyor bed can be hydraulically lifted for easy access to the undercarriage and tracks for cleaning, maintenance and adjustments. **(Figure 5-1)**



Figure 5-1. Hydraulic Conveyor Bed

NOTE: Engine must be running to raise the hydraulic conveyor bed, but can be turned off while unbolting the side wings.

Use the following procedures to raise and lower the conveyor:

1. Fold in the side wings by pushing the Side Wings In/Out lever to the IN position.
2. Remove bolts on side wings using the wrench provided with your machine. **(Figure 5-2)**



Figure 5-2. Remove Side Wing Bolts

3. Grasp top of the side wing with one hand and the handle with the other, and carefully pull out five to six inches (13-15 cm). Then pull bottom handle out until the side wing folds out from the bottom hinge. **(Figure 5-3)** Repeat for the other side.



Figure 5-3. Fold Out Side Wings

4. Raise conveyor by pushing the Conveyor Raise/Lower lever up to the RAISE position and hold until conveyor is fully raised.
5. Immediately after raising the hopper, place the safety prop in position. **(Figure 5-4)**



Figure 5-4. Safety Prop in Position

WARNING Crush Hazard! Safety prop must be placed in position. Use extreme care when working under conveyors. Clear the area of untrained personnel.

Lowering Conveyor

CAUTION Remove all tools or foreign objects before lowering and clear the area of untrained personnel.

1. Before lowering the conveyor, make sure that the area under the conveyor is clear of tools or foreign objects.
2. Turn engine ON and raise conveyor off safety prop.
3. Release safety prop carefully.
4. Lower the conveyor by pushing the Conveyor Raise/Lower lever to the LOWER position and hold until conveyor is fully lowered.

ROUTINE MAINTENANCE

Preparing Paver for Maintenance

WARNING If any maintenance must be performed while the engine is running, DO NOT leave paver unattended.

1. Park the paver on a flat surface.
2. Lower all attachments to ground level.
3. Place joysticks in neutral.
4. Run engine at 1/2 speed (RPMs) without load for three to five minutes, then reduce to slow idle.
5. Place ignition switch in the OFF position.
6. Follow the previous instructions for raising and lowering the conveyor bed for procedures requiring access to the undercarriage and tracks.

Every 10 Hours or Daily Routine Maintenance

1. Clean off paving material and spray cleaning solvent or release agent on the wearplate, extensions, and any other area that has been in contact with the paving material. Cleaning should be performed while the paver is hot.

NOTICE If asphalt material is allowed to remain on the paver overnight, possible damage and increased maintenance costs can result upon start-up the next day. Poor housekeeping will increase maintenance costs.

2. Raise conveyors and place safety prop into position. **(Figure 5-4)** Clean any asphalt material off all flat surfaces. Remove any debris from screed and check for leaks.
3. Lubricate the required parts. **(Page 5-7)**
4. Check light bulbs and replace if needed.
5. Check battery cables and connections.
6. Check coolant level. Fill if needed.
7. Check for loose, worn or damaged hoses, tubes clamps. Tighten, repair or replace promptly.
8. Keep the fuel tank full to prevent condensation. Always fill at the end of the day.
9. Check engine oil level. **(Page 5-12)**
10. Check hydraulic oil level. **(Page 5-16)**
11. Perform any other engine preventive maintenance described in the Engine Operator's Manual.

NOTE: In cold weather, keep conveyor flight chains properly oiled with cleaning solvent or release agent. This will prevent conveyor bars from sticking. Neglect could result in conveyor bar damage or drive chain failure.

Every 50 Hours or Weekly Routine Maintenance

1. Check air filter. **(Page 5-13)**
2. The FIRST 50 HOURS, change engine oil and filters, then every 250 hours thereafter. **(Page 5-13)**
3. Check all battery connections and remove any corrosion present.
4. Drain water separator (if needed). **(Page 5-16)**
5. Check torque hub oil level. Refill if needed. **(Page 5-6)**
6. Lubricate grease fittings on the flight screw on both sides of the screed, the fitting on the depth screw, and the fittings on the flange bearings located on top of the extension screed. Grease nuts on extension screws. **(Page 5-7)**
7. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.



Every 100 Hour or Monthly Maintenance

1. Check and adjust conveyor drive chains. **(Page 5-8)**
2. Check and adjust conveyor flight chains. **(Page 5-8)**
3. Check auger drive chains, lubricate and adjust. **(Page 5-9)**
4. Check and adjust screed extension top guide. **(Page 5-9)**
5. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.

Every 250 Hours or Quarterly Routine Maintenance

1. Clean air filter. **(Page 5-13)**
2. Adjust engine drive belt. **(Page 5-14)**
3. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.

Every 500 Hours or Semi-Annual Routine Maintenance

1. Replace coolant.
2. Change engine oil and filter. **(Page 5-13)**
3. Change torque hub oil.
4. Replace engine drive belt. **(Page 5-14)**
5. Replace fuel filter. **(Page 5-15)**
6. Clean water separator. **(Page 5-16)**
7. Change the hydraulic oil and filter. **(Page 5-17)**
8. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.

Every 1000 Hours or Annual Routine Maintenance

1. Drain hydraulic tank and replace strainer.
2. Replace air filters. **(Page 5-13)**
3. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.

LUBRICATION

Torque Hub Lubrication

1. Remove the plug in the 3 o'clock position. **(Figure 5-5)**
2. If oil comes out, no oil is needed. Reinsert the plug and tighten.
3. If oil does not come out, remove the top plug and fill with SAE 90 WT gear oil until oil starts to appear at the 3 o'clock plug.
4. Replace both plugs and repeat process on the other torque hub.

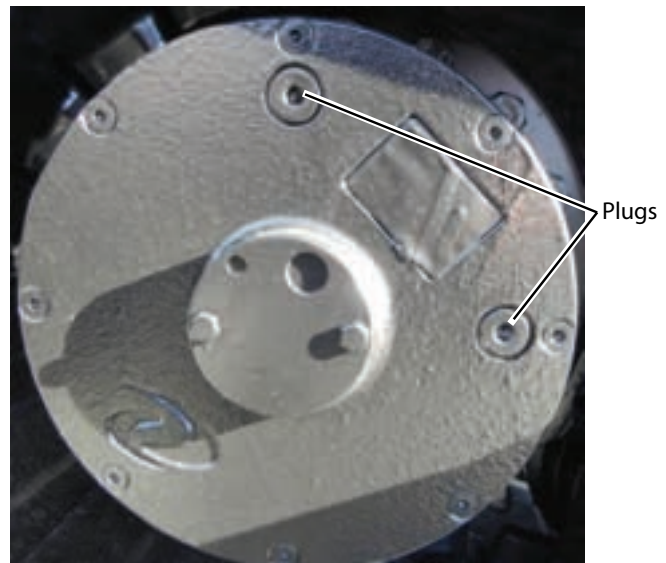


Figure 5-5. Torque Hub Plugs

NOTICE

Changing oil and cleaning the paver should only be done in a designated area where the oil and chemicals can be contained. Discard these by-products in accordance with environmental regulations.

Lubrication Points

Proper lubrication is necessary to maintain the LeeBoy Model 8510E Conveyor Paver at top efficiency. Refer to the lubrication information below:

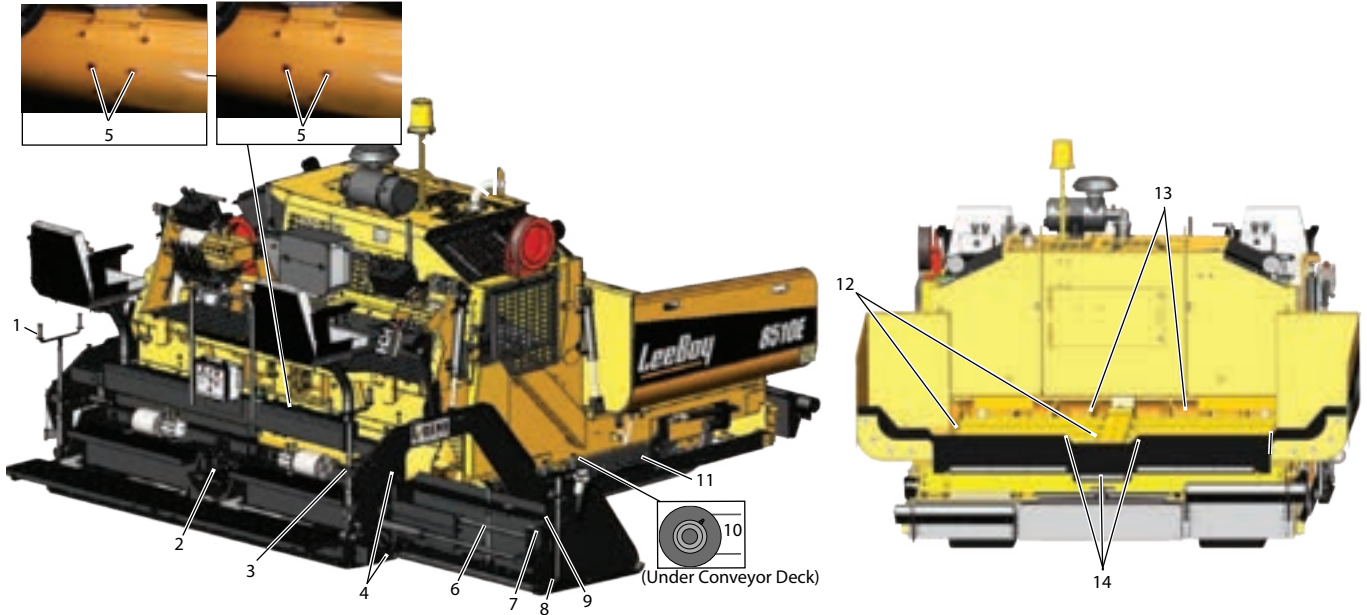


Table 5-2. Lubrication Points Schedule

ITEM NO.	TYPE LUBE	DESCRIPTION AND LOCATION	INTERVAL
	A	Grease With Shell Avania EP Grease 2 or Equivalent	
	B	Spray with Release or Chain Lube Agent	
	C	Spray with Copper-Based Anti-Seize Agent	
1	A	Depth screw (both sides). Grease first in locked position, unlock, and turn 180° to grease.	Weekly
2	B	Screed crown on chain.	Weekly
3	A	Slope cylinder pivot.	Weekly
4	A	Flange bearing and fitting on flight screw and flange bearing on T-handle of extensions (both sides).	Weekly
5	A	Grease fittings for auger inner bearings and end mounts. There are two fittings in the center and one on each end of the auger cover.	Daily
6	C	Screed extension slide bars (both sides).	Weekly
7	A	Tilt screws (both sides).	Weekly
8	A	Screed pivot.	Weekly
9	A	All screws and bearings on screed extensions (both sides).	Weekly
10	A	Conveyor pivot (under conveyor deck) on front of screed (both sides).	Monthly
11	B	Grease tracks between track pads daily for efficient operation.	Daily
12	B	Conveyor chains (both conveyors).	Daily
13	B	Auger (and auger chains).	Daily
14	B	Spray all parts of paver that come into contact with asphalt.	Daily

MAINTENANCE ADJUSTMENTS

Certain components of the paver need adjustments for optimum performance, operation and general maintenance.

WARNING Entanglement hazard! **DO NOT** run the engine while checking and servicing conveyor components. **NEVER** perform any adjustments while the engine is running.

Conveyor Flight Chain

The conveyor flight chains must be adjusted every 100 hours. If irregular movement of the conveyor occurs, an adjustment is needed regardless of the time interval.



Figure 5-6 Conveyor Flight Chain Adjustment

- 1 - Adjustment Bolt**
- 2 - Locking Nut**
- 3 - Hold-Down Nut**

There are four (4) adjustment bolts, two (2) for each conveyor. Use the following procedure to make this adjustment on both sides of the conveyor:

1. Raise conveyor bed and insert safety prop. (**Page 5-4**)
2. Loosen the hold-down nuts (one on each side of each adjustment bolt). (**Figure 5-6**)
3. Loosen each locking nut beside the adjustment bolt.
4. Turn each adjustment bolt alternately the same amount. For example, turn one bolt one half turn, then the other bolt one half turn, etc.
5. Continue alternating tightening to adjust to one (1) inch deflection: 1/2-inch up and 1/2" down between the front roller and first idler. (The pressure on the chain will be noticeable as the bolts are tightened.)

6. After the conveyor chain tension is set, retighten locknuts and bolts holding the flight chain assembly.

NOTE: If the adjustment bolt has reached its maximum adjustment level, remove two links in the conveyor chain and add a half link. This repair should bring the adjustment bolts back to full travel.

NOTICE Keep conveyor flight chain properly oiled with cleaning solvent or release agent during cold weather to keep conveyors functioning smoothly.

Conveyor Drive Chain

Keep chains clean, lubricated and properly adjusted. Inspect both drive chains at the rear track. If the chains are loose, adjustment is necessary.

1. Shut off paver.
2. Open engine access door on the side adjusting to locate the conveyor drive chain bolts. (**Figure 5-7**)
3. Loosen the jam nuts on the chain adjuster.
4. Turn the chain adjuster to loosen or tighten the chain, leaving approximately 1/4-inch of slack. **DO NOT** overtighten.
5. Retighten jam nuts.
6. Repeat steps on the opposite conveyor drive chain.

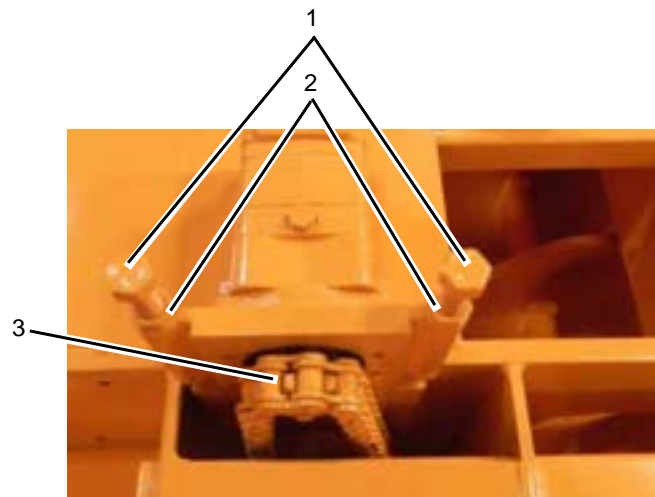


Figure 5-7. Conveyor Drive Chain Bolts

- 1 - Chain Adjuster**
- 2 - Jam Nuts**
- 3 - Conveyor Drive Chain**

Auger Drive Chain Adjustment

The auger chains should be snug, not loose. If the chains need to be tightened, follow this procedure:

1. Loosen the motor bolts on the right and left auger chains. **(Figure 5-8)**
2. Loosen jam nuts and turn the tension adjusters counterclockwise to tighten chains.
3. Once adjusted, retighten motor bolts and jam nuts.

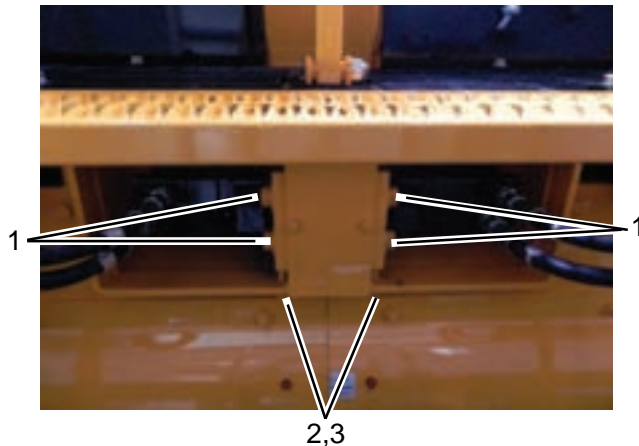


Figure 5-8. Conveyor Drive Chain Bolts

- 1 - Motor Bolts**
- 2 - Jam Nuts**
- 3 - Tension Adjuster**

Screed Extension Top Guide Adjustment

1. Retract both screed extensions completely using the left and right extensions switches on the control panel. **(Pages 3-6 to 3-7)**
2. Raise the screed approximately two (2) inches and insert a block to support the screed. Turn off the engine.
3. Loosen the top slide rail lock-down bolts. **(Figure 5-9)**
4. Tighten the top rail adjusting setscrews until all are snug, starting from the outside and working toward the center on each side of the slide rail.
5. Retighten the top slide rail lock-down bolts.
6. Loosen the top slide rail lock-down bolts and insert a .008-inch feeler gauge between setscrew and top slide rail. Adjust to obtain the .008 gap between all setscrews and top rail.
7. Loosen all top slide rail lock-down bolts, allowing the slide rail to contact all setscrews. Retighten all lock-down bolts and torque to 90 ft lbs.
8. Lubricate slide rails and plate with copper-based anti-seize agent.
9. Check operation. See your authorized dealer for assistance if needed.

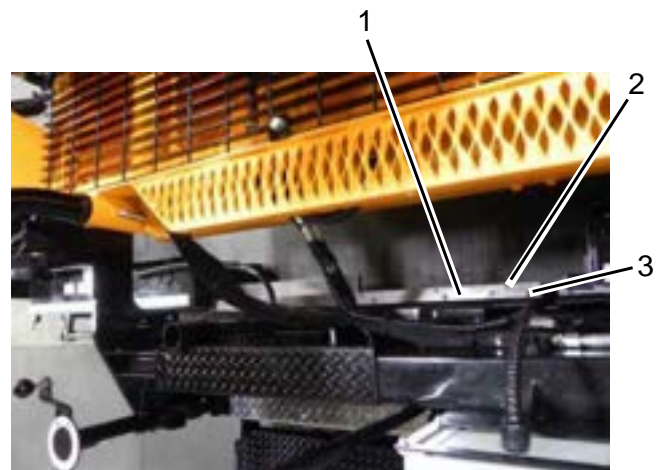


Figure 5-9. Screed Extension Top Guide Adjustment

- 1 - Screed Extension Top Guide**
- 2 - Setscrews**
- 3 - Lock-Down Bolts**

Torque Hub Hydraulic Motor Gear Adjustments

NOTICE Torque hub hydraulic motors are calibrated and set at the factory. These adjustment should only be performed by an authorized LeeBoy dealer. Work not performed by an authorized dealer can damage machine and void the warranty.

The low gear adjustment must be made to the slow side drive motor only. The low gear adjustment screw is located on the bottom of the drive motor. Make only small adjustments at a time.

Your authorized LeeBoy dealer will perform the tracking adjustment on the high side gear by adjusting the screw on the top of the hydraulic motor. This adjustment on the motor for the fast track must be screwed in to equalize track speed.

Your LeeBoy dealer will perform the following procedure to adjust either gear:

1. With paver running, push the 2-Speed switch:
 - Set switch to the LOW position if adjusting low gear. (The blue 2-Speed light should not illuminate.)
 - Set the 2-Speed switch to the HIGH position if adjusting high gear. (The blue 2-Speed light will illuminate.)
2. Adjust screw (on bottom of the hydraulic motor for low gear; on top for high gear) until you feel back pressure on the adjustment screw. This indicates the correct adjustment is close.
3. Finalize adjustment by making a one-quarter (1/4) turn at a time until the correct adjustment is accomplished. Recheck tracking.

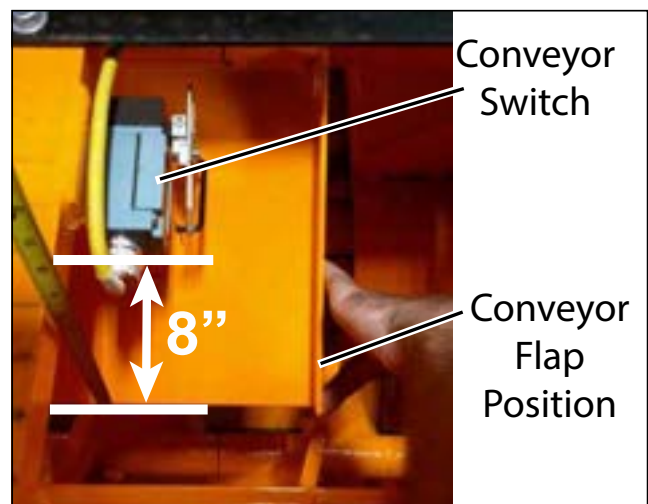
NOTE: If hydraulic motor has not been previously set, ten revolutions of the adjustment screw may be required before noticing any difference in travel.

Conveyor Switch Adjustment

Small adjustments may be necessary to conveyor switch for optimum conveyor performance. (Figure 5-10) There are two positions of the conveyor flap: One upper, shutting the conveyor OFF; and one lower, turning the conveyor ON.

- When correctly adjusted, the conveyor shuts off when the paddle is approximately eight (8) inches (20.3 cm) from the top of the conveyor switch to the bottom of conveyor paddle; and turns on when the paddle drops to approximately 12 inches (30.5 cm).

OFF Position



ON Position

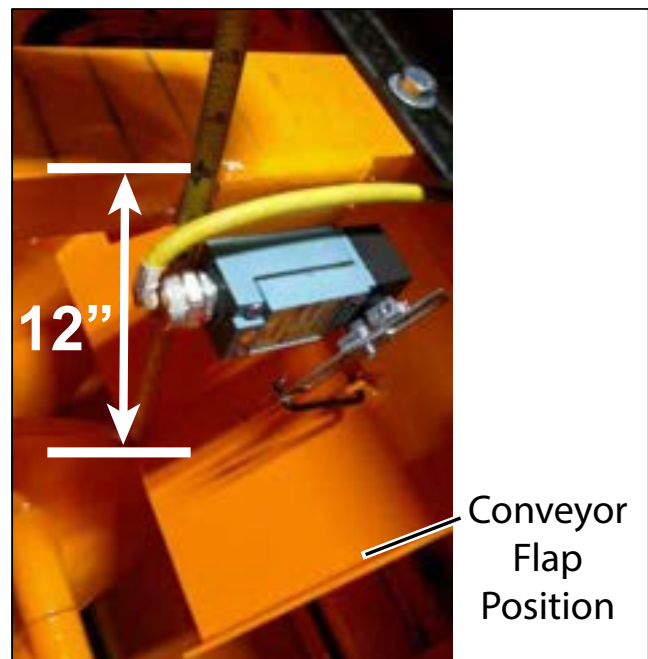


Figure 5-10. Adjustment Measurements

Check Adjustment

1. Remove the upper walkboard grate.
2. Raise the conveyor flap eight (8) inches (20.3 cm) from the bottom of the channel.
3. Secure conveyor flap so it remains in this position.
4. Check the conveyor switch.
5. If the switch clicked OFF, no further adjustment is required to the upper flap.

Adjust Conveyor Switches

If the conveyor switch did not click OFF, adjustment is needed:

1. Remove the linkage attaching the actuator arm to the eyelet on the flap pivot housing.
2. Loosen Setscrew A on the actuator arm. **(Figure 5-11)**
3. Reposition this arm by either rotating it clockwise or counterclockwise, depending upon where the conveyor switch clicked OFF during the conveyor flap upward travel.
4. When the switch clicks OFF, tighten setscrew and reconnect linkage.
5. Repeat procedure for the lower flap.

If the lower flap switch did not click OFF:

1. Loosen Setscrew B. **(Figure 5-11)**
2. Slide the actuator arm IN or OUT to bring the travel limits into tolerance.
3. This may require several adjustments before the correct position is obtained.
4. When the actuator arm is in the correct position, tighten Setscrew B.

NOTE: The factory setting is one inch (2.54 cm) from the center of Setscrew B to the eyelet on the actuator arm.

NOTE: The setting from the factory is 1 in. (2.54 cm) from the center of the setscrew "B" to the eyelet on the actuator arm.

5. To bring the travel limits into tolerance, slide the actuator arm in the direction desired. This may require several adjustments before the correct position is obtained. When the actuator arm is in the correct position, tighten setscrew "B". No further adjustment is necessary.

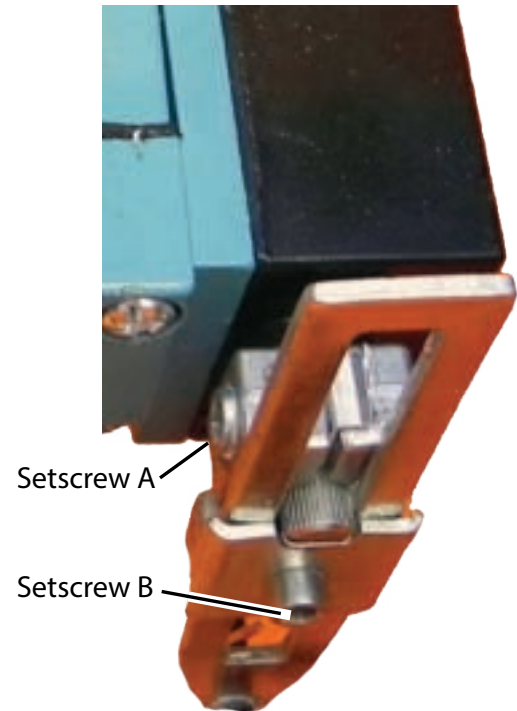


Figure 5-11. Actuator Arm - Setscrew A and B

Track Tension Pressure Relief

The hydraulic adjustment cylinders are automatic and provide even tension on the tracks to prevent excessive wear to the paver's undercarriage. The track tension main manifold is mounted on the back side of the lower hydraulic tank in the conveyor bed.

The track hydraulic pressure is set at 1500 PSI at the track tension main manifold.

To check pressure, locate the track tension main manifold in the conveyor bed and perform the following procedures:

1. Raise conveyor bed. **(Page 5-4)**
2. Connect a 2000 PSI gauge inline with either Port A or Port B on the track tension main manifold. **(Figure 5-12)**
3. Place a Porta Power between the front idler and frame to release pressure on the idler.
4. Increase the Porta Power pressure until the front idler cylinder compresses.
5. Pressure should read 1500 PSI.
6. If the pressure is not correct, remove cap on the relief cartridge valve. Using an allen wrench, adjust the relief cartridge valve IN for more pressure or OUT for less pressure until the PSI gauge reads 1500 PSI.
7. When the pressure gauge reads 1500 PSI, disconnect Porta Power and gauge.

NOTICE Do not tamper with the adjustment part of the relief cartridge valve.

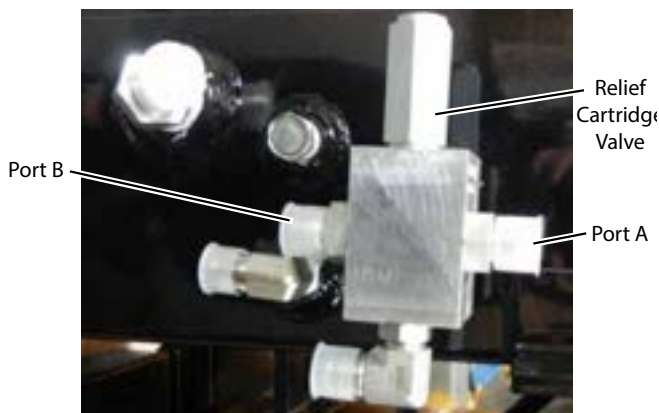


Figure 5-12. Track Tension Main Manifold

ENGINE MAINTENANCE

These general maintenance procedures are most often required for the engine. Refer to the Engine Operator's Manual for more specific maintenance information and procedures.

Check Engine Lubrication Oil

The engine lubrication oil must be kept at a level above the ADD mark, but not above the FULL mark, on the engine lubrication oil dipstick.

WARNING DO NOT check the oil while the engine running. Hot oil can spew and cause serious personal injury.

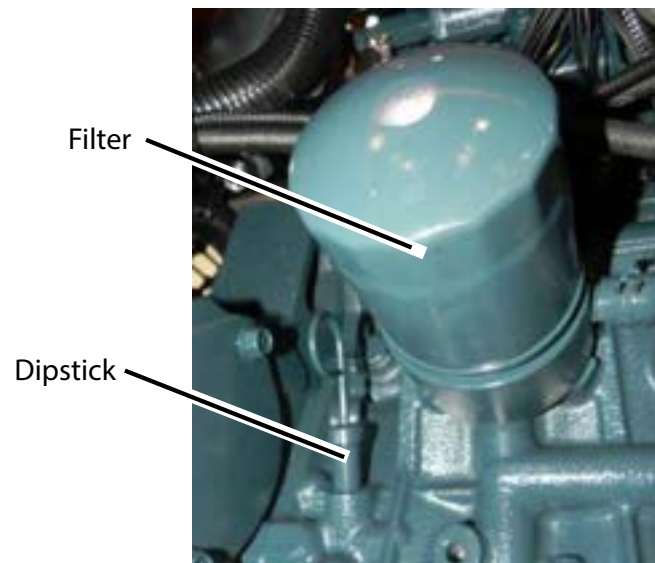


Figure 5-13. Engine Oil Dipstick and Oil Filter

To check the engine lubrication oil level:

1. Park the machine on a level surface and turn off the engine.
2. Wait five minutes to allow the oil to return to the oil pan so you can obtain an accurate measurement of the engine oil level.
3. Clean the area around the engine oil dipstick before removing it from the engine. **(Figure 5-13)**
4. Remove the dipstick from the engine and checking the oil level. The oil level should be above the ADD mark--but not above the FULL mark--on the dipstick.
5. Add oil if needed.

Change Engine Oil and Filter

The engine lubrication oil and oil filter must be changed at the same time.

To change the engine lubrication oil:

1. Park the paver on a level surface and turn off the engine.

WARNING Change the engine lubrication oil while the engine is WARM, not hot. Hot oil can cause serious personal injury.

2. If needed, wait until the engine lubrication oil has cooled a little. Oil should be warm, not hot.
3. Locate oil drain hose on right side of the paver.
4. Place a container large enough to hold 15 quarts (14.2 liters) of oil underneath the drain hose.
5. Remove cap on end of the hose and drain all engine oil into the container.
6. Reinstall cap back onto the hose and reinsert hose back into place.
7. Fill the engine with 15 quarts (14.2 liters) of oil at the oil fill cap.
8. Check oil level using the oil dipstick.
9. Dispose of used oil in accordance with local and federal environmental laws.

NOTICE DO NOT change the engine lubrication oil filter while the engine is running. Serious engine damage will occur.

Use the following procedures to change the oil filter:

1. Wipe the area around the oil filter and its mounting base with a clean cloth.
2. Place the empty container under the filter element.
3. Use a filter removal wrench to remove the filter, turning counterclockwise.
4. Drain and discard the oil filter in accordance with Step 9 above..

NOTE: Discard the used rubber gasket with the filter element.

5. Wipe inside the oil filter head using a clean, lint-free cloth.
6. Rub a little oil on the rubber gasket area of the new filter element.
7. Fill the new filter with fresh oil.
8. Install the new filter element onto the filter head. Carefully tighten the filter (by hand only).

Change Air Filter

NOTICE Never operate the engine without an air filter installed. Severe damage to the machine will occur.



Figure 5-14. Air Filter Cover

To change the air filter elements:

1. Unclamp and remove air filter cover. (Figure 5-14)
2. Remove the primary and secondary air filter elements. Discard.
3. Clean the inside of the air cleaner body with a clean cloth.
4. Install new air filter elements inside the canister.
5. Reclamp cap onto the air filter cover.
6. Check clamps to ensure filter elements are tight and filter elements are making proper contact.
7. Start engine. If engine does not run smoothly, recheck filter element contact.
8. Install new air filter elements inside the canister.
9. Reclamp cap onto the air filter cover.
10. Check clamps to ensure filter elements are tight and filter elements are making proper contact.
11. Start engine. If engine does not run smoothly, recheck filter element contact.

Engine Drive Belt

Adjust the engine drive belt every 250 service hours and replace it every 500 hours. Regardless of the maintenance interval, the engine fan belt should be replaced if it appears frayed or cracked. This belt drives the alternator and the cooling fan.

NOTE: If the fan belt is loose or damaged, and/or the fan is damaged, it can result in overheating or insufficient charging. Replace the fan belt and any other damaged components immediately.

WARNING Engine must be turned off and the key removed before checking, adjusting or replacing the fan belt to avoid personal injury or even death.

To adjust or replace the belt:

1. Turn off engine and remove the key. Block the wheels to prevent movement while working on the machine.
2. Remove the safety shield. (Figure 5-15)
3. Apply moderate thumb pressure to the belt between the pulleys to gauge tension.
4. If tension is incorrect, loosen the alternator mounting bolts and place a lever between the alternator and the engine block.
 - If adjusting the belt, pull the alternator out until the deflection of the belt (when pressed in the middle of the span) falls within .39 to .47 inches (10 to 20 mm).
 - If replacing the belt, remove worn belt and replace with new fan belt.
5. Retighten the alternator bolts and reinstall safety shield.

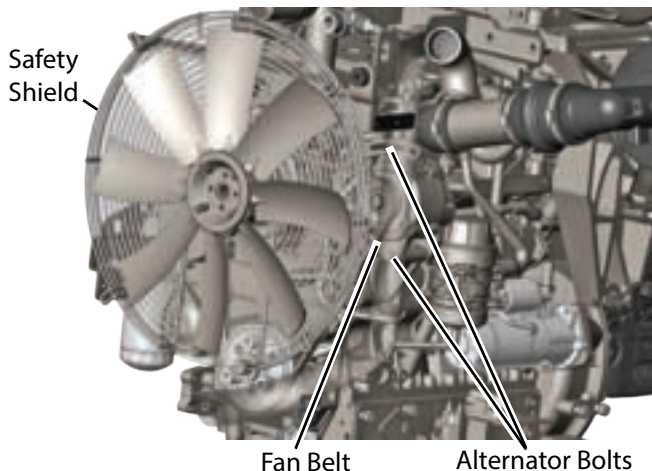


Figure 5-15. Engine Belt

DPF Service

The DPF (Diesel Particulate Filter) is designed to burn trapped particulate matter automatically or via operator-induced regeneration. The longer the DPF runs, the more ash (burnt residue) is collected on the filter. Too much residue adversely affects DPF performance, therefore, see your authorized dealer for professional cleaning (or replacement) if needed.

Do not be alarmed if you notice white exhaust from the exhaust pipe at start-up or when speeding up. White exhaust or water may come out during cold weather or after long-hour idling due to condensation.

If DPF regeneration occurs frequently, i.e., five hours or shorter, on a routine basis, change the oil. If this condition continues after an oil change, contact your authorized dealer for service. (Refer to your Engine Operator's Manual for service information.)

NOTICE Don't idle machine any longer than necessary as too much idling can cause soot to build up in the Diesel Particulate Filters (DPF), requiring more frequent regeneration.

NOTICE To reduce the amount of soot and maximize DPF efficiency, use API-CJ4 (or ACEA-E9 European equivalent) engine oil. Running the engine at 1800 RPMs will also provide more efficient operation and allow automatic regeneration more efficiently while paving.

FUEL SYSTEM

Fuel Tank

The fuel level is indicated on the digital display fuel gauge. Use only ULSD (ultra low sulfur diesel) fuel and always fill the fuel tank at the end of the work day to prevent condensation. The green fuel cap is located on the right side of the paver in front of the spraydown hose reel. **(Figure 5-16)**

NOTICE Fill up with low-sulfur diesel fuel at the end of the day to reduce condensation in the tank.

WARNING Diesel fuel is highly **FLAMMABLE**. **DO NOT** smoke while filling the fuel tank. Fill the fuel tank in a designated area that provides proper ventilation with a fire extinguisher available.

WARNING Explosion Hazard! Never fill the fuel tank near an open flame, or near equipment that can create sparks. Never check fuel level or fuel system components near an open flame.



Figure 5-16. Fuel Cap

To fill the fuel tank:

1. Stop engine.
2. Remove fuel cap from fuel tank.
3. Fill with diesel fuel until full.
4. Replace fuel cap.

Change Fuel Filter

The fuel filter, water separator and fuel pump with bowl filter are conveniently located together on the engine access door in the hopper. **(Figure 5-17)**

NOTE: The fuel filter is a 1-micron filter that can **ONLY** be purchased from LeeBoy or Kubota engine dealers. Using any other fuel filter will cause fuel system failure/damage, and will void the warranty.

NOTICE Tighten the fuel filter as directed on by the filter manufacturer. **DO NOT** overtighten the fuel filter element onto the filter head.

WARNING Explosion Hazard! Stop the engine immediately if any fuel leakage is noted. **DO NOT** start the engine until the leak has been corrected. Replace the fuel filter using the following general procedure.

1. Stop the engine and allow it to cool.
2. Put a container under the filter before removing it.
3. Wipe the area around the fuel filter and mounting head using a clean, lint-free cloth.
4. Use a filter removal wrench to loosen and remove the filter by turning it clockwise. **(Figure 5-17)**

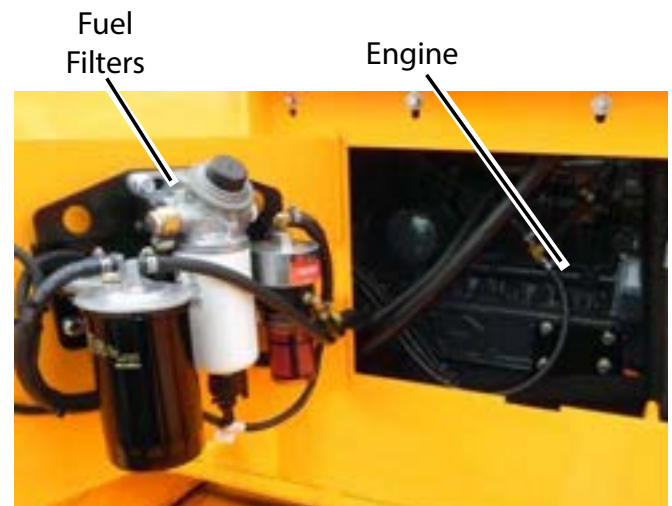


Figure 5-17. Fuel Filters, Pump and Water Separator

1 - Fuel Filter

2 - Fuel/Water Separator

3 - Fuel Pump w/Bowl Filter

5. Drain and discard the removed filter in compliance with local and federal environmental laws.
6. Wipe inside the filter head with a clean, lint-free cloth.

NOTE: **DO NOT** use a can or other container to fill fuel filter to prevent contamination. The filter will be filled via electric lift pump or manual pump on the fuel water separator.

7. Wipe a little fuel on the rubber gasket.
8. Install the new fuel filter element onto the filter head, carefully tightening the element by hand.
9. Start the engine and check for any fuel leaks.

Water Separator

Water and dirt that gets into fuel settles into the water separator. **(Figure 5-18)** As it collects, a red float rises. When the float reaches the line on the separator, an error code will appear on the PV480 digital display. It is important to drain it immediately.

NOTICE If you run out of fuel, it is important to pump the water separator to prime fuel injection lines. Failure to do so can adversely affect performance.

To drain the water separator:

1. Pull retainer clip from plug to disconnect the harness.
2. Unplug the harness, then unscrew the plug.
3. Drain and reinsert components.



Figure 5-18. Water Separator

- 1 - Pump
- 2 - Filter Body
- 3 - Plug
- 4 - Clip

To clean the water separator:

1. Follow the previous steps for draining the water separator.
2. Loosen and remove the filter body and clean it with light oil.
3. Reinsert and tighten.

HYDRAULIC SYSTEM

Check Hydraulic Oil

The hydraulic motors and hydraulic cylinders use the same hydraulic oil reservoir and hydraulic oil supply.

NOTICE Take care when working with the hydraulic system to ensure it is completely clean.

NOTICE Never allow the hydraulic oil level to fall too low. Pump damage will occur.

Check the hydraulic reservoir oil level daily using the sight gauge on the left side of the paver. **(Figure 5-19)**

Check the hydraulic oil level when the hydraulic oil is at normal operating temperature for an accurate reading.

If the hydraulic oil level falls below the bottom line (red or black in color), add more hydraulic oil.

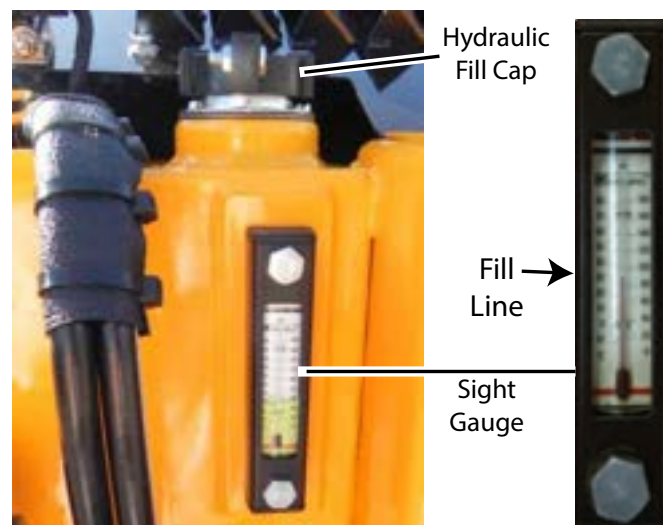


Figure 5-19. Hydraulic Oil Cap and Sight Gauge

WARNING DO NOT loosen or remove the hydraulic oil fill cap when the hydraulic oil is hot. Always loosen the cap slowly to relieve any pressure in the hydraulic oil reservoir.

- Slowly unscrew the hydraulic oil fill cap and add hydraulic oil. **(Figure 5-19)**
- DO NOT use unfiltered hydraulic oil.
- Check the hydraulic oil level using the sight gauge.
- Keep the hydraulic oil filled to the correct level.

NOTICE DO NOT overfill the hydraulic oil reservoir.

NOTICE Leeboy uses a lead-detection dye that may turn the hydraulic oil a slight yellow tint.

Change Hydraulic Oil and Filter

Changing the hydraulic oil removes the accumulation of dirt, water and mechanical wear particles from the hydraulic oil system. Clean, filtered oil is critical to optimize hydraulic system operation. The hydraulic oil system holds approximately 67 gallons (254 liters).

NOTICE Contaminated hydraulic oil can shorten the expected service life of components in the hydraulic system.

WARNING DO NOT drain the hydraulic oil when it is hot. Hot hydraulic oil can cause serious personal injury.

WARNING Protect your eyes by wearing safety glasses when working on hydraulic system components.

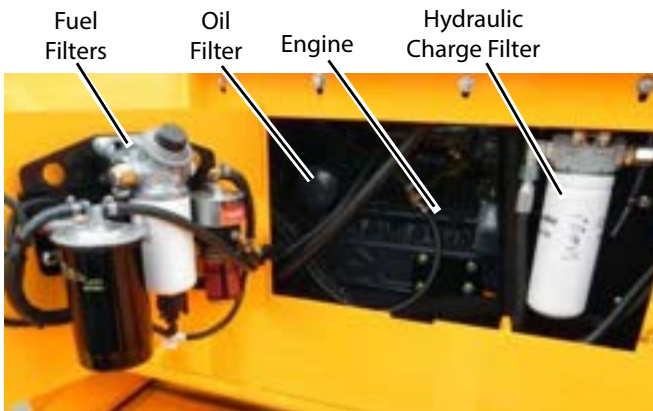


Figure 5-20. Hydraulic Charge Filter

Use the following procedures to change the hydraulic oil and charge filter:

1. Stop the engine.
2. Allow the hydraulic oil to cool until it is at a warm temperature.
3. Slowly remove the hydraulic oil strainer fill cap. Do not remove the strainer portion under the cap.
4. Place a clean, lint-free cloth over the reservoir fill tube opening and secure in place with tape.
5. Carefully remove the plug from the bottom of the hydraulic tank.
6. Allow all the hydraulic oil to drain from the hydraulic tank.
7. Reinstall the hydraulic oil drain plug and tighten securely. Close valve.
8. Change the hydraulic charge filter by turning filter counterclockwise, then replace with new filter turning clockwise until snug (by hand only). **(Figure 5-20)**
9. Carefully remove the cloth from the hydraulic oil reservoir fill tube opening.
10. Remove the strainer. Replace if necessary.

NOTICE DO NOT fill the hydraulic oil reservoir with new hydraulic oil until the strainer inside the fill cap has been serviced.

11. Fill the hydraulic oil tank with filtered hydraulic oil. The cold oil level should be about 1/2-inch below the fill level black line on the sight gauge. **(Figure 5-19)**
12. Reinstall the hydraulic oil strainer filler cap and tighten the three wingnuts securely.
13. Start the engine and check the hydraulic system for possible leaks.

WARNING DO NOT use your hands on any hydraulic hoses, fittings or system component when checking for leaks. Serious personal injury can result from an oil leak under high pressure. Oil can be injected under the skin by high pressure. Protect the eyes by wearing safety glasses.

CAUTION Stop the engine immediately if any hydraulic leak is noted. DO NOT start the engine until any problem noted has been corrected.

ELECTRICAL SYSTEM

The electrical system is a 12-volt negative ground system. Connect the positive (+) cable to the positive (+) post of the battery. Connect the ground cable to the negative (-) post of the battery. It is advisable to disconnect the negative (-) cable first and connect it last. Reversed polarity can damage the electrical system.

WARNING Fire and Explosion Hazard! Always observe battery polarity when connecting a battery charger or jumper cables to the battery: negative (-) to negative (-), positive (+) to positive (+). Failure to do so can produce sparks.

When connecting a booster battery, connect one end of the first jumper cable to the positive (+) terminal of the dead battery and the other end to the positive (+) terminal of the booster battery. Connect one end of the second jumper cable to the negative (-) terminal of the booster battery and the other end to the frame of the paver with the dead battery.

WARNING Fire and Explosion Hazard! Be sure that the battery charger is in the OFF position before connecting it to the battery.

Be sure to keep the battery fully charged during cold weather to keep it from freezing. Freezing weather has little effect on a fully-charged battery. (Figure 5-21)

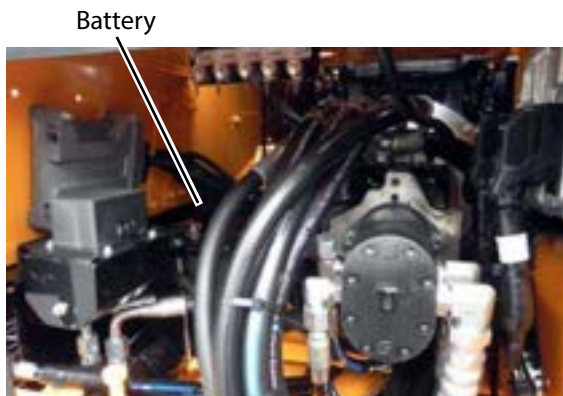


Figure 5-21. Battery Location

NOTICE ALWAYS turn the master battery switch off when working on the electrical system or welding anywhere on the machine. Damage to electrical components could result.

Battery Servicing

WARNING Batteries contain sulfuric acid. ALWAYS wear safety goggles and protective clothing when servicing the battery.

WARNING NEVER allow battery fluid to come into contact with clothing, skin or eyes. If battery fluid contacts the eyes or skin, immediately flush with clean water and obtain prompt medical treatment.

WARNING Keep sparks and flames away from the batteries as electrolyte gas is highly flammable.

1. Remove the rear access cover to access the battery.

NOTE: When replacing the battery, discard the old battery properly.

2. Before connecting the battery, turn off the master switch, located under the operator control panel. (Figure 5-22)



Figure 5-22. Battery Master Switch

3. Be certain that battery terminals and posts are clean and that the battery cable terminals are tight.

NOTICE Dirty or loose battery connections can create high electrical resistance and permit arcing.

4. If corrosion is present around terminal connections, remove and wash with ammonia or a solution of 1/4-pound (.11 kg) baking soda added to one quart of warm water. Ensure the vent caps are tight to prevent solution from entering the cells.
5. Pour clean water over the battery and surrounding area to rinse away the solution.
6. Check vent cap breather openings to ensure they are clear.

Alternator

The alternator supplies electrical power to electronic controls and charges the battery. Its built-in regulator controls voltage output. **(Figure 5-23)**



Figure 5-23. Alternator

Use the following precautions to prevent damage to the alternator or regulator:

- Never polarize the alternator.
- Never ground any alternator terminals or circuits.
- Always disconnect the battery before disconnecting or connecting the alternator.
- Never disconnect the alternator while machine is operating.
- Ensure wiring is properly connected before connecting the battery.
- Always connect a booster battery in the proper polarity: negative (-) to negative (-) and positive (+) to positive (+).

Electric Heat Control Box (Option)

The electric heat control box contains the element breakers and main outputs for the screed heating system. Powered at 240 VAC, each element has two circuit breakers. **(Figure 5-24)** Refer to the electrical schematic in **Section 6** for detailed information.

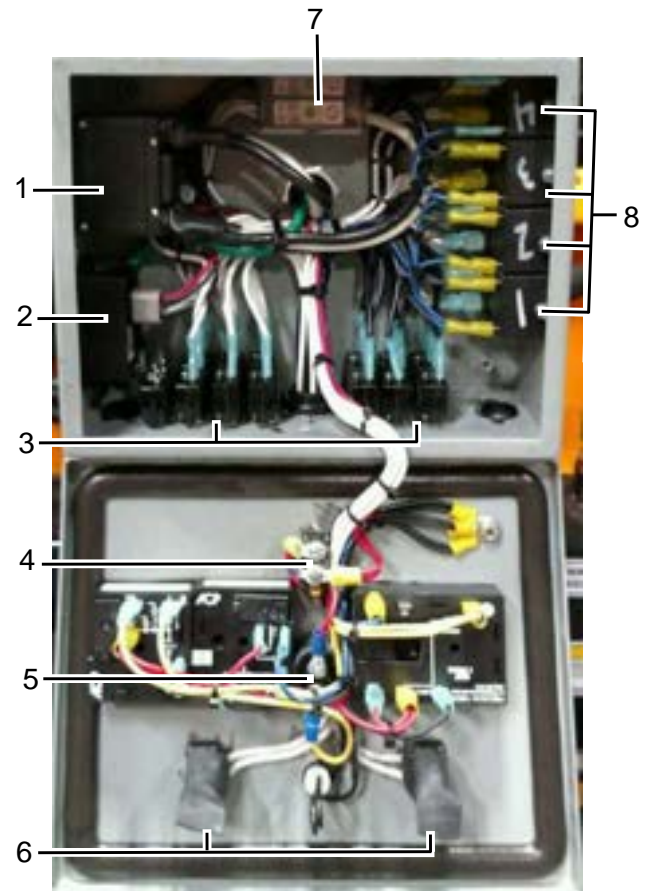


Figure 5-24. Electric Heat Elements

- 1 - Generator Circuit Breaker**
- 2 - Generator Speed Controller**
- 3 - Element Circuit Breakers**
- 4 - Power On Toggle**
- 5 - Heat On Button**
- 6 - Toggle for Left/Right Endgates**
- 7 - Wire Junction Block**
- 8 - Heating Element Relays**

Maintenance

The control box consists of the major components shown in **Figure 5-24**.

- The system timers, located on the control box cover.
- The element breakers are located in the lower surface of the box.
- The other block in the center is used as a wire junction block only.

NOTE: Control boxes are manufactured to fit all screed and paver combinations. If not all plugs are connected to wires, it may be normal. Be sure to keep unused plugs covered with mating protective caps.

- Each element output consists of two wires--one connects to the L-1 circuit and the other to the L-2 circuit. **(Figure 5-24)**
- Each breaker has two terminals--one is connected to the main input and the other terminal to an element output wire.
- The L-1 circuit is the left bank of element breakers.
- The L-2 circuit is the right bank of element breakers.

Heating element relays “make” or “break” the circuit to each element to start or stop the heating cycles. When the HEAT ON button is depressed, 12VDC is momentarily applied to the main timer relay to start the timing cycle.

Element Resistance Testing

The breakers are wired into each leg of each element. If an element has a fault, either in the wiring, or in the element itself, the breaker will trip and power will no longer be applied to that leg of the element.

When a breaker in the control box has “tripped,” there may be a problem in the wiring or an element in the circuit.

The breakers can be manually reset by depressing the trip button back into place when they are extended. If the breaker still does not reset, you need to test or possibly replace an element.

If the element is functioning correctly, you should read a resistance between the connector pins when testing. A faulty element will show high resistance, indicating a bad element. Refer to the following resistance table and element testing procedure:

Table 5-7. Element Resistance Table

Item	STD Legend Screed	HD815 Screed **
Generator Size (kW)	10 kW	10 kW
Breaker Size	40 Amp	40 Amp
Main Screed Elements (2)		
Wattage Per Element	1750 W	2000 W
Total Wattage	3500 W	4000 W
Resistance per Element	24.3 - 26.8 Ω	26 - 32 Ω
Screed Extension Elements (2)		
Wattage Per Element	1000 W	1000 W
Total Wattage	2000 W	2000 W
Resistance per Element	42.5 - 46.8 Ω	62.6 - 32 Ω
Heated Endgate Elements (2) **		
Wattage Per Element	N/A	500 W
Total Wattage	N/A	1000 W
Resistance per Element	N/A	88.5 - 108 Ω

**** Option item.**

To test the element:

1. Disconnect elements one at a time from the connection point on the lower side of the control box, keeping track of connector placement.
2. Using an ohm meter, test the resistance through the element between the two pins in the plug. **(Figure 5-25)**

NOTE: You do not have to test the plug attached to the lower side of the control box.

3. Before replugging the element, check each wire pin with an ohm meter test lead, placing the lead on a steel section of the screed frame. If there is any continuity through the element to the frame, the element must be replaced.

WARNING DO NOT operate an element with a known electrical shortage. Replace faulty elements and wiring immediately.



Figure 5-25. Plug

Heating Elements

Each heating element is sized to fit properly and provide sufficient heat to the screed plate. Elevated temperature prevents mix from sticking to the lower surface of the screed plate.

An element assembly consists of four main components:

- The element.
- The wire protector adapter.
- The wire protector.
- The two-pin wire plug at the end of the element protector.

Each element is covered by a thin strip of insulation to keep heat from escaping. A support bar and shield protects the element assembly.

Each element is clamped onto the screed plate to provide a positive and efficient connection. Enough pressure should be applied to the element assembly to sufficiently hold it securely against the screed plate surface.

To remove an element:

1. Remove top cover from the extension screed plate.
2. Loosen all the clamping studs over the element.
3. Remove and replace element.
4. After tightening the clamping stud, lock the clamp by tightening the stud jam nut.

Generator

Voltage Testing

The generator is hydraulically-driven and runs continuously during operation to keep it cooled when the load drops. When the hydraulic system is at normal operating temperature and the engine is running at maximum RPMs, the generator produces 240 VAC.

The generator voltage depends upon speed (RPMs), increasing voltage as RPMs increase and decreasing voltage as RPMs decrease. The voltage will decrease significantly if the engine speed is slower than 1800 RPMs.

NOTE: When testing the generator voltage ensure the paver engine is at 1800 - 2200 RPMs, and the hydraulic temperature is at normal operating levels.

Test the generator voltage at the generator and at the control box using the following procedure:

1. Use a volt meter to measure between the two main input wires L-1 (black wire) and L-2 (white wire) at the generator. **(Figure 5-26)** If you measure from L-1 to the frame of the paver, or ground, the voltage will be half the rated output of the generator.
2. Using the volt meter, measure between the black and white input wires inside the control box on the terminal block. The voltage should be the same as what you measured at the generator.

If the voltage is lower, make certain the generator is turning the correct speed by testing with a Hz meter or photo tachometer. If the voltage is still low, contact your authorized LeeBoy dealer for generator speed tuning (see next section).



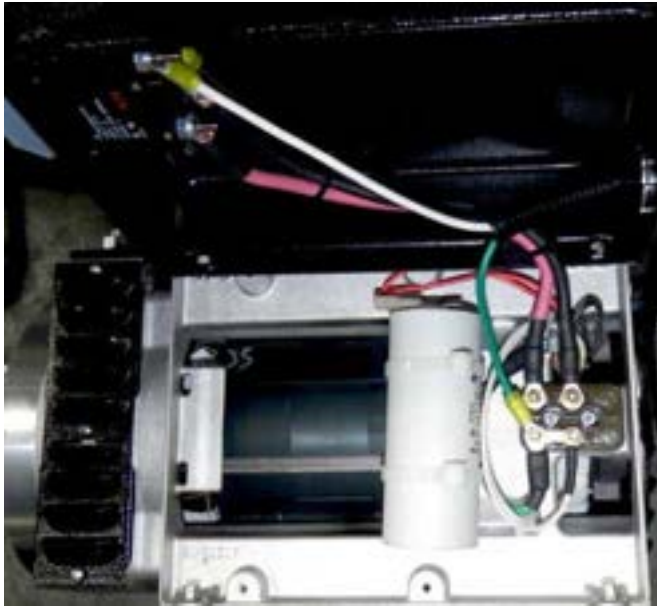


Figure 5-26. Generator

Generator Speed Check

NOTICE The generator should never be operated at a speed of 3800 RPMs or greater.

A voltmeter set to read frequency (Hz) can be used to test generator speed. When the engine is running at 1800 - 2200 RPMs, the generator should operate at 60 Hz. Make certain that the paver engine is running at 1800 - 2200 RPMs and the hydraulic temperature is at normal operating levels.

Generator Capacitor

The generator capacitor controls and regulates voltage while the machine operates. If the capacitor fails, the voltage will drop below normal or no output at all. It is located under the generator cover.

If experiencing a drop in voltage, replacing the capacitor will help determine if the capacitor is at fault.

To perform this procedure:

1. Shut down the machine.
2. Detach the wires on top of the capacitor.
3. Remove the capacitor and replace with new one.
4. Reattach wires.

Dielectric Grease

Dielectric grease is a nonconductive, insulating compound applied to electrical connectors. When applied correctly, a high-quality dielectric grease displaces debris and moisture in the connector. The proper application of dielectric grease fills any gaps between pins or in the connector which prevents debris and moisture from creating corrosion of the electrical components.

CAUTION Equipment damage can occur if using low-quality, incompatible dielectric grease.

If not applied or incorrectly applied, corrosion can result that causes rapid increase in resistance, intermittent connections, overheating, and a variety of electrical problems. Numerous electrical issues throughout the machine can be avoided by the proper application and use of dielectric grease.



Figure 5-27. Correct Application of Dielectric Grease

To correctly apply dielectric grease:

- Apply a thin, visible, uniform coat using **ONLY** high-quality dielectric grease (Dow Corning 4 or equivalent) across the **MALE** connector as shown in **Figure 5-27**.
 - Coating too thin may not fill the gaps between pins.
 - Coating too thick may prevent proper connection or force pins or seals out. (**Figure 5-28**)
- Plug in the male connector.

CAUTION DO NOT force connector to lock if too much grease has been applied.

CAUTION Excessive grease application does not allow a proper connection by preventing the plugs from locking into place, and can cause damage to the connector seals.



Figure 5-28. Incorrect Application of Dielectric Grease

REPLACEMENT PROCEDURES

Front Idler

Follow this procedure for replacing the front idler (**Figure 5-29**):

1. Raise conveyor and insert safety prop. (**Page 5-6**)

NOTE: Perform this additional step for poly or steel tracks only: Locate track tensions manifold and back the relief cartridge out of the aluminum block about three turns until you hear the tension pressure release.

2. Rotate the track so the master pin is at the rear bottom of the front idler.
3. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure.

DANGER Crush hazard! Always use safety blocks in addition to jack when working under the paver to prevent serious injury or even death.

4. Remove the clip pin from the cylinder rod and idler bracket. Idler will slide out.
5. Remove the idler bracket and bolt to the new idler.
6. Install idler, ensuring cylinder and clip pin are aligned properly.
7. Lower sprocket back down toward the track chain, ensuring the sprocket is about one (1) inch (2.54 cm) from the chain.

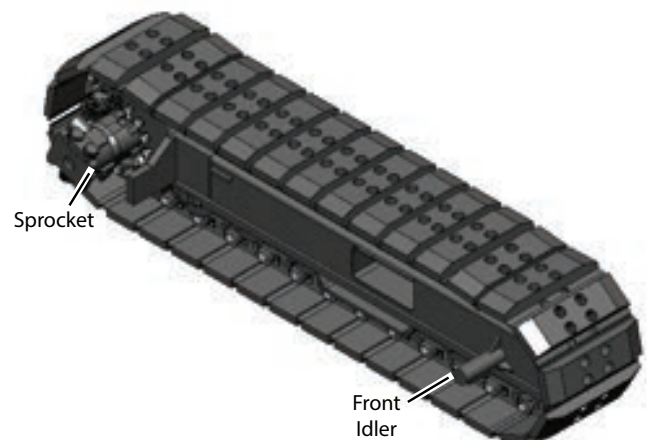


Figure 5-29. Front Idler

Perform these additional steps for poly or steel tracks only:

- Check that the track chain is full seated with the drive sprocket and rollers are aligned with chain center.
- Tighten the tension relief.
- Lower paver to ground, remove jack and start machine. Track tensions will automatically adjust when the machine is started.
- Ensure the track chain remains fully seated with the drive sprocket and rollers still aligned with the chain center.

Track Tension Cylinder

1. Follow Steps 1-4 in the previous section. The track tension cylinder is located behind the front idler. **(Figure 5-29)**
2. Pull the track tension cylinder toward the front to remove the hose from the bottom of the cylinder.
3. Repack with the seal kit, or replace cylinder (if worn) and reinstall.
4. Install idler, ensuring cylinder and clip pin are aligned properly.
5. Lower sprocket back down toward the track chain, ensuring the sprocket is about one (1) inch (2.54 cm) from the chain.

Track Rollers

1. Raise conveyor and insert safety prop. **(Page 5-6)**
2. Turn the track tension relief valve three (3) turns (or until you hear the pressure release).
3. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure.

DANGER Crush hazard! Always use safety blocks in addition to jack when working under the paver to prevent serious injury or even death.

4. Remove the faulty rollers and replace with new ones.
5. Torque bolts to 90 ft lbs (122 N•m).
6. Ensure the track chain is fully seated with the drive sprocket and rollers are aligned with chain center.

7. Retighten tension relief.
8. Lower paver to the ground and start machine. Track tension will automatically adjust when machine is started.
9. Ensure the track chain remains fully seated with drive sprocket and rollers aligned with the chain center.

Track Sprocket (Steel or Poly)

1. Raise conveyor and insert safety prop. **(Page 5-6)**
2. Rotate the track master pin to the bottom of the sprocket.
3. Release track tension by screwing the relief cartridge out of the manifold (about three turns).
4. Remove track master pin at bottom rear of sprocket. Drive paver forward to disconnect track from the top of the sprocket.
5. Jack up the paver until the sprocket clears the track.

DANGER Crush hazard! Always use safety blocks in addition to jack when working under the paver to prevent serious injury or even death.

6. Remove bolts holding sprocket. **(Figure 5-29)**
7. Remove rear track roller.
8. Slide sprocket off and replace.
9. Slide sprocket back in place.
10. Place thread-locking adhesive on bolts and install bolts holding sprocket.
11. Lower paver so that sprocket goes back into track chain. Drive paver forward to rotate track onto top of the sprocket.
12. Place master pin back in track and place thread-locking adhesive on bolts.
13. Tighten relief cartridge in the manifold.

Rubber Track (Option)

1. Raise conveyor and insert safety prop. **(Page 5-6)**
2. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure.

⚠ DANGER Crush hazard! Always use safety blocks in addition to jack when working under the paver to prevent serious injury or even death.

3. Loosen the track tension cartridge at the manifold located at rear of the bottom hydraulic tank.
4. Label and disconnect the track tensions hoses from undercarriage at track tension manifold.
5. Cap and plug all hoses.

NOTE: Remove generator cord at generator if removing left undercarriage (electric heat screed only).

6. Remove the two (2) bolts holding the drive motor to the torque hub. **(Figure 5-30)** Support the undercarriage with a forklift or jack before lowering to the ground.
7. Unbolt the two (2) trunnions on the front of track undercarriage and stops at each side of the rear of the undercarriage.
8. Lower the track assembly.
9. Remove rubber track by prying from the idler end first.
10. If needed, replace idler, torque hub, sprocket, rollers and/or cylinder. Lower the undercarriage for replacing above components, except rollers.

Torque Hub

If the torque hub has been damaged or worn, use the following procedures for replacement:

1. Raise conveyor and insert safety prop. **(Page 5-6)**
2. Loosen the track tension valve on the track tension manifold to release pressure.
3. Remove master pin in the track chain behind the front idler (bottom side).
4. Back paver up until track lays flat on the ground.
5. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure.
6. Remove the two cap screws and lock washers attaching the drive motor to the torque hub drive.

NOTE: DO NOT disconnect hoses from the hydraulic drive motor. Hoses are long enough to slide the motor out. Clean hoses before reinstalling.

NOTE: Mark location of torque hub to frame before removing to ensure the drive motor is reinstalled in the same position.

NOTE: Sprocket can be removed before the torque hub by removing the rear track roller and bolts in the sprocket.

7. Remove bolts holding torque hub to track undercarriage. **(Figure 5-30)**

NOTE: Before completely removing all bolts from the torque hub, place a jack or other support underneath to safely lower it to the ground.

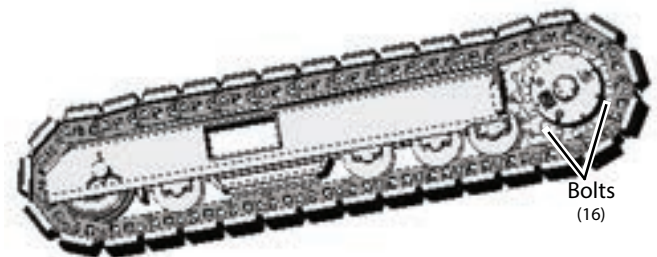


Figure 5-30. Torque Hub

8. Install torque hub in proper position to align with the drive motor.
9. Place thread-locking adhesive on torque hub bolts and torque bolts (see Torque Specifications in **Section 2**).
10. Check O-Ring on the drive motor and replace if worn.
11. Place thread-locking adhesive on sprocket bolts and torque bolts. (See Torque Specifications in **Section 2**)
12. Reinstall rear track roller if previously removed.
13. Fill torque hub with oil. (**Page 5-7**)
14. Lower paver to ground and reconnect track.

NOTE: Removing pad from chain where master pin is placed will make reconnecting track easier from top side at rear of the idler.

15. Retighten track tension valve.
16. Lower conveyor and bolt hopper wings.
17. Start paver and check for any leaks with engine running.

NOTICE DO NOT use your bare hands when checking for hydraulic leaks as serious injury can result from an oil leak under high pressure. Always wear safety glasses and protective clothing.

WARNING Stop the engine immediately if any hydraulic leak is noted. DO NOT start the engine until the leak has been repaired.

Two-Speed Hydraulic Motors

1. Move paver onto a ramp where you can access the undercarriage.
2. Disconnect, label and plug fittings on hydraulic hoses to the hydraulic motors. (**Figure 5-31**)



Figure 5-31. Two-Speed Hydraulic Motors

3. Place blocks sufficient to support the hydraulic motors underneath them.
4. Remove the two screws and lock washers attaching the hydraulic motor to the torque hub and carefully separate motor from the torque hub.
5. Remove the O-Ring and drain hydraulic oil from the motor. Discard or repair the motor as appropriate.
6. Lubricate a new O-ring with hydraulic oil and install onto the torque hub.
7. Reattach new or rebuilt hydraulic motor to torque hub and torque screws to 120 ft. lbs. (163 N•m)
8. Reconnect hydraulic hoses.
9. Start the engine and let machine run for 10 minutes to work air out of the system.
10. Check for any leaks.

Rear Conveyor Shaft, Bearings and Sprockets

1. Drive paver onto a ramp to access undercarriage.
2. Remove conveyor chain cover. **(Figure 5-32)**
3. Loosen chain tension adjuster bolts.
4. Rotate main conveyor chains away from the assembly.
5. Remove chain from the drive motor to the conveyor sprocket.
6. Remove bolt and washers holding the sprocket.
7. Remove the sprocket and bearing from the frame.
8. Remove bolts on the inner sprocket.
9. Slide out shaft and outer conveyor sprocket through frame side.

NOTE: Rear tube can be removed for changing the inner bearings.

NOTE: Remove the inner seals from replaced bearings in the tubes to allow grease to enter into the bearing area.

10. Place conveyor shaft into the inner conveyor sprocket.

11. Insert bolt into shaft.

NOTE: The outer conveyor sprocket must be aligned with the inner sprocket.

12. Rotate the outer sprocket on the shaft until properly aligned.
13. Reinstall the outer bearing and outer sprocket.
14. Place thread-locking adhesive on the bolt and torque to 180 ft. lbs. (244 N.m).
15. Reinstall the conveyor and drive chains and adjust.
16. Grease bearings in the tubes by using grease blocks on each side below the hopper wing.

Conveyor Drive Motors

1. Disconnect hydraulic hoses from conveyor motor.
2. Remove four bolts holding hydraulic motor to slide mount. **(Figure 5-32)**
3. Slide drive motor out of slide mount.
4. Slide new or repaired drive motor into slide mount.
5. Secure with four bolts.
6. Reconnect hydraulic hoses to motor.
7. Check for leaks.

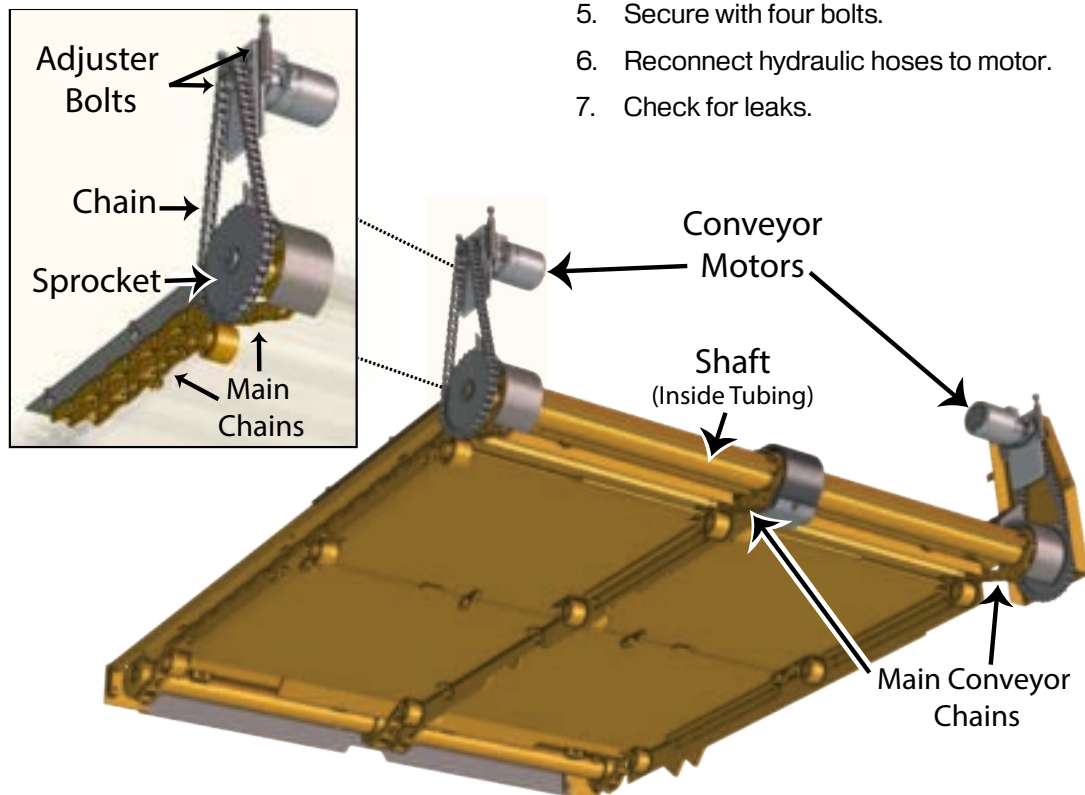


Figure 5-32. Conveyor Components

Auger and Inner Bearings

1. Extend the screed extensions completely and open the Under Auger Material Cutoffs.
2. Remove grating on the operator platform above the auger assembly and clean any asphalt build-up.

NOTE: Heating asphalt may be required for cleaning.

3. Remove the two (2) nuts holding top cover on and pry cover apart. **(Figure 5-33)**

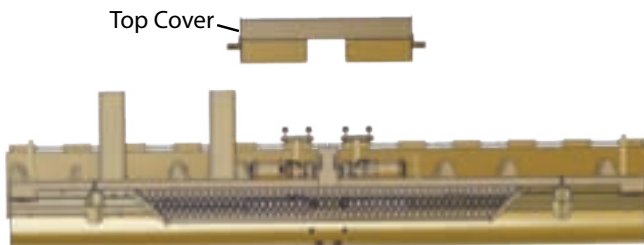


Figure 5-33. Remove Top Cover (Top View)

4. Remove lower auger bearing cover, then remove auger clamps on each side. **(Figure 5-34)**

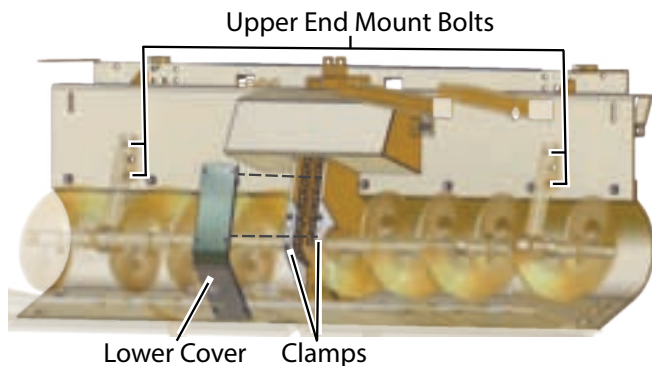


Figure 5-34. Lower Cover and Clamps (Top View)

5. Remove rear auger cover. **(Figure 5-35)**

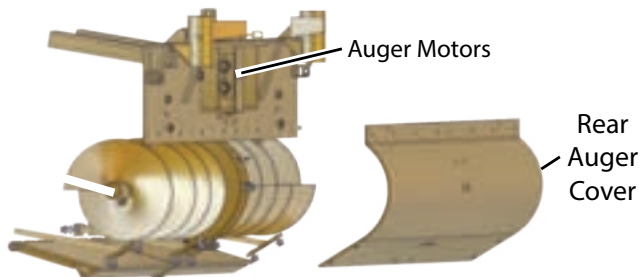


Figure 5-35. Rear Auger Cover (Side View)

6. Loosen the two (2) bolts on each auger motor mounting bracket, then loosen the two (2) drive chain tensioners. **(Figure 5-36)** The auger motors should slide down as you loosen the tensioners (tap with a rubber mallet if needed).

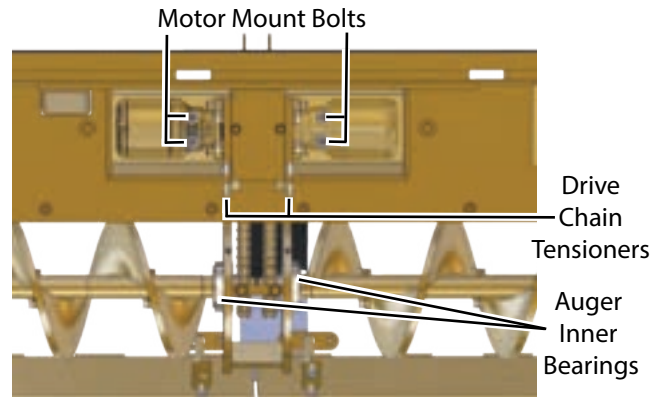


Figure 5-36. Auger Inner Bearings

7. Remove the upper end-mount bolts. **(Figure 5-34)**
8. Slide auger straight out and onto the ground, placing in the same position. *This is important as it is very easy to install new augers backwards!*
9. Check inner auger bearings. Replace if faulty. **(Figure 5-36)**
10. Align new augers the same as removed augers, ensuring they are on correct side to auger material outward.
11. Reinstall the upper end-mount bolts and torque to 78 ft. lbs. (106 N•m).
12. Feed auger chains back onto the sprocket, ensuring chains have approximately 1/4" (.635 cm) of slack. Adjust the auger motors up by tightening the drive chain tensioners, then tighten the motor mount bolts,
13. Torque motor mount bolts to 150 ft. lbs. (155 N•m) and lubricate chains.
14. Reinstall grating.
15. Operate augers to ensure proper function.

NOTE: Auger chains can be lubricated each day by spraying oil or chain lube through the slots where auger motor is adjusted.

Auger End Mounts

1. Extend the screed extensions completely and open the Under Auger Material Cutoffs. (You can remove the rear auger cover if you like, but it isn't necessary.)
2. Remove the outermost auger section. (**Figure 5-37**)

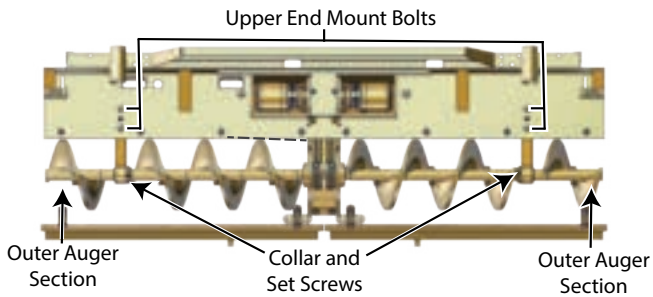


Figure 5-37. Outer Auger and Upper End Mounts

3. Remove upper end mount bolts.
4. Loosen the two set screws on the auger end mount collar, then slide the end mount and collar off the auger shaft.
5. Replace with new end mount, retighten set screws, reinstall outer auger section and upper end mount bolts (and rear cover if applicable).

Auger Motors

1. Extend screed extension completely.
2. Remove floor grating.
3. Clean asphalt buildup around cover.
4. Disconnect and label the hydraulic hoses. Plug fittings.
5. Remove the two nuts on the cover and pry the cover apart. (**Figure 5-38**)

NOTE: Heating asphalt may be required.

6. Loosen auger tension adjusters.
7. Loosen the two bolts securing the auger motor mounting brackets.
8. Loosen the auger chains by sliding the auger motors out from backside.

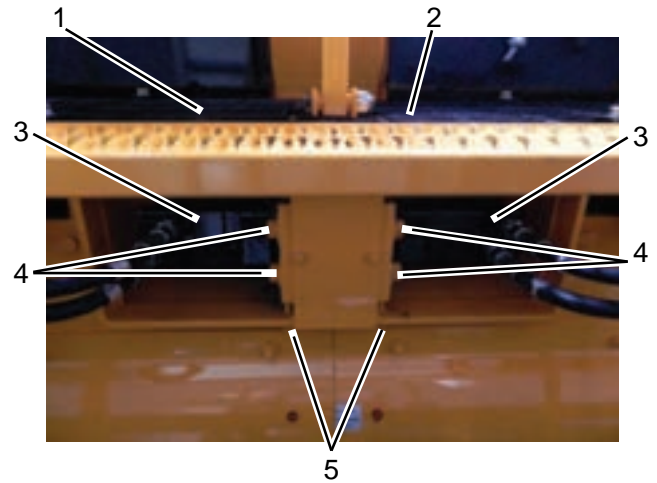


Figure 5-38. Auger Motors

- 1 - Floor Grating**
- 2 - Front Auger Cover**
- 3 - Auger Motors**
- 4 - Auger Mounting Bolts**
- 5 - Auger Tension Adjusters**

9. Slide the long screw through the bolt side of the chain to prevent it from falling down into the cover. Once chain is secure, remove the bolt holding the sprocket.
10. Hold the sprocket at the chain as you slide out the motor.
11. Remove the sprocket from the chain.
12. Slide off the sprocket and remove the auger motor mount.
13. Place the new auger motor onto the mount.
14. Reinsert the sprocket back onto the chain.
15. Reinsert the motor.
16. Cover bolts with thread-locking adhesive, reinsert and tighten.
17. Adjust the chain for 1/4 inches of slack.
18. Lubricate with chain lube.
19. Reconnect the hydraulic hoses and check for leaks.

Main Screed Wear Plate

The screed wear plates can wear out over time and must be replaced if the plate has worn to less than 1/4-inch thick. Poor maintenance, paver cleaning, asphalt mixes containing hard aggregate and improper material flow can contribute to excessive wear on the main screed and extension wear plates. Correct screed heating also helps prevent excessive material build-up. An uneven, worn screed plate will produce an inferior mat

1. Retract screed extension completely.
2. Unbolt and remove the rear walk boards. **(Figure 5-39)**
3. Unbolt and remove upper and lower screed covers.
4. Remove bolts on the heating element covers and remove. Disconnect wiring.

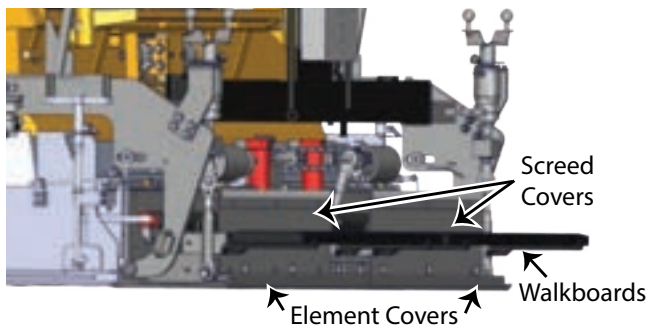


Figure 5-39. Walk Boards and Covers

5. Grasp handle and slide out inner screed element covers as shown in **Figure 5-40** to access wear plate bolts.

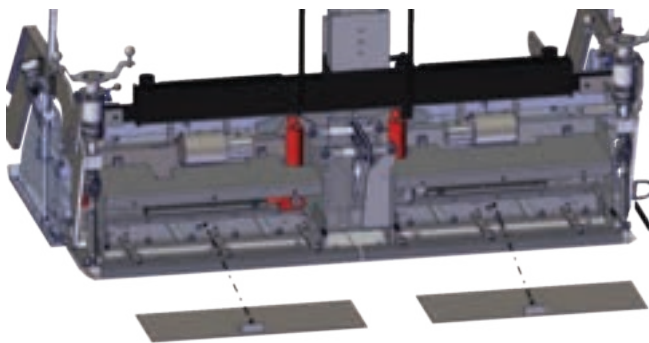


Figure 5-40. Inner Screed Element Covers

6. Remove both rows of bolts holding the wear plate to the bottom of the screed. **(Figure 5-41)**

NOTE: Clamp the center portion of the screed frame to hold the frame in place before lifting it from the worn wear plate.

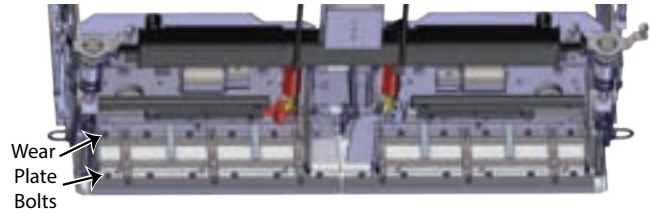


Figure 5-41. Wear Plate Bolts

7. Raise the screed completely.
8. Slide the worn wear plate from under the screed.
9. Clean all material buildup on the screed frame.
10. Set new wear plate level on three blocks, placing one block in the center and one at each end.
11. Lower the screed frame down onto the new wear plate.
12. Install center and side bolts first (front and rear) to hold the new wear plate in place, then install remaining bolts. **DO NOT tighten the bolts until all bolts are installed.**
13. Loosen the plate on the slotted side to adjust the crown. This will move the screed frame in and out on the wear plate to help align the bolts on the opposite side.
14. Install the remainder of the front bolts, then install the rear bolts, ensuring the screed frame and wear plate are flat.
15. Torque bolts to 55 ft lbs (74 N•m) starting inside, then moving outward, by rotating from the left to the right side to keep the screed relaxed.
16. Reinstall the screed covers in reverse order, then the walk boards.

Screed Extension Wear Plate

1. Extend the screed completely.
2. Remove the endgate by removing the tilt screw and nut on each side of the tilt screw. The endgate will tilt forward and slide off the bolt.
3. Disconnect the extension AOA adjuster (**Figure 5-42**) on top of the wear plate by removing locknut, washer and shoulder bolt.
5. Carefully slide the hinge pin out. The wear plate will disconnect and fall to the ground.
6. Hold the new wear plate in place and slide the hinge pin back into place.
7. Fasten the AOA adjuster back to the wear plate with locknut, washer and shoulder bolt.

4. Remove the three bolts holding the front extension hinge shield.

NOTE: If equipped with electric screed heat option, remove all wiring and heating elements.

NOTE: Reinstall all wiring and heating elements if equipped with electric screed heat option.

8. Reinstall the front hinge shield.
9. Reinstall the endgate and tilt screw.

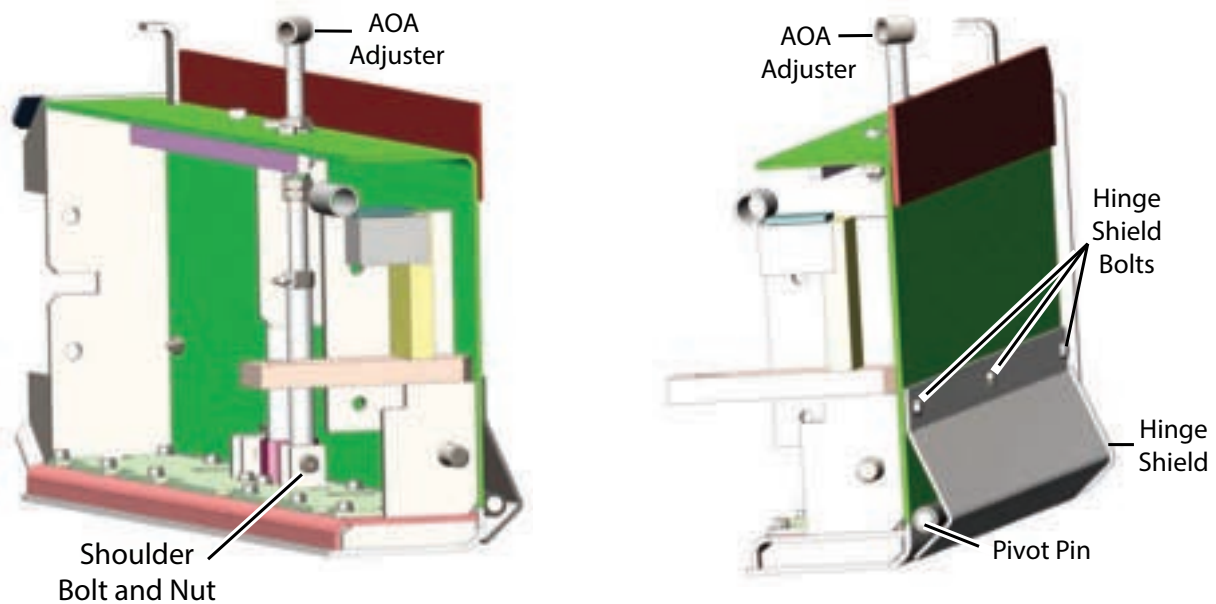


Figure 5-42 Wear Plate Replacement

5

Gear Pumps

Hydraulic fluid is transmitted throughout the machine to motors and cylinders, becoming pressurized according to the resistance present. The fluid is controlled by valves and distributed through hoses and tubes. Three gear pumps play a significant role in producing hydraulic power as it supplies hydraulic fluid to system components: The tandem gear (augers), tandem drive, and tandem auxiliary gear (charge and conveyors) pumps. If equipped with the electric screed heat option, an additional tandem gear pump supplies the generator. (Figure 5-43)

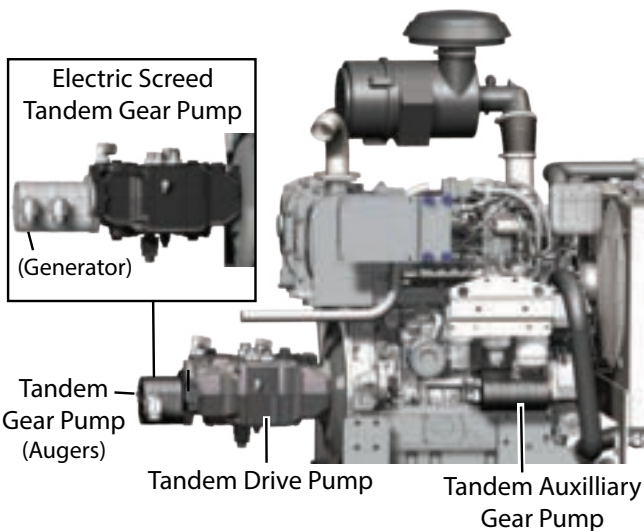


Figure 5-43. Gear Pumps

The tandem gear and tandem drive pumps are accessed via the left access panel. The tandem gear pump(s) attaches to the tandem drive pump. (Figure 5-44) The auxiliary tandem gear pump is easier to access from the front access panel inside the hopper.



Figure 5-44. Tandem Gear Pump

Use the following procedure for replacing either of the gear pumps:

1. Access the gear pump slated for replacement.
2. Label and disconnect the hoses to the gear pump, capping the fitting on the pump.
3. Label, plug and cap the hoses.
4. Remove the two screws on the pump mount (one on each side of mount).
5. Lift the pump assembly out of the machine and place on a flat surface.
6. Remove and inspect the O-ring(s) on end of the pump for wear or damage. Replace if needed.
7. Put a small amount of hydraulic oil onto the O-Ring and reinstall.
8. Align the 2 mounting holes with the mounting on the pump.
9. Reattach with the two mounting screws and torque to 89 ft. lbs. (12 N•).
10. Remove plug caps and reconnect hydraulic hoses to pump as previously labeled.
11. Check hydraulic oil level. Add more if needed.
12. Start the paver and check to be sure there are no hydraulic oil leaks.
13. Let machine idle approximately 10 minutes to allow the pump and motor cases to fill with hydraulic oil.
14. Slide drive motor out of slide mount.

Conveyor Switch Replacement

If you need to replace the conveyor switches, follow these instructions, using the color codes for wiring (**Figure 5-45**) to ensure the conveyor switches on the conveyor flap are wired correctly:

1. Raise the conveyor flap 6-1/2 to 7 inches (16.5 to 17.8 cm) from the bottom of the tank mount support.
2. With the switch installed and the conveyor paddle hanging down:
 - Using a multimeter, measure the ohms across the black and white wires.
 - Using a multimeter, measure the ohms across the red and green wires.

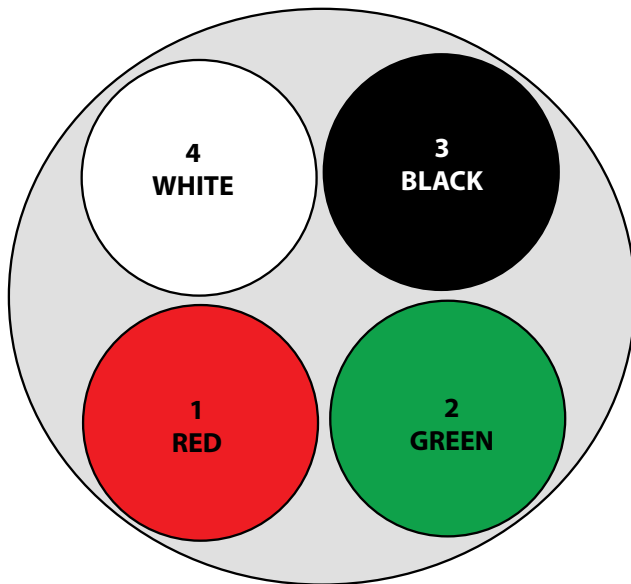


Figure 5-45. Conveyor Switch Wiring

3. Wire the switch using the wires that show continuity.
4. Repeat Steps 2 - 3 for the second switch.

NOTE: The switches are sealed and potted, therefore, they are not serviceable.

WINTERIZING FOR STORAGE

Perform the following procedures to prepare the machine for winterizing and storage.

1. Store the machine in a dry, protected area:
 - Cover seat with plastic. Place a "DO NOT OPERATE" tag on the main control panel.
 - Cover all exposed control panels with tarps or plastic.
 - Ensure all cab doors and windows are closed and seal properly.
 - Replace worn or damaged decals if needed.
2. Inspect the machine thoroughly and repair worn or damaged parts. Inspect all hoses, couplers, fittings and cylinders. Tighten loose fittings and replace any worn hoses found.
3. Lubricate all grease points:
 - Coat all exposed cylinder shafts with lithium-based grease.
 - Ensure all exposed threads are lubricated.
 - Ensure cables are lubricated and move freely.
 - If the machine has high- and low-speed chains, be sure they are oiled.
4. Check air filter. Clean or replace air filter elements if needed.
5. Check engine oil level and fill if needed.
6. Check hydraulic oil sight gauge and fill if needed.

NOTICE Hydraulic oil that is contaminated must be drained, the filter elements replaced and the hydraulic tank refilled. Failure to perform this maintenance procedure if needed could result in premature failure of the pumps or motors.

7. Ensure the fuel tank is full to prevent condensation in the fuel tank. Add cold-weather additive when appropriate.
8. If machine is equipped with Diesel Exhaust Fluid (DEF), ensure the DEF tank is full.
9. If machine is equipped with a citrus tank, ensure the tank is full to prevent rust.
10. If machine is equipped with water tank(s), the tank should be drained. The pump and filter must also be purged to prevent freezing.
11. If machine is equipped with windshield washer bottle, ensure the bottle is full of window washer fluid with a cold-weather blend.
12. Perform specific gravity test on engine coolant. Drain and replace or fill with antifreeze mixture to prevent freeze damage if needed.
13. Disconnect battery and store inside in a cool, dry place. Ensure breakers are in the OFF position.
14. Remove steering control boxes and electrical cords. Store inside in a cool, dry place.
 - If equipped with any plugged-in remote sensors (i.e., sonic auger sensor), disconnect, remove and store inside in a cool dry place.
15. Cover the exhaust and intake filter. Be sure to seal the exhaust cover with tape to prevent moisture from entering, especially if storing outside.
16. If the machine is equipped with a propane system, remove the propane gas bottle and store in a safe area away from the machine. Purge the gas system and seal connection(s).
17. Lower machine components and attachments (i.e., screed, broom, blade, etc.) to the lowest position, resting on blocks to prevent ground contact or pavement damage.
18. Clean the machine, including the undercarriage. Paint chipped or rusty areas to prevent further rusting. Lock all lockable panels, cab doors and spare tire. Remove ignition key and store keys in a safe place.

Periodic Maintenance in Storage

If storing the machine more than two months, perform the 100-Hour routine maintenance procedures for every 100 hours the machine is stored. **(Page 5-5)**

Also be sure to:

- Reinstall the battery to start the engine and allow the engine to warm until all machine functions are at operating temperature at least twice per month.
- Keep battery fully charged and check the electrolyte level regularly.
- Check the hydraulic fluid on a regular basis for possible moisture contamination. This is especially important in climates with varying temperatures and humidity as condensation can develop inside the hydraulic tank.

Removing from Storage

1. Perform maintenance procedures described above.
2. Check all fluid levels, belt tensions, and bolt torques.
3. Replace battery.
4. Replace alternator belt.
5. Clean any excess grease or rust inhibitor from all exposed cylinder rods, seals and O-rings.
6. Start engine and allow machine to warm before driving out of storage.

WELDMENT



Figure 5-46. Welding

If the machine has been damaged or metal parts worn due to extensive use, minor welding may be necessary for repair. Welding is very dangerous. Only individuals who are properly trained should weld in a dedicated area away from others as even looking at ultraviolet light from the flame can cause serious eye injury.

Welding hazards include toxic fumes, harmful dust, light radiation, burns, combustion from sparks and the potential for extensive damage to the eye. There is also a danger of electric shock. If combustible or flammable materials are nearby, the heat and sparks produced by welding can cause fires or explosions.

TURN THE BATTERY SWITCH OFF AND DISCONNECT BATTERY TERMINALS BEFORE WELDING ON THE MACHINE.

Electrical current can ignite fire or cause an explosion, therefore it is critical to turn off power to the machine. It is also important to grind off the paint to ensure proper ground on the area being welded.

DO NOT MAKE MODIFICATIONS TO THE MACHINE. ONLY weld if needed for repair purposes. Weldment modifications to the machine can void your warranty.

Before welding on the machine:

PREPARE:

- Clear the area of any fire hazards, flammable liquids and solids, or any items that could catch on fire.
- Ensure a fire extinguisher is available in the work area.
- Hang welding blanket(s) around and underneath the work area.
- Paint and rust should be removed from the welding area to prevent arcing in other areas or components. An indirect ground can cause arcing that will damage machine components. Only connect the ground to the component being welded. **DO NOT** connect the ground to other bolted assemblies, wheels, bearings, motors, tracks, torque hubs, etc.

DISCONNECT:

- Turn the master battery switch to the OFF position.
- Disconnect the battery positive and negative terminals.
- Disconnect Plus 1 controller(s).
- Disconnect engine ECU(s) controller (if equipped).
- Disconnect engine DEF controller (if equipped).
- If machine has truck chassis: Disconnect the battery positive and negative terminals and unplug the ECU(s) for the engine, transmission and ABS systems if equipped. Refer to the truck owner manual for any other recommendations.

TROUBLESHOOTING

Hydraulic Test Ports

The hydraulic test ports provide an easy and convenient means of checking pressure for the five main functions of the paver: Forward drive (left and right sides), conveyor, charge pressure and the main manifold valve. The test ports are located together on the left side beneath the steering control box. **(Figure 5-47)**

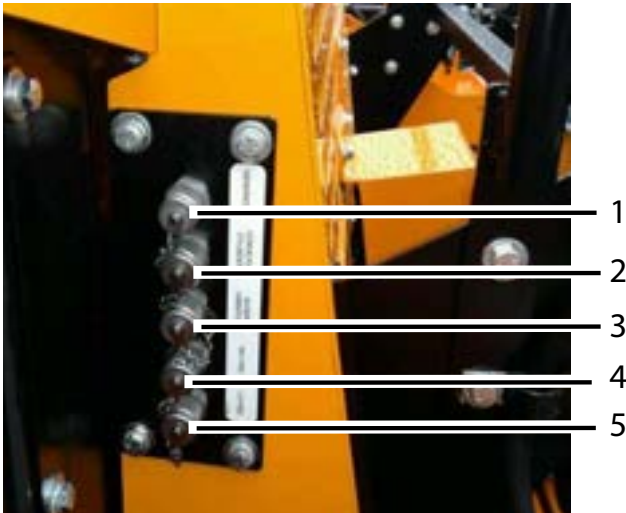


Figure 5-47. Test Port

Item No.	Function	PSI Relief / Gauge
1	Left Forward	Relief set at 3625 PSI. Use 4000 PSI gauge.
2	Right Forward	Relief set at 3625 PSI. Use 4000 PSI gauge.
3	Conveyor	Relief set at 3400 PSI. Use 4000 PSI gauge.
4	Charge	Relief set at 25 - 400 PSI. Use 600 PSI gauge.
5	Main Valve	Relief set at 2400 PSI. Use 3000 PSI gauge.

To check pressure:

1. Using the table above, connect the appropriate gauge to the port being tested.
2. Start the engine, then check gauge for the proper pressure reading.
3. If adjustment is needed, locate the pressure-reducing valve on left side of main manifold.
4. Remove valve cap with an allen wrench.
5. Adjust the pressure-reducing valve clockwise for more tension or counterclockwise for less tension.

Hydraulic Motor Installation Start-Up Procedure

Pre-Start

If the hydraulic system is down as a result of a major component failure:

1. Drain and clean the tank and system components (hoses, valves, fittings and cooler) to ensure it is free from metallic debris and other contamination. Failure to do so may result in damage to the pump(s) and/or other components on start-up.
2. Change all the filters.
3. Change the fluid. On large systems where the cost of changing the fluid may be prohibitive, the fluid should be flushed until a cleanliness level of ISO 4406 Code 18/16/13 or better is achieved.

Installation and Start-Up

When installing hydraulic motors, it is important that the mounting flange of the motor makes full contact with the mounting surface of the application. **(Figure 5-48)** Mounting hardware of the appropriate grade and size must be used:

1. Use Grade 8 socket-head capscrews to attach the motor.
2. Install lock washer over capscrew. **(Figure 5-48)**
3. Apply Loctite 243 (blue) to the capscrew threads.
4. Install extra thick, hardened H-D thick washers over the capscrew.
5. Install the capscrew-hardened washer and lock washer in the SAE two-bolt flange.
6. Torque the capscrew to the wet torque value defined for the capscrew grade and size.

NOTICE It is **CRITICAL** to use the correct mounting hardware.

Hubs, pulleys, sprockets and couplings must be properly aligned to avoid inducing excessive thrust or radial loads. Although the output device must fit the shaft tightly, a hammer should never be used to install any type of output device onto the shaft. The port plugs should only be removed from the motor when the system connections are ready to be made.

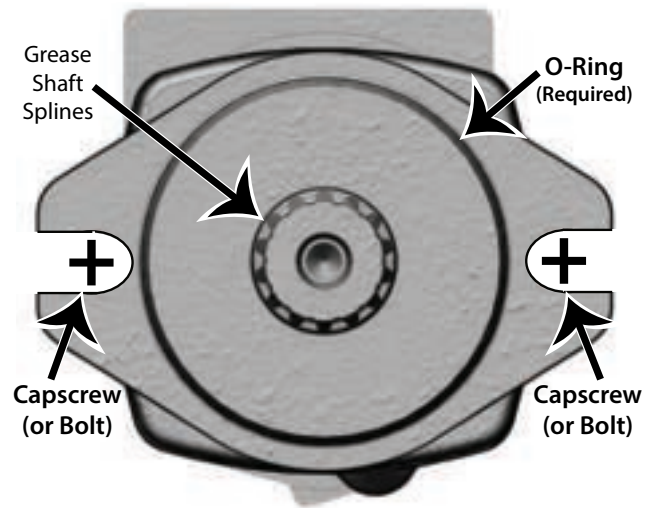


Figure 5-48. Hydraulic Motor Mount

To avoid contamination:

- Remove all matter from around the ports of the motor and the threads of fittings.
- Fill the case of the motor being used (piston-type, gear motor, gerotor motor, geroller motor or vane motor) with clean hydraulic fluid through the highest case drain port and connect the case drain line. Failure to do so will result in damage to the motor through inadequate lubrication on start-up.
- Units that are mounted vertically with the shaft up require special attention to ensure the fluid level in the case is high enough to lubricate the front shaft bearing(s).

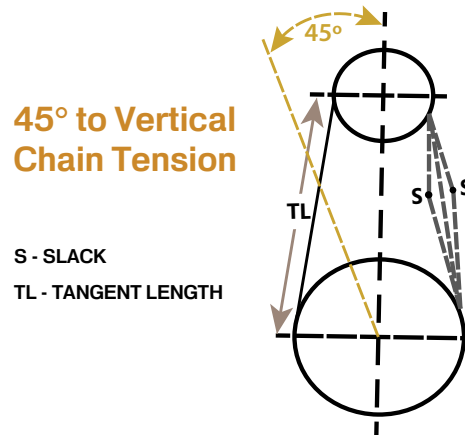
Once all system connections are made, the motor should be run for 15 - 30 minutes at no-load and half-speed to bleed air from the hydraulic system.

Auger and Conveyor Chain Tension Adjustment

The auger and conveyor chains need periodic adjustment. Generally, the slack of a roller chain should be on the lower side. **(Figure 5-49)** Adequate slack (S) is about four (4) percent of the span for normal drives, but the slack should be about two (2) percent of the span for the auger chains:

- Vertical drive or close to vertical drive.
- Center distance between two shafts is greater than three (3) feet.
- Chain is operated under heavy load and high frequency of on and off drive.
- Direction of the drive is often changed.

NOTICE Auger and conveyor chains must have a slack of 1/4 to 3/8 inches. To measure deflection, exert 40 - 60 pounds of force to chain in either direction.



45° to Vertical Chain Tension

S - SLACK
TL - TANGENT LENGTH

Horizontal to 45° Chain Tension

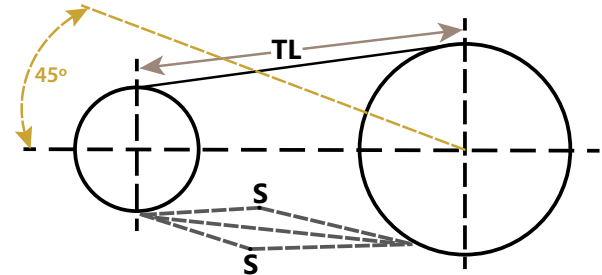


Figure 5-49. Chain Slack Adjustment for Proper Tension

REQUIRED MID-SPAN MOVEMENT

	Tangent Length (TL) Between Sprockets in Inches (Centimeters)					
	10 (25)	20 (51)	30 (76)	50 (127)	70 (178)	100 (254)
Tangent Length Between Sprockets in Inches (Millimeters)						
Horizontal To 45°	0.4 - 0.6	0.8 - 1.2	1.2 - 1.8	2.0 - 3.0	2.8 - 4.2	4.0 - 6.0
	(10 - 15)	(20 - 30)	(30 - 46)	(51 - 76)	(71 - 107)	(102 - 152)
45° To Vertical	0.2 - 0.3	0.4 - 0.6	0.6 - 0.9	1.0 - 1.5	1.4 - 2.1	2.0 - 3.0
	(5 - 8)	(10 - 15)	(15 - 23)	(25 - 38)	(36 - 53)	(51 - 76)

Spraydown Pump

The following troubleshooting information is provided in the event of any issues with the spraydown pump (located on the paver near the right hydraulic controls). (Figure 5-50)



Figure 5-50. Spraydown Pump Location

An electronic pressure sensor displays solid or flashing LED lights on top of the pressure switch for pump status notifications. (Figure 5-51)

Green:

- Solid green means the pump is spraying.
- Flashing green means the pump is in a stand-by mode, ready to spray.

Yellow:

- Solid yellow means the pump is priming.

Yellow/Blue:

- Flashing yellow and blue means the pump has incorrect voltage.

Red/Blue:

- Flashing red and blue means the pump has timed-out without fluid. Cycle pump power to reset.

Red:

- Solid or flashing red light means there is an error. Consult owner's manual for troubleshooting.

NOTE: If an overload occurs, the pump stops and a yellow-green LED will flash. The electronic system will try to reactivate the pump at preset intervals. If the overload reaches a dangerous level, the red LED will become solid and you must switch the power off and start the pump again.

NOTE: When starting the spraydown pump or emptying the tank, open the bleeder valve slightly to expel air and facilitate priming. As soon as the pump is operating, close the bleeder valve.

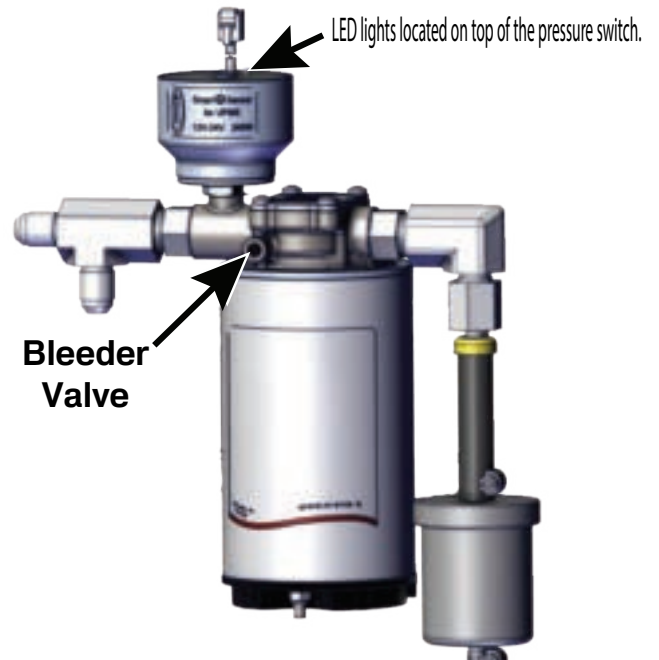


Figure 5-51. Spraydown Pump

If the spraydown pump has stopped or will not start:

1. Check the effectiveness of the battery power supply (voltage activity).
2. Check that the fuse has not blown.
3. Check for any foreign material present in the hose.
4. Avoid running the pump dry for more than a few minutes. (Pumps run dry by the absence of fluid are not covered by warranty.)
5. If the pump does not prime itself:
 - Raise the screed completely, ensuring citrus tank on the screed is filled.
 - Loosen the bleeder valve inside of the cut-out until the pump primes.
 - Retighten the bleeder valve.

NOTE: Change filter as needed.

PLUS ONE TROUBLESHOOTING

The Plus One is a 50-pin controller that monitors paver control systems and alerts the operator in the event of a fault. The Plus One status light on the control panel (**Figure 5-52**) illuminates red and blinks continuously or blinks, then pauses, then blinks again according to the blink code numbers listed in following Plus One Fault Codes chart. For example, code 29 will show two blinks, then a pause, then nine blinks.

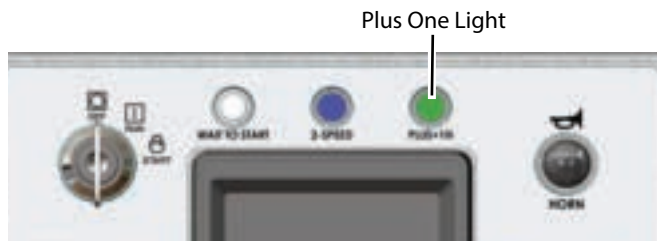


Figure 5-52. Plus One

When the key is turned on, the status light will illuminate red for approximately three seconds while the Plus One controller powers up, then turn off when the machine is ready to start. The light will stay on and the Plus One will not allow the engine to start if any joystick is out of neutral or more than one Run/Stop switch is in the RUN position.

If the machine is in neutral with the Run/Stop switch in the RUN position, the Plus One will disable the control box after a set period of time. This is a safety measure in the event the operator leaves the station with the control box still active and the joysticks accidentally moved. The operator must then toggle the Run/Stop switch from RUN to STOP and back to RUN again to regain control.

These faults will also prevent machine movement:

- Steering control box not detected.
- Joysticks not optimized.
- Pump control coil fault.
- Brake valve/pump neutral bypass coil fault.
- There is only one steering control box present.
- The fault happens in the steering control box that has control (Run/Stop switch in the RUN position).
- The fault occurs when neither steering control box is in control.

Plus One Fault Codes

Blink Sequence	Fault / Corrective Action
Continuous at Start-Up.	Joysticks not in neutral. Must be placed in neutral at start-up.
Continuous while running.	Joysticks out of neutral. Return joysticks on both control boxes to neutral.
Continuous while in neutral.	Joysticks in neutral too long with Run/Stop switch in RUN position. Toggle Run/Stop switch from RUN to STOP, then back to RUN.
Continuous rapid blink.	Calibration Mode. Open control panel and unplug the Optimize/Calibrate plug from the Calibrate receptacle.
Continuous slow blink.	Optimize Mode. Open control panel and unplug the Optimize/Calibrate plug from the Optimize receptacle.
21	Left steering control box not optimized.
22 or 27	Left joystick fault. Check wires to left joystick.
23 or 28	Right joystick or steering. Check wires to right joystick or steering wheel fault.
24	Right steering control box not optimized.
25 or 37	Left joystick fault. Check wires to left joystick.
26 or 38	Right joystick or steering wheel fault. Check wires to right joystick or steering wheel.
29	Controller has not received an updated J1939 CAN message. Check J1939 connection and ECM is intact.
31	Brake release/pump neutral bypass valve coil. Output is open or short-circuited. Check the coil and wires.
32	Right pump FWD or REV output fault. Output is open or short-circuited. Check coil and wires.
33	Left pump FWD or REV output fault. Output is open or short-circuited. Check coil and wires.
35	Sensor power fault. Check sensor wiring for power and ground.
36	Vibrator/electric actuator relay fault. Output open or short-circuited. Check relay and wires.

PAVER TROUBLESHOOTING CHART

The troubleshooting chart below identifies the most common symptoms of mechanical problems. Fault codes are also shown on the PV480 Digital Display unit on the Operator Control Panel.

Contact your authorized LeeBoy dealer for assistance, service or repair.

SYMPTOM	CAUSE	REMEDY	
Engine does not start.	Defective battery or low battery charge.	Replace or charge battery as applicable	
	Master switch is not set at the ON position.	Set switch to the ON position	
	Insufficient fuel supply.	Fill fuel tank	
	Safety switch is faulty.	Replace	
	Solenoid doesn't function properly.		Ensure wires are tight. Clean solenoid plunger. Replace solenoid coil. Replace or rebuild starter or solenoid.
		Switch box unplugged.	Replug switch box.
	Neutral switch defective.	Replace.	
	Engine starter relay faulty.	Replace.	
E-Stop engaged.	Disengage E-Stop.		
Engine turns over but does not start.	Low fuel.	Add fuel to fuel tank.	
Low battery.	Faulty alternator.	Replace or rebuild	
	Indicator light, bad bulb	Replace	
Machine will not move.	RUN/STOP switch faulty	Check RUN/STOP switch	
Machine does not steer straight.	One of the hydraulic drive motors needs adjustment.	Readjust motor(s).	
	Steering control is not centered.	Center steering control.	
	Travel pump defective.	Replace or rebuild travel pump.	
Machine does not change speed when the 2-Speed switch is engaged.	Defective relay.	Replace relay.	
	Defective solenoid.	Replace solenoid.	
	Defective drive motor.	Replace drive motor.	
Conveyor does not function on one or both sides.	Defective Automatic/Manual switch.	Replace switch.	
	Solenoid defective.	Replace.	
	Feeder drive chain broken.	Repair or replace chain.	
	Defective conveyor motor.	Replace.	
	Rear conveyor shaft broken.	Replace.	

Maintenance

SYMPTOM	CAUSE	REMEDY
Tracks don't operate smoothly.	Tracks too loose.	Tighten track pad bolts.
	Engine RPM is too low to hold track tension.	Rev engine to 1400 RPMs then throttle back to 700 RPMs.
	Track rollers worn.	Replace.
	Track tension pressure.	Check tension pressure and relieve or adjust.
Machine will not pull on one or both sides.	Faulty hydraulic motor.	Replace.
	Pump pressure too low.	Check pump pressure and relieve or adjust.
	Faulty torque hub.	Rebuild or replace.
Engine runs but there is no hydraulic pressure.	Pump drive coupling faulty.	Replace.
	Defective pump.	Replace.
Auger not turning properly.	Drive chain is too loose.	Adjust.
	Drive chain broken.	Replace.
	Faulty motor.	Replace.
	Solenoid valve defective.	Replace solenoid.
	Asphalt buildup.	Clean thoroughly and grease.
	Overload of material to augers.	Set conveyor to proper speed in AUTO or use paddles in MANUAL position.
Screed extensions binding.	Asphalt buildup.	Keep clean and greased.
Screed extension loose.	Out of adjustment.	Adjust hold-downs on extensions.
Screed leaving streak down center of pavement.	No lead crown in screed	Crown leading edge of screed.
	Screed worn out or damaged.	Replace.
	Extensions set too low.	Adjust extension. Always begin operation with extensions extended up with no down pressure.
	Screed not heated properly.	Check elements and heat control box.
Screed leaving ripples in pavement.	Extension set too low.	Readjust extensions.
	Extensions work up and down.	Adjust top guide.
	Extension rod bushings worn.	Replace bushings.
Flight screw locking up.	Twisting screed too far.	Give screed time to react.
	Screw seized.	Replace screw.
Flight screw bearing damage.	Twisting screed too far.	Give screed time to react.
	Loading and unloading.	Check ramps for easy access.
Hydraulic oil leaking from breather cap.	Hydraulic oil tank overfilled.	Drain to proper fill level.
	Oil overheated.	Slow paver down.
		Check oil cooler and thermostat.
Hydraulic pump cavitation or lost power.	Low level in hydraulic tank.	Refill to proper level.
	Clogged filters.	Replace filters.
	Suction hose loose.	Retighten.
	Charge pump worn.	Rebuild or replace charge pump.

SYMPTOM	CAUSE	REMEDY
Feeder does not work on one or both sides.	Defective switch	Replace switch.
	Solenoid defective	Replace solenoid.
	Feeder drive chain broken	Adjust or repair chain.
	Defective conveyor motor	Replace motor.
	Rear conveyor shaft broken	Replace conveyor shaft.
Feeder flight bars don't function properly.	Flight chains too loose	Adjust.
	Feeder drive chain too loose	Adjust.
Loss of power to drives.	Relief out of adjustment.	Check pressure and adjust if needed.
	Piston groups worn.	Replace.
	No charge pressure.	Check that charge pressure is 320 PSI.
Electric screed heating system will not operate.	Control box power switch not in ON position	Ensure that the screed operator control box Power switch is ON.
	Breakers are in a "tripped position."	Ensure all element breakers are in the proper set position.
	Generator malfunction.	Ensure generator is "spinning." Check voltage and frequency. Rebuild or replace if needed.
Only part of the electric screed heats.	Screed section not plugged into bottom of the control box..	Replug.
	Element breakers for screed section in a "tripped" condition.	Ensure the element breakers for that screed section are not "tripped."
Electric screed heat system doesn't start, or starts and doesn't run very long.	Heating system timed out.	Check timing relay. Adjust or replace.
Electric screed is heating, but never gets hot enough to pave.	Elements improperly clamped.	Ensure elements are clamped properly.
	Generator malfunction.	Ensure generator is "spinning." Check voltage and frequency. Rebuild or replace if needed.
Electric heating system functions but the HEAT ON light isn't illuminated.	Indicator light bulb.	Replace the HEAT ON indicator light bulb.
Elements have been tested, but the breaker still trips.	Faulty element wiring.	Inspect and test element wiring.

Maintenance

PV480 DIAGNOSTIC TROUBLE CODE (DTC) CHART

LEGEND

SPN: Suspect Parameter Number	DPF: Diesel Particulate Filter	FMI: Failure Mode Identifier
EGR: Exhaust Gas Recirculation	ECU: Engine Control Unit	CPU: Central Processing Unit
NE-G: Negative Ground	NE: Neutral	G: Ground
SCV: Selective Control Valve	MAF: Mass Air Flow	PM: Particulate Matter
DC: Direct Current	IC: Integrated Circuit	EBC: Electronic Brake Control
PLV: Pressure Limiting Valve	CAN: Controller Area Network	CM: Control Module
DDC: Direct Digital Control	SW: Switch	TSC: Torque Speed Control
ETC: Electronic Throttle Control	CCVS: Current Controlled Voltage Source	
MPROP: Manifold Pressure Rail Operating Pressure		
EEPROM: Electrically Erasable Programmable Read-Only Memory		

SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
29	3	Accelerator position sensor 2: High	Battery short circuit out of sensor/harness. Voltage of accelerator position sensor 2 is 4.8V or less.	Forced idle. (Accelerator = 0%) Diagnostic counter = zero
29	4	Accelerator position sensor 2: Low	Ground short circuit or open circuit of sensor/harness. Voltage of accelerator position sensor 2 is 0.3V or less.	Forced idle. (Accelerator = 0%) Diagnostic counter = zero
91	2	Accelerator position sensor correlation error	Deviation from designed correlation in two sensors. Voltage of accelerator position sensor 1 is 4.8V or less.	Forced idle. (Accelerator = 0%) Diagnostic counter = zero
91	3	Accelerator position sensor 1: High	Battery short circuit or open circuit of sensor/harness. Voltage of accelerator position sensor 1 is 4.8V or less.	Forced idle. (Accelerator = 0%) Diagnostic counter = zero
91	4	Accelerator position sensor 1: Low	Ground short circuit or open circuit of sensor/harness. Voltage of accelerator position sensor 1 is 0.3 or less.	Forced idle. (Accelerator = 0%) Diagnostic counter = zero
100	1	Oil pressure error.	Engine oil pressure.	Key switch turn OFF.
102	3	Boost pressure sensor: High	Failure of sensor. Voltage of boost pressure sensor is 4.9V or above.	Key switch turn OFF. (Default value is set in consideration with high altitude usage. Engine power drops.)
102	4	Boost pressure sensor: Low	Failure of sensor. Voltage of boost pressure sensor is 0.2V or below.	Key switch turn OFF. (Default value is set in consideration with high altitude usage. Engine power drops.)
108	3	Barometric pressure sensor error: High	Barometric voltage 4.4V or more.	Diagnostic counter = zero (Default value is set in consideration with high altitude usage. Engine power drops.)

SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
108	4	Barometric pressure sensor error: Low	Barometric voltage 1.6V or less.	Diagnostic counter = zero (Default value is set in consideration with high altitude usage. Engine power drops.)
110	0	Engine overheat.	Overheat of engine temperature greater than 248° F (120° C)	Diagnostic counter = zero Output limitation: approximately 75% of normal condition. EGR stop. Intake throttle 100% open.
110	3	Coolant temperature sensor: High	Open circuit or +B short circuit of sensor/harness. Voltage of coolant temperature sensor is 4.9V or above.	Key switch turn OFF. (White smoke increases at low temperature.)
110	4	Coolant temperature sensor: Low	Ground short circuit of sensor/harness. Voltage of coolant temperature sensor is 0.1V or less.	Key switch turn OFF. (White smoke increases at low temperature.)
132	1	Intake air volume: Low	Engine inlet air mass flow rate tacking. (Disconnect turbo blower intake hose.)	Key switch turn OFF.
132	3	MAF sensor: High	Engine inlet air mass flow rate less than half of target value. MAF sensor voltage: 4.9V or more at normal operating condition.	Key switch turn OFF. Engine is not forcibly stopped by ECU. STRONGLY recommend operator stop engine promptly.
132	4	MAF sensor: Low	Open circuit or ground short circuit of sensor/harness. MAF sensor voltage: 0.1V or less.	Key switch turn OFF. Engine is not forcibly stopped by ECU. STRONGLY recommend operator stop engine promptly.
132	15	Boost pressure: Low	Boost pressure sensor output is below target level in high air flow operating conditions.	Key switch turn OFF. EGR stop. Engine power is restricted by boost pressure signal accordingly.
157	0	High rail pressure.	Actual pressure exceeds the command pressure. Actual pressure \geq 197MPa (28600 psi or 2010 kgf/cm ²)	Diagnostic counter = zero EGR stop.
157	3	Rail pressure sensor: High	Open circuit or +B short circuit of sensor/harness. Failure of sensor. Voltage or rail pressure sensor is 4.9V or above.	Key switch turn OFF. Engine running noise and white smoke increases. Engine forcibly stopped.
157	4	Rail pressure sensor: Low	Ground short circuit of sensor/harness. Failure of sensor. Voltage of rail pressure sensor is 0.7V or less.	Key switch turn OFF. Engine running noise and white smoke increases. Engine forcibly stopped.
168	3	Battery voltage: High	Open circuit, short circuit or damage to harness. Failure of battery. ECU recognition of battery voltage is above 16V in 12V system. Faulty starting.	Key switch turn OFF. EGR stop.
168	4	Battery voltage: Low	Open circuit, short circuit or damage to harness. Failure of battery. ECU recognition of battery voltage is below 8V in 12V system. Faulty starting or engine may stop completely. (Not monitored during cranking.)	Diagnostic counter = zero EGR stop.

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SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
171	3	Intake air temperature built-in MAF sensor: High	Open circuit or +B short circuit of sensor/harness. Intake air temperature built-in MAF sensor voltage: 4.9V or more.	Diagnostic counter = zero
171	4	Intake air temperature built-in MAF sensor: Low	Ground short circuit of sensor/harness. Intake air temperature built-in MAF sensor voltage: 0.1V or less.	Diagnostic counter = zero
172	0	Intake air temperature: High	Intake air temperature higher than 140° F (60° C).	Key switch turn OFF.
172	3	Intake air temperature error: High	Open circuit or +B short circuit of sensor/harness. Intake air temperature sensor is 4.9V or above.	Diagnostic counter = zero (White smoke increases at low temperature.)
172	4	Intake air temperature error: Low	Ground short circuit of sensor/harness. Intake air temperature sensor is 0.05V or less.	Diagnostic counter = zero (White smoke increases at low temperature.)
174	0	Fuel temperature high.	Fuel temperature higher than 194° F (90° C).	Diagnostic counter = zero
174	3	Fuel temperature sensor: High	Open circuit or +B short circuit of sensor/harness. Voltage of temperature sensor in supply pump is 4.9V or above.	Diagnostic counter = zero
174	4	Fuel temperature sensor: Low	Ground short circuit of sensor/harness. Voltage of temperature sensor in supply pump is 0.1V or less.	Diagnostic counter = zero
190	0	Engine speed.	Engine speed exceeds threshold speed. Engine speed \geq 3500 min-1 (rpm).	Diagnostic counter = zero
628	2	Program memory.	Check-Sum error.	Key switch turn OFF. Engine stopped without delay.
633	7	Pressure limiter emergency open.	Combination of fuel leak and one of conditions below: 1. Rail pressure exceeds 191MPa (27700 psi or 1950 kgf/cm ²). 2. Within one second after the rail pressure goes below temperature in #1, it increases above.	Key switch turn OFF. EGR stop. (Engine speed may go down due to lack of fuel pressure.)
636	2	Crank position sensor pulse number error.	Open circuit or short circuit of sensor/harness. Failure of sensor. Pulse rotation is not 56 teeth. Faulty starting. Engine vibration increases slightly.	Diagnostic counter = zero
636	7	NE-G phase shift. NE: Crankshaft position sensor. G: Camshaft position sensor.	Large phase shift between NE and G pulses within +/- 15 degrees. Engine hesitates at start-up.	Diagnostic counter = zero
636	8	No input of NE sensor pulse.	Open circuit or short circuit of sensor/harness. Failure of sensor. No recognition of NE sensor pulse. Faulty starting. Engine vibration increases slightly.	Diagnostic counter = zero

SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
651	3	Open circuit of harness/coil in 1st cylinder injector.	Open circuit of harness or injector coil. Engine vibration increases. Injectors that have no error are operated.	Key switch turn OFF.
652	3	Open circuit of harness/coil in 2nd cylinder injector.	Open circuit of harness or injector coil. Engine vibration increases. Injectors that have no error are operated.	Key switch turn OFF.
653	3	Open circuit of harness/coil in 3rd cylinder injector.	Open circuit of harness or injector coil. Engine vibration increases. Injectors that have no error are operated.	Key switch turn OFF.
654	3	Open circuit of harness/coil in 4th cylinder injector.	Open circuit of harness or injector coil. Engine vibration increases. Injectors that have no error are operated.	Key switch turn OFF.
676	0	Glow heater relay driving circuit overheat.	Glow relay coil resistance or load is too high. Faulty starting. White smoke increases.	Key switch turn OFF.
676	5	Open circuit of glow relay driving circuit.	Open circuit of harness or relay coil. Faulty starting. White smoke increases.	Key switch turn OFF.
679	7	Pressure limiter not open.	Rail pressure value is sticking or not enough engine power to open PLV forcibly.	Key switch turn OFF.
723	2	G sensor pulse number error.	After fault opening PLV, rail pressure is above 160 MPa.	Diagnostic counter = zero Engine stops.
723	8	No input of G sensor pulse.	Open circuit or short circuit of sensor/harness. Failure of sensor. No recognition of G sensor pulse. Engine hesitates at start-up.	Diagnostic counter = zero
1077	2	Failure of CPU.	CPU fatal error. Engine stops.	Key switch turn OFF.
1239	1	Fuel leak in high-pressured fuel system.	Fuel consumption is calculated from the difference of fuel pressure of, before and after the injection. Error is detected when excess fuel consumption is found. Engine could stop.	Key switch turn OFF.
1347	3	+B short circuit of SCV.	EGR stops.	Key switch turn OFF.
1347	4	SVC drive system error.	Open circuit or ground short circuit of SCV.	Key switch turn OFF. EGR stops, engine forcibly stops later.
1347	5	Open circuit of SCV (MPROP)	Open circuit short of SVC.	Key switch turn OFF. EGR stops, engine forcibly stops later.
1347	7	SCV stuck in open position.	Actual rail pressure continuously exceeds the command rail pressure. Discharge request of supply pump goes below 0 mm ³ /st and the actual rail pressure is 10 MPa for 26 seconds or more. engine may stop.	Key switch turn OFF.
1485	2	Main relay locked in closed position.	Failure of main relay. Stays active longer than one second without command. Battery goes dead.	Diagnostic counter = zero

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SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
3242	0	Emergency exhaust gas temperature sensor 1: High	DPF inlet temperature higher than 1319° F (715° C). Engine stops. Inhibit starter relay activation until exhaust temperatures reduces down to 572° F (300° C).	Under 572° F (300° C) and key switch turn OFF.
3242	3	Exhaust gas temperature sensor 1: High	Open circuit or +B short circuit of sensor/harness. DPF inlet temperature sensor voltage 4.92V or more.	Key switch turn OFF.
3242	4	Exhaust gas temperature sensor 1: Low	Ground short circuit of sensor/harness. DPF inlet temperature sensor voltage 0.08V or less.	Key switch turn OFF.
3246	0	Emergency exhaust gas temperature sensor 2: High	DPF outlet temperature 1508° F (820° C) or more.	Under 572° F (300° C) and key switch turn OFF. Inhibit starter relay activation until exhaust temperature reduces down to 572° F (300° C).
3246	3	Exhaust gas temperature sensor 2: High	Open circuit or +B short circuit of sensor/harness. DPF outlet temperature sensor voltage 4.92V or more.	Key switch turn OFF.
3246	4	Exhaust gas temperature sensor 2: Low	Ground short circuit of sensor/harness. DPF outlet temperature sensor voltage 0.08V or less.	Key switch turn OFF.
3251	3	Differential pressure sensor 1: High	Open circuit or +B short circuit of sensor/harness. DPF differential pressure sensor voltage 4.7V or more.	Key switch turn OFF.
3251	4	Differential pressure sensor 1: Low	Ground short circuit of sensor/harness. DPF differential pressure sensor voltage 0.21V or less.	Key switch turn OFF.
3252	0	Emission deterioration.	DOC is heated due to unburned fuel. Output and accelerator limitation 50%. EGR stops.	Key switch turn OFF to minimize emission to DPF.
3509	3	Sensor supply voltage 1: High	Voltage to sensor is above 5.625V. EGR stops. Faulty starting. Engine may stop. Emission related.	Key switch turn OFF.
3509	4	Sensor supply voltage 1: Low	Voltage to sensor is below 4.375V. EGR stops. Faulty starting. Engine may stop. Emission related.	Key switch turn OFF.
3510	3	Sensor supply voltage 2: High	Voltage to sensor is above 5.625V. Faulty starting. Emission related.	Key switch turn OFF.
3510	4	Sensor supply voltage 2: Low	Voltage to sensor is below 4.375V. Faulty starting. Emission related.	Key switch turn OFF.
3511	3	Sensor supply voltage 3: High	Voltage to sensor is above 5.25V. Faulty starting.	Key switch turn OFF.
3511	4	Sensor supply voltage 3: Low	Voltage to sensor is below 4.75V. Faulty starting.	Key switch turn OFF.

SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
3701	0	Excessive PM 5.	PM accumulation more than trigger level. Regeneration Level = 5.	Key switch turn OFF. Engine not forcibly stopped by ECU. STRONGLY recommend operator to stop engine promptly. Must be reset by Kubota service tool.
3701	15	Excessive PM 3.	PM accumulation more than trigger level. Regeneration Level = 3.	Diagnostic counter = 0
3701	16	Excessive PM 4.	PM accumulation more than trigger level. Regeneration Level = 4.	Diagnostic counter = 0
4765	0	Emergency exhaust gas temperature sensor 0: High	DOC inlet temperature 1292° F (700° C) or more. Engine stops.	Key switch turn OFF. Inhibit starter relay activation until exhaust temperature reduces down to 527° F (300° C).
4765	3	Exhaust gas temperature sensor 0: High	Open circuit or +B short circuit of sensor/harness. DOC inlet temperature sensor voltage 4.92V or more.	Key switch turn OFF.
4765	4	Exhaust gas temperature sensor 0: Low	Open circuit or +B short circuit of sensor/harness. DOC inlet temperature sensor voltage 0.08V or less.	Key switch turn OFF.
523523	2	Injector drive circuit open in Nos. 1 & 4 cylinder simultaneously.	Wiring harness open circuit. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523523	3	Nos. 1 & 4 cylinder injector short to +B at power supply side, or all cylinder injectors short to +B.	Wiring harness short to +B. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523523	4	Nos. 1 & 4 cylinder injector short to ground at power supply side, or all cylinder injectors short to ground.	Wiring harness short to ground. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523524	2	Injector drive circuit open in Nos. 2 & 3 cylinder simultaneously.	Wiring harness open circuit. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523524	3	Nos. 2 & 3 cylinder injector short to +B at power supply side, or all cylinder injectors short to +B.	Wiring harness short to +B. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523524	4	Nos. 2 & 3 cylinder injector short to ground at power supply side, or all cylinder injectors short to ground.	Wiring harness short to ground. Injectors that have no DTC are operated. Engine vibration increases and may stop.	Key switch turn OFF.
523525	1	Injector charge voltage low.	Injector charge voltage low. Failure of charge circuit of ECU. Engine may stop.	Key switch turn OFF.

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SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
523527	2	ECU monitoring error.	Failure of monitoring IC of CPU. Engine stops.	Key switch turn OFF.
523535	0	Injector charge voltage: High	EGR stops. Engine forcibly stops 60 seconds later.	Key switch turn OFF.
523536	2	EGR feedback error.	DC motor feedback control error. During wrong duty feedback, activation of restoration will repeat 30 times. If the restoration was not successfully completed, it will be judged as a feedback error. EGR stops.	Diagnostic counter = zero
523537	2	EGR DC motor temperature error.	Estimated temperature is 113° F (45° C) or above. EGR stops.	Diagnostic counter = zero
523538	2	QR data error.	QR data read error from EEPROM. Nozzle correction is not executed.	Key switch turn OFF.
523539	2	Pump seizing 1.	Rail pressure of 230 MPa (33400 psi or 2350 kgf/cm ²) or more continues one second under the condition of above 800 min-1 (rpm). Under 800 min-1 (rpm) condition, rail pressure of 220 MPa (31900 psi or 2250 kgf/cm ²) or more continues one second under the condition of below 800 min-1 (rpm). [Threshold changes depending upon the engine speed. 700 min-1 (rpm) should be used as a reference.	Key switch turn OFF to minimize PM emission to DPF and avoid extremely high pressure in injection system.
523540	2	Pump seizing 2.	Rail pressure of 197MPa (28600 psi or 2010 kgf/cm ²) or more continues one second under the condition of above 800 min-1 (rpm). Under 800 min-1 (rpm) condition, rail pressure of 220 MPa (31900 psi or 2250 kgf/cm ²) or more continues one second under the condition of below 800 min-1 (rpm). [Threshold changes depending upon the engine speed. 700 min-1 (rpm) should be used as a reference.	Key switch turn OFF.
523541	3	EGR lift sensor: High	+B short circuit of sensor/harness. Failure of sensor. Voltage of ECR lift sensor is 4.5V or above. EGR stops.	Key switch turn OFF.
523541	4	EGR lift sensor: Low	Open circuit or short circuit of sensor/harness. Failure of sensor. Voltage of ECR lift sensor is 0.3V or less. EGR stops.	Key switch turn OFF.
523543	2	Accelerator position sensor error (CAN).	Accelerator position sensor signal error (sensor/harness open circuit, ground short circuit, etc.).	Diagnostic counter = zero. CAN signal recovers.
523544	3	+B short of air heater relay driving circuit.	+B short circuit of harness. Faulty starting. White smoke increases.	Key switch turn OFF.

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SPN	FMI	DTC	SYMPTOM/CAUSE	RECOVERY FROM ERROR
523544	4	Ground short of air heater relay driving circuit.	Ground short or open circuit of harness.	Key switch turn OFF.
523547	2	CAN2 bus off.	CAN2 bus off.	Key switch turn OFF.
523548	2	CAN-KBT frame error.	CAN-KBT frame open circuit error.	Key switch turn OFF.
523572	4	EGR position sensor failure.	EGR position sensor error signal received via CAN. EGR stops.	Key switch turn OFF.
523574	3	EGR actuator open circuit.	EGR actuator open error signal received via CAN. EGR stops.	Key switch turn OFF.
523575	7	EGR actuator valve stuck.	EGR actuator valve stuck error received via CAN. EGR stops.	Key switch turn OFF.
523576	2	EGR (DC motor) overheat.	EGR (DC motor) temperature error signal received via CAN (exceeds 257° F or 125° C). EGR stops.	Key switch turn OFF.
523577	2	EGR (DC motor) temperature sensor failure.	EGR (DC motor) temperature sensor error signal received via CAN. EGR stops.	Key switch turn OFF.
523578	2	No communication with EGR.	Interruption of CAN. EGR stops.	Key switch turn OFF.
523580	2	Intake throttle feedback error.	Deviation of throttle position is not corrected in 20 times of duty error recovery action.	Key switch turn OFF.
523582	3	Intake throttle lift sensor: High	Intake throttle lift sensor voltage 4.89V or more.	Key switch turn OFF.
523582	4	Intake throttle lift sensor: Low	Intake throttle lift sensor voltage 0.1V or less.	Key switch turn OFF.
523589	17	Low coolant temperature in parked regeneration.	During regeneration mode, engine warm-up condition is not satisfied because coolant temperature is too low (below 149° F or 65° C).	Diagnostic counter = zero Leaving from Parked active regeneration status.
523590	16	Parked regeneration timed out.	Regeneration incomplete due to low temperature of DPF.	Diagnostic counter = zero Leaving from Parked active regeneration status.
523591	2	CAN CCVS (parking and vehicle speed) frame error.	CAN CCVS frame time-out error. Parking SW = off. Vehicle speed = 0	Key switch turn OFF.
523592	2	CAN CM1 (Regen SW) frame error.	CAN CM1 frame time-out error. Regeneration inhibit = on. Parked regeneration SW = off.	Key switch turn OFF.
523593	2	CAN DDC1 (transmission) frame error.	CAN DDC1 frame time-out error.	Key switch turn OFF.
523594	2	CAN ETC2 (neutral SW) frame error.	CAN ETC2 frame time-out error	Key switch turn OFF.
523595	2	CAN ETC5 (neutral SW) frame error.	CAN ETC5 frame time-out error.	Key switch turn OFF.
523596	2	CAN TSC1 frame error.	No request to "TSC1 buffer" continues three times after over-ride control request (other than 0x00).	Diagnostic counter = zero

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PV480 Troubleshooting

Under certain conditions, the PV480 digital display can become inoperable. If the display screen is completely black, it must be replaced. If the gauges on the screen become gray (**Figure 5-53**), the display panel is not receiving communication over the CANbus. If this occurs, check the connector. If the gauges are still gray, check the ECU powering up.



Figure 5-53. Gauges Grayed on Screens

Check PV480 Connector

1. Ensure the ignition switch is in the OFF position before starting the machine.
2. Remove the main connector from the rear of the PV480 digital display controller.
3. Inspect the terminals in positions 14 (green) and 26 (yellow) for the CANbus communication.
4. If terminals are properly seated, carefully “unlock” the red retaining clip and slide away from the wires. (**Figure 5-54**)



Figure 5-54. PV480 Main Connector

5. Ensure all the other terminals are locked into the connector shell.
6. Push the red retaining clip back into the locked position and ensure terminals are flush with the red retaining clip. (**Figure 5-55**)



Figure 5-55. Terminal Seat

7. Reinstall connector on to the PV480 panel, making sure the connector shell locks into its mate on the display panel.

Check ECU Powering Up

Each engine has a power distribution block (PDB) on the main engine harness that provides power to the ECU through the ECU control relay; main relay; and fuses in Positions 1, 2, 3, 4 and 8. **(Figure 5-56)**

To check the ECU powering up:

1. Locate the PDB on the right side of the paver inside the engine access door.
2. Fuses can be checked by removing the fuse and using a continuity tester OR checking for +12VDC on each pin on the back of the fuse.
3. Confirm operation of ECU and main relays:
 - If the ECU relay is not energizing, starter will not operate.
 - If the main relay is not energizing, the fuel pump will not operate.

If none of these procedures correct the problem, contact your authorized LeeBoy dealer for assistance.

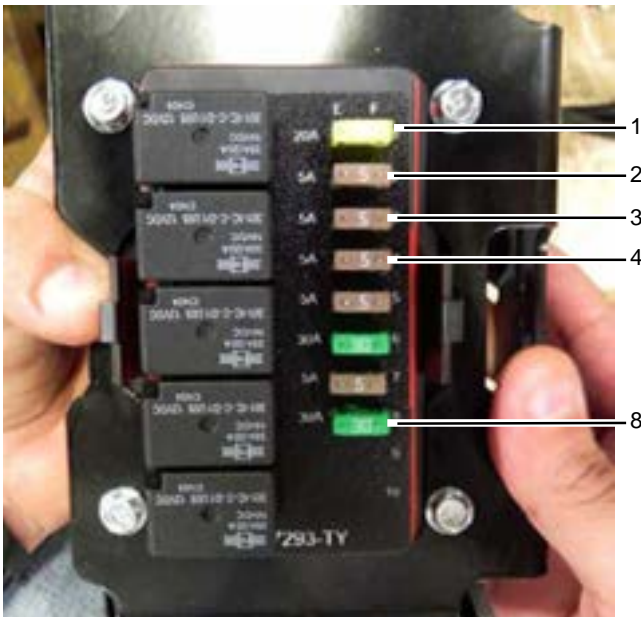


Figure 5-56. Power Distribution Box (PDB)

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MAIN HARNESS (1 OF 6)

Schematic for Part # 1018805

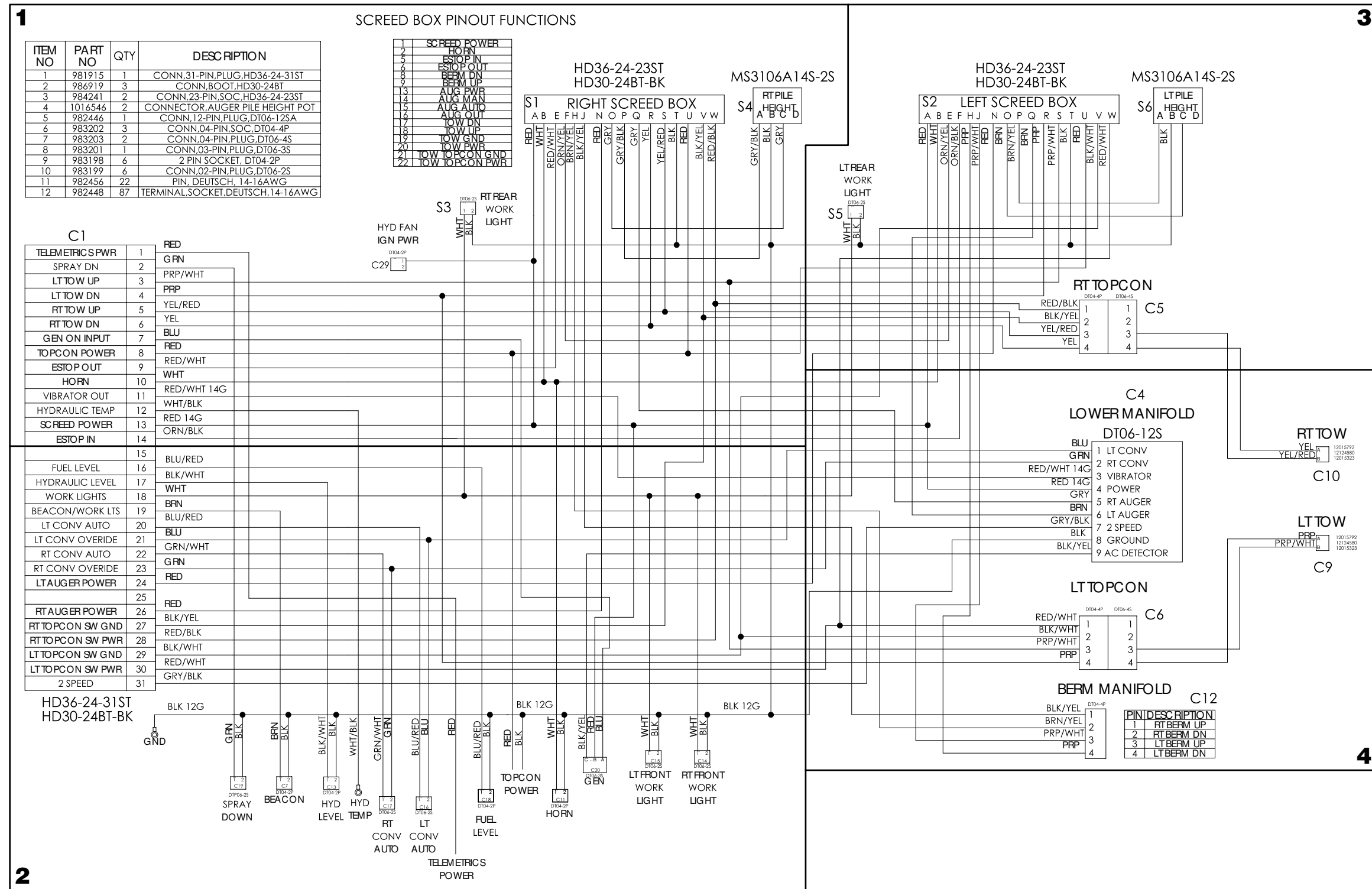


Figure 6-1. Main Harness (1 of 6)

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MAIN HARNESS (2 OF 6)

Schematic for Part # 1018805

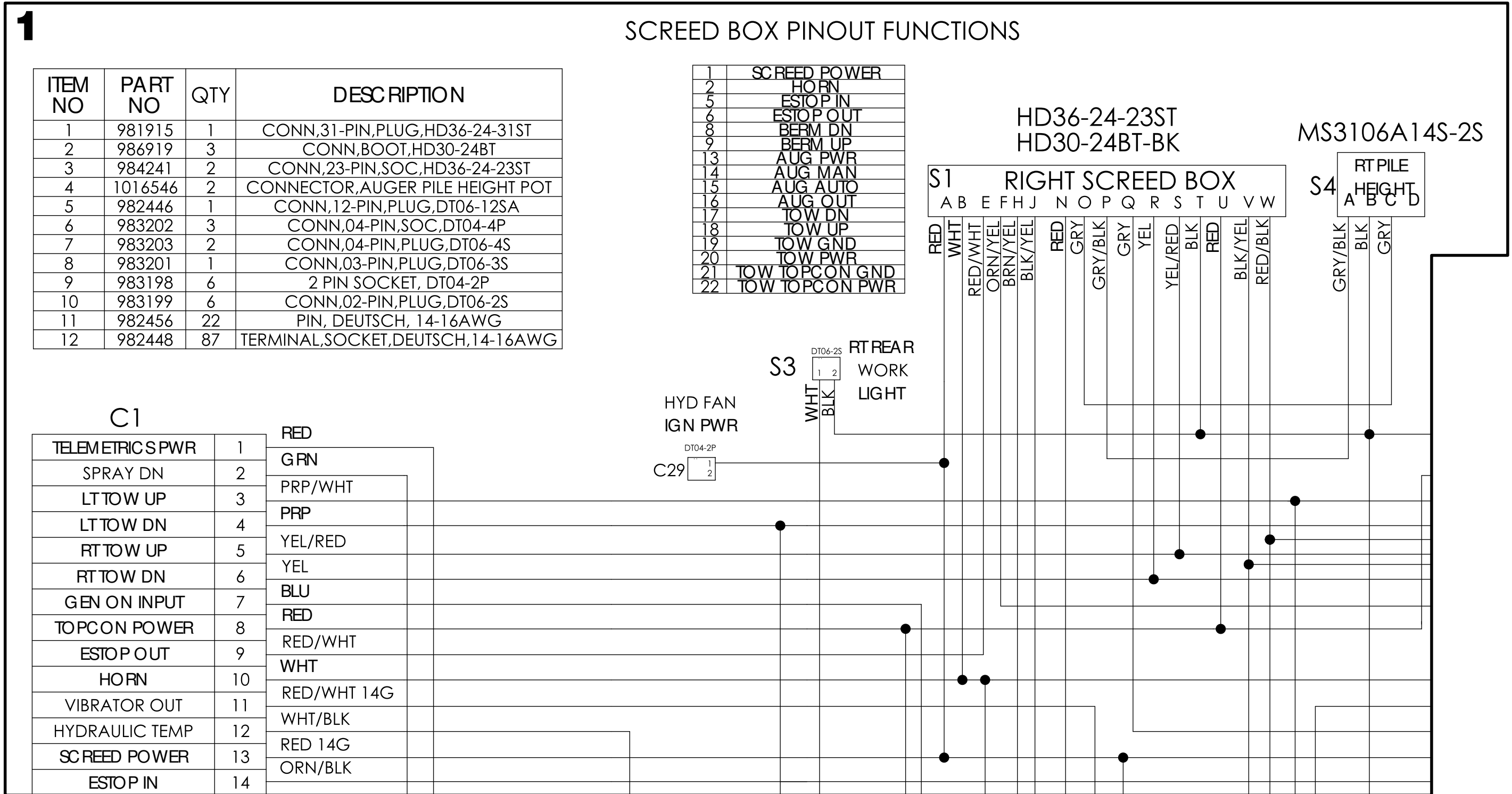


Figure 6-2. Main Harness (2 of 6)

NOTES

MAIN HARNESS (3 OF 6)

Schematic for Part # 1018805

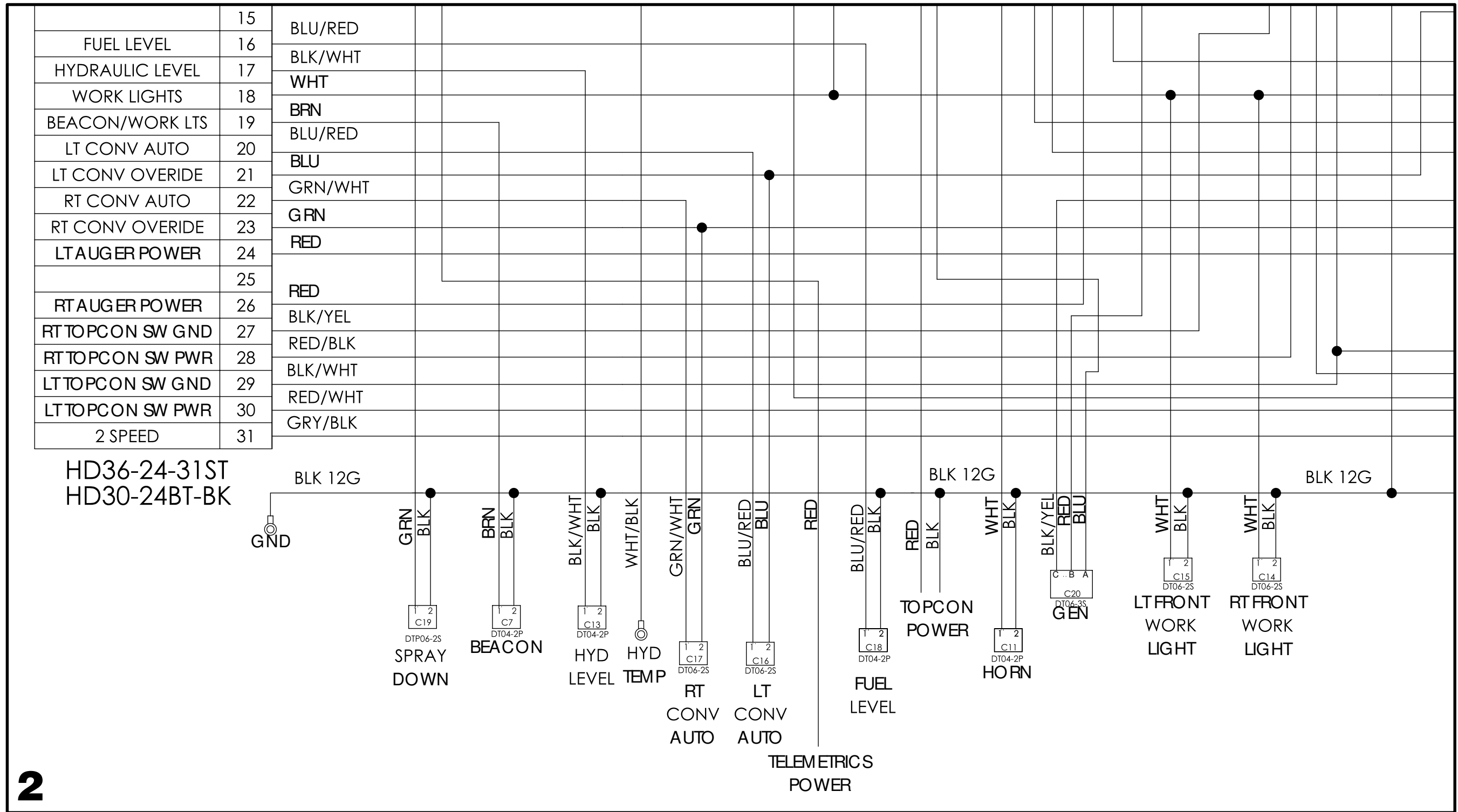
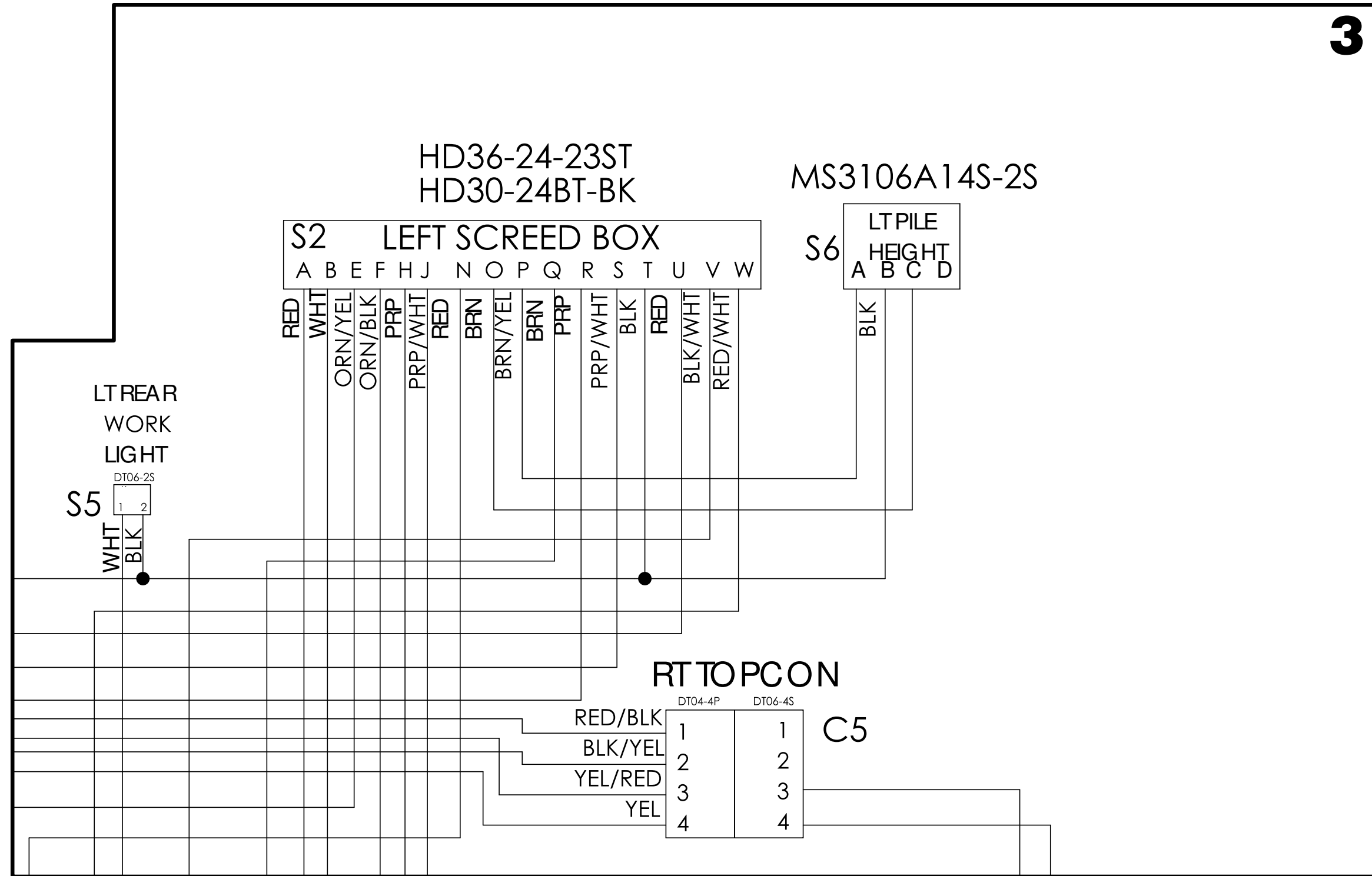


Figure 6-3. Main Harness (3 of 6)

NOTES

MAIN HARNESS (4 OF 6)

Schematic for Part # 1018805



3

6

Figure 6-4. Main Harness (4 of 6)

NOTES

MAIN HARNESS (5 OF 6)

Schematic for Part # 1018805

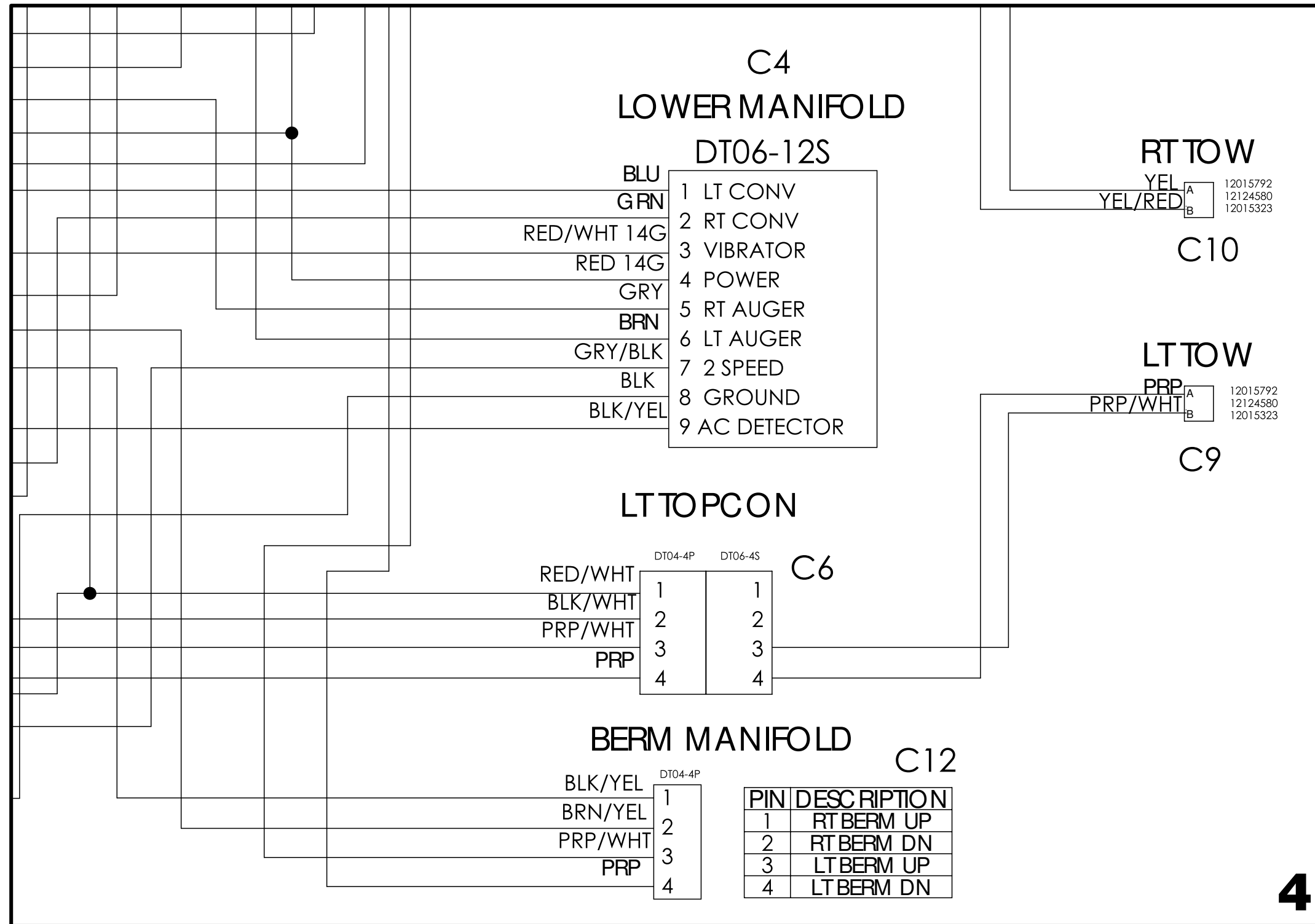


Figure 6-5. Main Harness (5 of 6)

NOTES

MAIN HARNESS (6 OF 6)

Schematic for Part # 1018805

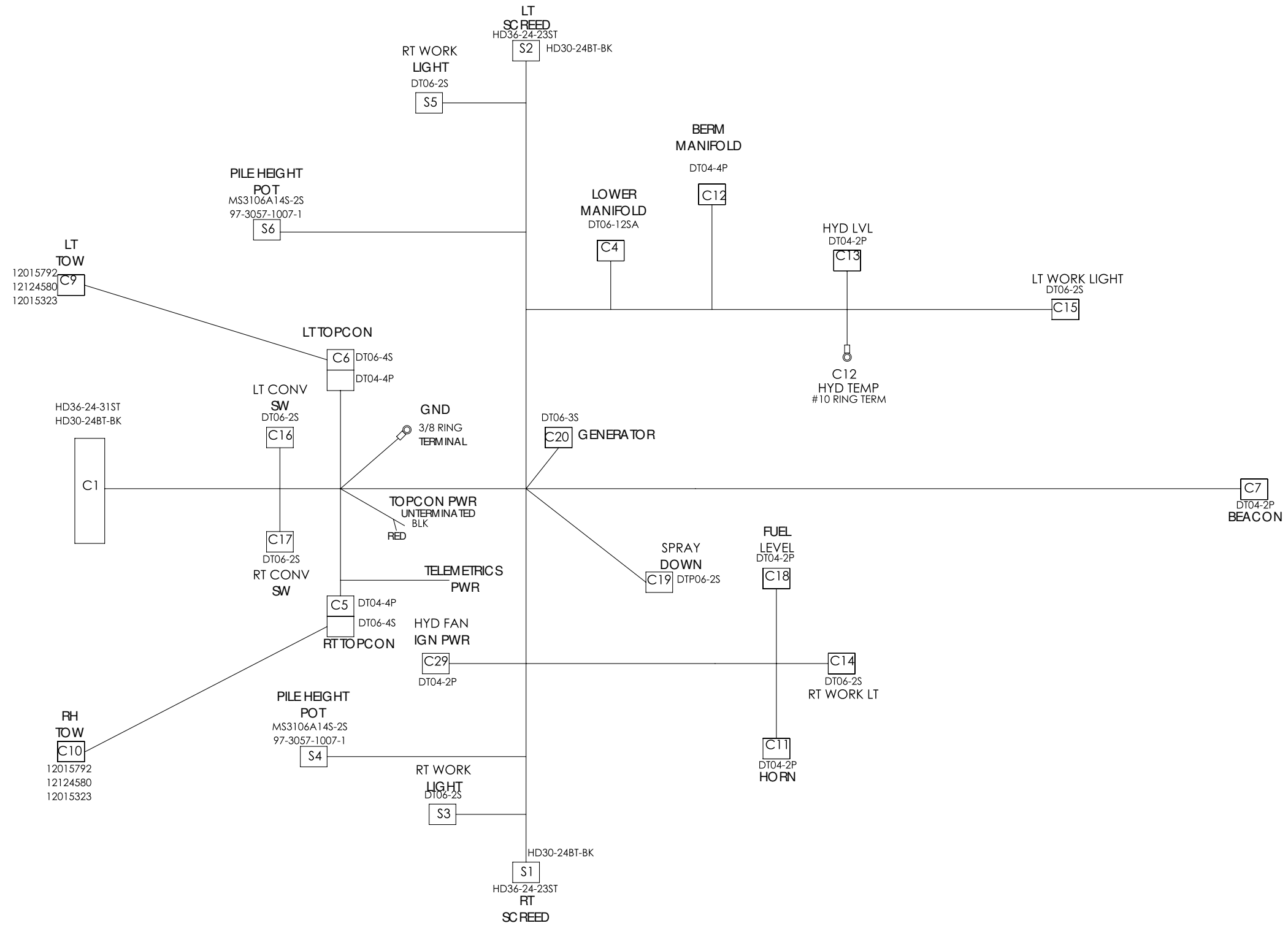
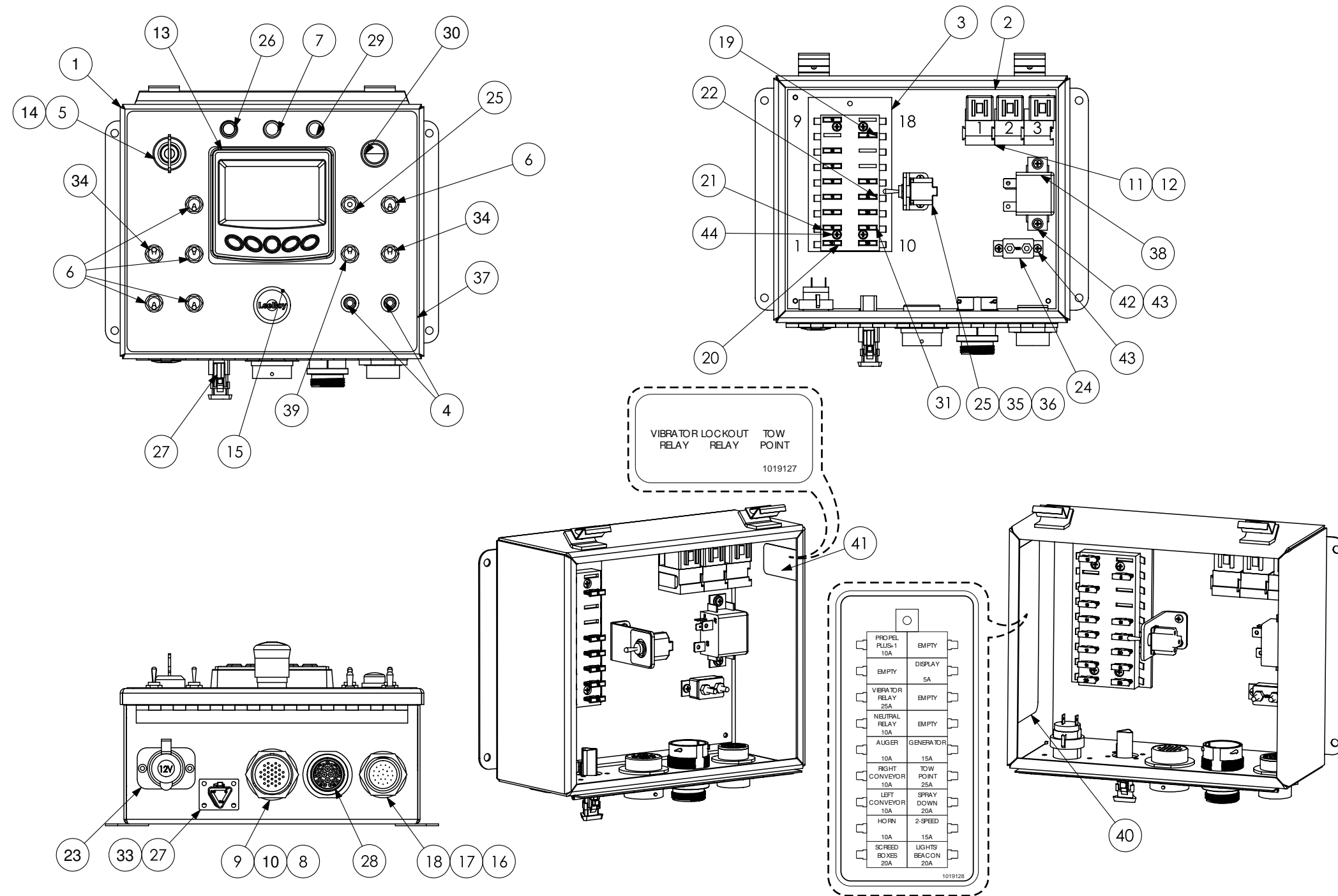


Figure 6-6. Main Harness (6 of 6)

NOTES

CONTROL BOX ASSEMBLY (1 OF 2)

Schematic for Part # 1018792



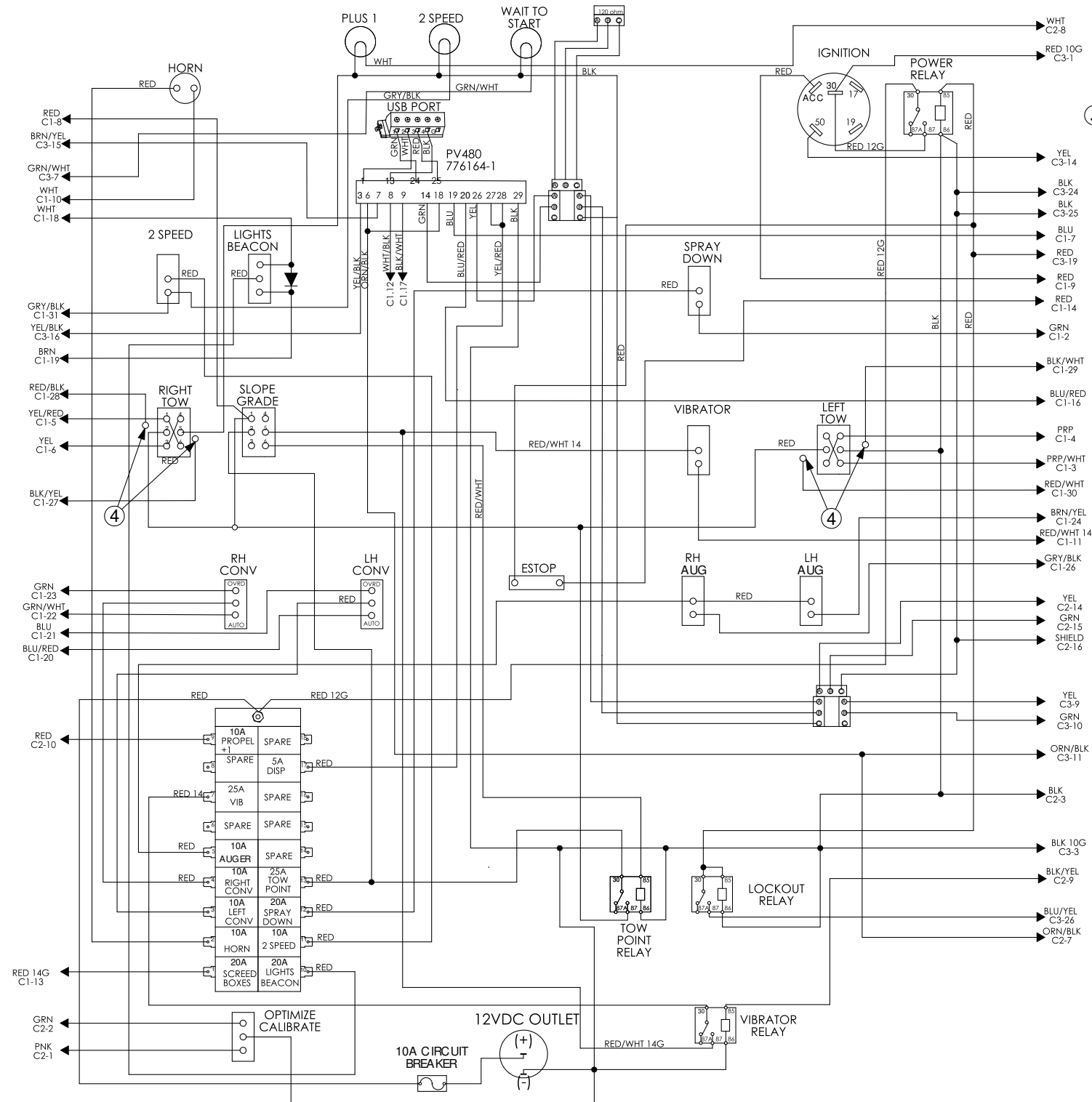
ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	1018793	1	ENCLOSURE, CONTROL BOX, 8510E
2	1019005	1	PLATE, PANNEL, ENCLUSER 8510E
3	685060	1	FUSE BLOCK, 18 GANG, ATC
4	900030	2	SWITCH, TOGGLE, AUTO CONVEYOR *
5	39146-14	1	SWITCH, IGN, W/HEAT ST
6	851391	5	SWITCH, TOGGLE, SPST, 2-POS
7	31986	1	LIGHT, BLUE, DASH, .50 HOLE
8	981916	1	CONN, 31-PIN, RECPT, HD34-24-31, DEUTSCH
9	981916-02	1	CONN, LOCK WASHER, 24 SHELL
10	981916-01	1	CONN, NUT, 24 SHELL
11	36086	3	BRACKET, RELAY MOUNT
12	36085	3	RELAY, 12VDC, SPDT, 40 AMP, 5 PIN
13	1016158	1	DISPLAY, PV480, V3874 T4F
14	982008-04	1	KEY, IGNITION, KUBOTA, 300B, 635
15	1010672	1	SWITCH, EMER STOP, 1-NC
16	1002564	1	CONNECTOR, 21-PIN, RECEPT, HDP
17	1002564-02	1	NUT, 18 SHELL, DEUTSCH, PLASTIC
18	1002564-03	1	WASHER, DEUTSCH, 18 SHELL
19	36746	1	FUSE, 5 AMP, ATC
20	36342	3	FUSE, 20 AMP, ATC
21	36340	6	FUSE, 10 AMP, ATC
22	37303	2	FUSE, 25 AMP, ATC
23	1011147	1	LIGHTER, CIGARETTE
24	986546	1	CIRCUIT BREAKER, 10A
25	851090613	2	SWITCH, TOGGLE, SPDT, 3-POS
26	1010500	1	LIGHT, INDICATOR, WHITE
27	1010657	1	CONNECTOR, 03-PIN, PANEL MOUNT, DEUTSCH, DT04-3P
28	1011851	1	CONNECTOR, 29 PIN, DEUTSCH HDP24-24-29PE-L015
29	31985	1	LIGHT, GREEN, DASH, .50 HOLE
30	982249	1	SWITCH, PUSH BUTTON
31	36341	2	FUSE, 15 AMP, ATC
32	983211	1	CONNECTOR, WEDGELock, DEUTSCH, W3P
33	989179	1	CONNECTOR, 03-PIN, PLUG, W/120 OHM
34	37521	2	SWITCH, TOGGLE, 3-POS, 2 POL, MOM
35	1016260	1	BRACKET, MOUNT, TOGGLE SWITCH
36	1016261	1	DECAL, OPER, CALIBRATE
37	1018925	1	DECAL, OPER, CONTROL BOX, 8510E
38	20934592	1	RELAY, 75 AMP, SPST
39	851390	1	SWITCH, TOGGLE, DPDT, 3-POS
40	1019128	1	DECAL, OPER, FUSE DIAGRAM
41	1019127	1	DECAL, OPER, RELAY DIAGRAM, 8510E
42	300-#8	2	WASHER, FLAT, SAE, #8
43	122-#8-32-8F	8	PHMS, CROSS, #8-32 X 0.5, FT
44	122-#8-32-16F	4	PHMS, CROSS, #8-32 X 1, FT

Figure 6-7. Control Box Assembly (1 of 2)

NOTES

CONTROL BOX ASSEMBLY (2 OF 2)

Schematic for Part # 1018792



C1
HD34-24-31PT

PIN	COLOR	FUNCTION
1	RED	TELEMETRICS POWER
2	GRN	SPRAY DN
3	PUR/WHT	LT TOW UP
4	PUR	LT TOW DN
5	YEL/RED	RT TOW UP
6	YEL	RT TOW DN
7	BLU	GENERATOR ON INPUT
8	RED	TOPCON POWER
9	RED	ESTOP OUT
10	WHT	HORN
11	RED/WHT 14G	VIBRATOR OUT
12	WHT/BLK	HYDRAULIC TEMP
13	RED 14G	SCREED POWER
14	RED	ESTOP IN
15		
16	BLU/RED	FUEL LEVEL
17	BLK/WHT	HYDRAULIC LEVEL
18	WHT	WORK LIGHTS
19	BRN	BEACON
20	BLU/RED	LT CONV AUTO
21	BLU	LT CONV OVERRIDE
22	GRN/WHT	RT CONV AUTO
23	GRN	RT CONV OVERRIDE
24	BRN/YEL	LT AUGER POWER
25		
26	GRY/BLK	RT AUGER POWER
27	BLK/YEL	RT TOPCON SW GND
28	RED/BLK	RT TOPCON SW PWR
29	BLK/WHT	LT TOPCON SW GND
30	RED/WHT	LT TOPCON SW PWR
31	GRY/BLK	2 SPEED

C2
HD34-18-21PT

PIN	COLOR	FUNCTION
1	PNK	CALIBRATE PLUS1
2	GRN	OPTIMIZE PLUS1
3	BLK	HI OUTPUT
4		
5		
6		
7	ORN/BLK	ENGINE ENABLE
8	WHT	PLUS 1 STATUS LIGHT
9	BLK/YEL	PLUS 1 VIBRATOR
10	RED	12V TO PLUS 1
11		
12		
13	BLK	GROUND
14	YEL	CAN(+)
15	GRN	CAN(-)
16	SHIELD	CAN SHIELD
17		
18		
19		
20		
21		

C3
HDP24-24-29PE-L015

PIN	COLOR	DESCRIPTION
1	RED 10G	SYSTEM POWER
2	N/A	
3	BLK 10G	SYSTEM GROUND
4	N/A	
5	N/A	
6	N/A	
7	GRN/WHT	WAIT TO START
8	N/A	
9	YEL	CAN(+)
10	GRN	CAN(-)
11	RED/BLK	NEUTRAL RELAY(-)
12	N/A	
13		
14	YEL	START
15	BRN/YEL	WATER IN THE FUEL
16	YEL/BLK	ECU POWER(-)
17	N/A	
18	N/A	
19	RED	ECU POWER UP
20	N/A	
21	N/A	
22	N/A	
23	RED	JUMPER TO PIN 27
24	BLK	GROUND
25	BLK	GROUND
26	BLU/YEL	LOCKOUT RELAY
27	RED	JUMPER TO PIN 23
28	N/A	
29	N/A	

Figure 6-8. Control Box Assembly (2 of 3)

NOTES

JOYSTICK CONTROL BOX

Schematic for Part # 1016272SRV

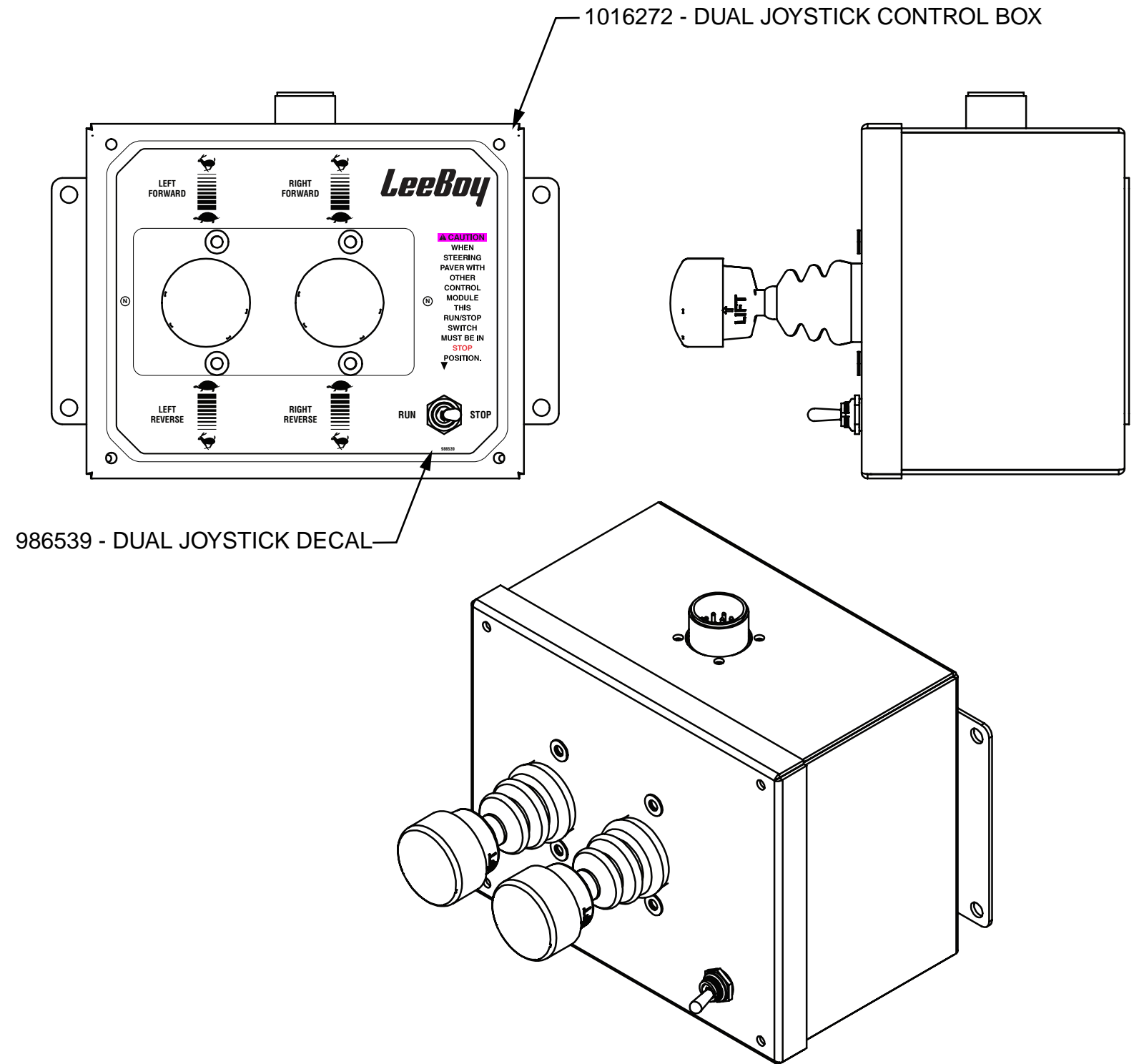
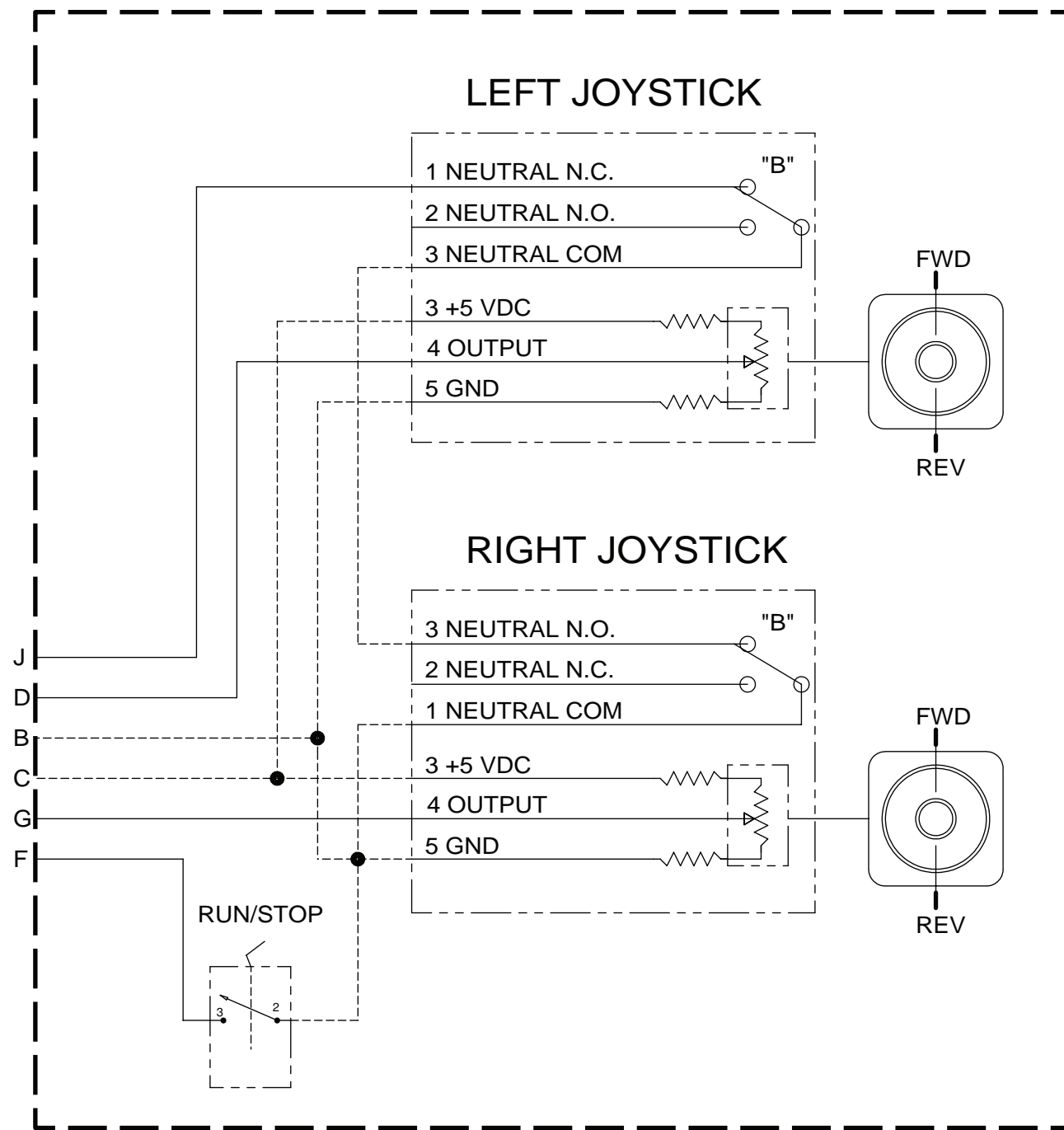


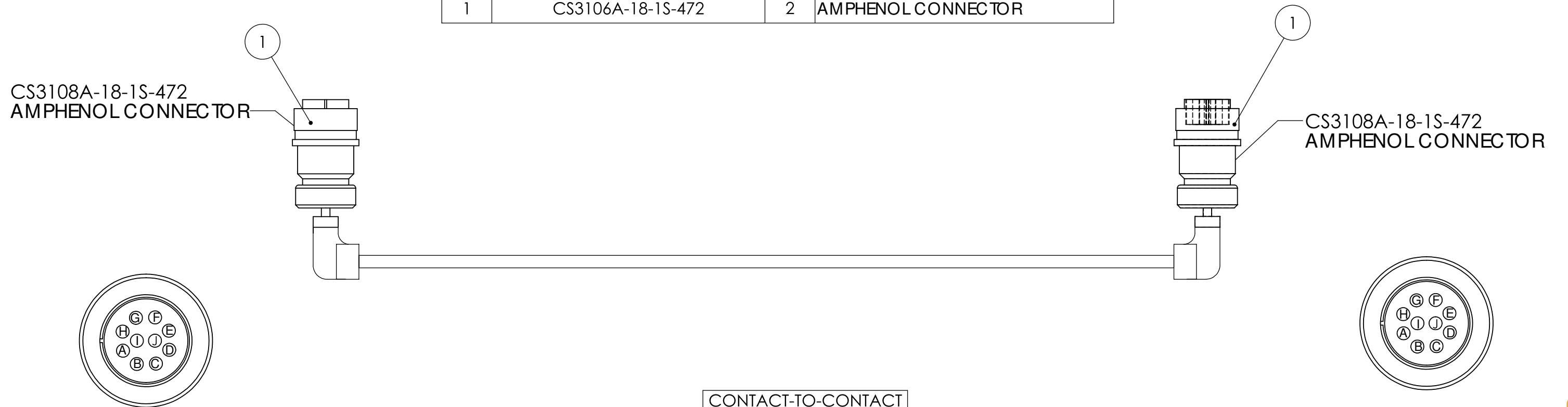
Figure 6-9. Joystick Control Box

NOTES

ELECTRONIC STEERING CORD

Schematic for Part # 851548-04

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	CS3106A-18-1S-472	2	AMPHENOL CONNECTOR



CONTACT-TO-CONTACT	
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J

Figure 6-10. Electronic Steering Cord

NOTES

LOWER MANIFOLD HARNESS

Schematic for Part # 1016536

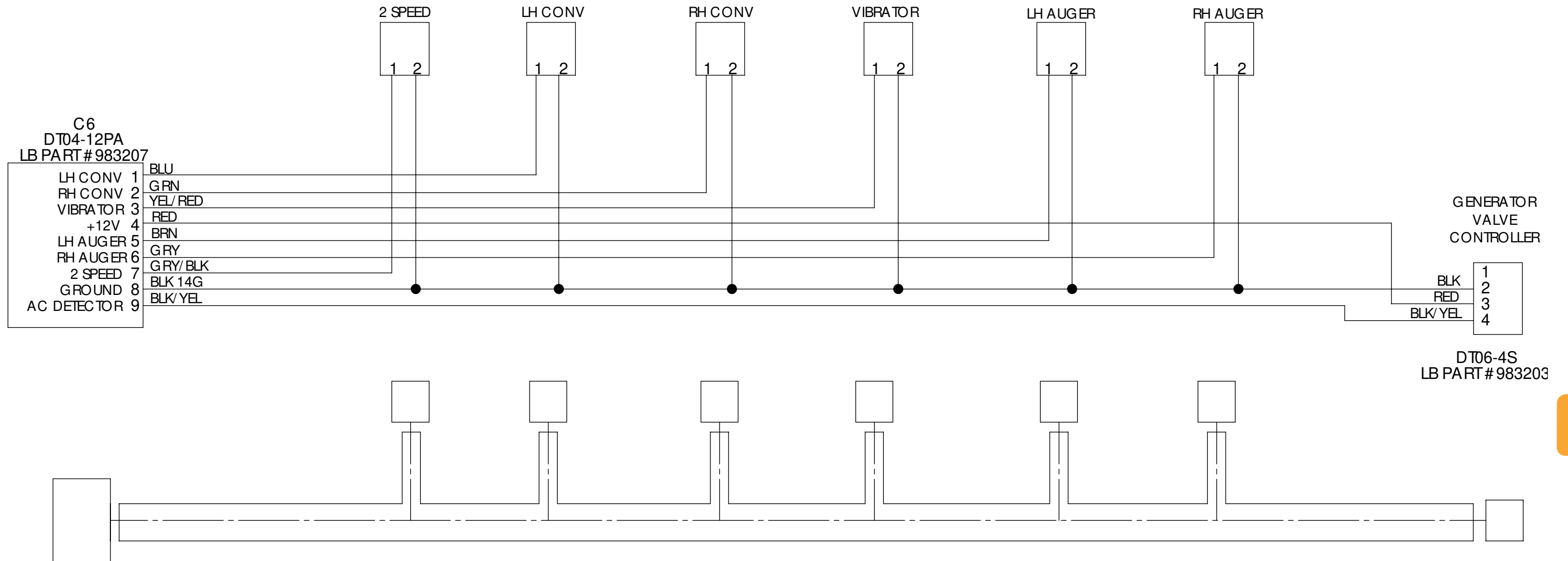


Figure 6-11. Lower Manifold Harness

NOTES

BULKHEAD TO GENERATOR HARNESS

Schematic for Part # 1016724

AMPHENOL
ACC 06 E20-22P

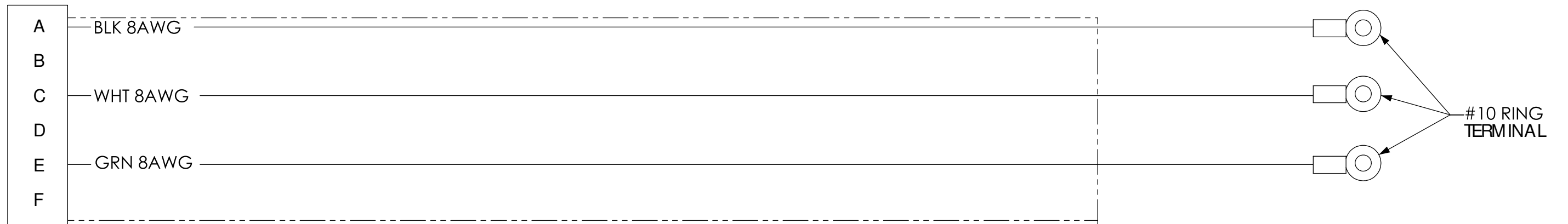
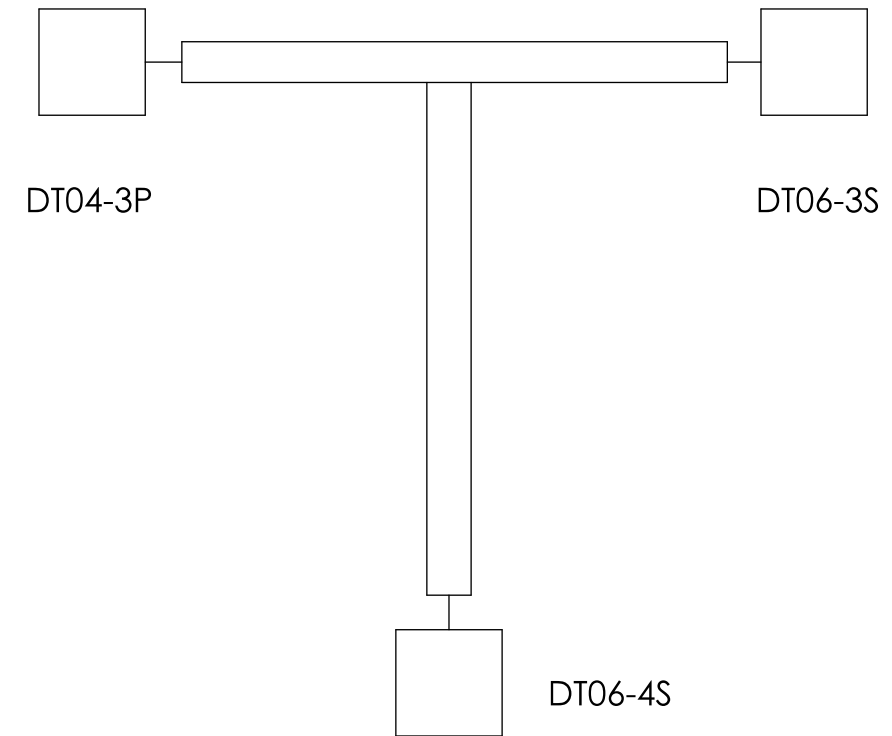
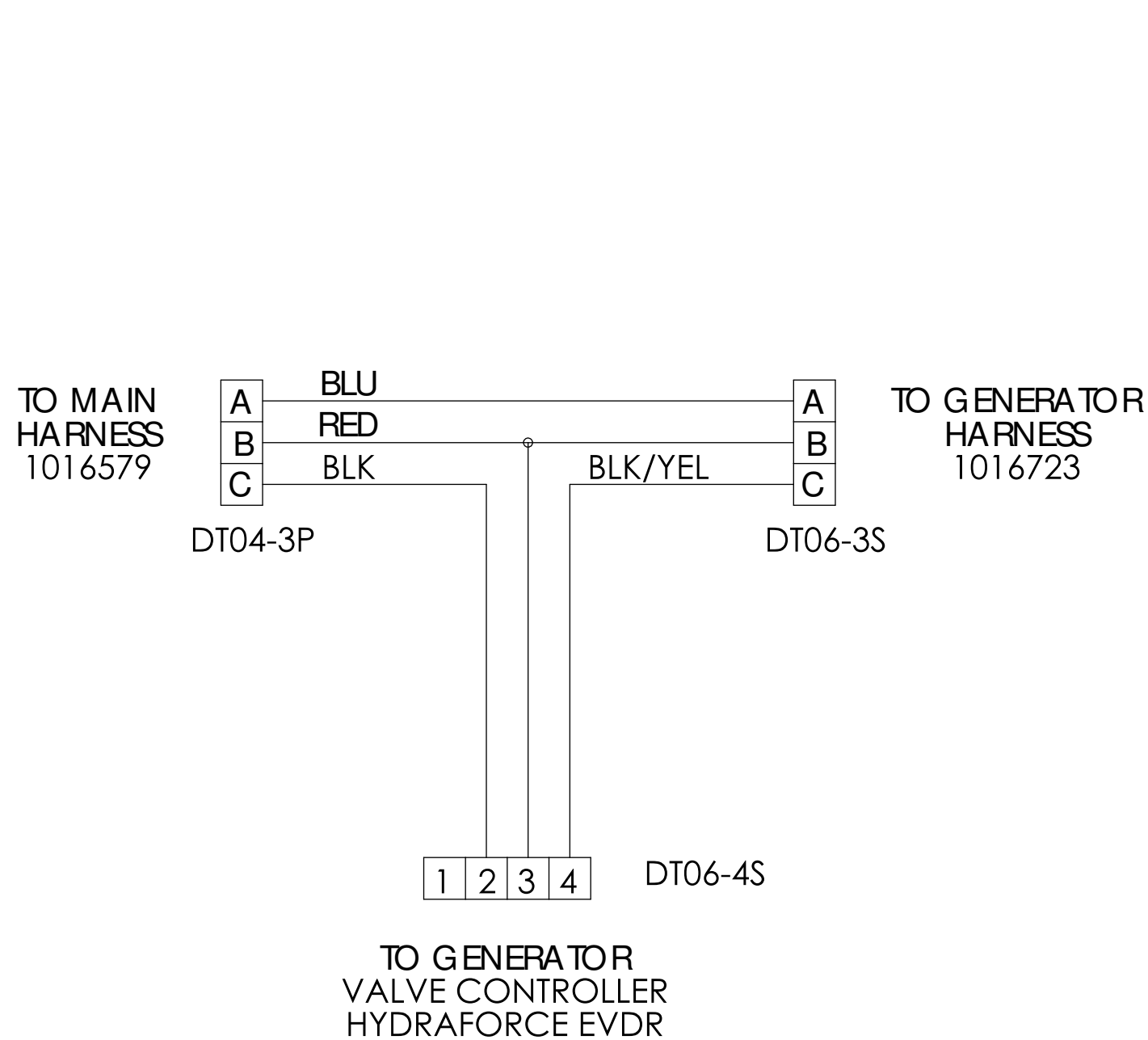


Figure 6-12. Bulkhead to Generator Harness

NOTES

GENERATOR VALVE ADAPTER HARNESS

Schematic for Part # 1017192



BILL OF MATERIALS			
ITEM	LB PART NUMBER	QTY	DESCRIPTION
	35150-5	3 FT	WIRE, BLACK, 18AWG TXL
	35150-1	4 FT	WIRE, RED, 18AWG, TXL
	35150-16	3 FT	WIRE, BLACK/YELLOW, 18 AWG, TXL
	35150-3	0.5 FT	WIRE, BLUE, 18AWG, TXL
	983200	1	CONN,3-PIN SOCKET,DT04-3P
	983211	1	CONNECTOR, WEDGELOCK, DEUTSCH, W3P
	983201	1	CONN,03-PIN,PLUG,DT06-3S DEUTSCH
	983210	1	CONNECTOR, 03-PIN, WEDGE, PLUG, DEUTSCH
	983203	1	CONN,04-PIN,PLUG,DT06-4S DEUTSCH
	983212	1	CONN,WEDGE,PLUG,4S,DEUTSCH
	982448	6	TERMINAL,SOCKET,DEUTSCH,14-16
	982456	3	PIN, DEUTSCH, 14-16AWG
	73192-02	1	SEAL PLUG, DEUTSCH, WHITE, SIZE 16-12

Figure 6-13. Generator Valve Adapter Harness

NOTES

HYDRAULIC COOLER HARNESS, SPAL FAN

Schematic for Part # 1019514

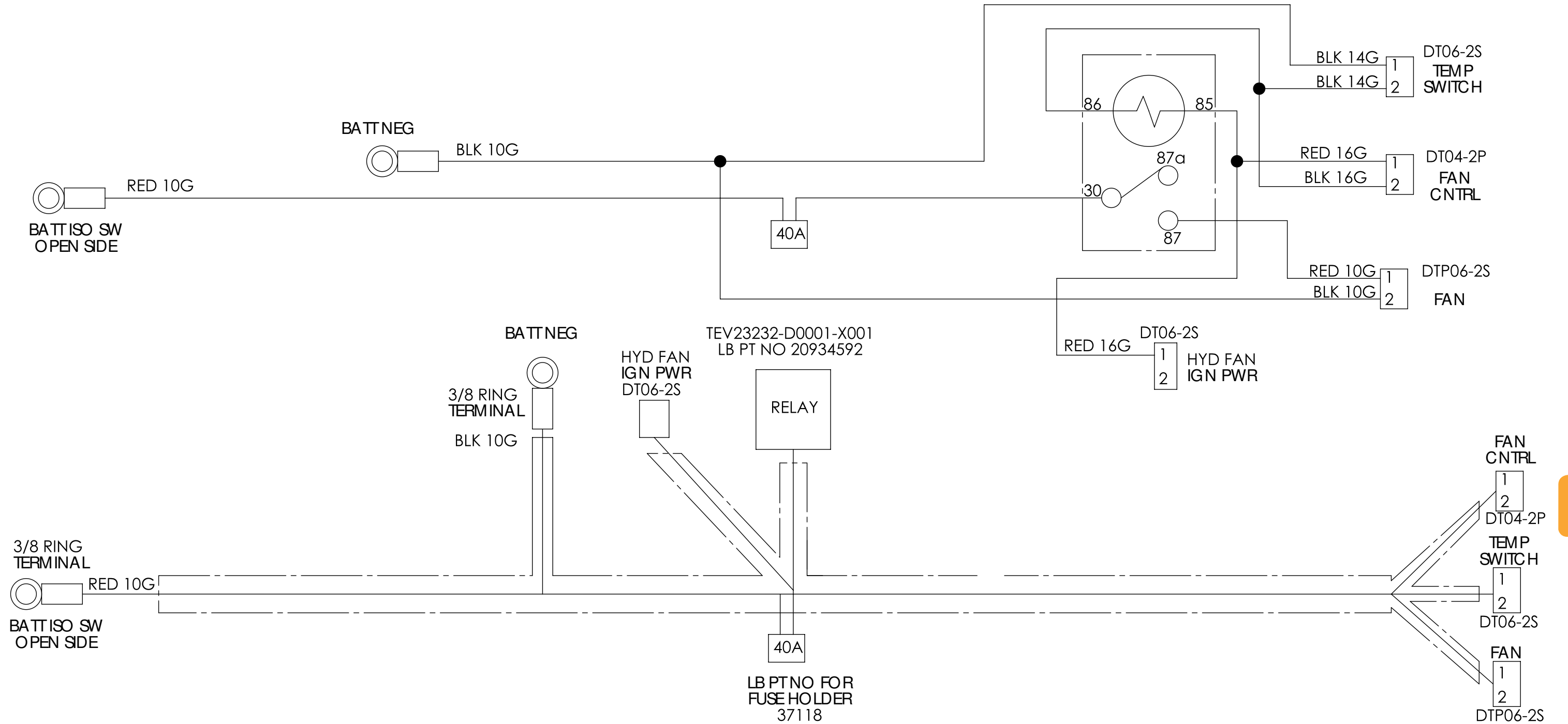


Figure 6-14. Hydraulic Cooler Harness

NOTES

SCREED 6 FUNCTION CONTROL BOX ASSEMBLY - LEFT

Schematic for Part # 1018750

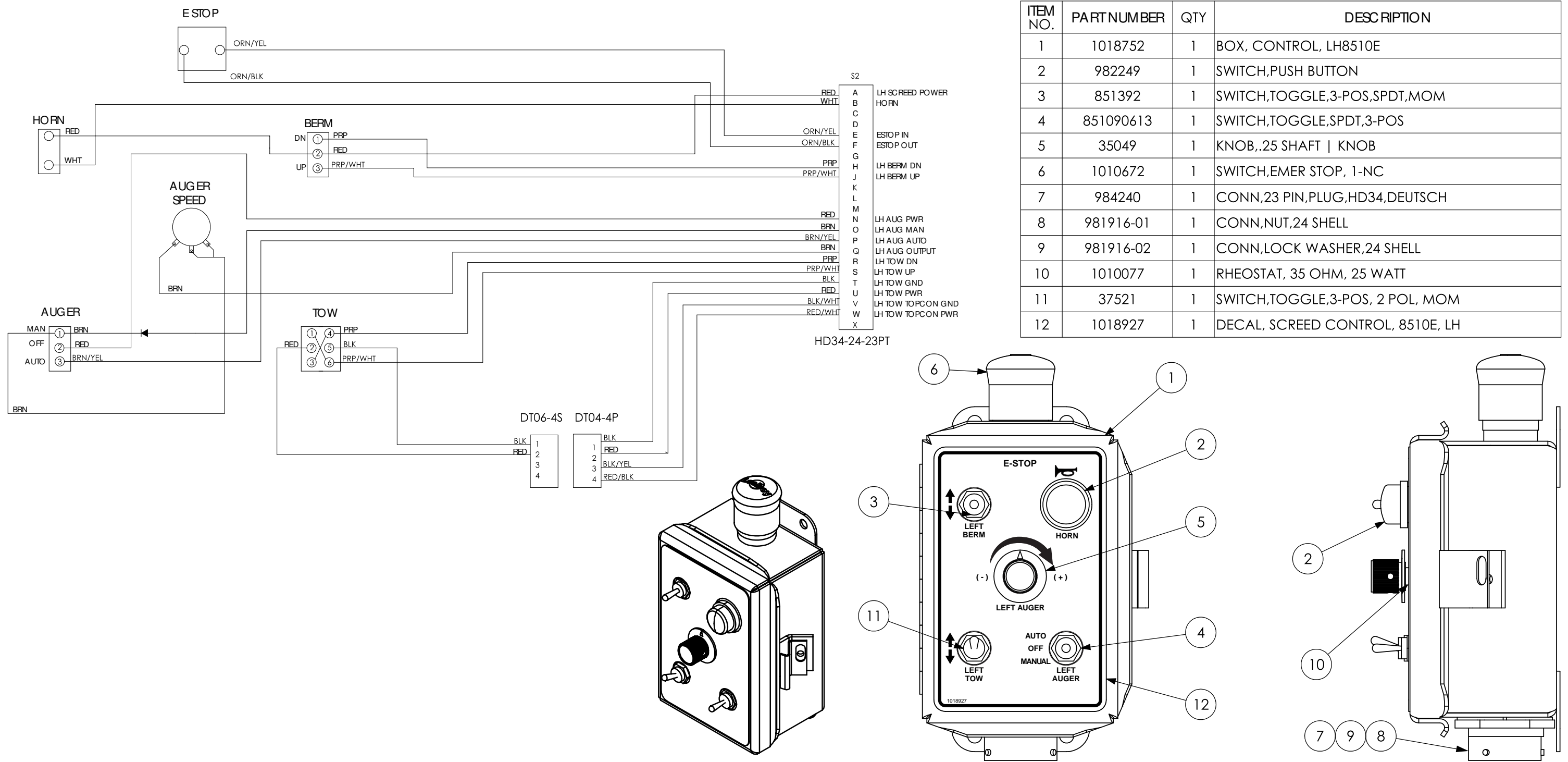
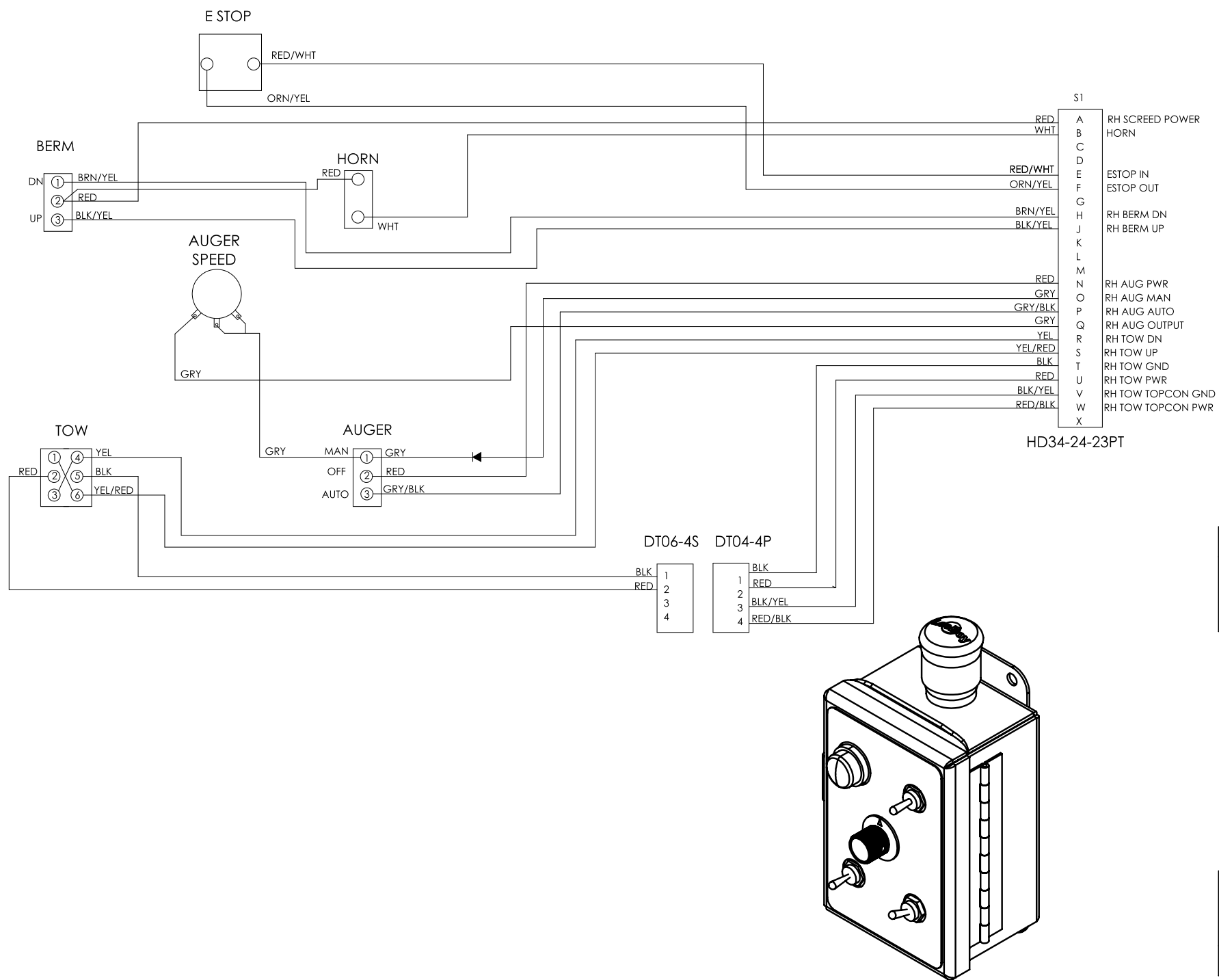


Figure 6-15. Screed 6 Function Control Box Assembly - Left

NOTES

SCREED 6 FUNCTION CONTROL BOX ASSEMBLY - RIGHT

Schematic for Part # 1018749



ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	1018751	1	BOX, CONTROL, RH 8510E
2	982249	1	SWITCH,PUSH BUTTON
3	851392	1	SWITCH,TOGGLE,3-POS,SPDT,MOM
4	851090613	1	SWITCH,TOGGLE,SPDT,3-POS
5	35049	1	KNOB,.25 SHAFT KNOB
6	1010672	1	SWITCH,EMER STOP, 1-NC
7	984240	1	CONN,23 PIN,PLUG,HD34,DEUTSCH
8	981916-01	1	CONN,NUT,24 SHELL
9	981916-02	1	CONN,LOCK WASHER,24 SHELL
10	1010077	1	RHEOSTAT, 35 OHM, 25 WATT
11	37521	1	SWITCH,TOGGLE,3-POS, 2 POL, MOM
12	1018926	1	DECAL, SCREED CONTROL, 8510E, RH

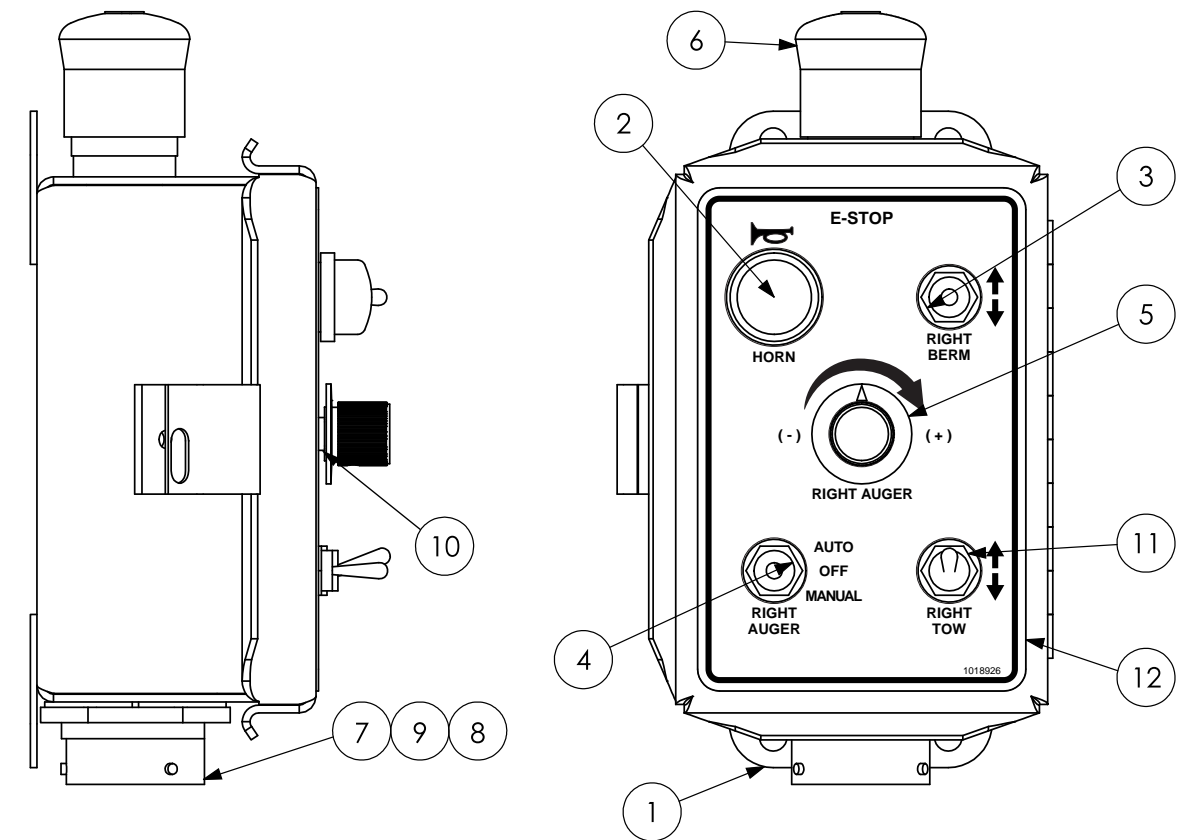
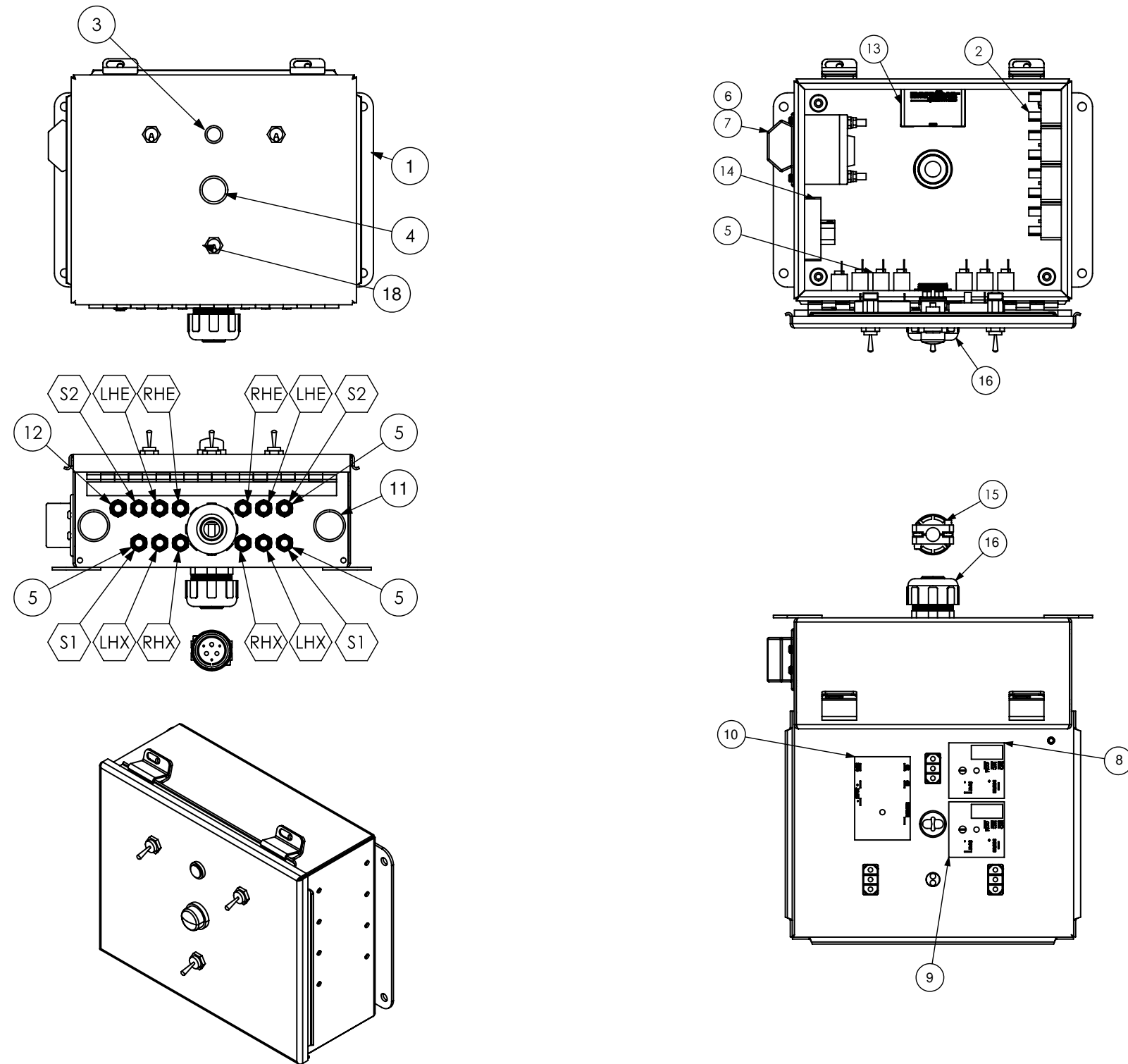


Figure 6-16. Screed 6 Function Control Box Assembly - Right

NOTES

10KW SCREED HEAT CONTROL BOX ASSEMBLY (1 OF 2)

Schematic for Part # 1016891



ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	1016890-01	1	ENCLOSURE, GENERATOR CONTROL BOX, WITH HOLES
2	985141	4	RELAY 12VDC, DPST, 25AMP, N/O
3	31983	1	LIGHT, RED, DASH, .50 HOLE
4	982249	1	SWITCH, PUSH BUTTON
5	1009228	12	CIRCUIT BREAKER, 10 AMP
6	1016901	1	CIRCUIT BREAKER, 40AMP, GENERATOR PROTECTION
7	1016892	1	BOOT, CIRCUIT BREAKER
8	985142	1	TIMER, ELECTRIC, .06-60 MIN
9	988230	1	RELAY, TIME DELAY, ON, 10 AMP
10	988231	1	OFF DELAY TIMER 5 SECONDS
11	35136-7	2	PLUG, HOLE, .875, FLUSH MT, PLSTC
12	985140	1	BREAKER, 15AMP
13	985138-04	1	BLOCK, TERMINAL WITH COVER
14	1017190	1	AC DETECTOR, HYDRAFORCE, GENERATOR CONTROLLER
15	985687	1	CONN, 06-PIN, MALE, AMPHENOL
16	1017228	2	WATER TIGHT, FOR SOLID PVC FLEX CONDUIT .750 MPT
17	1017229	5	CONDUIT, FLEX PVC .750
18	851391	3	SWITCH, TOGGLE, SPST, 2-POS

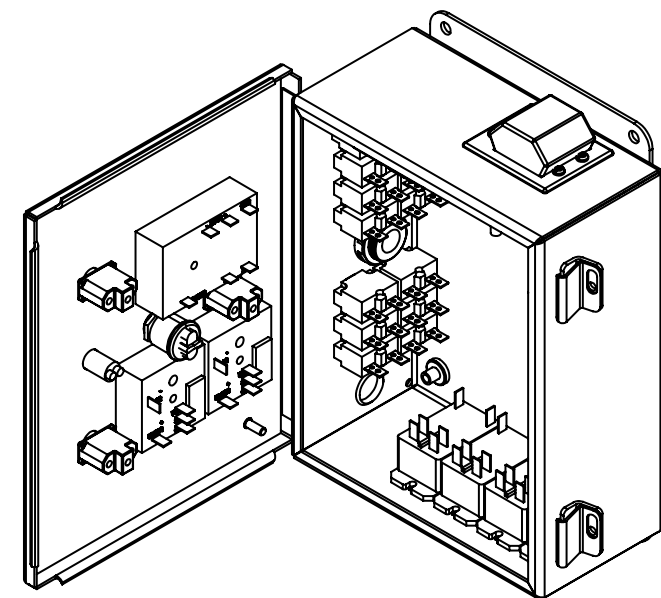


Figure 6-17. 10kW Screed Heat Control Box Assembly (1 of 2)

NOTES

10KW SCREED HEAT CONTROL BOX ASSEMBLY (2 OF 2)

Schematic for Part # 1016891

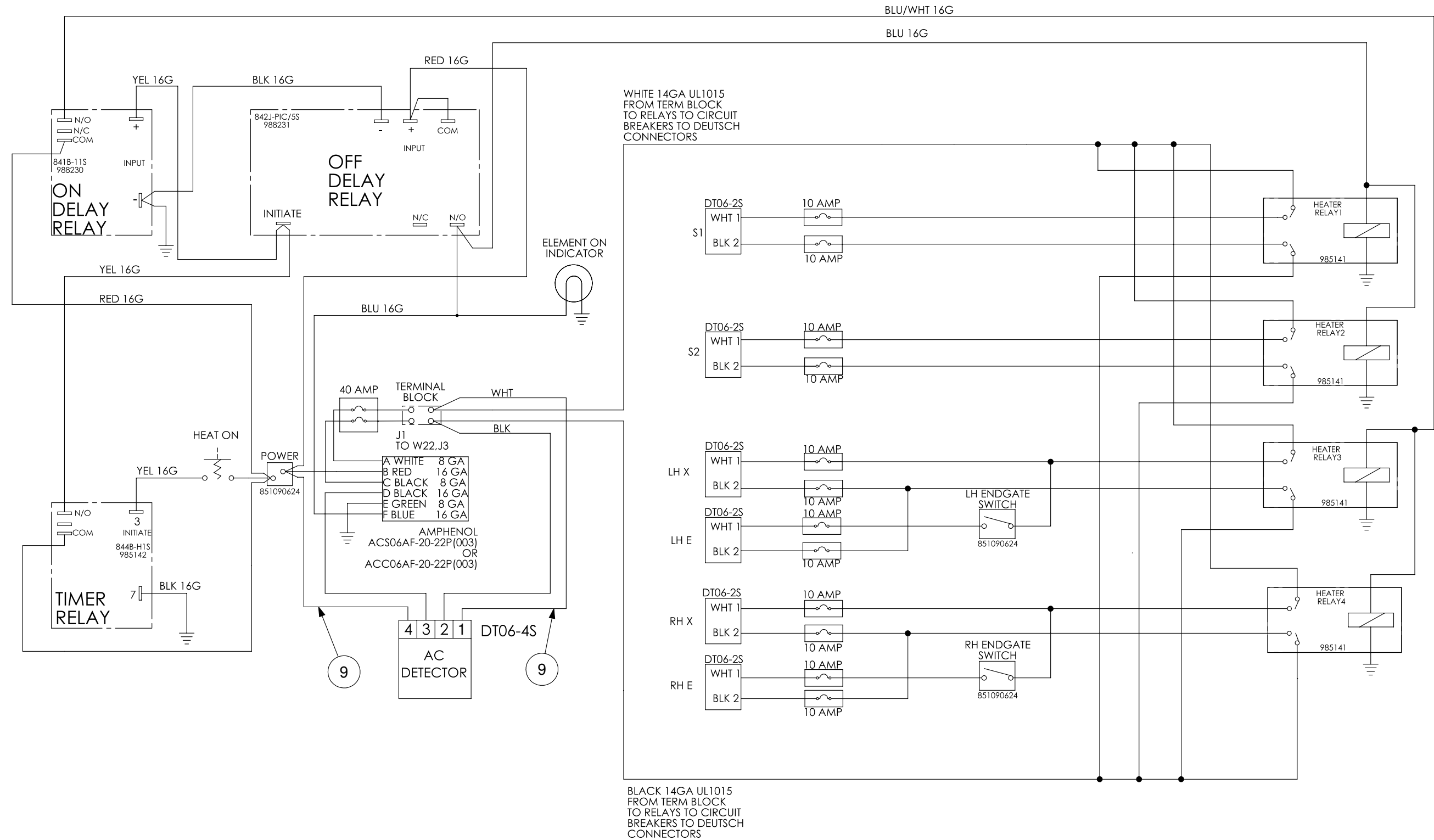


Figure 6-18. 10kW Screed Heat Control Box Assembly (2 of 2)

NOTES

NOTES

SCREED LOCK HARNESS

Schematic for Part # 1019020

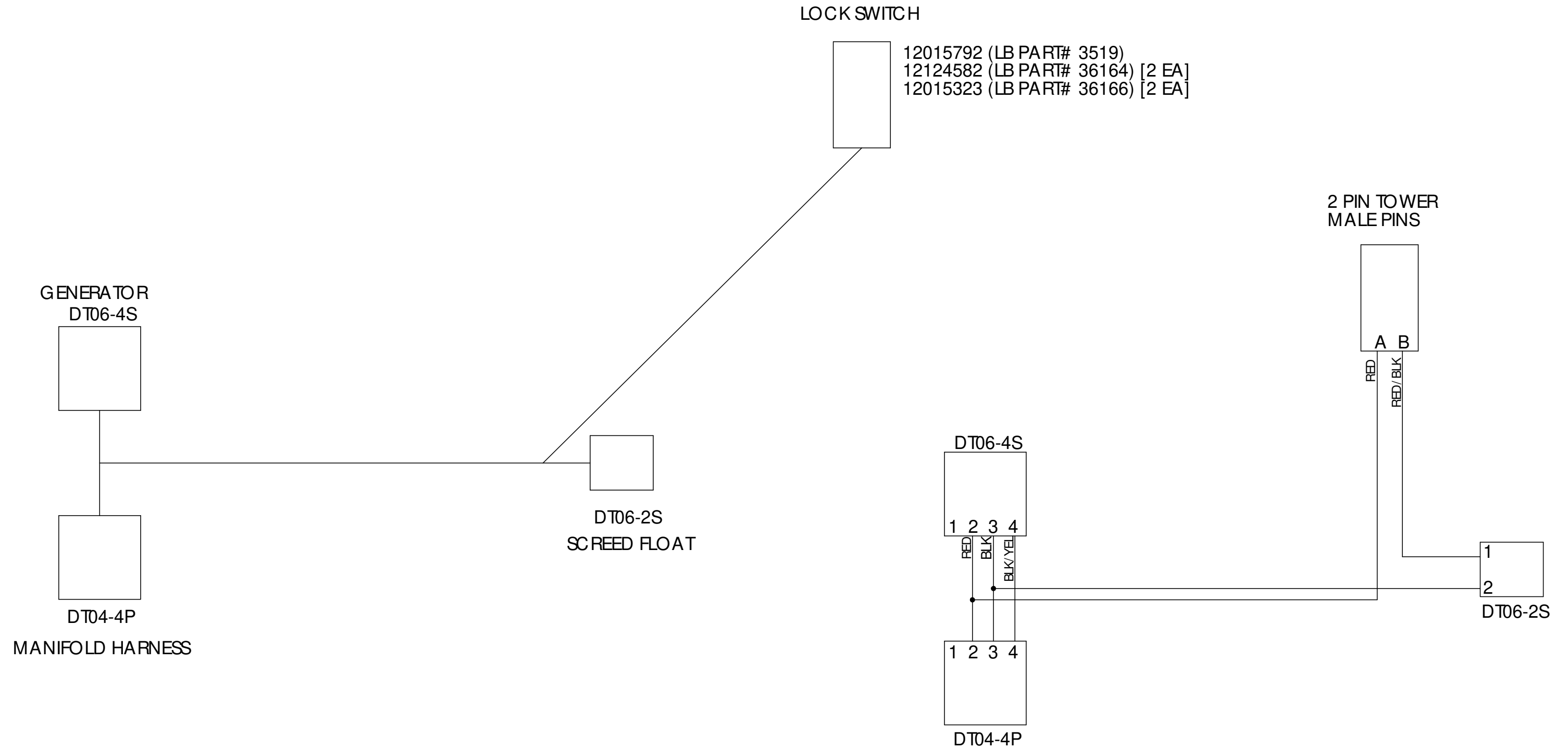


Figure 6-20. Screed Lock Harness

NOTES

JUMPER HEATER ELEMENT HARNESS

Schematic for Part # 1008877

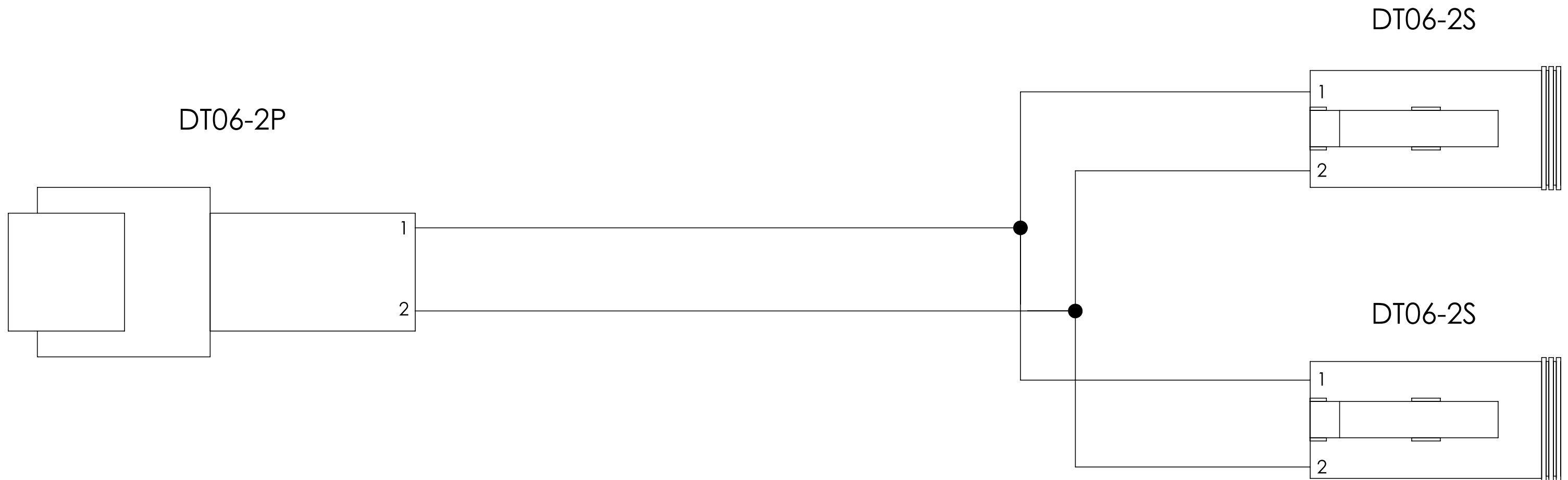


Figure 6-21. Jumper Heater Element Harness

NOTES

OPTIONAL - AUTOMATIC TEMPERATURE CONTROL HARNESS

Schematic for Part # 1017774

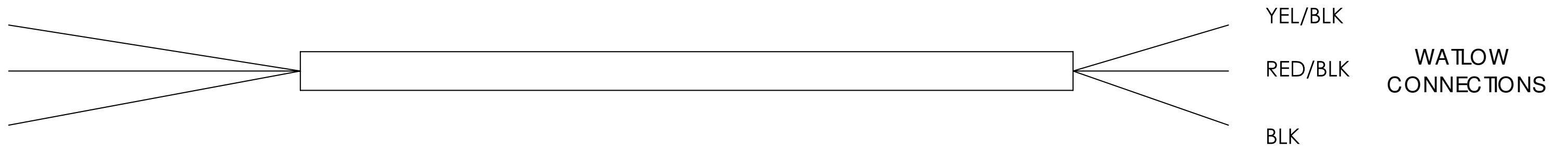
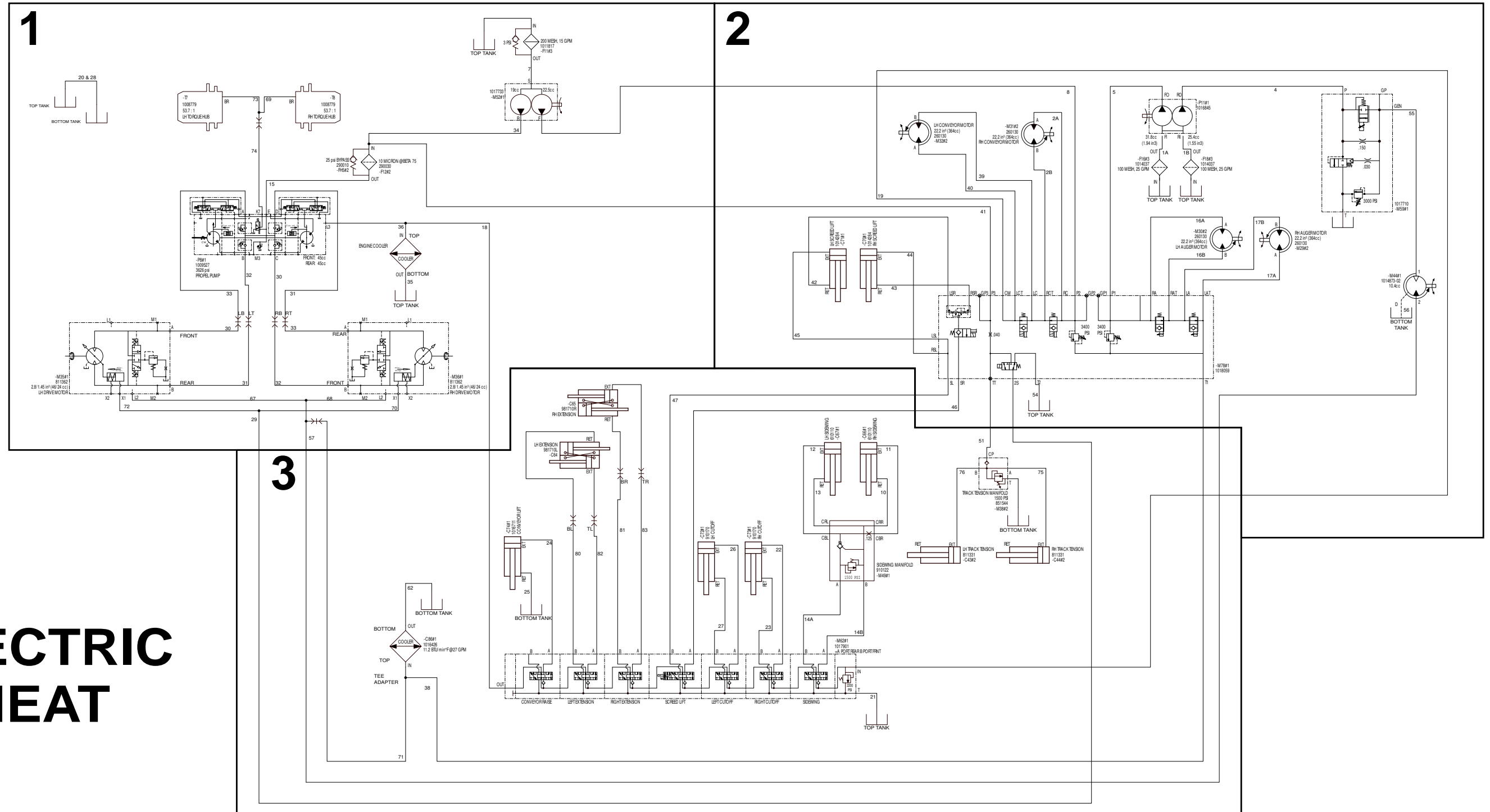


Figure 6-22. Optional - Automatic Temperature Control Harness

NOTES

HYDRAULIC SCHEMATIC - ELECTRIC HEAT (1 OF 4)

Schematic for Part # 1018972



ELECTRIC HEAT

FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

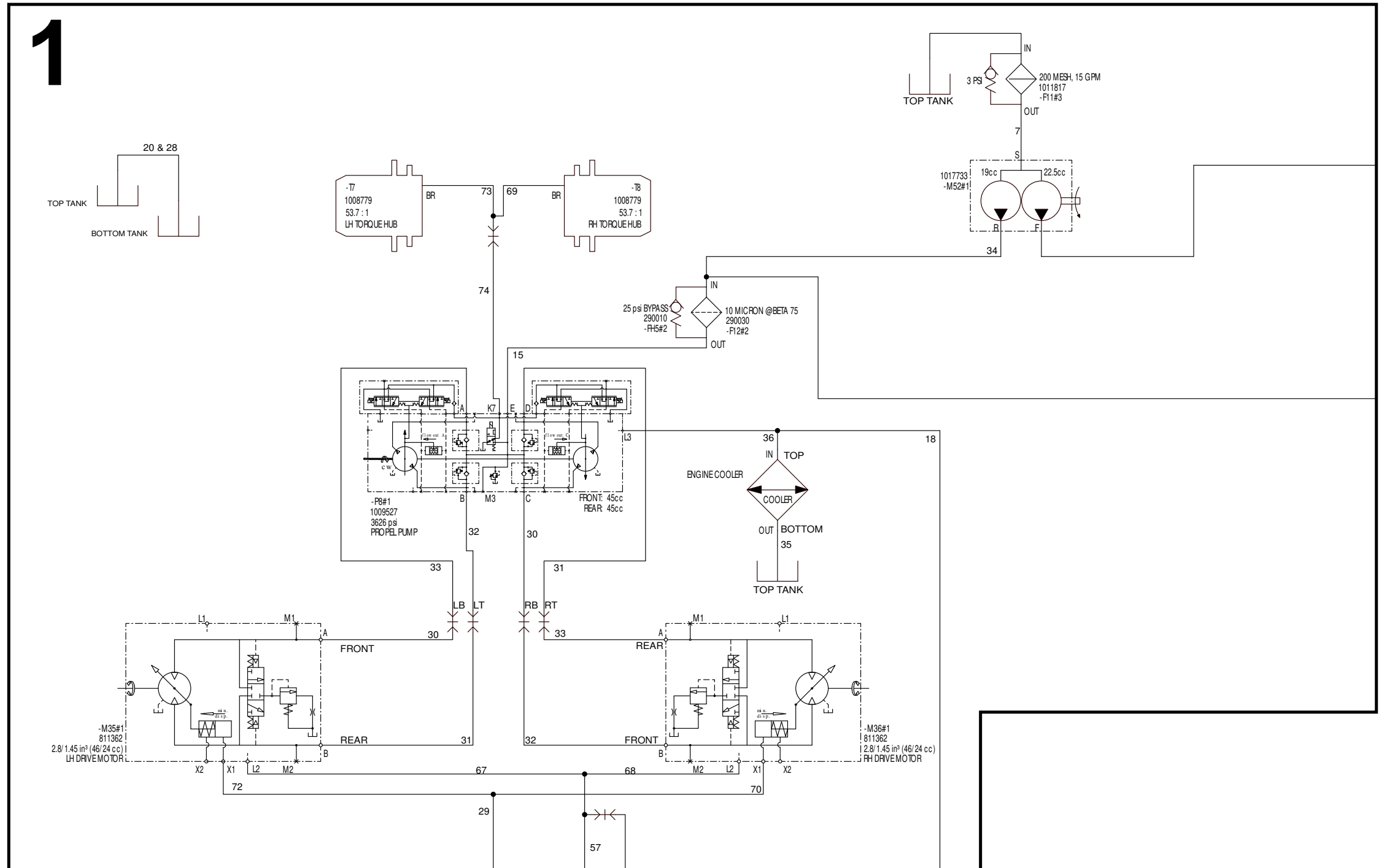
Figure 6-23. Hydraulic Schematic - Electric Heat (1 of 4)

NOTES

HYDRAULIC SCHEMATIC - ELECTRIC HEAT (2 OF 4)

Schematic for Part # 1018972

ELECTRIC HEAT



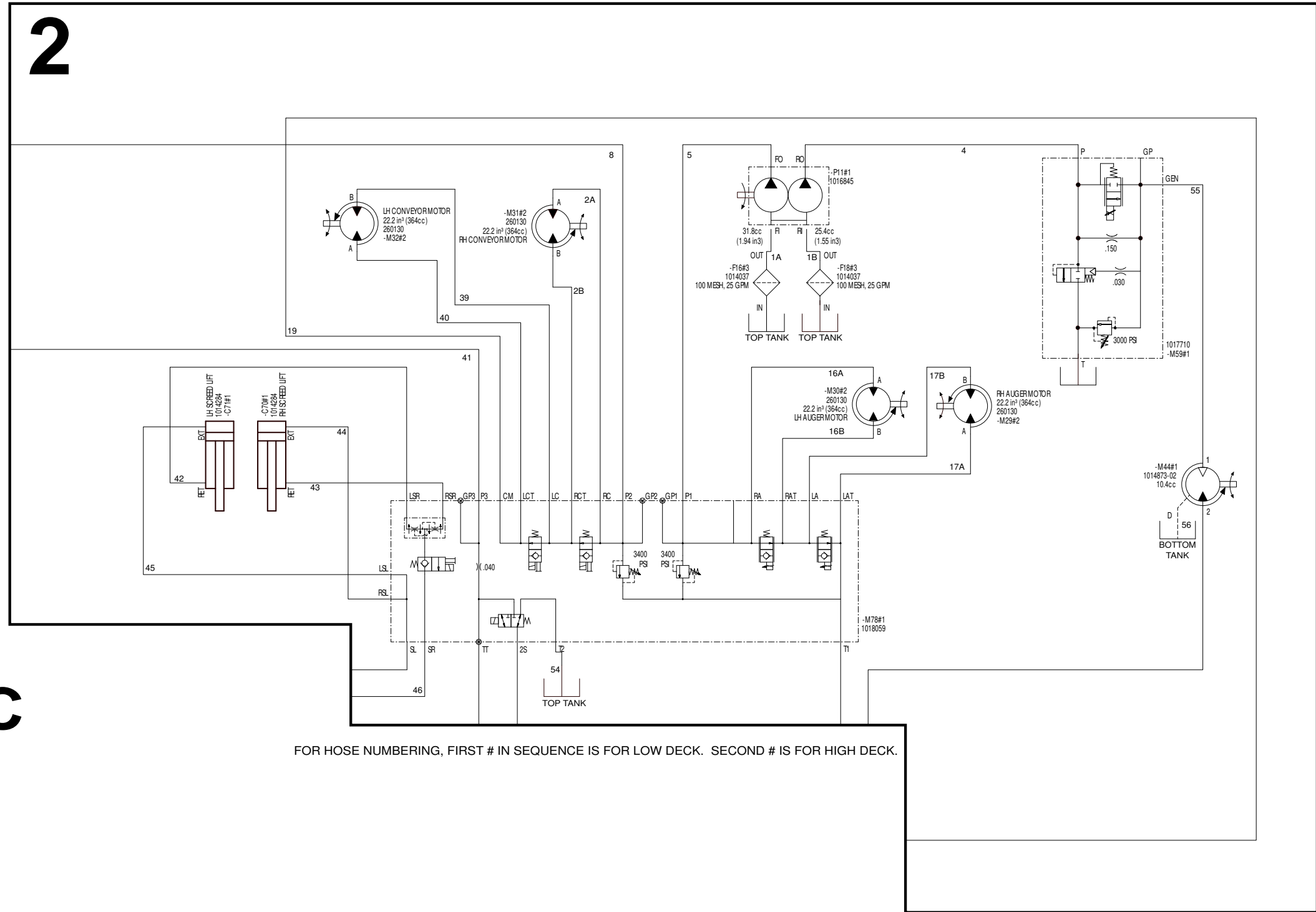
FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

Figure 6-24. Hydraulic Schematic - Electric Heat (2 of 4)

NOTES

HYDRAULIC SCHEMATIC - ELECTRIC HEAT (3 OF 4)

Schematic for Part # 1018972



ELECTRIC HEAT

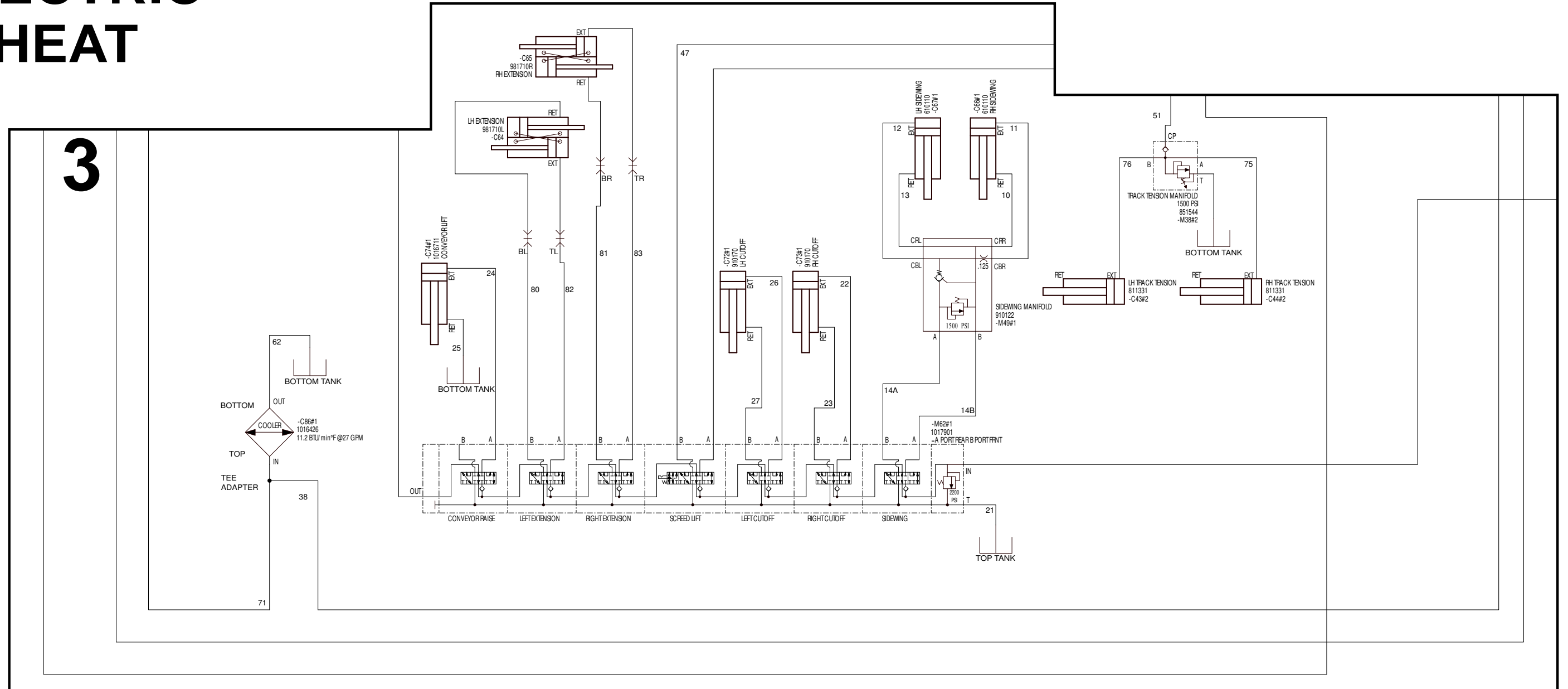
Figure 6-25. Hydraulic Schematic - Electric Heat (3 of 4)

NOTES

HYDRAULIC SCHEMATIC - ELECTRIC HEAT (4 OF 4)

Schematic for Part # 1018972

ELECTRIC HEAT



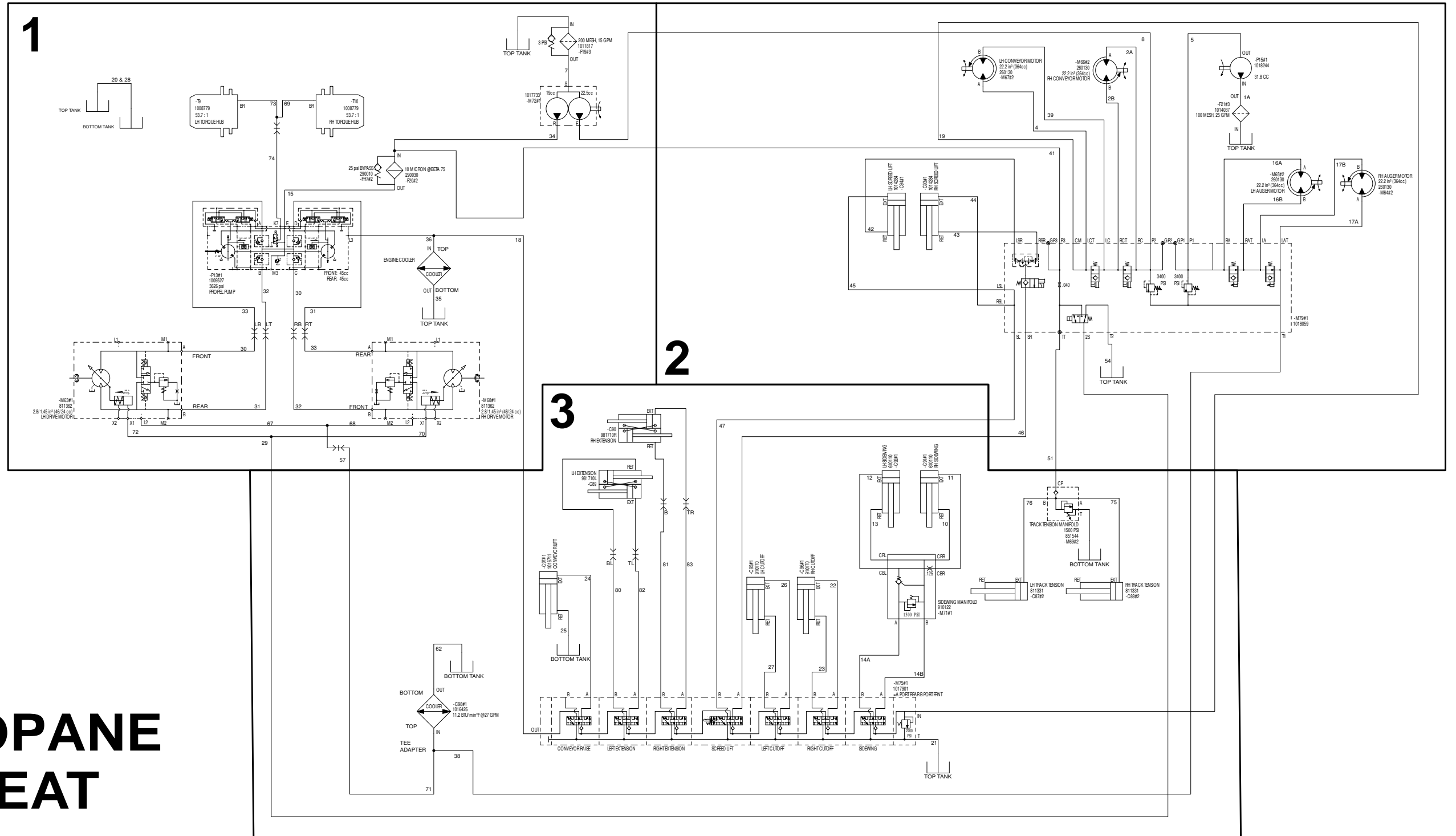
FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

Figure 6-26. Hydraulic Schematic - Electric Heat (4 of 4)

NOTES

HYDRAULIC SCHEMATIC - PROPANE HEAT (1 OF 4)

Schematic for Part # 1018972



FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

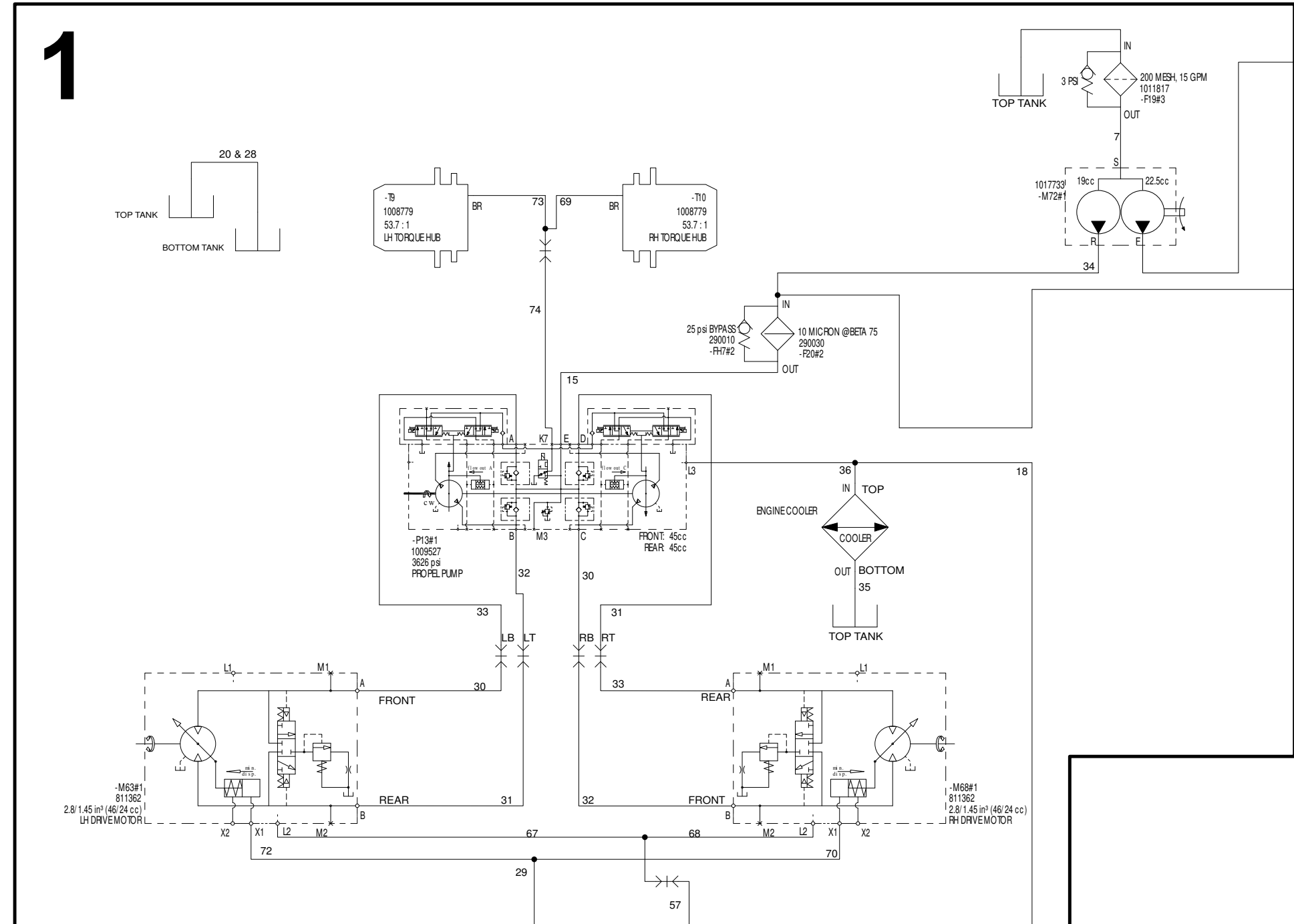
Figure 6-27. Hydraulic Schematic - Propane Heat (1 of 4)

NOTES

HYDRAULIC SCHEMATIC - PROPANE HEAT (2 OF 4)

Schematic for Part # 1018972

PROPANE HEAT



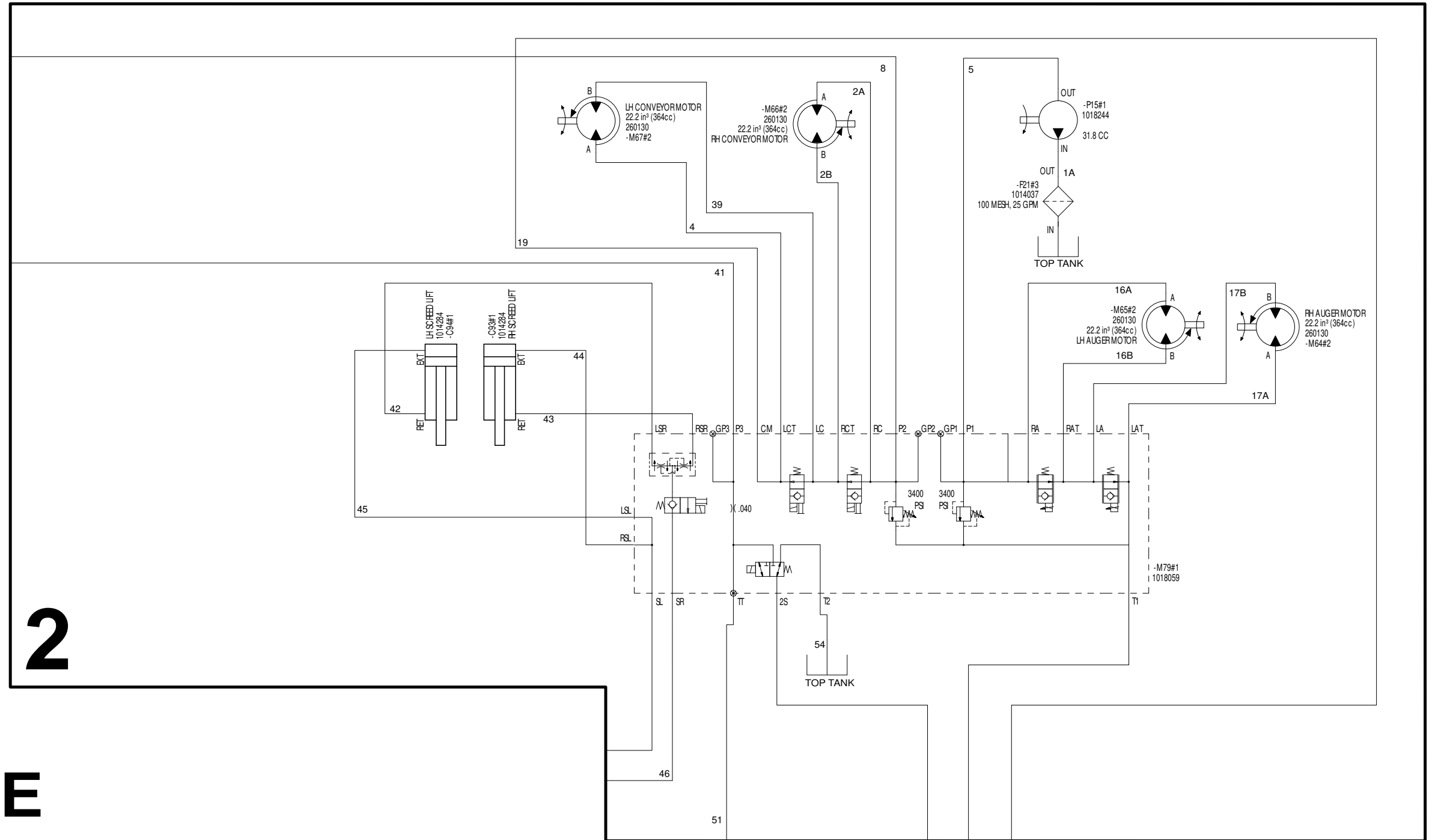
FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

Figure 6-28. Hydraulic Schematic - Propane Heat (2 of 4)

NOTES

HYDRAULIC SCHEMATIC - PROPANE HEAT (3 OF 4)

Schematic for Part # 1018972



FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

Figure 6-29. Hydraulic Schematic - Propane Heat (3 of 4)

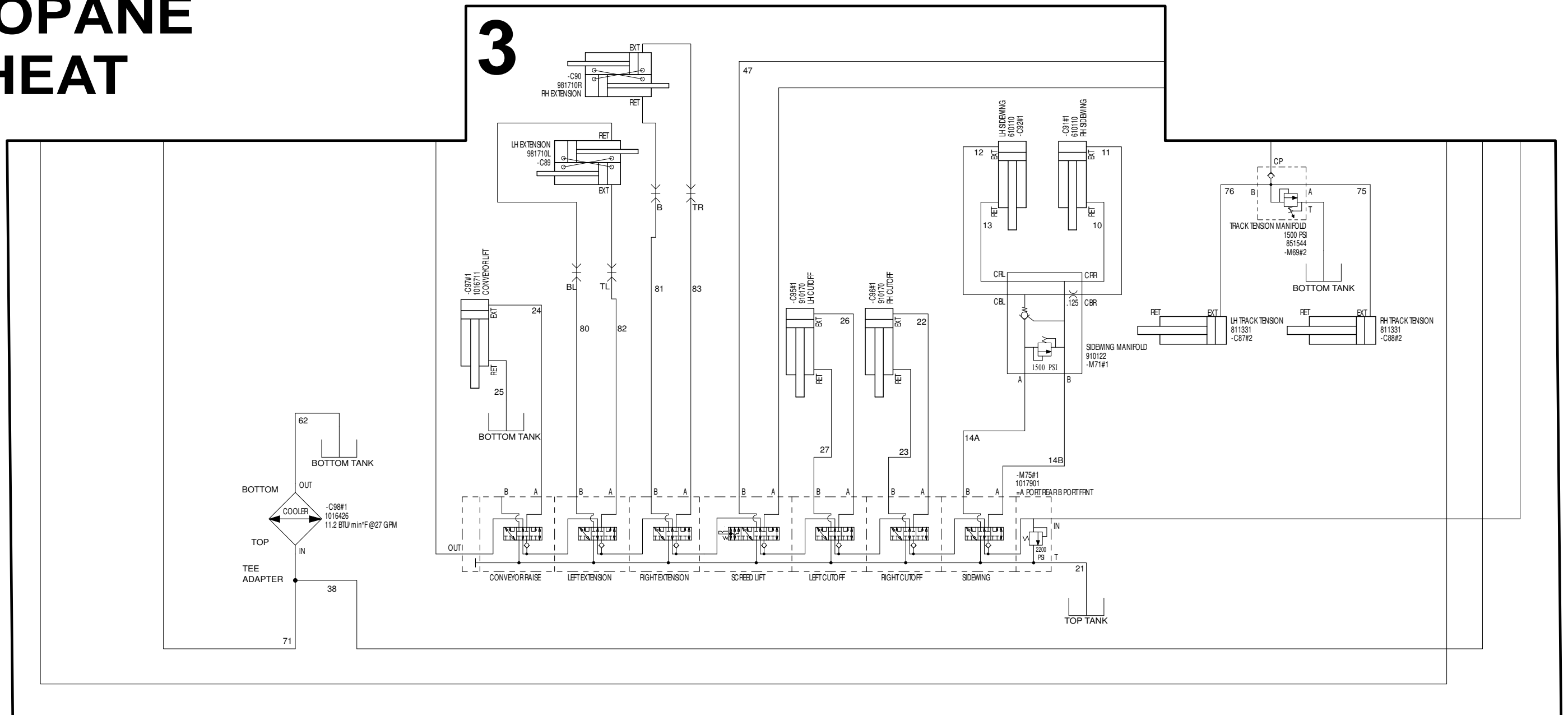
PROPANE
HEAT

NOTES

HYDRAULIC SCHEMATIC - PROPANE HEAT (4 OF 4)

Schematic for Part # 1018972

PROPANE HEAT



FOR HOSE NUMBERING, FIRST # IN SEQUENCE IS FOR LOW DECK. SECOND # IS FOR HIGH DECK.

Figure 6-30. Hydraulic Schematic - Propane Heat (4 of 4)

NOTES

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QUICK REFERENCE





FILTERS/STRAINERS		
Engine	Description	Part #
	Oil Filter	986537-03
	Water Separator	1009253-19
	Fuel Filter	1009253-18
	Air Cleaner, Primary	1009253-17
	Air Cleaner, Secondary	1009253-16
Hydraulic		
	Suction Strainer, 1-7/8-12 SAE	1011817
	Suction Strainer, 2-1/2-12 SAE	1014037
	Charge Filter	290030
	Charge/Return Filter Head	1017402
Spray Down		
	Pump and Strainer Kit	1015532
	Filter	986537-31




ENGINE COMPONENTS		
	Description	Part #
	Engine Belt	1009253-20
	Alternator	1009253-21
	Starter	1001166-03

ELECTRICAL COMPONENTS		
	Description	Part #
	FUSE KIT:	
	• 5A ATC	36746
	• 10A ATC	36340
	• 15A ATC	36341
	• 20A ATC	36342
	FUSE KIT	
	• 5A ATM	1017776-05
	• 20A ATM	1017776-20
	• 30A ATM	1017776-30
	Fuse Block, ATC	685060

	Breaker, 10A	986546
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TRACK ASSEMBLIES		
	Description	Part #
	Track Assembly w/Poly Pads	851101P
	Track Assembly w/Cast Pads	851101
	Continuous Rubber Track	982585

WEAR PLATES		
LEGEND LP Scred		
	Main Scred Wear Plate	981724SRV
	Extension Heat Box Assy (LH/RH)	851182SRV
LEGEND Electric Scred		
	Main Scred Wear Plate	987216SRV
	Extension Heat Box Assy (LH/RH)	987872SRV
HD Scred		
	HD Main Scred, 3/8" w/ Studs	1016475
	HD Ext. Heat Box Assy (LH/RH)	1006380SRV
	Berm Ext. Main Heat Box Assy (LH)	1017683SRV
	Berm Ext. Main Heat Box Assy (RH)	1017682SRV

HEATING ELEMENTS		
LEGEND Electric Scred		
	Legend Main Heating Element (2)	987886SRV
	Legend Extension HE (2)	987890SRV
HD Scred		
	HD Main Heating Element (2)	1015855SRV
	HD Ext Heating Element (2)	1007278SRV
	Berm Main Ext. HE (2)	1015936
	Berm Ext. Heating Element (2)	1015918

Specifications and designs may change without prior notice. These illustrations do not necessarily show the standard versions.

Illustrated Parts List

DRIVE ASSEMBLY - POLY PADS/CAST STEEL (1 OF 2)

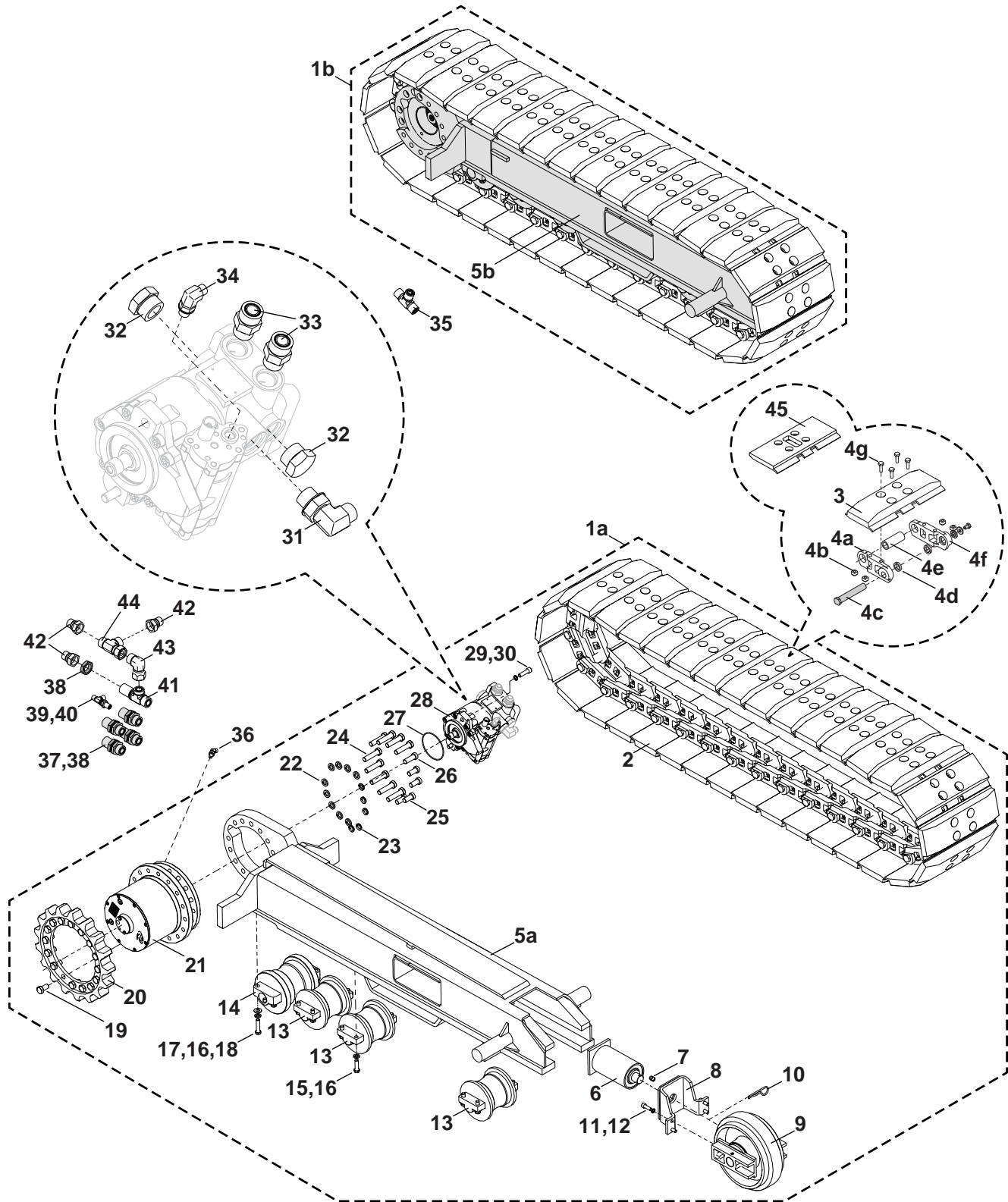


Figure 7-1. Drive Assembly - Poly Pads/Cast Steel (1 of 2)

Drive Assembly - Poly Pads/Cast Steel (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1017203		Group - PolyPad Drive	
1a	1009742	1	Polypad Track/Undercarriage Assembly - Right	
1b	1009741	1	Polypad Track/Undercarriage Assembly - Left	
2	851101P	2	Track Assembly w/Polypads	Includes Items 29 - 39
3	851104	A/R	Poly Track Pad, 14"	
4	811312	A/R	Track Repair Link Kit	Includes Items 4a-4g
4a	853195	A/R	Track Chain Link - Right	
4b	811309	A/R	Track Pad Bolt Nut	
4c	811306	A/R	Master Track Link Pin Kit	
4d	811310	A/R	Track Link Bushing Spacer	
4e	851460	A/R	Track Link Short Bushing	
4f	853194	A/R	Track Chain Link - Left	
4g	811308	A/R	Track Pad Hex Bolt	
5a	1008789	1	Undercarriage Weldment - Right	
5b	1008788	1	Undercarriage Weldment - Left	
6	811331	2	Hydraulic Cylinder, Track Tensioner	
7	851644	2	Track Tensioner Cylinder Breather	Included With Item 6
REF	1016860	1	Track Tensioner Hose Kit	Not Shown
REF	811331-01	A/R	Seal Kit, Track Tensioner Cylinder	
8	811329A	2	Track Idler Yoke - Front	
9	1001589	2	Track Idler - Front	
10	870307	2	Cotter Pin, .177, 7 GA	
11	102-M10-1.5-30-10.9F	8	CSSH, M10x1.5 x 30mm, C10.9, FT	
12	307-M10	8	Washer, Lock, Hi-Collar, M10	
13	811326	6	Track Roller, B/O	
14	851566	2	Track Roller, B/1, N/S	
15	100-M12-1.75-40-8.8F	A/R	CSHH, M12x1.75 x 40mm, C8.8, FT	
16	302-8	A/R	Washer, Lock, 1/2	
17	100-M12-1.75-50-8.8F	8	CSHH, M12x1.75 x 50mm, C8.8, FT	
18	300-8	8	Washer, Flat, SAE, 1/2	
19	100-M16-2-30-8.8F	A/R	CSHH, M16x2 x 30, C8.8, FT	
20	1006737	2	Track Sprocket - Comer	
21	1008779	2	Torque Hub w/Disconnect - Comer	
22	302-10	A/R	Washer, Lock, 5/8	
23	307-M16	10	Washer, Lock, Hi-Collar, M16	
24	100-M16-2-65-8.8F	18	CSHH, M16x2 x 65, C8.8, FT	
25	1008895	8	Low Socket Cap Screw, M16x2 x 35	
26	1008903	2	Low Socket Cap Screw, M16x2 x 45	
27	811366	2	O-Ring, Hydraulic Motor to Torque Hub	

Illustrated Parts List

DRIVE ASSEMBLY - POLY PADS/CAST STEEL (2 OF 2)

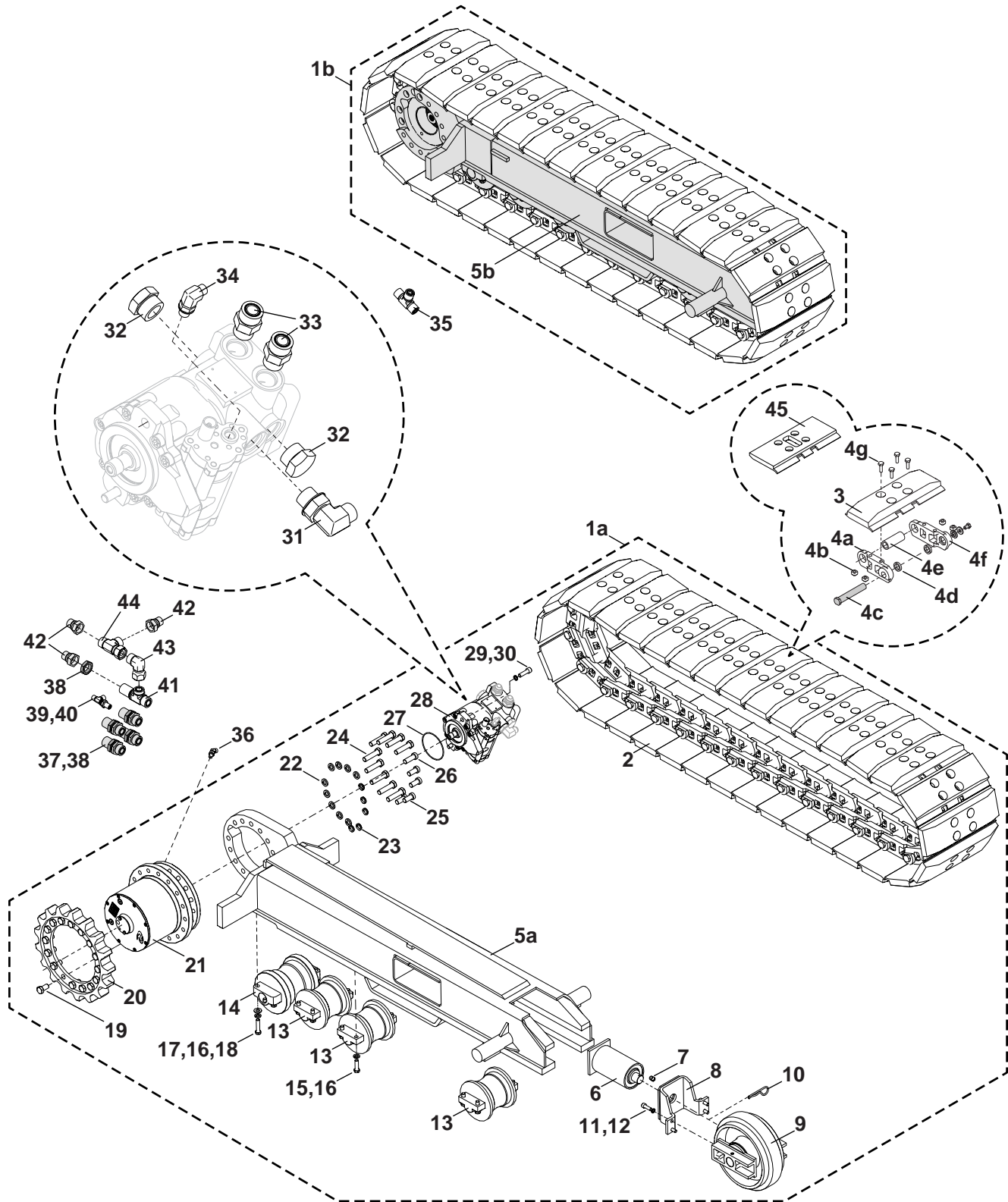


Figure 7-1. Drive Assembly - Poly Pads/Cast Steel (2 of 2)

Drive Assembly - Poly Pads/Cast Steel (2 of 2)

Item No	Part Number	Qty	Description	Remarks
28	811362	2	Hydraulic Drive Motor, 2-Speed	
REF	59941203	A/R	Seal, Hydraulic Drive Motor	Not Shown
REF	1016854	1	Drive Motors Hose Kit	Not Shown
29	102-M12-1.75-40-8.8F	4	CSSH, M12x1.75 x 40, C8.8, FT	
30	307-M12	4	Washer, Lock, Hi-Collar, M12	
31	FS6801-10-12-NWO-FG	2	Elbow Adapter, 90°, -10 ORFS / -12 O-Ring	
32	6408-16-O	4	Plug Adapter, O-Ring, -16	
33	FS6400-12-12-O	4	Straight Adapter, -12 ORFS / -12 O-Ring	
34	FS6801-04-06-NWO-FG	2	Elbow Adapter, 90°, -4 ORFS/ -6 O-Ring	
35	FS2603-04-04-04	1	Union Tee Adapter, -4 ORFS / -4 ORFS / -4 ORFS	
36	FS6802-04-04-NWO-FG	2	Elbow Adapter, 45°, -4 ORFS/ -4 O-Ring	
37	FS2700-12-12	4	Bulkhead Union Adapter, -12 ORFS / -12 ORFS	
38	FS0306-12	5	Bulkhead Lock Nut, -12 ORFS	
39	FS2704-04-04-04-FG	1	Run Tee Bulkhead Adapter, -04 ORFS (x3)	
40	FS0306-04	1	Bulkhead Lock Nut, -4 ORFS	
41	FS2704-12-12-12-FG	1	Run Tee Bulkhead Adapter, -12 ORFS (x3)	
42	FS2406-12-10	3	Straight Reducer Adapter, -12 FFORX/-10 ORFS	
43	FS6500-12-12-FG	1	Swivel Elbow Adapter, 90°, -12 ORFS/-12 ORFS	
44	FS6602-12-12-12-FG	1	Swivel Run Tee Adapter, -12 ORFS (x3)	
GRP	1017205		Group - Cast Steel Drive	Not Shown
REF	1009739	1	Steel Track/Undercarriage Assembly - Right	Not Shown
REF	1009738	1	Steel Track/Undercarriage Assembly - Left	Not Shown
REF	851101	2	Track Assembly w/Cast Steel Pads	Not Shown
45	811304	A/R	Cast Steel Track Pad	

Illustrated Parts List

DRIVE ASSEMBLY - CONTINUOUS RUBBER (1 OF 2)

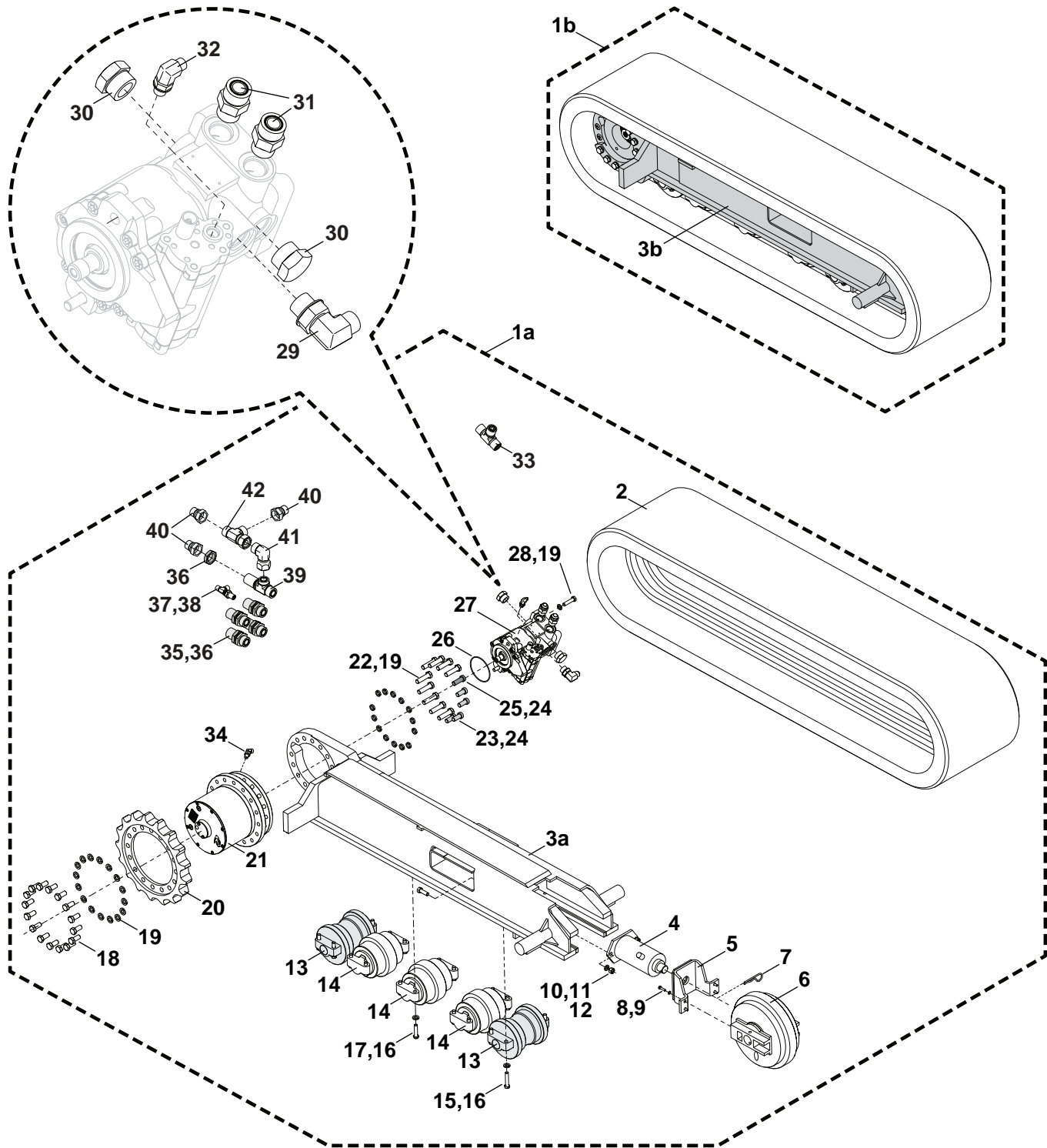


Figure 7-2. Drive Assembly - Continuous Rubber (1 of 2)

Drive Assembly - Continuous Rubber (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1017204		Group - Rubber Track Drive	
1a	1009874	1	Rubber Track/Undercarriage Assembly - Right	Includes Items 2,3a,4-33
1b	1009873	1	Rubber Track/Undercarriage Assembly - Left	Includes Items 2,3b,4-33
2	982585	2	Continuous Rubber Track	
3a	1009466	1	Comer Undercarriage Weldment, Comer - Right	
3b	1009465	1	Comer Undercarriage Weldment, Comer - Left	
4	811331	2	Cylinder, Track Tensioner	
REF	811331-01	A/R	Seal Kit, Track Tensioner Cylinder	Not Shown
REF	1016860	A/R	Track Tensioner Hose Kit	Not Shown
5	811329ASRV	2	Front Track Idler Yoke, Short	
6	983530	2	Front Idler	
7	870307	2	Cotter Pin, .177, 7 GA	
8	100-4-20-16-5F	8	CSHH, 1/4-20 x 1.00, GR5, FT	
9	302-4	8	Washer, Lock, 1/4	
10	100-8-13-28-5	4	CSHH, 1/2-13 x 1.75, GR5	
11	302-8	4	Washer, Lock, 1/2	
12	200-8-13-5	4	Nut, Hex, 1/2-13, GR5	
13	851566	4	Undercarriage Roller - Large	
14	983588	6	Track Roller, B/1, Inner Flange	
15	100-M12-1.75-60-8.8F	16	CSHH, M12x1.75 x 60mm, C8.8, FT	
16	302-9	A/R	Washer, Lock, 9/16	
17	100-M12-1.75-50-8.8F	A/R	CSHH, M12x1.75 x 50mm, C8.8, FT	
18	100-M16-2-35-8.8F	A/R	CSHH, M16x2 x 35mm, C8.8, FT	
19	302-10	A/R	Washer, Lock, 5/8	
20	1009464	2	Rubber Track Sprocket, Comer	
21	1008779	2	Torque Hub w/Disconnect, Comer	
22	100-M16-2-60-8.8F	18	CSHH, M16x2 x 60mm, C8.8, FT	
23	1008895	8	Low Socket Cap Screw, M16x2 x 35	
24	307-10	10	Washer, Lock, Hi-Collar, 5/8	
25	1008903	2	Low Socket Cap Screw, M16x2 x 45	
26	811366	2	O-Ring, Hydraulic Motor to Torque Hub	
27	811362	2	Hydraulic Drive Motor, 2-Speed	
REF	59941203	A/R	Seal, Hydraulic Motor	Not Shown
REF	1016854	A/R	Drive Motor Hose Kit	Not Shown
28	100-M12-1.75-40-8.8F	4	CSHH, M12x1.75 x 40mm, C8.8, FT	
29	FS6801-10-12-NWO-FG	2	Elbow Adapter, 90°, -10 ORFS / -12 O-Ring	
30	6408-16-O	4	Plug Adapter, O-Ring, -16	
31	FS6400-12-12-O	4	Straight Adapter, -12 ORFS / -12 O-Ring	
32	FS6801-04-06-NWO-FG	2	Elbow Adapter, 90°, -4 ORFS / -6 O-Ring	
33	FS2603-04-04-04	1	Union Tee Adapter, -4 ORFS / -4 ORFS / -4 ORFS	

Illustrated Parts List

DRIVE ASSEMBLY - CONTINUOUS RUBBER (2 OF 2)

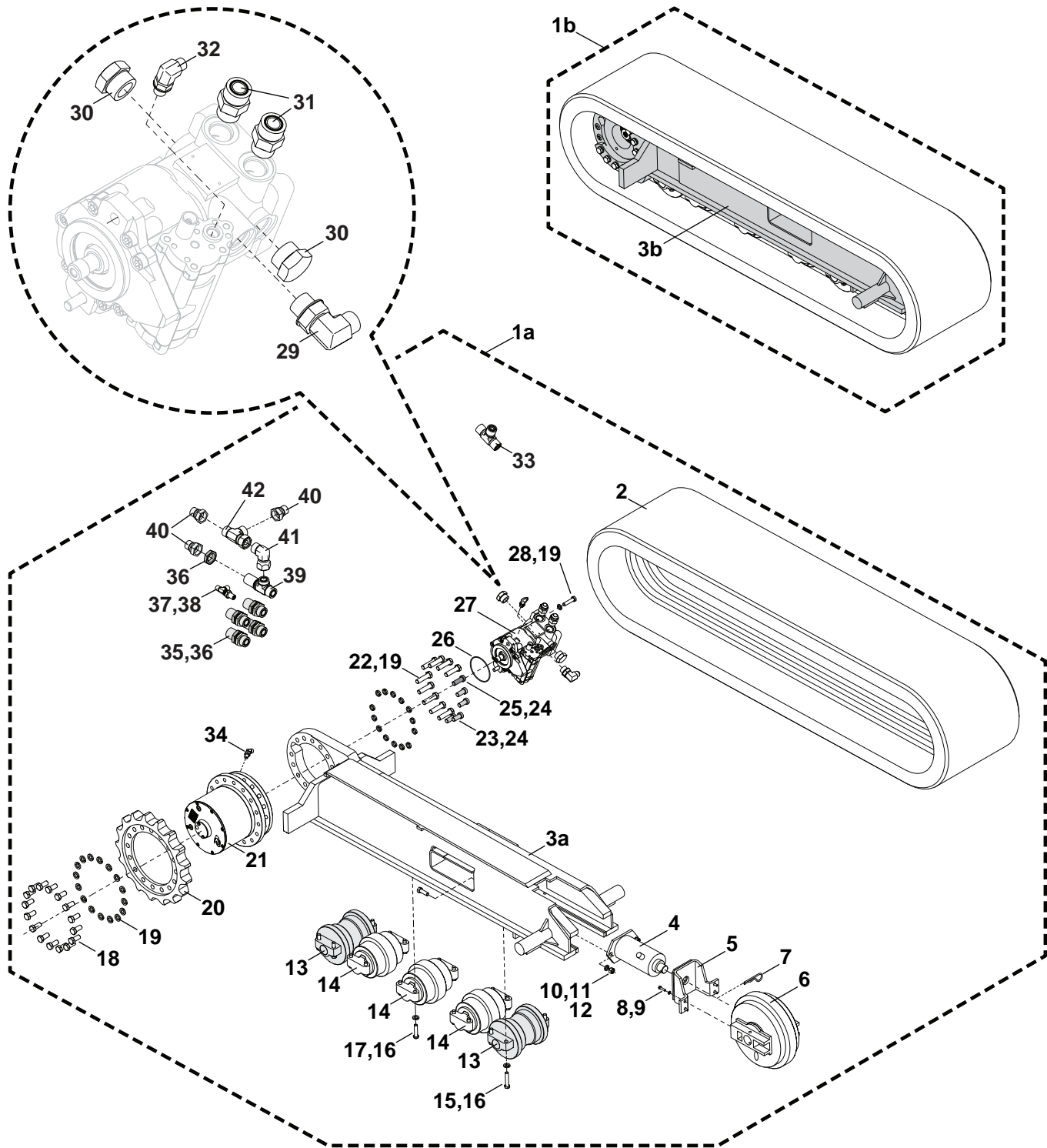


Figure 7-2. Drive Assembly - Continuous Rubber (2 of 2)

Drive Assembly - Continuous Rubber (2 of 2)

Item No	Part Number	Qty	Description	Remarks
34	FS6802-04-04-NWO-FG	2	Elbow Adapter, 45°, -4 ORFS/ -4 O-Ring	
35	FS2700-12-12	4	Bulkhead Union Adapter, -12 ORFS / -12 ORFS	
36	FS0306-12	5	Bulkhead Lock Nut, -12 ORFS	
37	FS2704-04-04-04-FG	1	Run Tee Bulkhead Adapter, -04 ORFS (x3)	
38	FS0306-04	1	Bulkhead Lock Nut, -4 ORFS	
39	FS2704-12-12-12-FG	1	Run Tee Bulkhead Adapter, -12 ORFS (x3)	
40	FS2406-12-10	3	Straight Reducer Adapter, -12 FFORX/-10 ORFS	
41	FS6500-12-12-FG	1	Swivel Elbow Adapter, 90°, -12 ORFS/-12 ORFS	
42	FS6602-12-12-12-FG	1	Swivel Run Tee Adapter, -12 ORFS (x3)	

Illustrated Parts List

PUSH BAR ASSEMBLY

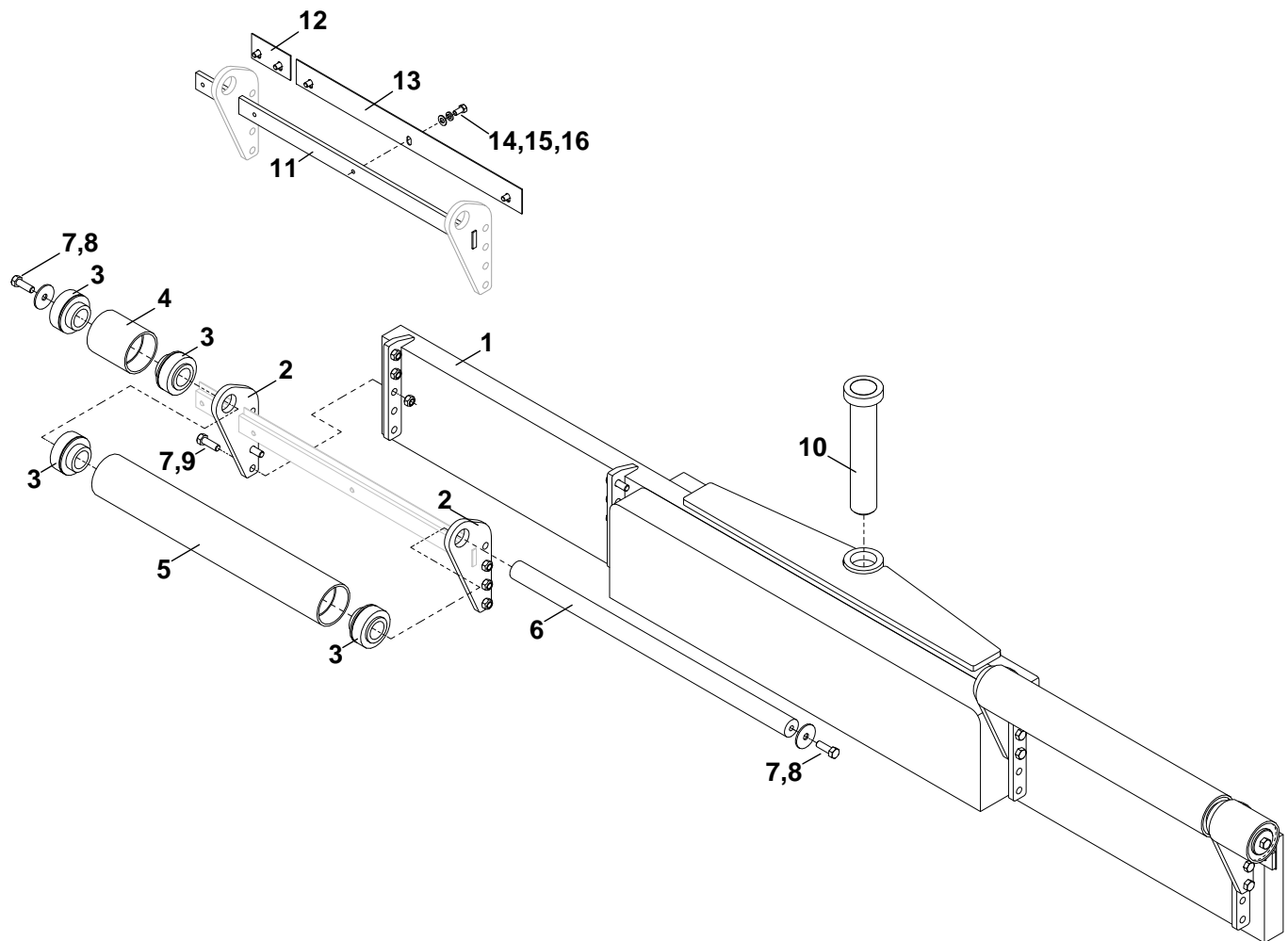


Figure 7-3. Push Bar Assembly

Push Bar Assembly

Item No	Part Number	Qty	Description	Remarks
GRP	1017211	1	Group - Adjustable Pushbar w/Counterweight	Includes Items 1 - 9
1	1016888	1	Adjustable Push Roller	
2	1016324	4	Adjustable Roller Mount Plate	
REF	980035	2	Pushbar Roller Extension Assembly	Includes Items 3,4
3	850130	8	Insert Bearing	
4	980036	2	Pushbar Roller Extension Pipe	
REF	980032	2	Pushbar Roller Assembly	Includes Items 3,5,6
5	980033-1	2	Push Roller Tube	
6	980034	2	Pushbar Roller Shaft	
7	100-8-13-24-5	16	CSHH, 1/2-13 x 1.50, GR5	
8	1017118	4	Washer, .50 ID x 2.00 OD	
9	204-8-13-5	12	Nut, Lock, Stover, 1/2-13, GR5	
10	810081SRV	1	Pushbar Swivel Pin	
11	1018312	2	Roller Scraper Bracket, Large	
12	1018311	2	Roller Scraper, Small	
13	1018310	2	Roller Scraper, Large	
14	100-6-16-12-5F	10	CSHH, 3/8-16 x .75, GR5	
15	302-6	10	Washer, Lock, 3/8	
16	300-6	10	Washer, Flat, SAE, 3/8	

Illustrated Parts List

CONVEYOR ASSEMBLY (1 OF 2)

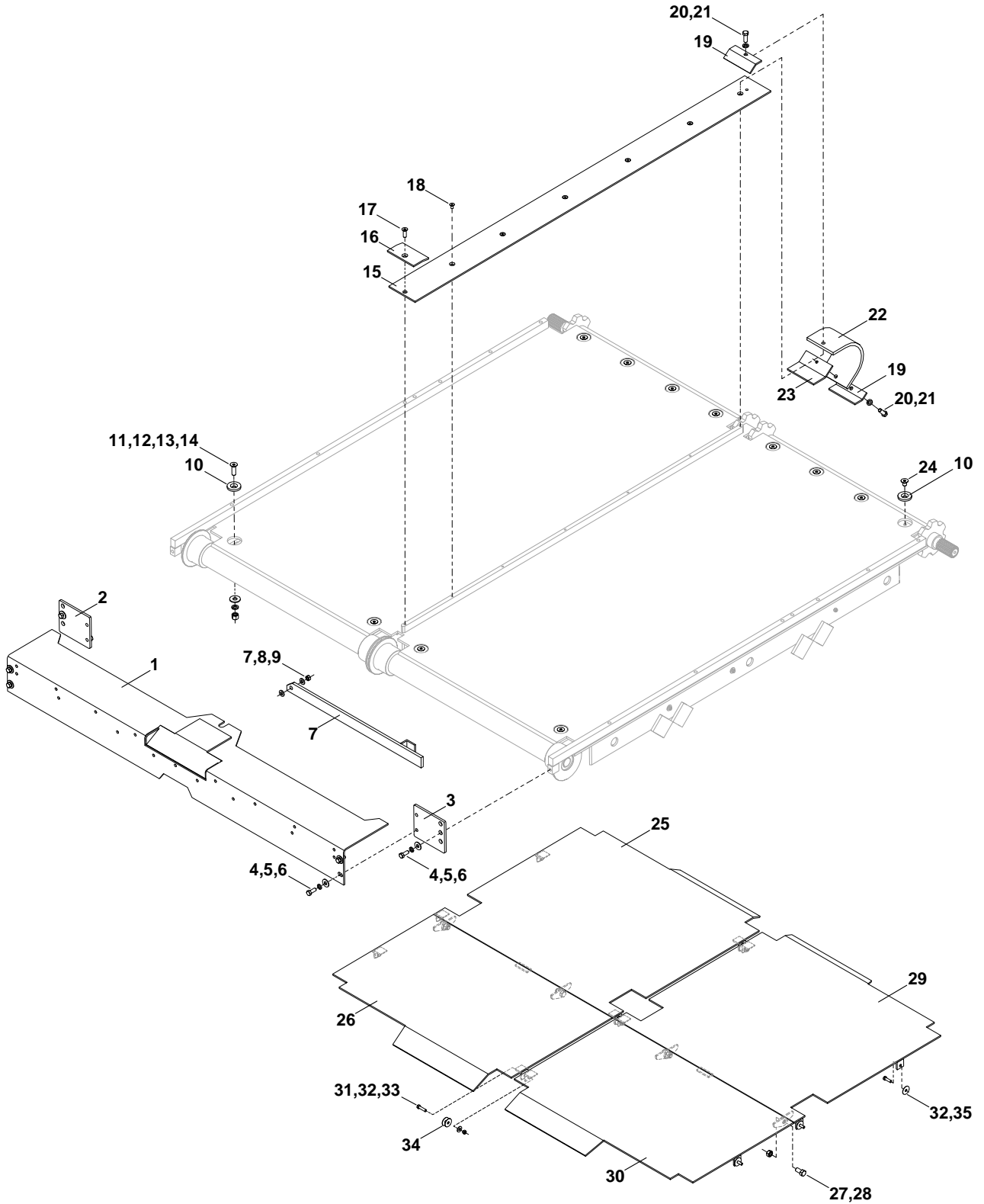


Figure 7-4. Conveyor Assembly (1 of 2)

Conveyor Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1017200		Group - Conveyor Assembly	
1	985669SRV	1	Front Lip Guard Assembly	
2	1013152SRV	1	Front Lip Weldment - Right	
3	1013153	1	Front Lip Weldment - Left	
4	100-8-13-20-5F	6	CSHH, 1/2-13 x 1.25, GR5, FT	
5	302-8	6	Washer, Lock, 1/2	
6	301-8	6	Washer, Flat, USS, 1/2	
7	1016760	1	Hopper Safety Rod Weldment	
8	204-8-13-5	1	Nut, Lock, Stover, 1/2-13, GR5	
9	300-8	2	Washer, Flat, SAE, 1/2	
10	855346	12	Conveyor Plate Washer	
11	105-10-11-32-F	4	CSFHS, 5/8-11 x 2.00, FT	
12	301-10	4	Washer, Flat, USS, 5/8	
13	302-10	4	Washer, Lock, 5/8	
14	216-10-11-5	4	Nut, Hex, Thick, 5/8-11, GR5	
15	851133SRV	1	Conveyor Center Cover	
16	985581	1	Front Lip Clamp	
17	105-8-13-24-F	1	CSFHS, 1/2-13 x 1.50, FT	
18	105-6-16-12-F	5	CSFHS, 3/8-16 x .75, FT	
19	802112SRV	1	Guard Clamp	
20	100-9-12-24-5F	2	CSHH, 9/16-12 x 1.50, GR5, FT	
21	302-9	2	Washer, Lock, 9/16	
22	840162	1	Conveyor Center Rear Rubber	
23	802114	1	Conveyor Center Weld Plate	
24	105-10-11-14-F	8	CSFHS, 5/8-11 x .875, FT	
REF	851127RSRV	1	Conveyor Bottom Pan - Right	Includes Items 25-28
25	855878	1	Conveyor Pan, Rear - Right	
26	855879	1	Conveyor Pan, Front - Right	
27	100-10-11-20-5F	4	CSHH, 5/8-11 x 1.25, GR5, FT	
28	204-10-11-5	4	Nut, Lock, Stover, 5/8-11, GR5	
REF	851127LSRV	1	Conveyor Bottom Pan - Left	Includes Items 27-30
29	855881	1	Conveyor Pan, Rear - Left	
30	855882	1	Conveyor Pan, Front - Left	
31	100-6-16-24-5F	3	CSHH, 3/8-16 x 1.50, GR5, FT	
32	301-6	9	Washer, Flat, USS, 3/8	
33	204-6-16-5	3	Nut, Lock, Stover, 3/8-16, GR5	
34	981511	18	Fender Washer, 3/8	
35	100-6-16-20-5F	12	CSHH, 3/8-16 x 1.25, GR5, FT	

Illustrated Parts List

CONVEYOR ASSEMBLY (2 OF 2)

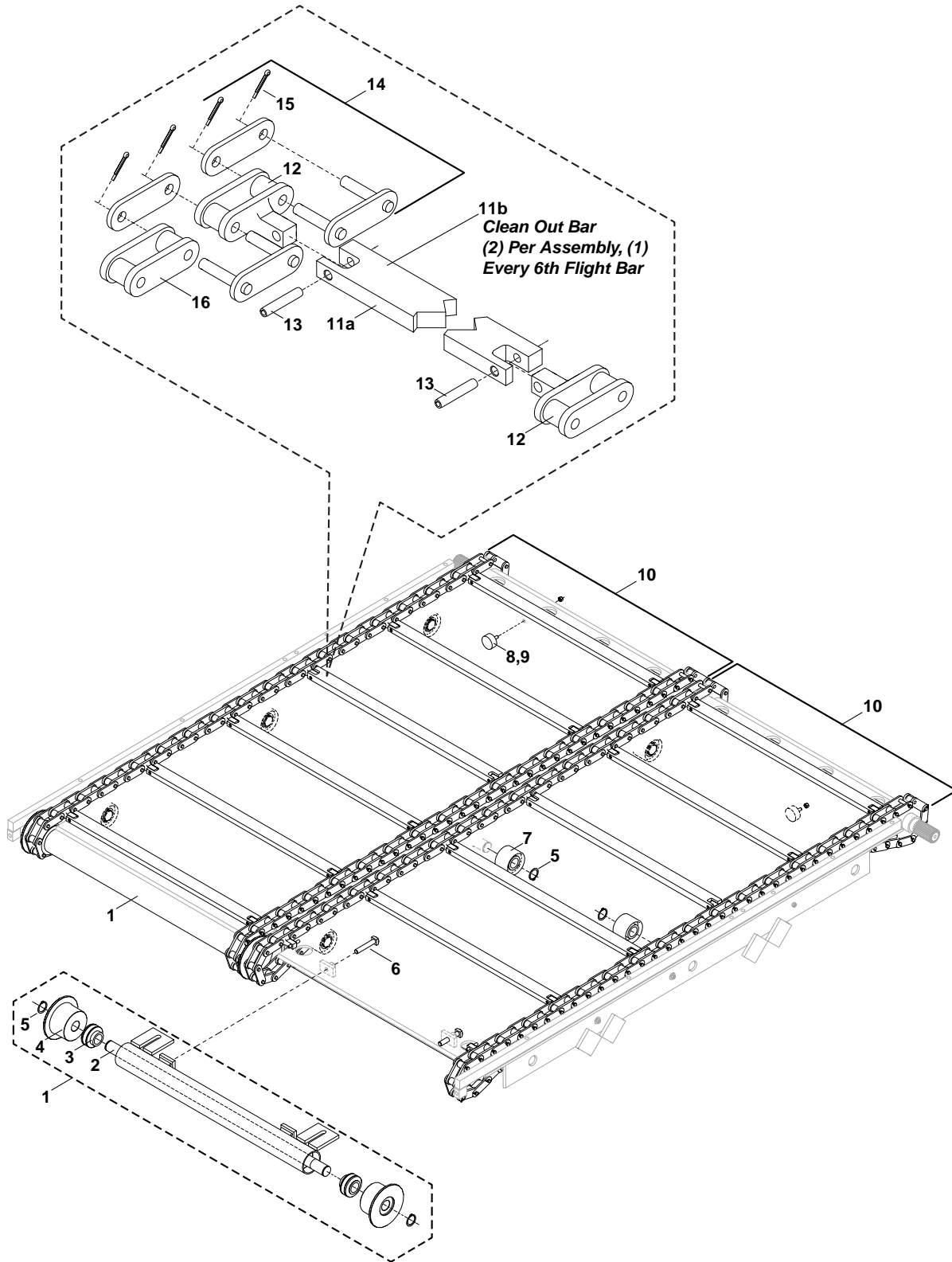


Figure 7-5. Conveyor Assembly (2 of 2)

Conveyor Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1017200		Group - Conveyor Assembly	
1	851123	2	Conveyor Front Guide Tube Assembly	Includes Items 2-5
2	851124	2	Conveyor Idler Shaft	
3	520060	4	Bearing Insert, Setscrew Locking	
4	850120	4	Conveyor Front Guide Wheel	
5	850040	16	Conveyor Drive Shaft Snap Ring	
6	124-10-11-56F	4	CSSQH, 5/8-11 x 3.50, FT	
7	850162	12	Conveyor Chain Idler Roller	
8	410070	2	Conveyor Bumper	
9	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	
10	1016941SRV	2	Conveyor Chain Assembly w/Clean Out Bars	
11a	851118A	20	Conveyor Flight Chain Bar	
11b	1014959	4	Conveyor Flight Clean Out Bar	(2) Per Assembly
12	850080B	A/R	Conveyor Chain Link w/Tab	
13	400-6-32	A/R	Roll Pin, 3/8 x 2.00	
14	850070A	A/R	Conveyor Chain Master Link	
15	850100A	A/R	Conveyor Chain T-Pin	
16	850080	A/R	Conveyor Chain Block Link	
REF	850215A	A/R	Conveyor Chain Offset Link	Not Shown
REF	851627SRV	A/R	Conveyor Floor Plate	Not Shown

Illustrated Parts List

CONVEYOR DRIVE & PADDLE ASSEMBLY (1 OF 2)

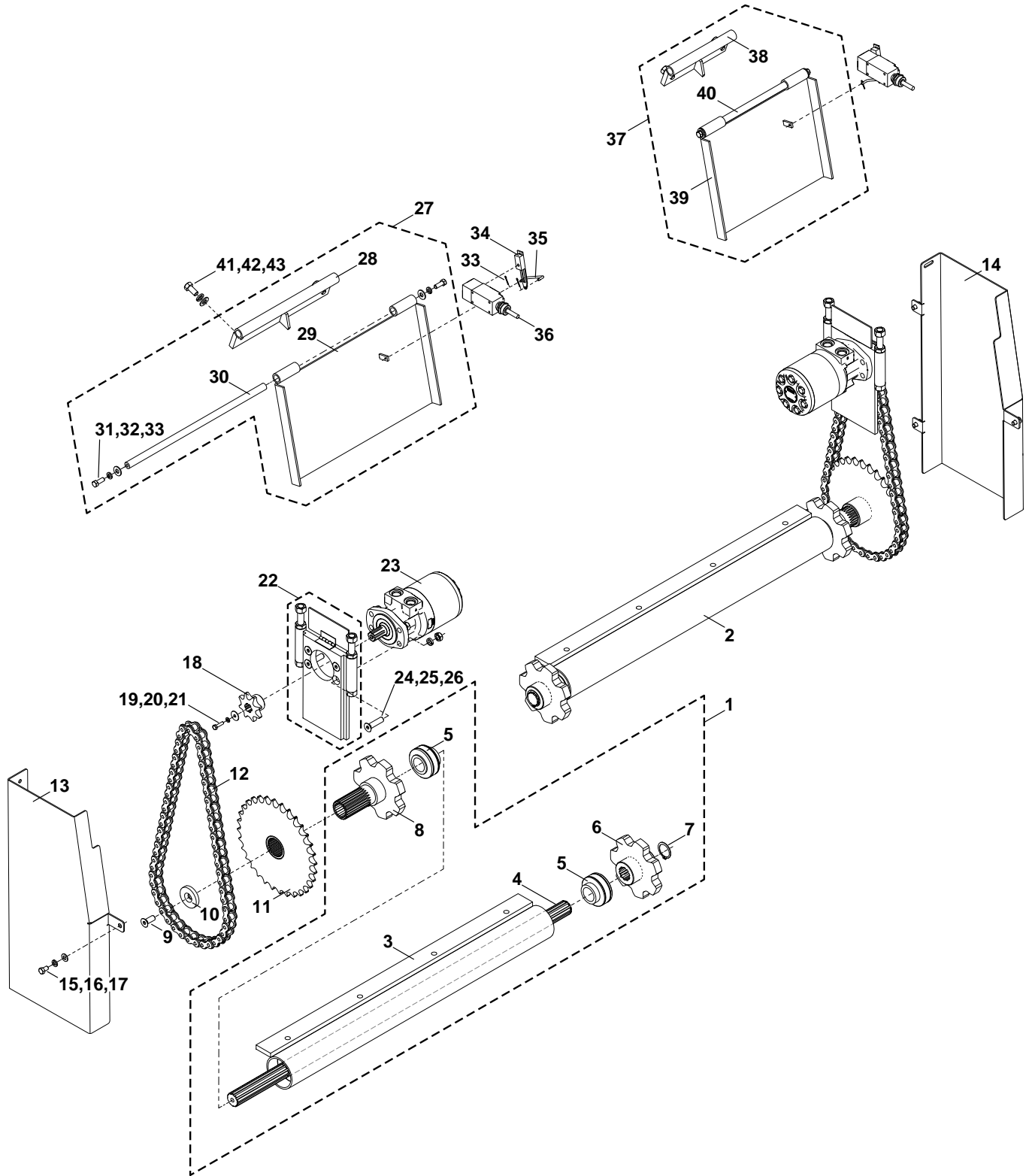


Figure 7-6. Conveyor Drive & Paddle Assembly (1 of 2)

Conveyor Drive & Paddle Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1017200		Group - Conveyor Assembly	
1	987712	1	Rear Tube Drive Assembly - Left	Includes Items 3-8
2	987713	1	Rear Tube Drive Assembly - Right	Includes Items 3-8
3	851651	2	Conveyor Tube Assembly	Includes Item 5
4	851116	2	Conveyor Drive Shaft	
5	520060	4	Bearing Insert, Locking Set Screw	
6	850030SRV	2	Inner Conveyor Drive Sprocket	
7	850040	2	Conveyor Drive Shaft Snap Ring	
8	851474SRV	2	Outer Conveyor Drive Sprocket	
9	105-8-13-16-F	2	CSFHS, 1/2-13 x 1.00, FT	
10	851112	2	Conveyor Drive Sprocket Washer	
11	1019092	2	Conveyor Drive Sprocket	
12	1019094	2	Roller Chain, 80 x 56 Pitch	
13	1019047SRV	1	Conveyor Chain Guard Weldment - Left	
14	1019048SRV	1	Conveyor Chain Guard Weldment - Right	
15	100-6-16-10-5F	6	CSHH, 3/8-16 x .625, GR5, FT	
16	302-6	10	Washer, Lock, 3/8	
17	300-6	6	Washer, Flat, SAE, 3/8	
18	851120	2	Conveyor Drive Motor Sprocket	
19	100-4-20-16-5F	2	CSHH, 1/4-20 x 1.00, GR5, FT	
20	302-4	2	Washer, Lock, 1/4	
21	308-4-16	2	Washer, Flat, Fender, 1/4 x 1.00	
22	1014196	2	Conveyor Drive Tension Adjuster Weldment	
23	260130	2	Hydraulic Motor, 22.0 CIR	
24	FS6400-08-10-O	4	Straight Adapter, -8 ORFS/-10 O-Ring	
25	105-8-13-32-F	8	CSFHS, 1/2-13 x 2.00, GR5, FT	
26	307-8	8	Washer, Lock, Hi-Collar, 1/2	
27	202-8-13-5	8	Nut,Hex, Jam, 1/2-13, GR5	
28	1016523SRV	1	Conveyor Cutoff Assembly - Left	Includes 16,29-33
29	1016522	1	Conveyor Cutoff Hinge Weldment - Left	
30	1016521	1	Conveyor Cutoff Flap Weldment - Left	
31	1015297	1	Conveyor Flap Hinge Pin - Left	
32	100-6-16-16-5F	4	CSHH, 3/8-16 x 1.00, GR5, FT	
33	301-6	4	Washer, Flat, USS, 3/8	
34	13A-0212ZI	4	Cotter Pin, 1/16 x 3/4 Plated	
35	900060-1SRV	2	Conveyor Switch Arm	
36	900075	2	Conveyor Switch Linkage, Rod	

Illustrated Parts List

CONVEYOR DRIVE & PADDLE ASSEMBLY (2 OF 2)

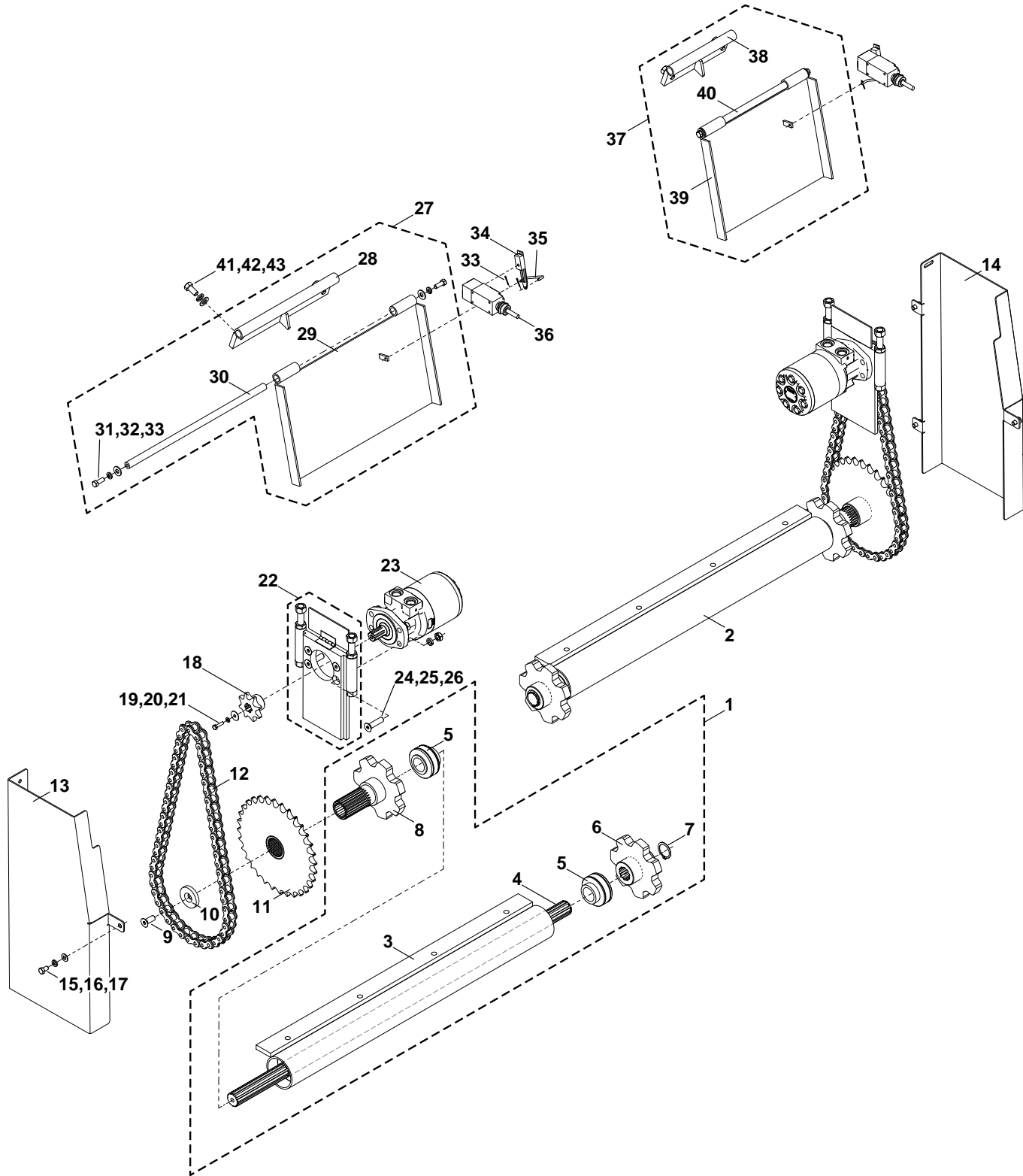


Figure 7-6. Conveyor Drive & Paddle Assembly (2 of 2)

Conveyor Drive & Paddle Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
37	900050SRV	2	Conveyor Automatic Micro Switch	
38	1016524SRV	1	Conveyor Cutoff Assembly - Right	Includes 16,32-33,39-41
39	1016525	1	Conveyor Cutoff Hinge Weldment - Right	
40	1016526	1	Conveyor Cutoff Flap Weldment - Right	
41	1015298	1	Conveyor Flap Hinge Pin - Right	
42	100-8-13-16-5F	4	CSHH, 1/2-13 x 1.00, GR5, FT	
43	302-8	4	Washer, Lock, 1/2	
44	300-8	4	Washer, Flat, SAE, 1/2	

Illustrated Parts List

HOPPER WINGS

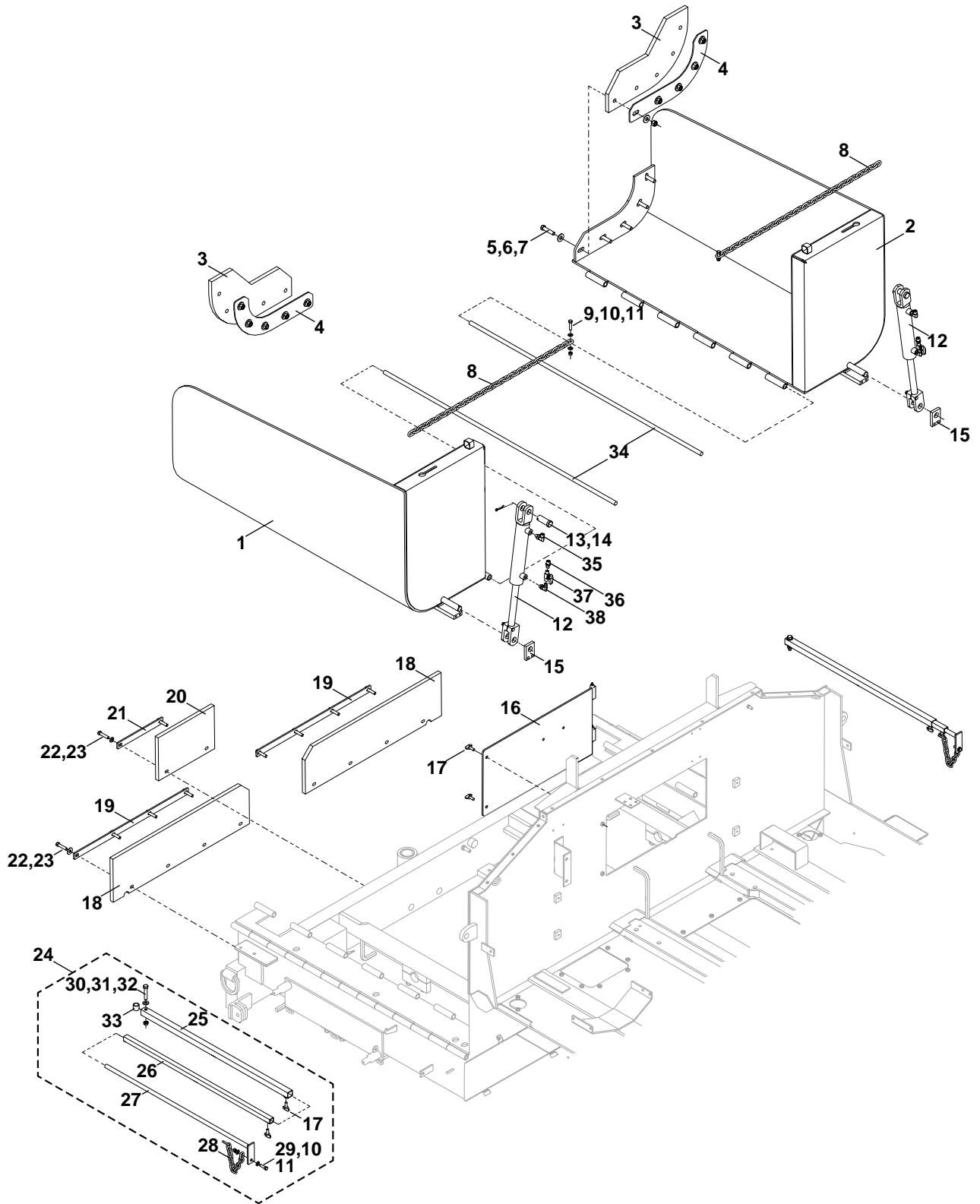


Figure 7-7. Hopper Wings

Hopper Wings

Item No	Part Number	Qty	Description	Remarks
1	980702SRV	1	Hopper Wing Weldment - Left	
2	980703SRV	1	Hopper Wing Weldment - Right	
3	980728	2	Sidewing Rubber	
4	980727	2	Hopper Wing Rubber Plate	
5	100-9-12-44-5	10	CSHH, 9/16-12 x 2.50, GR5	
6	301-9	10	Washer, Flat, USS, 9/16	
7	200-9-12-5	10	Nut, Hex, 9/16-12, GR5	
8	851143	2	Proof Coil Chain, .312 x 36 Link	
9	100-6-16-26-5F	2	CSHH, 3/8-16 x 1.625, GR5, FT	
10	300-6	2	Washer, Flat, SAE, 3/8	
11	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	
12	610110	2	Hydraulic Cylinder, 2.00 x 8.22 x 1.00	
13	1011476	2	Clevis Pin, 1.00 x 2.50	
14	80336	2	Cotter Pin, .188 x 1.50	
15	855426	2	Hopper Wing Cylinder Bracket	
16	1014584	1	Access Door	
17	920070	8	Thumb Screw, 3/8-16 x 1.00	
18	985057	2	Front Lip Rubber - Outer	
19	985062	2	Side Strip Flashing	
20	985058	1	Front Lip Rubber - Center	
21	985063	1	Center Flashing	
22	100-7-20-32-5F	10	CSHH, 7/16-20 x 2.00, GR5, FT	
23	300-7	10	Washer, Flat, SAE, 7/16	
24	853887SRV	2	Guide Bar Assembly	
25	920041	2	Guide Bar Outer Tube	
26	920051	2	Guide Bar Inner Tube	
27	920061	2	Guide Bar	
28	920061-1	2	Proof Coil Chain, .250 x 12 Link	
29	100-6-16-20-5	2	CSHH, 3/8-16 x 1.25, GR5	
30	100-8-13-40-5	2	CSHH, 1/2-13 x 2.50, GR5	
31	300-8	2	Washer, Flat, SAE, 1/2	
32	204-8-13-5	2	Nut, Hex, Jam, 1/2-13, GR5	
33	854032	2	Pipe, .75 x 1.00, SCH 80	
34	854084	2	Hopper Wing Hinge Pin	
35	FS6801-06-06-NWO-FG	2	Elbow Adapter, 90°, -6 ORFS/-6 O-Ring	
36	FS2404-06-04	2	Connector Adapter, -6 ORFS/-4 NPTF	
37	20926564	2	Ball Valve, 1/4"	
38	6806-6-4 NWO	2	Elbow Adapter, 90°, -6 ORFS/-4 O-Ring	

Illustrated Parts List

REAR AUGER ASSEMBLY (1 OF 2)

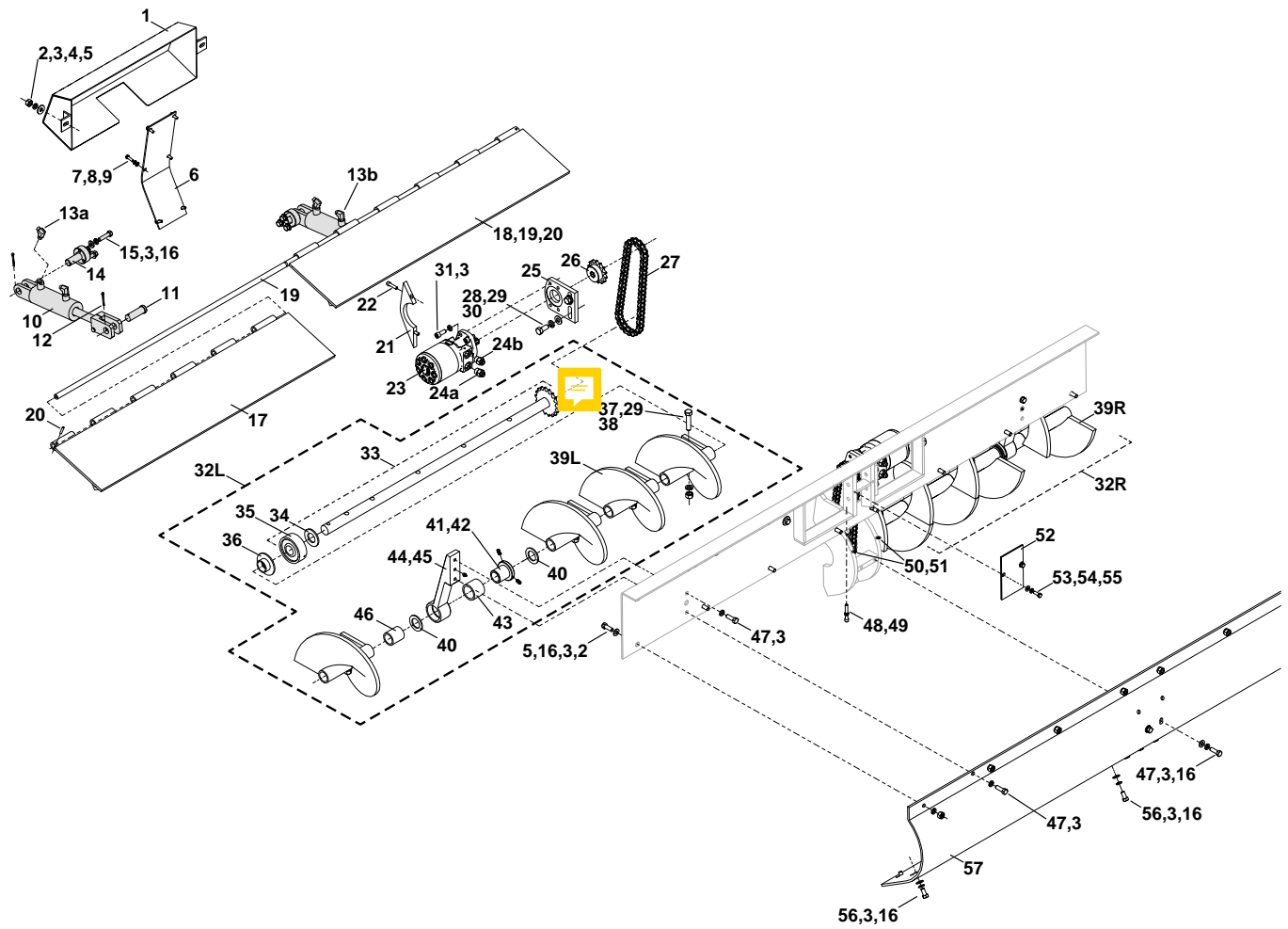


Figure 7-8. Rear Auger Assembly (1 of 2)

Rear Auger Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
1	981685	1	Auger Motor Cover Assembly	
2	201-8-13-5	10	Nut, Hex, Heavy, 1/2-13, GR5	
3	302-8	A/R	Washer, Lock, 1/2	
4	301-8	2	Washer, Flat, USS, 1/2	
5	100-8-13-22-5	10	CSHH, 1/2-13 x 1.375, GR5	
6	981695SRV	1	Auger Support Cover	
7	100-5-18-16-5	6	CSHH, 5/16-18 x 1.00, GR5	
8	302-5	6	Washer, Lock, 5/16	
9	300-5	6	Washer, Flat, SAE, 5/16	
REF	1017635	2	Cut-Off Cylinder Assembly	Includes Items 10-13
10	910170	2	Hydraulic Cylinder, 2.50 x 4.00 x 1.25 Rod	Includes Items 11,12
11	240030	2	Clevis Pin, 1.00 x 3.25 w/1.50 Head	
12	80338	4	Cotter Pin, .188 x 2.00	
13a	FS2501-06-06-FG	2	Elbow Adapter, 90°, -6 ORFS/-6 NPTF	
13b	FS2503-06-06-FG	2	Elbow Adapter, 45°, -6 ORFS/-6 NPTF	
14	1006988	2	Cut-Off Cylinder Mounting Shaft	
15	100-8-13-32-5	6	CSHH, 1/2-13 x 2.00, GR5	
16	300-8	A/R	Washer, Flat, SAE, 1/2	
17	1016517	1	Cut-Off Weldment - Left	
18	1016518	1	Cut-Off Weldment - Right	
19	1007064	2	Cut-Off Hinge Bar	
20	400-4-20	2	Roll Pin, 1/4 x 1.25	
21	1007269	2	Auger Clamp, 12"	
22	102-6-16-24-F	4	CSSH, 3/8-16 x 1.50, FT	
REF	1017640	2	Auger Motor Assembly	Includes 23,24
23	260130	2	Hydraulic Motor, 22.0 CIR	
24a	FS6400-08-10-O	2	Straight Adapter, -8 JIC / -10 O-Ring	
24b	1019936	2	Check Valve, 50 PSI, -8 ORFS/-10 O-Ring	
25	981696	2	Motor Mount	
26	860030	2	Sprocket, 60B 14 x 1-6 Spline	
27	985815	2	Roller Chain, 60H x 51 Pitch	
28	100-10-11-22-5F	4	CSHH, 5/8-11 x 1.375, GR5, FT	
29	302-10	12	Washer, Lock, 5/8	
30	300-10	4	Washer, Flat, SAE, 5/8	
31	102-8-13-20-F	8	CSSH, 1/2-13 x 1.25, FT	
32L	1019051	1	Auger Assembly w/Mount, 12" - Left	Includes Items 29,33-38,39L,40-46

Illustrated Parts List

REAR AUGER ASSEMBLY (2 OF 2)

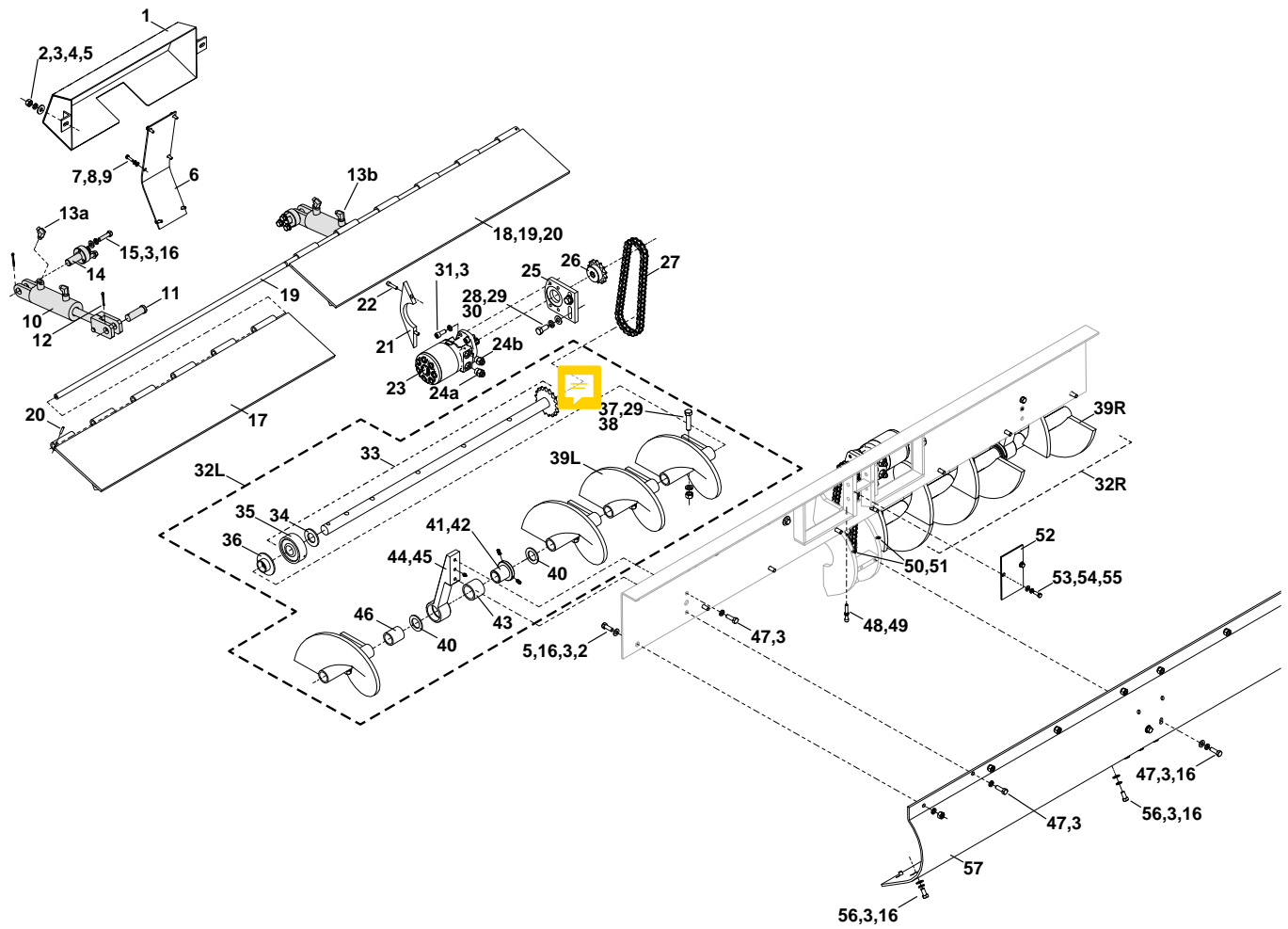


Figure 7-8. Rear Auger Assembly (2 of 2)

Rear Auger Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
32R	1019052	1	Auger Assembly w/Mount, 12" - Right	Includes Items 29,33-38,39R,40-46
33	1007270	2	Shaft w/Sprocket, 12" Auger	Includes Items 34,35
34	1007323	2	Auger Bearing Spacer Washer	
35	1007267	2	Auger Bearing	
36	1007306	2	Auger Shaft Spacer Assembly	
37	100-10-11-44-5	8	CSHH, 5/8-11 x 1.75, GR5	
38	200-10-11-5	8	Nut, Hex, 5/8-11, GR5	
39L	981700L	4	Auger Flight, 12" - Left	
39R	981700R	4	Auger Flight, 12" - Right	
40	310-24	4	Washer, Hardened, SAE, 1-1/2"	
REF	1019053	2	Auger End Mount Assembly - Long	Includes Items 41-45
41	851645	2	Auger Shaft Collar	
42	1017379	4	Set Screw, 3/8-16 x .75, Knurl Cup Point	
43	810070	2	Bushing, 2.00 ID x 2.50 OD x 2.50	
44	1019053-01	2	Auger End Mount - Long	
45	29A-02	2	Grease Fitting, 1/8 NPT Straight	
46	1019051-01	2	Auger Spacer Tube	
47	100-8-13-24-5	4	CSHH, 1/2-13 x 1.50, GR5	
48	102-6-16-40	2	CSSH, 3/8-16 x 2.50	
49	202-6-16-5	2	Nut, Hex, Jam, 3/8-16, GR5	
50	1008949	2	Grease Fitting, 1/4-28, Long	
51	400-3-36	2	Roll Pin, 3/16 x 2.25	
52	981688SRV	1	Chain Cover	
53	100-6-16-16-5F	2	CSHH, 3/8-16 x 1.00, GR5, FT	
54	302-6	2	Washer, Lock, 3/8	
55	300-6	2	Washer, Flat, SAE, 3/8	
56	100-8-20-16-5F	8	CSHH, 1/2-20 x 1.00, GR5, FT	
57	1016721	1	Auger Back Wear Plate, 12"	

Illustrated Parts List

FUEL TANK ASSEMBLY

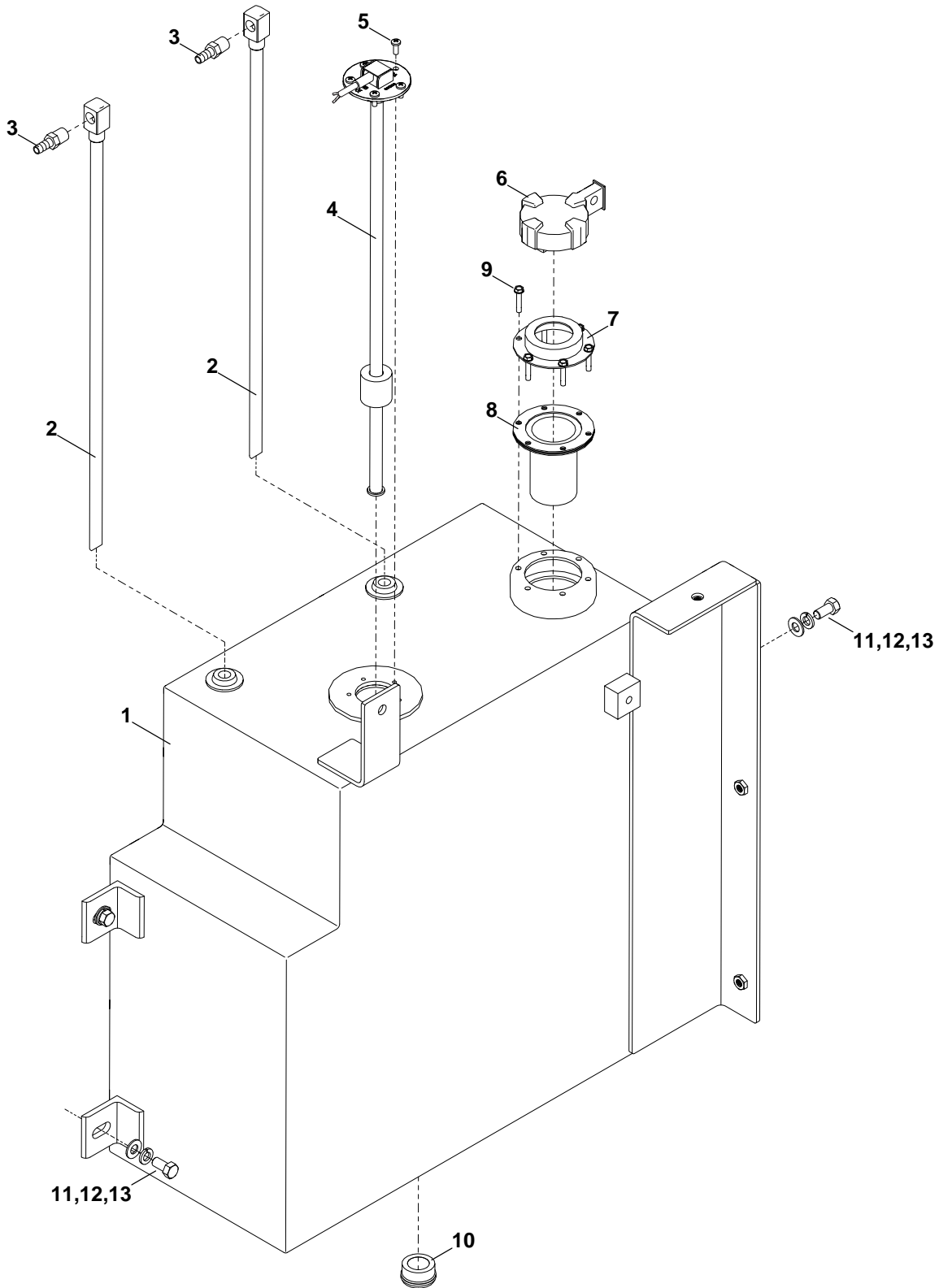


Figure 7-9. Fuel Tank Assembly

Fuel Tank Assembly

Item No	Part Number	Qty	Description	Remarks
REF	1016269	1	Assembly, Fuel Tank	
1	1015904	1	Weldment, Fuel Tank	
2	1014538-20.5	2	Tube, Fuel, Pick-up, 20.5"	
3	33491	2	Fitting, Straight, 04MP-05HB, Crimped	
4	1016262	1	Sending Unit, Fuel, 20"	
5	122-#10-24-8F	5	PHMS, Cross, #10-24 x .5, FT	
6	140030FL	1	Cap, Fuel Tank, Lockable	
7	140030FN	1	Filler Neck, Hydraulic Oil/Fuel Cap	
8	140030GK	1	Strainer & Gasket Kit	
9	116-#10-16	6	Self-Drilling Screw, Hex Washer Head, #10 x 1.00	
10	1011971	1	Magnetic Drain Plug, -16 SAE Orb	
11	100-6-24-12-8F	3	CSHH, 3/8-24 x .75, GR8, FT	
12	302-6	3	Washer, Lock, 3/8	
13	300-6	3	Washer, Flat, SAE, 3/8	

Illustrated Parts List

UPPER HYDRAULIC TANK ASSEMBLY - ELECTRIC SCREED HEAT

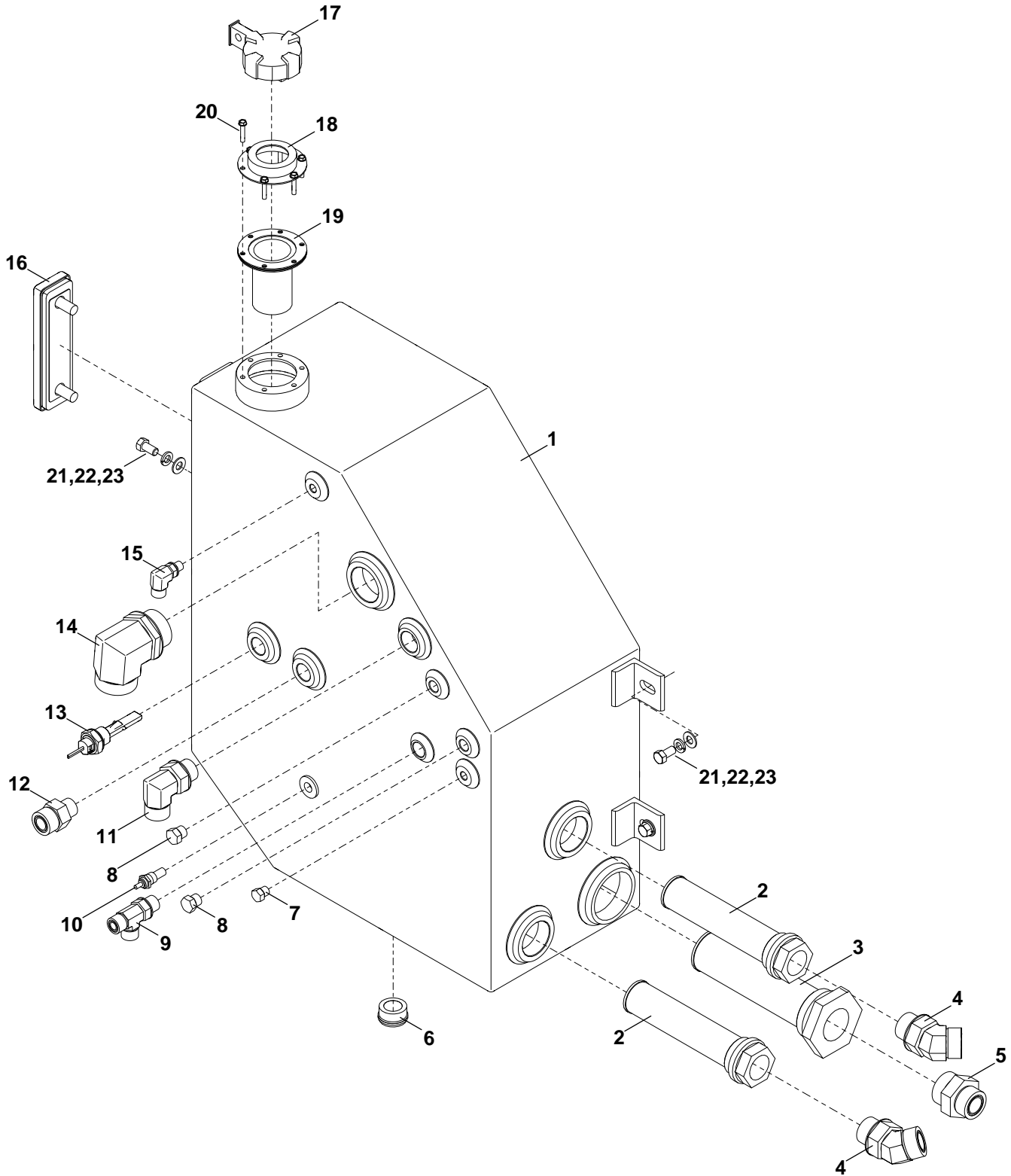


Figure 7-10. Upper Hydraulic Tank Assembly - Electric Screed Heat

Upper Hydraulic Tank Assembly - Electric Screed Heat

Item No	Part Number	Qty	Description	Remarks
REF	1018715	1	Assembly, Upper Hydraulic Tank	
1	1018716	1	Weldment, Upper Hydraulic Tank	
2	1011817	2	Strainer, Hydraulic Suction, -24 SAE O-Ring	
3	1014037	1	Strainer, Suction, 100 Mesh, O-Ring Seal	
4	FS6802-16-16-NWO-FG	2	Adapter, Elbow, 45°, -16 ORFS / -16 O-Ring	
5	FS6400-16-20-O	1	Adapter, Straight, -16 ORFS / -20 O-Ring	
6	1011971	1	Plug, Magnetic Drain, -16 SAE Orb	
7	6408-4-O	1	Adapter, Plug, O-Ring, -4	
8	6408-6-O	2	Adapter, Plug, O-Ring, -6	
9	FS6804-08-08-08-NWO-FG	1	Adapter, Run Tee, -8 ORFS / -8 O-Ring / -8 ORFS	
10	1010402	1	Sender, Temperature, Hydraulic Oil, 100-250°F	
11	FS6801-12-12-NWO-FG	1	Adapter, Elbow, 90°, -12 ORFS / -12 O-Ring	
12	FS6400-10-12-O	1	Adapter, Straight, -10 ORFS / -12 O-Ring	
13	1014643	1	Sensor, Level, Hydraulic	
14	FS6801-24-24-NWO-FG	1	Adapter, Elbow, 90°, -24 ORFS / -24 O-Ring	
15	FS6801-06-04-NWO-FG	1	Adapter, Elbow, 90°, -6 ORFS / -4 O-Ring	
16	500070	1	Gauge, Sight Level/Temperature, Hydraulic Oil	
17	140030HL	1	Cap, Hydraulic, Lockable	
18	140030FN	1	Filler Neck, Hydraulic Oil/Fuel Cap	
19	140030GK	1	Strainer & Gasket Kit	
20	116-#10-16	6	Screw, Self Drilling, HWH, #10 x 1.00	
21	100-6-24-12-8F	3	CSHH, 3/8-24 x .75, GR8, FT	
22	302-6	3	Washer, Lock, 3/8	
23	300-6	3	Washer, Flat, SAE, 3/8	

Illustrated Parts List

UPPER HYDRAULIC TANK ASSEMBLY - PROPANE SCREED HEAT

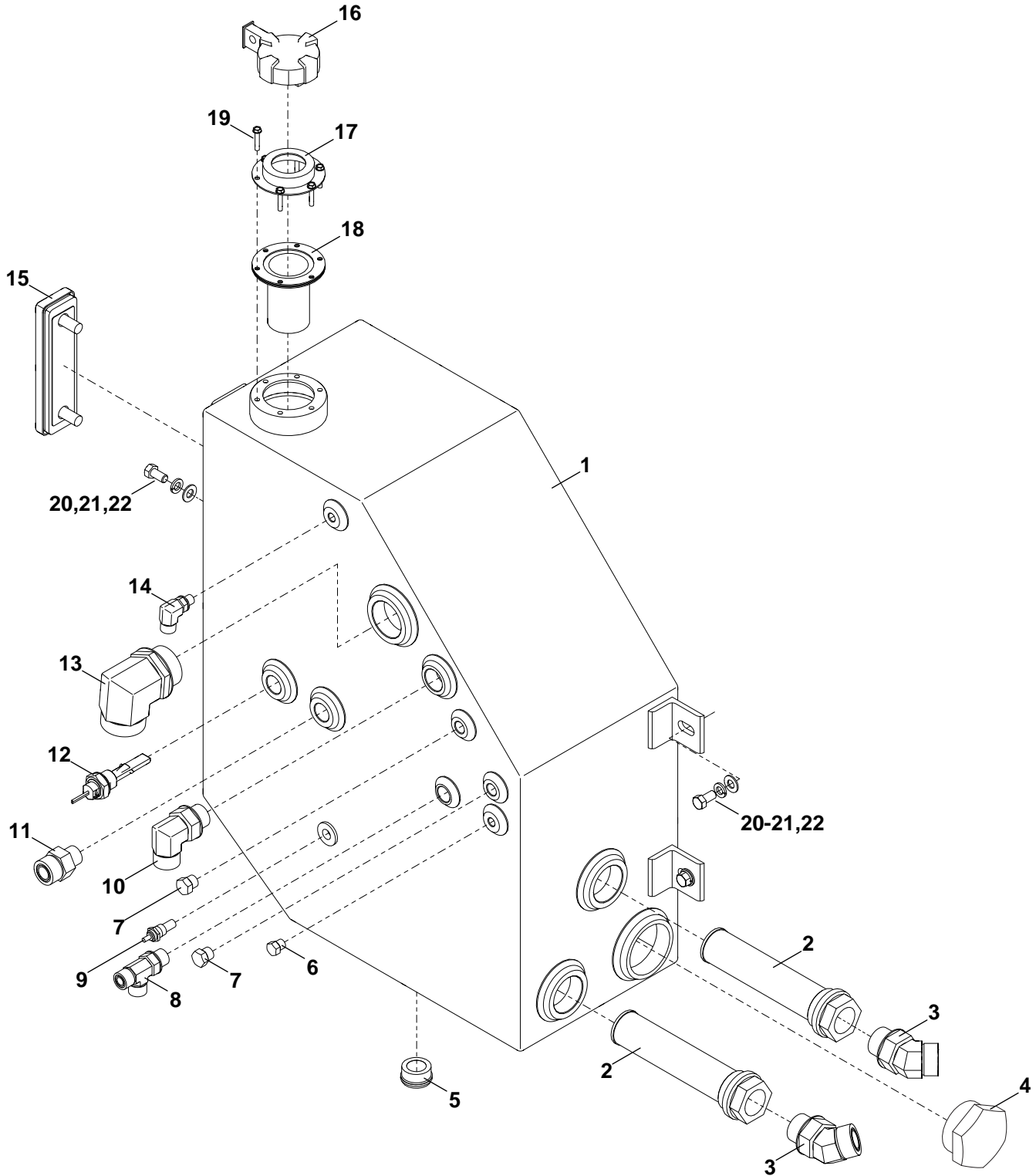


Figure 7-11. Upper Hydraulic Tank Assembly - Propane Screed Heat

Upper Hydraulic Tank Assembly - Propane Scream Heat

Item No	Part Number	Qty	Description	Remarks
REF	1019116	1	Assembly, Upper Hydraulic Tank - Propane Heat	
1	1018716	1	Weldment, Upper Hydraulic Tank	
2	1011817	2	Strainer, Hydraulic Suction, -24 SAE O-Ring	
3	FS6802-16-16-NWO-FG	2	Adapter, Elbow, 45°, -16 ORFS / -16 O-Ring	
4	6408-32-O	1	Adapter, Plug, O-Ring, -32	
5	1011971	1	Plug, Magnetic Drain, -16 SAE Orb	
6	6408-4-O	1	Adapter, Plug, O-Ring, -4	
7	6408-6-O	2	Adapter, Plug, O-Ring, -6	
8	FS6804-08-08-08-NWO-FG	1	Adapter, Run Tee, -8 ORFS / -8 O-Ring / -8 ORFS	
9	1010402	1	Sender, Temperature, Hydraulic Oil, 100-250°F	
10	FS6801-12-12-NWO-FG	1	Adapter, Elbow, 90°, -12 ORFS / -12 O-Ring	
11	6408-10-O	1	Plug Adapter, O-Ring, -10	
12	1014643	1	Sensor, Level, Hydraulic	
13	FS6801-24-24-NWO-FG	1	Adapter, Elbow, 90°, -24 ORFS / -24 O-Ring	
14	FS6801-06-04-NWO-FG	1	Adapter, Elbow, 90°, -6 ORFS / -4 O-Ring	
15	500070	1	Gauge, Sight Level/Temperature, Hydraulic Oil	
16	140030HL	1	Cap, Hydraulic, Lockable	
17	140030FN	1	Filler Neck, Hydraulic Oil/Fuel Cap	
18	140030GK	1	Strainer & Gasket Kit	
19	116-#10-16	6	Screw, Self Drilling, HWH, #10 x 1.00	
20	100-6-24-12-8F	3	CSHH, 3/8-24 x .75, GR8, FT	
21	302-6	3	Washer, Lock, 3/8	
22	300-6	3	Washer, Flat, SAE, 3/8	

Illustrated Parts List

LOWER HYDRAULIC TANK ASSEMBLY

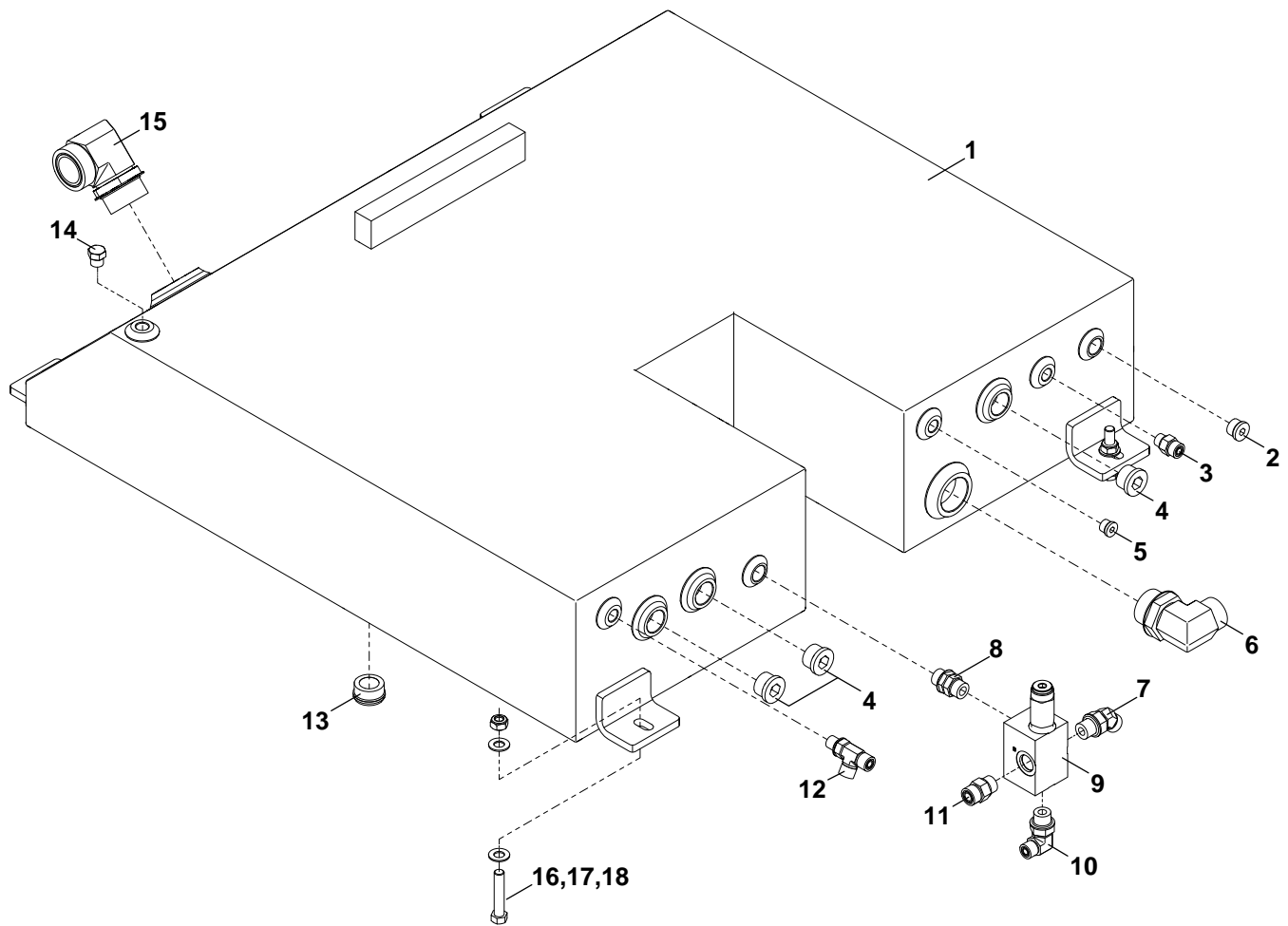


Figure 7-12. Lower Hydraulic Tank Assembly

Lower Hydraulic Tank Assembly

Item No	Part Number	Qty	Description	Remarks
REF	1020047	1	Assembly, Hydraulic Tank, Lower	
1	1016275	1	Weldment, Hydraulic Tank, Lower	
2	6409-8-O	1	Adapter, Plug, Hex Socket, O-Ring, -8	
3	FS6400-06-06-O	2	Adapter, Straight, -6 ORFS / -6 O-Ring	
4	6409-12-O	3	Adapter, Plug, Hex Socket, O-Ring, -12	
5	6409-6-O	1	Adapter, Plug, Hex Socket, O-Ring, -6	
6	FS6801-16-20-NWO-FG	1	Adapter, Elbow, 90°, -16 ORFS / -20 O-Ring	
7	851544	1	Manifold, Track Tensioner, N/S	
8	6407-8-8 NWO	1	Adapter, Union, -8 O-Ring / -8 O-Ring	
9	FS6802-08-08-NWO-FG	1	Adapter, Elbow, 45°, -8 ORFS / -8 O-Ring	
10	FS6801-06-08-NWO-FG	1	Adapter, Elbow, 90°, -6 ORFS / -8 O-Ring	
11	FS6400-08-08-O	1	Adapter, Straight, -8 ORFS / -8 O-Ring	
12	FS6804-06-06-06-NWO-FG	1	Run Tee Adapter, -6 ORFS/-6 O-Ring/-6 ORFS	
13	1011971	1	Plug, Magnetic, Drain, -16 SAE Orb	
14	6408-6-O	1	Adapter, Plug, O-Ring, -6	
15	FS6801-24-24-NWO-FG	1	Adapter, Elbow, 90°, -24 ORFS / -24 O-Ring	
16	100-7-14-36-5	4	CSHH, 7-16-14 x 2.25, GR5	
17	300-7	8	Washer, Flat, SAE, 7/16	
18	205-4-15-5	4	Nut, Lock, Nylon, 7/16-14, GR5	

Illustrated Parts List

HYDRAULIC TEST PORTS

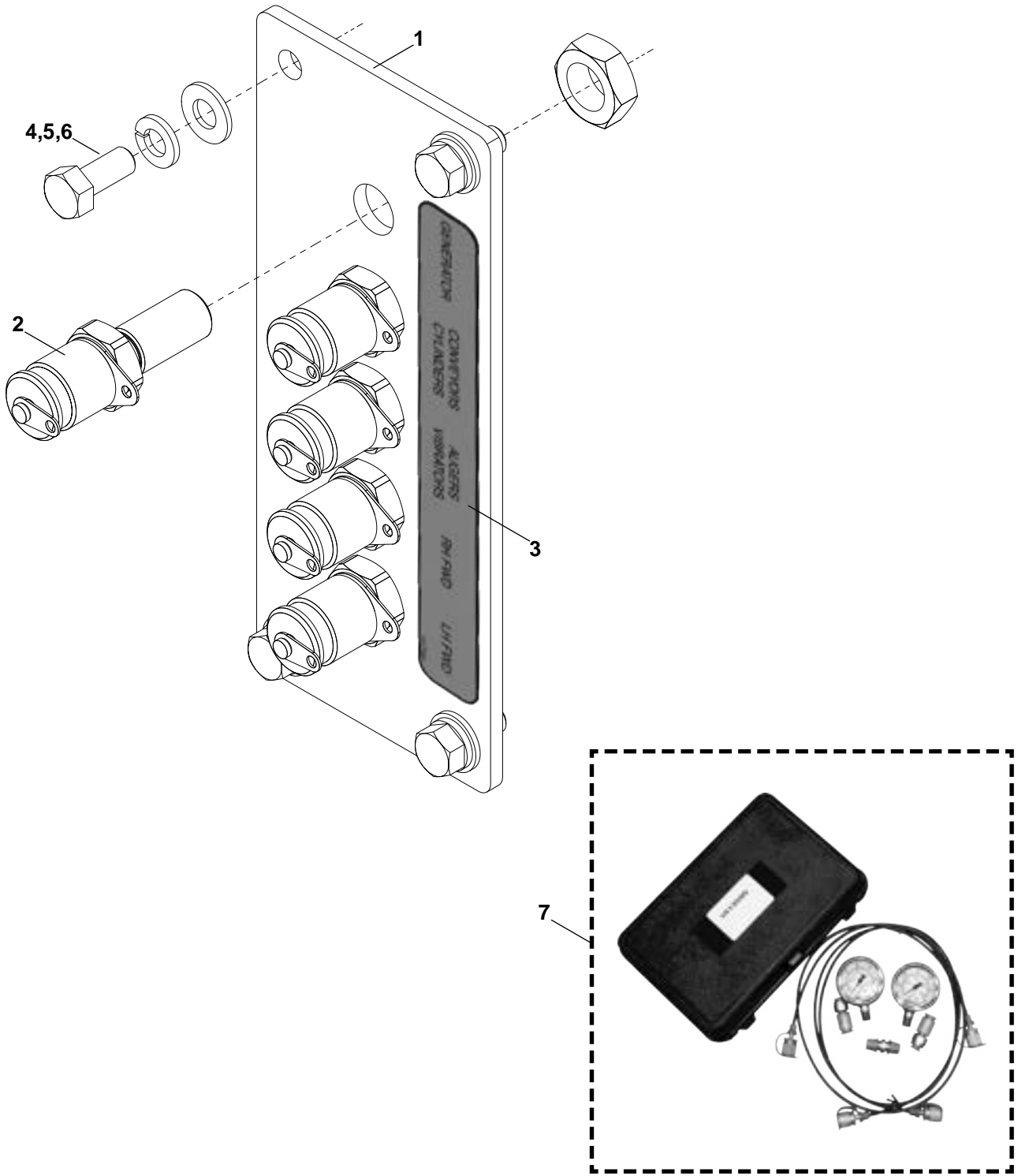


Figure 7-13. Hydraulic Test Ports

Hydraulic Test Ports

Item No	Part Number	Qty	Description	Remarks
1	1018622	1	Test Port Plate	
2	1019707	5	Hydraulic Test Port to #4 JIC Bulkhead	
3	1017186	1	Decal - Test Port Label	
4	100-5-18-12-5F	4	CSHH, 5/16-18 x .75, GR5, FT	
5	302-5	4	Washer, Lock, 5/16	
6	300-5	4	Washer, Flat, SAE, 5/16	
REF	1013588-48	3	SMS Test Hose Assembly w/#4 Female JIC-48"	Not Shown
REF	1013588-96	2	SMS Test Hose Assembly w/#4 Female JIC-96"	Not Shown
7	1013595	1	Hydraulic Pressure Test Kit	OPTION

Illustrated Parts List

ENGINE ASSEMBLY - RADIATOR

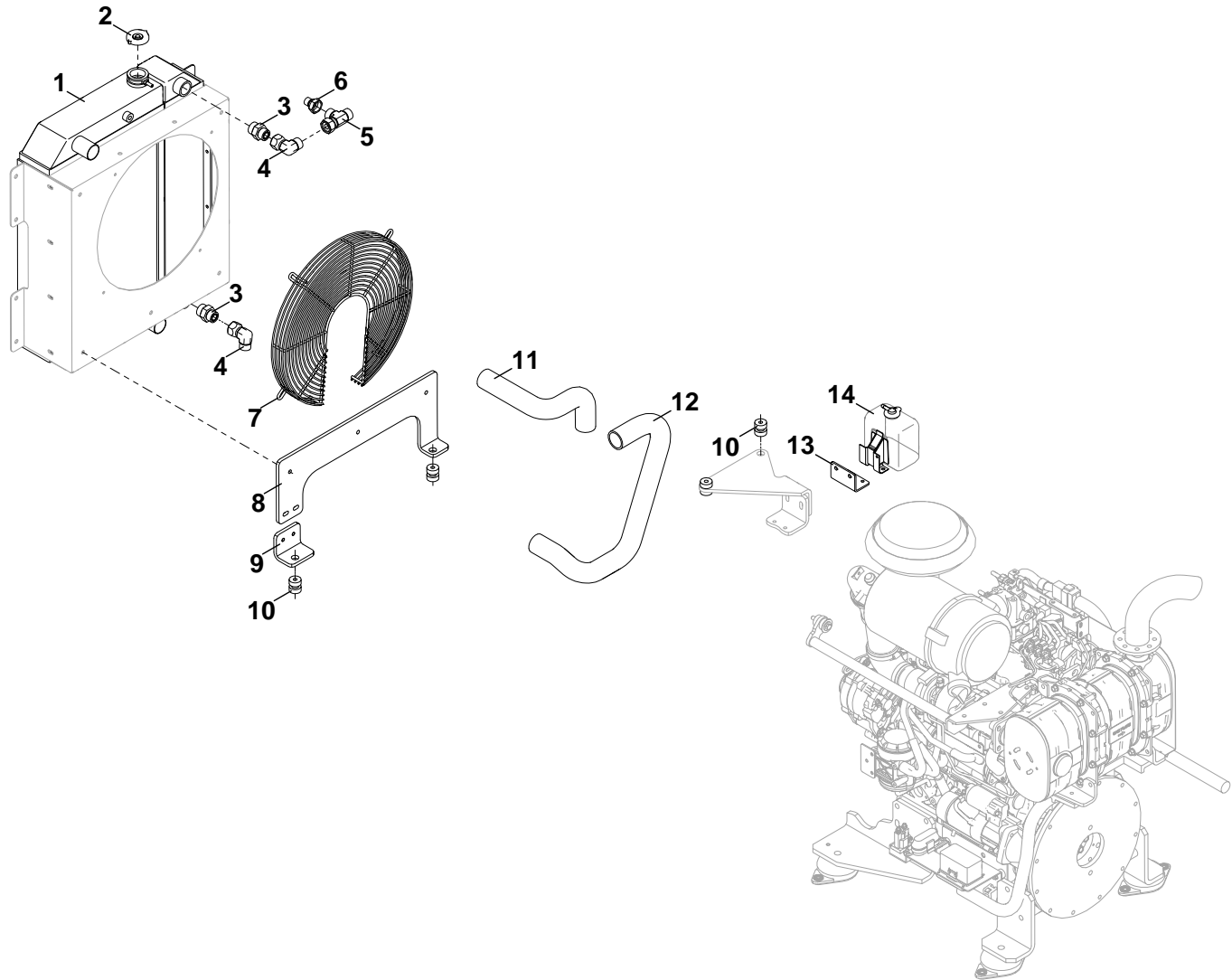


Figure 7-14. Engine Assembly - Radiator

Engine Assembly - Radiator

Item No	Part Number	Qty	Description	Remarks
1	988673-13	1	Radiator/Cooler Assembly	
2	1002184-04	1	Radiator Cap	
3	FS6500-12-16-O	2	Straight Adapter, -12 ORFS/-16 O-Ring	
4	FS6500-12-12-FG	2	Swivel Elbow Adapter, 90°, -12 ORFS/ -12 ORFS	
5	FS6602-12-12-12-FG	1	Swivel Run Tee Adapter, -12 ORFS/ -12 ORFS/ -12 ORFS	
6	FS2406-12-10	1	Straight Reducer Adapter, -12 FFORX/ -10 ORFS	
7	1005365-23	1	Radiator Fan Guard	
8	1009384-12	1	Lower Radiator Mount	
9	1009384-18	1	Radiator Support Bracket	
10	1001166-57	4	Radiator Mount Isolator	
11	1006963-15	1	Upper Radiator Hose	
12	1006963-16	1	Lower Radiator Hose	
13	1009384-08	1	Recovery Tank Bracket	
14	986537-46	1	Coolant Recovery Tank	

Illustrated Parts List

ENGINE ASSEMBLY - INTAKE/EXHAUST

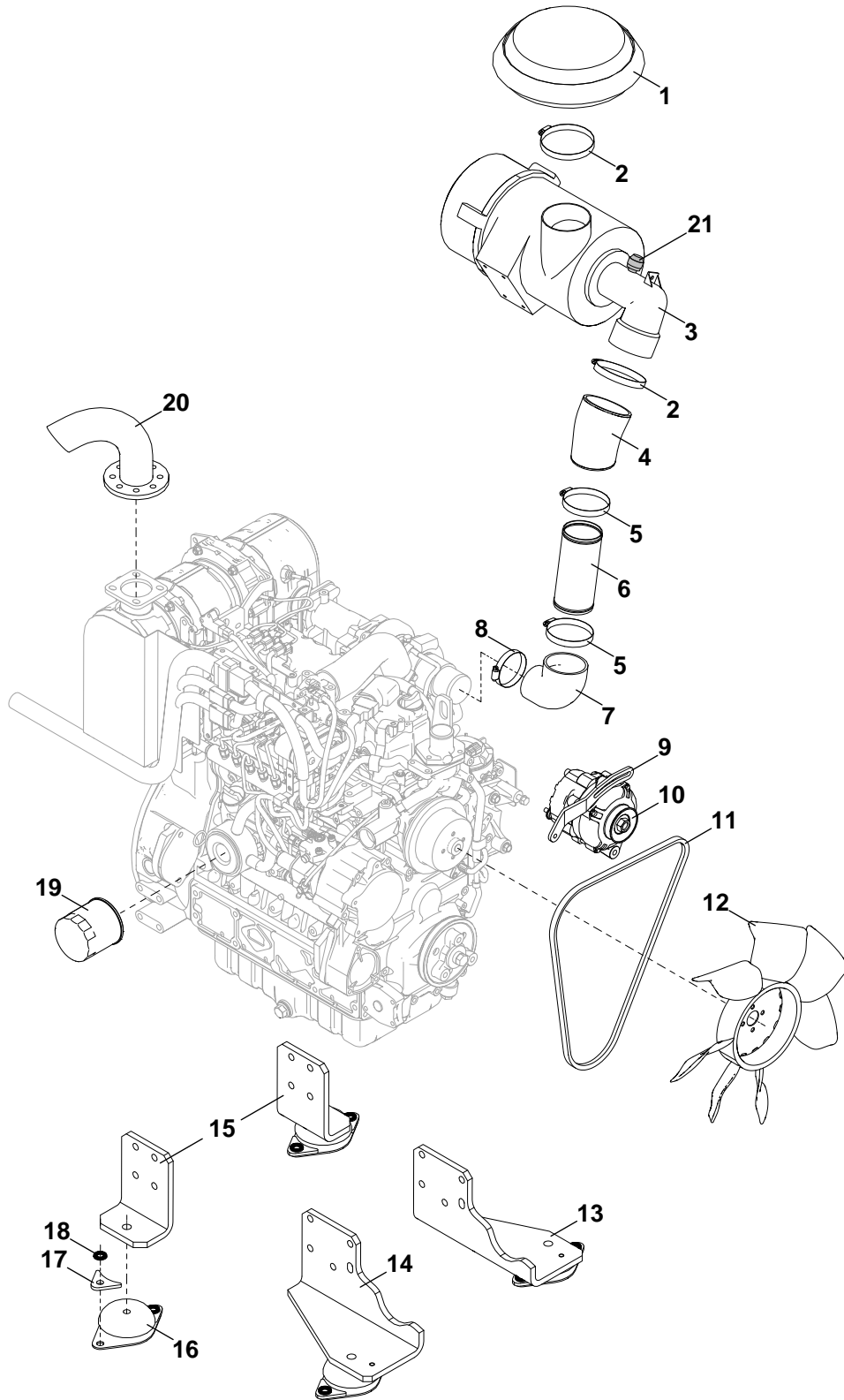


Figure 7-15. Engine Assembly - Intake/Exhaust

Engine Assembly - Intake/Exhaust

Item No	Part Number	Qty	Description	Remarks
1	1002917-29	1	Air Inlet Hood	
2	1016249-30	2	Hose Clamp	
3	1010255	1	Air Breather Assembly	
REF	1009253-17	1	Primary Air Filter	
REF	1009253-16	1	Secondary Air Filter	
4	1019244-02	1	Intake Reducer Elbow, 22°, 3.50" to 3.00"	
5	1016249-29	2	Hose Clamp	
6	1013710-02	1	Lower Intake Pipe	
7	1009384-02	1	Reducing Elbow, 90°	
8	1016249-28	1	Hose Clamp	
9	1009253-31	1	Alternator Bracket	
10	1009253-21	1	Alternator	
11	1009253-20	1	Fan Belt	
12	1016478-01	1	Radiator Fan	
13	986537-17	1	Front Engine Mount - Left	
14	986537-16	1	Front Engine Mount - Right	
15	988673-14	2	Rear Engine Mount	
16	986537-14	4	Engine Isolator	
17	1017061	8	Engine Mount Washer	
18	986810	8	Washer, Lock, 1/2, Nord Wedge	
19	986537-03	1	Oil Filter	
20	1011364	1	Tail Pipe	
21	986537-66	1	Mass Air Flow Sensor	

Illustrated Parts List

ENGINE ASSEMBLY - COMPONENTS

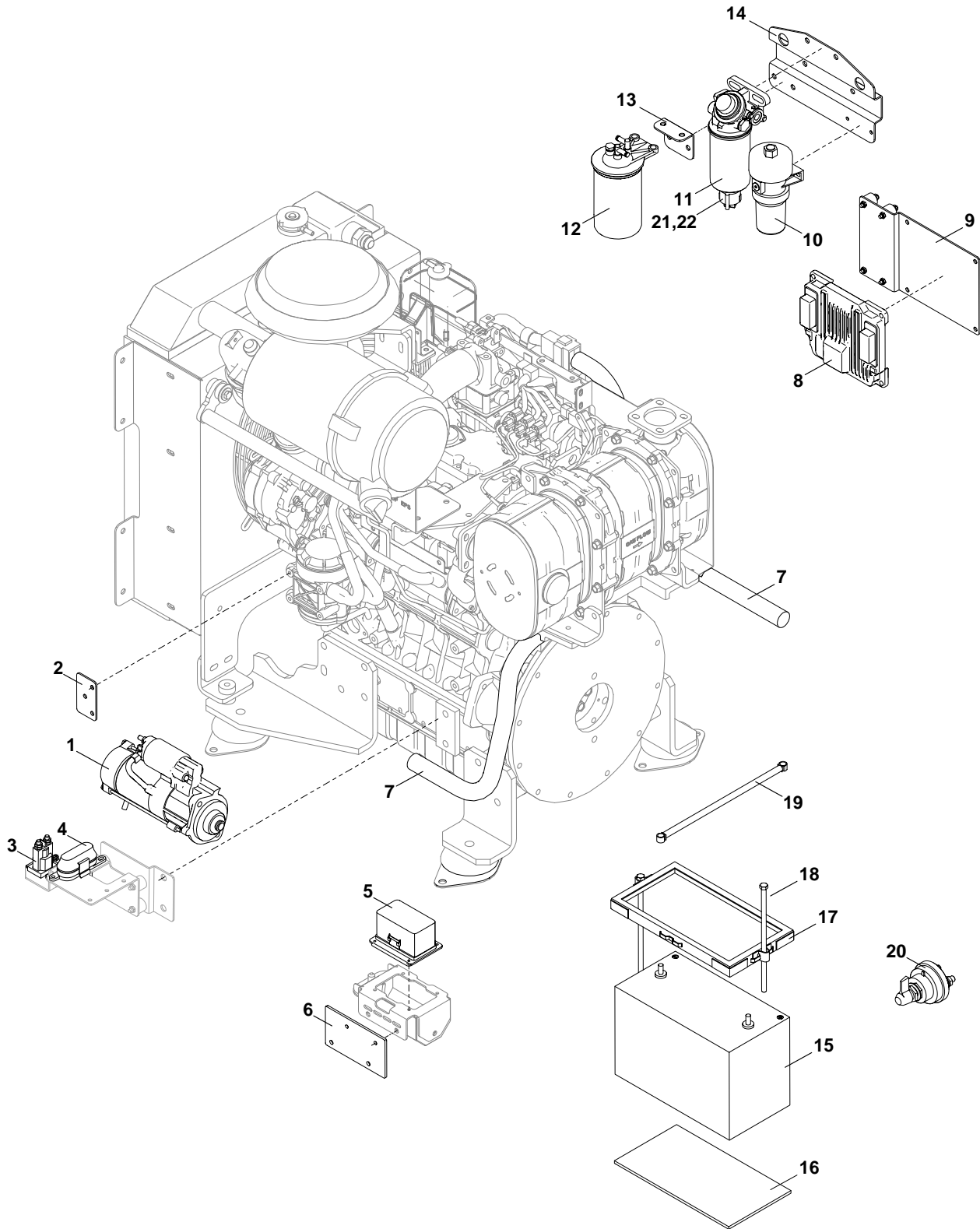


Figure 7-16. Engine Assembly - Components

Engine Assembly - Components

Item No	Part Number	Qty	Description	Remarks
REF	1019244	1	Kubota Engine, T4F, 74HP	
1	1001166-03	1	Starter	
2	1009253-29	1	Harness Bracket	
3	1005908-08	1	Relay	
4	1009253-27	1	Fuse Holder	
5	1011049-39	1	Fuse Block	See Fig. 7-17
6	1016713	1	Fuse Block Bracket Plate	
7	1011799-24	1	Intermediate Engine Harness	
8	1009253-24	1	ECU	
9	1009253-01	1	ECU Mounting Bracket	
10	1010471	1	Fuel Pump with Filter	
11	1009253-19	1	Fuel/Water Separator Filter	
12	1009253-18	1	Fuel Filter	
13	1016249-08	1	Fuel Filter Mount	
14	1016249-07	1	Fuel Pump/Filters Mount	
15	Purchase Locally	1	12V Battery, 950 CCA	
16	720130	1	Battery Tray Pad	
17	72313	1	Battery Hold Down	
18	100-6-16-160-5	2	CSHH, 3/8-16 x 10.00, GR5	
19	5804	1	Negative Battery Cable	
20	1009253-34	1	Battery Disconnect Switch	
21	1009253-36	1	Fuel Sender	
22	1009253-35	1	Fuel Water Separator Harness	Not Shown

Illustrated Parts List

ENGINE ASSEMBLY - FUSE/RELAY BOX

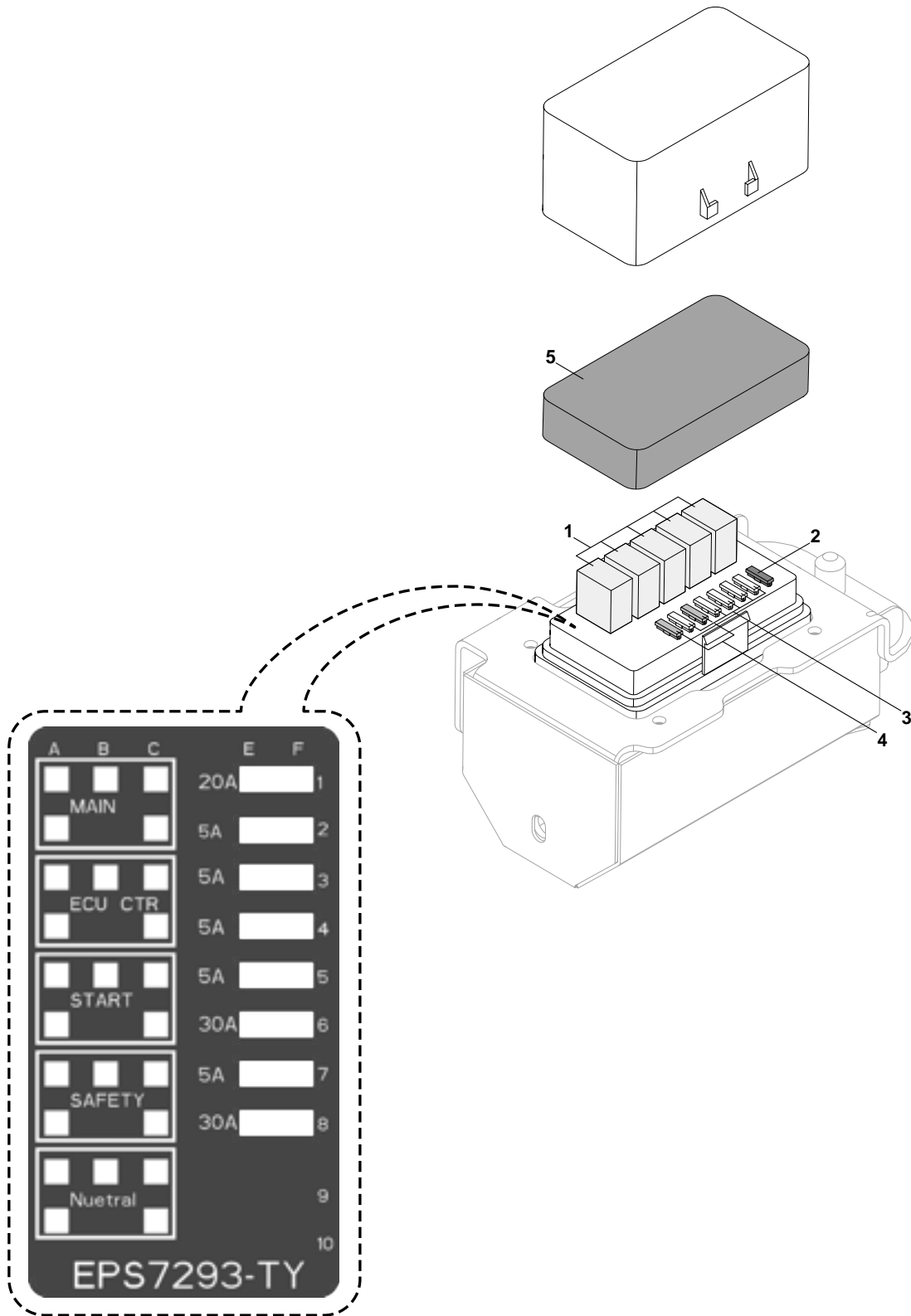


Figure 7-17. Engine Assembly - Fuse Relay Box

Engine Assembly - Fuse/Relay Box

Item No	Part Number	Qty	Description	Remarks
REF	1011049-39	1	Engine Fuse Block, Kubota, T4F	
1	1009253-41	5	Power Block Relay	
2	1017776-20	1	ATM Blade Fuse, 20A	
3	1017776-05	5	ATM Blade Fuse, 5A	
4	1017776-30	2	ATM Blade Fuse, 30A	
5	1009253-45	1	Fuse Box Foam Rubber	

Illustrated Parts List

ENGINE ASSEMBLY - PUMPS

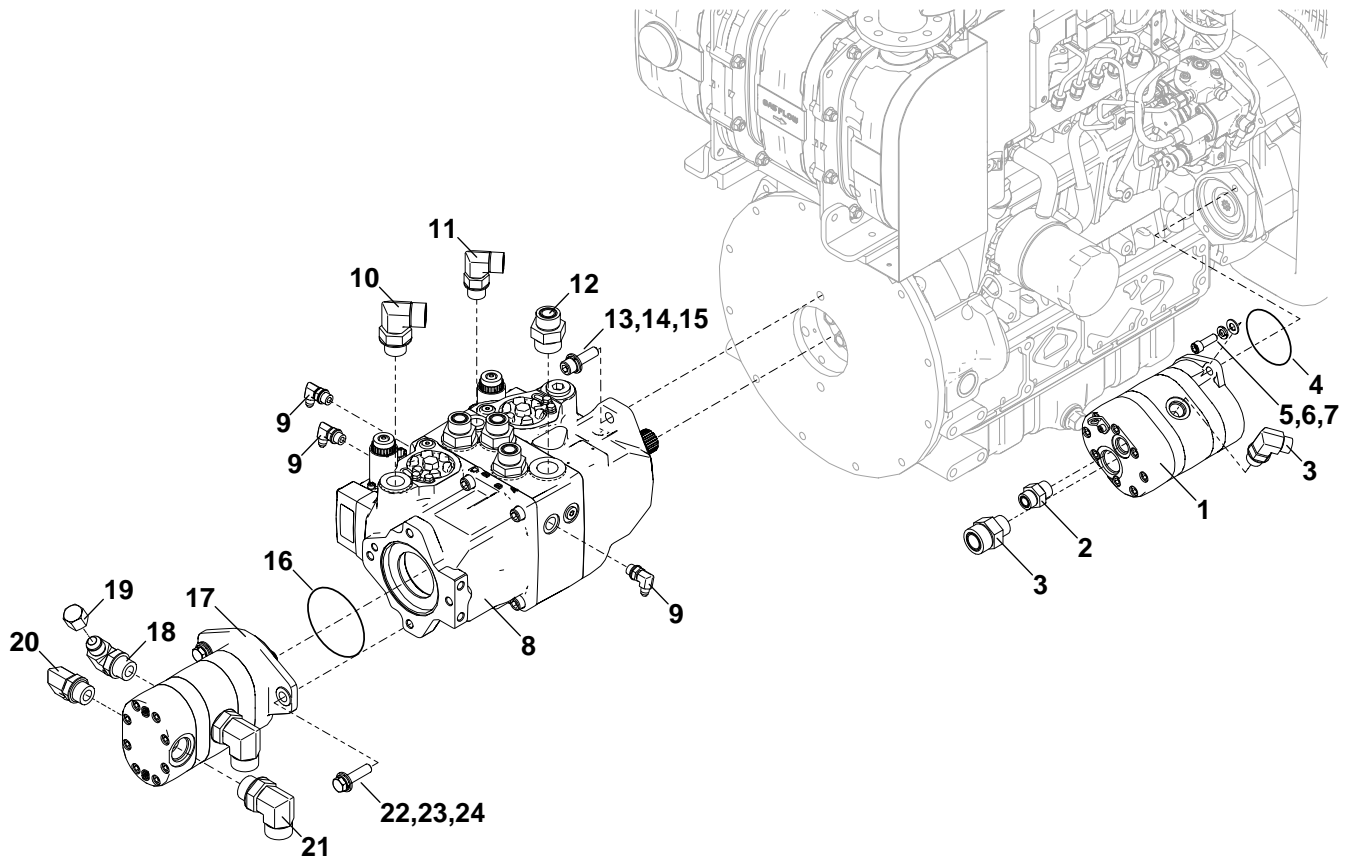


Figure 7-18. Engine Assembly - Pumps

Engine Assembly - Pumps

Item No	Part Number	Qty	Description	Remarks
1	1017733	1	Hydraulic Pump, Tandem, 22.5 CC/19 CC, 9T	
2	FS6400-10-10-O	2	Straight Adapter, -10 ORFS/ -10 O-Ring	
3	FS6400-16-12-O	1	Straight Adapter, -16 ORFS/ -12 O-Ring	
4	36808	1	O-Ring, 3.237 ID x .103, SAE 152	
5	102-M10-1.5-30-10.9F	2	CSSH, M10x1.25 x 30mm, C10.9, FT	
6	302-M10	2	Washer, Lock, M10	
7	300-M10	2	Washer, Flat, SAE, M10	
8	1009527	1	Tandem Hydraulic Pump, H1 w/EDC, w/o Charge	
-	986519-01	A/R	Control Bypass Coil - H1 Pump	Not Shown
-	986519-02	A/R	Hold Down Coil Nut - H1 Pump	Not Shown
-	986519-05	A/R	Hydraulic Pump Shaft Seal Kit - H1 Pump	Not Shown
-	986519-06	A/R	Hydraulic Pump Shaft Bearing - H1 Pump	Not Shown
-	986519-07	A/R	Shaft Seal Snap Ring - H1 Pump	Not Shown
-	986519-08	A/R	Control Coil - H1 Pump	Not Shown
-	986519-09	A/R	Valve Stem Kit - H1 Pump	Not Shown
-	986519-10	A/R	Gasket & Screws - H1 Pump	Not Shown
9	6801-4-6 NWO	3	Elbow Adapter, 90°, -4 JIC / -8 O-Ring	
10	FS6801-12-12-NWO-FG	1	Elbow Adapter, 90°, -12 ORFS / -12 O-Ring	
11	FS6801-10-10-NWO-FG	1	Elbow Adapter, 90°, -10 ORFS / -10 O-Ring	
12	FS6400-12-16-O	1	Straight Adapter, -12 ORFS / -16 O-Ring	
13	100-8-13-28-8	2	CSSH, 1/2-13 x 1.75, GR8	
14	302-8	2	Washer, Lock, 1/2	
15	300-8	2	Washer, Flat, SAE, 1/2	
16	12757410	1	O-Ring, FKM/Viton, 75D, 3.737 ID x .103	
17	1016845	1	Tandem Hydraulic Pump, 31.8 CC/25.1 CC, 13T, B	
18	FS6803-10-10-12-NWO-FG	1	Branch Tee Adapter, -10 ORFS/ -10 ORFS/ -12 O-Ring	
19	FS304-C-10	1	Cap Adapter, -10 ORFS	
20	FS6801-08-12-NWO-FG	1	Elbow Adapter, 90°, -8 ORFS/ -12 O-Ring	
21	FS6801-16-16-NWO-FG	2	Elbow Adapter, 90°, -16 ORFS/ -16 O-Ring	
22	100-M12-1.75-35-10.9F	2	CSHH, M12x1.75 x 40mm, C10.9, FT	
23	302-M12	2	Washer, Lock, M12	
24	300-M12	2	Washer, Flat, SAE, M12	

Illustrated Parts List

GENERATOR

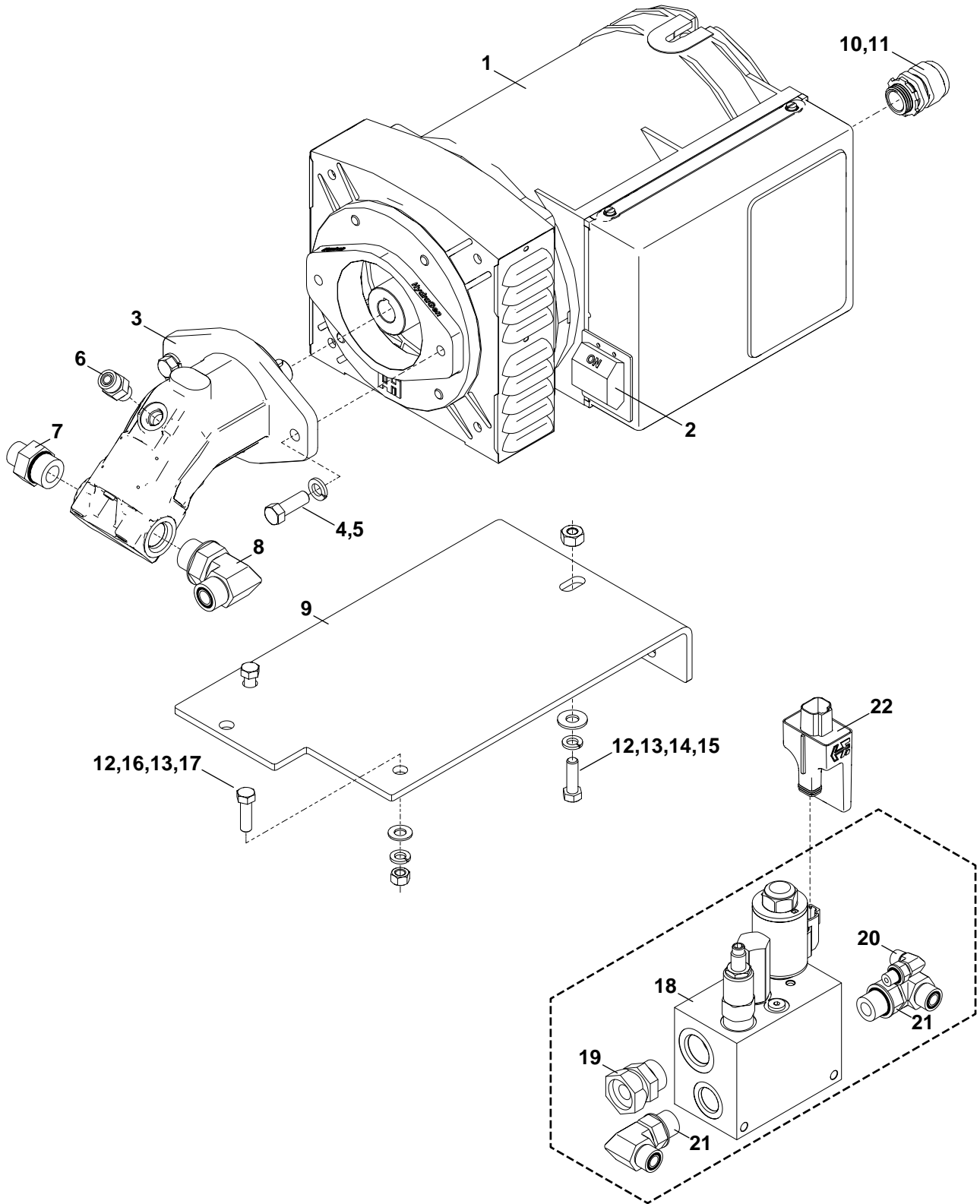


Figure 7-19. Generator

Illustrated Parts List

Generator

Item No	Part Number	Qty	Description	Remarks
REF	1019389	1	Generator Assembly w/Mount, Harness, Fittings	Includes Items 1-17
1	1017009	1	Generator Assembly, 10kW	Includes Item 2-5
2	1017057	1	Circuit Breaker, 50A	
3	1014873-02	1	Bent Axis Piston Motor, 10 CC	
4	100-7-14-20-5F	2	CSHH, 7/16-14 x 1.25, GR5, FT	
5	302-7	2	Washer, Lock, 7/16	
6	FS6400-06-06-O	1	Straight Adapter, -6 ORFS/ -6 O-Ring	
7	FS6400-08-12-O	1	Straight Adapter, -8 ORFS/ -12 O-Ring	
8	FS6801-10-12-NWO-FG	1	Elbow Adapter, 90°, -10 ORFS/-12 O-Ring	
9	1017183	1	Generator Mount	
10	3400DI	1	Water Tight Connector, 3/4 x 3/4 MPT	
11	38965	1	Conduit Lock Nut, 3/4 NPT	
12	100-6-16-20-5	3	CSHH, 3/8-16 x 1.25, GR5	
13	302-6	3	Washer, Lock, 3/8	
14	301-6	1	Washer, Flat, USS, 3/8	
15	201-6-16-5	1	Nut, Hex, Heavy, 3/8-16, GR5	
16	300-6	2	Washer, Flat, SAE, 3/8	
17	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	
REF	1018928	1	10kW Generator Manifold Assembly	Includes 18-21
18	1017710	1	Generator Manifold	
19	FS6540-12-12-O	1	Swivel Straight Adapter, -12 ORFS/-12 O-Ring	
20	FS6801-04-04-NWO-FG	1	Elbow Adapter, 90°, -4 ORFS/-4 O-Ring	
21	FS6801-08-10-NWO-FG	2	Elbow Adapter, 90°, -8 ORFS/-10 O-Ring	
22	1018639	1	Valve Driver, EGDR-0101A, 10kW	
REF	1016724	1	Bulkhead to Generator Harness	Not Shown

Illustrated Parts List

HYDRAULIC OIL COOLER

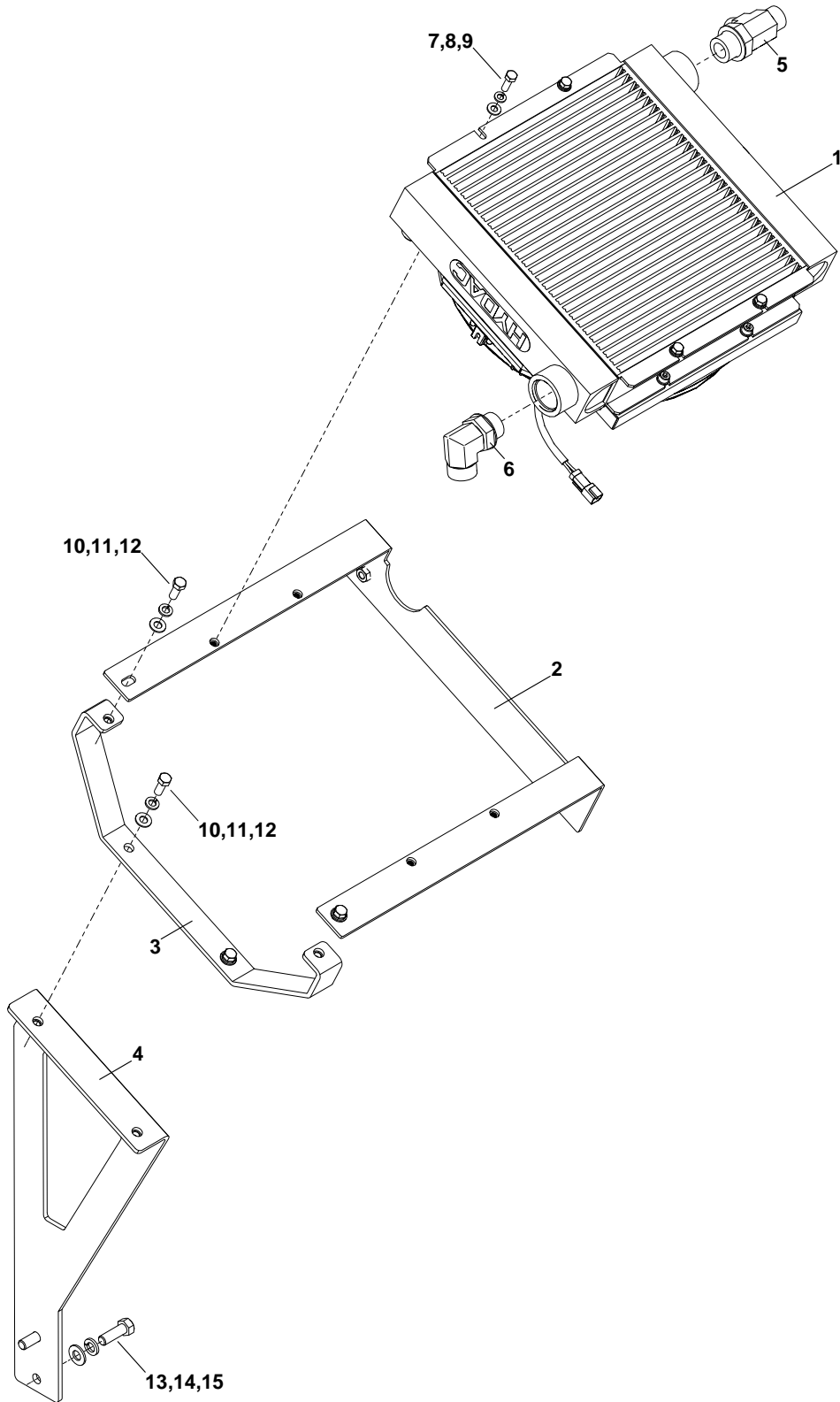


Figure 7-20. Hydraulic Oil Cooler

Hydraulic Oil Cooler

Item No	Part Number	Qty	Description	Remarks
1	1019123	1	Auxiliary Oil Cooler w/Fan	
REF	1018378-01	1	Oil Cooler Fan	Included with Item 1
REF	1018378-03	1	Oil Cooler Temperature Switch	Included with Item 1
2	1016567	1	Cooler Mount Weldment - Top	
3	1016565	1	Oil Cooler Mounting Bracket	
4	1016708	1	Cooler Mounting Brace	
5	FS6804-12-16-12-NWO-FG	1	Run Tee Adapter, -12 ORFS/ -16 O-Ring/ -12 ORFS	
6	FS6801-16-16-NWO-FG	1	Elbow Adapter, 90°, -16 ORFS/ -16 O-Ring	
7	100-5-18-16-5F	4	CSHH, 5/16-18 x 1.00, GR5, FT	
8	302-5	4	Washer, Lock, 5/16	
9	300-5	4	Washer, Flat, SAE, 5/16	
10	100-6-16-16-5F	4	CSHH, 3/8-16 x 1.00, GR5, FT	
11	302-6	4	Washer, Lock, 3/8	
12	300-6	4	Washer, Flat, SAE, 3/8	
13	100-8-13-24-5	2	CSHH, 1/2-13 x 1.50, GR5	
14	302-8	2	Washer, Lock, 1/2	
15	300-8	2	Washer, Flat, SAE, 1/2	
REF	10109514	1	Hydraulic Cooler Harness, SPAL Fan	Not Shown

Illustrated Parts List

HYDRAULIC MANIFOLD - LOWER

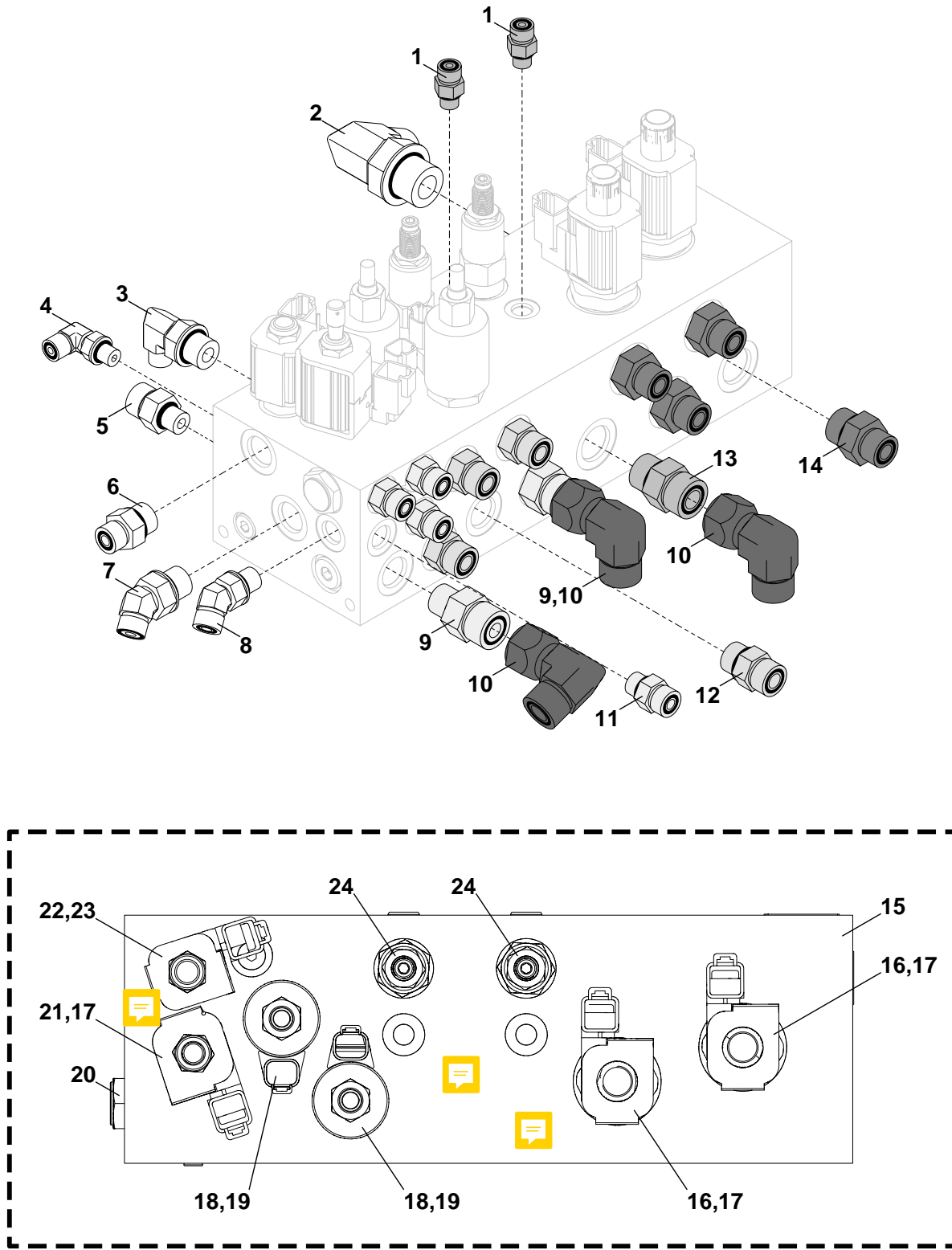


Figure 7-21. Hydraulic Manifold - Lower

Hydraulic Manifold - Lower

Item No	Part Number	Qty	Description	Remarks
REF	1018911	1	Lower Manifold Assembly w/ORFS Adapters	
1	FS6400-04-04-O	2	Straight Adapter, -4 ORFS/-4 O-Ring	
2	FS6802-12-12-NWO-FG	1	Elbow Adapter, 45°, -12 ORFS/-12 O-Ring	
3	FS6801-04-08-NWO-FG	1	Elbow Adapter, 90°, -4 ORFS/-8 O-Ring	
4	FS6801-04-04-NWO-FG	1	Elbow Adapter, 90°, -4 ORFS/-4 O-Ring	
5	FS6400-08-06-O	1	Straight Adapter, -8 ORFS/-6 O-Ring	
6	FS6400-06-08-O	1	Straight Adapter, -6 ORFS/-8 O-Ring	
7	FS6802-06-08-NWO-FG	1	Elbow Adapter, 45°, -6 ORFS/-8 O-Ring	
8	FS6802-06-06-NWO-FG	1	Elbow Adapter, 45°, -6 ORFS/-6 O-Ring	
9	FS6400-10-08-O	2	Straight Adapter, -10 ORFS/-8 O-Ring	
10	FS6500-10-10-FG	3	Swivel Elbow Adapter, 90°, -10 ORFS/-10 ORFS	
11	FS6400-06-06-O	4	Straight Adapter, -6 ORFS/-6 O-Ring	
12	FS6400-08-08-O	4	Straight Adapter, -8 ORFS/-8 O-Ring	
13	FS6400-10-10-O	1	Straight Adapter, -10 ORFS/-10 O-Ring	
14	FS6400-08-10-O	4	Straight Adapter, -08 ORFS/-10 O-Ring	
15	1018059	1	Lower Manifold	Includes Items 16-25
16	1018059-04	2	Cartridge	
17	986972-02	3	12VDC Coil	
18	1018059-06	2	Solenoid Cartridge	
19	1001686-03	2	Valve Coil	
20	984579-10	1	Flow Divider	
21	1018059-06	1	Solenoid Cartridge	
22	1018059-03	1	Solenoid Cartridge	
23	984657-06	1	12VDC Coil	
24	1018059-02	2	Relief Valve Cartridge	

Illustrated Parts List

HYDRAULIC CYLINDERS

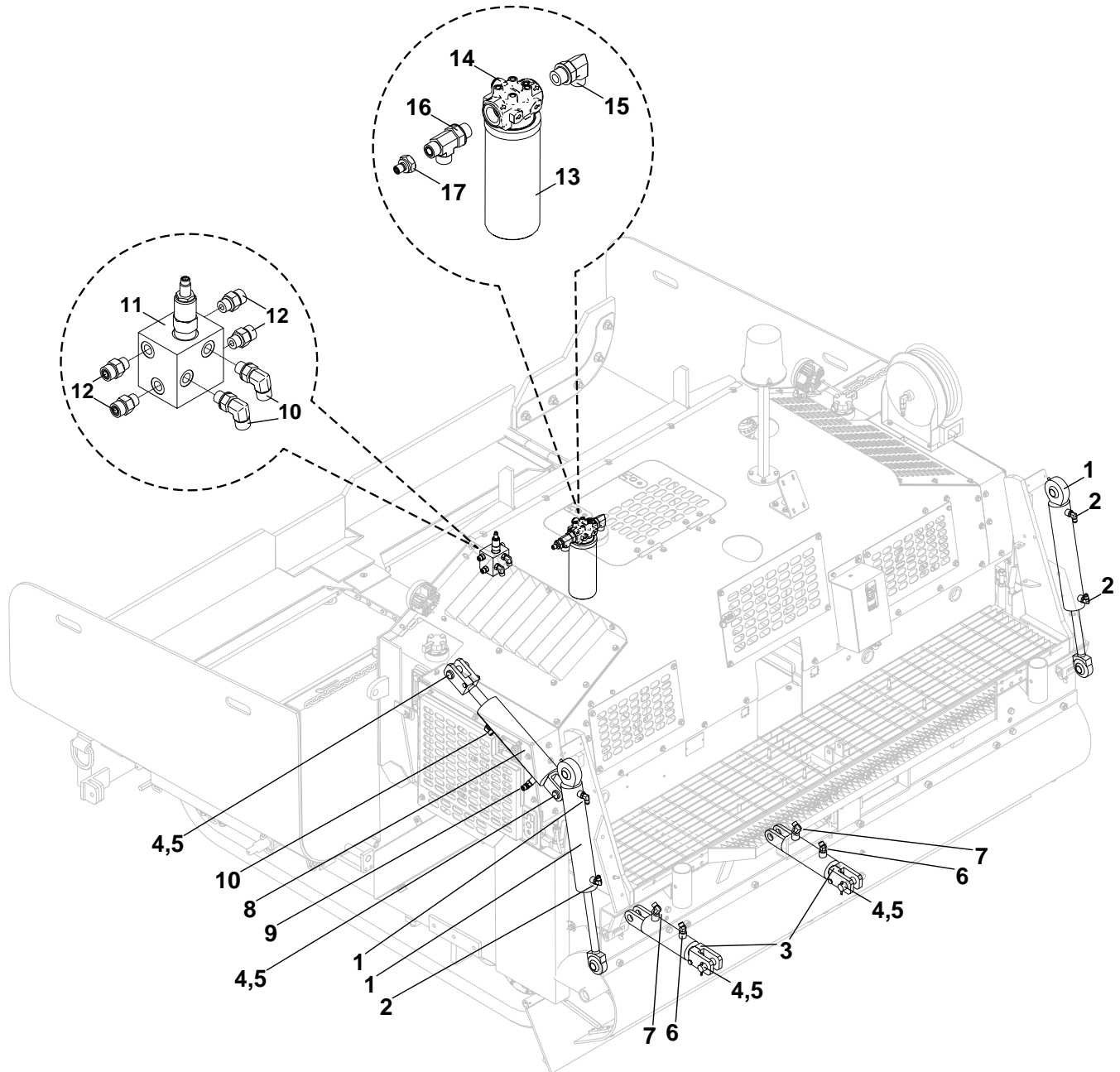


Figure 7-22. Hydraulic Cylinders

Hydraulic Cylinders

Item No	Part Number	Qty	Description	Remarks
1	1014284SRV	2	Screed Lift Cylinder, 2.50 x 12.00 x 1.00	
2	6801-6-6 NWO	4	Elbow Adapter, 90°, -6 JIC/-6 O-Ring	
REF	1019174	2	Hydraulic Cylinder, Cut Off w/Adapters	Includes Items 3-7
3	910170	2	Hydraulic Cylinder, 2.50 x 4.00 x 1.25	
-	910170-01	A/R	Seal Kit for Item# 3	Not Shown
4	1011476	10	Clevis Pin, 1.00 x 2.50	
5	80336	10	Cotter Pin, 3/16" x 1.50"	
6	FS2503-06-06-FG	2	Elbow Adapter, 45°, -6 ORFS/-6 NPTF	
7	FS2501-06-06-FG	2	Elbow Adapter, 90°, -6 ORFS/-6 NPTF	
REF	1019171	1	Conveyor Lift Cylinder w/Adapters	Includes Items 8-10
8	1016711	1	Conveyor Lift Cylinder, 3.00 x 9.00	
9	FS6802-06-06-NWO-FG	1	Elbow Adapter, 45°, -6 ORFS/-6 O-Ring	
10	FS6801-06-06-NWO-FG	3	Elbow Adapter, 90°, -6 ORFS/-6 O-Ring	
REF	1019176	1	Hopper Wing Sequence Manifold Assembly	Includes Items 10-12
11	910122	1	Hopper Wing Sequence Manifold	
12	FS6400-06-06-O	4	Straight Adapter, -6 ORFS/-6 O-Ring	
REF	1018912	1	Charge Filter Assembly	Includes Items 13-17
13	290030	1	Hydraulic Filter Element, 9 Micron	
14	1017402	1	Hydraulic Filter Head, HMK04	
15	FS6801-10-12-NWO-FG	1	Elbow Adapter, 90°, -10 ORFS/-12 O-Ring	
16	FS6804-10-12-10-NWO-FG	1	Run Tee Adapter, -10 ORFS/-12 O-Ring/-10 ORFS	
17	FS2406-10-04	1	Straight Reducer Adapter, -10 FFORX/-4 ORFS	

Illustrated Parts List

HOODS AND COVERS - LEFT

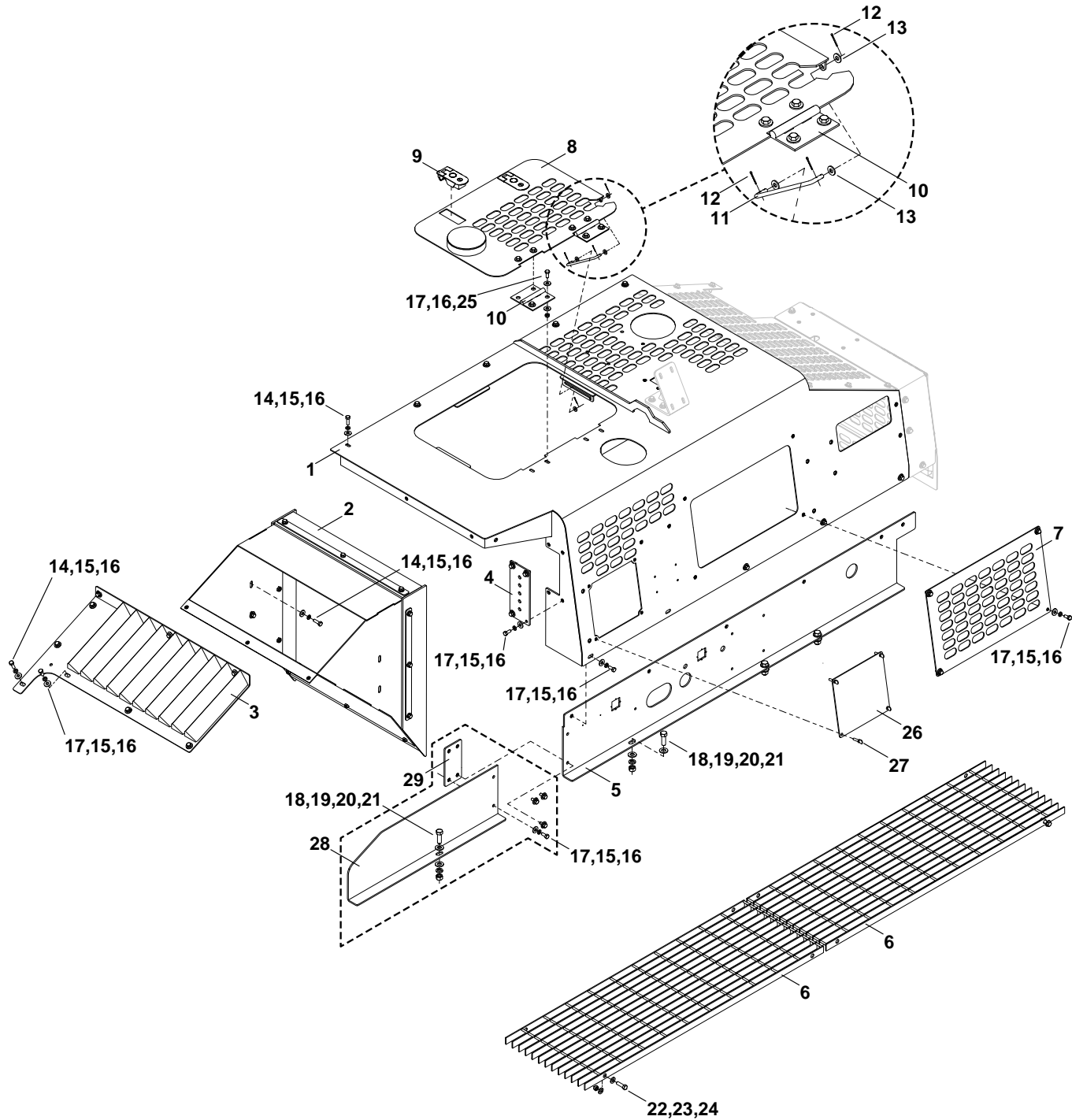


Figure 7-23. Hoods and Covers - Left

Hoods and Covers - Left

Item No	Part Number	Qty	Description	Remarks
GRP	1019099		Group - Covers and Panels	
1	1018616	1	Main Engine Cover	
2	1016486	1	Radiator Deflector Assembly	
3	1018620	1	Radiator Deflector	
4	1018622	1	Test Port Plate	
5	1018623	1	Toeboard	
6	1014686	2	Walkboard Grating	
7	1016425	1	Access Hole Cover	
8	1019384	1	Top Access Door	
9	980460	2	Lever Latch	
REF	35560	A/R	Replacement Key	
10	980316	2	Cover Hinge	
11	1019366	1	Hood Prop Rod	
12	13A-0212ZI	4	Cotter Pin, 1/16 x 3/4	
13	300-4	4	Washer, Flat, SAE, 1/4	
14	100-5-18-16-5	A/R	CSHH, 5/16-18 x 1.00, GR5	
15	302-5	A/R	Washer, Lock, 5/16	
16	301-5	A/R	Washer, Flat, USS, 5/16	
17	100-5-18-12-5F	A/R	CSHH, 5/16-18 x .75, GR5, FT	
18	100-8-13-24-5	4	CSHH, 1/2-13 x 1.50, GR5	
19	300-8	8	Washer, Flat, SAE, 1/2	
20	302-8	4	Washer, Lock, 1/2	
21	200-8-13-5	4	Nut, Hex, 1/2-13, GR5	
22	100-6-16-20-5	2	CSHH, 3/8-16 x 1.25, GR5	
23	300-6	4	Washer, Flat, SAE, 3/8	
24	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	
25	204-5-18-5	8	Nut, Lock, Stover, 5/16-18, GR5	
26	1019524	1	Belt Access Cover	
27	988336	4	Thumb Screw, 1/4-20 x 1.00	
OPT	1019111		OPTION - Covers And Panels, High Deck	Includes Items 15-21,28,29
28	1018668	1	Toeboard, High Deck - Left	
29	1016404	1	Cover Connector	

Illustrated Parts List

HOODS AND COVERS - RIGHT

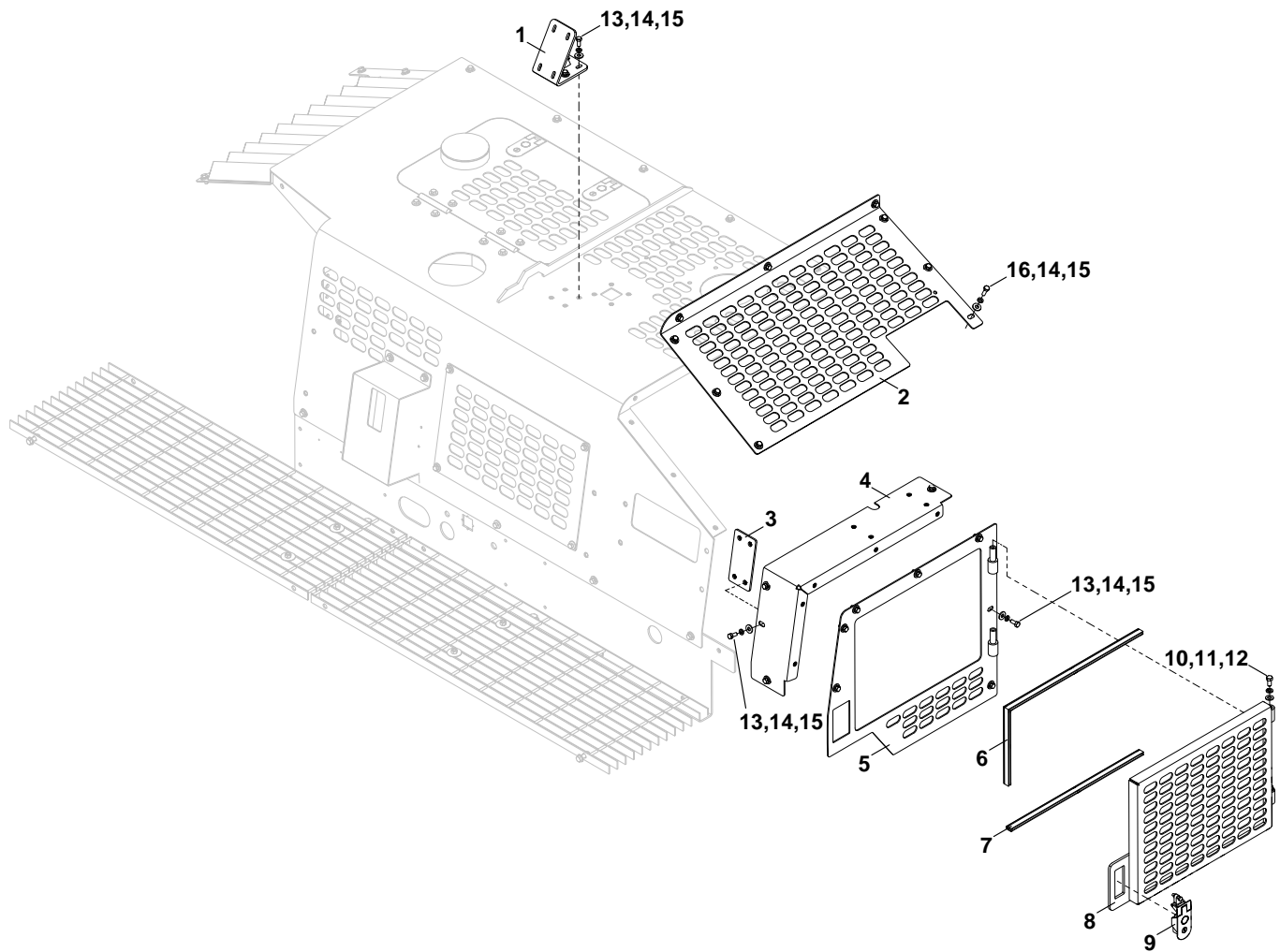


Figure 7-24. Hoods and Covers - Right

Hoods and Covers - Right

Item No	Part Number	Qty	Description	Remarks
1	1011395	1	Air Breather Mount	
2	1016414	1	Pump Vent Plate	
3	1016404	1	Cover Connector	
4	1016544	1	Engine Cover - Right	
REF	1016416	1	Side Access Door Assembly - Right	Includes Items 5-12
5	1016434	1	Access Door Mount - Right	
6	1016435	1	Edge Trim	
7	1016438	1	Edge Trim - Lower	
8	1016431	1	Access Door - Right	
9	980460	1	Lever Latch	
REF	35560	A/R	Replacement Key	
10	100-6-16-12-5F	2	CSHH, 3/8-16 x .75, GR5, FT	
11	302-6	2	Washer, Lock, 3/8	
12	300-6	2	Washer Flat, SAE, 3/8	
13	100-5-18-12-5F	A/R	CSHH, 5/16-18 x .75, GR5, FT	
14	302-5	A/R	Washer, Lock, 5/16	
15	301-5	A/R	Washer, Flat, USS, 5/16	
16	100-5-18-16-5	8	CSHH, 5/16-18 x 1.00, GR5	

Illustrated Parts List

SPRAY DOWN

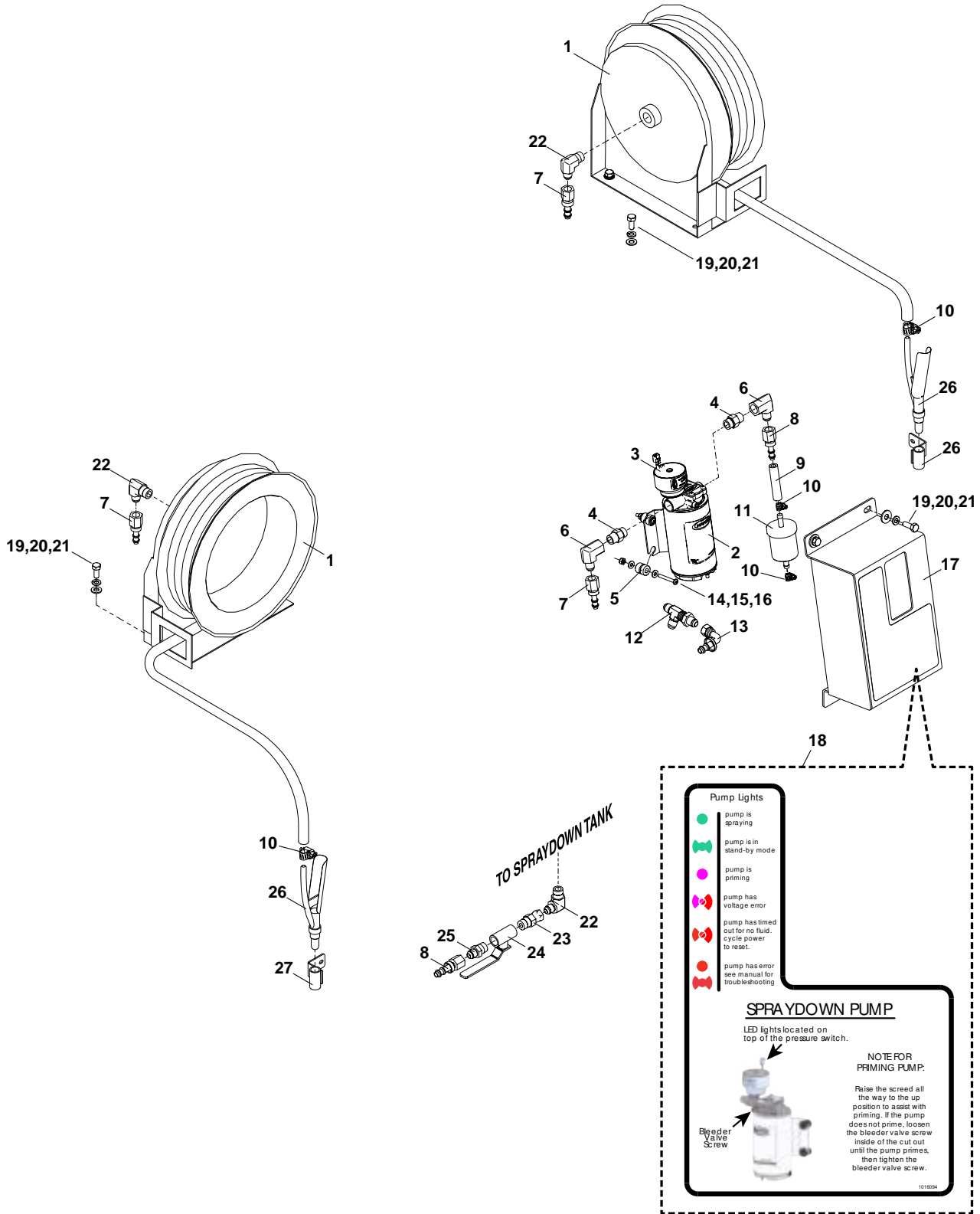


Figure 7-25. Spray Down

Spray Down

Item No	Part Number	Qty	Description	Remarks
1	920200	2	Spray Down Reel w/Hose	
REF	1015438	1	Spray Down Pump w/Pressure Switch	Includes Items 2 - 5
2	1015438-01	1	Spray Down Pump Body	
3	1015438-02	1	Pressure Sensor	
4	1015089-04	2	Straight Adapter, -6 BSPP / -6 NPT	
5	1015089-05	4	Pump Isolator	
6	2502-6-6	2	Elbow Adapter, 90°, -6 JIC / -6 NPTF	
7	6LOC-6RFJX	3	Push-Lok Fitting, -6 LOC / -6 RFJX	
8	5LOC-6RFJX		Push-Lok Fitting, -5 LOC / -6 RFJX	
9	71812	1	Push On Hose, .05, 2.50" Long	
10	33277	2	Hose Clamp, #04 (.22 - .62)	
11	986537-31	1	Inline Filter	
12	2704-6-6-6-LN	1	Run Tee Bulkhead Adapter, -6 JIC / -6 JIC / -6	
13	6LOC-6RFJX90S	1	Push-Lok Fitting, 90°, Short, -6LOC/-6RFJSX	
14	122-#10-32-20F	4	PHMS, Cross, #10-32 x 1.50, FT	
15	300-#10	8	Washer, Flat, SAE, #10	
16	205-#10-32-5	4	Nut, Lock, Nylon, #10-32, GR5	
17	1016095	1	Spray Down Pump Weldment	
18	1016094	1	Decal - Spray Down Pump Operation	
19	100-5-18-14-5F	11	CSHH, 5/16-18 x .75, GR5, FT	
20	302-5	11	Washer, Lock, 5/16	
21	300-5	11	Washer, Flat, SAE, 5/16	
22	2501-6-6	3	Elbow Adapter, 90°, -6 JIC / -6 NPT	
23	6505-6-6	1	Male Pipe Swivel Adapter, -6 NPTF / -6 JIC	
24	480160	1	Ball Valve, 3/8	
25	2404-6-6	1	Connector Adapter, -6 JIC / -6 NPTF	
26	920220	2	Spray Down Handle & Nozzle	
REF	901210A	2	Spray Down Nozzle	Included With Item 26
27	1016836	1	Spray Down Holder - Left	
28	1019122	1	Spray Down Holder - Right	
REF	R80106NR060006-144-AS-B-13-142.5	1	Push-Lok Hydraulic Hose Assembly, -6FJX/-00OPEN, 144"	Not Shown
REF	R8010639060606-15-AS-B-13-13.25	1	Push-Lok Hydraulic Hose Assembly, -6FJX/-6FJX90S, 15"	Not Shown
REF	R8010606060606-60-AS-B-13-58.25	1	Push-Lok Hydraulic Hose Assembly, -6FJX/-6FJX, 60"	Not Shown
REF	R8010606060606-80-AS-B-13-78.5	1	Push-Lok Hydraulic Hose Assembly, -6FJX/-6FJX, 80"	Not Shown

Illustrated Parts List

TOW POINT ASSEMBLY

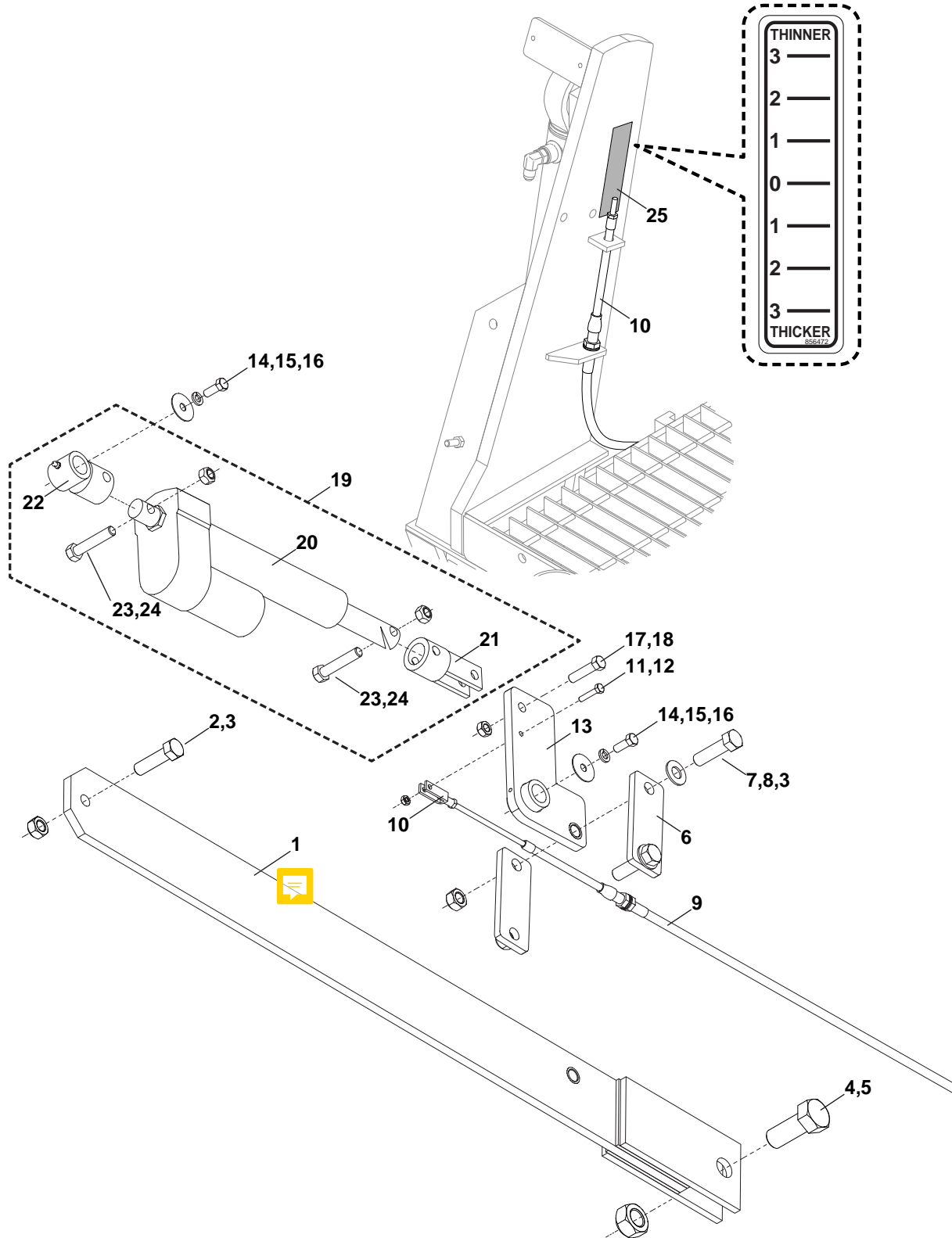


Figure 7-26. Tow Point Assembly

Tow Point Assembly

Item No	Part Number	Qty	Description	Remarks
1	851206	2	Screed Front Pull Arm	(1) Left, (1) Right
2	100-10-11-40-5	2	CSHH, 5/8-11 x 2.50, GR5	(1) Left, (1) Right
3	204-10-11-5	6	Nut, Lock, Stover, 5/8-11, GR5	(3) Left, (3) Right
4	100-16-8-40-5	2	CSHH, 1-8 x 2.50, GR5	(1) Left, (1) Right
5	204-16-8-5	2	Nut, Lock, Stover, 1-8, GR5	(1) Left, (1) Right
6	851210	4	Screed Pull Arm Pivot Ears	(2) Left, (2) Right
7	100-10-11-36-5	4	CSHH, 5/8-11 x 2.25, GR5	(2) Left, (2) Right
8	300-10	4	Washer, Flat, SAE, 5/8	(2) Left, (2) Right
9	851520	2	Push/Pull Cable, 90" x 5" Stroke	(1) Left, (1) Right
10	350050	2	Clevis, 1/4-28	(1) Left, (1) Right
11	100-4-20-20-5	2	CSHH, 1/4-20 x 1.25, GR5	(1) Left, (1) Right
12	204-4-20-5	2	Nut, Lock, Stover, 1/4-20, GR5	(1) Left, (1) Right
13	851209	2	Screed Pull Arm Pivot Mount	(1) Left, (1) Right
14	100-6-16-16-5F	4	CSHH, 3/8-16 x 1.00, GR5, FT	(2) Left, (2) Right
15	302-6	4	Washer, Lock, 3/8	(2) Left, (2) Right
16	308-6-24	4	Washer, Flat, Fender, 3/8 x 1.50	(2) Left, (2) Right
17	100-7-20-28-5	2	CSHH, 7/16-20 x 1.75, GR5	(1) Left, (1) Right
18	204-7-20-5	2	Nut, Lock, Stover, 7/16-20, GR5	(1) Left, (1) Right
19	853853L	1	Electric Screw Assembly - Left	Includes Items 20 - 24
REF	853853R	1	Electric Screw Assembly - Right	Not Shown, Includes Items 20 - 24
20	851518	2	Linear Actuator, 6.00, 12V	(1) Per Assembly
21	851211	2	Electric Screw Rod End Clevis	(1) Per Assembly
22	851212	2	Linear Actuator Rod Weldment	(1) Per Assembly
23	100-8-13-40-5	4	CSHH, 1/2-13 x 2.50, GR5	(2) Left, (2) Right
24	204-8-13-5	4	Nut, Lock, Stover, 1/2-13, GR5	(2) Left, (2) Right
25	856472	2	Decal - Thicker/Thinner	(1) Left, (1) Right

Illustrated Parts List

LOW DECK CONTROLS - LEFT (1 OF 2)

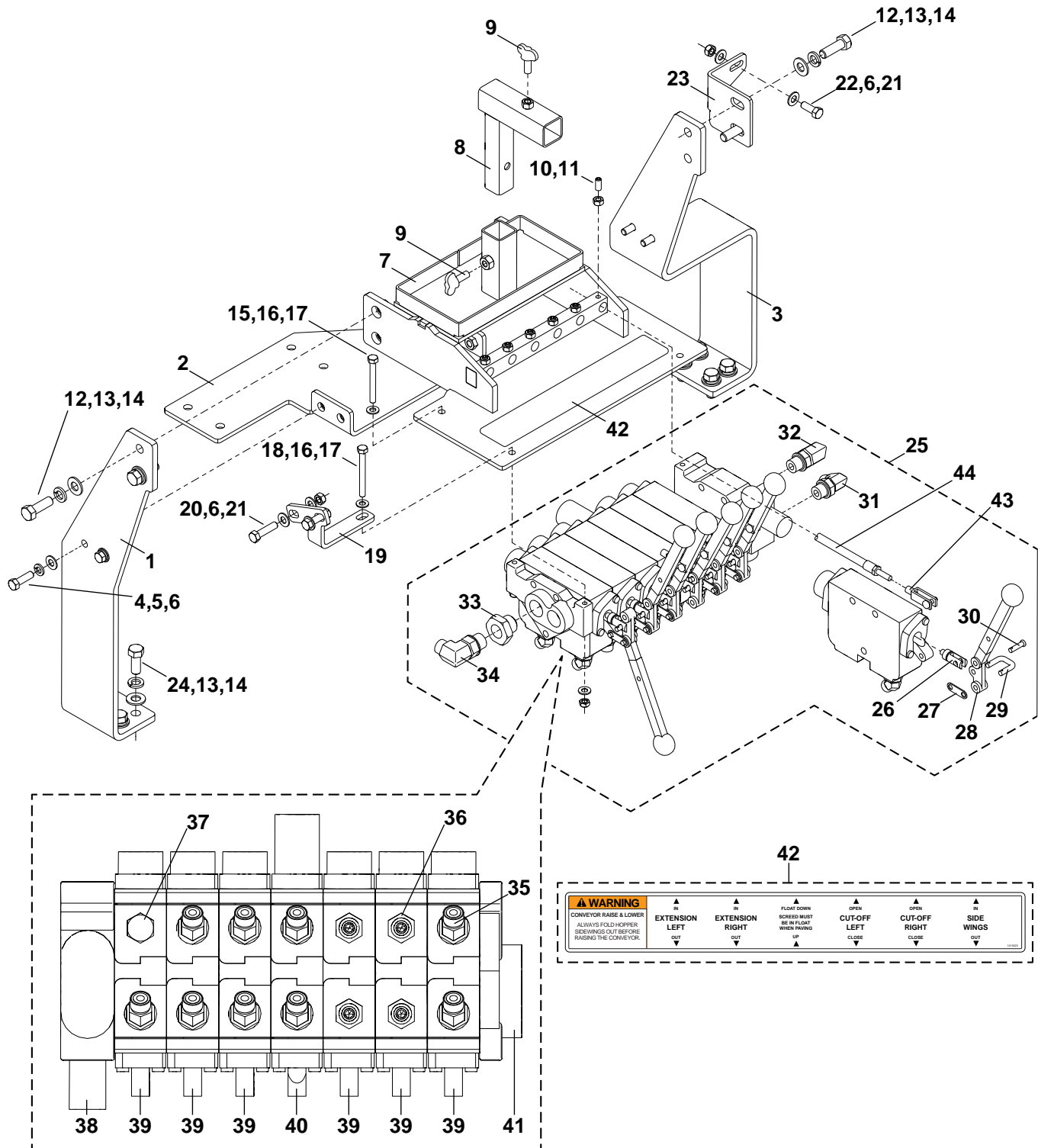


Figure 7-27. Low Deck Controls - Left (1 of 2)

Low Deck Controls - Left (1 of 2)

Item No	Part Number	Qty	Description	Remarks
REF	1018530	1	Low Deck Controls Mount Assembly- Left	Includes Items 1-6
1	1018531	1	Low Deck Controls Mount Plate - Left	
2	1019179	1	Low Deck Controls Mount Brace - Left	
3	1018532	1	Low Deck Controls Mount Plate - Right	
4	100-6-16-20-5	4	CSHH, 3/8-16 x 1.25, GR5	
5	302-6	4	Washer, Lock, 3/8	
6	300-6	8	Washer, Flat, SAE, 3/8	
7	1018521	1	7 Valve Mount	
8	1019386	1	Electronic Steer Tee	
9	920070	2	Thumb Screw, 3/8-16 x 1.00	
10	126-5-18-12	6	Set Screw, Hex Socket, Oval, 5/16-18 x .75	
11	200-5-18-5	6	Nut, Hex, 5/16-18, GR5	
12	100-8-13-24-5	4	CSHH, 1/2-13 x 1.50, GR5	
13	302-8	12	Washer, Lock, 1/2	
14	300-8	12	Washer, Flat, SAE, 1/2	
15	100-5-18-44-5	2	CSHH, 5/16-18 x 2.75, GR5	
16	300-5	6	Washer, Flat, SAE, 5/16	
17	204-5-18-5	3	Nut, Lock, Stover, 5/16-18, GR5	
18	100-5-18-48-5	1	CSHH, 5/16-18 x 3.00, GR5	
19	1019222	1	Low Deck Manual Valve Brace Plate	
20	100-6-16-24-5	2	CSHH, 3/8-16 x 1.50, GR5	
21	204-6-16-5	3	Nut, Lock, Stover, 3/8-16, GR5	
22	100-6-16-16-5F	1	CSHH, 3/8-16 x 1.00, GR5, FT	
23	1019221	1	Low Deck Radiator Duct Brace Plate	
24	100-8-13-20-5F	8	CSHH, 1/2-13 x 1.25, GR5, FT	
25	1018950	1	7 Section Valve Assembly w/Adapters	Includes Items 26-40
26	141060	7	Valve Spool Clevis	
27	901010	7	Valve Lever Link Assembly	
28	910060B	7	Vertical Handle	
29	350080	7	Clevis Pin, .250 x .875	
30	1017901	1	7 Section Valve Assembly w/Float	See Figure 7-31
31	FS6801-08-08-NWO-FG	1	Elbow Adapter, 90°, -8 ORFS/-8 O-Ring	
32	FS6801-10-08-NWO-FG	1	Elbow Adapter, 90°, -10 ORFS/-8 O-Ring	
33	FS6801-08-10-NWO-FG	1	Elbow Adapter, 90°, -8 ORFS/-10 O-Ring	
34	FS6802-06-08-NWO-FG	9	Elbow Adapter, 45°, -6 ORFS/-8 O-Ring	
35	FS6400-06-08-O	4	Straight Adapter, -6 ORFS/-8 O-Ring	
36	6408-8-O	1	Plug Adapter, -8 O-Ring	
37	910055	1	Inlet Cover, V-20	



Illustrated Parts List

LOW DECK CONTROLS - LEFT (2 OF 2)

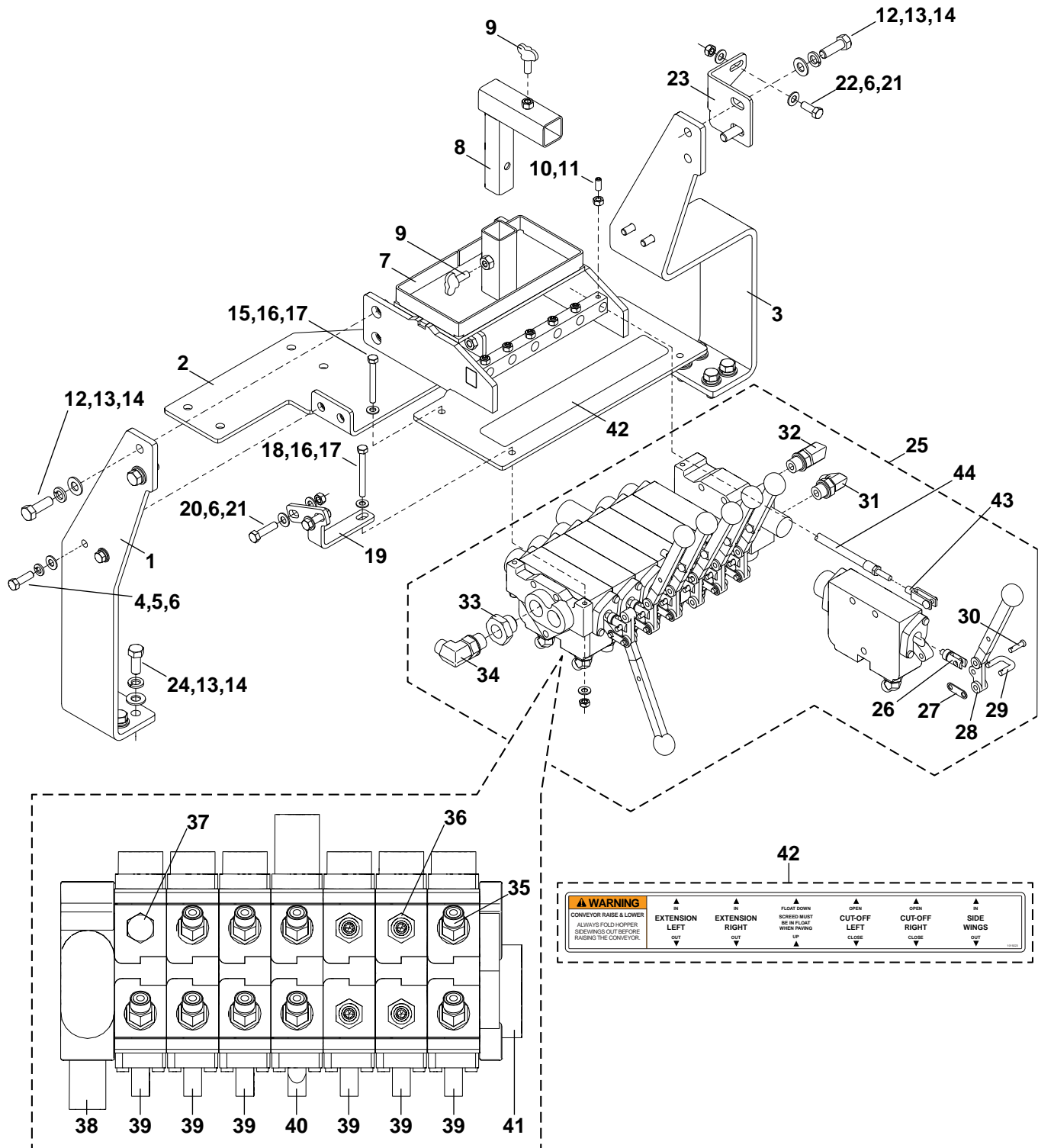


Figure 7-27. Low Deck Controls - Left (2 of 2)

Low Deck Controls - Left (2 of 2)

Item No	Part Number	Qty	Description	Remarks
38	910054	6	Valve Section	
39	1017901FLS	1	Electronic Valve Float Section	
40	910056	1	Outlet Cover, V-20	
41	1019223	1	Decal - Manual Controls, Left	
42	350050	5	Clevis, 1/4-28	
43	920136	5	Push/Pull Cable, 136", 3" Stroke	Not All Shown

Illustrated Parts List

LOW DECK CONTROLS - RIGHT

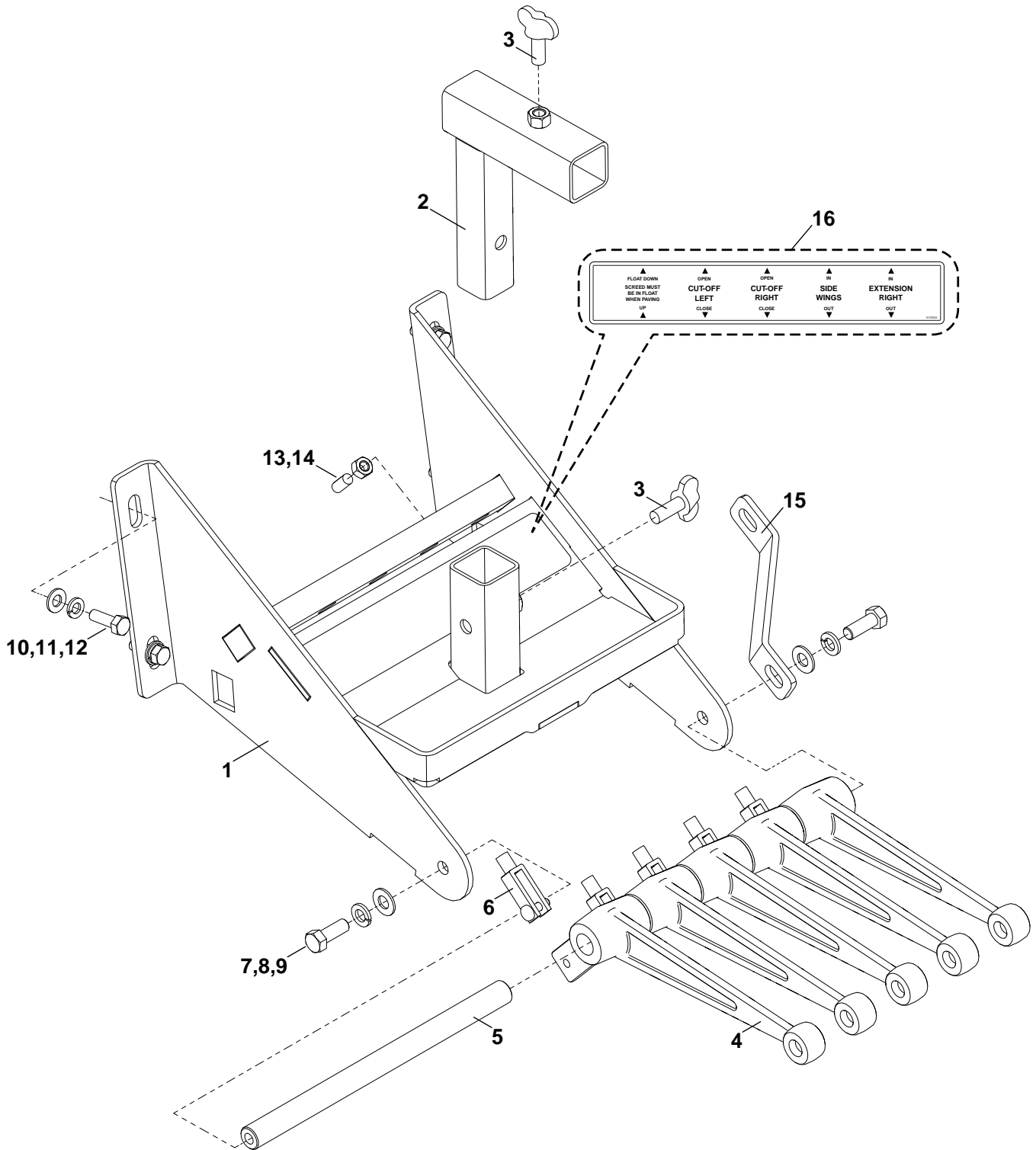


Figure 7-28. Low Deck Controls - Right

Low Deck Controls - Right

Item No	Part Number	Qty	Description	Remarks
REF	1018539	1	Low Deck Controls Assembly - Right	Includes Items 1-15
1	1018540	1	Low Deck Controls Weldment - Right	
2	1019386	1	Electronic Steer Tee	
3	920070	2	Thumb Screw, 3/8-16 x 1.00	
4	920210	5	Control Handle - Right	
5	1012776	1	Control Handle Pivot Rod	
6	350050	5	Clevis, 1/4-28	
7	100-6-24-16-5F	2	CSHH, 3/8-24 x 1.00, GR5, FT	
8	302-6	2	Washer, Lock, 3/8	
9	300-6	2	Washer, Flat, SAE, 3/8	
10	100-5-18-16-5	4	CSHH, 5/16-18 x 1.00, GR5	
11	302-5	4	Washer, Lock, 5/16	
12	300-5	4	Washer, Flat, SAE, 5/16	
13	126-5-18-12	5	Set Screw, Hex Socket, Oval, 5/16-18 x .75	
14	200-5-18-5	5	Nut, Hex, 5/16-18, GR5	
15	1019966	1	Low Deck Controls Brace - Right	
16	1019224	1	Decal - Manual Controls, Right	

Illustrated Parts List

HIGH DECK CONTROLS - LEFT (1 OF 2)

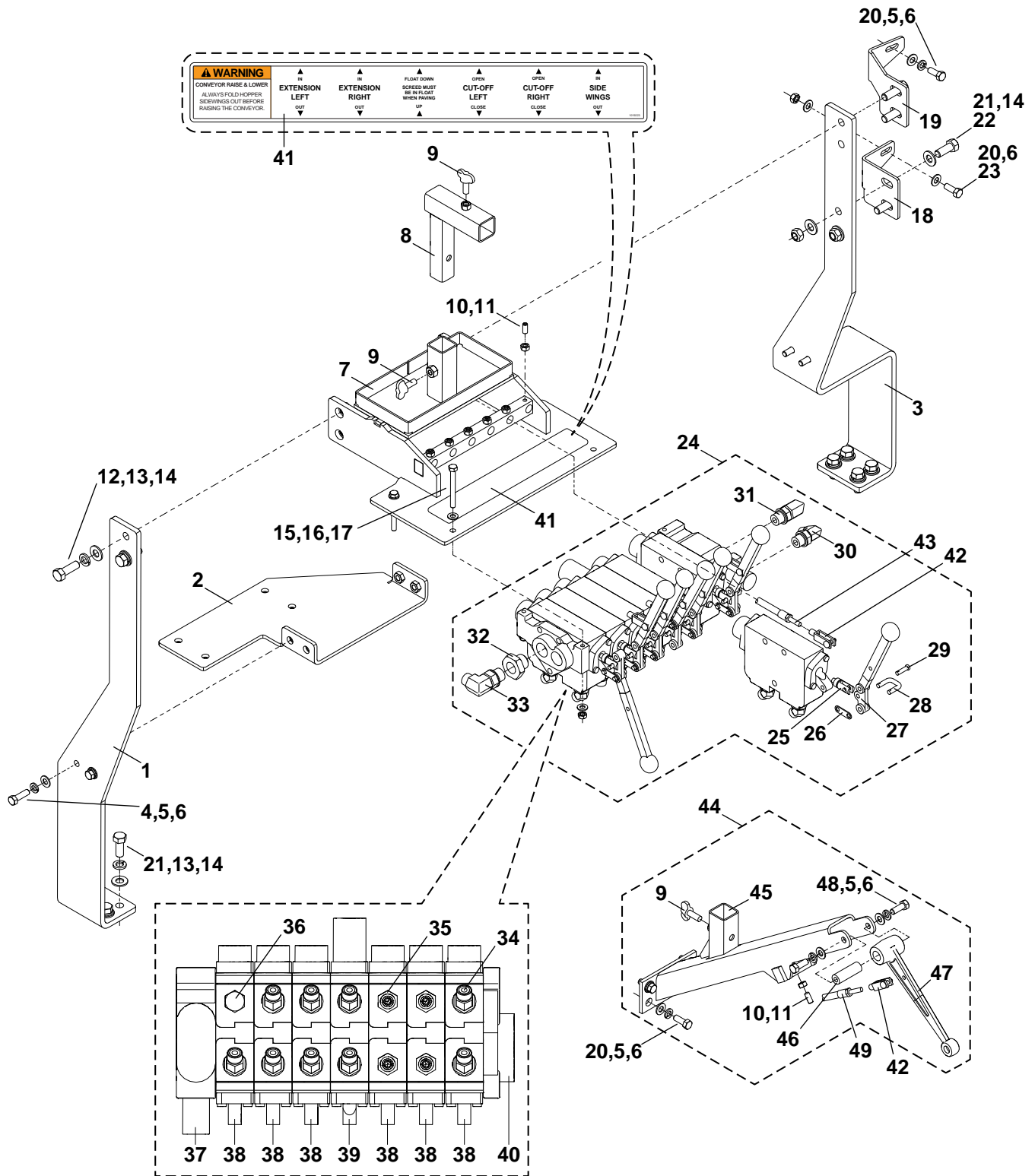


Figure 7-29. High Deck Controls - Left (1 of 2)

High Deck Controls - Left (1 of 2)

Item No	Part Number	Qty	Description	Remarks
REF	1018550	1	High Deck Controls Mount Assembly - Left	Includes Items 1-6
1	1018552	1	High Deck Controls Mount Plate - Left	
2	1019179	1	High Deck Controls Mount Brace - Left	
3	1018551	1	High Deck Controls Mount Plate - Right	
4	100-6-16-20-5	4	CSHH, 3/8-16 x1.25, GR5, FT	
5	302-6	11	Washer, Lock, 3/8	
6	300-6	12	Washer, Flat, SAE, 3/8	
7	1018521	1	7 Valve Mount	
8	1019386	1	Electronic Steer Tee	
9	920070	3	Thumb Screw, 3/8-16 x 1.00	
10	126-5-18-12	7	Set Screw, Hex Socket, Oval, 5/16-18 x .75	
11	200-5-18-5	7	Nut, Hex, 5/16-18, GR5	
12	100-8-13-24-5	4	CSHH, 1/2-13 x 1.50, GR5	
13	302-8	12	Washer, Lock, 1/2	
14	300-8	14	Washer, Flat, SAE, 1/2	
15	100-5-18-48-5	3	CSHH, 5/16-18 x 3.00, GR5	
16	300-5	6	Washer, Flat, SAE, 5/16	
17	204-5-18-5	3	Nut, Lock, Stover, 5/16-18, GR5	
18	1019221	1	Low Deck Radiator Duct Brace	
19	1019381	1	High Deck Manual Valve Brace	
20	100-6-16-16-5F	6	CSHH, 3/8-16 x 1.00, GR5, FT	
21	100-8-13-20-5F	10	CSHH, 1/2-13 x 1.25, GR5, FT	
22	204-8-13-5	2	Nut, Lock, Stover, 1/2-13, GR5	
23	204-6-16-5	1	Nut, Lock, Stover, 3/8-16, GR5	
24	1018950	1	7 Section Valve Assembly w/Adapters	Includes Items 24-39
25	141060	7	Valve Spool Clevis	
26	901010	7	Valve Lever Link Assembly	
27	910060B	7	Vertical Handle	
28	350080	7	Clevis Pin, .250 x .875	
29	1017901	1	7 Section Valve Assembly w/Float	See Figure 7-31
30	FS6801-08-08-NWO-FG	1	Elbow Adapter, 90°, -8 ORFS/-8 O-Ring	
31	FS6801-10-08-NWO-FG	1	Elbow Adapter, 90°, -10 ORFS/-8 O-Ring	
32	FS6801-08-10-NWO-FG	1	Elbow Adapter, 90°, -8 ORFS/-10 O-Ring	
33	FS6802-06-08-NWO-FG	9	Elbow Adapter, 45°, -6 ORFS/-8 O-Ring	
34	FS6400-06-08-O	4	Straight Adapter, -6 ORFS/-8 O-Ring	
35	6408-8-O	1	Plug Adapter, -8 O-Ring	
36	910055	1	Inlet Cover, V-20	
37	910054	6	Valve Section	



Illustrated Parts List

HIGH DECK CONTROLS - LEFT (2 OF 2)

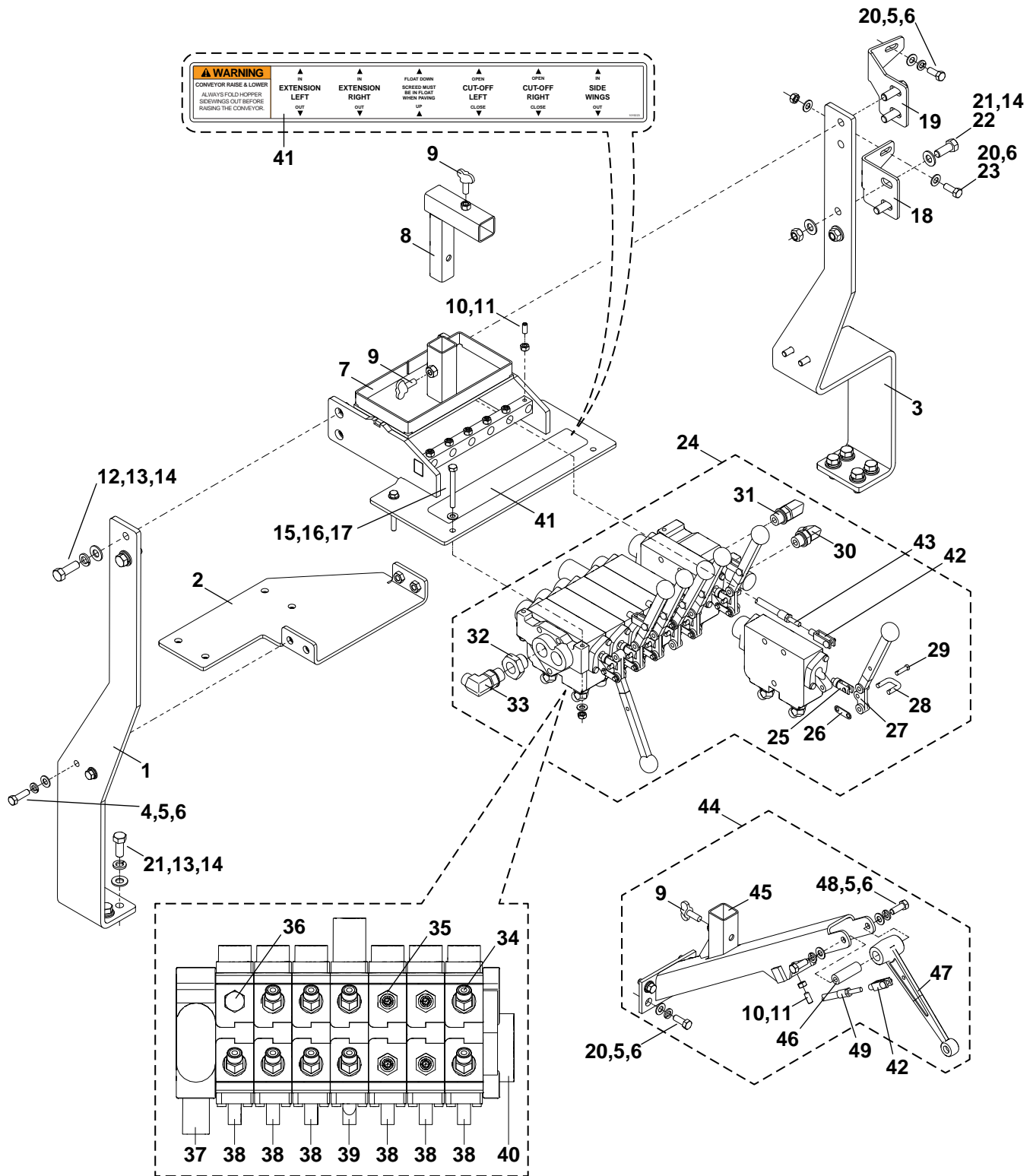


Figure 7-29. High Deck Controls - Left (2 of 2)

High Deck Controls - Left (2 of 2)

Item No	Part Number	Qty	Description	Remarks
38	1017901FLS	1	Electronic Valve Float Section	
39	910056	1	Outlet Cover, V-20	
40	1019223	1	Decal - Manual Controls, Left	
41	350050	7	Clevis, 1/4-28	
42	920136	5	Push/Pull Cable, 136" x 3" Stroke	Not All Shown
43	1018562	1	Lower Control Assembly	Includes Items 5,6,45-48
44	1018563	1	Lower Control Weldment	
45	1018568	1	Lower Control Handle Pivot Bar	
46	920210A	1	Control Handle	
47	100-6-24-16-5F	2	CSHH, 3/8-24 x 1.00, GR5, FT	
48	920120	1	Push/Pull Cable, 104" x 3" Stroke	

Illustrated Parts List

HIGH DECK CONTROLS - RIGHT

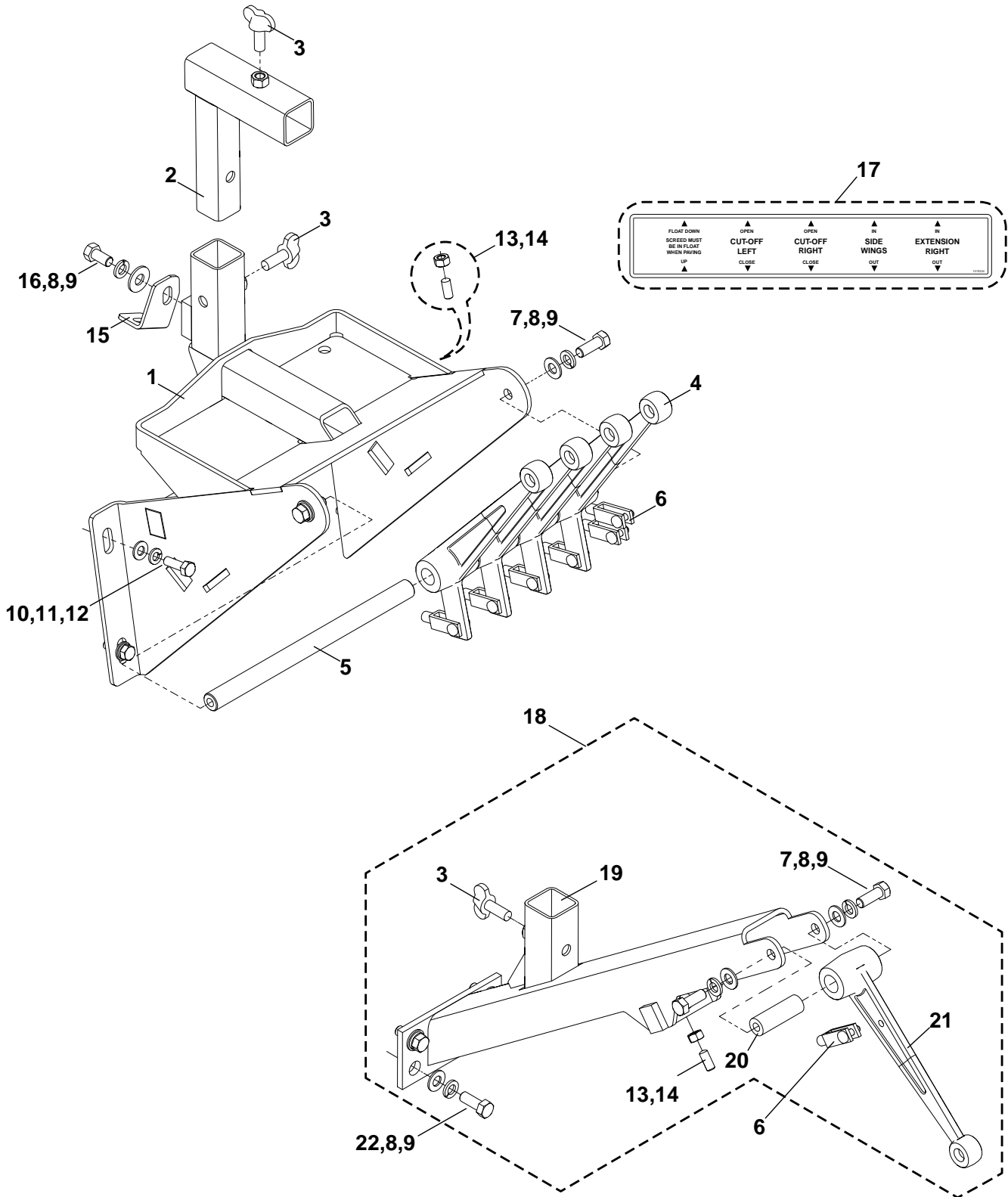


Figure 7-30. High Deck Controls - Left (1 of 2)

High Deck Controls - Right

Item No	Part Number	Qty	Description	Remarks
REF	1018555	1	High Deck Controls Assembly - Right	Includes Items 1-9
1	1018556	1	High Deck Controls Weldment - Right	
2	1019386	1	Electronic Steer Tee	
3	920070	3	Thumb Screw, 3/8-16 x 1.00	
4	920210	4	Control Handle - Right	
5	1012776	1	Control Handle Pivot Rod - Right	
6	350050	7	Clevis, 1/4-28	
7	100-6-24-16-5F	4	CSHH, 3/8-24 x 1.00, GR5, FT	
8	302-6	9	Washer, Lock, 3/8	
9	300-6	9	Washer, Flat, SAE, 3/8	
10	100-5-18-16-5	4	CSHH, 5/16-18 x 1.00, GR5, FT	
11	302-5	4	Washer, Lock, 5/16	
12	300-5	4	Washer, Flat, SAE, 5/16	
13	126-5-16-12	7	Set Screw, Hex Socket, Oval, 5/16-18 x .75	
14	200-5-18-5	7	Nut, Hex, 5/16-18, GR5	
15	1019939	1	High Deck Controls Brace - Right	
16	100-6-24-12-5F	1	CSHH, 3/8-24 x .75, GR5, FT	
17	1019224	1	Decal - Manual Controls, Right	
18	1018562	1	Lower Control Assembly	Includes Items 7-9,19-21
19	1018563	1	Lower Control Weldment	
20	1018568	1	Lower Control Handle Pivot Bar	
21	920210A	1	Control Handle	
22	100-6-16-16-5F	4	CSHH, 3/8-16 x 1.00, GR5, FT	

Illustrated Parts List

CONTROL VALVE DETAILS

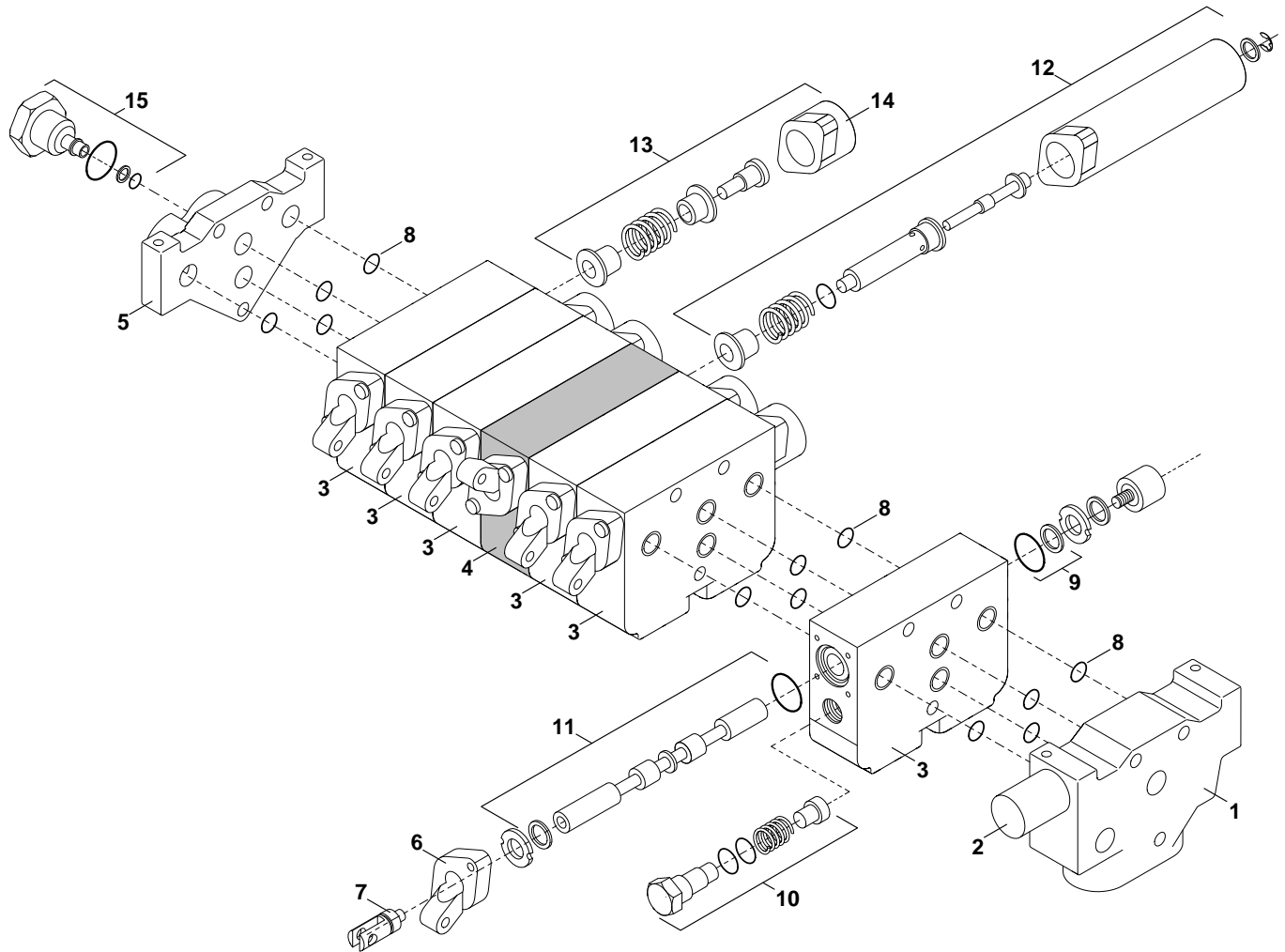


Figure 7-31. Control Valve Details

Control Valve Details

Item No	Part Number	Qty	Description	Remarks
REF	1017901	1	Valve Assembly, 7 Section w.Float	<i>*Some items not shown for clarity</i>
1	910055	1	Valve Inlet Cover w/Relief Valve	
2	901009	1	Main Relief Valve	
3	910054	6	Spring Return Valve Section	
4	1017901FLS	1	Float Valve Section	
5	910056	1	Valve Outle Cover w/PB Sleeve	
6	910058	A/R	Valve Lever Mounting Bracket	
7	141060	A/R	Valve Spool End Clevis	
8	910062	A/R	Valve Section Seal Kit	
9	910059	A/R	Valve Spool Seal Kit	
10	141020	A/R	Anit-Cavitation Valve & Plug	
11	141050	1	Float Positioner Kit	
12	1017901FLS	A/R	Valve Spring Center Kit	
13	141040	A/R	Valve Spool End Spring Cap	
14	901002	1	Power Beyond Sleeve	
REF	910052	A/R	Detented Valve Section	Not Shown
REF	901007	A/R	Valve Spool Detent Kit	Not Shown
REF	910065	A/R	Relief Valve Seal Kit	Not Shown

Illustrated Parts List

JOYSTICK CONTROLS

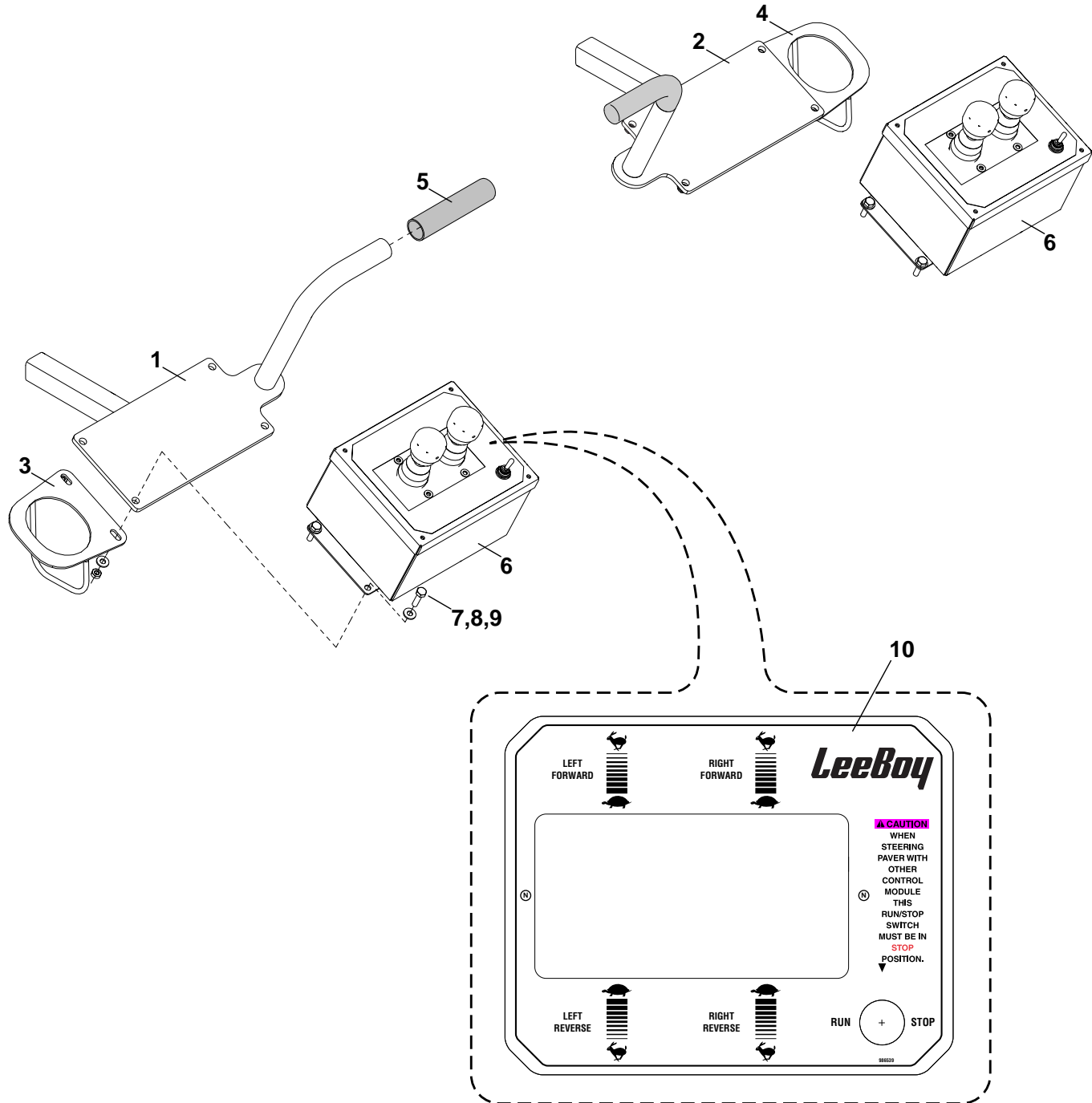


Figure 7-32. Joystick Controls

Joystick Controls

Item No	Part Number	Qty	Description	Remarks
GRP	1019211		Group - Dual Joystick	
1	853836	1	Steer Box Mount - Left	
2	853836L	1	Steer Box Mount - Right	
3	1002546SRV	1	Cup Holder - Left	
4	1002547SRV	1	Cup Holder - Right	
5	490010	2	Hand Grip	
6	1016272SRV	2	Dual Joystick Control Box	
7	100-4-20-16-5F	8	CSHH, 1/4-20 x 1.00, GR5, FT	
8	300-4	16	Washer, Flat, SAE, 1/4	
9	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
10	986539	2	Decal - Operation, Dual Joystick	

Illustrated Parts List

CONTROL BOX SLIDE ASSEMBLY

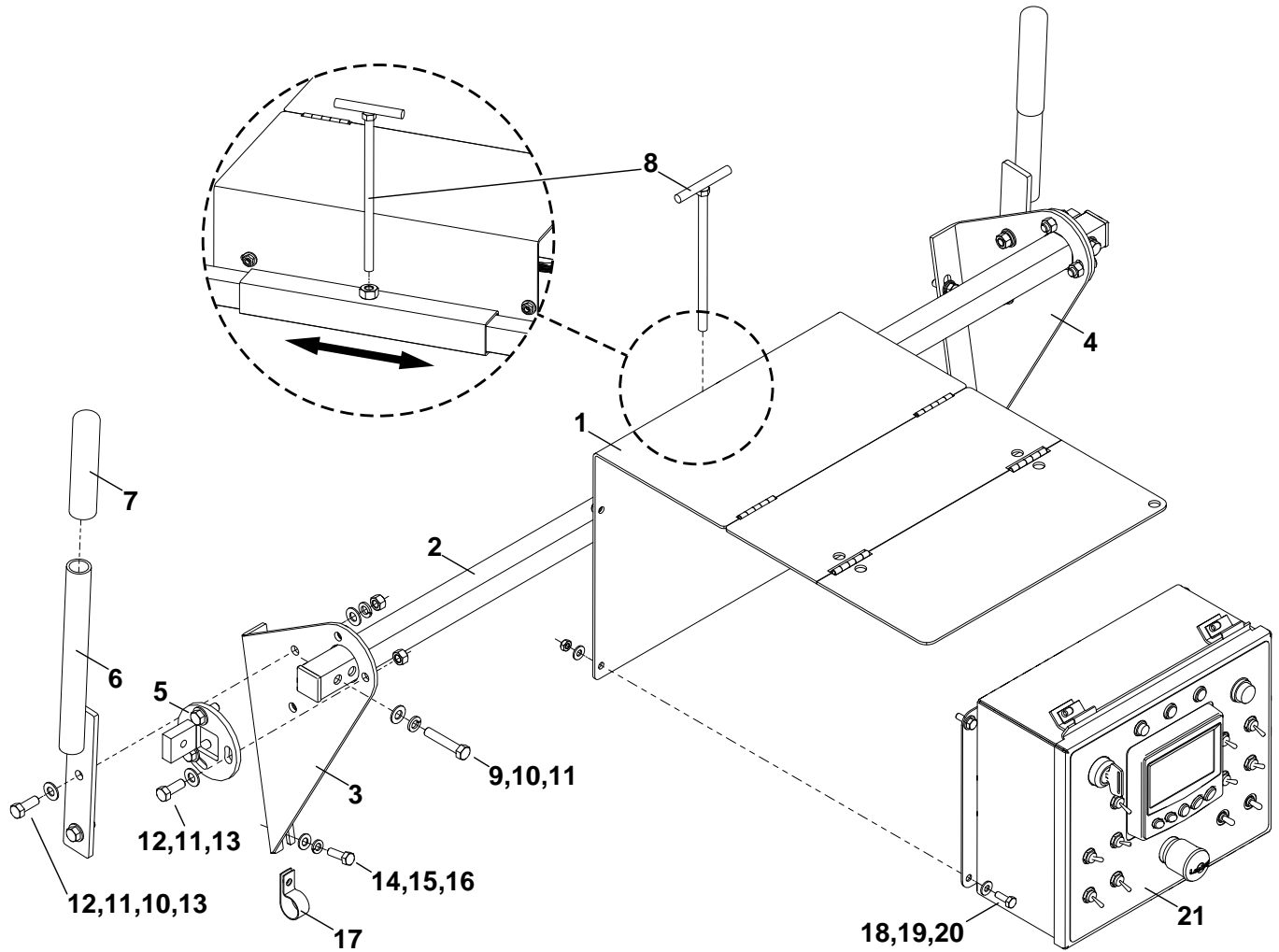


Figure 7-33. Control Box Slide Assembly

Control Box Slide Assembly

Item No	Part Number	Qty	Description	Remarks
REF	1018547	1	Control Box Slide Assembly	Includes Items 1-13
1	1010133	1	Vandalism Cover Assembly	
2	853922	1	Vandalism Lock Tee Handle - 7"	Included With Item 1
3	1014776	1	Control Box Slide Tube Assembly	
4	1014814	1	Support Arm Plate - Left	
5	1014815	1	Support Arm Plate - Right	
6	1014810	2	Slide Tube Angle Adjuster	
7	1014898	2	Grab Handle	
8	490010	2	Hand Grip	
9	100-6-24-32-5	2	CSHH, 3/8-24 x 2.00, GR5	
10	302-6	6	Washer, Lock, 3/8	
11	300-6	16	Washer, Flat, SAE, 3/8	
12	100-6-16-16-5F	10	CSHH, 3/8-16 x 1.00, GR5, FT	
13	200-6-16-5	10	Nut, Hex, 3/8-16, GR5	
14	100-5-18-16-5	4	CSHH, 5/16-18 x 1.00, GR5	
15	302-5	4	Washer, Lock, 5/16	
16	300-5	4	Washer, Flat, SAE, 5/16	
17	871111609	2	Insulated Clamp	
18	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	
19	300-4	8	Washer, Flat, SAE, 1/4	
20	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	
21	1018792	1	Control Box Assembly	

Illustrated Parts List

CONTROL BOX ASSEMBLY (1 OF 2)

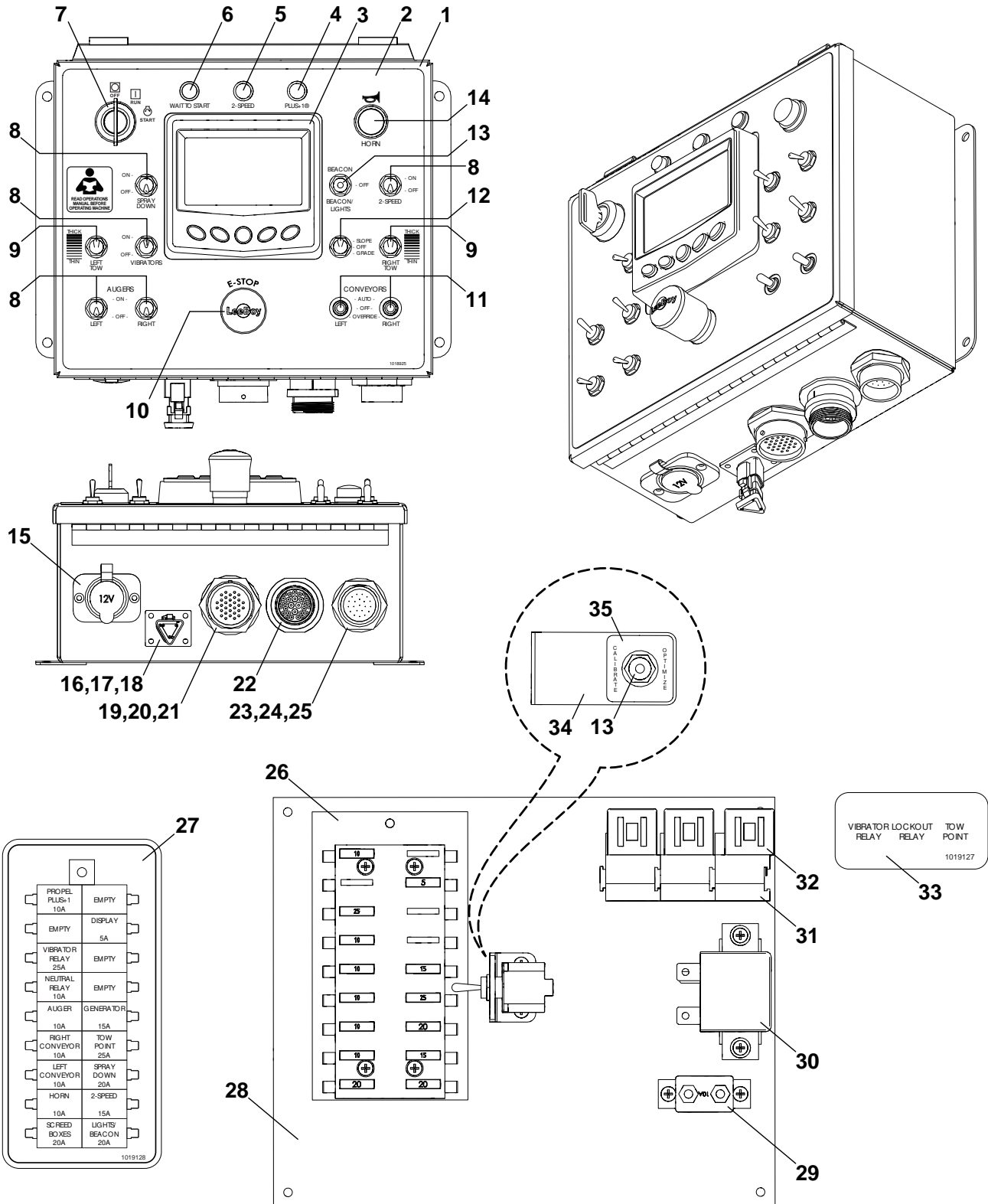


Figure 7-34. Control Box Assembly (1 of 2)

Control Box Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
REF	1018792	1	Control Box Assembly	
1	1002086	1	Electrical Enclosure	
2	1018925	1	Decal - Operation, Control Panel	
3	1016158	1	PV480 Display, V3874 T4F	
4	31985	1	Dash Light - Green	
5	31986	1	Dash Light - Blue	
6	1010500	1	Dash Light - White	
7	39146-14	1	Ignition Switch	
REF	982008-04	1	Ignition Key, Replacement	
8	851391	5	Toggle Switch, SPST, 2-POS	
9	37521	2	Toggle Switch, DPDT, 3-POS, MOM	
10	1010672	1	Emergency Stop Switch, 1-NC	
11	900030	2	Toggle Switch	
12	851390	1	Toggle Switch, DPDT, 3-POS	
13	851090613	2	Toggle Switch, SPDT, 3-POS	
14	982249	1	Push Button Switch	
15	1011147	1	12V Receptacle	
16	989179	1	Plug Connector, 03-Pin	
17	1010657	1	Panel Mount Connector, 03-Pin	
18	983211	1	Wedgelock Connector, W3P Deutsch	
19	981916	1	Receptacle Connector, 31-Pin, HD34-24-31	
20	981916-01	1	Connector Nut, 24 Shell	
21	981916-02	1	Connector, Lockwasher, 24 Shell	
22	1011851	1	Receptacle Connector, 29-Pin, Deutsch	
23	1002564	1	Receptacle Connector, 21-Pin, HDP24-18-21	
24	1002564-02	1	Connector Nut, 18 Shell	
25	1002564-03	1	Connector, Lockwasher, 18 Shell	
26	685060	1	Fuse Block, 18 Gang, ATC	
REF	36746	1	Fuse, 5A, ATC	
REF	36340	6	Fuse, 10A, ATC	
REF	36341	2	Fuse, 15A, ATC	
REF	36342	3	Fuse, 20A, ATC	
REF	37303	2	Fuse, 25A, ATC	
27	1019128	1	Decal - Fuse Diagram	
28	1019005	1	Enclosure Panel	
29	986546	1	Circuit Breaker, 10A	
30	20934592	1	Relay, 75A, SPST	
31	36086	3	Relay Mounting Bracket	

Illustrated Parts List

CONTROL BOX ASSEMBLY (2 OF 2)

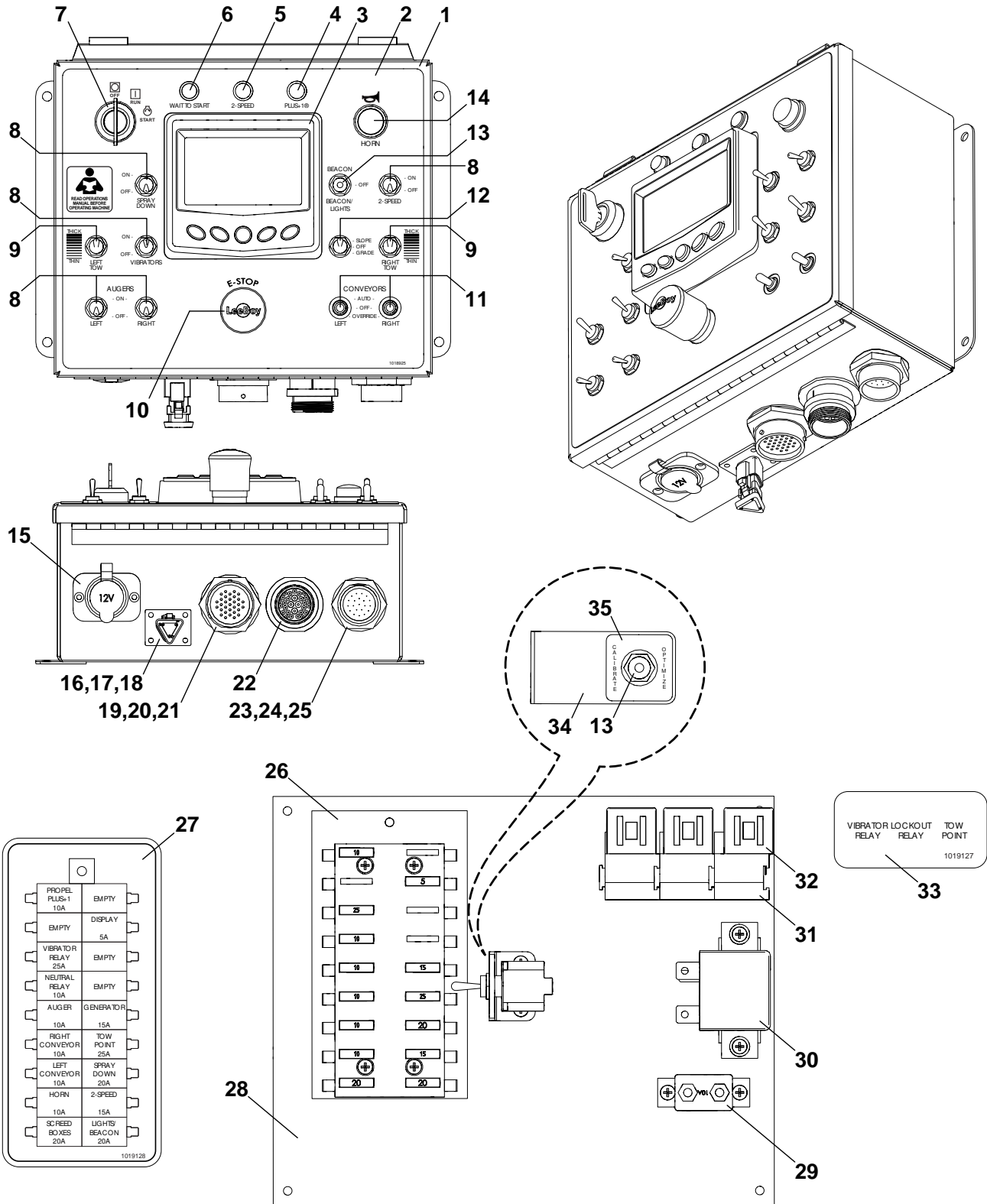


Figure 7-34. Control Box Assembly (2 of 2)

Control Box Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
32	36085	3	Relay, 12VDC, SPDT, 40A, 5-Pin	
33	1019127	1	Decal - Relay Diagram	
34	1016260	1	Toggle Switch Mounting Bracket	
35	1016261	1	Decal - Operation, Calibrate	
REF	1018805	1	Main Harness	Not Shown
REF	1016536	1	Lower Manifold Harness	Not Shown
REF	1019514	1	Hydraulic Oil Cooler Harness	Not Shown
REF	1016724	1	Bulkhead to Generator Harness	Not Shown
REF	1014667	1	Plus One Harness	Not Shown
REF	1017774	1	Temperature Control Harness	Not Shown
REF	1008877	1	Heater Element Jumper Harness	Not Shown
REF	1019020	1	Screed Lock Harness	Not Shown

Illustrated Parts List

SEAT ASSEMBLY & DETAILS

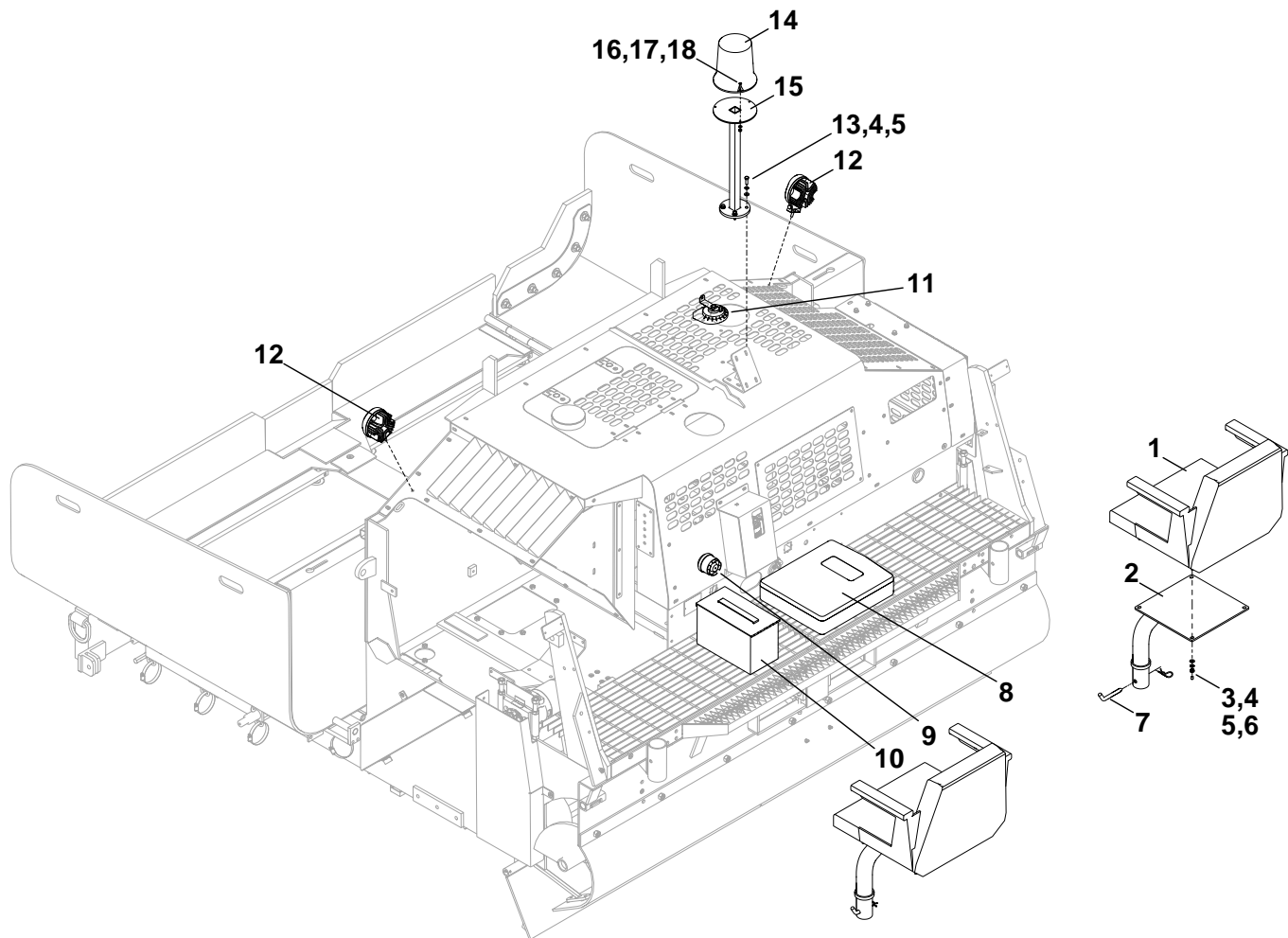


Figure 7-35. Seat Assembly & Details

Seat Assembly & Details

Item No	Part Number	Qty	Description	Remarks
REF	1016967	1	Seat Assembly, Short Post	Includes Items 1-6
1	360010	2	White Seat Assembly w/Armrest	
2	988640SRV	2	Seat Post Assembly - Short	
3	200-5-18-5	12	Nut, Hex, 5/16-18, GR5	
4	302-5	16	Washer, Lock, 5/16	
5	300-5	16	Washer, Flat, SAE, 5/16	
6	984862	8	Vinyl Cap - Black	
7	72836	2	Pin, 1/2 x 3.00 w/Cotter Pin	
8	160320	1	Back Up Alarm, 107 dB	
9	853963	1	Tool Box	
10	20190773	1	Horn, Low Pitch	
11	1013307	4	Circular LED Light w/Deutsch	
12	100-5-18-16-5	4	CSHH, 5/16-18 x 1.00, GR5	
13	1018435	1	Beacon Light Assembly	Includes Items 14-18
REF	1013231	1	Beacon Light, LED Amber Strobe	
14	1018434	4	Beacon Light Mount	
15	122-#10-24-12F	3	PHMS, Cross, #10-24 x .75, FT	
16	300-#10	3	Washer, Flat, SAE, #10	
17	205-#10-24-5	3	Nut, Lock, Nylon, #10-24, GR5	
18	985234-01	1	Manual Case	Mounted on Screed
19	1016514	1	Tool Tray Assembly	Mounted on Screed
20	100-6-16-28-5	2	CSHH, 3/8-16 x 1.75, GR5	Mounted on Screed
21	300-6	4	Washer, Flat, SAE, 3/8	Mounted on Screed
22	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	Mounted on Screed
23	100-4-20-16-5	4	CSHH, 1/4-20 x 1.00, GR5	Mounted on Screed
24	300-4	8	Washer, Flat, SAE, 1/4	Mounted on Screed
25	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	Mounted on Screed

Illustrated Parts List

OPTION - LEGEND LP SCREED OVERVIEW

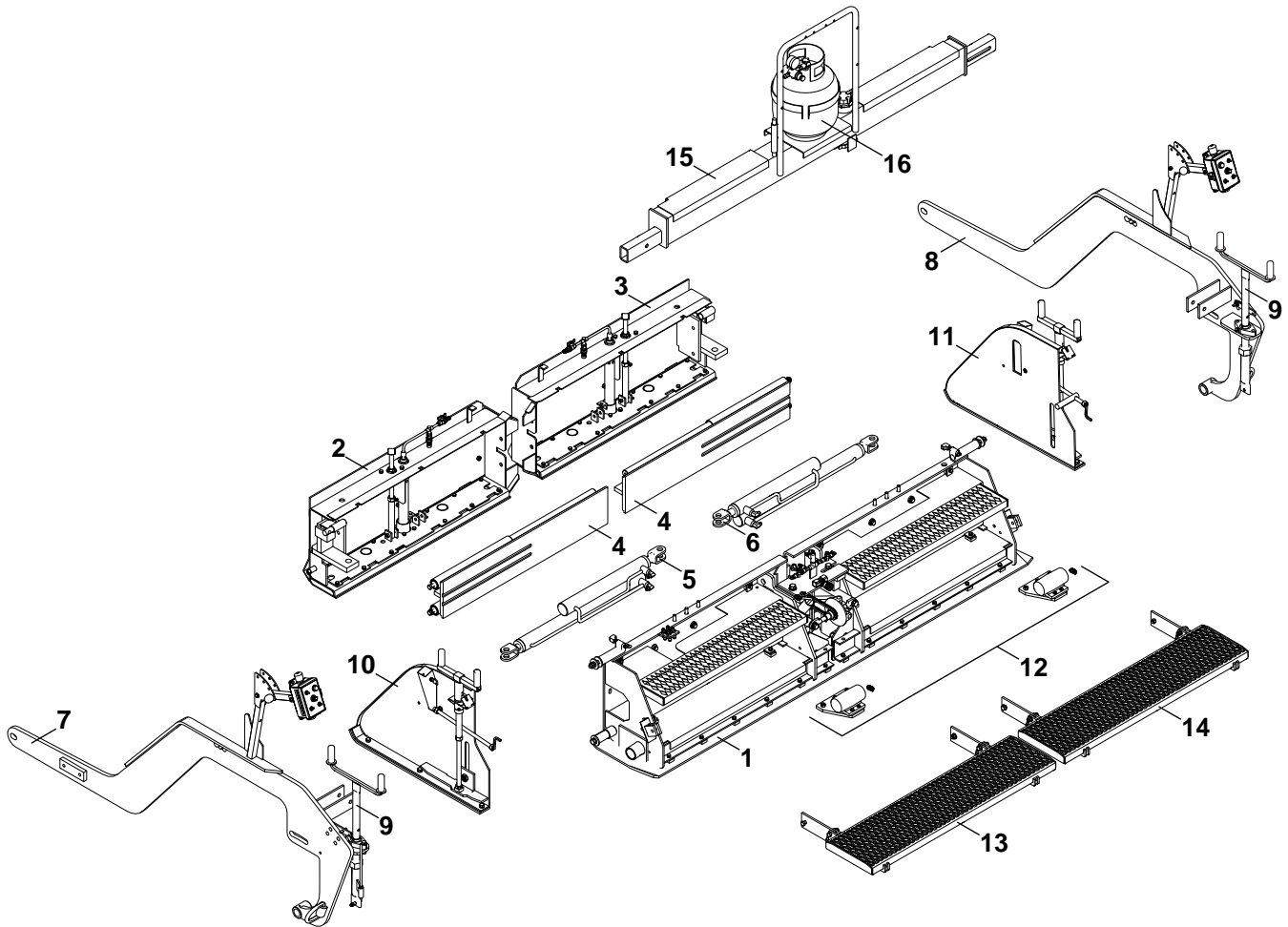


Figure 7-36. Option - Legend LP Screed Overview

Option - Legend LP Screed Overview

Item No	Reference Figure	Description	Remarks
1	7-36	Legend LP Screed Frame Assembly	
2	7-37	Legend LP Screed Extension Assembly - Left	
3	7-37	Legend LP Screed Extension Assembly - Right	
4	7-39	Screed Slide Plate Assemblies	
5	7-36	Hydraulic Cylinder - Left	
6	7-36	Hydraulic Cylinder - Right	
7	7-40	Screed Pull Arm Assembly - Left	
8	7-40	Screed Pull Arm Assembly - Right	
9	7-40	Screed Thickness Adjuster - Standard	
10	7-41	Screed Endgate Assembly, Standard- Left	
11	7-42	Screed Endgate Assembly, Standard - Right	
12	7-43	Screed Vibrator Assembly	
13	7-43	Grip Strut Walkboard Assembly - Left	
14	7-43	Grip Strut Walkboard Assembly - Right	
-	7-43	Walkboard Assembly - Option	Not Shown
15	7-43	Citrus Tank Assembly	
16	7-38	LP Heater System	

Illustrated Parts List

OPTION - LEGEND LP SCREED FRAME

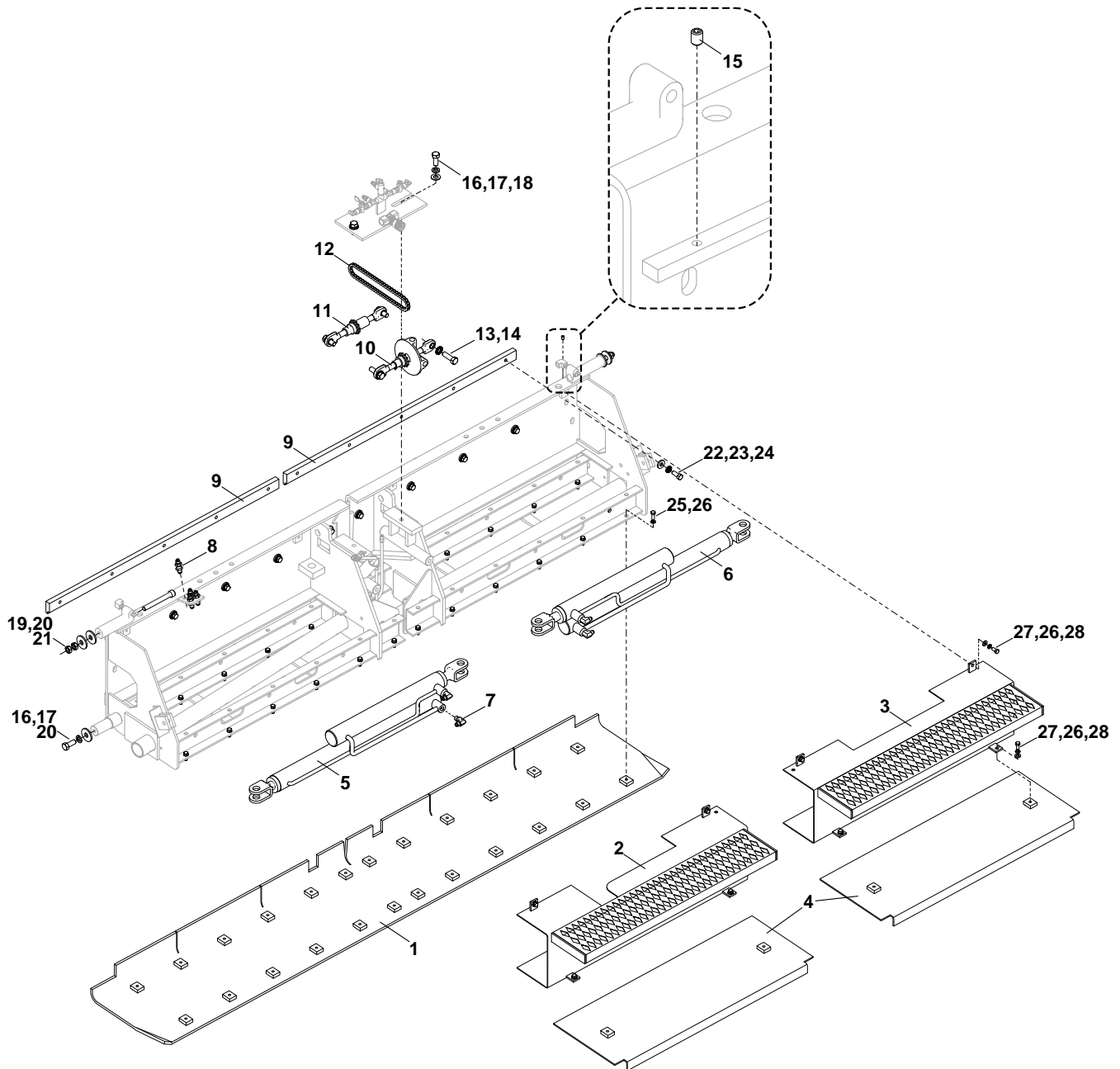


Figure 7-37. Option - Legend LP Screed Frame

Option - Legend LP Screed Frame

Item No	Part Number	Qty	Description	Remarks
1	981724SRV	1	Bull Nose Wear Plate, 8"	
2	851204SRV	1	Screed Cover, Extension Cylinder - Left	
3	851203SRV	1	Screed Cover, Extension Cylinder - Right	
4	1018680	2	Heat Box Cover	
REF	1018709	1	Hydraulic Cylinder Assembly - Left	Includes Items 5,7
REF	1018710	1	Hydraulic Cylinder Assembly - Right	Includes Items 6,7
5	851191	1	Hydraulic Cylinder, 2.00 x 12.00/30.00 x 1.25 - Left	
6	851192	1	Hydraulic Cylinder, 2.00 x 12.00/30.00 x 1.25 - Right	
7	2501-6-6	4	Elbow Adapter, 90°, -6 JIC / -6 NPTF	
8	2700-10-10-LN	4	Bulkhead Union Adapter, -10 JIC / -10 JIC	
9	855784	2	Screed Extension Toprail	
REF	1004951	1	Goup - Manual Crown	Includes Items 10-14
10	870182	1	Crown & Valley Assembly, Rear	
11	870172	1	Crown & Valley Assembly, Front	
12	870190	1	Roller Chain, 40 x 52 Pitch	
13	100-10-11-32-5	4	CSHH, 5/8-11 x 2.00, GR5	
14	986811	4	Washer, Lock, .670 Nord Wedge	
15	80305	10	Set Screw, 3/8-16 x .50, HSKT	
16	100-10-11-24-5F	4	CSHH, 5/8-11 x 1.50, GR5, FT	
17	302-10	2	Washer, Lock, 5/8	
18	300-10	2	Washer, Flat, SAE, 5/8	
19	202-10-11-5	4	Nut, Hex, Jam, 5/8-11, Gr5	
20	855507	6	Pivot Guide Spacer	
21	102-10-11-80	2	CSSH, 5/8-11 x 5.00	
22	100-8-13-20-5F	10	CSHH, 1/2-13 x 1.25, GR5, FT	
23	986810	10	Washer, Lock, .500 Nord Wedge	
24	309-8-20-3	10	Washer, Thick, 1/2 x 1.25 x .188	
25	100-6-24-16-5F	A/R	CSHH, 3/8-24 x 1.00, GR5, FT	
26	302-6	A/R	Washer, Lock, 3/8	
27	100-6-24-12-5F	8	CSHH, 3/8-24 x .75, GR5, FT	
28	300-6	8	Washer, Flat, SAE, 3/8	

Illustrated Parts List

OPTION - LEGEND LP SCREED EXTENSIONS

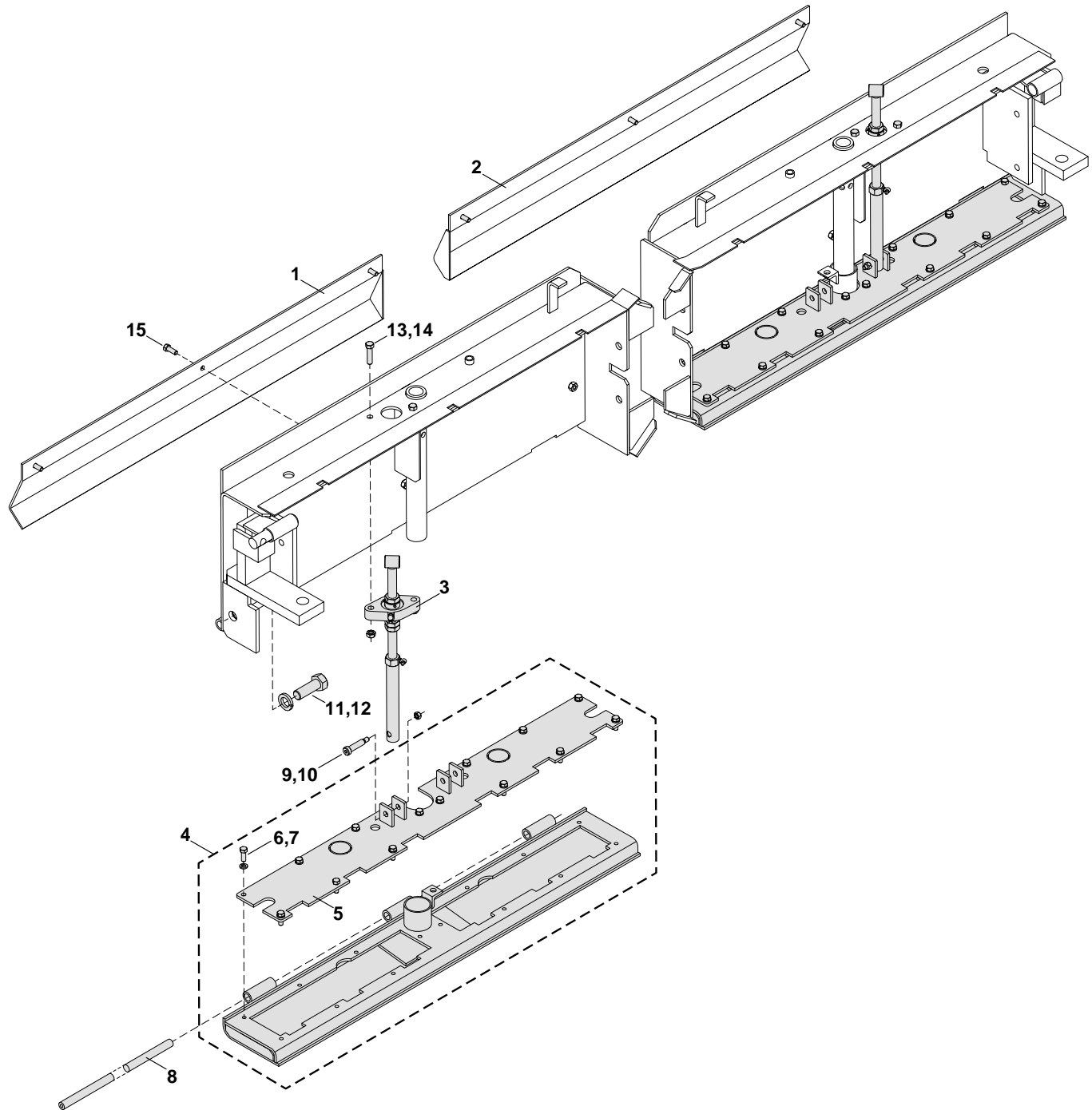


Figure 7-38. Option - Legend LP Screed Extensions

Option - Legend LP Screed Extensions

Item No	Part Number	Qty	Description	Remarks
REF	859394SRV	1	LP Screed Extension Assembly - Left	Includes Items 1,3-16
REF	859395SRV	1	LP Screed Extension Assembly - Right	Includes Items 2,3-16
1	851180LSRV	1	Screed Extension Guard - Left	
2	851180RSRV	1	Screed Extension Guard - Right	
3	851185SRV	2	Extension Adjuster Assembly	(1) Per Assembly
4	851182SRV	2	LP Screed Extension Heatbox Assembly	(1) Per Assembly
5	988291SRV	2	Screed Heatbox Cover Assembly - Single Adjust	(1) Per Assembly
6	100-6-24-16-5F	20	CSHH, 3/8-24 x 1.00, GR5, FT	(10) Per Assembly
7	302-6	20	Washer, Lock, 3/8	(10) Per Assembly
8	854447SRV	2	Shaft, ϕ .688 x 43.50	(1) Per Assembly
9	118-8-32-3/8x1	2	Shoulder Bolt, 1/2 x 2L, 3/8-16 x 1.00	(1) Per Assembly
10	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	(1) Per Assembly
11	100-14-9-40-5	2	CSHH, 7/8-9 x 2.50, GR5	(1) Per Assembly
12	302-15	2	Washer, Lock, 15/16	(1) Per Assembly
13	100-7-14-28-5	4	CSHH, 7/16-14 x 1.75, GR5	(2) Per Assembly
14	204-7-14-5	4	Nut, Lock, Stover, 7/16-14, GR5	(2) Per Assembly
15	100-6-16-16-5F	6	CSHH, 3/8-16 x 1.00, GR5, FT	(3) Per Assembly

Option - Legend LP Screed Heater Assembly

Item No	Part Number	Qty	Description	Remarks
1	230010	1	LPG Tank, 20 Lb.	
2	982515	1	LPG Regulator, 0-60 PSI	Includes 3,4
3	230110	1	LPG Pressure Gauge	
4	1019014	9	Elbow Adapter, 90°, -4 MNPTF "B"/9/16-18 LH LP Gas	
5	1008654SRV	2	Burner Wand Assembly, ST4PQV	
6	851183	2	Quick Disconnect, 1/4" Male	
7	982504	2	Burner Wand Assembly, ST5 Igniter	
8	230240	2	Hose Clamp, #28 (2-1/8")	
9	1008653SRV	1	Burner Wand Assembly, ST4PWV	
10	1019016	1	Block Manifold, 7 Port, 1/4" NPTF	
11	1008544	2	Petcock Valve, 1/4" NPT x 1/4" NPT, LP Gas	
12	1019015	2	Elbow Adapter, 45°, -4 MNPTF "B"/9/16-18 LH, LP Gas	

Illustrated Parts List

OPTION - LEGEND SCREED SLIDE PLATES

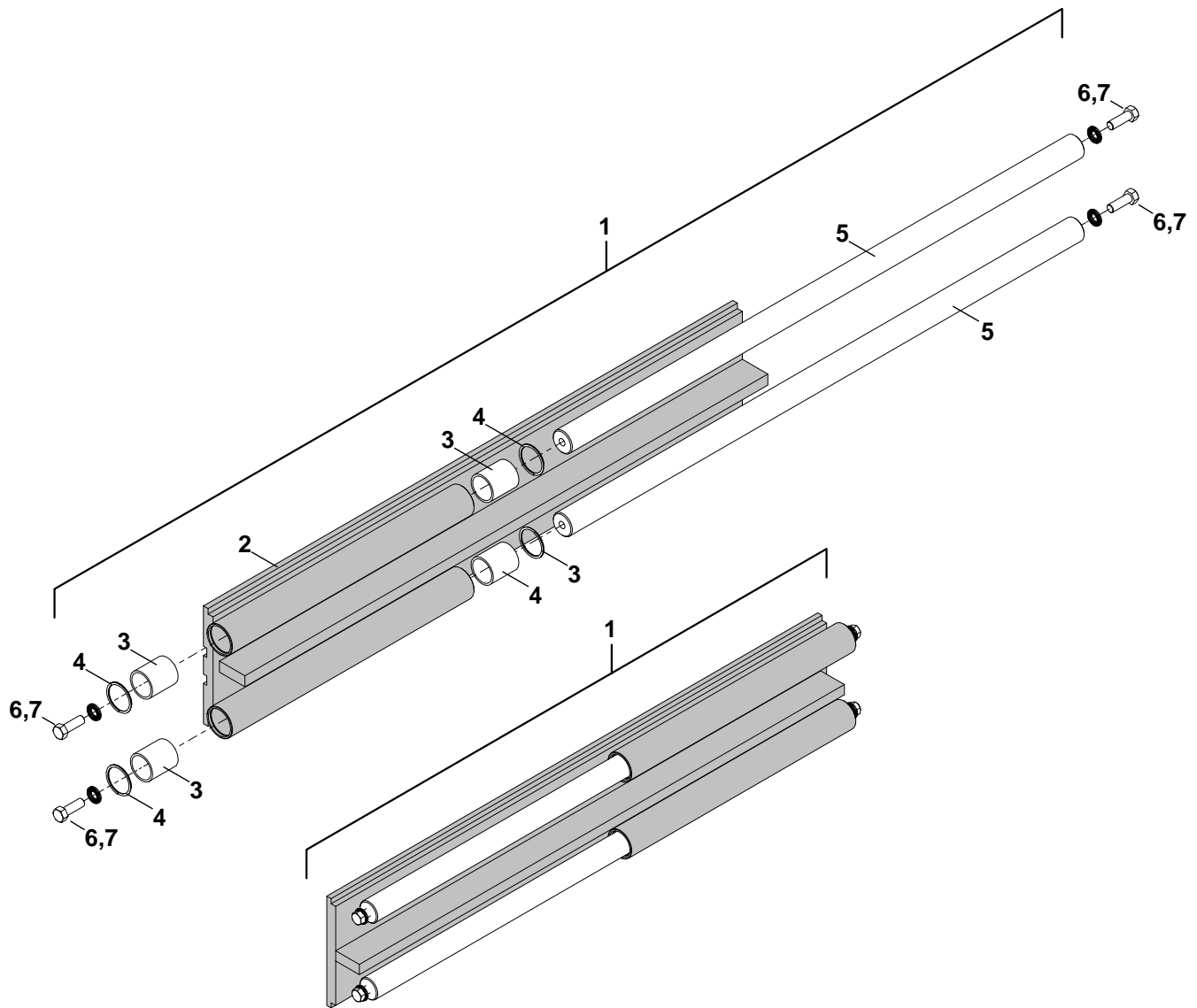


Figure 7-40. Option - Legend Screed Slide Plates

Option - Legend Screed Slide Plates

Item No	Part Number	Qty	Description	Remarks
1	1002186	2	Screed Fiber Bushing Slide Assembly	Includes Items 1-5
2	1002181	2	Slide Assembly with Fiber Bushings	Includes Items 3-4
3	988588	8	Fiber Bushing	(4) Per Assembly
4	851256	8	Snap Ring	(4) Per Assembly
5	988601	4	Screed Extension Shaft - Chrome	(2) Per Assembly
6	100-8-20-24-5	8	CSHH, 1/2-20 x 1.50, GR5	(4) Per Assembly
7	986810	8	Washer, Lock, 1/2, Nord Wedge	(4) Per Assembly

Illustrated Parts List

OPTION - LEGEND SCREED PULL ARM ASSEMBLY - LEFT/RIGHT

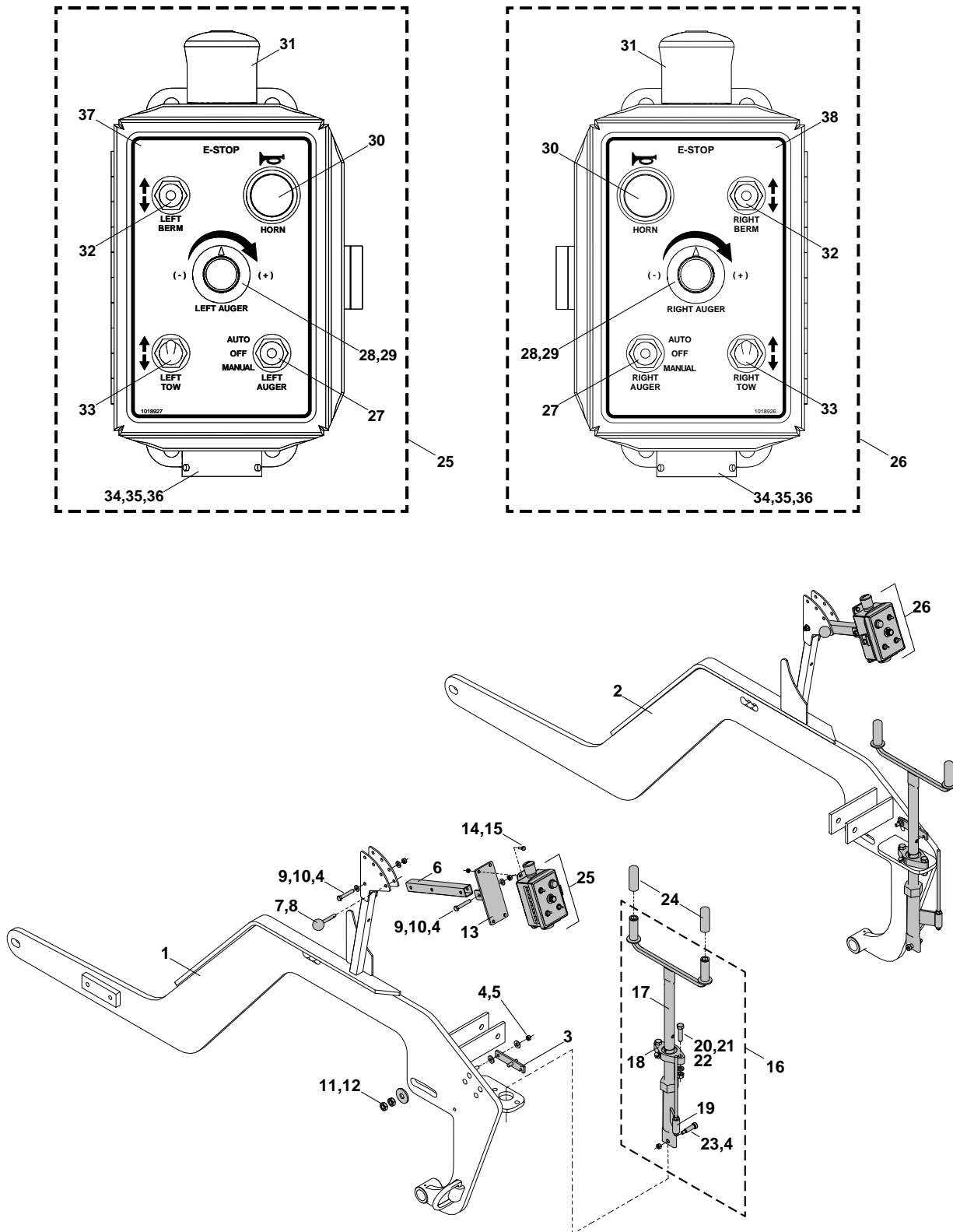


Figure 7-41. Option - Legend Screed Pull Arm Assembly - Left/Right

Option - Legend Screed Pull Arm Assembly - Left/Right

Item No	Part Number	Qty	Description	Remarks
1	1018713	1	Screed Arm Weldment, Adjustable - Left	Includes Items 3-10
2	1018714	1	Screed Arm Weldment, Adjustable - Right	Includes Items 3-10
3	851373SRV	2	Flight Screw Lock Arm	
4	204-6-16-5	8	Nut, Lock, Stover, 3/8-16, GR5	
5	301-6	4	Washer, Flat, USS, 3/8	
6	1008917	2	Pivot Tube	
7	851156	2	Round Knob, 1.375 x 3/8-16	
8	1008934	2	Quick Release Pin	
9	100-6-16-36-5	4	CSHH, 3/8-16 x 2.25, GR5	
10	300-6	6	Washer, Flat, SAE, 3/8	
11	202-10-11-5	4	Nut, Hex, Jam, 5/8-11, GR5	
12	855507	2	Pivot Guide Spacer	
13	1008928SRV	2	Screed Control Box Pivot	
14	100-4-20-12-5F	8	CSHH, 1/4-20 x .75, GR5, FT	
15	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
16	1002728SRV	2	Flight Screw Assembly w/Depth Rod	Includes Items 17-23,4
17	851370SRV	2	Flight Screw Assembly	
18	870030	A/R	Bearing Mount	Included With Item 17
19	855582SRV	2	Flight Screw Depth Rod Assembly	
20	100-8-13-32-5	4	CSHH, 1/2-13 x 2.00, GR5	
21	302-8	4	Washer, Lock, 1/2	
22	200-8-13-5	4	Nut, Hex, 1/2-13, GR5	
23	118-8-32-3/8x16	2	Shoulder Bolt, 1/2 x 2L, 3/8-16 x 1.00	
24	870276	4	Hand Grip	
25	1018750	1	Screed Control Box - Left	Includes Items 27-37
26	1018749	1	Screed Control Box - Right	Includes Items 27-36,38
27	851090613	2	Toggle Switch, 3-POS, SPDT	
28	35049	2	Knob	
29	1010077	2	Rheostat, 35Ω/25W	
30	982249	2	Horn Push Button	
31	1010672	2	Emergency Stop Switch, 1-NC	
32	851392	2	Toggle Switch, 3-POS, SPDT, MOM	
33	37521	2	Toggle Switch, 3-POS, DPDT, MOM	
34	984240	2	Connector Plug, 23 Pin, HD34 Deutsch	
35	981916-01	2	Connector Nut, 24 Shell	
36	981916-02	2	Connector Lockwasher, 24 Shell	
37	1018927	1	Decal - Screed Control, Left	
38	1018926	1	Decal - Screed Control, Right	

Illustrated Parts List

OPTION - LEGEND SCREED ENDGATE - LEFT

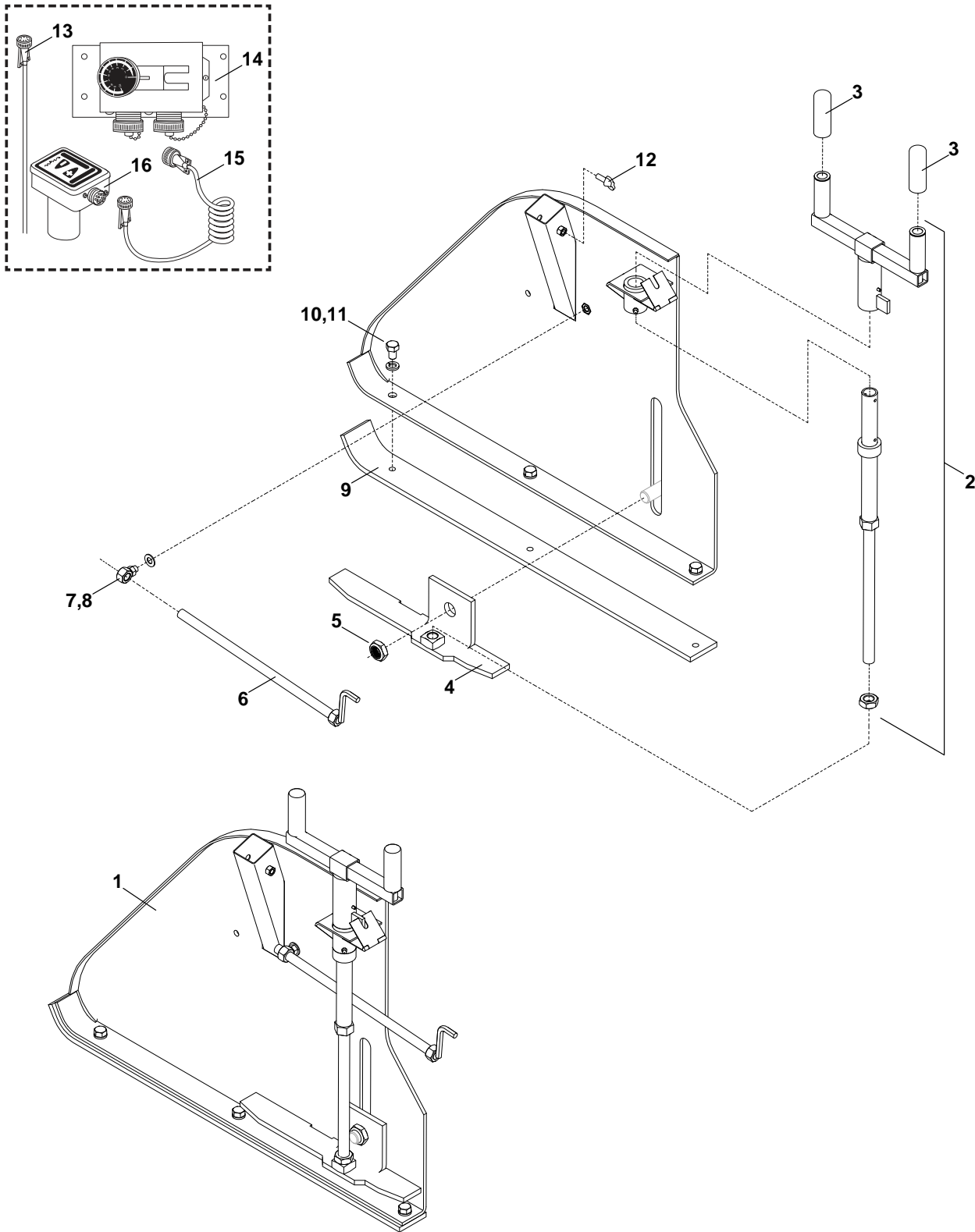


Figure 7-42. Option - Legend Screed Endgate - Left

Option - Legend Screed Endgate - Left

Item No	Part Number	Qty	Description	Remarks
1	983308SRV	1	Legend Screed Endgate Assembly - Left	
2	890092SRV	1	Depth Screw Assembly	
3	870276	2	Hand Grip	
4	890132LSRV	1	Depth Screw Bracket - Left	
5	987396	1	Nut, Nylon Lock, 7/8-9 UNC-2B	
6	890081SRV	1	Jointer Assembly Tilt Screw	
7	890070	1	Tilt Screw Swivel Nut	
8	300-7	1	Washer, Flat, SAE, 7/16	
9	982963SRV	1	End Gate Wear Plate	
10	100-8-13-12-5F	3	CSHH, 1/2-13 x .75, GR5, FT	
11	302-8	3	Washer, Lock, 1/2	
12	920070	1	Thumb Screw, 3/8-16 x 1.00	
13	982796	1	Ultrasonic Power Cable	
14	982795	1	Ultrasonic Remote Pod	
15	983050	1	Coil Cord, 6S/6S 1.5 to 7.5 Ft.	
16	982794	1	Ultrasonic Sensor	

Illustrated Parts List

OPTION - LEGEND SCREED ENDGATE - RIGHT

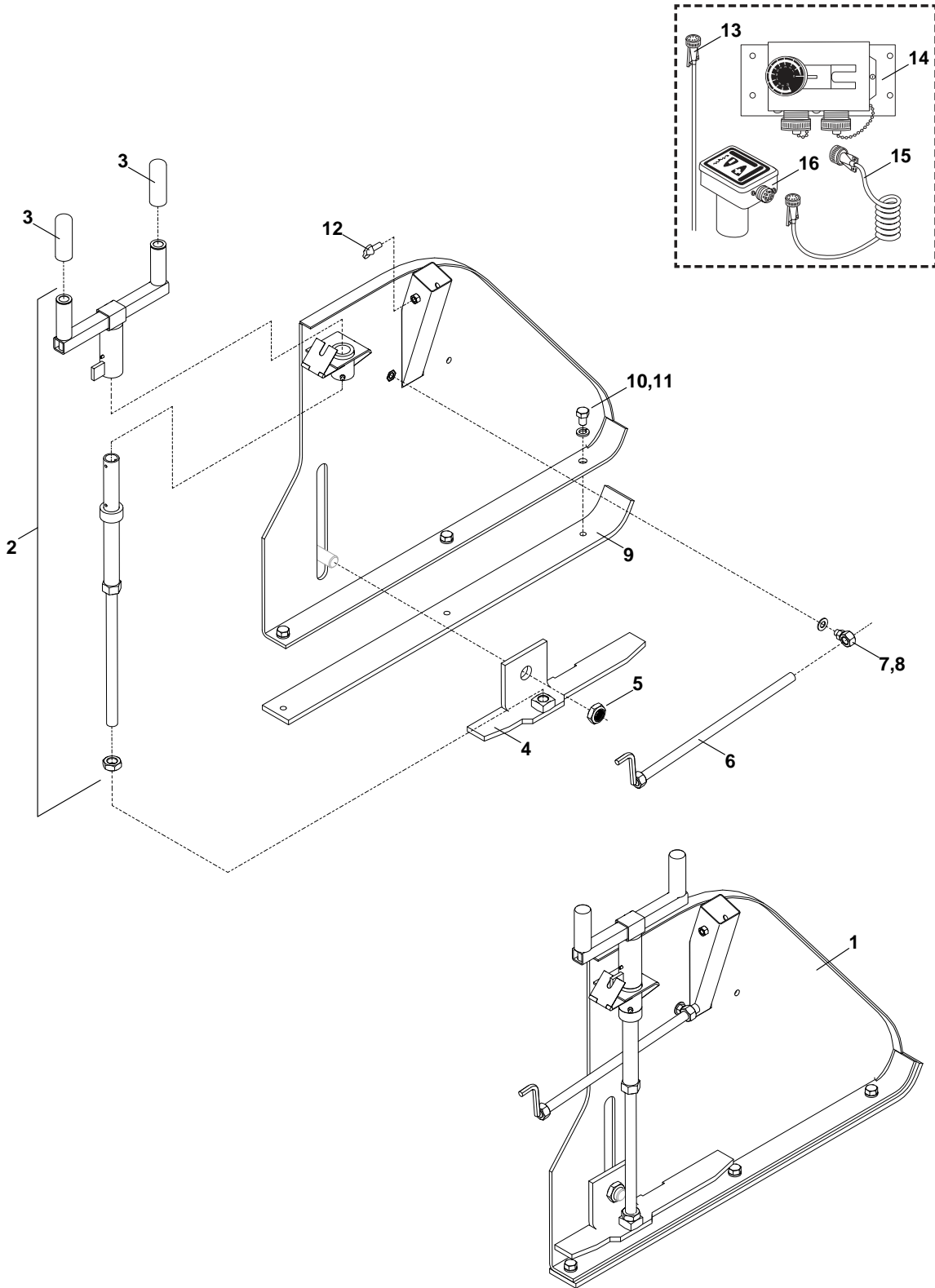


Figure 7-43. Option - Legend Screed Endgate - Right

Option - Legend Screed Endgate - Right

Item No	Part Number	Qty	Description	Remarks
1	983309SRV	1	Legend Screed Endgate Assembly - Right	
2	890092SRV	1	Depth Screw Assembly	
3	870276	2	Hand Grip	
4	890132RSRV	1	Depth Screw Bracket - Right	
5	987396	1	Nut, Nylon Lock, 7/8-9 UNC-2B	
6	890081SRV	1	Jointer Assembly Tilt Screw	
7	890070	1	Tilt Screw Swivel Nut	
8	300-7	1	Washer, Flat, SAE, 7/16	
9	982963SRV	1	End Gate Wear Plate	
10	100-8-13-12-5F	3	CSHH, 1/2-13 x .75, GR5, FT	
11	302-8	3	Washer, Lock, 1/2	
12	920070	1	Thumb Screw, 3/8-16 x 1.00	
13	982796	1	Ultrasonic Power Cable	
14	982795	1	Ultrasonic Remote Pod	
15	983050	1	Coil Cord, 6S/6S 1.5 to 7.5 Ft.	
16	982794	1	Ultrasonic Sensor	

Illustrated Parts List

OPTION - LEGEND LP SCREED DETAILS

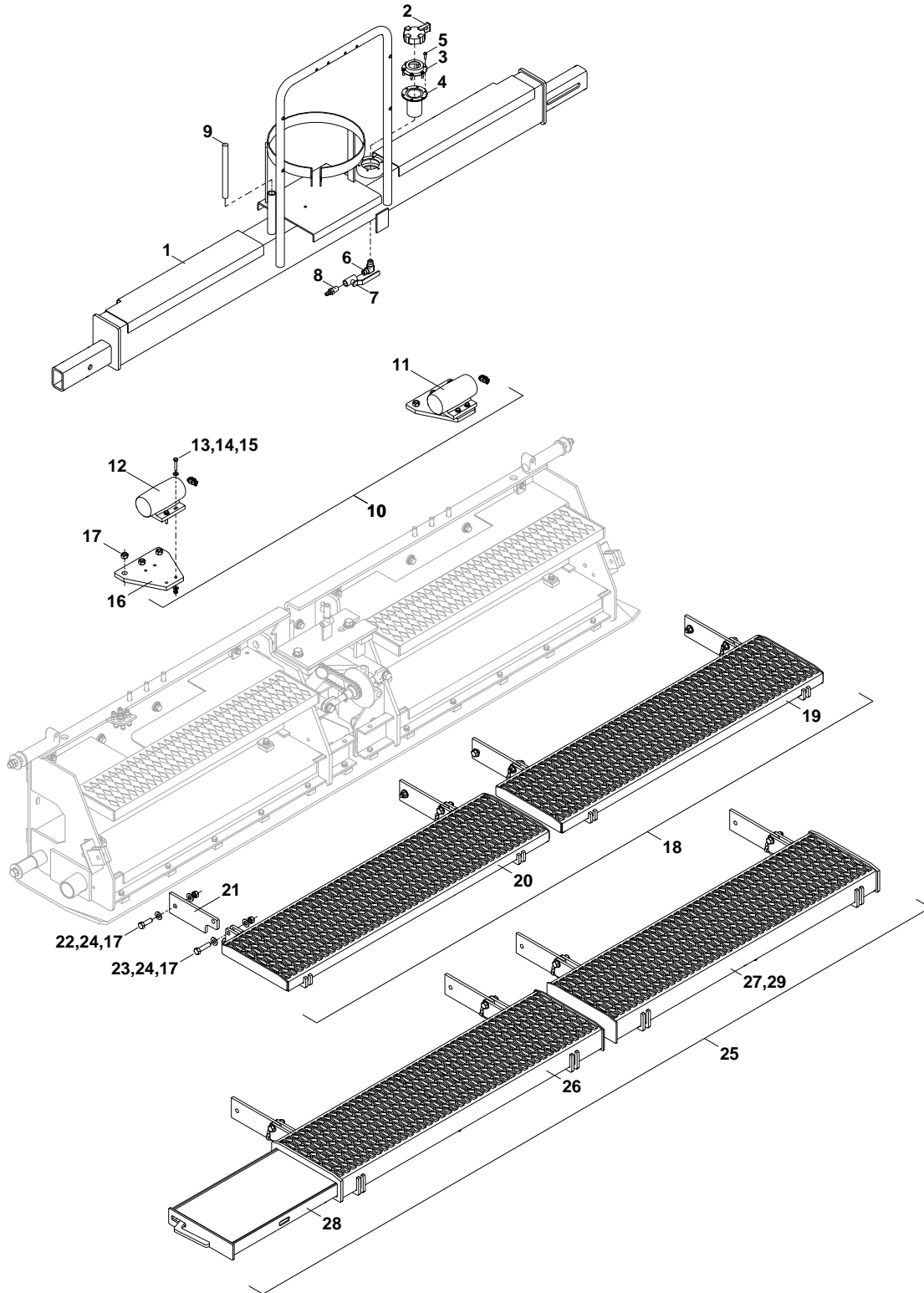


Figure 7-44. Option - Legend LP Screed Details

Option - Legend LP Screed Details

Item No	Part Number	Qty	Description	Remarks
1	988223SRV	1	Citrus Tank Assembly - LP	
2	140030FL	1	Fuel Tank Cap - Lockable	
3	140030FN	1	Filler Neck	
4	140030GK	1	Strainer & Gasket Kit	
5	116-#12-12	6	Screw, Self Drilling, HWH, #12 x .75	
6	5500-6-6	1	Elbow Adapter, 90°, -6 NPTF / -6 NPTF	
7	480160	1	Ball Valve, 3/8	
8	31959	1	Straight Fitting, 06MP-06HB, Push On	
9	851195SRV	1	Crown & Valley Crank Handle	
10	1019720	1	Group - Electric Vibrators	Includes Items 11-17
11	1020052	1	Vibrator Motor Assembly, 12VDC - Right	Includes Items 13-15
12	1020051	1	Vibrator Motor Assembly, 12VDC - Left	Includes Items 13-15
13	100-4-20-24-5	8	CSHH, 1/4-20 x 1.50, GR5	
14	300-4	16	Washer, Flat, SAE, 1/4	
15	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
16	1018801	2	Electric Vibrator Mounting Plate	
17	204-8-13-5	14	Nut, Lock, Stover, 1/2-13, GR5	
18	1016995	1	Group - Grip Strut Walkboard	Includes Items 19-24,17
19	1016462SRV	1	Grip Strut Walkboard Weldment - Right	
20	1016463SRV	1	Grip Strut Walkboard Weldment - Left	
21	985163	8	Walkboard Hinge Plate	
22	100-8-13-24-5	8	CSHH, 1/2-13 x 1.50, GR5	
23	100-8-13-32-5	8	CSHH, 1/2-13 x 2.00, GR5	
24	300-8	16	Washer, Flat, SAE, 1/2	
25	1018043	1	OPTION - Extendable Grip Strut Walkboard	Includes Items 26-29,21-24
26	1017489SRV	1	Walkboard Assembly - Left	
27	1017490SRV	1	Walkboard Assembly - Right	
28	1017493SRV	1	Walkboard Extension Assmbly - Left	
29	1017494SRV	1	Walkboard Extension Assembly - Right	Not Shown
30	1015859	1	Legend Screed Hose Kit	Not Shown

Illustrated Parts List

OPTION - LEGEND SCREED OVERVIEW

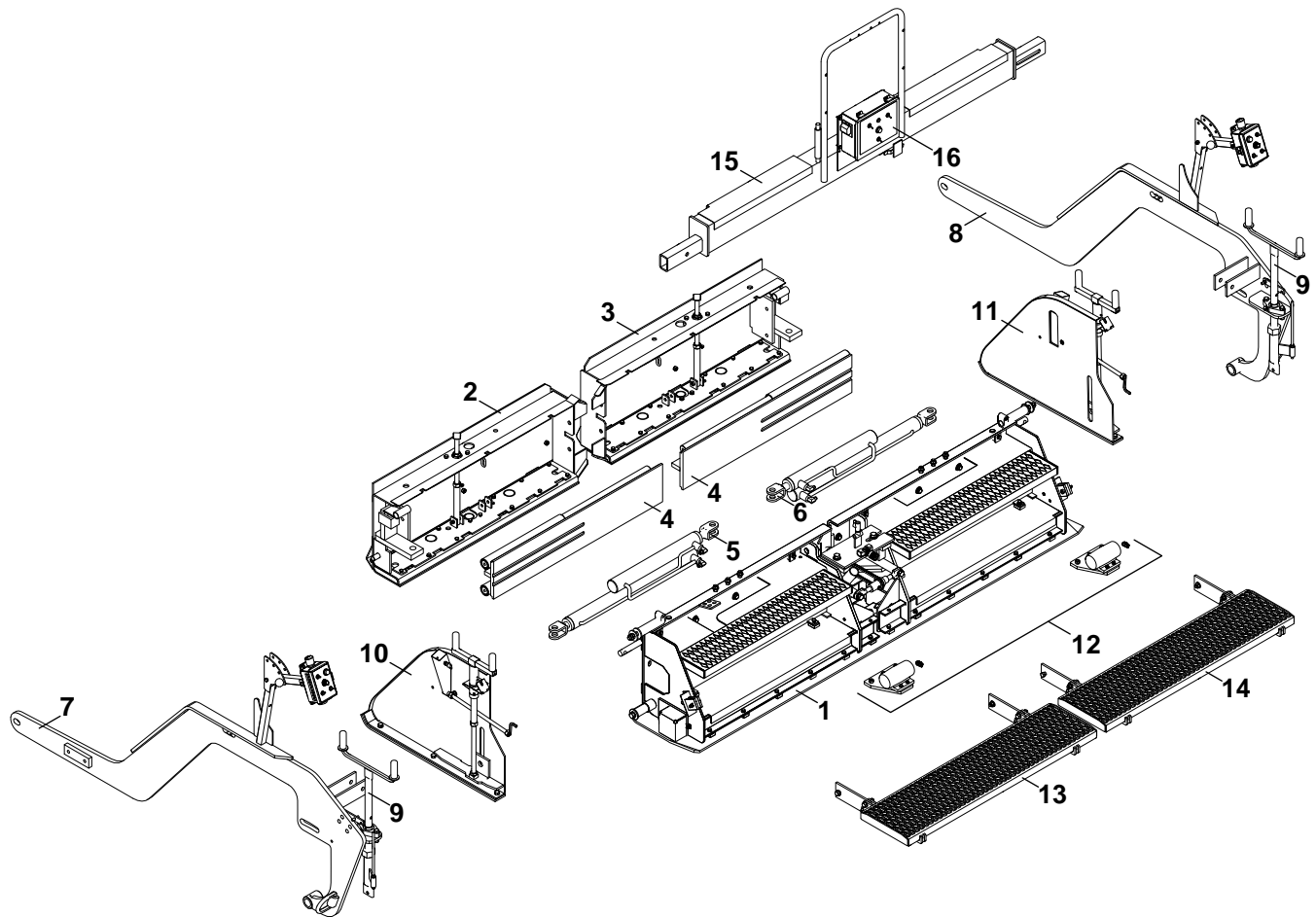


Figure 7-45. Option - Legend Electric Screed Overview

Option - Legend Electric Screed Overview

Item No	Reference Figure	Description	Remarks
1	7-45	Legend Screed Frame Assembly	
2	7-46	Legend Screed Extension Assembly - Left	
3	7-46	Legend Screed Extension Assembly - Right	
4	7-39	Screed Slide Plate Assemblies	
5	7-45	Hydraulic Cylinder - Left	
6	7-45	Hydraulic Cylinder - Right	
7	7-40	Screed Pull Arm Assembly - Left	
8	7-40	Screed Pull Arm Assembly - Right	
9	7-40	Screed Thickness Adjuster - Standard	
10	7-41	Screed Endgate Assembly, Standard- Left	
11	7-42	Screed Endgate Assembly, Standard - Right	
12	7-47	Screed Vibrator Assembly	
13	7-47	Grip Strut Walkboard Assembly - Left	
14	7-47	Grip Strut Walkboard Assembly - Right	
-	7-47	Walkboard Assembly - Option	Not Shown
15	7-47	Citrus Tank Assembly	
16	7-48	10kW Screed Control Assembly	

Illustrated Parts List

OPTION - LEGEND SCREED FRAME

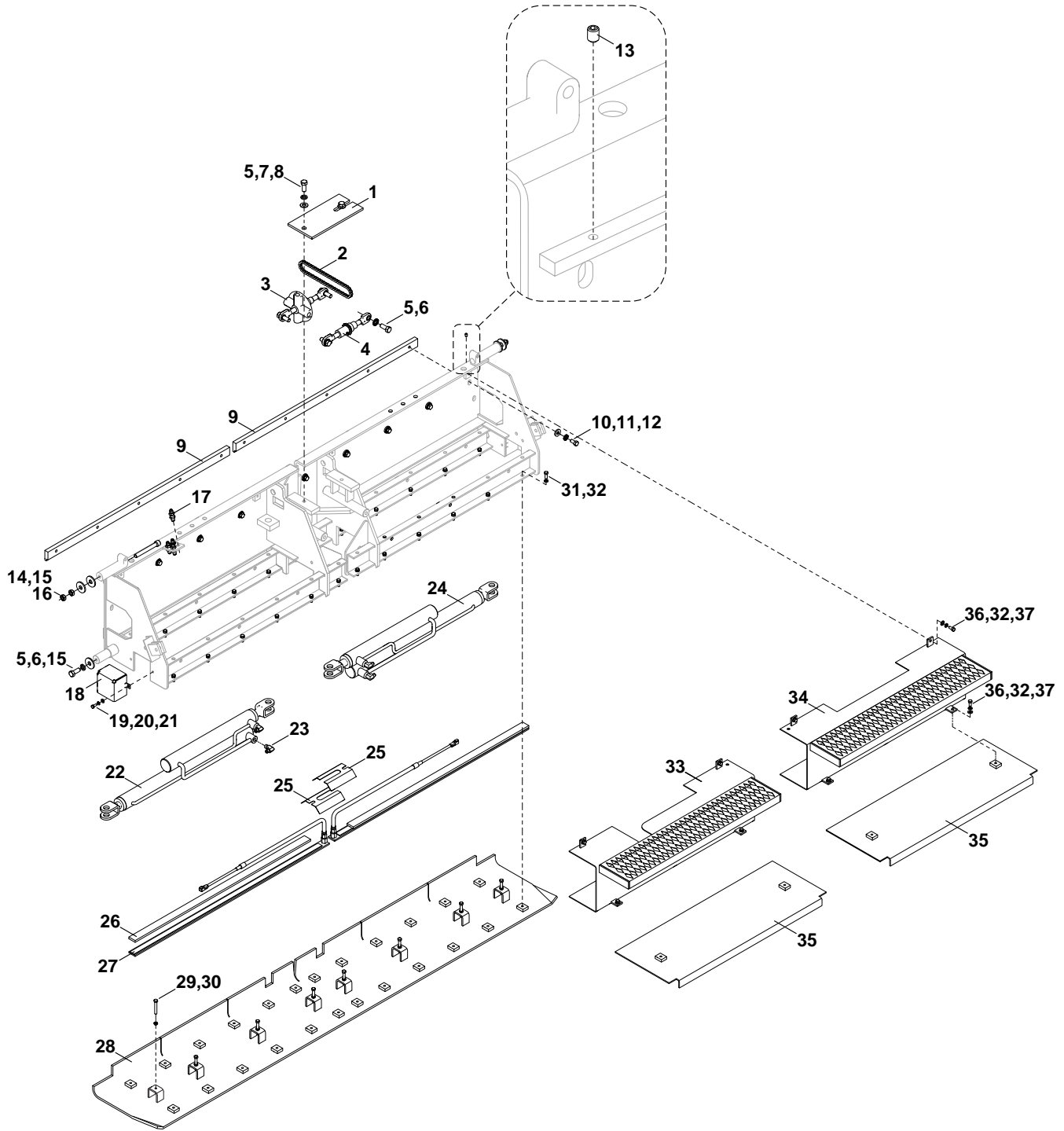


Figure 7-46. Option - Legend Screed Frame

Option - Legend Screed Frame

Item No	Part Number	Qty	Description	Remarks
1	854659	1	Screed Vibrator Mount	
GRP	1004951	1	Group - Manual Crown	Includes Items 3-6
2	870190	1	Roller Chain, 40 x 52 Pitch	
3	870182	1	Crown & Valley Assembly - Rear	
4	870172	1	Crown & Valley Assembly - Front	
5	100-10-11-24-5F	8	CSHH, 5/8-11 x 1.50, GR5, FT	
6	986811	4	Washer, Lock, .670, Nord Wedge	
7	302-10	4	Washer, Lock, 5/8	
8	300-10	2	Washer, Flat, SAE, 5/8	
9	855784	2	Screed Extension Toprail	
10	100-8-13-16-5F	10	CSHH, 1/2-13 x 1.00, GR5, FT	
11	986810	10	Washer, Lock, .500, Nord Wedge	
12	309-8-20-3	10	Washer, Thick, 1/2 x 1.25 x .188	
13	80305	10	Set Screw, 3/8-16 x .50, HSKT	
14	202-10-11-5	4	Nut, Hex, Jam, 5/8-11, GR5	
15	855507	6	Pivot Guide Spacer	
16	102-10-11-80	2	CSSH, 5/8-11 x 5.00	
17	2700-10-10-LN	4	Bulhead Union Adapter, -10 JIC / -10 JIC	
18	985124	2	Screed Base Elements Cover	
19	100-5-18-12-5F	4	CSHH, 5/16-18 x .75, GR5, FT	
20	302-5	4	Washer, Lock, 5/16	
21	300-5	4	Washer, Flat, SAE, 5/16	
REF	1018709	1	Hydraulic Cylinder Assembly - Left	Includes Items 22-23
22	851191	1	Hydraulic Cylinder, 2.00 x 12.00/30.00 x 1.25	
23	2501-6-6	4	Elbow Adapter, 90°, -6 JIC / -6 NPTF	(2) Per Cylinder
REF	1018710	1	Hydraulic Cylinder Assembly - Right	Includes Items 23,24
24	851192	1	Hydraulic Cylinder, 2.00 x 12.00/30.00 x 1.25	
25	985555	2	Center Element Cover	
26	985121	2	Element Hold Down Bar	
27	987886SRV	2	Heating Element, 1750W/220V, 46.5"	
28	987216SRV	1	Wearplate Assembly - Electric	
29	100-6-16-40-5F	8	CSHH, 3/8-16 x 2.50, GR5, FT	
30	202-6-16-5	8	Nut, Hex, Jam, 3/8-16, GR5	
31	100-6-24-16-5F	12	CSHH, 3/8-24 x 1.00, GR5-FT	
32	302-6	20	Washer, Lock, 3/8	
33	851204SRV	1	Screed Extension Cylinder Cover - Left	
34	851203SRV	1	Screed Extension Cylinder Cover - Right	
35	1018680	2	Heatbox Cover	
36	100-6-24-12-5F	8	CSHH, 3/8-24 x .75, GR5, FT	
37	300-6	8	Washer, Flat, SAE, 3/8	

Illustrated Parts List

OPTION - LEGEND SCREED EXTENSIONS

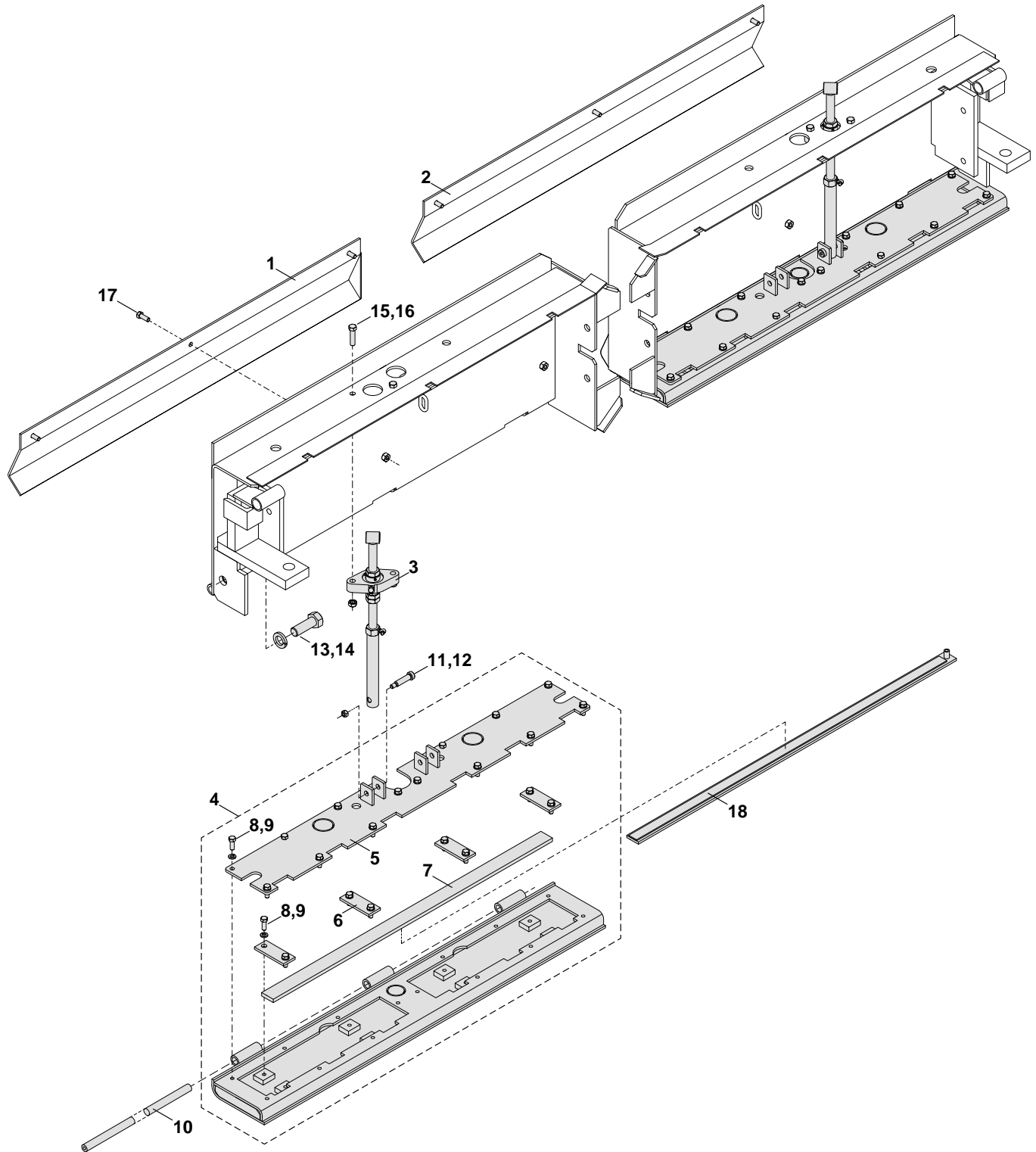


Figure 7-47. Option - Legend Screed Extensions

Option - Legend Screed Extensions

Item No	Part Number	Qty	Description	Remarks
REF	985561SRV	1	Screed Extension Assembly, Electric - Left	Includes Items 1,3-17
REF	985562SRV	1	Screed Extension Assembly, Electric - Right	Includes Items 2-17
1	851180LSRV	1	Screed Extension Guard - Left	
2	851180RSRV	1	Screed Extension Guard - Right	
3	851185SRV	2	Screed Extension Adjuster Assembly	(1) Per Assembly
4	987872SRV	2	Screed Heat Box Assembly	(1) Per Assembly
5	988291SRV	2	Screed Heat Box Cover	(1) Per Assembly
6	985123	8	Screed Extension Element Clamp	(4) Per Assembly
7	985120	2	Bar, .25 x 1.50 x 36.00	(1) Per Assembly
8	100-6-24-16-8F	44	CSHH, 3/8-24 x 1.00, GR8, FT	(22) Per Assembly
9	302-6	44	Washer, Lock, 3/8	(22) Per Assembly
10	854447SRV	2	Shaft, ϕ .688 x 43.50	(1) Per Assembly
11	118-8-32-3/8X16	2	Shoulder Bolt, 1/2 x 2L, 3/8-16 x 1.00	(1) Per Assembly
12	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	(1) Per Assembly
13	100-14-9-40-5	2	CSHH, 7/8-9 x 2.50, GR5	(1) Per Assembly
14	302-15	2	Washer, Lock, 15/16	(1) Per Assembly
15	100-7-14-28-5	4	CSHH, 7/16-14 x 1.75, GR5	(2) Per Assembly
16	204-7-14-5	4	Nut, Lock, Stover, 7/16-14, GR5	(2) Per Assembly
17	100-6-16-16-5F	6	CSHH, 3/8-16 x 1.00, GR5, FT	(3) Per Assembly
18	987890SRV	2	Heating Element, 1000W/220V x 41.00"	(1) Per Assembly

Illustrated Parts List

OPTION - LEGEND SCREED DETAILS

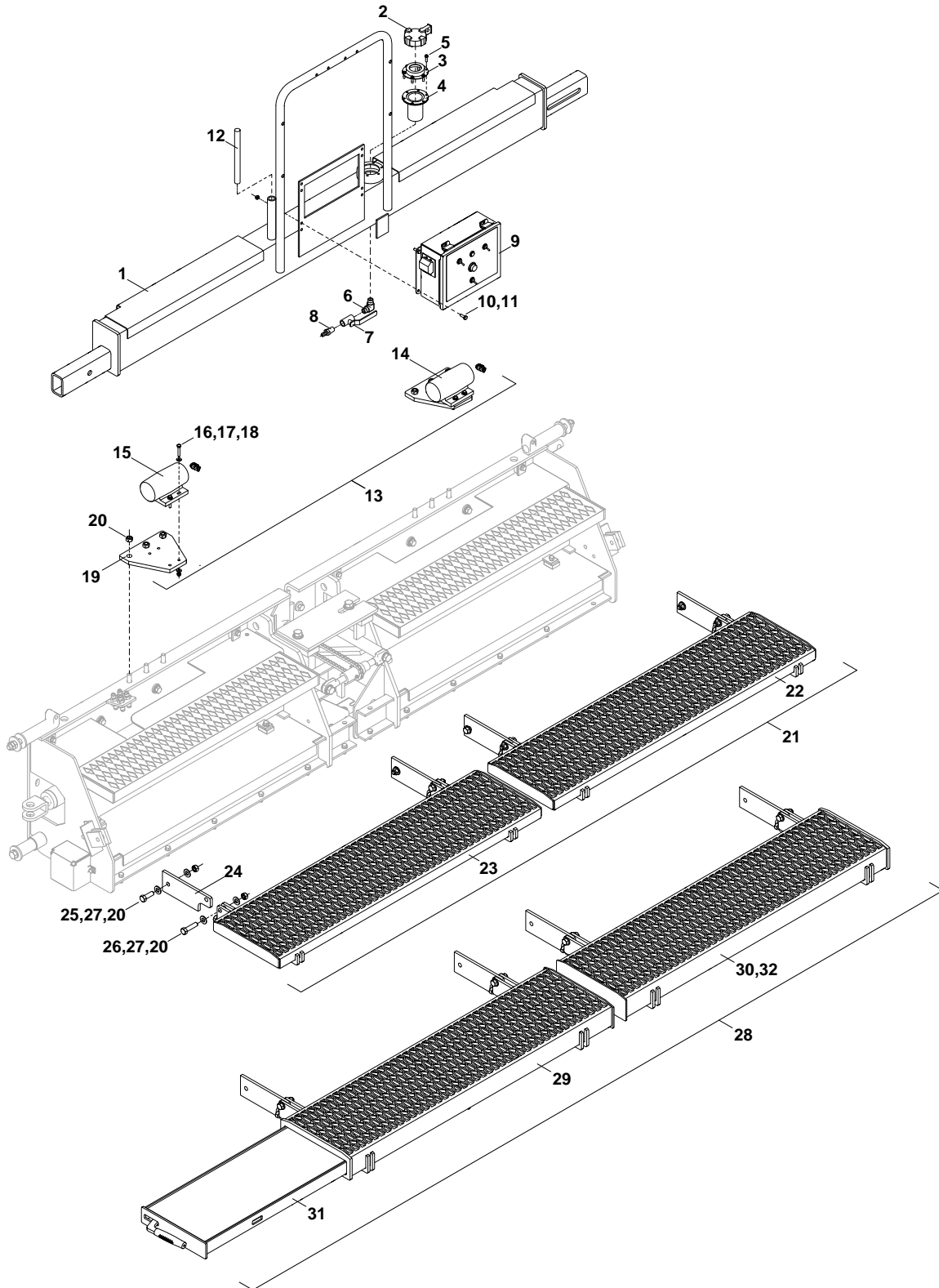


Figure 7-48. Option - Legend Screed Details

Option - Legend Screed Details

Item No	Part Number	Qty	Description	Remarks
1	988224SRV	1	Citrus Tank Assembly - Standard	
2	140030FL	1	Fuel Tank Cap - Lockable	
3	140030FN	1	Filler Neck	
4	140030GK	1	Strainer & Gasket Kit	
5	116-#12-12	6	Screw, Self Drilling, HWH, #12 x .75	
6	5500-6-6	1	Elbow Adapter, 90°, -6 NPTF / -6 NPTF	
7	480160	1	Ball Valve, 3/8	
8	31959	1	Straight Fitting, 06MP-06HB, Push On	
9	1016891	1	Heatbox Assembly, 10kW	
10	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	
11	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	
12	851195SRV	1	Crown & Valley Crank Handle	
13	1019720	1	Group - Electric Vibrators	Includes Items 14-20
14	1020052	1	Vibrator Motor Assembly, 12VDC - Right	Includes Items 16-18
15	1020051	1	Vibrator Motor Assembly, 12VDC - Left	Includes Items 16-18
16	100-4-20-24-5	8	CSHH, 1/4-20 x 1.50, GR5	
17	300-4	16	Washer, Flat, SAE, 1/4	
18	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
19	1018801	2	Electric Vibrator Mounting Plate	
20	204-8-13-5	14	Nut, Lock, Stover, 1/2-13, GR5	
21	1016995	1	Group - Grip Strut Walkboard	Includes Items 22-27,20
22	1016462SRV	1	Grip Strut Walkboard Weldment - Right	
23	1016463SRV	1	Grip Strut Walkboard Weldment - Left	
24	985163	8	Walkboard Hinge Plate	
25	100-8-13-24-5	8	CSHH, 1/2-13 x 1.50, GR5	
26	100-8-13-32-5	8	CSHH, 1/2-13 x 2.00, GR5	
27	300-8	16	Washer, Flat, SAE, 1/2	
28	1018043	1	OPTION - Extendable Grip Strut Walkboard	Includes Items 29-32,18,25-27
29	1017489SRV	1	Walkboard Assembly - Left	
30	1017490SRV	1	Walkboard Assembly - Right	
31	1017493SRV	1	Walkboard Extension Assmby - Left	
32	1017494SRV	1	Walkboard Extension Assembly - Right	Not Shown
REF	1015859	1	Legend Screed Hose Kit	Not Shown

Illustrated Parts List

OPTION - 10KW SCREED CONTROL ASSEMBLY

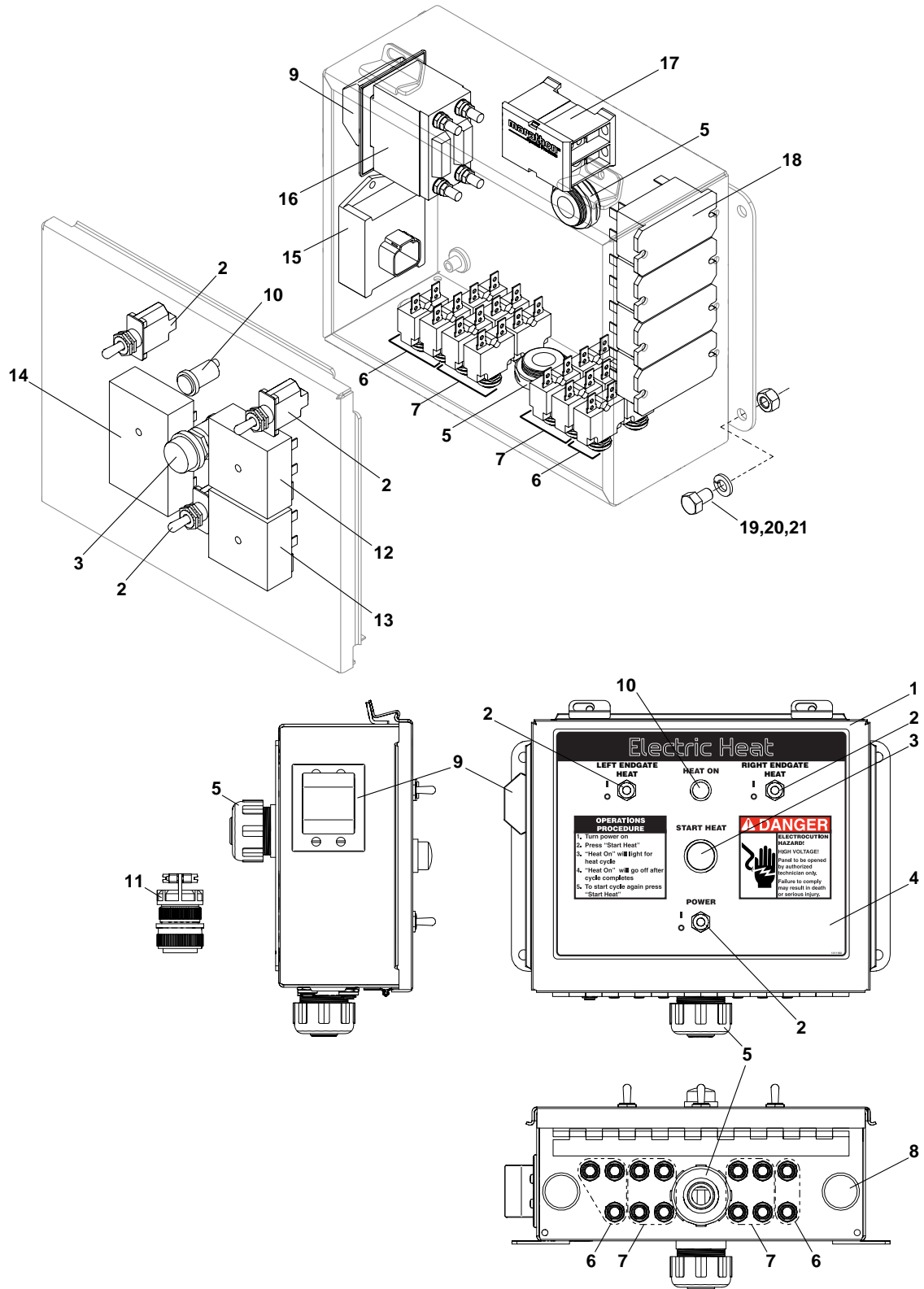


Figure 7-49. Option - 10kW Screed Control Assembly

Option - 10kW Screed Control Assembly

Item No	Part Number	Qty	Description	Remarks
REF	1016891	1	Control Box Assembly, 10kW	
1	100804	1	Enclosure, 10 x 8 x 4	
2	851090624	3	Toggle Switch, SPDT, 2-POS	
3	982249	1	Push Button Switch	
4	1019113	1	Decal - Electric Heat	
5	1017228	2	Water Tight Conduit Connector	
6	985140	5	Circuit Breaker, 15A, Pan Mount	
7	1009228	8	Circuit Breaker, 10A	
8	35136-7	2	Plastic Hole Plug, .875, Flush Mount	
9	1016892	1	Circuit Breaker Boot	
10	31983	1	Red Light	
11	985687	1	Amphenol Connector, 06-Pin Male	
12	988230	1	Time Delay Relay, ON, 10A	
13	985142	1	Electric Timer, 06 - 60 MIN	
14	988231	1	Off Delay Timer, 5 Seconds	
15	1017190	1	AC Detector, Generator Control	
16	1016901	1	Circuit Breaker, 40A, Generator Protection	
17	985138-04	1	Terminal Block w/Cover	
18	985141	4	Relay, 12VDC, DSPT, 25A, N/O	
19	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	
20	302-4	4	Washer, Lock, 1/4	
21	200-4-20-5	4	Nut, Hex, 1/4-20, GR5	

Illustrated Parts List

HD SCREED OVERVIEW - NON-SLOPING

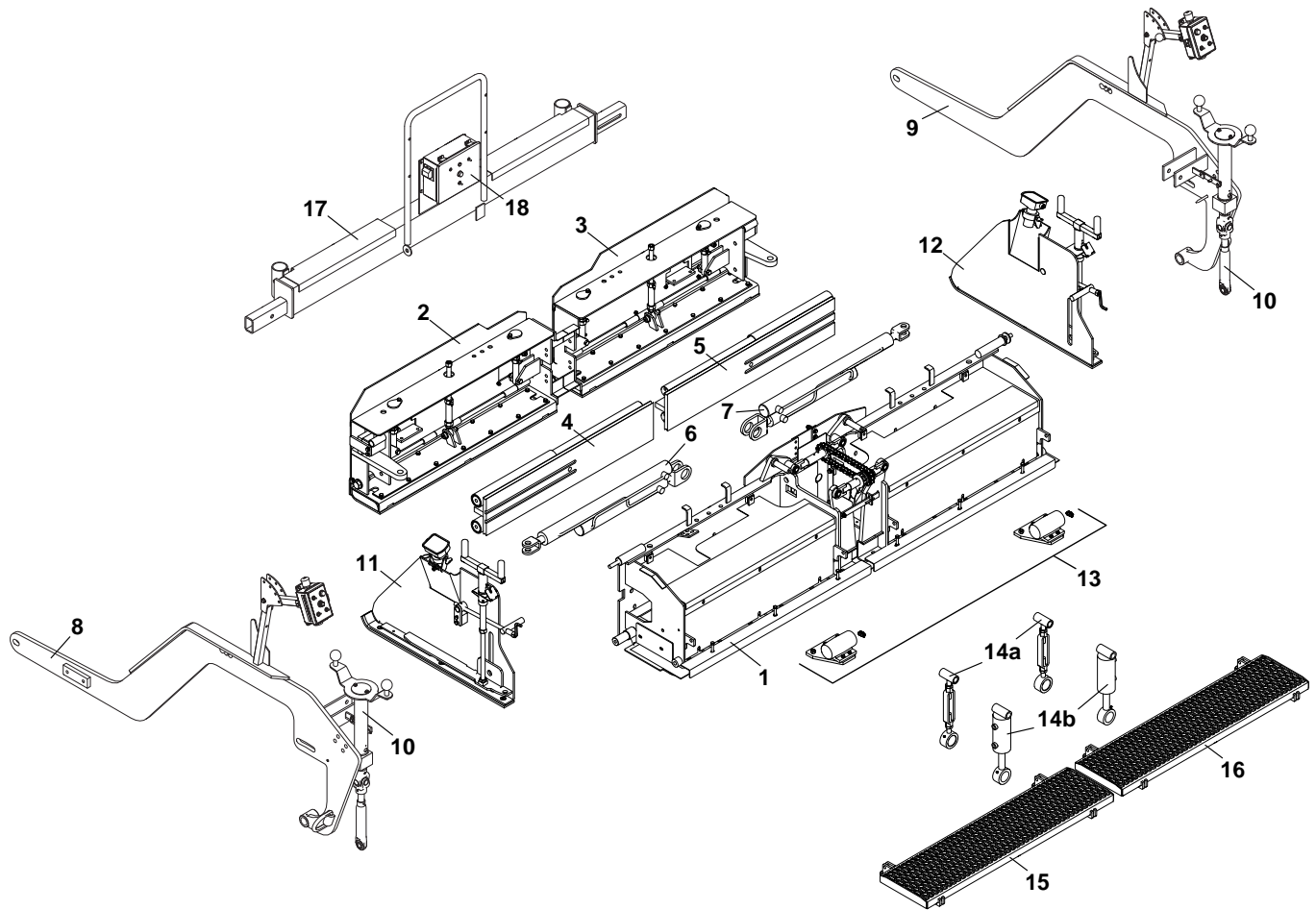


Figure 7-50. HD Screed Overview - Non-Sloping

HD Screed Overview - Non-Sloping

Item No	Reference Figure	Description	Remarks
1	7-50,7-51	HD Screed Frame Assembly	
2	7-52	HD Screed Extension Assembly - Left	
3	7-53	HD Screed Extension Assembly - Right	
4	7-54	HD Screed Slide Plate Assembly	
5	7-54	HD Screed Slide Plate Assembly	
6	7-51	Hydraulic Cylinder - Left	
7	7-51	Hydraulic Cylinder - Right	
8	7-55	HD Screed Pull Arm Assembly, 6 Function - Left	
9	7-55	HD Screed Pull Arm Assembly, 6 Function - Right	
10	7-56	HD Screed Thickness Adjuster - Standard	
11	7-57	HD Screed Endgate Assembly, Standard- Left	
12	7-57	HD Screed Endgate Assembly, Standard - Right	
13	7-58	Screed Vibrator Assembly	
14	7-51	Manual Turnbuckle Assembly	Non-Slope
15	7-58	Grip Strut Walkboard Assembly - Left	
16	7-58	Grip Strut Walkboard Assembly - Right	
17	7-59	Citrus Tank Assembly	
18	7-48	10kW Screed Control Assembly	

Illustrated Parts List

HD SCREED FRAME ASSEMBLY (1 OF 2)

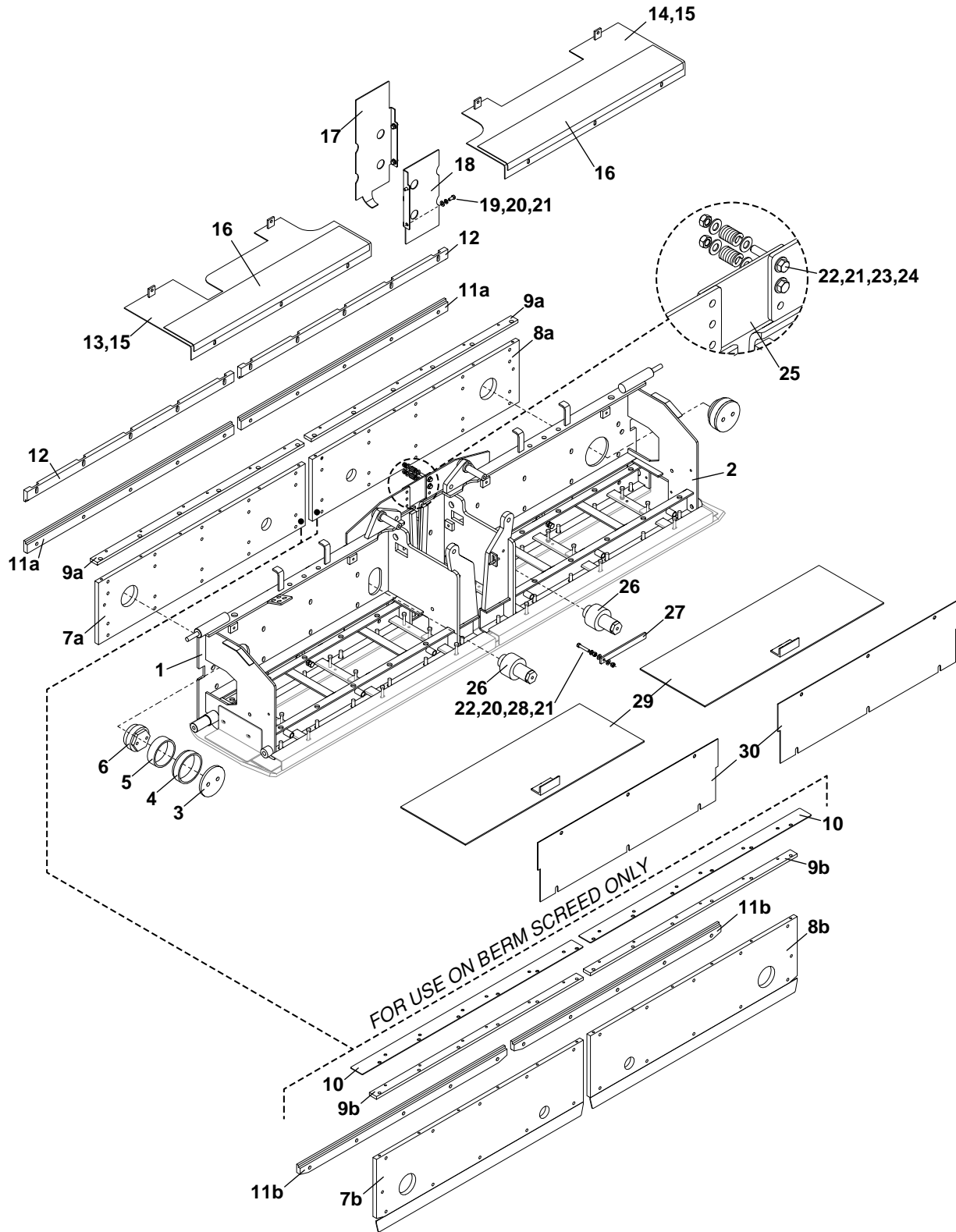


Figure 7-51. HD Screed Frame Assembly (1 of 2)

HD Screed Frame Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
1	1006993	1	Inner Plate Assembly - Left	
2	1006994	1	Inner Plate Assembly - Right	
3	981711	2	Pivot Cover Plate	
4	981660	2	Pivot Housing Tube	
5	981838	2	Slope Pivot Poly Bushing	
6	981659	2	Slope Pin	
7a	1008663SRV	1	Rail Mount Weldment - Left	HD Std Screed Only
7b	1015424SRV	1	Pivot Plate Weldment - Left	HD Berm Screed Only
8a	1008662SRV	1	Rail Mount Weldment - Right	HD Std Screed Only
8b	1015412SRV	1	Pivot Plate Weldment - Right	HD Berm Screed Only
9a	1006424	2	Slide Locking Bar	HD Std Screed Only
9b	1015319	2	Extension Hold Down Bar	HD Berm Screed Only
10	1015323	2	Asphalt Blocker Plate - Upper	HD Berm Screed Only
11a	1017614	2	L-Shape Extension Slide Rail - Bottom	HD Std Screed Only
11b	1018243	2	L-Shape Extension Slide Rail - Bottom	HD Berm Screed Only
12	1017612	2	L-Shape Extension Slide Rail - Top	
13	1006405	1	Upper Screed Cover - Left	
14	1006406	1	Upper Screed Cover - Right	
15	855759	4	Bar, .25 x 1.25 x 1.50 w/Hole	Weld On for Items 11,12
16	985168	2	Aluminum Diamond Plate Step	
17	1014028	1	Bolt-On Asphalt Shield	
18	1015171	1	Bolt-On Asphalt Shield Plate	
19	100-6-16-12-5F	2	CSHH, 3/8-16 x .75, GR5, FT	
20	302-6	3	Washer, Lock, 3/8	
21	300-6	6	Washer, Flat, SAE, 3/8	
22	100-6-16-32-5	2	CSHH, 3/8-16 x 2.00, GR5	
23	1015173	2	Upper Asphalt Shield Spring	
24	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	
25	1015172	1	Bolt-On Upper Asphalt Shield Plate	
26	981661	2	Cylinder Mounting Pin	
27	1007232	1	Crown & Valley Gauge Bar	
28	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	
29	1011697	2	Screed Cover Weldment	
30	1007000	2	Lower Screed Cover	

Illustrated Parts List

HD SCREED FRAME ASSEMBLY (2 OF 2)

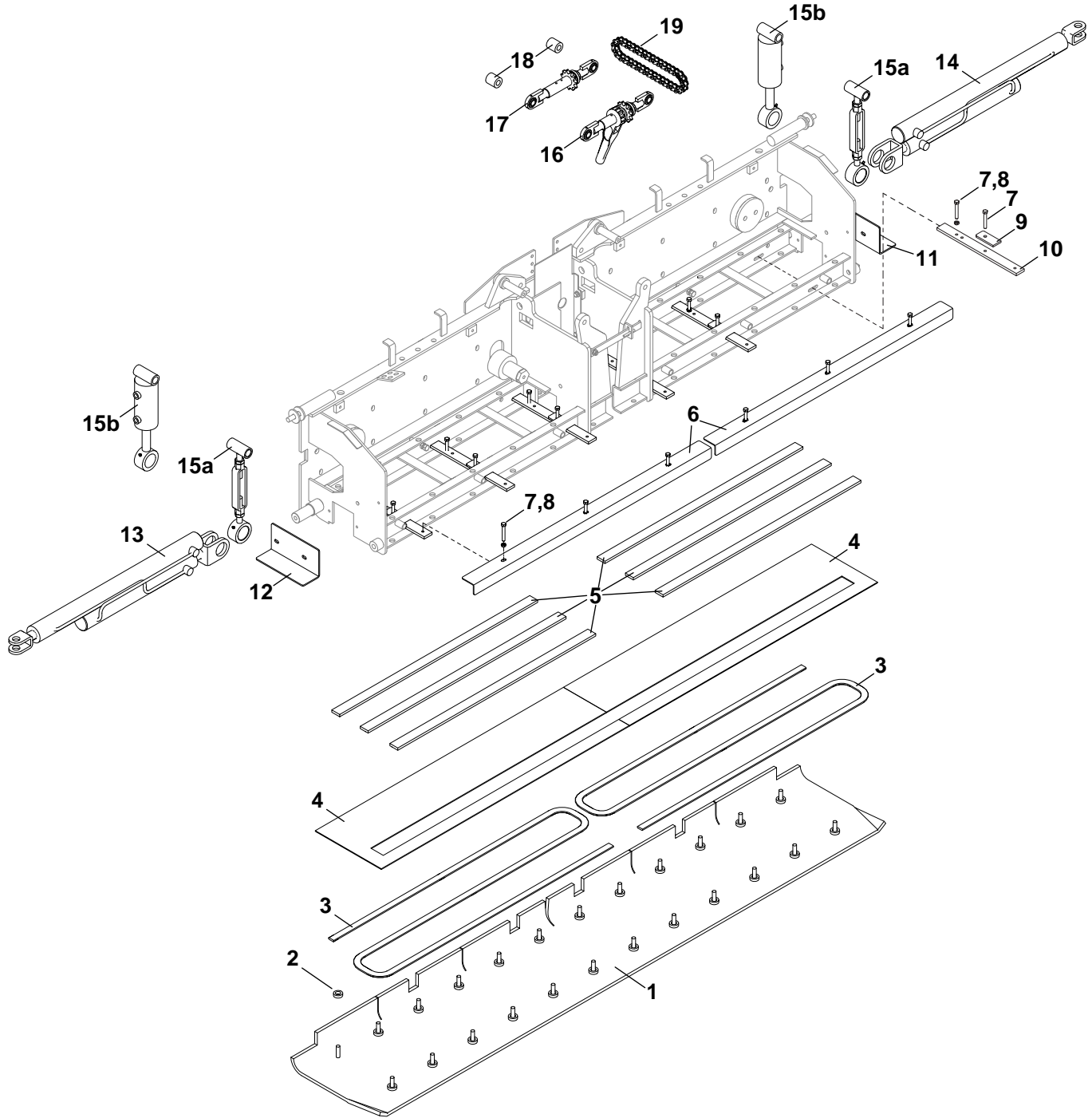


Figure 7-52. HD Screed Frame Assembly (2 of 2)

HD Screed Frame Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
1	1016475	1	Wear Plate w/Studs, 3/8"	
2	1007001	24	Wear Plate Spacer	
3	1015855SRV	2	S-Style Heating Element, 3000W/240V	
4	1015018	2	HD Screed Insulation	
5	1016582	6	Bar, .375 x 1.50 x 37.50	
6	1016477	2	S-Style Element Cover	
7	100-6-16-40-5	18	CSHH, 38-16 x 2.50, GR5	
8	202-6-16-5	18	Nut, Hex, Jam, 3/8-16, GR5	
9	1016480	6	S-Style Element Stop Bar	
10	1016476	6	S-Style Element Hold Down Bar	
11	1016481	1	S-Style Element End Cover - Right	
12	1016483	1	S-Style Element End Cover - Left	
13	981710L	1	Hydraulic Cylinder, 2.00 x 2.00 x 42.00 x 1.25 Rod	
14	981710R	1	Hydraulic Cylinder, 2.00 x 2.00 x 42.00 x 1.25 Rod	
15	1016151SRV	2	Manual Turnbuckle Assembly	
GRP	1007212		Group - Mechanical Crown	
16	1009439	1	Crown & Valley Assembly	
17	1009440	1	Crown & Valley Turnbuckle Assembly	
18	1006419	2	Crown Mounting Spacer	
19	1008047	1	Roller Chain, 60H x 39P w/Half-Link & Masterlink	

Illustrated Parts List

HD SCREED EXTENSION ASSEMBLY - LEFT

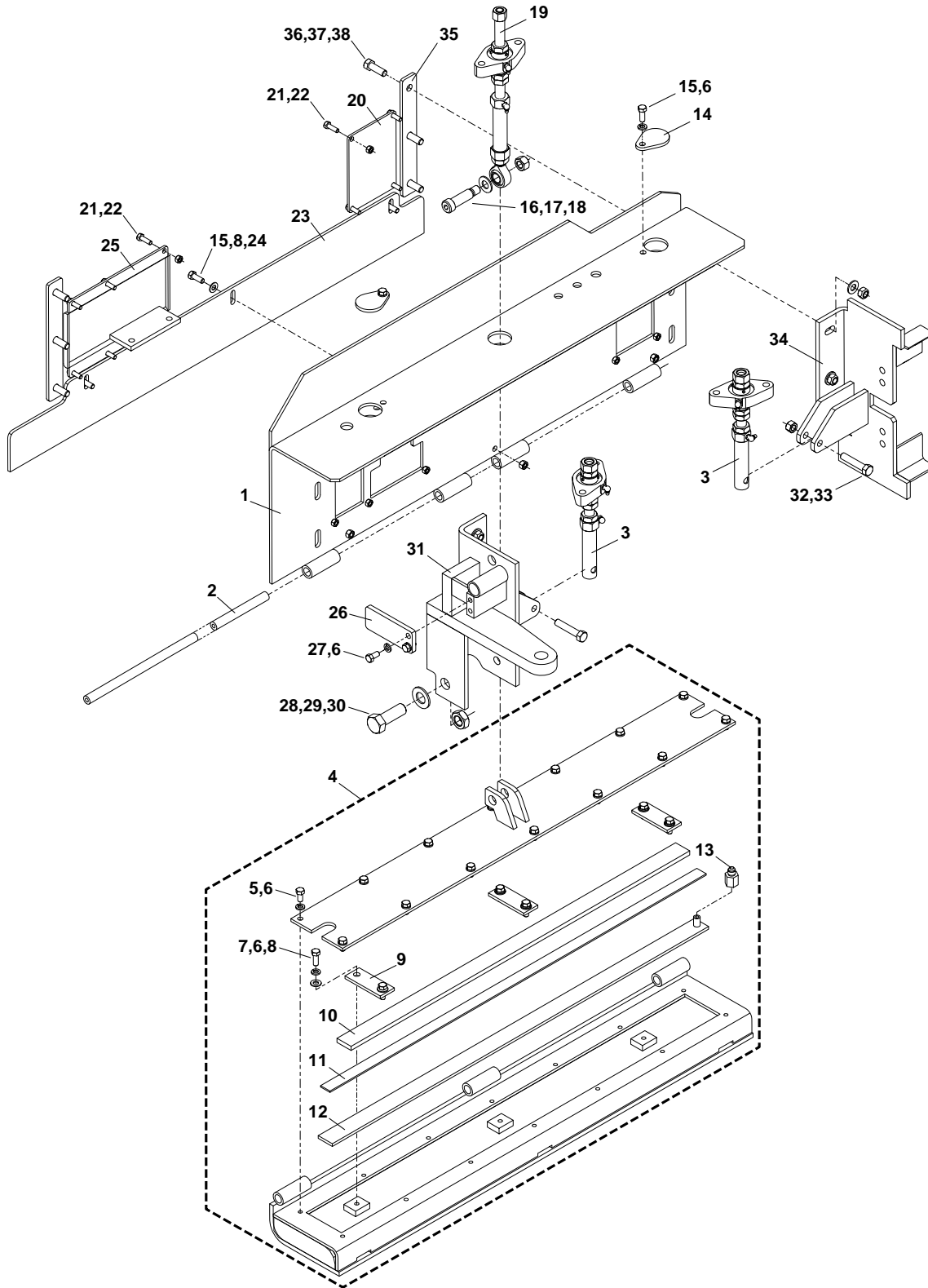


Figure 7-53. HD Screed Extension Assembly - Left

HD Screed Extension Assembly - Left

Item No	Part Number	Qty	Description	Remarks
REF	1008079SRV	1	Screed Extension Assembly - Left	Includes All Items
1	1009634SRV	1	Screed Extension Front Assembly - Left	Includes Items 2 - 28
2	854447SRV	1	Shaft, ϕ .688 x 43.50	
3	1006390	2	Vertical Adjuster Assembly	
4	1008081SRV	1	Extension Heatbox Assembly - Left	Includes Items 5 - 11
5	100-6-16-12-5F	14	CSHH, 3/8-16 x .75, GR5, FT	
6	302-6	24	Washer, Lock, 3/8	
7	100-6-24-16-5F	6	CSHH, 3/8-24 x 1.00, GR5, FT	
8	300-6	9	Washer, Flat, SAE, 3/8	
9	985123	3	Screed Extension Element Clamp	
10	985120	1	Bar, .25 x 1.50 x 36	
11	986522	1	Insulation, .25 x 1.00 x 12.00 w/Adhesive	
12	1007278SRV	1	Heating Element, 1500W/220V, 41"	
13	2405-6-6	1	Adapter, Connector, -6 JIC / -6 NPTF	
14	1006439	2	Extension Adjuster Cover	
15	100-6-16-16-5F	5	CSHH, 3/8-16 x 1.00, GR5, FT	
16	118-12-28-5/8x11	1	Shoulder Bolt, ϕ 3/4 x 1.75L, 5/8-11	
17	300-12	1	Washer, Flat, SAE, 3/4	
18	200-10-11-5	1	Nut, Hex, 5/8-11, GR5	
19	1006401	1	AOA Adjuster Assembly	
20	1006398	1	Extension Access Cover Plate	
21	100-5-18-16-5F	10	CSHH, 5/16-18 x 1.00, GR5, FT	
22	200-5-18-5	10	Nut, Hex, 5/16-18, GR5	
23	1006400	1	Extension Strikeoff Plate	
24	200-6-16-5	3	Nut, Hex, 3/8-16, GR5	
25	1008664	1	Extension Vibrator Weldment	
26	1006536	1	Endgate Bracket Plate w/Holes	
27	100-6-24-12-5F	2	CSHH, 3/8-24 x .75, GR5, FT	
28	100-14-9-40-5	1	CSHH, 7/8-9 x 2.50, GR5	
29	300-14	1	Washer, Flat, SAE, 7/8	
30	202-14-9-5	1	Nut, Jam, 7/8-9, GR5	
31	1007096SRV	1	Outer Extension Assembly - Left	
32	100-8-13-40-5	2	CSHH, 1/2-13 x 2.50, GR5	
33	200-8-13-5	2	Nut, Hex, 1/2-13, GR5	
34	1007097SRV	1	Inner Extension Assembly - Left	
35	1006395	2	Vertical Lift Bar	
36	100-8-13-28-5	6	CSHH, 1/2-13 x 1.50, GR5	
37	300-8	6	Washer, Flat, SAE, 1/2	
38	204-8-13-5	6	Nut, Lock, Stover, 1/2-13, GR5	
REF	1015990SRV	A/R	Extension Element Hose & Wiring Kit	

Illustrated Parts List

HD SCREED EXTENSION ASSEMBLY - RIGHT

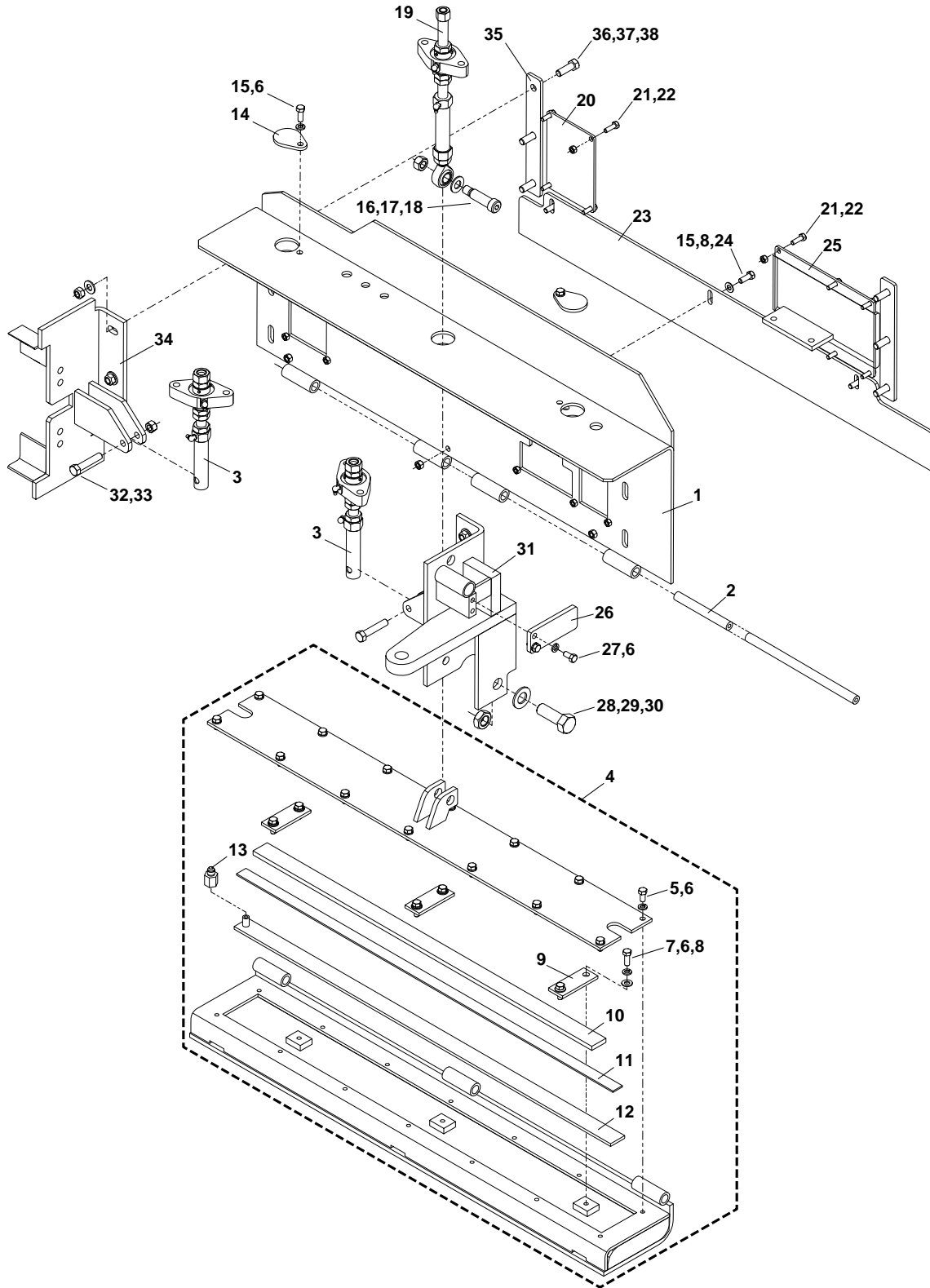


Figure 7-54. HD Screed Extension Assembly - Right

HD Screed Extension Assembly - Right

Item No	Part Number	Qty	Description	Remarks
REF	1008080SRV	1	Screed Extension Assembly - Right	Includes All Items
1	1009633SRV	1	Screed Extension Front Assembly - Right	Includes Items 2 - 28
2	854447SRV	1	Shaft, ϕ .688 x 43.50	
3	1006390	2	Vertical Adjuster Assembly	
4	1008082SRV	1	Extension Heatbox Assembly - Right	Includes Items 5 - 11
5	100-6-16-12-5F	14	CSHH, 3/8-16 x .75, GR5, FT	
6	302-6	24	Washer, Lock, 3/8	
7	100-6-24-16-5F	6	CSHH, 3/8-24 x 1.00, GR5, FT	
8	300-6	9	Washer, Flat, SAE, 3/8	
9	985123	3	Screed Extension Element Clamp	
10	985120	1	Bar, .25 x 1.50 x 36	
11	986522	1	Insulation, .25 x 1.00 x 12.00 w/Adhesive	
12	1007278SRV	1	Heating Element, 1500W/220V, 41"	
13	2405-6-6	1	Adapter, Connector, -6 JIC / -6 NPTF	
14	1006439	2	Extension Adjuster Cover	
15	100-6-16-16-5F	5	CSHH, 3/8-16 x 1.00, GR5, FT	
16	118-12-28-5/8x11	1	Shoulder Bolt, ϕ 3/4 x 1.75L, 5/8-11	
17	300-12	1	Washer, Flat, SAE, 3/4	
18	200-10-11-5	1	Nut, Hex, 5/8-11, GR5	
19	1006401	1	AOA Adjuster Assembly	
20	1006398	1	Extension Access Cover Plate	
21	100-5-18-16-5F	10	CSHH, 5/16-18 x 1.00, GR5, FT	
22	200-5-18-5	10	Nut, Hex, 5/16-18, GR5	
23	1006400	1	Extension Strikeoff Plate	
24	200-6-16-5	3	Nut, Hex, 3/8-16, GR5	
25	1008664	1	Extension Vibrator Weldment	
26	1006536	1	Endgate Bracket Plate w/Holes	
27	100-6-24-12-5F	2	CSHH, 3/8-24 x .75, GR5, FT	
28	100-14-9-40-5	1	CSHH, 7/8-9 x 2.50, GR5	
29	300-14	1	Washer, Flat, SAE, 7/8	
30	202-14-9-5	1	Nut, Jam, 7/8-9, GR5	
31	1007098SRV	1	Outer Extension Assembly - Right	
32	100-8-13-40-5	2	CSHH, 1/2-13 x 2.50, GR5	
33	200-8-13-5	2	Nut, Hex, 1/2-13, GR5	
34	1007099SRV	1	Inner Extension Assembly - Right	
35	1006395	2	Vertical Lift Bar	
36	100-8-13-28-5	6	CSHH, 1/2-13 x 1.50, GR5	
37	300-8	6	Washer, Flat, SAE, 1/2	
38	204-8-13-5	6	Nut, Lock, Stover, 1/2-13, GR5	
REF	1015990SRV	A/R	Extension Element Hose & Wiring Kit	

Illustrated Parts List

HD SCREED SLIDE PLATE ASSEMBLY

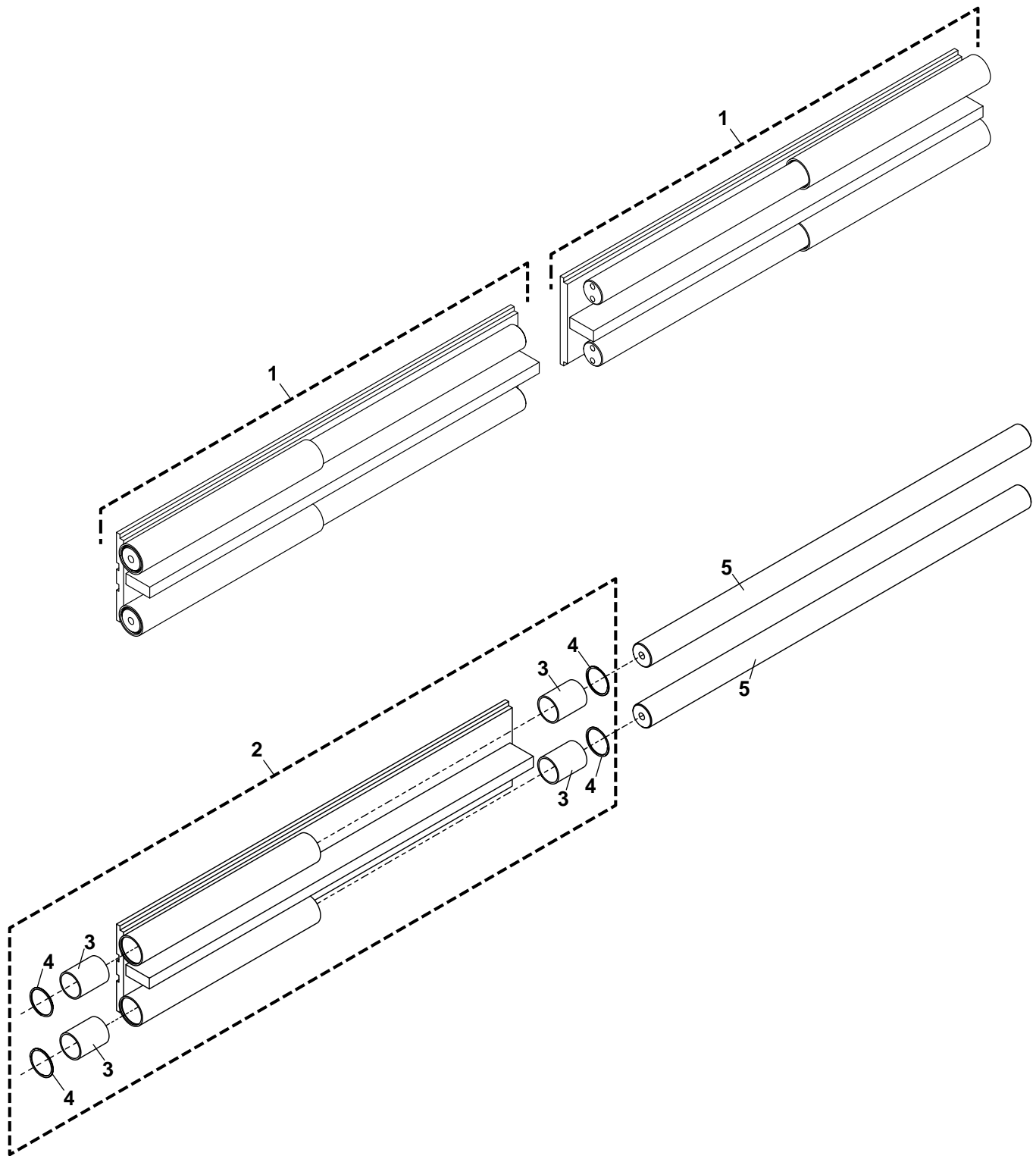


Figure 7-55. HD Screed Slide Plate Assembly

HD Screed Slide Plate Assembly

Item No	Part Number	Qty	Description	Remarks
1	1017618	2	HD Slide w/Shaft Assembly	
2	1017615	2	HD Slide w/o Shaft Assembly	(1) Per Assembly
3	1006417	8	Fiber Bushing, 2.00 ID x 2.25 OD	(4) Per Assembly
4	980380	8	Spiral Internal Spring, 2.00 ID Shaft	(4) Per Assembly
5	1006415	4	HD Chromed Screed Extension Shaft	(2) Per Assembly

Illustrated Parts List

HD SCREED PULL ARM ASSEMBLY - LEFT/RIGHT

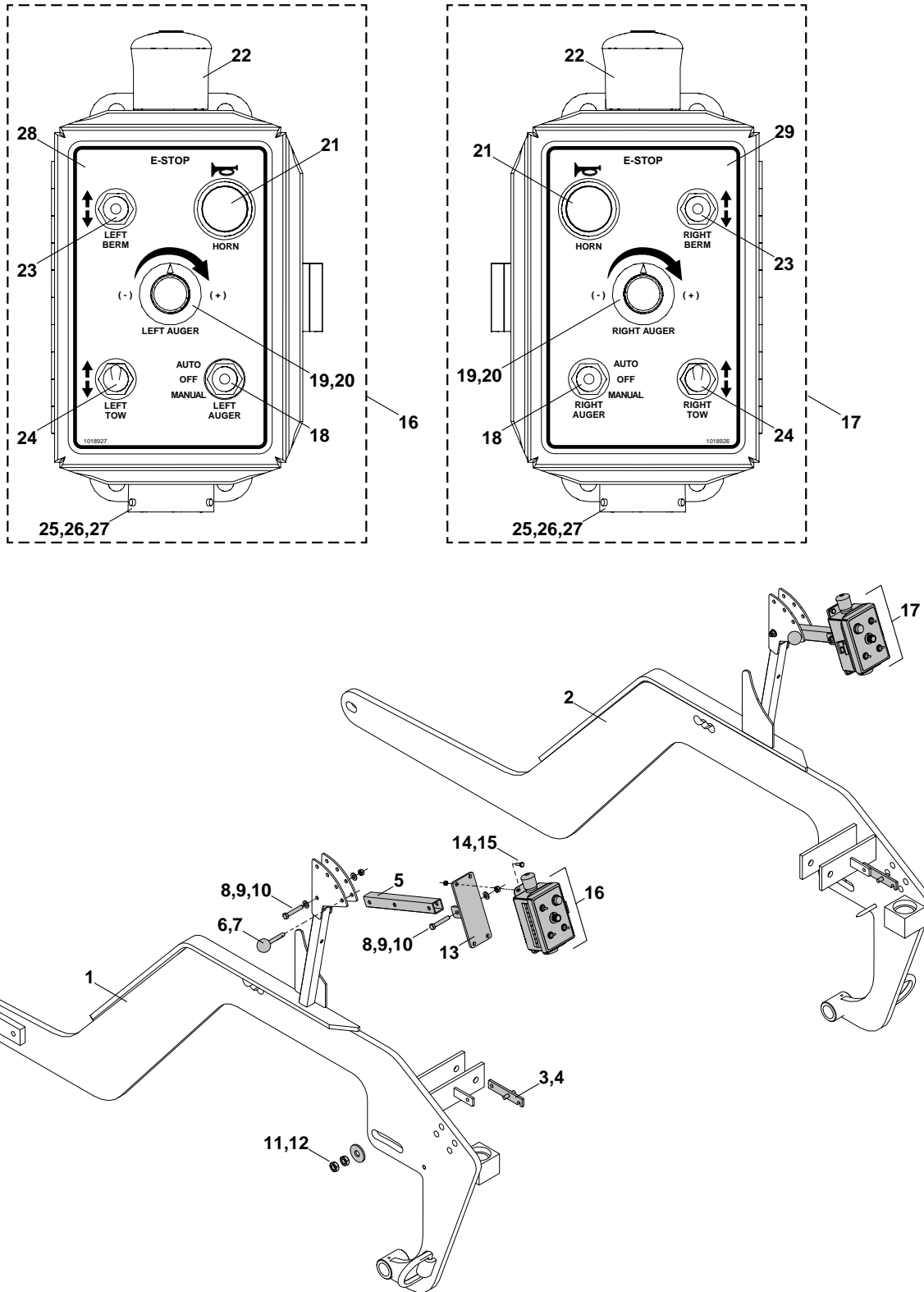


Figure 7-56. HD Screed Pull Arm Assembly - Left/Right

HD Screed Pull Arm Assembly - Left/Right

Item No	Part Number	Qty	Description	Remarks
1	1017801	1	Screed Arm Weldment, Adjustable - Left	Includes Items 3-10
2	1017802	1	Screed Arm Weldment, Adjustable - Right	Includes Items 3-10
3	855504	2	Bar, 1/4 x 1 x 5	
4	855496	2	Shaft, 3/8 CR x 1-1/2	
5	1008917	2	Pivot Tube	
6	851156	2	Round Knob, 1.375 x 3/8-16	
7	1008934	2	Quick Release Pin	
8	100-6-16-36-5	4	CSHH, 3/8-16 x 2.25, GR5	
9	300-6	6	Washer, Flat, SAE, 3/8	
10	204-6-16-5	4	Nut, Lock, Stover, 3/8-16, GR5	
11	202-10-11-5	4	Nut, Hex, Jam, 5/8-11, GR5	
12	855507	2	Pivot Guide Spacer	
13	1008928SRV	2	Screed Control Box Pivot	
14	100-4-20-12-5F	8	CSHH, 1/4-20 x .75, GR5, FT	
15	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
16	1018750	1	Screed Control Box - Left	Includes Items 18-28
17	1018749	1	Screed Control Box - Right	Includes Items 18-27,29
18	851090613	2	Toggle Switch, SPDT, 3-POS	
19	35049	2	Knob	
20	1010077	2	Rheostat, 35 Ohm/25W	Not Shown
21	982249	2	Push Button Switch	
22	1010672	2	Emergency Stop Switch, 1-NC	
23	851392	2	Toggle Switch, 3-POS, SPDT, MOM	
24	37521	2	Toggle Switch, DPDT, 3-POS, MOM	
25	984240	2	Connector, 23 Pin - HD34, Deutsch	
26	981916-01	2	Connector Nut, 24 Shell	
27	981916-02	2	Connector Lockwasher, 24 Shell	
28	1018927	1	Decal - Screed Control - Left	
29	1018926	1	Decal - Screed Control - Right	

Illustrated Parts List

HD SCREED THICKNESS ADJUSTER - STANDARD

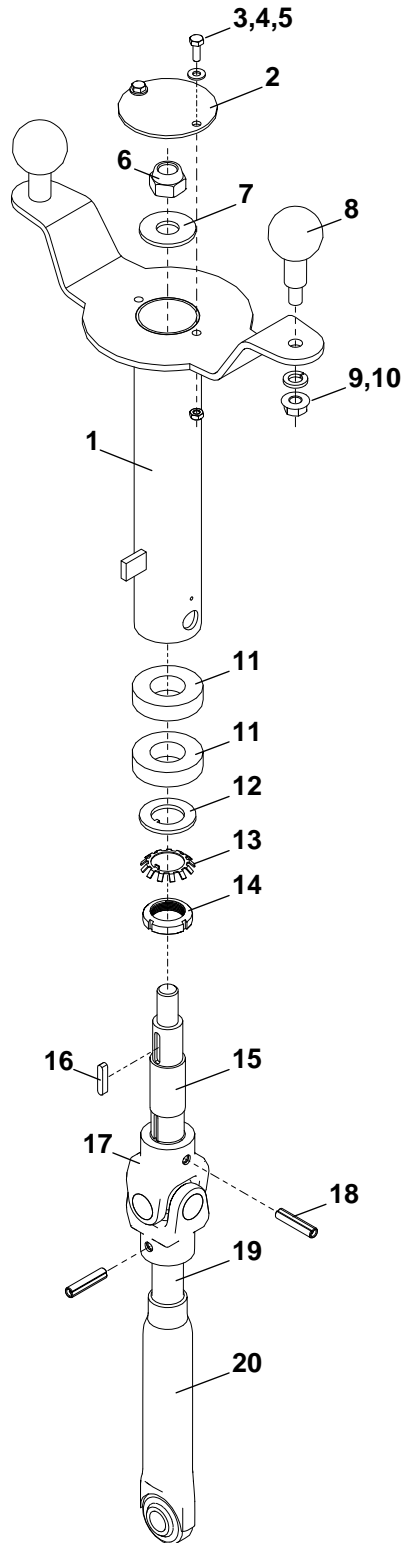


Figure 7-57. HD Screed Thickness Adjuster - Standard

HD Screed Thickness Adjuster - Standard

Item No	Part Number	Qty	Description	Remarks
GRP	1007206	1	Group - Standard Depth Screws	
REF	1011374SRV	2	Screed Thickness Adjuster Assembly	
1	1011375SRV	2	Thickness Adjuster Handle Weldment	(1) Per Assembly
2	1006434	2	Adjuster Screw Cap	(1) Per Assembly
3	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	(2) Per Assembly
4	300-4	4	Washer, Flat, SAE, 1/4	(2) Per Assembly
5	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	(2) Per Assembly
6	95998936	2	Lock Nut, PTORQ, 3/4-16	(1) Per Assembly
7	301-12	2	Washer, Flat, USS, 3/4	(1) Per Assembly
8	981574	4	Revolving Ball Knob, M12x1.75	(2) Per Assembly
9	200-M12-1.75-8.8	4	Nut, Hex, M12x1.75, C8.8	(2) Per Assembly
10	302-8	4	Washer, Lock, 1/2	(2) Per Assembly
11	810110	4	Push Roller Bearing, ø1.250	(2) Per Assembly
12	20931333	2	Tongued Washer, 1.21 ID x 1.86 OD	(1) Per Assembly
13	95200978	2	Lockwasher	(1) Per Assembly
14	95200879	2	Locknut	(1) Per Assembly
15	1011307	2	Thickness Adjuster Shaft	(1) Per Assembly
16	1011309	2	Key, .25 x .25 x 1.25	(1) Per Assembly
17	21426507	2	Universal Joint	(1) Per Assembly
18	20160644	4	Spirol Pin, ø3/8 x 1.75	(2) Per Assembly
REF	20960332	A/R	Universal Joint Bearing	
19	1006431	2	Adjuster Screw	(1) Per Assembly
20	1006429	2	Adjuster Sleeve w/Ball Joint	(1) Per Assembly

Illustrated Parts List

HD SCREED ENDGATES

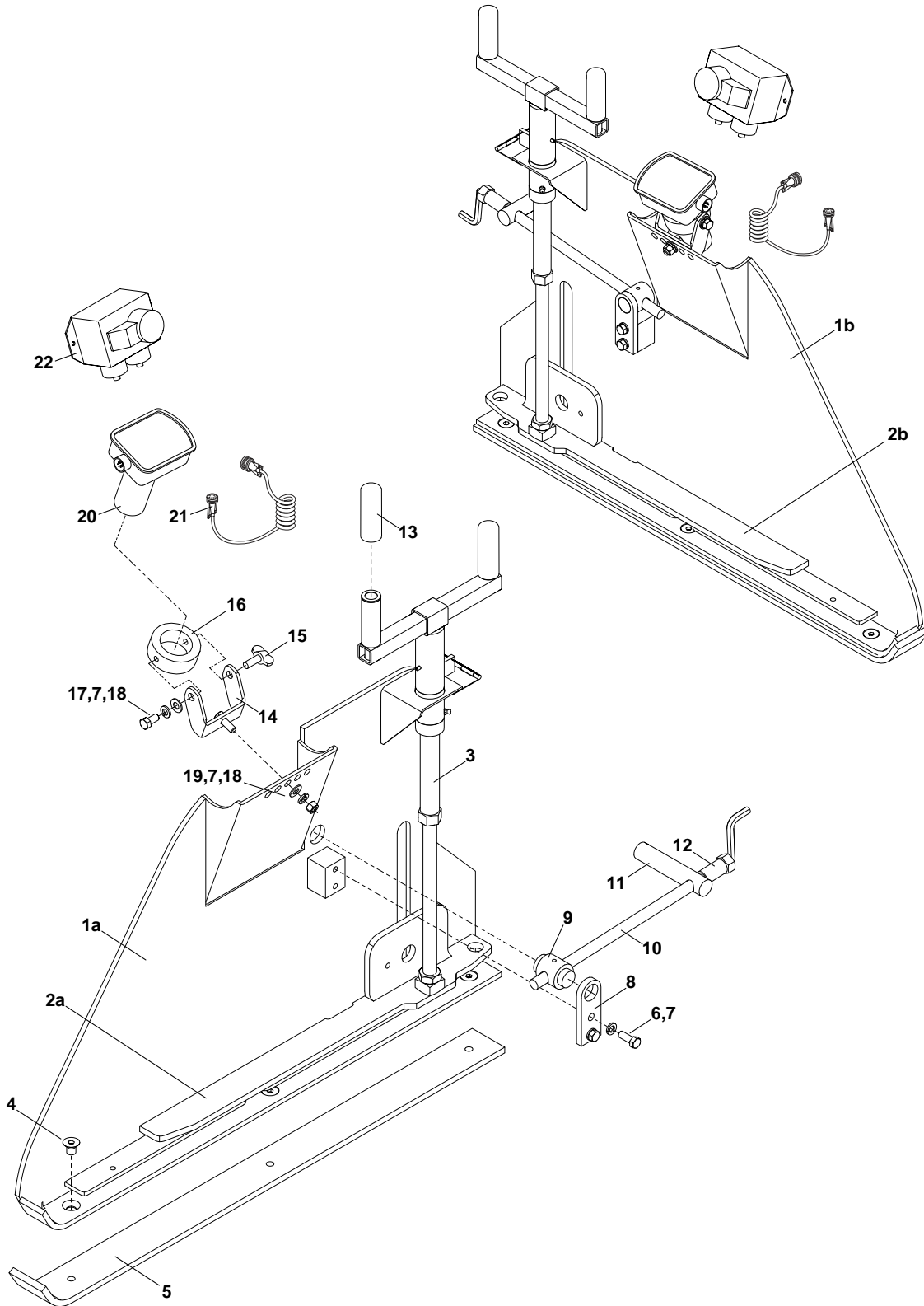


Figure 7-58. HD Screed Endgates

HD Screenshot Endgates

Item No	Part Number	Qty	Description	Remarks
GRP	1017023		Group - Standard HD Endgates	Does Not Include 20,21
REF	1015990SRV	1	Extension Element Hose & Wiring Kit	
1a	1006443SRV	1	HD Endgate Assembly - Left	Includes Items 2a, 3
1b	1006560SRV		HD Endgate Assembly - Right	Includes Items 2b, 3
2a	1011204	1	Heated Endgate Depth Screw Bracket - Left	
2b	1011203	1	Heated Endgate Depth Screw Bracket - Right	
3	890092SRV	2	Endgate Depth Screw Assembly	(1) Per Assembly
4	105-8-13-12-F	6	CSFHS, 1/2-13 x .75, FT	(3) Per Assembly
5	1006442	2	Endgate Plate	(1) Per Assembly
6	100-6-16-24-5F	4	CSHH, 3/8-16 x 1.50, GR5, FT	(2) Per Assembly
7	302-6	6	Washer, Lock, 3/8	(3) Per Assembly
8	980458	2	Tilt Screw Retainer Bar	(1) Per Assembly
9	980457	2	Tilt Screw Swivel Shaft	(1) Per Assembly
10	890081SRV	2	Tilt Screw	(1) Per Assembly
11	855579	2	CR Shaft, ϕ 1.00 x 4.50	(1) Per Assembly
12	1011235	2	Endgate Adjustment Tube	(1) Per Assembly
13	870276	4	Hand Grip	(2) Per Assembly
14	1015380	2	Sonic Sensor Bracket Weldment	(1) Per Assembly
15	920070	2	Thumb Screw, 3/8-16 x 1.00	(1) Per Assembly
16	1008905	2	Sonic Sensor Mount	(1) Per Assembly
17	100-6-16-12-5F	2	CSHH, 3/8-16 x .75, GR5, FT	(1) Per Assembly
18	300-6	4	Washer, Flat, SAE, 3/8	(2) Per Assembly
19	200-6-16-5	2	Nut, Lock, 3/8-16, GR5	(1) Per Assembly
20	980540	2	Auger Sensor	(1) Per Endgate
21	980550	2	Auger Sensor Cable	(1) Per Endgate
22	982795	2	Remote Pot, Ultrasonic	(1) Per Endgate
23	982796	2	Power Cable, Ultrasonic	Not Shown, (1) Per Endgate

Illustrated Parts List

HD SCREED VIBRATORS AND WALKBOARDS

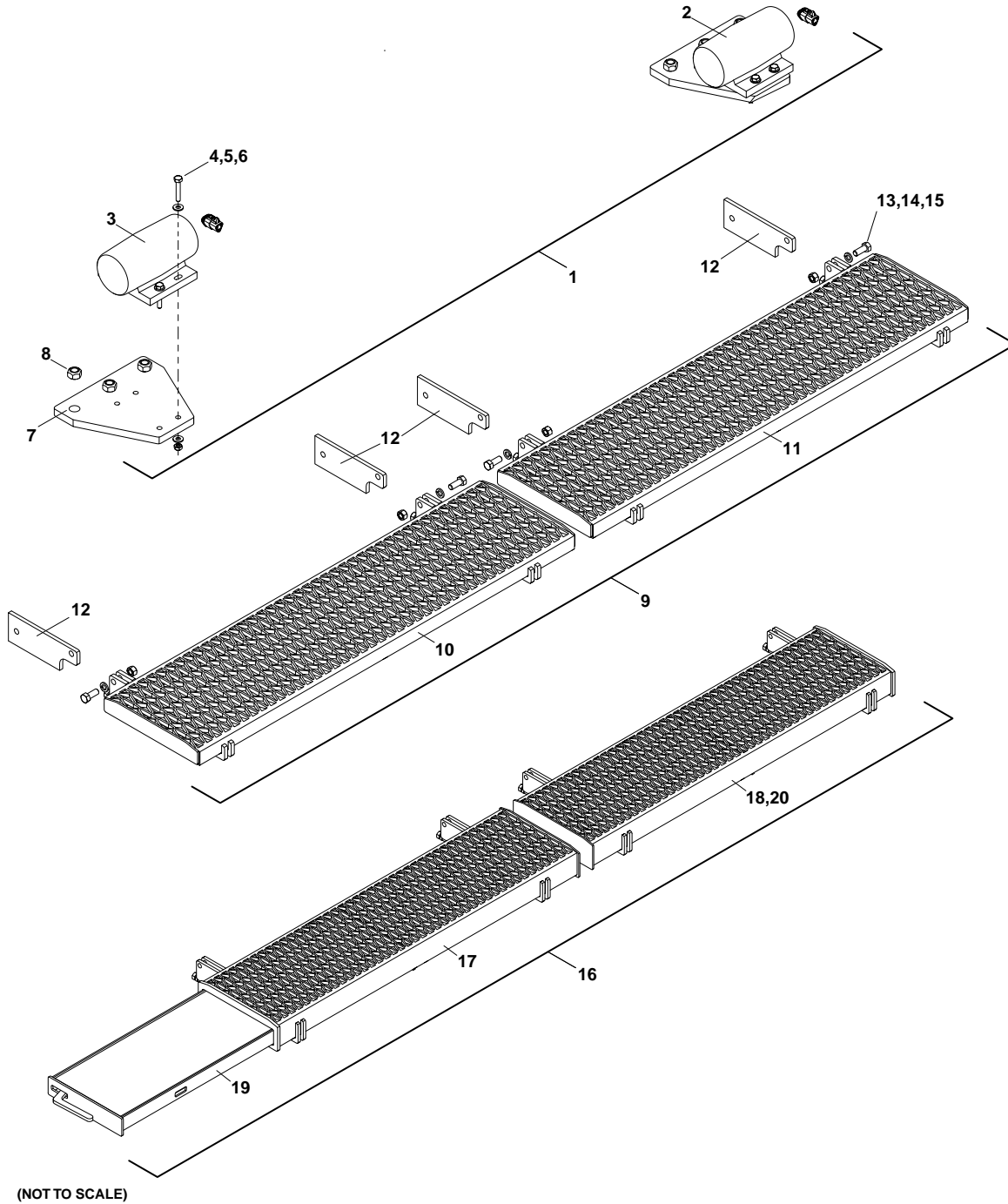


Figure 7-59. HD Screed Vibrators and Walkboards

HD Screenshot Vibrators and Walkboards

Item No	Part Number	Qty	Description	Remarks
1	1019720	1	Group - Electric Vibrators	Includes Items 2-8
2	1020052	1	Vibrator Motor Assembly, 12VDC - Right	Includes Items 4-6
3	1020051	1	Vibrator Motor Assembly, 12VDC - Left	Includes Items 4-6
4	100-4-20-24-5	8	CSHH, 1/4-20 x 1.50, GR5	
5	300-4	16	Washer, Flat, SAE, 1/4	
6	204-4-20-5	8	Nut, Lock, Stover, 1/4-20, GR5	
7	1018801	2	Electric Vibrator Mounting Plate	
8	204-8-13-5	14	Nut, Lock, Stover, 1/2-13, GR5	
9	1016995		Group - Grip Strut Walkboard	Includes 18-22
10	1016463SRV	1	Grip Strut Weldment - Left	
11	1016462SRV	1	Grip Strut Weldment - Right	
12	985163	4	Walkboard Hinge Plate	
13	100-8-13-20-5F	4	CSHH, 1/2-13 x 1.25, GR5, FT	
14	302-8	4	Washer, Lock, 1/2	
15	200-8-13-5	4	Nut, Hex, 1/2-13, GR5	
16	1017920	1	OPTION - Extendable Grip Strut Walkboard	Includes Items 17-20,12-15
17	1017489SRV	1	Walkboard Assembly - Left	
18	1017490SRV	1	Walkboard Assembly - Right	
19	1017493SRV	1	Walkboard Extension Assmby - Left	
20	1017494SRV	1	Walkboard Extension Assembly - Right	Not Shown

Illustrated Parts List

HD SCREED CITRUS TANK - LOW DECK/HIGH DECK

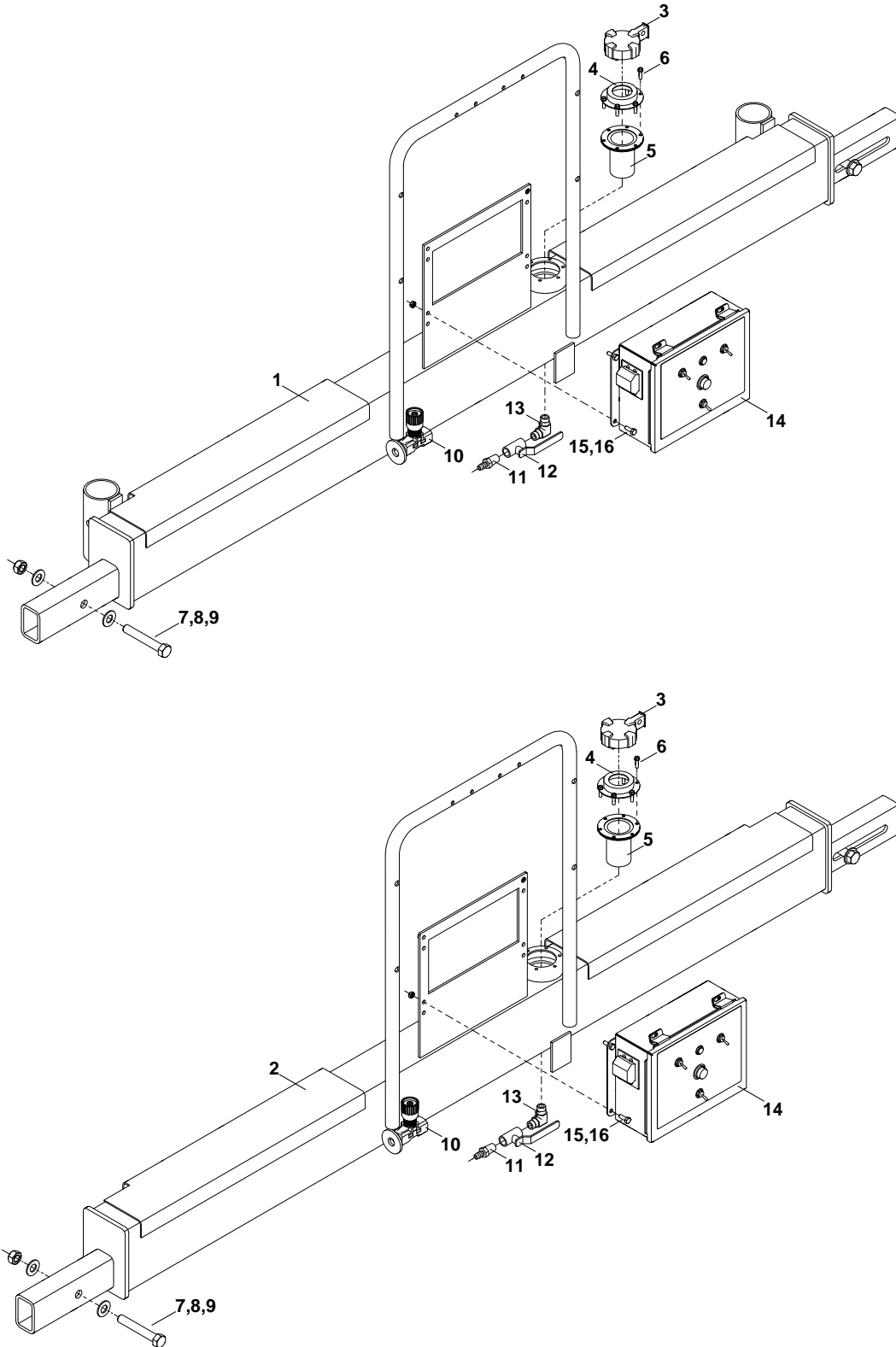


Figure 7-60. HD Screed Citrus Tank - Low Deck/High Deck

HD Screenshot Citrus Tank - Low Deck/High Deck

Item No	Part Number	Qty	Description	Remarks
GRP	1007204		Group - HD Screenshot Citrus Tank, Low Deck	Includes Items 3-9
1	1006552SRV	1	HD Screenshot Citrus Tank Assembly, Low Deck	
GRP	1018986	1	Group - HD Screenshot Citrus Tank, High Deck	Includes Items 3-9
2	1011456SRV	1	HD Screenshot Citrus Tank Assembly, High Deck	
3	140030FL	1	Tank Fuel Cap, Lockable	
4	140030FN	1	Filler Neck	
5	140030GK	1	Strainer & Gasket Kit	
6	116-#12-12	6	Screw, Self Drilling, HWH, #12 x .75	
7	100-10-11-64-5	2	CSHH, 5/8-11 x 4.00, GR5	
8	300-10	4	Washer, Flat, SAE, 5/8	
9	204-10-11-5	2	Nut, Lock, Stover, 5/8-11, GR5	
10	981941	1	Flow Control, 1/2"	
11	31959	1	Straight Fitting, 06MP-06HB, Push On	
12	480160	1	Ball Valve, 3/8	
13	5500-6-6	1	Elbow Adapter, 90°, -6 NPTF / -6 NPTF	
14	1016891	1	10kW Screenshot Control Box Assembly	See Figure 7-48 For Details
15	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	
16	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	

Illustrated Parts List

OPTION - HD BERM SCREED OVERVIEW

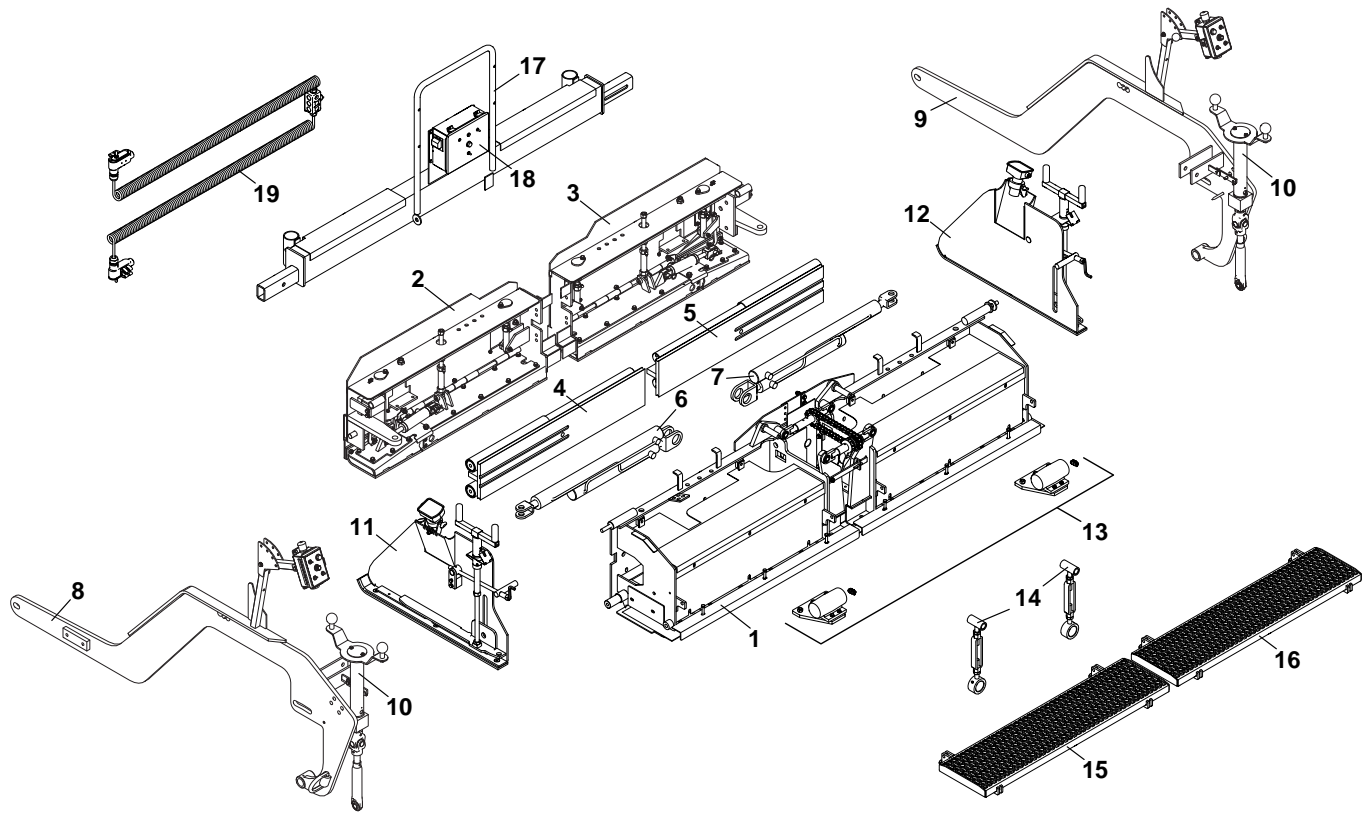


Figure 7-61. Option - HD Berm Screed Overview

Option - HD Berm Screed Overview

Item No	Reference Figure	Description	Remarks
1	7-50,7-51	HD Berm Screed Frame Assembly	
2	7-62	HD Berm Screed Extension Assembly - Left	
3	7-63	HD Berm Screed Extension Assembly - Right	
4	7-54	HD Screed Slide Plate Assembly	
5	7-54	HD Screed Slide Plate Assembly	
6	7-51	Hydraulic Cylinder - Left	
7	7-51	Hydraulic Cylinder - Right	
8	7-55	HD Screed Pull Arm Assembly, 6 Function - Left	
9	7-55	HD Screed Pull Arm Assembly, 6 Function - Right	
10	7-56	HD Screed Thickness Adjuster - Standard	
11	7-57	HD Screed Endgate Assembly, Standard- Left	
12	7-57	HD Screed Endgate Assembly, Standard - Right	
13	7-58	Screed Vibrator Assembly	
14	7-51	Manual Turnbuckle Assembly	
15	7-58	Grip Strut Walkboard Assembly - Left	
16	7-58	Grip Strut Walkboard Assembly - Right	
17	7-59	Citrus Tank Assembly	
18	7-48	10kW Screed Control Assembly	
19	7-64	Berm Remote Assembly	

Illustrated Parts List

OPTION - HD BERM SCREED EXT. ASSEMBLY - LEFT (1 OF 2)

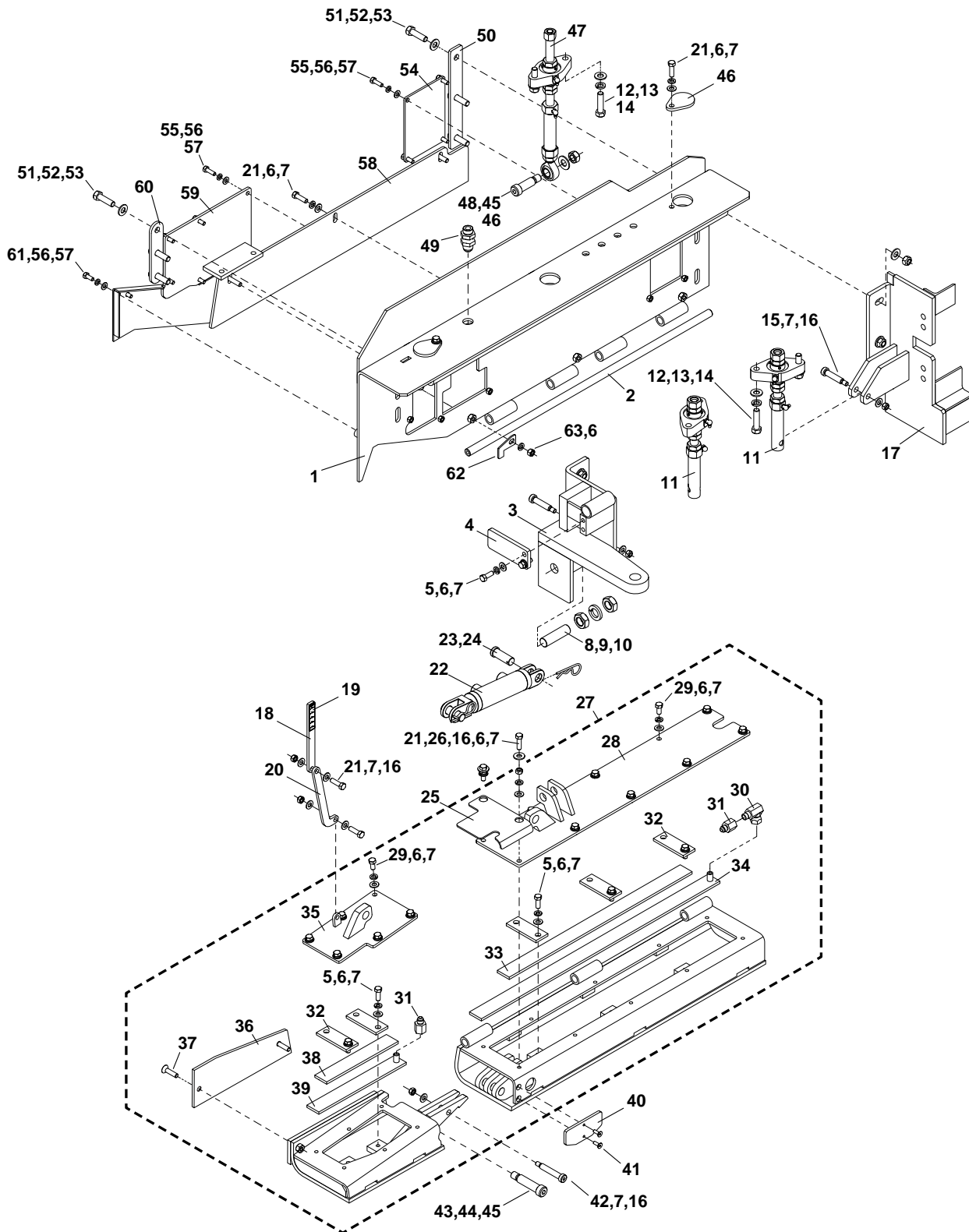


Figure 7-62. Option - HD Berm Screed Extension Assembly - Left (1 of 2)

Option - HD Berm Screed Extension Assembly - Left (1 of 2)

Item No	Part Number	Qty	Description	Remarks
REF	1015425SRV	1	Berm Extension Assembly - Left	
1	1015426SRV	1	Berm Extension Weldment - Left	
2	1015350	1	Heat Box Hinge Pin	
3	1015428SRV	1	Extension Slide Weldment	
4	1006536	1	Endgate Bracket Plate w/Holes	
5	100-6-24-16-5F	5	CSHH, 3/8-24 x 1.00, GR5, FT	
6	302-6	A/R	Washer, Lock, 3/8	
7	300-6	A/R	Washer, Flat, SAE, 3/8	
8	1016800	1	Endgate Attachment Threaded Rod	
9	202-14-9-5	2	Nut, Jam, 7/8-9, GR5	
10	302-14	1	Washer, Lock, 7/8	
11	1006390	2	Vertical Adjustment Assembly	
12	100-8-13-32-5	4	CSHH, 1/2-13 x 2.00, GR5	
13	302-8	4	Washer, Lock, 1/2	
14	300-8	4	Washer, Flat, SAE, 1/2	
15	118-8-32-3/8x16	2	Shoulder Bolt, ϕ 1/2 x 2L, 3/8-16	
16	204-6-16-5	4	Nut, Lock, Stover, 3/8-16, GR5	
17	1015427SRV	1	Extension Slide Weldment	
18	1015361	1	Berm Height Indicator Bar	
19	1015362	1	Decal - Berm Height Indicator	
20	1015360	1	Berm Height Linkage Plate	
21	100-6-16-20-5	2	CSHH, 3/8-16 x 1.25, GR5	
22	1015349	1	Berm Hydraulic Cylinder	Includes Items 23,24
23	37662	2	Clevis Pin, .750 x 2.00	
24	5928	2	Cotter Pin, .148, #9	
25	1015374	1	Top Asphalt Blocker Plate - Left	
26	301-6	2	Washer, Flat, USS, 3/8	
27	1017683SRV	1	Main Heat Box Assembly - Left	Includes Items 28 - 39
28	1015431	1	Main Heat Box Lid Weldment - Left	
29	100-6-16-12-5F	8	CSHH, 3/8-16 x .75, GR5, FT	
30	1501-6-6	1	90° Female Adapter Union NPTF / NPSM	
31	2405-6-6	2	Connector Adapter, -6 JIC / -6 NPTF	
32	985123	5	Screed Extension Element Clamp	
33	1006033	1	Element Clamp Bar	
34	1015936	1	Heating Element, 1000W/240V, 30"	
35	1015434SRV	1	Berm Lid Heat Box Weldment - Left	
36	1015372	1	Berm Asphalt Blocker Plate - Left	
37	105-6-16-24-F	2	CSFHS, 3/8-16 x 1.50, FT	

Illustrated Parts List

OPTION - HD BERM SCREED EXT. ASSEMBLY - LEFT (2 OF 2)

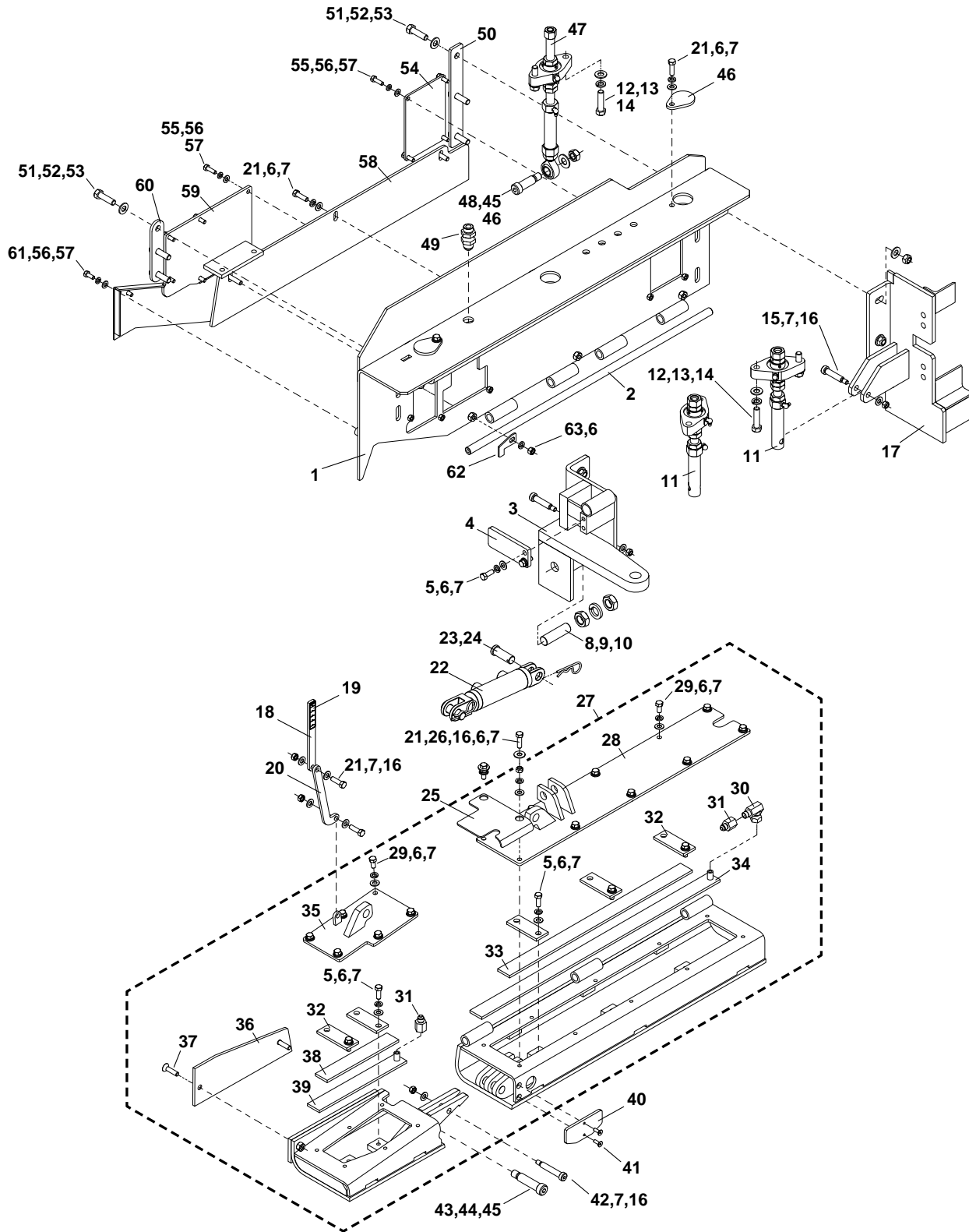


Figure 7-62 Option - HD Berm Screed Extension Assembly - Left (2 of 2)

Option - HD Berm Screed Extension Assembly - Left (2 of 2)

Item No	Part Number	Qty	Description	Remarks
38	1007991	1	Element Backup Plate, 12"	
39	1015918	1	Heating Element, 500W/240V, 11"	
40	1015358	1	Rear Asphalt Blocker Plate	
41	105-4-20-12-F	2	CSFHS, 1/4-20 x .75, FT	
42	118-8-40-3/8x16	1	Shoulder Bolt, ϕ 1/2 x 2.5L, 3/8-16	
43	118-12-40-5/8x11	1	Shoulder Bolt, ϕ 3/4 x 2.5L, 5/8-11	
44	300-10	1	Washer, Flat, 5/8	
45	204-10-11-5	1	Nut, Lock, Stover, 5/8-11, GR5	
46	1006439	2	Extension Adjuster Cover	
47	1006401	1	AOA Adjuster Assembly	
48	118-12-28-5/8x11	1	Shoulder Bolt, ϕ 3/4 x 1.75L, 5/8-11	
49	1015947	1	Screed Bulkhead Union Adapter	
50	1006395	1	Vertical Lift Bar	
51	100-8-13-28-5	6	CSHH, 1/2-13 x 1.75, GR5	
52	300-8	12	Washer, Flat, SAE, 1/2	
53	204-8-13-5	6	Nut, Lock, Stover, 1/2-13, GR5	
54	1006398	1	Extension Access Cover Plate	
55	100-5-18-16-5	10	CSHH, 5/16-18 x 1.00, GR5	
56	302-5	12	Washer, Lock, 5/16	
57	300-5	12	Washer, Flat, SAE, 5/16	
58	1015351	1	Main Asphalt Blocker Plate	
59	1015435	1	Vibrator Mount Weldment	
60	1015356	1	Adjuster Mount Plate	
61	100-5-18-12-5F	2	CSHH, 5/16-18 x .75, GR5, FT	
62	1015357	1	Hinge Rod Retainer Tab	
63	200-6-16-5	1	Nut, Hex, 3/8-16, GR5	

Illustrated Parts List

OPTION - HD BERM SCREED EXT. ASSEMBLY - RIGHT (1 OF 2)

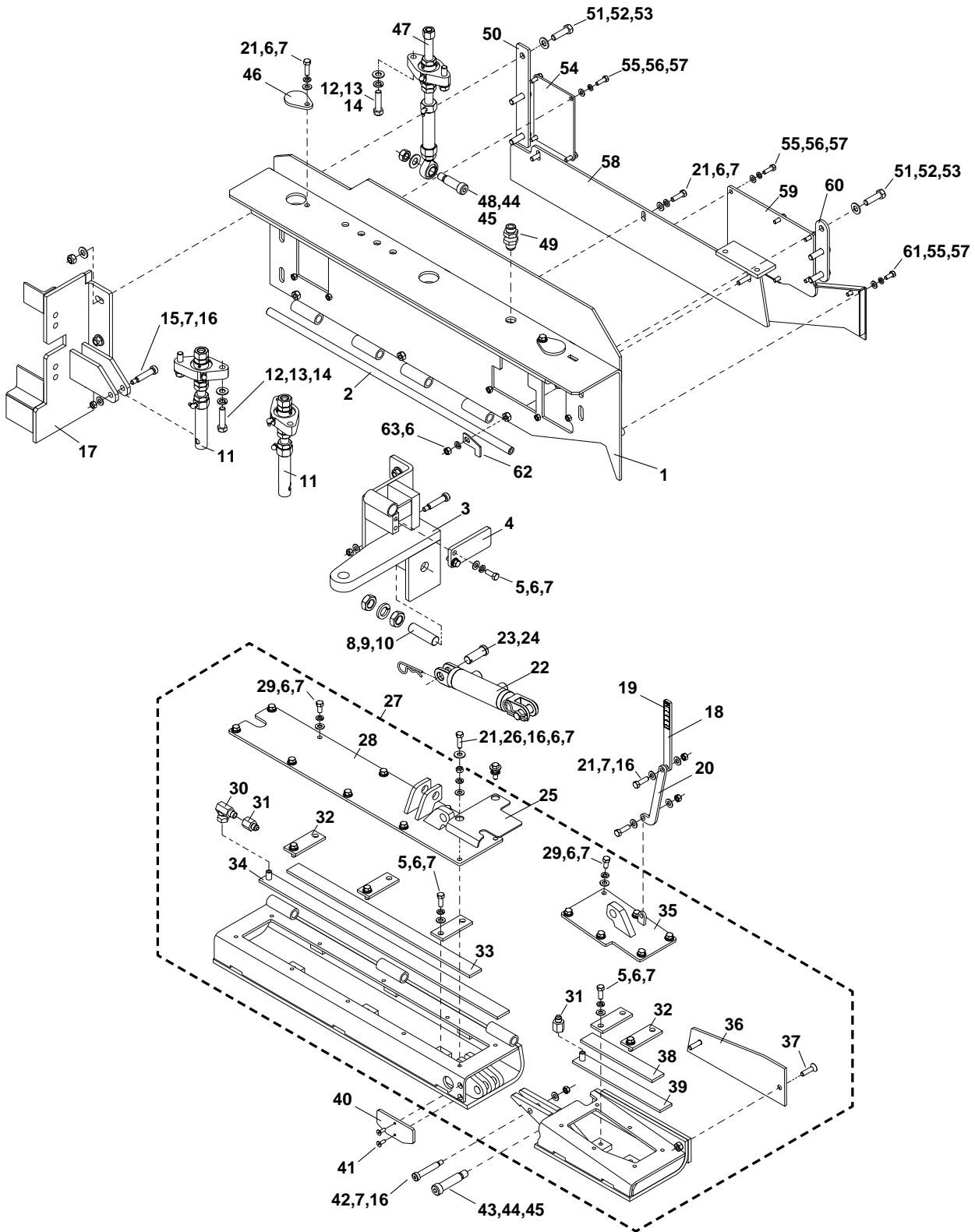


Figure 7-63. Option - HD Berm Screed Extension Assembly - Right (1 of 2)

Option - HD Berm Screed Extension Assembly - Right (1 of 2)

Item No	Part Number	Qty	Description	Remarks
REF	1015413SRV	1	Berm Extension Assembly - Right	
1	1015414SRV	1	Berm Extension Weldment - Right	
2	1015350	1	Heat Box Hinge Pin	
3	1015416SRV	1	Extension Slide Weldment	
4	1006536	1	Endgate Bracket Plate w/Holes	
5	100-6-24-16-5F	5	CSHH, 3/8-24 x 1.00, GR5, FT	
6	302-6	A/R	Washer, Lock, 3/8	
7	300-6	A/R	Washer, Flat, SAE, 3/8	
8	1016800	1	Endgate Attachment Threaded Rod	
9	202-14-9-5	2	Nut, Jam, 7/8-9, GR5	
10	302-14	1	Washer, Lock, 7/8	
11	1006390	2	Vertical Adjustment Assembly	
12	100-8-13-32-5	4	CSHH, 1/2-13 x 2.00, GR5	
13	302-8	4	Washer, Lock, 1/2	
14	300-8	4	Washer, Flat, SAE, 1/2	
15	118-8-32-3/8x16	2	Shoulder Bolt, ϕ 1/2 x 2L, 3/8-16	
16	204-6-16-5	4	Nut, Lock, Stover, 3/8-16, GR5	
17	1015415SRV	1	Extension Slide Weldment	
18	1015361	1	Berm Height Indicator Bar	
19	1015362	1	Decal - Berm Height Indicator	
20	1015360	1	Berm Height Linkage Plate	
21	100-6-16-20-5	2	CSHH, 3/8-16 x 1.25, GR5	
22	1015349	1	Berm Hydraulic Cylinder	Includes Items 23,24
23	37662	2	Clevis Pin, .750 x 2.00	
24	5928	2	Cotter Pin, .148, #9	
25	1015359	1	Top Asphalt Blocker Plate - Right	
26	301-6	2	Washer, Flat, USS, 3/8	
27	1017682SRV	1	Main Heat Box Assembly - Right	Includes Items 28 - 39
28	1015419	1	Main Heat Box Lid Weldment - Right	
29	100-6-16-12-5F	8	CSHH, 3/8-16 x .75, GR5, FT	
30	1501-6-6	1	90° Female Adapter Union NPTF / NPSM	
31	2405-6-6	2	Connector Adapter, -6 JIC / -6 NPTF	
32	985123	5	Screed Extension Element Clamp	
33	1006033	1	Element Clamp Bar	
34	1015936	1	Heating Element, 1000W/240V, 30"	
35	1015422SRV	1	Berm Lid Heat Box Weldment - Right	
36	1015348	1	Berm Asphalt Blocker Plate - Right	
37	105-6-16-24-F	2	CSFHS, 3/8-16 x 1.50, FT	

Illustrated Parts List

OPTION - HD BERM SCREED EXT. ASSEMBLY - RIGHT (2 OF 2)

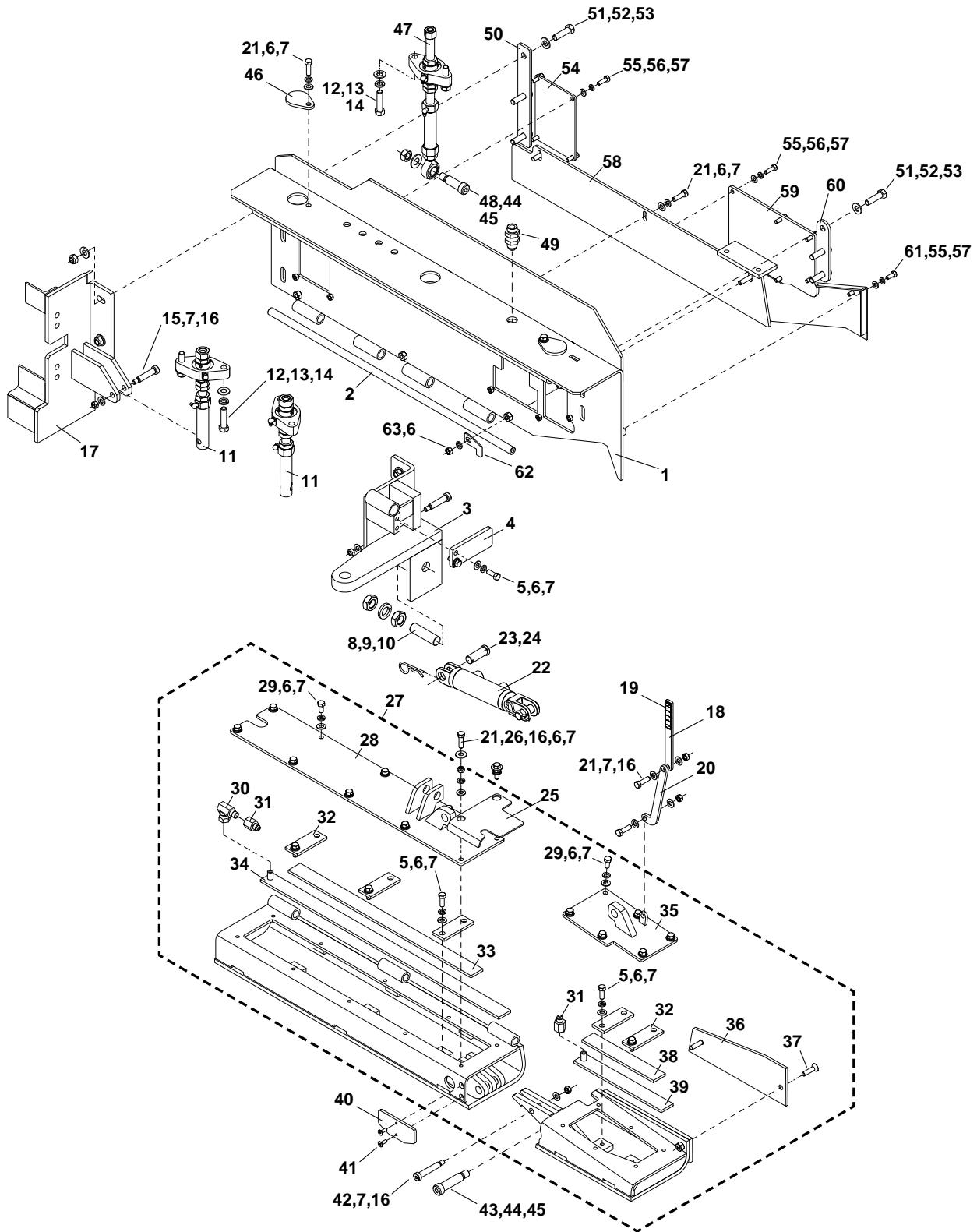


Figure 7-63. Option - HD Berm Screed Extension Assembly - Right (2 of 2)

Option - HD Berm Screed Extension Assembly - Right (2 of 2)

Item No	Part Number	Qty	Description	Remarks
38	1007991	1	Element Backup Plate, 12"	
39	1015918	1	Heating Element, 500W/240V, 11"	
40	1015358	1	Rear Asphalt Blocker Plate	
41	105-4-20-12-F	2	CSFHS, 1/4-20 x .75, FT	
42	118-8-40-3/8x16	1	Shoulder Bolt, \varnothing 1/2 x 2.5L, 3/8-16	
43	118-12-40-5/8x11	1	Shoulder Bolt, \varnothing 3/4 x 2.5L, 5/8-11	
44	300-10	1	Washer, Flat, 5/8	
45	204-10-11-5	1	Nut, Lock, Stover, 5/8-11, GR5	
46	1006439	2	Extension Adjuster Cover	
47	1006401	1	AOA Adjuster Assembly	
48	118-12-28-5/8x11	1	Shoulder Bolt, \varnothing 3/4 x 1.75L, 5/8-11	
49	1015947	1	Screed Bulkhead Union Adapter	
50	1006395	1	Vertical Lift Bar	
51	100-8-13-28-5	6	CSHH, 1/2-13 x 1.75, GR5	
52	300-8	12	Washer, Flat, SAE, 1/2	
53	204-8-13-5	6	Nut, Lock, Stover, 1/2-13, GR5	
54	1006398	1	Extension Access Cover Plate	
55	100-5-18-16-5	10	CSHH, 5/16-18 x 1.00, GR5	
56	302-5	12	Washer, Lock, 5/16	
57	300-5	12	Washer, Flat, SAE, 5/16	
58	1015351	1	Main Asphalt Blocker Plate	
59	1015423	1	Vibrator Mount Weldment	
60	1015356	1	Adjuster Mount Plate	
61	100-5-18-12-5F	2	CSHH, 5/16-18 x .75, GR5, FT	
62	1015357	1	Hinge Rod Retainer Tab	
63	200-6-16-5	1	Nut, Hex, 3/8-16, GR5	

Illustrated Parts List

OPTION - HD BERM SCREED REMOTE ASSEMBLY

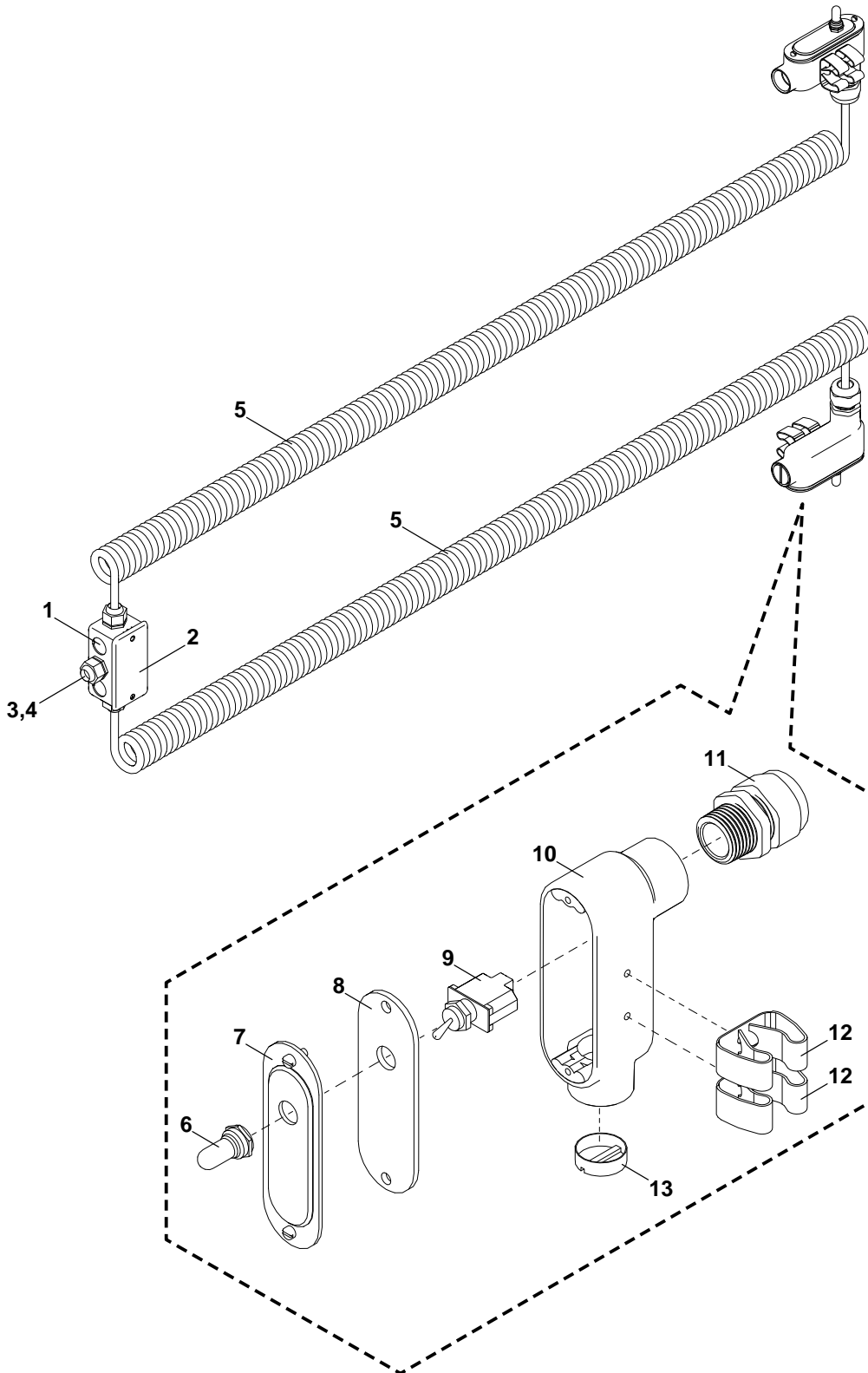


Figure 7-64. Option - HD Berm Screed Remote Assembly

Option - HD Berm Screed Remote Assembly

Item No	Part Number	Qty	Description	Remarks
REF	1017180	1	Selector Valve Berm Remote Assembly	
1	920238-6	1	Junction Box	
2	920238-7	1	Junction Box Blank Cover	
3	3200DI	3	Water Tight Connector, 1/2 x 1/2 MPT	
4	LN1010	3	Conduit Lock Nut, 1/2	
5	900082	2	12V Curly Cord	
6	851440	2	Toggle Switch Weather Boot	
7	920283-3	2	Condulet Cover, 3/4	
8	920283-4	2	Condulet Box Gasket, 3/4	
9	851391	2	Toggle Switch, SPST, 2-POS	
10	920283-2	2	Aluminum Condulet, 3/4	
11	3400DI	2	Water Tight Connector, 3/4 x 3/4 MPT	
12	920283-1	4	Gripper Clamp	
13	920283-5	2	Aluminum Condulet Plug, 3/4	

Illustrated Parts List

OPTION - HD 3:1 DEPTH SCREWS (1 OF 2)

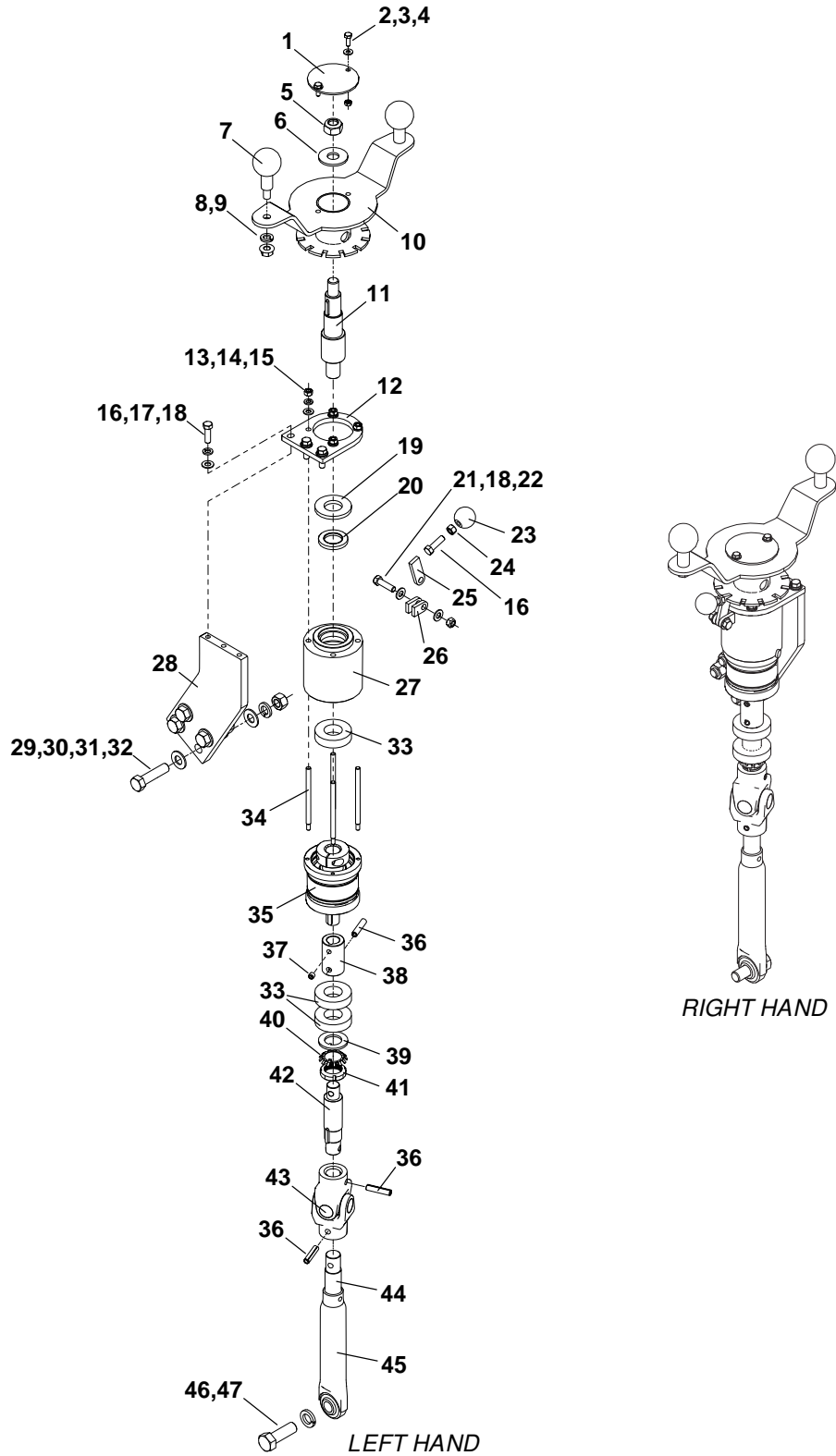


Figure 7-65. Option - HD 3:1 Depth Screws (1 of 2)

Option - HD 3:1 Depth Screws (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1015263SRV		Option - Depth Screws, 3:1 Adjusters	
REF	1014929	1	Planetary Drive Flight Screw Assembly - Left	
REF	1014928	1	Planetary Drive Flight Screw Assembly - Right	
1	1006434	2	Adjuster Screw Cap	(1) Per Assembly
2	100-4-20-12-5F	4	CSHH, 1/4-20 x .75, GR5, FT	(2) Per Assembly
3	300-4	4	Washer, Flat, SAE, 1/4	(2) Per Assembly
4	204-4-20-5	4	Nut, Lock, Stover, 1/4-20, GR5	(2) Per Assembly
5	205-12-10-5	2	Nut, Lock, Nylon, 3/4-10, GR5	(1) Per Assembly
6	301-12	2	Washer, Flat, USS, 3/4	(1) Per Assembly
7	981574	4	Revolving Ball Knob, M12x1.75	(2) Per Assembly
8	200-M12-1.75-8.8	4	Nut, Hex, M12x1.75, C8.8	(2) Per Assembly
9	302-8	4	Washer, Lock, 1/2	(2) Per Assembly
10	1014115	2	Thickness Weldment	(1) Per Assembly
11	1014925	2	Upper Planetary Drive Shaft	(1) Per Assembly
12	1014922	2	Top Planetary Mounting Plate	(1) Per Assembly
13	200-5-18-5	8	Nut, Hex, 5/16-18, GR5	(4) Per Assembly
14	302-5	8	Washer, Lock, 5/16	(4) Per Assembly
15	300-5	8	Washer, Flat, SAE, 5/16	(4) Per Assembly
16	100-6-16-20-5	8	CSHH, 3/8-16 x 1.25, GR5	(4) Per Assembly
17	302-6	6	Washer, Lock, 3/8	(3) Per Assembly
18	300-6	10	Washer, Flat, SAE, 3/8	(5) Per Assembly
19	1015285	2	Nylon Dust Cover	(1) Per Assembly
20	1014930	2	Shaft Seal, 1.25 ID x 2.00 OD	(1) Per Assembly
21	100-6-16-22-5	2	CSHH, 3/8-16 x 1.375, GR5	(1) Per Assembly
22	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	(1) Per Assembly
23	851156	2	Round Ball Knob, 3/8-16 x 1.375	(1) Per Assembly
24	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	(1) Per Assembly
25	981487	2	1/4 x 3/4 FB x 2-1/4 w/Hole	(1) Per Assembly
26	1014068	4	Flight Screw Lock Mounting Tab	(2) Per Assembly
27	1014924	2	Planetary Adapter Tube	(1) Per Assembly
28	1014923	2	Side Planetary Mount Plate	(1) Per Assembly
29	100-10-11-40-5	8	CSHH, 5/8-11 x 2.50, GR5	(4) Per Assembly
30	300-10	16	Washer, Flat, SAE, 5/8	(8) Per Assembly
31	302-10	8	Washer, Lock, 5/8	(4) Per Assembly
32	200-10-11-5	8	Nut, Lock, 5/8-11, GR5	(4) Per Assembly
33	810110	6	Push Roller Bearing, 1.250	(3) Per Assembly
34	1014931	8	Planetary Threaded Rod	(4) Per Assembly
35	1014921	2	Planetary Drive Reduction Box	(1) Per Assembly

Illustrated Parts List

OPTION - HD 3:1 DEPTH SCREWS (2 OF 2)

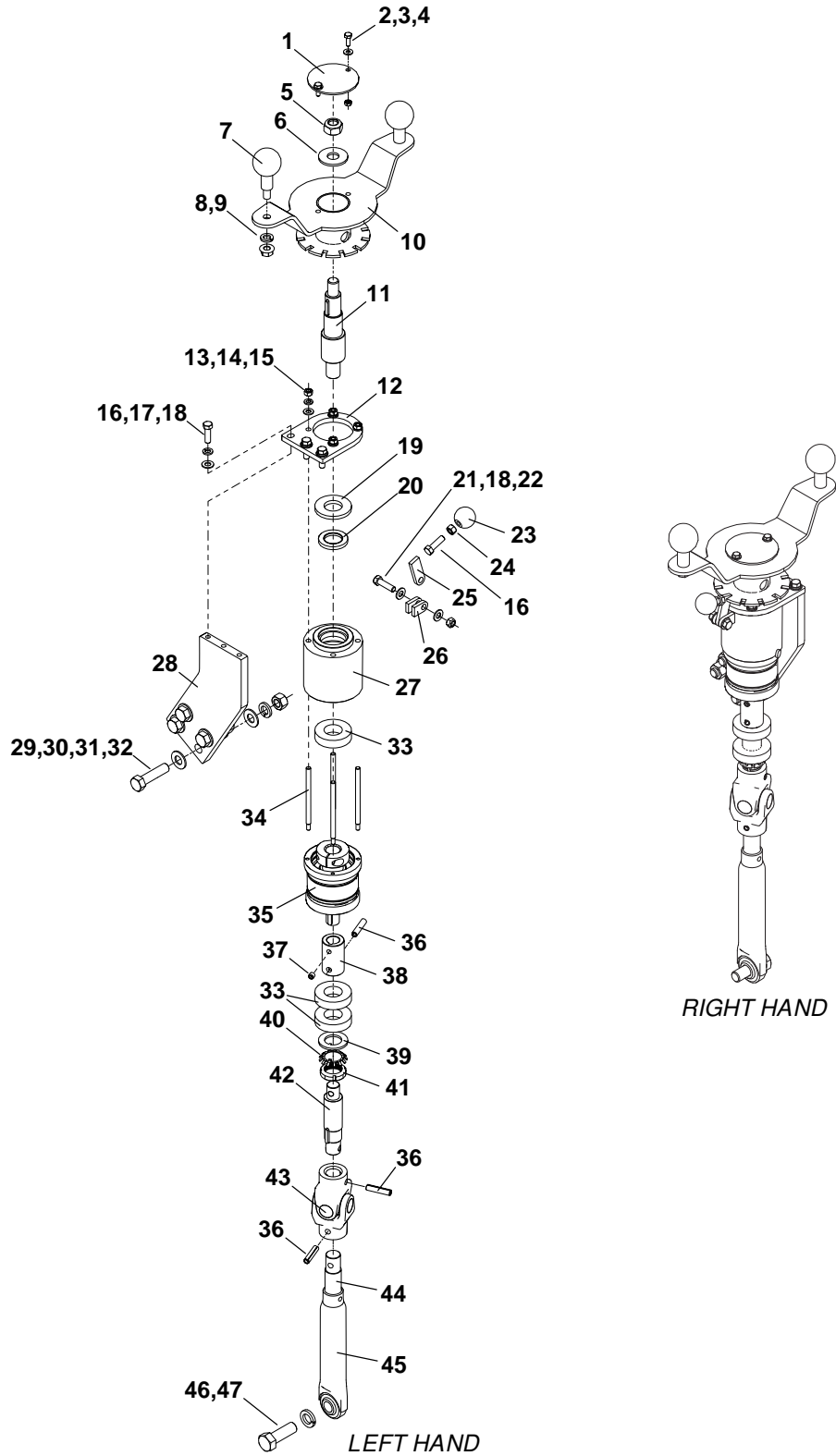


Figure 7-65 Option - HD 3:1 Depth Screws (2 of 2)

Option - HD 3:1 Depth Screws (2 of 2)

Item No	Part Number	Qty	Description	Remarks
36	20160644	6	Spirol Pin, ø3/8 x 1.750	(3) Per Assembly
37	113-6-16-6	2	Set Screw, HSKT, Cup, 3/8-16 x .375	(1) Per Assembly
38	1014927	2	Planetary Box Coupler	(1) Per Assembly
39	20931333	2	Tongued Washer, 1.21 ID x 1.86 OD	(1) Per Assembly
40	95200978	2	Lockwasher	(1) Per Assembly
41	95200879	2	Locknut	(1) Per Assembly
42	1014926	2	Lower Planetary Drive Shaft	(1) Per Assembly
43	21426507	2	Universal Joint	(1) Per Assembly
REF	20960332	A/R	Universal Joint Bearing	As Needed
44	1006431	2	Adjuster Screw	(1) Per Assembly
45	1006429	2	Adjuster Sleeve w/Ball Joint	(1) Per Assembly
46	100-12-10-36-5	2	CSHH, 3/4-10 x 2.25, GR5	(1) Per Assembly
47	302-12	2	Washer, Lock, 3/4	(1) Per Assembly

Illustrated Parts List

OPTION - HD SCREED HEATED ENDGATES

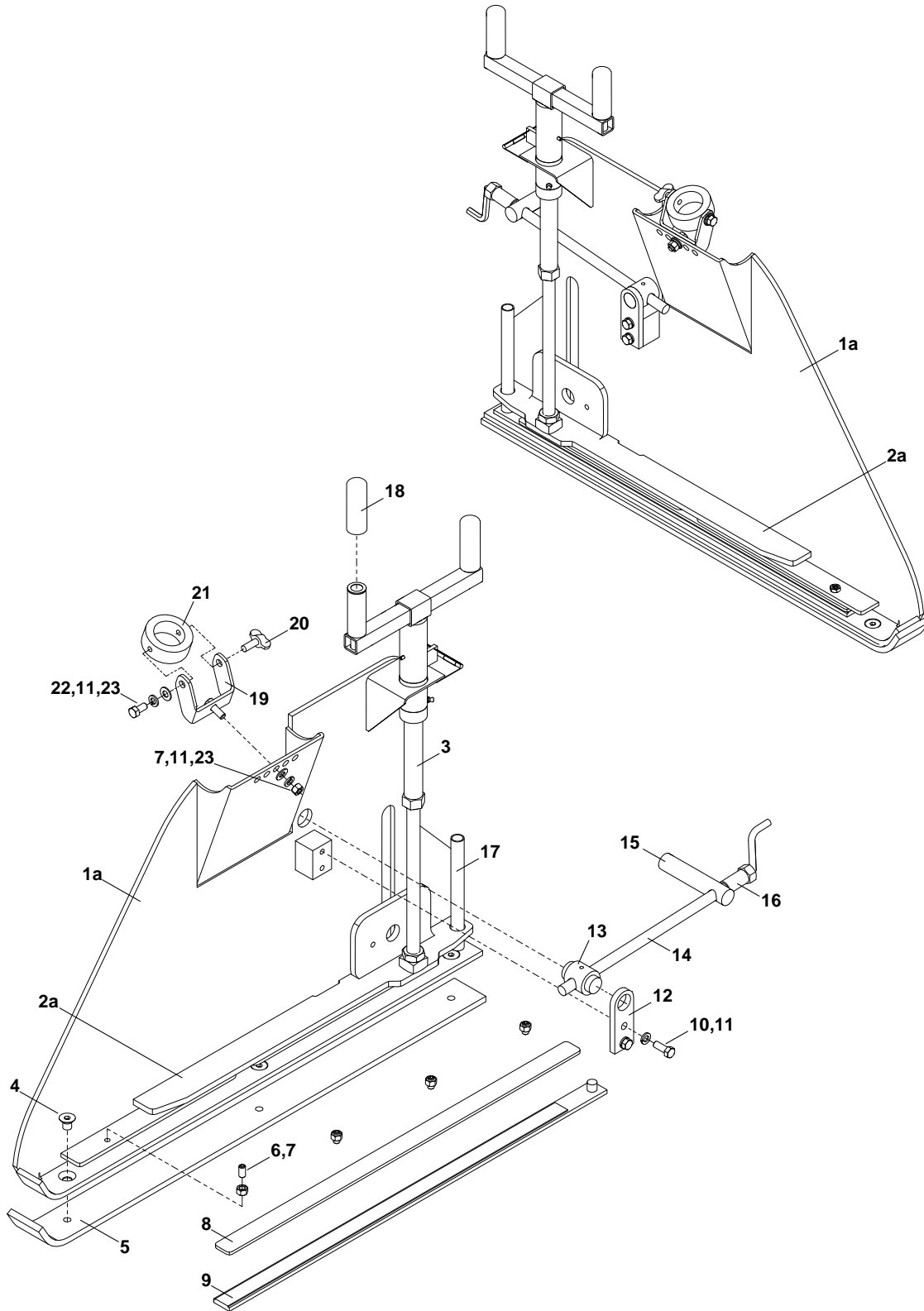


Figure 7-66. Option - HD Screed Heated Endgates

Option - HD Screed Heated Endgates

Item No	Part Number	Qty	Description	Remarks
GRP	1017024		Group - Heated HD Endgates	
REF	1015990SRV		Extension Element Hose & Wiring Kit	
REF	1011143SRV	1	Heated HD Endgate Assembly - Left	Includes Items 1a, 4 - 23
REF	1011144SRV	1	Heated HD Endgate Assembly - Right	Includes Items 1b, 4 - 23
1a	1006443SRV	1	HD Endgate Assembly - Left	Includes Items 2a, 3
1b	1006560SRV		HD Endgate Assembly - Right	Includes Items 2b, 3
2a	1011204	1	Heated Endgate Depth Screw Bracket - Left	
2b	1011203	1	Heated Endgate Depth Screw Bracket - Right	
3	890092SRV	2	Endgate Depth Screw Assembly	(1) Per Assembly
4	105-8-13-12-F	6	CSFHS, 1/2-13 x .75, FT	(3) Per Assembly
5	1006442	2	Endgate Plate	(1) Per Assembly
6	113-6-16-12	8	Set Screw, HSKT, Cup, 3/8-16 x .75	(4) Per Assembly
7	200-6-16-5	10	Nut, Hex, 3/8-16, GR5	(4) Per Assembly
8	1011155	2	Element Backup Bar	(1) Per Assembly
9	1011158	2	Heating Element, 500W/220V, 30"	(1) Per Assembly
10	100-6-16-24-5F	4	CSHH, 3/8-16 x 1.50, GR5, FT	(2) Per Assembly
11	302-6	6	Washer, Lock, 3/8	(3) Per Assembly
12	980458	2	Tilt Screw Retainer Bar	(1) Per Assembly
13	980457	2	Tilt Screw Swivel Shaft	(1) Per Assembly
14	890081SRV	2	Tilt Screw	(1) Per Assembly
15	855579	2	CR Shaft, ø1.00 x 4.50	(1) Per Assembly
16	1011235	2	Endgate Adjustment Tube	(1) Per Assembly
17	1011491	2	Element Wire Routing Tube	(1) Per Assembly
18	870276	4	Hand Grip	(2) Per Assembly
19	1015380	2	Sonic Sensor Bracket Weldment	(1) Per Assembly
20	920070	2	Thumb Screw, 3/8-16 x 1.00	(1) Per Assembly
21	1008905	2	Sonic Sensor Mount	(1) Per Assembly
22	100-6-16-12-5F	2	CSHH, 3/8-16 x .75, GR5, FT	(1) Per Assembly
23	300-6	4	Washer, Flat, SAE, 3/8	(2) Per Assembly

Illustrated Parts List

OPTION - HD SCREED HEATED SAFETY EDGE ENDGATES

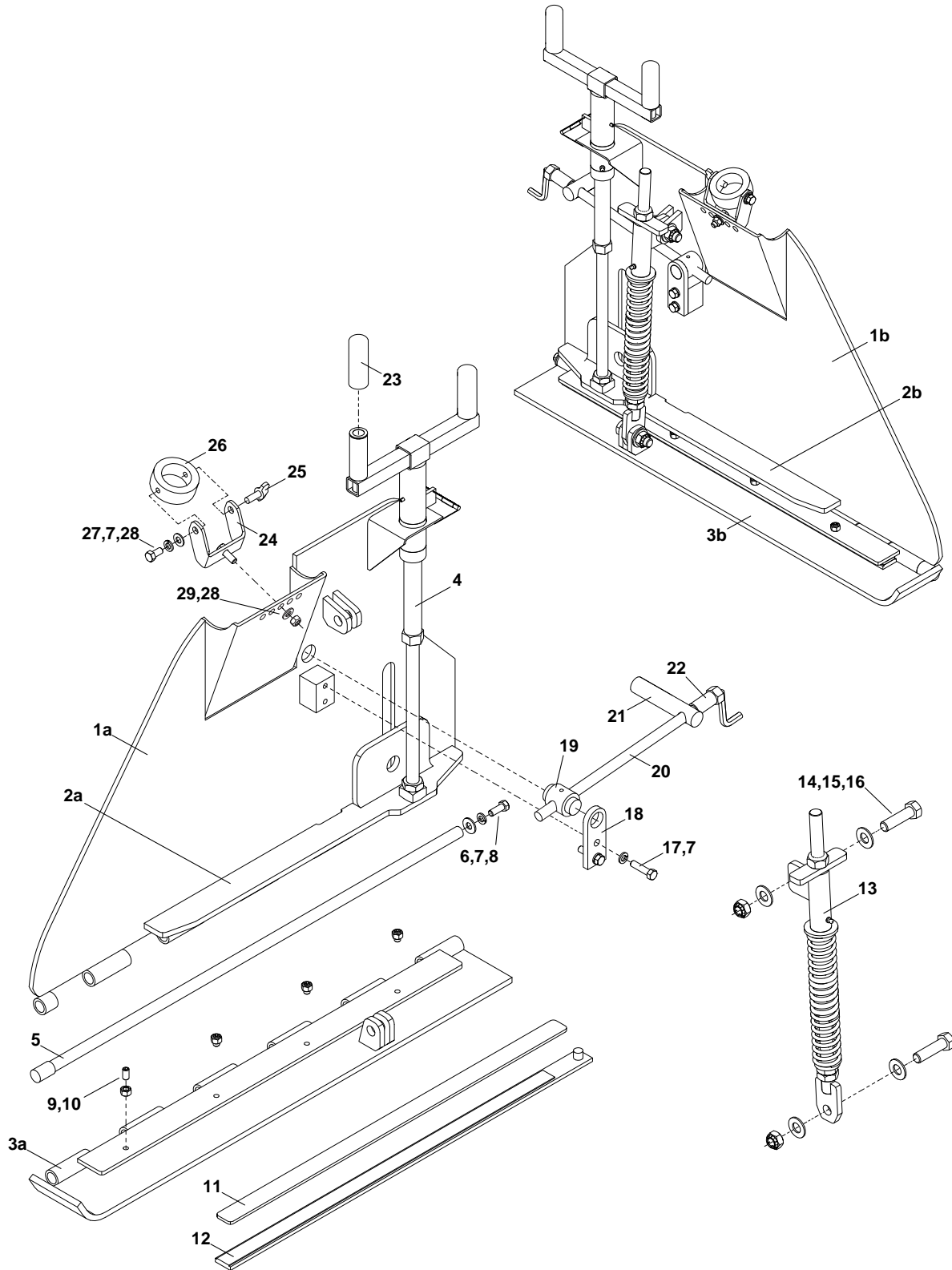


Figure 7-67. Option - HD Screed Heated Safety Edge Endgates

Option - HD Screed Heated Safety Edge Endgates

Item No	Part Number	Qty	Description	Remarks
GRP	1017025		Group - HD Heated Endgates and Safety Edge	
REF	1015990SRV	1	Extension Element Hose & Wiring Kit	
REF	1011187SRV	1	Heated Edge HD Endgate Assembly - Left	Includes Items 1a,3a,5 - 29
REF	1011156SRV	1	Heated Edge HD Endgate Assembly - Right	Includes Items 1b,3b,5 - 29
1a	1011189	1	Heated Safety Edge Main Plate Weldment - Left	Includes Items 2a, 4
1b	1011161	1	Heated Safety Edge Main Plate Weldment - Right	Includes Items 2b, 4
2a	1011206	1	Safety Edge Depth Screw Bracket - Left	
2b	1011205	1	Safety Edge Depth Screw Bracket - Right	
3a	1011190	1	Heated Safety Edge HD Skid Weldment - Left	
3b	1011165	1	Heated Safety Edge HD Skid Weldment - Right	
4	890092SRV	2	Depth Screw Endgate Assembly	(1) Per Assembly
5	1011195	2	Heated Safety Edge HD Hinge Pin Weldment	(1) Per Assembly
6	100-6-16-16-5F	2	CSHH, 3/8-16 x 1.00, GR5, FT	(1) Per Assembly
7	302-6	6	Washer, Lock, 3/8	(3) Per Assembly
8	301-6	2	Washer, Flat, USS, 3/8	(1) Per Assembly
9	113-6-16-12	8	Set Screw, HSKT, Cup, 3/8-16 x .75	(4) Per Assembly
10	200-6-16-5	8	Nut, Hex, 3/8-16, GR5	(4) Per Assembly
11	1011155	2	Element Backup Bar	(1) Per Assembly
12	1011158	2	Heating Element, 500W/220V, 30"	(1) Per Assembly
13	1011453	2	Safety Edge Spring Mechanism	(1) Per Assembly
14	100-10-11-36-5	4	CSHH, 5/8-11 x 2.25, GR5	(2) Per Assembly
15	300-10	8	Washer, Flat, SAE, 5/8	(4) Per Assembly
16	217-10-11	4	Nut, Lock, Flexloc, 5/8-11, Full, LT	(2) Per Assembly
17	100-6-16-24-5F	4	CSHH, 3/8-16 x 1.50, GR5, FT	(2) Per Assembly
18	980458	2	Tilt Screw Retainer Bar	(1) Per Assembly
19	980457	2	Tilt Screw Swivel Shaft	(1) Per Assembly
20	890081SRV	2	Tilt Screw	(1) Per Assembly
21	855579	2	CR Shaft, ø1.00 x 4.50	(1) Per Assembly
22	1011235	2	Endgate Adjustment Tube	(1) Per Assembly
23	870276	4	Hand Grip	(2) Per Assembly
24	1015380	2	Sonic Sensor Bracket Weldment	(1) Per Assembly
25	920070	2	Thumb Screw, 3/8-16 x 1.00	(1) Per Assembly
26	1008905	2	Sonic Sensor Mount	(1) Per Assembly
27	100-6-16-12-5F	2	CSHH, 3/8-16 x .75, GR5, FT	(1) Per Assembly
28	300-6	4	Washer, Flat, SAE, 3/8	(2) Per Assembly
29	204-6-16-5	2	Nut, Lock, Stover, 3/8-16, GR5	(1) Per Assembly

Illustrated Parts List

OPTION - SCREED AUTOMATIC HEAT CONTROLLER

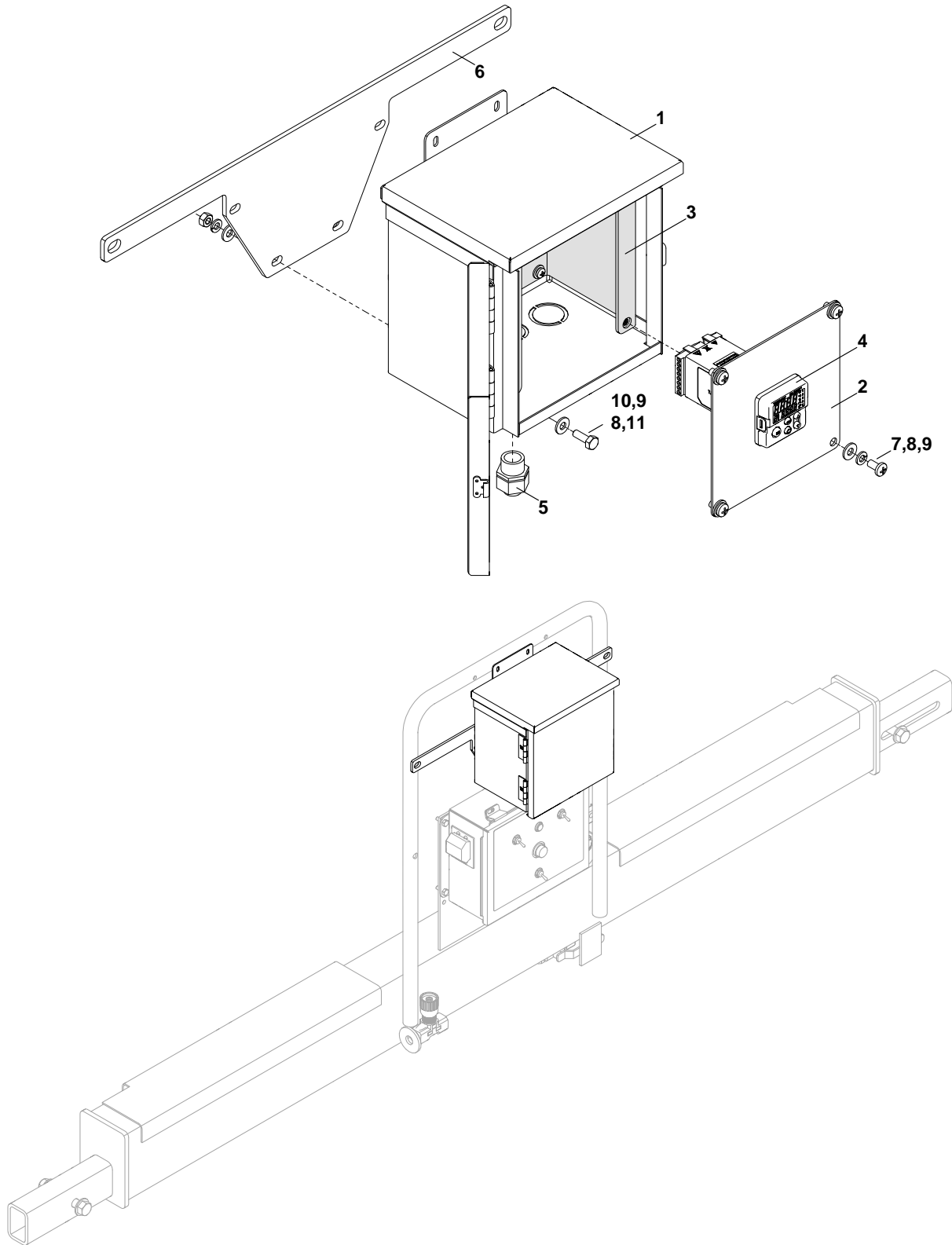


Figure 7-68. Option - Screed Automatic Heat Controller

Option - Screed Automatic Heat Controller

Item No	Part Number	Qty	Description	Remarks
OPT	1017744	1	OPTION - Automatic Temperature Controller	
1	1017395	1	Enclosure, Rain-Tight, 8H x 8W x 6D	
2	1017739	1	Mounting Plate, Watlow	
3	1017737	1	Mounting Bracket, Watlow	
4	1017392	1	Temperature Controller, Watlow PM6	
5	3200DI	1	Connector, Water-Tight, 1/2 x 1/2 MPT	
6	1017746	1	Control Box Mounting Plate	
7	122-4-20-8F	4	PHMS, Cross, 1/4-20 x .50, FT	
8	302-4	6	Washer, Lock, 1/4	
9	300-4	8	Washer, Flat, SAE, 1/4	
10	100-4-20-12-5F	2	CSHH, 1/4-20 x .75, GR5, FT	
11	200-4-20-5	2	Nut, Hex, 1/4-20, GR5	
12	1017394	1	RTD Sensor, Bolt-On, 100Ω	

Illustrated Parts List

OPTION - DUAL STEERING WHEELS

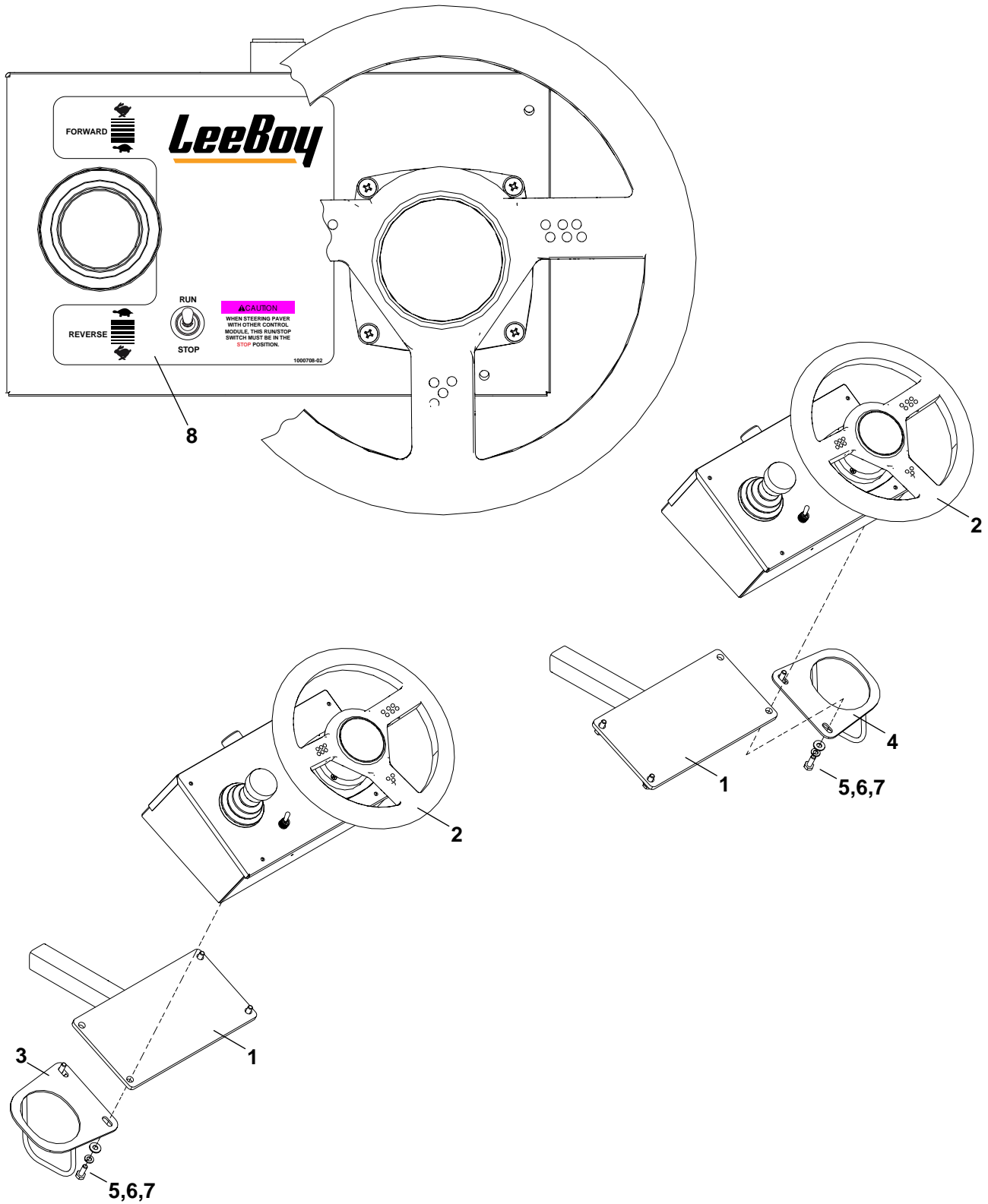


Figure 7-69. Option - Dual Steering Wheels

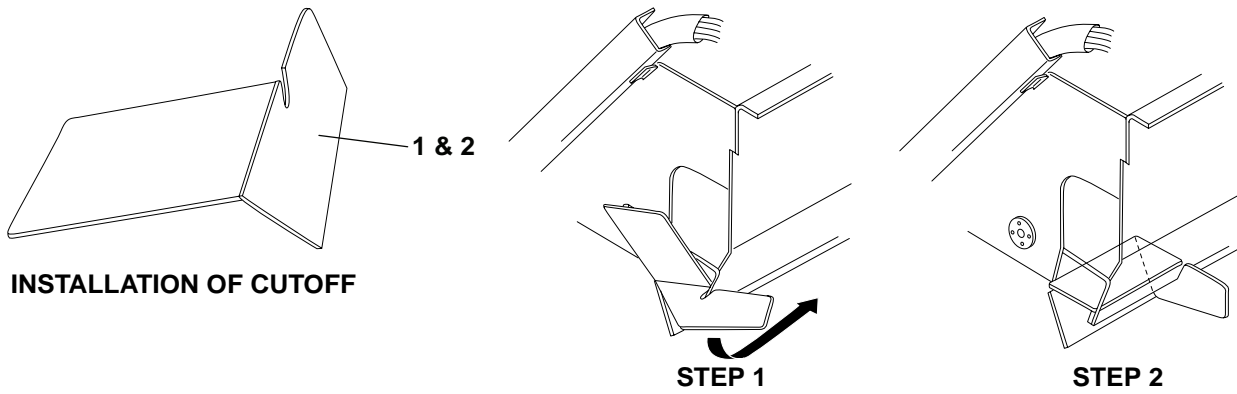
Option - Dual Steering Wheel

Item No	Part Number	Qty	Description	Remarks
GRP	1019214		Group - Dual Steering Wheel Option	
1	1014836	2	Steering Wheel Mount	
2	1015406	2	Steering Wheel Box for Plus One	
3	1002546SRV	1	Cup Holder - Left	
4	1002547SRV	1	Cup Holder - Right	
5	100-4-20-12-5F	8	CSHH, 1/4-20 x .75, GR5, FT	
6	302-4	8	Washer, Lock, 1/4	
7	300-4	8	Washer, Flat, SAE, 1/4	
8	1000708-02	2	Decal - Operation Steering Wheel	

Illustrated Parts List

OPTION - CURB ATTACHMENTS

STRIKE OFF PLATE OPTIONS



ROLL-UP CURB ATTACHMENT - 24"

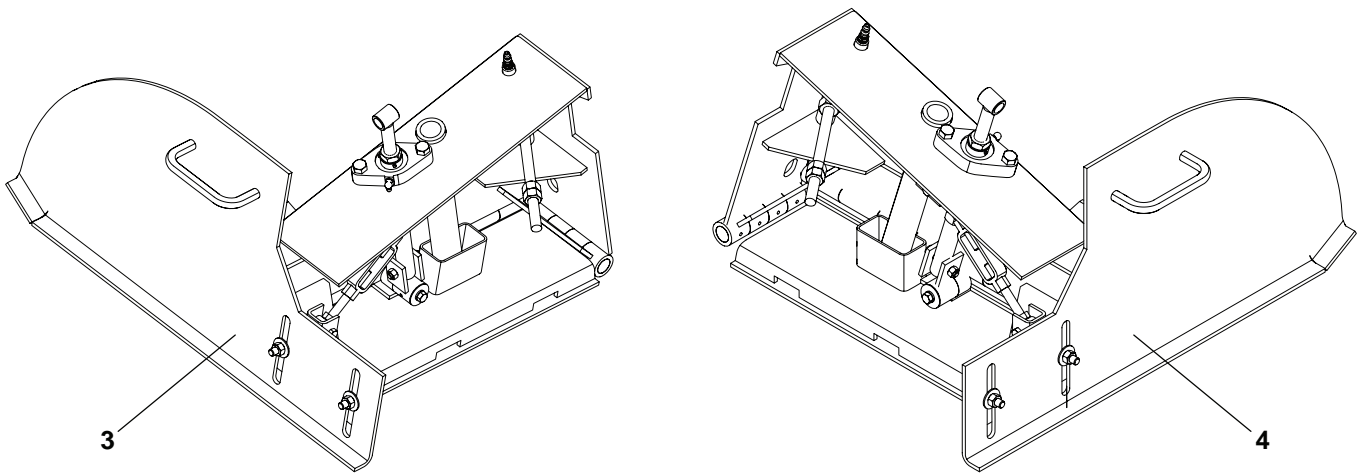


Figure 7-70. Option - Curb Attachments

Option - Curb Attachments

Item No	Part Number	Qty	Description	Remarks
1	860091LSRV	A/R	Strike Off, 12" (Left)	
2	860091RSRV	A/R	Strike Off, 12" (Right)	
REF	860093LSRV	A/R	Strike Off, 18" (Left)	Not Shown
REF	860093RSRV	A/R	Strike Off, 18" (Right)	Not Shown
REF	860095LSRV	A/R	Strike Off, 24" (Left)	Not Shown
REF	860095RSRV	A/R	Strike Off, 24" (Right)	Not Shown
3	851636LSRV	A/R	Roll Up Curb Attachment, 24" (Left)	Standard
4	851636RSRV	A/R	Roll Up Curb Attachment, 24" (Right)	Standard
REF	851635LSRV	A/R	Roll Up Curb Attachment, 12" (Left)	Not Shown
REF	851635RSRV	A/R	Roll Up Curb Attachment, 12" (Right)	Not Shown

Illustrated Parts List

OPTION - 20' PAVER LEVELING SKI ASSEMBLY

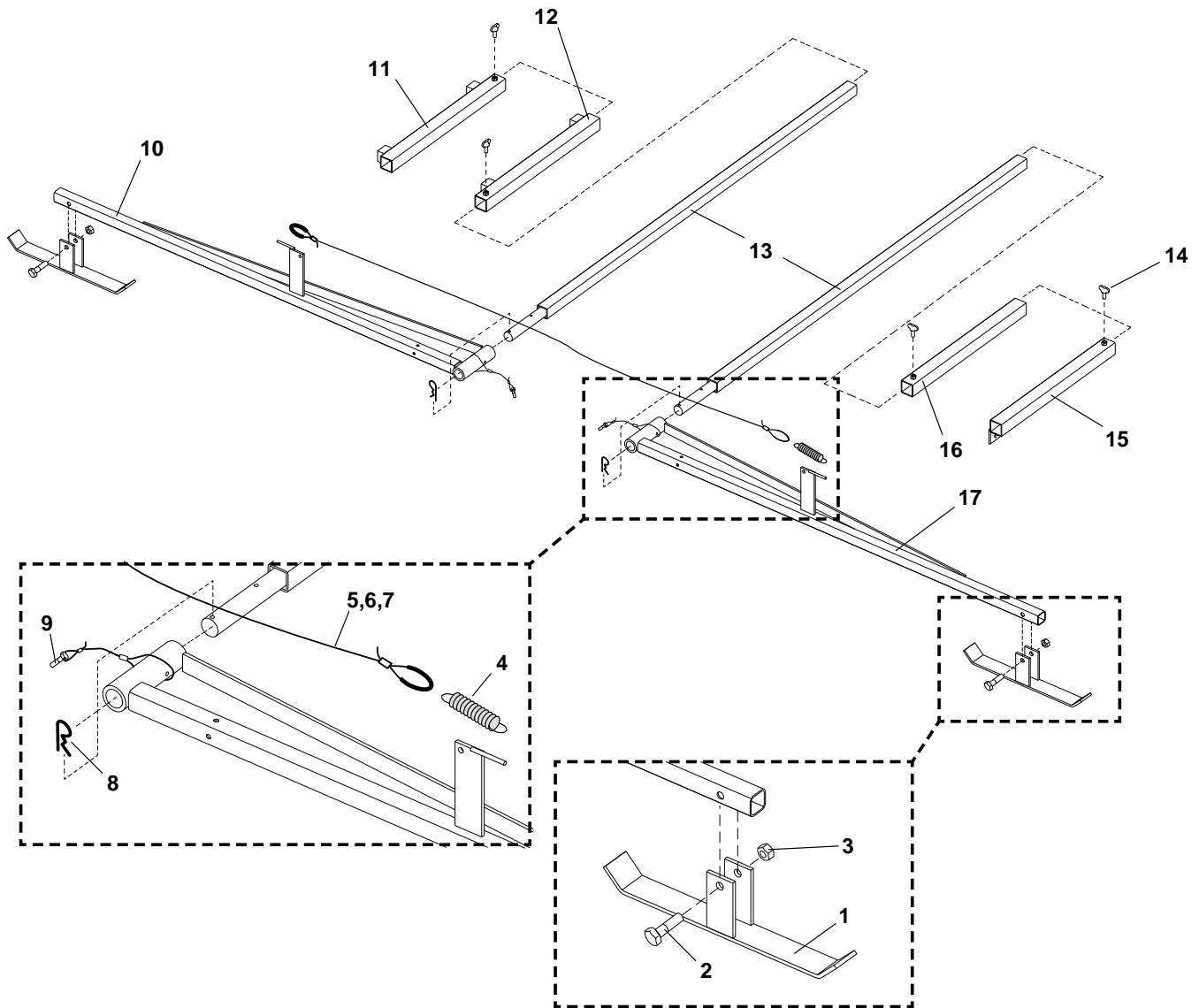


Figure 7-71. Option - 20' Paver Leveling Ski Assembly

Option - 20' Paver Leveling Ski Assembly

Item No	Part Number	Qty	Description	Remarks
GRP	851584SRV	GRP	Assembly, 20 Feet Ski	Complete Assembly
1	851249	2	Skid	
2	100-6-16-40-5	2	Cap Screw, Hex Head, 3/8-16 x 2.50	
3	204-6-16-5	3	Nut, Lock, Stover, 3/8-16	
4	851245	1	Spring, Extension	
5	851246	15	Cable, .063	
6	981981	6	Aluminum Cable Sleeve, 1/16"	
7	1013865	2	Thimble, Cable, .063	
8	870307	2	Hair Pin Clip, Clevis Pin	
9	1013870	2	Pin, Position Lock	
10	985190	1	Ski, 20', Front	
11	851243LSRV	1	Weldment, Front Slide Bar Housing	Left Side
12	851243RSRV	1	Weldment, Front Slide Bar Housing	Right Side
13	851242SRV	2	Bar, Adjustable Slide	
14	920070	4	Thumb Screw, 3/8-16 x 1.00	
15	851241RSRV	1	Weldment, Rear Slide Bar Housing	Right Side
16	851241LSRV	1	Weldment, Rear Slide Bar Housing	Left Side
17	985191	1	Ski, 20', Rear	

Illustrated Parts List

OPTION - 30'-40' PAVER LEVELING SKI ASSEMBLY

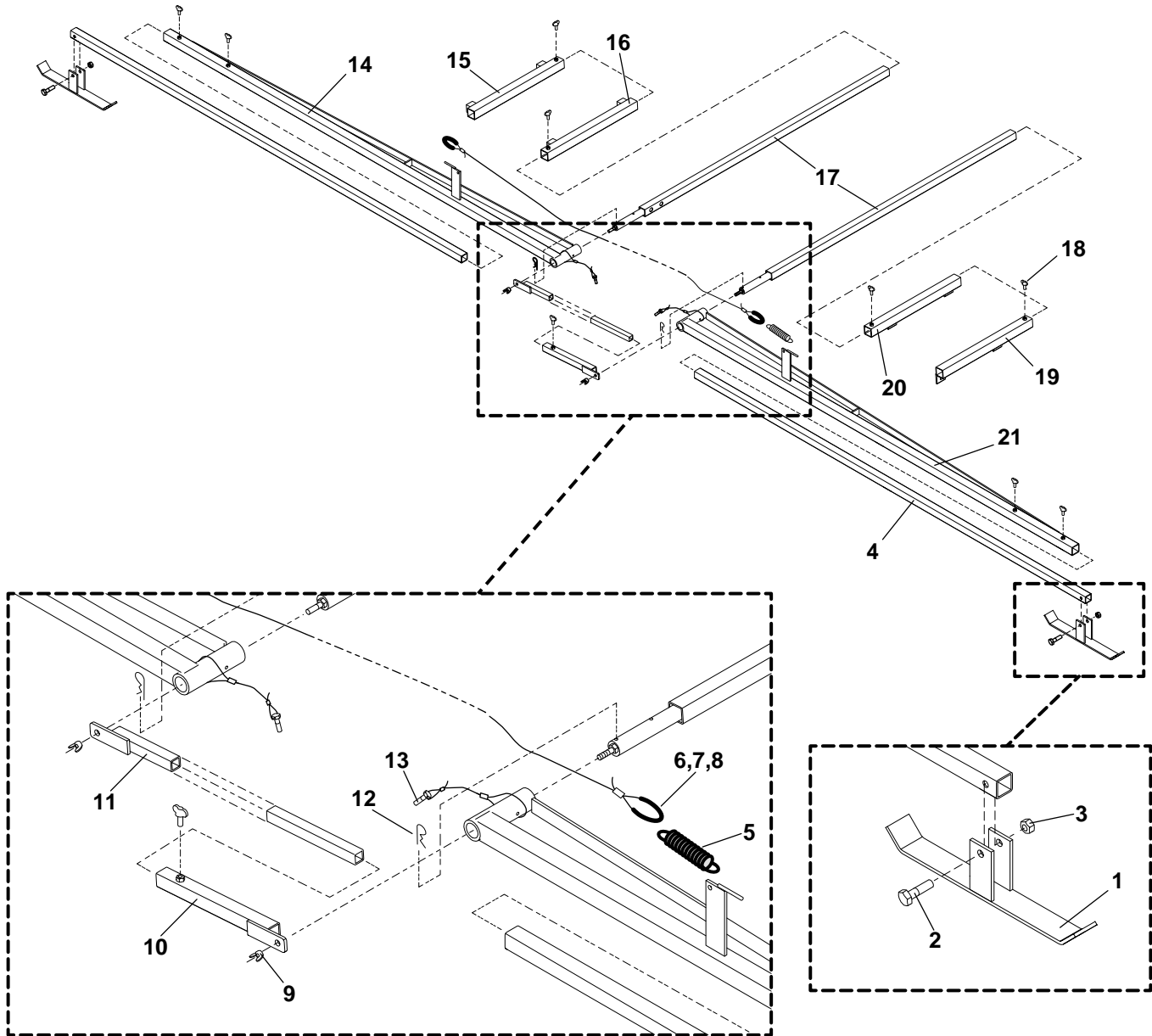


Figure 7-72. Option - 30' -40'Paver Leveling Ski Assembly

Option - 30'-40' Paver Leveling Ski Assembly

Item No	Part Number	Qty	Description	Remarks
GRP	851585SRV	GRP	30 - 40 Feet Ski Assembly	Complete Assembly
1	851249	2	Weldment, Skid	
2	100-6-16-40-5	2	CSHH, 3/8-16 x 2.50, GR5	
3	204-6-16-5	3	Nut, Lock, Stover, 3/8-16	
4	982005	2	Tube, Ski Foot Mount	
5	851245	1	Spring, Extension	
6	851246	24	Cable, .063	
7	981981	6	Aluminum Cable Sleeve, 1/16"	
8	1013865	2	Thimble, Cable, .063	
9	212-6-16	2	Wing Nut, 3/8-16	
10	1002311	1	Weldment, Rear Brace, 40' Ski	
11	1002302	1	Weldment, Front Brace, 40' Ski	
12	870307	2	Hair Pin Clip, Clevis Pin	
13	1013870	2	Pin, Position Lock	
14	1002300	1	Weldment, Ski Support Front Arm, 40'	
15	851243LSRV	1	Weldment, Front Slide Bar Housing (Left)	Left Side
16	851243RSRV	1	Weldment, Front Slide Bar Housing (Right)	Right Side
17	1002305	2	Weldment, Adjustable Slide Bar	
18	920070	9	Thumb Screw, 3/8-16 x 1.00	
19	851241RSRV	1	Weldment, Rear Slide Bar Housing (Right)	Right Side
20	851241LSRV	1	Weldment, Rear Slide Bar Housing (Left)	Left Side
21	1002301	1	Weldment, Ski Support Rear Arm, 40'	

Illustrated Parts List

OPTION - TOPCON P-32 CONTROL ASSEMBLY (1 OF 2)

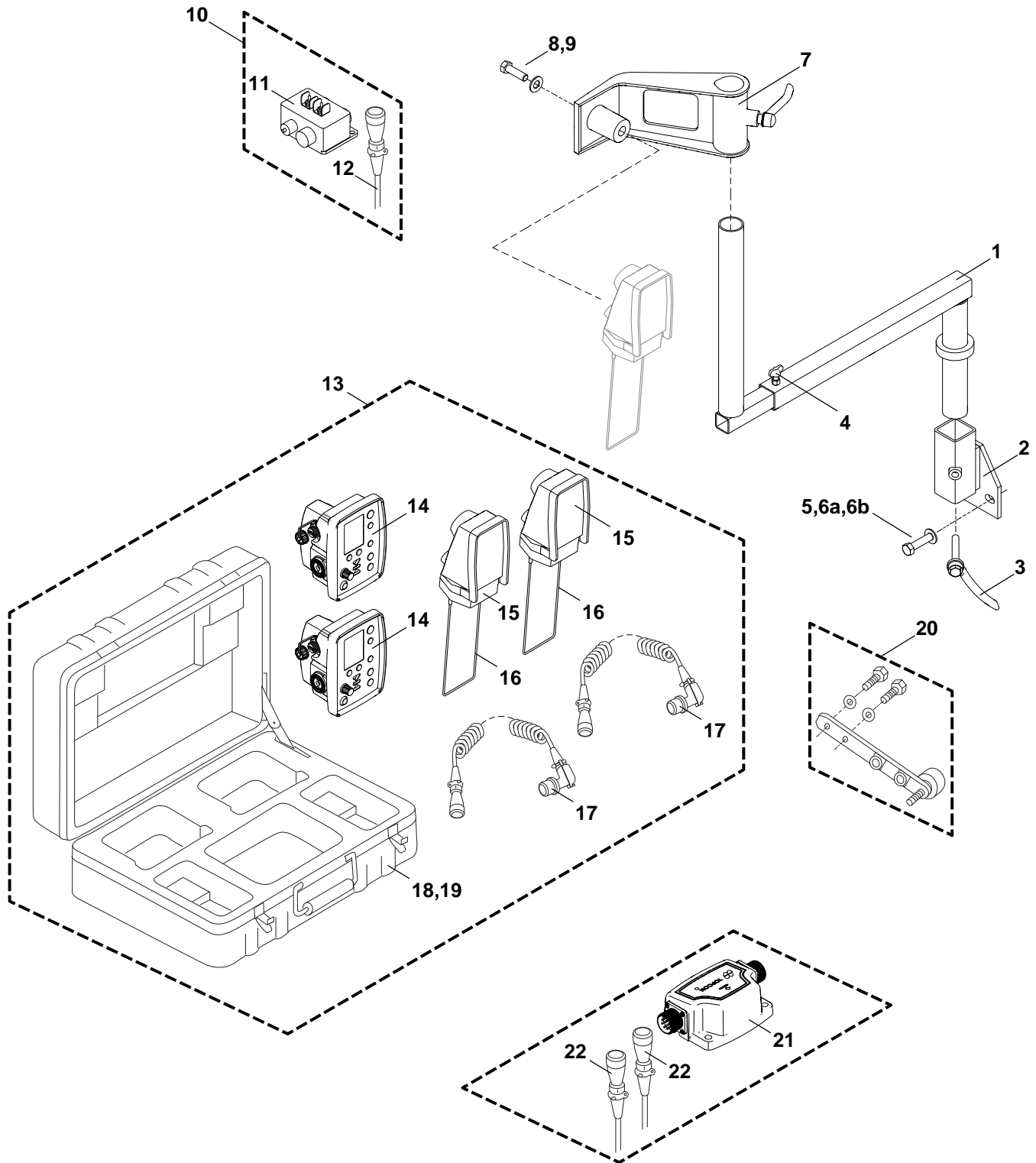


Figure 7-73. Option - TopCon P-32 Control Assembly (1 of 2)

Option - TopCon P-32 Control Assembly (1 of 2)

Item No	Part Number	Qty	Description	Remarks
GRP	1014912SRV		Option - TopCon P-32, Dual Grade	
1	9090-1125SRV	2	TopCon Z-Arm Bracket	
2	851575SRV	2	TopCon/Spectra Pivot Mount	
3	300060	2	Handle Nut, 5/8-11	
4	920070	4	Thumb Screw, 3/8-16 x 1.00	
5	100-10-11-20-5F	4	CSHH, 5/8-11 x 1.25, GR5, FT	
6	300-10	4	Washer, Flat, SAE, 5/8	
7	1010499-02	2	Sonic Tracker Bracket Assembly w/L-Bolt	
8	100-12-10-64-8	2	CSHH, 3/4-10 x 4.00, GR8	
9	300-12	2	Washer, Flat, SAE, 3/4	
10	985866	2	AM Module & Cable Assembly	Includes Items 11, 12
11	985866-01	2	AM Module Only	
12	985866-02	2	AM Module Cable Only	
13	1010499	1	TopCon P-32 Kit	Includes Items 14-19
14	1010499-08	2	GC-35 Controller Assembly	
15	1010499-06	2	Sonic Tracker II Assembly	
16	1010499-07	2	Temp Bail w/Sleeves Assembly	
17	1010499-04	2	GC-35/Sonic Tracker Cord Assembly (15 ft.)	
18	1010499-03	1	Carrying Case	
19	1010499-01	1	GC-35 Quick Reference Guide	Not Shown
20	1010499-05	2	GC-35 Paver Bracket Assembly	
REF	100-10-11-32-5F	2	CSHH, 5/8-11 x 2.00, GR5, FT	Not Shown
REF	983416-01	2	Junction Box to Control Box Cable	Not Shown
REF	984596	2	Cable Remote Assembly	Not Shown
GRP	1014913SRV		Option - TopCon P-32 Dual Grade/Slope	Also Includes 1014912SRV
21	1010499-09	1	P-32 Slope Module	
22	1010499-10	2	Slope Module Cable (8 ft.)	
GRP	1016470		Option - TopCon P-32 Dual Grade (One Side)	
1	9090-1125SRV	1	TopCon Z-Arm Bracket	
2	851575SRV	2	TopCon/Spectra Pivot Mount	
3	300060	1	Handle Nut, 5/8-11	
4	920070	1	Thumb Screw, 3/8-16 x 1.00	
5	100-10-11-20-5F	4	CSHH, 5/8-11 x 1.25, GR5, FT	
6	300-10	4	Washer, Flat, SAE, 5/8	
7	1010499-02	1	Sonic Tracker Bracket Assembly w/L-Bolt	
8	100-12-10-64-8	1	CSHH, 3/4-10 x 4.00, GR8	

Illustrated Parts List

OPTION - TOPCON P-32 CONTROL ASSEMBLY (2 OF 2)

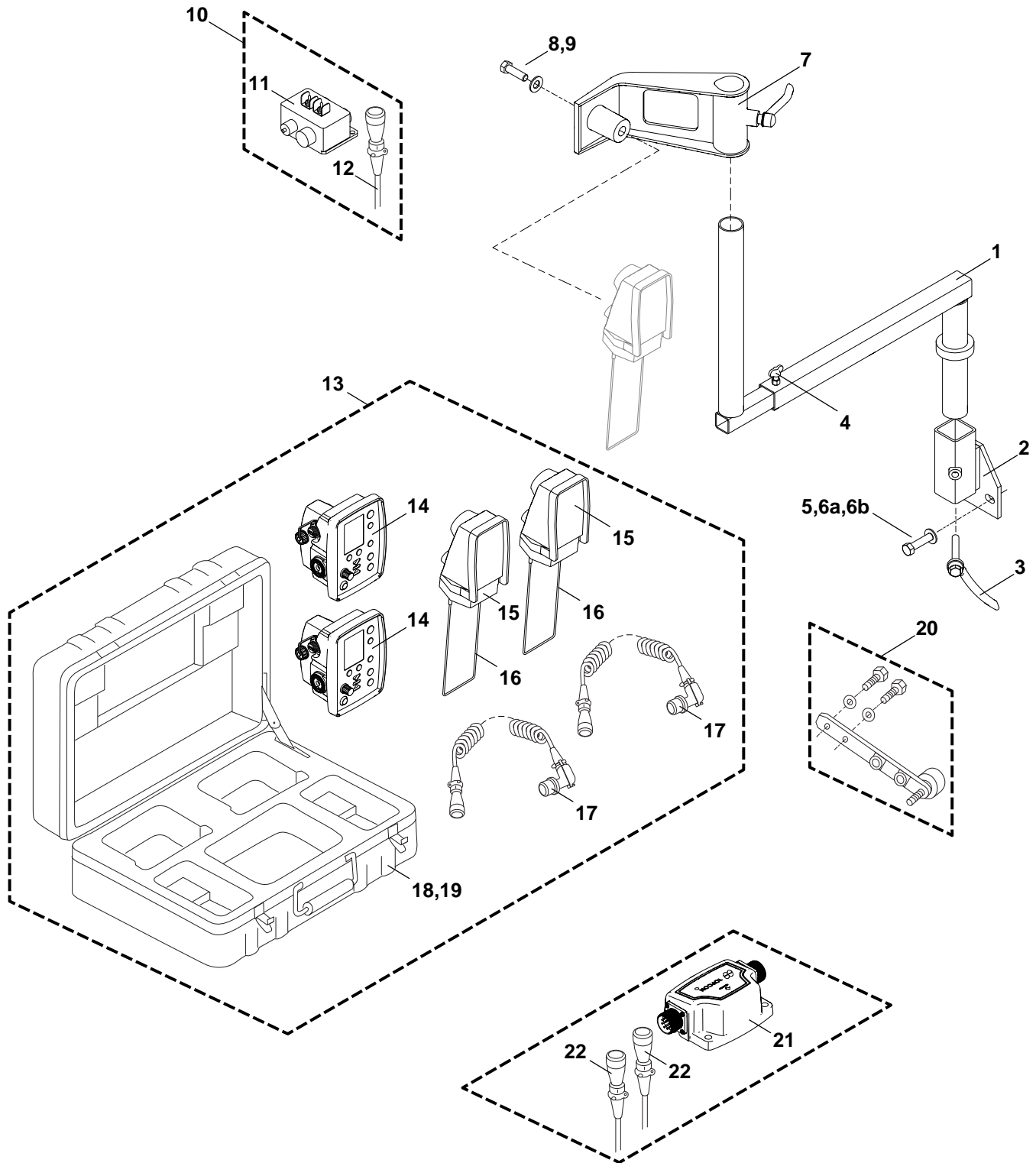


Figure 7-73. Option - TopCon P-32 Control Assembly (2 of 2)

Option - TopCon P-32 Control Assembly (2 of 2)

Item No	Part Number	Qty	Description	Remarks
9	300-12	1	Washer, Flat, SAE, 3/4	
10	985866	1	AM Module & Cable Assembly	Includes Items 11, 12
15	1010499-06	1	Sonic Tracker II Assembly	
16	1010499-07	1	Temp Bail w/Sleeves Assembly	
17	1010499-04	1	GC-35/Sonic Tracker Cord Assembly (15 ft.)	
18	1010499-03	1	Carrying Case	
19	1010499-01	1	GC-35 Quick Reference Guide	Not Shown
20	1010499-05	2	GC-35 Paver Bracket Assembly	
REF	1010499-02	1	Sonic Tracker Bracket Assembly w/L-Bolt	
REF	987338SRV	1	Option - Wiring, TopCon Grade Control	Not Shown

Illustrated Parts List

OPTION - TRUCK HITCH ASSEMBLY

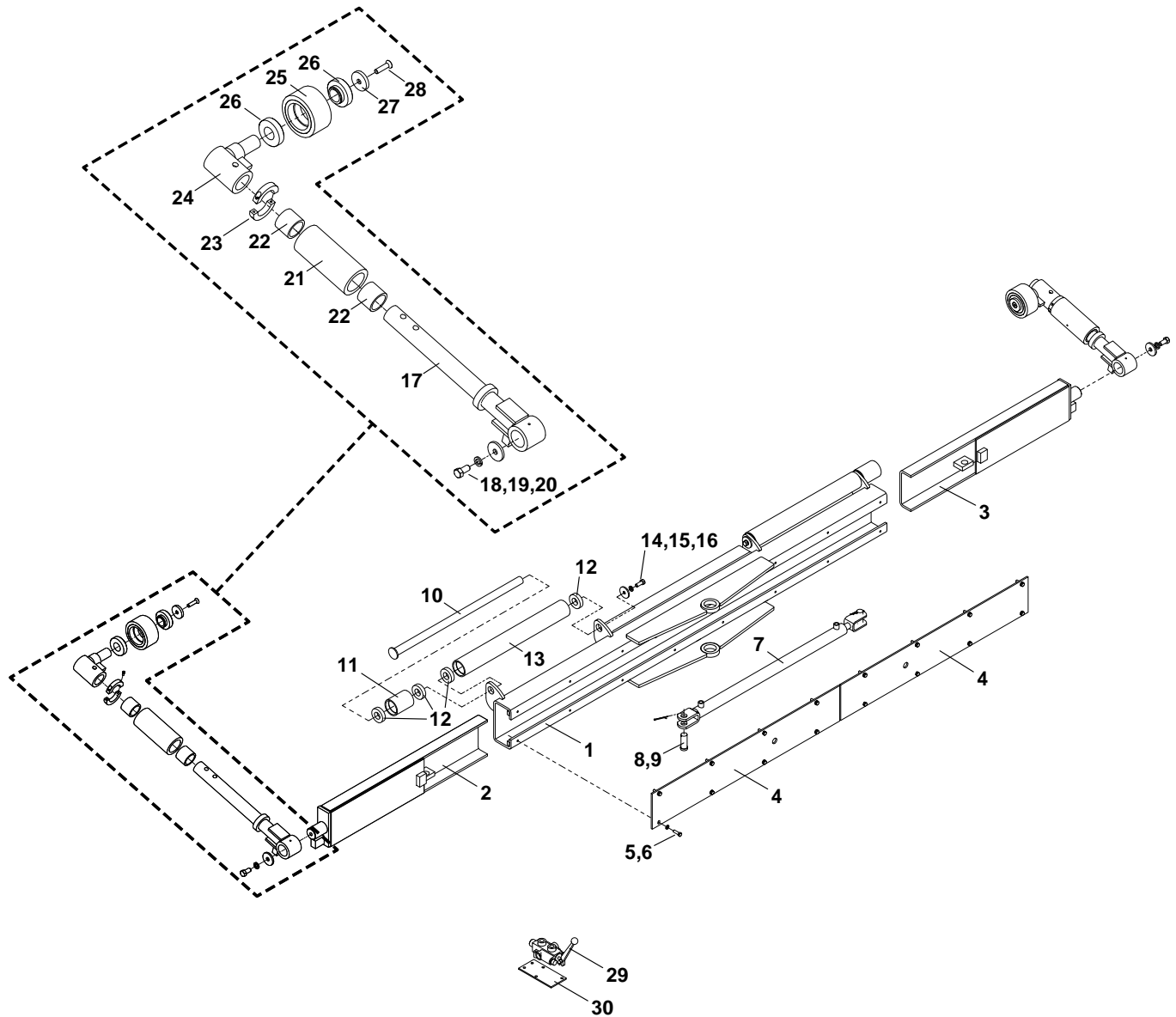


Figure 7-74. Option - Truck Hitch Assembly

Option - Truck Hitch Assembly

Item No	Part Number	Qty	Description	Remarks
OPT	1017214	1	Option - Truck Hitch	
REF	1008796	1	Truck Hitch Assembly w/Counter-Weight	Includes Items 1 - 29
1	930015	1	Pivot Bar Support Weldment	
2	930025SRV	1	Truck Hitch Extension Arm - Left	
3	930020SRV	1	Truck Hitch Extension Arm - Right	
4	930065SRV	2	Truck Hitch Cover	
5	100-6-16-20-5	16	CSHH, 3/8-16 x 1.25, GR5	
6	302-6	16	Washer, Lock, 3/8	
7	930070	1	Hydraulic Cylinder, 1.50 x 30.00 x 1.00 Rod	
8	1000285	2	Clevis Pin, 1.00 x 2.50	
9	80338	2	Cotter Pin, .188 x 2.00	
10	930075	2	Truck Hitch Roller Assembly Shaft	
REF	930060	2	Tuck Hitch Roller Assembly	Includes Items 11, 12
11	856854	2	Round Tube	
12	810110	8	Push Roller Bearing, 1.250	
13	810102	2	Push Bar Roller Assembly w/Bearings	Includes Item 12
14	100-8-13-20-5F	2	CSHH, 1/2-13 x 1.25, GR5, FT	
15	302-8	2	Washer, Lock, 1/2	
16	855735	2	Flat Washer, .500 x 2.00 x .188	
17	930030SRV	2	Truck Hitch Wheel Weldment	
18	100-10-11-20-5F	2	CSHH, 5/8-11 x 1.25, GR5, FT	
19	302-10	2	Washer, Lock, 5/8	
20	856046	2	Flat Washer	
REF	930040	2	Round Tube Assembly	Includes Items 21, 22
21	856855	2	Round Tube	
22	810070	4	Bushing, 2.00	
23	620400	2	Locking Collar, 2.00	
24	930045SRV	2	Guide Wheel Axle Assembly	
25	930055	2	Guide Wheel Assembly	
26	930050	4	Radial Ball Bearing, 1.50	
27	851112	2	Washer	
28	104-406-1A	2	CSFH, 1/2-13 x 1.25, FT	
OPT	1016460	1	Option - Truck Hitch Valving	
29	852250	1	Valve, Truck Lift	
30	1009084	1	Plate, Truck Hitch Valve Mount	
REF	1015857	1	Hose Kit, Truck Hitch	Not Shown

Illustrated Parts List

OPTION - UMBRELLA AND FIRE EXTINGUISHERS

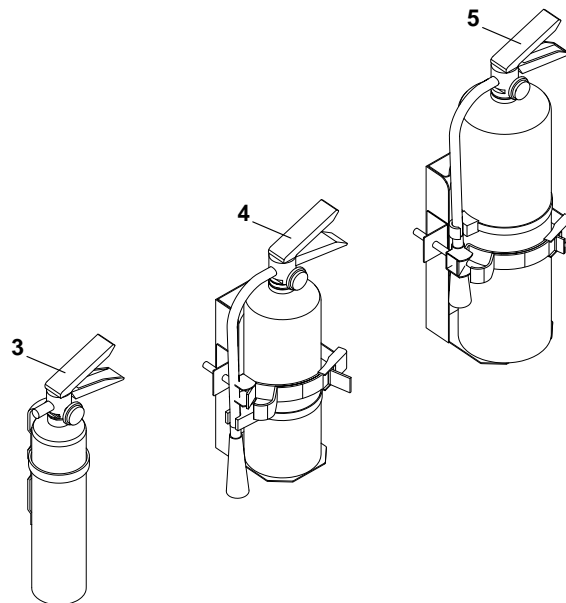
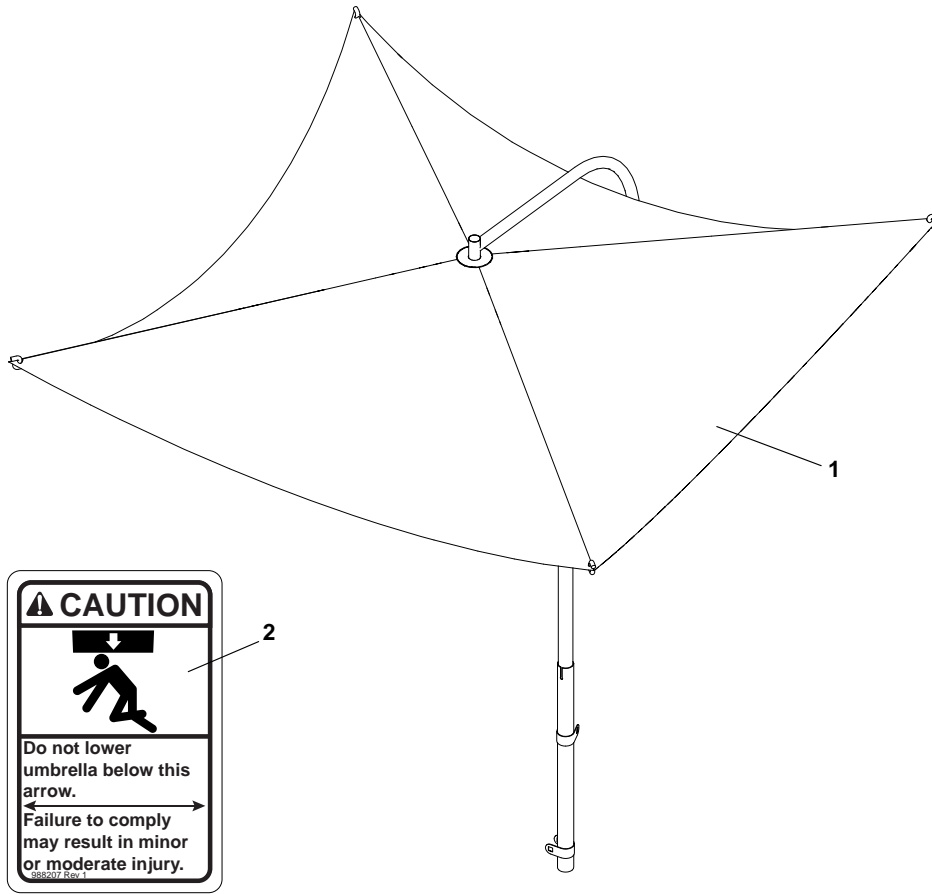


Figure 7-75. Option - Umbrella and Fire Extinguishers

Option - Umbrella and Fire Exqtinguishers

Item No	Part Number	Qty	Description	Remarks
OPT	988347SRV	1	Option - Umbrella w/Safety Decal	
1	920235	1	Umbrella w/Mounting Brackets	
2	988207	1	Decal - Umbrella	
3	360050	1	Option - Fire Extinguisher w/Bracket, 2.50 Lbs.	
4	982030	1	Option - Fire Extinguisher w/Bracket, 5 Lbs.	
REF	35828	1	Fire Extinguisher, 5 Lbs., 3A:40B:C	
REF	12313-5DC	1	Mounting Bracket, 5 Lbs. Fire Extinguisher	
5	982031	1	Option - Fire Extinguisher w/Bracket, 10 Lbs.	
REF	1014536	1	Fire Entinguisher, 10 Lbs., 4A:80B:c	
REF	12034-5HD	1	Mounting Bracket, 10 Lbs. Fire Extinguisher	

Illustrated Parts List

HYDRAULIC HOSE SCHEDULE

Hose No.	Qty.	Part Number	Description
	1	1018948	Main Hose Kit
1A	1	K811HTJCJC161616-72-SG-155-69.5	HOSE ASSEMBLY, HYDRAULIC, SUCTION, -16FFSS/-16FFSS, 72"
2A	1	F387TCJCJ5080808-118-SG-084-115.75	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90M, 118"
2B	1	F387TCJCJ5080808-118-SG-084-115.75	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90M, 118"
5	1	F387TCJCJ9101010-91-SG-097-88.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -10FFSS/-10FFS90S, 91"
7	1	K811HTJCJ9161616-37-SG-155-33.75	HOSE ASSEMBLY, HYDRAULIC, SUCTION, -16FFSS/-16FFS90S, 37"
8	1	F387TCJCJ9101010-50-SG-097-47.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -10FFSS/-10FFS90S, 50"
10	1	F387TCJCJ9060606-110	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFS90S, 110"
11	1	F387TCJCJ1060606-103	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFS90L, 103"
12	1	F387TCJCJC060606-39.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 39.5"
13	1	F387TCJCJC060606-33	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 33"
15	1	F387TCJCJ7101010-60	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -10FFSS/-10FFS45, 60"
16A	1	F387TCJCJ9080808-40.5-AS-B-15-38.25	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90S, 40.5"
16B	1	F387TCJCJ9080808-39-AS-B-15-36.75	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90S, 39"
17A	1	F387TCJCJ1080808-52.5-AS-B-15-50.25	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90L, 52.5"
17B	1	F387TCJCJ1080808-52.5-AS-B-15-50.25	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90L, 52.5"
20	1	K811HTJCJC242424-136-AS-B-37-132.25	HOSE ASSEMBLY, HYDRAULIC, SUCTION, -24FFSS/-24FFSS, 136"
25	1	F387TCJCJ7060606-27	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFS45, 27"
28	1	F387TCJCJC060606-182	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 182"
29	1	F387TCJCJC040404-171	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4FFSS/-4FFSS, 171"
30	1	F487STJCJ5121212-169.5	HOSE ASSEMBLY, HYDRAULIC, 4000 PSI, -12FFSS/-12FFS90M, 169.5"
31	1	F487STJCJ5121212-168.5	HOSE ASSEMBLY, HYDRAULIC, 4000 PSI, -12FFSS/-12FFS90M, 168.5"
32	1	F487STJCJ5121212-174	HOSE ASSEMBLY, HYDRAULIC, 4000 PSI, -12FFSS/-12FFS90M, 174"
33	1	F487STJCJ5121212-177.5	HOSE ASSEMBLY, HYDRAULIC, 4000 PSI, -12FFSS/-12FFS90M, 177.5"
34	1	F387TCJCJ9101010-40-SG-097-37.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -10FFSS/-10FFS90S, 40"
35	1	F387TCJCJ9121212-32.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -12FFSS/-12FFS90S, 32.5"
36	1	F387TCJCJ5121212-85-SG-113-81.75	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -12FFSS/-12FFS90M, 85"
38	1	F387TCJCJ7121212-76-AS-B-19-72.75	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -12FFSS/-12FFS45, 76"
39	1	F387TCJCJ5080808-17.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90M, 17.5"
40	1	F387TCJCJ5080808-17.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90M, 17.5"
41	1	F387TCJCJ5040404-48.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4FFSS/-4FFS90M, 48.5"
42	1	F387TCJCJ7060606-68	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFS45, 68"
43	1	F387TCJCJC060606-109	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 109"
44	1	F387TCJCJC060606-109	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 109"
45	1	F387TCJCJC060606-68	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 68"
51	1	F387TCJCJC060606-164	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FFSS/-6FFSS, 164"
54	1	F387TCJCJ9080808-14.5	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FFSS/-8FFS90S, 14.5"
62	1	K811HTJCJ7161616-178	HOSE ASSEMBLY, HYDRAULIC, SUCTION, -16FFSS/-16FFS45, 178"
71	1	F387TCJCJ9121212-223.5-AS-B-19-220.25	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -12FFSS/-12FFS90S, 223.5"
74	1	F387TCJCJC040404-169	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4FFSS/-4FFSS, 169"

Illustrated Parts List

Hose No.	Qty.	Part Number	Description
	1	1016854	Drive Motor Hose Kit
30	1	F487ST0639121212-48	LH DRIVE FRONT PORT TO LH LOWER BULKHEAD
31	1	F487ST0639121212-47	LH DRIVE REAR PORT TO LH UPPER BULKHEAD
32	1	F487ST0639121212-27	RH DRIVE FRONT PORT TO RH LOWER BULKHEAD
33	1	F487ST0639121212-28.5	RH DRIVE REAR PORT TO RH TOP BULKHEAD
67	1	F387TC0639101010-52	LH CASE DRAIN TO BULKHEAD TEE
68	1	F387TC0606101010-30.5	RH CASE DRAIN TO BULKHEAD TEE
69	1	F387TC0606040404-38	RH BRAKE TO BULKHEAD TEE
70	1	F387TC0641040404-40.25	RH TWO SPEED TO TEE
72	1	F387TC0606040404-14.25	LH TWO SPEED TO TEE
73	1	F387TC0639040404-55	LH BRAKE TO BULKHEAD TEE

Hose No.	Qty.	Part Number	Description
	1	1016860	Track Tension Hose Kit
75		F387TC0639080808-42.5	TT MANIFOLD TO RH CYLINDER
76		F387TC0639080808-26	TT MANIFOLD TO LH CYLINDER

Hose No.	Qty.	Part Number	Description
	1	1018968	Electric Heat Hose Kit
4	1	F387TCJJCJ5101010-14	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -10FFSS/-10FFS90M, 14"
1B	1	K811HTJCJ9161616-70-SG-155-67.5	UPPER TANK TO GENERATOR PUMP (SUCTION)
55	1	F787TCJJCJ1080808-201	GEN MANIFOLD GEN PORT TO GEN MOTOR REAR
56	1	F387TCJJCJ9060606-21.5	GEN CASE DRAIN TO BOTTOM TANK
57	1	F387TCJJCJ5101010-25	GEN RETURN TO BULKHEAD TEE

Hose No.	Qty.	Part Number	Description
	1	1015125	816 Main Screed Hose Kit
84/85	2	F387TC0606060606-27-AS-B-13-24	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX, 27"
86/87	2	F387TC0606060606-80-AS-B-13-77	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX, 80"

Hose No.	Qty.	Part Number	Description
	1	1015859	Screed Hose Kit
80	1	F387TC0639060606-72	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX90S, 72"
81	1	F387TC0639060606-72	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX90S, 72"
82	1	F387TC0641060606-72	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX90L, 72"
83	1	F387TC0641060606-72	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6FJX/-6FJX90L, 72"

Hose No.	Qty.	Part Number	Description
	1	1015125	Screed Bern Grease Line Hose Kit
1	2	F387TC0101040404-20	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4MP/-4MP, 20"

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Illustrated Parts List

Hose No.	Qty.	Part Number	Description
	1	1018994	Low Deck 7 Section Valve Hose Kit
18	1	F387TCJCJ7101010-87	7 SECTION OUT PORT TO TOP ENGINE COOLER TEE
19	1	F387TCJCJ5101010-55	7 SECTION PRESSURE IN PORT TO LOWER MANIFOLD CM PORT
21	1	F387TCJCJC080808-45	7 SECTION RELIEF PORT TO TANK TEE
22	1	F387TCJCJC060606-234	7 SECTION REAR A PORT TO RH CUTOFF CYLINDER BASE END
23	1	F387TCJCJC060606-236	7 SECTION FRONT B PORT TO RH CUTOFF CYLINDER ROD END
24	1	F387TCJCJC060606-199	7 SECTION REAR A PORT TO CONVEYOR LIFT CYLINDER BASE END
26	1	F387TCJCJC060606-211	7 SECTION REAR A PORT TO LH CUTOFF CYLINDER BASE END
27	1	F387TCJCJC060606-213	7 SECTION FRONT B PORT TO LH CUTOFF CYLINDER ROD END
14A	1	F387TCJCJC060606-62.5	7 SECTION FRONT B PORT TO SIDEWING MANIFOLD A PORT
14B	1	F387TCJCJC060606-62.5	7 SECTION REAR A PORT TO SIDEWING MANIFOLD B PORT
46	1	F387TCJCJC060606-32.5	7 SECTION REAR A PORT TO LOWER MANIFOLD SR PORT
47	1	F387TCJCJC060606-32.5	7 SECTION FRONT B PORT TO LOWER MANIFOLD SL PORT
80	1	F387TCJCJ9060606-72	7 SECTION FRONT B PORT TO BOTTOM LEFT BULKHEAD
81	1	F387TCJCJ9060606-72	7 SECTION FRONT B PORT TO BOTTOM RIGHT BULKHEAD
82	1	F387TCJCJ1060606-72	7 SECTION REAR A PORT TO TOP LEFT BULKHEAD
83	1	F387TCJCJ1060606-72	7 SECTION REAR A PORT TO TOP RIGHT BULKHEAD

Hose No.	Qty.	Part Number	Description
	1	1019390	High Deck 7 Section Valve Hose Kit
18	1	F387TCJCJ7101010-100	7 SECTION OUT PORT TO TOP ENGINE COOLER TEE
19	1	F387TCJCJ5101010-60.25	7 SECTION PRESSURE IN PORT TO LOWER MANIFOLD CM PORT
21	1	F387TCJCJC080808-56	7 SECTION RELIEF PORT TO TANK TEE
22	1	F387TCJCJC060606-242	7 SECTION REAR A PORT TO RH CUTOFF CYLINDER BASE END
23	1	F387TCJCJC060606-251	7 SECTION FRONT B PORT TO RH CUTOFF CYLINDER ROD END
24	1	F387TCJCJC060606-217	7 SECTION REAR A PORT TO CONVEYOR LIFT CYLINDER BASE END
26	1	F387TCJCJC060606-222	7 SECTION REAR A PORT TO LH CUTOFF CYLINDER BASE END
27	1	F387TCJCJC060606-227	7 SECTION FRONT B PORT TO LH CUTOFF CYLINDER ROD END
14A	1	F387TCJCJC060606-73.75	7 SECTION FRONT B PORT TO SIDEWING MANIFOLD A PORT
14B	1	F387TCJCJC060606-72.5	7 SECTION REAR A PORT TO SIDEWING MANIFOLD B PORT
46	1	F387TCJCJC060606-50.5	7 SECTION REAR A PORT TO LOWER MANIFOLD SR PORT
47	1	F387TCJCJC060606-50.5	7 SECTION FRONT B PORT TO LOWER MANIFOLD SL PORT
80	1	F387TCJCJ9060606-87	7 SECTION FRONT B PORT TO BOTTOM LEFT BULKHEAD
81	1	F387TCJCJ9060606-87	7 SECTION FRONT B PORT TO BOTTOM RIGHT BULKHEAD
82	1	F387TCJCJ1060606-87	7 SECTION REAR A PORT TO TOP LEFT BULKHEAD
83	1	F387TCJCJ1060606-87	7 SECTION REAR A PORT TO TOP RIGHT BULKHEAD

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Hose No.	Qty.	Part Number	Description
	1	1015860	LP Hose Kit
90	1	7132TY04FJ-44-SG-060-41	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4MP/-4FJX, 44"
91	1	7132TY04FJ-23.5	HOSE ASSEMBLY, HYDRAULIC, LP GAS, -4FJX/-4FJX, 23.5"
92	1	7132TY04FJ-33	HOSE ASSEMBLY, HYDRAULIC, LP GAS, -4FJX/-4FJX, 33"
93	1	7132TY04FJ-52	HOSE ASSEMBLY, HYDRAULIC, LP GAS, -4FJX/-4FJX, 52"
Hose No.	Qty.	Part Number	Description
	1	1015857	Truck Hitch Hose Kit
101	1	F387TC0639080808-48	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FJX/-8FJX90S, 48"
100	1	F387TC0606080808-34	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -8FJX/-8FJX, 34"
103	1	F387TC0341060606-206	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6MJ/-6FJX90S, 206"
102	1	F387TC0339060606-206	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -6MJ/-6FJX90S, 206"
Hose No.	Qty.	Part Number	Description
	1	1018520	Truck Hitch Cylinder Side Hose Kit
1	1	F387TC0306040604-53.5-SG-060-51	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4MJ/-6FJX, 53.5"
2	1	F387TC0306040604-53.5-SG-060-51	HOSE ASSEMBLY, HYDRAULIC, 3000 PSI, -4MJ/-6FJX, 53.5"

Illustrated Parts List

DECAL SCHEDULE

Item	Qty.	Part Number	Description
GRP	1	1019329	DECAL GROUP - 8510E
	1	1018921	DECAL, KIT, DECO, 8510E
	2	856441	DECAL, CAUTION, GUIDE BAR
	1	1010089	DECAL, CJ-4 OIL ONLY
	1	1010090	DECAL, ULTRA LOW SULFUR FUEL ONLY
	2	1010091	DECAL, CERTIFIED EMISSION ENGINE INSTALLATION
	1	1016094	DECAL, INSTRUCTIONAL, MARCO SPRAYDOWN PUMP
	1	1019223	DECAL, MANUAL CONTROLS, LH, 8510E
	1	1019224	DECAL, MANUAL CONTROLS, RH, 8510E
	1	1007678	DECAL, KIT, 8515B DEC/SAF/OPS

Item	Qty.	Part Number	Description
KIT	1	1018921	8510E DECAL KIT - DECO
	1	1018922	DECAL, DECO, 8510E, RIGHT WING
	1	1018923	DECAL, DECO, 8510E, LEFT WING

Item	Qty.	Part Number	Description
KIT	1	1007678	DECAL KIT - SAFETY & OPERATIONS
	2	856443	DECAL, LEEBOY ADDRESS
	2	978800	DECAL, REFLECTIVE TAPE, 2" X 12"
	2	983607-14	DECAL, LEEBOY 9.75 X 4
	2	856441	DECAL, GUIDE BAR CAUTION
	4	940002	DECAL, FLAG, AMERICAN
	1	856454	DECAL, TOOLBOX, MAINT
	2	856472	DECAL, THICKER/THINNER
	1	856608	DECAL, RADIATOR
	1	856446	DECAL, CAUTION, HYDRAULIC FUEL ONLY
	1	856444	DECAL, EXPLOSION/FIRE HAZARD
	1	988634	DECAL, MANUAL BOXES
	1	856517	DECAL, BATTERY DISCONNECT
	1	856447	DECAL, BATTERY
	2	856442	DECAL, ENTANGLE HAZARD
	2	856456	DECAL, CHECK OIL EVERY 30 DAYS
	1	859781-03	DECAL, ENGINE OIL DRAIN
	2	1005474	DECAL, NO UNATTENDED
	2	1003164	DECAL, 8515B
	1	982176	DECAL, 8515, FUSE DIAGRAM
	1	859778	DECAL, UPPER & LOWER MANIFOLD

Illustrated Parts List

Item	Qty.	Part Number	Description
	2	73283-1	DECAL, WARNING, ENTANGLEMENT HAZARD
	1	856439	DECAL, OPER, CHECK LIST, FUSEBOX
	2	856437	DECAL, DANGER, PINCH POINT
	1	856455	DECAL, HOOD PROP
	1	856445	DECAL, WARNING OPERATOR
	1	986124-04	DECAL, PAVING PROFESSIONAL, RIGH
	1	986124-03	DECAL, DECO, WHITE RIGHT STRIPE ?EDWTPPIM?
	1	94004-21	PLATE, SERIAL NUMBER
	2	38077	REFLECTIVE TAPE, 1.50, RED/WHITE REFLECTIVE TAPE 1.5 RED/WHI
	2	859777	DECAL, EXT WIDTH
	1	859795	DECAL, CHECK ENGINE OIL DAILY
	1	856473	DECAL, MUST PLUG FUSE IN DASH BEFORE CONVEYOR WILL OPERATE
	1	1013275	DECAL, NOTICE, HYDRAULIC DYE
	1	1017808	DECAL, FILL LEVEL, HYDRAULIC OIL
	2	859764	DECAL, CAUTION, TRANSPORT LOCK

Item	Qty.	Part Number	Description
KIT	1	1007677	DECAL KIT - HD SCREED
	2	859773	DECAL, ENTANGLEMENT HAZARD
	1	859799	DECAL, CAUTION, SONIC AUGERS, LH
	2	856476	DECAL, ENDGATE HEIGHT
	2	1007677-05	DECAL, HEAVY DUTY, SCREED
	2	1010489	DECAL, PINCH POINT, WEIGHT BLOCK, CYL
	2	1007677-01	DECAL, THICKER/THINNER, 816
	2	978800	DECAL, REFLECTIVE TAPE, 2"X12"
	2	1007677-04	DECAL, FLIGHT SCREW RULER
	2	859789	DECAL, CAUTION, STEP
	1	1007677-06	DECAL, CROWN VALLEY
	1	859792	DECAL, WASH DOWN
	1	856483	DECAL, CAUTION, CROWN & VALLEY
	2	859777	DECAL, EXT WIDTH
	2	1007677-02	DECAL, EXTENSION ADJUSTMENTS
	2	859781-04	DECAL, TOOL BOX
	1	859801	DECAL, CAUTION, SONIC AUGERS, RH
	2	856482	CAUTION, FLIGHT SCREW HANDLE
	1	856484	DECAL, CAUTION, CROWN & VALLEY ADJUSTMENT
	2	1006199	DECAL, KEEP RODS CLEAN

Illustrated Parts List

Item	Qty.	Part Number	Description
KIT	1	1007677	DECAL KIT - HD SCREED
	2	859773	DECAL,ENTANGLEMENT HAZARD
	1	859799	DECAL,CAUTION,SONIC AUGERS,LH
	2	856476	DECAL,ENDGATE HEIGHT
	2	1007677-05	DECAL,HEAVY DUTY, SCREED
	2	1010489	DECAL,PINCH POINT,WEIGHT BLOCK,CYL
	2	1007677-01	DECAL, THICKER/THINNER, 816
	2	978800	DECAL,REFLECTIVE TAPE,2"X12"
	2	1007677-04	DECAL,FLIGHT SCREW RULER
	2	859789	DECAL,CAUTION,STEP
	1	1007677-06	DECAL,CROWN VALLEY
	1	859792	DECAL,WASH DOWN
	1	856483	DECAL,CAUTION,CROWN & VALLEY
	2	859777	DECAL,EXT WIDTH
	2	1007677-02	DECAL,EXTENSION ADJUSTMENTS
	2	859781-04	DECAL,TOOL BOX
	1	859801	DECAL,CAUTION,SONIC AUGERS,RH
	2	856482	CAUTION, FLIGHT SCREW HANDLE
	1	856484	DECAL,CAUTION,CROWN & VALLEY ADJUSTMENT
	2	1006199	DECAL, KEEP RODS CLEAN
KIT	1		LEGEND SCREED DECALS
	1	1000420	DECAL, GENERATOR SETTINGS
	2	1006199	DECAL, KEEP RODS CLEAN
	2	985146	DECAL, DECO, LEGEND W/LIGHTNING BOLT

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