



OPERATIONS, SERVICE AND PARTS MANUAL



LEEBOY MODEL 8515C CONVEYOR PAVER

Manual No. 1003095-04

This manual applies
to serial number and
above: 101133

SAFETY**1****INFORMATION AND SPECIFICATIONS****2****COMPONENT LOCATION****3****OPERATION****4****MAINTENANCE****5****SCHEMATICS****6****ILLUSTRATED PARTS LIST****7**

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NOTES

INTRODUCTION

Thank you for purchasing the LeeBoy Model 8515C Conveyor Paver. We wish you many years of safe and efficient operation of your paver.

READ THIS MANUAL PRIOR TO OPERATING the paver. This manual is an important part of the paver and should be kept with the paver at all times in the dedicated storage container on the paver. Even though you may be familiar with similar equipment, you **MUST** read and understand this manual before operating this paver. Reading the manual will help you and others avoid injury and help prevent any damage to the paver. If this manual becomes lost or damaged, contact your authorized LeeBoy Dealer immediately to order a replacement (see “**Contact Information**” in Section 2).

This manual is intended as a guide for the safe and efficient use of the paver. This manual covers the procedures for proper operation and maintenance of the paver. This manual contains information that was available at the time of printing and are subject to change without notice.

This manual should be used with all related supplemental books, engine and transmission manuals, and parts books. Related Service Bulletins should be reviewed to provide information regarding some of the recent changes.

If any questions arise concerning this publication or others, contact your local LeeBoy Dealer for the latest available information.

This manual provides information for use by the equipment operator under the following headings:

Section 1: Safety—

Contains general and specific safety guidelines for product and safety label locations.

Section 2: Information—

Contains warranty, contact information, product identification nameplate, overview of product functions, specification tables, and product dimensions.

Section 3: Component Location—

Contains graphic and table overview combinations of major component locations and functions.

Section 4: Operation—

Contains all needed safe operation procedures and guidelines for product, including optional equipment.

Section 5: Maintenance—

Contains all needed information for safe maintenance procedures (i.e., changing filters, mechanical lubrication, adjustments, removal and installation, etc.) 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 exploded assemblies'/parts' illustrations and corresponding identification tables for all serviceable components including fasteners. Also contains alphabetical parts index.

NOTES



Section 1

SAFETY

Safety Precautions	1-3
Safety Label Locations	1-6

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 8515C Conveyor Paver and follow its instructions when operating the paver.

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

LOOK FOR THESE SYMBOLS WHICH POINT OUT ITEMS OF EXTREME IMPORTANCE TO THE SAFETY OF YOU AND YOUR COWORKERS. READ AND UNDERSTAND THOROUGHLY. HEED THE WARNING AND FOLLOW THE INSTRUCTIONS.

Keep safety labels in good condition. If safety labels become missing or damaged, replacement safety labels are available from your LeeBoy Dealer (see **Contact Information** in Section 2 and **Safety Label Locations** at the end of this Section).

 **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 LeeBoy Model 8515C Conveyor Paver to operate improperly.

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

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 LeeBoy Model 8515C Conveyor Paver 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 where the paver is operated. Make sure you have all necessary licenses to operate the paver.



The safety messages that follow have CAUTION level hazards.

Electrocution Hazard



Always inspect all wires and cables for damage before operating the machine. Damaged wires and cables could cause an electrical shock that could result in serious injury or death

If your machine comes in 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 this admonishment could result in electrocution or death.

Suffocation Hazard



Never operate the internal combustion engine on this machine in an enclosed area with poor ventilation. Failure to do so could result in carbon monoxide poisoning or death.



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 Model 8515C Conveyor Paver without written consent of LeeBoy. Any modification can affect the safe operation of the paver and may cause personal injury or death.

Exposure Hazard



Always wear personal protective equipment, including appropriate clothing, gloves, work shoes, and eye and hearing protection, 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 the 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



Have appropriate safety equipment available. 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 an electrical fire.

WARNING

The safety messages that follow have WARNING level hazards.

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 if the LeeBoy Model 8515C Conveyor Paver is operating in an enclosed area.
- Always ensure that all connections are tightened to specifications after repair is made to the exhaust system.

Entanglement/Sever Hazard



Verify there are no people, obstacles or other equipment near the LeeBoy Model 8515C Conveyor Paver 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, tie back long hair and keep hands, other body parts and clothing away from moving/rotating parts.

- Always stop the engine before beginning service.
- Verify that all paver guards and covers are attached properly to the paver 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 music or radio because it will be difficult to hear the warning signals.
- Always start the engine or operate the controls while you are seated in the operators seat.

Alcohol and Drug Hazard



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

Piercing Hazard



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 or fuel injection line. High-pressure hydraulic fluid or fuel can penetrate your skin and result in serious injury. 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 damage.



Flying Object Hazard

Always wear eye protection when cleaning the LeeBoy Model 8515C Conveyor Paver with compressed air or high-pressure water. Dust, flying debris, compressed air, pressurized water or steam may injure your eyes.

Coolant Hazard



Wear eye protection and rubber gloves when handling engine coolant. If contact with the eyes or skin should occur, flush eyes and wash immediately with clean water.

Burn Hazard

Some of the paver surfaces become very hot during operation and shortly after shutdown.



- Keep hands and other body parts away from hot paver surfaces.

- Handle hot components with heat-resistant gloves.



The safety messages that follow have CAUTION level hazards.

Poor Lighting Hazard

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 Model 8515C Conveyor Paver parts.

NOTICE

The safety messages that follow have NOTICE level hazards.

Any part which 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 LeeBoy Model 8515C Conveyor Paver damage 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.

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.

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.

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.



SAFETY LABEL LOCATIONS

If your LeeBoy Model 8515C Conveyor Paver has been repainted, it is extremely important that all the decals referring to CAUTION, WARNING, and DANGER be replaced in their proper locations. The illustrations on this page will aid you in determining the proper locations; for additional help, you should refer to the parts listing in the parts section of this manual and note the description column.

A description of location is provided below for each safety label. For additional instructions, contact your dealer (**see “Contact Information” on page 2-4**).

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

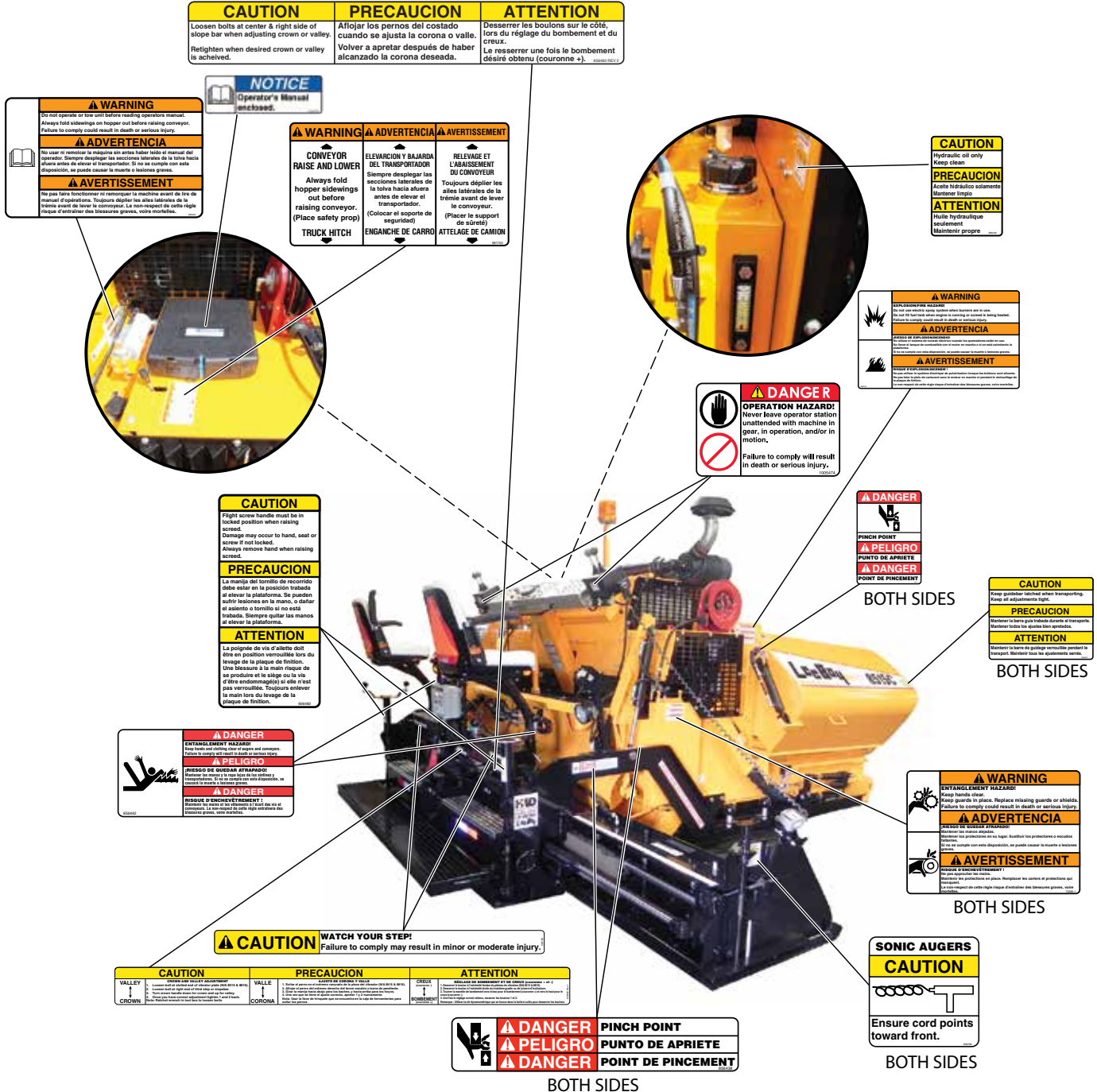


Figure 1-1. LeeBoy Model 8515C Conveyor Paver Safety Labels and Safety Label Locations

NOTES



Section 2

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LIMITED WARRANTY POLICY

Warranty

1. Subject to the limitations, exclusions, and claims procedures set forth herein, LeeBoy warrants [to the first retail purchaser] that this product will be free from [substantial] defects in materials and workmanship during the warranty period.
2. 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.
3. 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 paver to the first retail purchaser. (See Dealer for additional warranty).
4. 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.
5. 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.
6. LeeBoy has the right to repair any component or part before replacing it with a new one.
7. All new replacement parts purchased by a LeeBoy Dealer will carry a six-month warranty.
8. 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.

Limitations

LeeBoy has no obligation for:

1. Any defects caused by misuse, misapplication, negligence, accident or failure to maintain or use in accordance with the most current operating instructions.
2. Unauthorized alterations.
3. Defects or failures caused by any replacement parts or attachments not manufactured by or approved by LeeBoy.
4. Failure to conduct normal maintenance and operating service including, without limitation, providing lubricants, coolant, fuel, tune-ups, inspections or adjustments.
5. Unreasonable delay, as established by LeeBoy, in making the applicable units or parts available upon notification of a service notice ordered by same.
6. Warranty Responsibility: The warranty responsibility on all engines rests with the manufacturer of the engine.
7. 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.
8. This Limited Warranty sets forth your sole remedy in connection with the sale or use of the LeeBoy product covered by this Limited Warranty.
9. This Limited Warranty extends only to the first retail purchaser, and is not transferable.
10. 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.

Items Not Covered

LeeBoy is not responsible for the following:

1. All used units or used parts of any kind.
2. Repairs due to normal wear and tear or brought about by abuse or lack of maintenance of the Machine.
3. Attachments not manufactured or installed by LeeBoy.
4. Liability for incidental or consequential damages of any type including, but not limited to, lost profits or expenses of acquiring replacement equipment.
5. Miscellaneous charges.

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, first contact the dealer you purchased your product from.

If you have a persistent problem your dealer is unable to resolve, 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 fill out the following information and use it when you need to contact LeeBoy for service, parts or literature.

Paver Model Number: _____
Paver Serial Number: _____
Date of Purchase: _____

NAMEPLATE

The nameplate (**Figure 2-1**) contains the specific model number and serial number used to identify the components for any parts or service information.

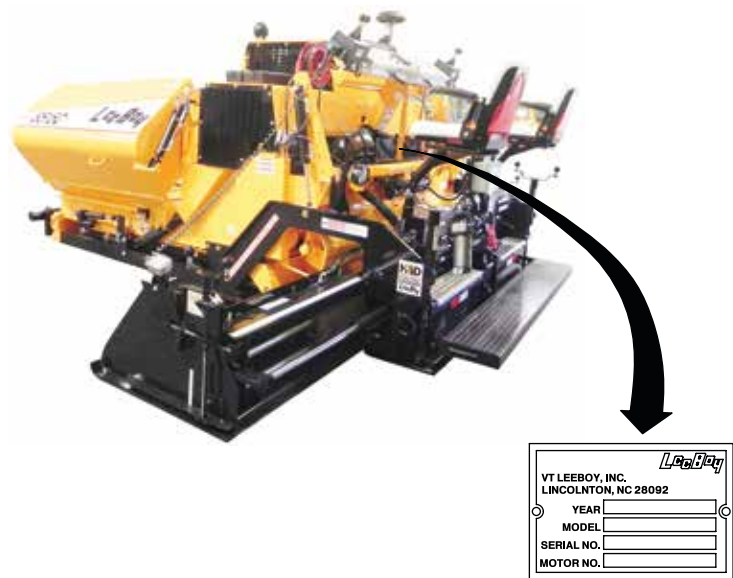


Figure 2-1. Nameplate Location

SCREED SERIAL NUMBER LOCATION

Serial numbers used to identify the components for any parts or service information are stamped on the

left screed arm upper edge (**Figure 2-2**). This serial number is the same as the conveyor paver model number shown on the conveyor paver nameplate.

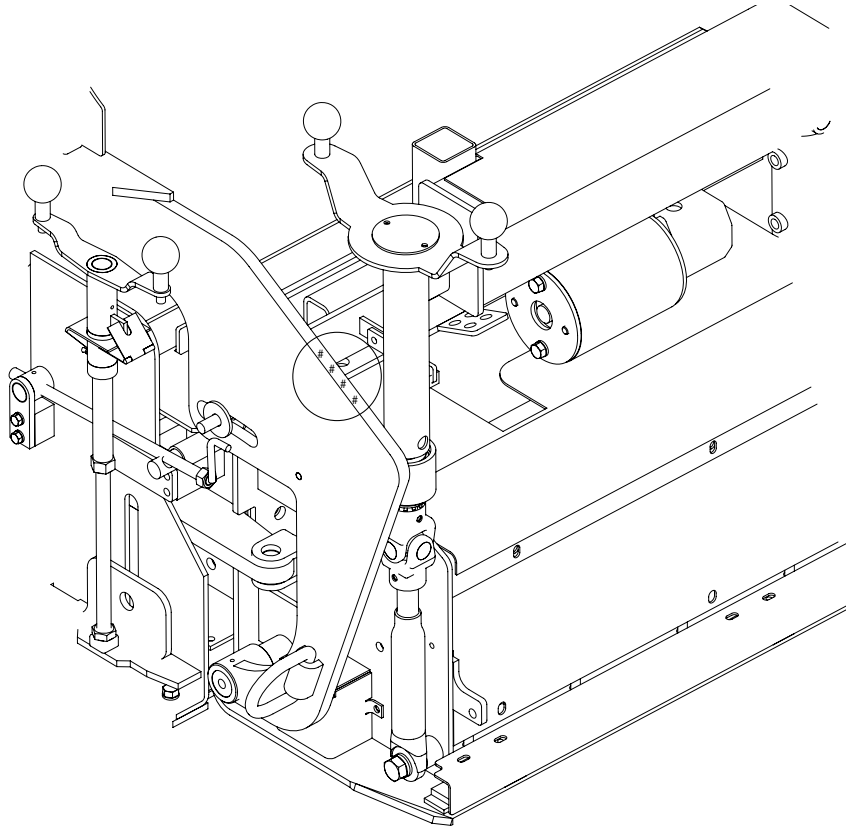


Figure 2-2. Screed Serial Number Location

GENERAL INFORMATION

The descriptions and specifications provided in this section are applicable to the LeeBoy Model 8515C Conveyor Paver.

This section contains a description of how the major components operate. It also includes specifications for the major system components. Included in this section are paver weights, dimensions, performance, and major system specifications for the paver.

MAJOR COMPONENTS

Engine

The LeeBoy Model 8515C Conveyor Paver uses either a Kubota, V3600-T-E3B 84.5 HP or CAT, C3.4 T NA 83 HP four-cylinder engine to drive the hydraulic function pumps and steering pumps. The engine is mounted near the center of the paver and is accessible through several access doors in the engine cover.

A fuel lift pump mounted on the engine draws diesel fuel from the fuel tank. The fuel tank is mounted at the rear of the engine compartment.

An air cleaner is mounted on the top of the right-hand pump cover. 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, a cyclone type action deposits some of the fine particles in the evacuator mounted on the bottom of the air cleaner housing. The evacuator is held closed during engine operation by suction. When the engine is shut off the weight of the debris helps to open the rubber flaps allowing the debris to fall out. The rubber flaps can also be squeezed to open for cleaning.

Primary and secondary fuel filters remove contaminants from the diesel fuel before the fuel flows to the injection pump for injection into the engine combustion chamber.

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

Refer to the engine owner's Operation and Maintenance Manual for a complete description of the engine.

Hydraulic System

The hydraulic system includes four hydraulic pumps driven by the engine: 1) Left Drive Pump, 2) Right Drive Pump, 3) Auger and Generator Pump, 4) Conveyor-cylinders and Charge Pump.

The auxiliary pumps are mounted on the rear of the drive pumps, to the right side of the engine, and driven by the drive pump output shaft. This double gear type pump provides hydraulic flow to operate all the hydraulic cylinders, auger, generator and charge pumps.

Each auxiliary pump has its own suction hose from tank. The conveyor pump will also charge the Left and Right Drive Pumps and cylinders.

Torque Hubs

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

Hopper

The hopper wings are hydraulically controlled to raise and lower. The hopper wings also hinge in and out to allow for more compact transportation. The hopper when fully open can hold a payload up to 7 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 and are controlled on and off with limit switches.

Augers

The auger rotates clockwise (CW) to assist in moving material from the conveyors to the screed. The auger can be manually controlled at the operator platform on the paver or by the screed operator on the screed.

The auger can also be controlled automatically when the sonic auger system is installed and active. The sonic auger sensor mounted on the screed end gates detect the amount of material present and control the auger to keep the material flow constant.

Operator Platform

The operator platform allows easy and convenient control of most all functions of the paver and screed. The paver can be operated from either the left-hand or right-hand side depending on which control panel side is active and best suited to the working conditions.

NOTE: All functions can be worked at anytime except for Left hand and/or Right hand steer.

Screed

The Screed is the last part of the paver that contacts the paved material. Operation of the screed is usually done by the screed operator. 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 wider paving base from 8 ft up to 15 ft.

Screed heating is accomplished by either LPG burners, or by electric heating elements mounted directly to the wear plates.

The hydraulically driven vibrators mounted on the main screed frame can be used to increase paving material compaction.

Electrical System

The electrical system is powered by a 12 Volt battery mounted in the engine compartment located under the covers in the center of the paver forward of the operator's platform.

The battery produces 12VDC and maintains 1125 cold cranking amperes (CCA). An engine-mounted alternator capable of at least 60 amperes charging capacity keeps the battery charged during normal operation. The battery charge rate can be monitored using the Voltmeter on the center operator dash panel.

Electrically heated pavers come equipped with a generator. The generator is mounted on the paver under the hopper floor near the right hand track.

The generator is hydraulically driven by the first section of the rear pump on the engine pump stack. When the paver is at full rpm, and the hydraulic system is at normal operating temperature, the generator should operate at a sufficient speed to produce between 220VAC and 240VAC.

All LeeBoy generators are equipped with an integrated generator speed control manifold. This manifold should not require adjustment, but if there is a need to fine tune the generator speed, there is an adjustment on the manifold (see Section 7).

NOTICE

Generator speed tuning should only be done by an authorized LeeBoy Dealer.

All output power from the generator is passed through the main breaker for safety. All output power is lost when this breaker is in the "tripped" or "off" position. The location of the generator main output breaker is shown in .

The paver has heating controls to provide the necessary connection and control of the output power from the generator to the heating elements. It is necessary to maintain all components of the heating controls system in good working order to maintain safe and efficient screed heating.

The Heating Control or Distribution/Control Box is mounted near the middle of the screed and is easily accessible to the screed operator when a heating cycle is required.

There is a five second delay after the heat cycle is initiated before the actual electric load is sent to the heating elements from the generator. This delay is to allow the generator to reach optimal operating speed before the electrical load is required.

Once the heat cycle is started, a pre-programmed timer controls the amount of time for output power from the generator to go through the element connection supply plugs coming out of the bottom of the Heating Control Box to the heating elements.

Any element lead can be plugged into any supply plug under the heating control/distribution box. All plugs are equally rated.

Each element is sized to fit properly in your screed, and provide sufficient power to heat your screed plate to a temperature that mix will not drag or stick to the lower surface of the screed plate.

To know that the element is correct, you should read a resistance between 28 ohms and 60 ohms (see Section 7).

OPTIONAL COMPONENTS

Screed Generator

The generator is the first major component in the LeeBoy Electric Screed System. The generator is mounted on the paver under the conveyor floor.

The generator is hydraulically driven by the first section of the rear pump on the engine pump stack. When the paver is full engine RPM, and the hydraulic system is at normal operating temperature, the generator should operate at a sufficient speed to produce between 220VAC and 240VAC.

The generator consists of various subcomponents, which are described in more detail in the following subsections:

Speed Control Manifold

All LeeBoy generators are equipped with an integrated generator speed control manifold. This manifold should not require adjustment, but if there is a need to fine tune the generator speed, there is an adjustment on the manifold.

NOTICE Generator speed tuning should only be done by an authorized LeeBoy Dealer.

Breaker

All output power from the generator is passed through the main breaker for safety. All output power is lost when this breaker is in the “tripped” or “off” position.

Screed Heating Controls

The LeeBoy Electric Screed System has heating controls to provide the necessary connection and control of the output power from the generator to the heating elements. It is necessary to maintain all components of the heating controls system in good working order to maintain safe and efficient screed heating. These controls are described in more detail in the following subsections:

Heating Control Box

The Heating Control or Distribution/Control Box is mounted near the middle of the screed and is easily accessible to the screed operator when a heating cycle is required.

Once the heat cycle is started, a pre-programmed timer controls the amount of time for output power from the generator to go through the element connection supply plugs coming out of the bottom of the Heating Control Box to the heating elements.

Element Connections

Any element lead can be plugged into any supply plug under the heating control/distribution box. All six plugs are equally rated.

Screed Heating Elements

The heating elements are each sized to fit properly in your screed and to provide sufficient power to heat your screed plate to a temperature that mix will not drag or stick to the lower surface of the screed plate.

To know that the element is correct, you should read a resistance between 28 ohms and 60 ohms. (See Section 5.)

SPECIFICATION CHARTS

The specifications provided in this section are applicable to the LeeBoy Model 8515C Conveyor Paver. Included in this section are specifications for paver

weights, dimensions, performance, and torque values for both metric and standard inch fasteners.

CAUTION Replace original equipment only with LeeBoy approved components.

Table 2-1. Dimension Specifications (See Figure 4-1)

ITEM	SPECIFICATION
Overall Length	13' 3" (4.04 m)
Overall Height	8' 2" (2.49 m)
Overall Width (hopper wings in)	8' 6" (2.59 m)
Overall Width (hopper wings out)	10' (3.05 m)
Paver Weight (with screed)	17,800 lbs (8.074 kg)
Basic Paving Width	8' (2.44 m)
Maximum Paving Width	15' (4.57 m)
Main Screed Wear Plate	15" (.38 m)
Extensions Width of Wear Plate	7" (17.8 cm)
Extensions Length	3'6" (1.07 m)
Walkway Width	12" (30.5 cm) w/ Extension

Table 2-2. Performance Specifications

ITEM	SPECIFICATION	
	Poly Track	Rubber Track (Option)
Travel Speed	0 to 250 FPM (76 MPM)	0 to 265 FPM (81 MPM)
Paving Speed	0 to 150 FPM (46 MPM)	0 to 160 FPM (49 MPM)

Table 2-3. Kubota Tier 4 Engine Specifications

ITEM	SPECIFICATION
Manufacturer and Model	Kubota, V3800-CR-TE4
Emission Regulation	Tier 4 / Stage III B
Type	Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders	4
Bore, Stroke, and Displacement	3.94" (100 mm) ; 4.72" (120 mm); 230 in ³ (3.796 L)
Combustion System	Direct Injection
Intake System	Turbocharged
Power Rating kW - HP	74.5 kW - 87.5 HP
Maximum Speed	2400 RPM
Fuel Filter Type	Kubota Diesel

Table 2-4. Machine System Capacity Specifications

ITEM	SPECIFICATION
Engine Lubrication Oil - Refill capacity	15.0 quarts (14.2 L)
Engine Lubrication Oil - Pan capacity	13.9 quarts (13.2 L)
Hydraulic Oil Reservoir	40 gal (151.40 L)
Torque Hubs	32 oz. (0.355 L) each
Fuel	20 gal (76 L)
Propane	One (1) 20 lb tank
Antifreeze	Glycol based, Red, Extended Life; 3.6 gal (13.8 L)

Table 2-5. Electrical Specifications

ITEM	SPECIFICATION
Battery	One, Maintenance Free
Battery Ampere Hour Rating	1125 CCA
Battery Voltage	12 Volts
Alternator Type and Voltage	12 Volt, negative ground
Alternator Output Amperage	60 Amps
Alternator Fan Belt Tension	Manual belt tension mechanism keeps serpentine belt under tension at all times
Starter Voltage and Type	12 Volt, negative ground

Table 2-6. Hydraulic Pressures Specifications

ITEM	SPECIFICATION
Drive	4500 PSI (310 Bar)
Conveyors	2500 to 2600 PSI (172 to 179 Bar)
Augers and Cylinders	2900 PSI (200 Bar)

Table 2-7. Lubricant Specifications

ITEM	SPECIFICATION
Engine Oil	15W-40, API CH-4, CI-4
Hydraulic Oil	All Weather 68
Torque Hub	50 WT Gear Oil
Grease	Shell Avania EP Grease or Equivalent
Chain Lube	Chain Lube

Table 2-8. Hopper Specifications

ITEM	SPECIFICATION
Size	7.5 tons (6,804 kg)
Height	23" (584 mm)
Wings	3/8" (10 mm)

Table 2-9. Screed Specifications

ITEM	SPECIFICATION	
	Screed	815HD Screed (Option)
Screed Weight	2,900 lbs (1,315 kg)	3,300 lbs. (1,497 kg)
Extensions	Two 44" hydraulically operated extensions	
Screed Plate Material	3/8" (9.5 mm) HARDOX 450	
Vibration	Two hydraulic vibrators producing 3400 vibrations per minute	
Crown/Valley	Adjustable, at least 2" of crown and 1-1/2" of valley	
Propane Heat	Two (2) 54,000 BTU propane burners on main screed One (1) 45,000 BTU propane burner on each extension	
Electric Heat (Option)	Two (2) 3412 BTU/hr electric heat elements on main screed One (1) 3412 BTU/hr electric heat element on each extension	

DIMENSIONS

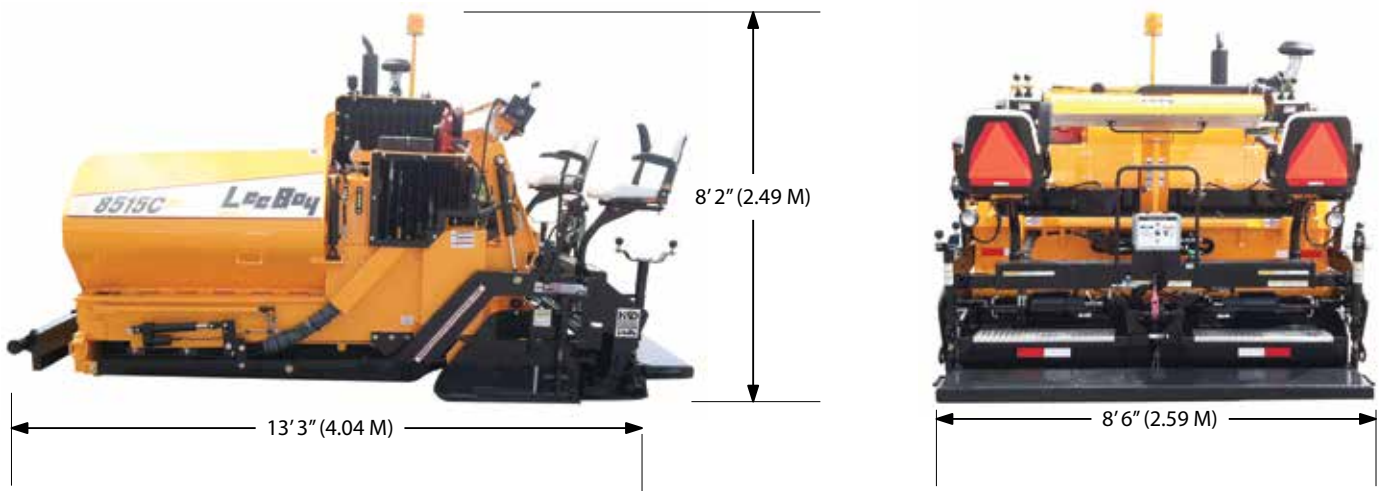


Figure 2-3. Paver Overall Dimensions

TORQUE SPECS

Inch Fasteners

WARNING The following Table lists torque values for standard hardware and are intended as a guide for average application involving typical stresses

and machined surfaces. Values are based on physical limitations of clean, plated and lubricated hardware. In all cases, when an individual torque value is specified, it should be followed instead of values given in this table.

CAUTION Replace original equipment with hardware of equal grade.

Table 2-10. Torque Specifications For Standard Inch Fasteners

SIZE	THREAD	CAPSCREWS: SAE GRADE 5				CAPSCREWS: SAE GRADE 8			
		TORQUE FT. LBS.		TORQUE N•m		TORQUE FT. LBS.		TORQUE N•m	
		Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
1/4	20 UNC	8	6	11	9	2	9	16	12
	28 UNF	10	7	13	10	14	10	19	14
5/16	18 UNC	17	13	24	18	25	18	33	25
	24 UNF	19	14	26	20	27	20	37	28
3/8	16 UNC	31	23	42	31	44	33	59	44
	24 UNF	35	26	47	36	49	37	67	50
7/16	14 UNC	49	37	67	50	70	52	95	71
	20 UNF	55	41	75	56	78	58	105	79
1/2	13 UNC	75	57	100	77	105	80	145	110
	20 UNF	85	64	115	86	120	90	165	120
9/16	12 UNC	110	82	145	110	155	115	210	155
	18 UNF	120	91	165	125	170	130	230	175
5/8	11 UNC	150	115	205	155	210	160	285	215
	18 UNF	170	130	230	175	240	180	325	245
3/4	10 UNC	265	200	360	270	375	280	510	380
	16 UNF	295	225	405	300	420	315	570	425
7/8	9 UNC	430	320	580	435	605	455	820	615
	14 UNF	475	355	640	480	670	500	905	680
1	8 UNC	645	485	875	655	910	680	1230	925
	14 UNF	720	540	980	735	1020	765	1380	1040
1-1/8	7 UNC	795	595	1080	805	1290	965	1750	1310
	12 UNF	890	670	1210	905	1440	1080	1960	1470
1-1/4	7 UNC	1120	840	1520	1140	1820	1360	2460	1850
	12 UNF	1240	930	1680	1260	2010	1500	2730	2050
1-3/8	6 UNC	1470	1100	1990	1490	2380	1780	3230	2420
	12 UNF	1670	1250	2270	1700	2710	2040	3680	2760
1-1/2	6 UNC	1950	1460	2640	1980	3160	2370	4290	3210
	12 UNF	2190	1650	2970	2230	3560	2670	4820	3620

Metric Fasteners

⚠ WARNING The following Table lists torque values for standard hardware and are intended as a guide for average application involving typical stresses and machined surfaces. Values are based on

physical limitations of clean, plated and lubricated hardware. In all cases, when an individual torque value is specified, it should be followed instead of values given in this table.

⚠ CAUTION Replace original equipment with hardware of equal grade.

Table 2-11. Torque Specifications For Metric Fasteners

NOMINAL SIZE & PITCH	CLASS 8.8 [GRADE 5 EQUIVALENT]				CLASS 10.9 [GRADE 8 EQUIVALENT]			
	TORQUE FT. LBS.		TORQUE N•m		TORQUE FT. LBS.		TORQUE N•m	
	Dry	Lubed	Dry	Lubed	Dry	Lubed	Dry	Lubed
M4 x 0.7	2.27	1.70	3.07	2.30	2.27	2.31	4.17	3.13
M5 x 0.8	4.58	3.43	6.20	4.65	6.22	4.67	8.43	6.33
M6 x 1	7.75	5.83	10.5	7.90	10.60	7.97	14.3	10.8
M8 x 1.25	18.89	14.17	25.6	19.2	18.95	19.26	34.8	26.1
M10 x 1.25	39.11	29.52	53.0	40.1	53.87	40.59	73.0	55.0
M12 x 1.75	64.94	48.71	88.0	66.0	88.56	66.42	120.0	90.0
M14 x 2	103.32	77.49	140.0	105.0	140.22	107.01	190.0	145.0
M16 x 2	162.36	121.77	220.0	165.0	221.40	166.05	300.0	225.0
M20 x 2.5	317.34	236.16	430.0	320.0	428.04	321.03	580.0	435.0
M24 x 3	516.12	409.59	740.0	555.0	754.38	557.19	1010.0	755.0
M27 x 3	797.04	597.78	1080.0	810.0	1084.86	811.80	1470.0	1100.0
M30 x 3.5	1084.86	811.80	1470.0	1100.0	1476.00	1107.00	2000.0	1500.0

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 and hand tighten swivel nut until snug.

4. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second, tighten the swivel nut to the torque shown in **Table 2-12. Torque Specifications For Flare Type Tube Fittings.**

NOTE: The torque values shown are based on lubricated connections as in assembly.

Table 2-12. Torque Specifications For Flare Type Tube Fittings

TUBE SIZE OD	NUT SIZE (ACROSS FLATS)	TORQUE VALUE		RECOMMENDED TURNS TO TIGHTEN (AFTER FINGER TIGHTENING)	
		(N•m)	(lb-ft)	(N•m)	(lb-ft)
(in)	(in)				
3/16	7/16	8	6	1	1/6
1/4	9/16	12	9	1	1/6
5/16	5/8	16	12	1	1/6
3/8	11/16	24	15	1	1/6
1/2	7/8	46	34	1	1/6
5/8	1	62	46	1	1/6
3/4	1 1/4	102	75	3/4	1/8
7/8	1 3/8	122	90	3/4	1/8

Full Torque Nut Coupling Installation

The only completely reliable method of creating a consistent leak free, long lasting connection is to ensure that the coupling is brought to the proper torque.

The best method of ensuring a coupling is brought to the proper torque is to use a torque wrench with crowfoot. To ensure the proper torque is met, use the flats method of torque verification. Flats method may be used alone in situations where a torque wrench is inaccessible or unavailable.

There are 7 steps involved in 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.

The minimum torque values are adequate for sealing in most applications, and the maximum torque values should never be exceeded.

2. Calculate the correct torque wrench setting using .

NOTE: The most straight forward 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).

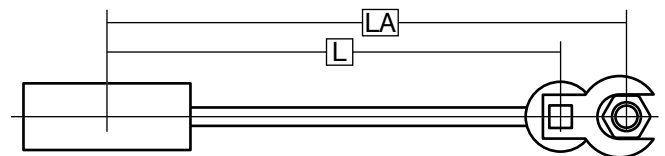


Figure 2-4. Torque Wrench - Crowfoot

NOTE: Torque Wrench Setting = Desired Torque * L / LA

3. Ensure that the seal face and threads are clean and in good condition. Do not lubricate coupling threads.

NOTE: O-rings should be lubricated with light oil, but threads should be completely dry unless making pipe thread connections (interference seal).

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.

4. Hand tighten the connection by bringing seal face in contact and rotating the nut by hand until it stops.

NOTE: By definition hand tight is 0.3-1 ft-lb or when the seal faces are touching and with the threads engaged the hex can no longer be rotated by hand.

5. Mark a line across the coupling nut and backup hex for flats method verification of coupling torque (**Figure 2-5. Flats Method Tightening**).
6. 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.

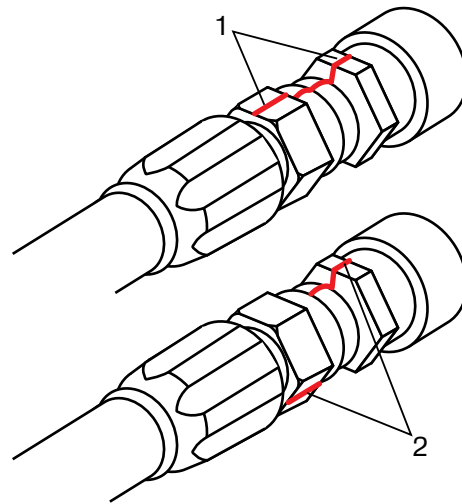


Figure 2-5. Flats Method Tightening

1 - Mark Line on Nut

2 - Example 2 Flats difference

7. If a torque wrench cannot fit into the coupling area or if it is unavailable, flats method may be used to ensure that the coupling is properly tightened, as shown in **Figure 2-5. Flats Method Tightening**.

NOTE: The mark placed on the nut and backup hex after hand tightening should have rotated 1 to 1.5 flats during final tightening. At this point in time, if desired, the nut and backup hex may be marked to indicate if the coupling loosens over time.

Table 2-13. Torque Specifications For US Style Coupling Terminations

JIC, SAE 45°, ORFS, O-Ring Boss, Gates Adapterless and MegaSeal										
Dash Size	JIC 37°, SAE 45° & MegaSeal (steel)		JIC 37°, SAE 45° & Mega-Seal (steel)		Flat Face O-Ring Seal (Steel)		SAE O-Ring Boss (Steel) & Gates Adapterless ≤ 4000 PSI		SAE O-Ring Boss (Steel) & Gates Adapterless > 4000 PSI	
1/16 Inch	ft-Lb		ft-Lb		ft-Lb		ft-Lb		ft-Lb	
	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 2-14. Torque Specifications For DIN 24, DIN 60, and Inverted Cone Style Coupling Terminations

DIN 24, DIN 60, and Inverted Cone			
Size		Torque	
mm		ft-Lb	
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 2-15. Torque Specifications For 4-Bolt Flange Connections

4-Bolt Flanges		
Dash Size	Bolt Size	Torque
1/16 Inch	Inch	ft-Lb
-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 finger tighten bolts before applying final torque in a pattern. The seal faces must be parallel with even bolt tension to seal properly.
- Torque values apply to bolts which are plated or coated in light engine oil.
- Before assembly lubricate O-ring with light oil (SAE 10W or 20W).

Determining Torque Setting

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.

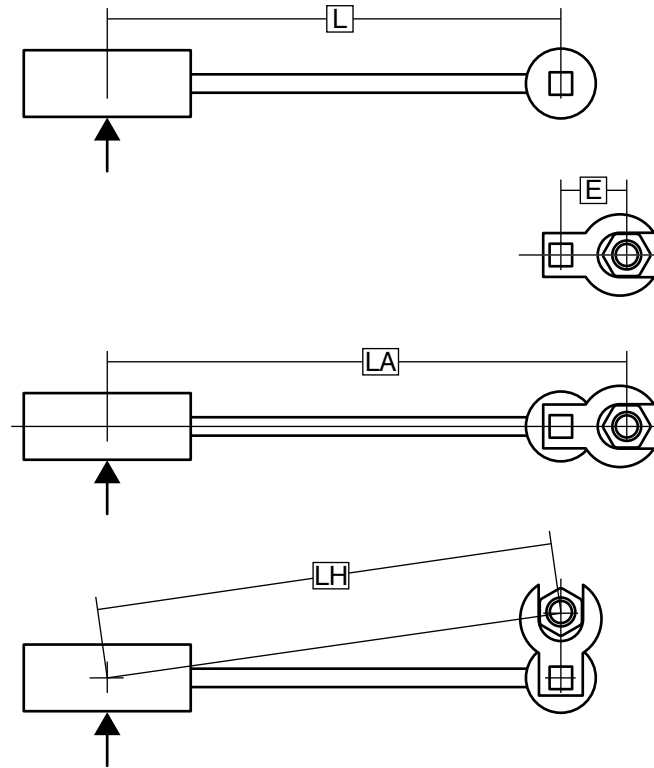


Figure 2-6. Measurements Needed

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

Equations

Equation 1

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

$$TS = TD * L / LA$$

or

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

Equation 2

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

$$TS = TD * L / LH$$

or

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

Equation 3

To estimate the crowfoot size (E)

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



Section 3

COMPONENT LOCATION

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OPERATION CONTROLS LOCATION



Figure 3-1. Location of Controls

- 1 - Instrument Panel (Dash)
- 2 - Battery Disconnect Switch
- 3 - Left Heat Control
- 4 - Right Heat Control
- 5 - Steering and Speed Control Module (both sides)

Table 3-1. Location of Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Instrument Panel (Dash)	Contains switches, indicators, and gauges (Figure 3-2; Figure 3-3; Figure 3-4)
2	Battery Disconnect Switch	Disconnects battery in OFF position. Connects battery in ON position. NOTE: Always turn switch to OFF position at the end of the day.
3	Left Heat Control	Controls heat to the left side of the screed
4	Right Heat Control	Controls heat to the right side of the screed
5	Steering and Speed Control Module	Contains the controls for Steering and Speed Control (Figure 3-5; Figure 3-6). Located on Right and Left Sides.

RIGHT INSTRUMENT PANEL (DASH)

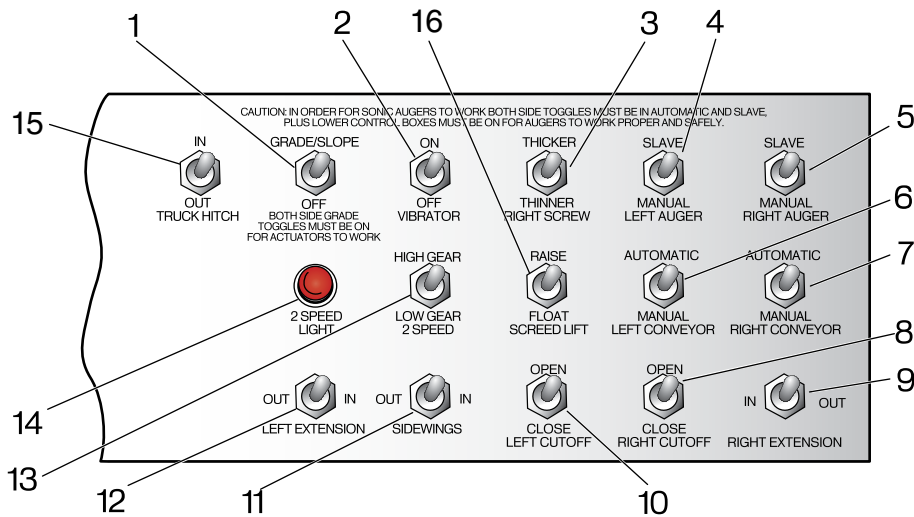


Figure 3-2. Right Instrument Panel (Dash) Controls, Indicators and Gauges

- 1 - Grade Control or Grade/Slope Switch
- 2 - Vibrator On/Off Switch
- 3 - Right Screw Thicker/Thinner Switch
- 4 - Left Auger Slave/Manual Switch
- 5 - Right Auger Slave/Manual Switch
- 6 - Left Conveyor Automatic/Manual Switch
- 7 - Right Conveyor Automatic/Manual Switch
- 8 - Right Cutoff Open/Close Switch
- 9 - Right Extension In/Out Switch
- 10 - Left Cutoff Open/Close Switch
- 11 - Side Wings In/Out Switch
- 12 - Left Extension In/Out Switch
- 13 - 2-Speed High/Low Switch
- 14 - 2-Speed Light
- 15 - Truck Hitch In/Out (Optional Switch)
- 16 - Screed Lift Manual/Float Switch

Table 3-2. Instrument Panel (Dash) Controls, Indicators and Gauges RIGHT SIDE

ITEM NO.	CONTROL NAME	FUNCTION
1	Grade Control or Grade/Slope Switch	When switch is in the GRADE position, power is ON all the time regardless of the position of the joystick (Figure 3-5,1) . NOTE: Switch must be in ON position on Right Hand all the time. Left hand switch selects manual or automatic.
2	Vibrator On/Off Switch	Turns the screed vibrator on or off. In ON position helps compact material. Only works when Joystick is in the forward position.
3	Right Screw Thicker/ Thinner Switch	Sets the thickness of the asphalt. Place switch in THICKER position for thicker asphalt. Place switch in THINNER position for thinner asphalt. NOTE: The Grade Control Grade/Slope Switch (Figure 3-1,1) on both the left and right side of dash must be set to GRADE to turn power on.
4	Left Auger Slave/ Manual Switch	Selects slave or manual operation of left auger. Center position for Off. SLAVE position for automatic operation. MANUAL position provides manual override. NOTE: If running from left side, leave switches on right side in SLAVE position at all times. NOTE: In order for sonic augers to work, both LEFT and RIGHT AUGER switches must be in the SLAVE position and the Left Auger and Right Auger Automatic/Manual Switches on the left side dash must be in the AUTOMATIC position. NOTE: Make sure that the Auger On/Off Switch on the remote boxes at the screed are set to the ON position.
5	Right Auger Slave/ Manual Switch	Selects slave or manual operation of right auger. Center position for Off. SLAVE position for Automatic Operation. MANUAL position provides manual override. NOTE: If running from left side, leave switches on right side in SLAVE position at all times. NOTE: In order for sonic augers to work, both Left and Right Auger Switches must be in the SLAVE position and the Left Auger and Right Auger Automatic/Manual Switch on the left side dash must be in the AUTOMATIC position.
6	Left Conveyor Automatic/Manual Switch	Selects automatic or manual override for left conveyor. Center is OFF position. For automatic operation set switch to AUTOMATIC position. Conveyor can be operated from left or right side dash. MANUAL position provides override. Select side operating machine from.
7	Right Conveyor Automatic/Manual Switch	Selects automatic or manual override for right conveyor. Center is OFF position. For automatic operation set switch to AUTOMATIC position. Conveyor can be operated from left or right side dash. MANUAL position provides override. Select side operating machine from.
8	Right Cutoff Open/ Close Switch	Used to open or close the right cutoff. Move switch to the OPEN position to open right cutoff. Move switch to CLOSE position to close right cutoff. NOTE: Cutoff can be operated from either side of the dash.

RIGHT INSTRUMENT PANEL (DASH) – CONTINUED

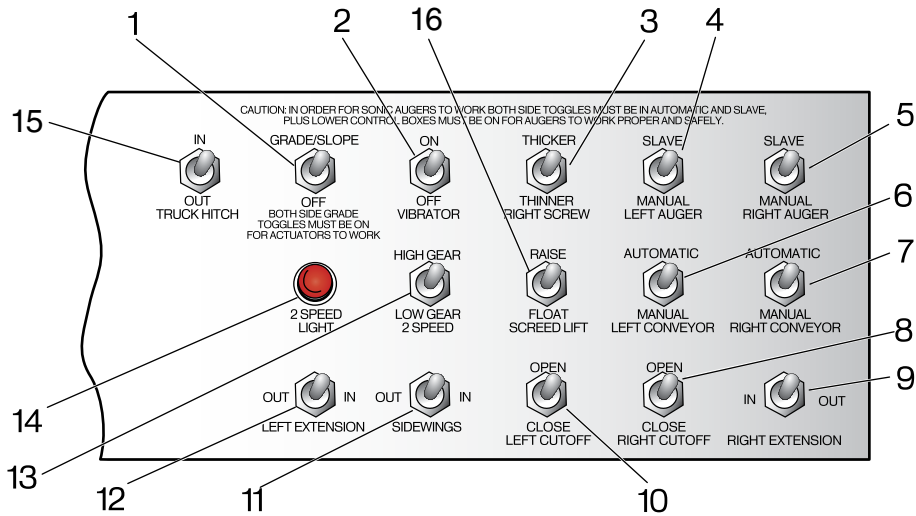


Figure 3-2. Right Instrument Panel (Dash) Controls, Indicators and Gauges – Continued

- 1 - Grade Control or Grade/Slope Switch
- 2 - Vibrator On/Off Switch
- 3 - Right Screw Thicker/Thinner Switch
- 4 - Left Auger Slave/Manual Switch
- 5 - Right Auger Slave/Manual Switch
- 6 - Left Conveyor Automatic/Manual Switch
- 7 - Right Conveyor Automatic/Manual Switch
- 8 - Right Cutoff Open/Close Switch
- 9 - Right Extension In/Out Switch
- 10 - Left Cutoff Open/Close Switch
- 11 - Side Wings In/Out Switch
- 12 - Left Extension In/Out Switch
- 13 - 2-Speed High/Low Switch
- 14 - 2-Speed Light
- 15 - Truck Hitch In/Out (Optional Switch)
- 16 - Screed Lift Manual/Float Switch

Table 3-2. Right Instrument Panel (Dash) Controls, Indicators and Gauges – Continued

ITEM NO.	CONTROL NAME	FUNCTION
9	Right Extension In/Out Switch	Used to move the right extension in or out. Push switch to OUT position to move right extension out. Push switch to IN position to move right extension in. NOTE: Right Extension Switch also located on Remote Box on right side of machine.
10	Left Cutoff Open/Close Switch	Used to open or close the left cutoff. Set switch to the OPEN position to open left cutoff. Set switch to CLOSE position to close left cutoff. NOTE: Cutoff can be operated from either side of the dash.
11	Side Wings In/Out Switch	Used to move the side wings in or out. Push switch to OUT position to move side wings out. Push switch to IN position to move side wings in.
12	Left Extension In/Out Switch	Used to move the left extension in or out. Push switch to OUT position to move left extension out. Push switch to IN position to move left extension in. NOTE: Left Extension Switch also located on Remote Box on left side of machine.
13	2-Speed High/Low Switch	Used to change machine speed. Place switch in LOW position for work. HIGH is only used for travel. For low speed operation both left and right switches must be in LOW. Place switch in HIGH position for travel. When in TRAVEL red 2-Speed Light (Figure 3-2,14) will illuminate. NOTE: High speed is only for traveling. Never pave in high speed.
14	2-Speed Light	Illuminates to indicate when 2-Speed High/Low Switch is in the HIGH position.
15	Truck Hitch In/Out (Optional Switch)	Used to engage the truck hitch to the truck wheels. Set switch to IN position to engage the hitch. Set switch to the OUT position to release the hitch from the truck wheels. NOTE: Only if installed with truck hitch, manual valve on left side of machine must be in TRUCK HITCH position to work truck hitch. If in CONVEYOR position, it will raise and lower conveyor.
16	Screed Lift Manual/Float Switch	Used to raise or float the screed. Center position is hold. When released, switch automatically returns to center position. Center holds the screed position. To raise the screed, set switch to RAISE position. To float the screed, set switch to FLOAT position. (Switch should lock in FLOAT position. Run from one side only. Other side should be in the CENTER position.) NOTE: If one side is on FLOAT and you try to RAISE opposite side, it will not raise.

CENTER INSTRUMENT PANEL (DASH) AND POWERVIEW™ DISPLAY



Figure 3-3. Center Instrument Panel (Dash) Controls and Powerview Display

- 1 - Powerview™ Display
- 2 - Ignition Switch
- 3 - Preheat Light
- 4 - Wait to Start Light
- 5 - Alternator Failure Light
- 6 - Conveyor Raise/Lower Switch
- 7 - Work Light Switch
- 8 - Emergency Brake (E-STOP) Button
- 9 - Horn Button
- 10 - Beacon Light Switch
- 11 - Spray Down Switch
- 12 - Plus One Indicator Light

Table 3-3. Center Instrument Panel (Dash) Controls, Indicators and Gauges

ITEM NO.	CONTROL NAME	FUNCTION
1	Powerview™ Display	Displays important information about the paver and engine. Sets throttle points (see “ Powerview™ Display ” on page 4-8).
2	Ignition Switch	Controls starting, stopping, and running of engine. Vertical position is OFF. Turn left to heat engine. Turn right one notch for power. Red light will illuminate until engine cranks. Far right is the START position. After engine starts release switch, which will automatically return to the power position. Use protective cover when not in use. NOTE: Engine will not start unless speed control joystick(s) is in NEUTRAL (Figure 3-5,2; Figure 3-6,2).
3	Preheat Light	If ambient temperature is low enough the preheat cycle will begin when ignition is set to run. Once cylinders are heated preheat light will turn off and the engine start up procedure can be resumed.
4	Wait to Start Light	Illuminates during starting procedure. Starter will not engage until light turns off.
5	Alternator Failure Light	Illuminates when no voltage is sensed from the alternator. Will light during startup prior to engine start. Indicates an engine fault when illuminated. NOTE: Refer to engine operator’s manual and an authorized LeeBoy Dealer.
6	Conveyor Raise/Lower Switch	Controls raising and lowering of conveyor.
7	Work Light Switch	Used to turn the work lights on or off. Set switch to WORK LIGHTS position to turn the work lights on.
8	Emergency Brake (E-STOP) Button	Press Emergency Brake (E-STOP) Button to immediately disable paver propel functions only. Turn clockwise (CW) to release Emergency Brake (E-STOP) Button. NOTE: The Emergency Brake (E-STOP) Button remains in a locked down position until it is manually released.
9	Horn Button	Press button to sound the horn.
10	Beacon Light Switch	Used to turn the beacon light on or off. Set switch to BEACON position to turn the Beacon light on.
11	Spray Down Switch	Used to turn spray down on and off. UP position turns spray down on.
12	Plus One Indicator Light	Illuminates when there is a fault code in the Plus One system. See “ Maintenance ” section for more information.

LEFT INSTRUMENT PANEL (DASH)

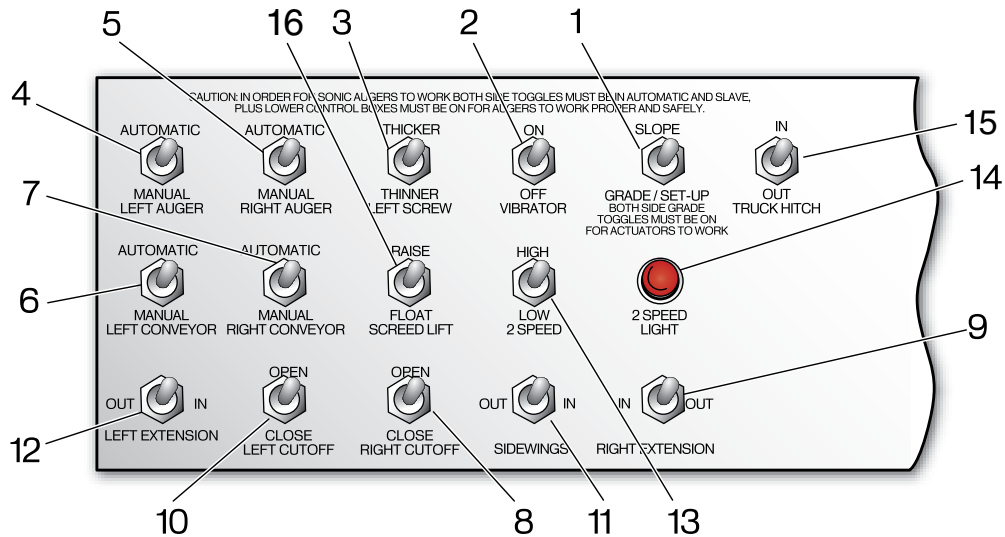


Figure 3-4. Left Instrument Panel (Dash) Controls, Indicators and Gauges

- 1- Grade Control or Grade/Slope Switch
- 2- Vibrator On/Off Switch
- 3- Left Screw Thicker/Thinner Switch
- 4- Left Auger Automatic/Manual Switch
- 5- Right Auger Automatic/Manual Switch
- 6- Left Conveyor Automatic/Manual Switch
- 7- Right Conveyor Automatic/Manual Switch
- 8- Right Cutoff Open/Close Switch
- 9- Right Extension In/Out Switch
- 10- Left Cutoff Open/Close Switch
- 11- Side Wings In/Out Switch
- 12- Left Extension In/Out Switch
- 13- 2-Speed High/Low Switch
- 14- 2-Speed Light
- 15- Truck Hitch In/Out (Optional Switch)
- 16- Screed Lift Manual/Float Switch

Table 3-4. Left Instrument Panel (Dash) Controls, Indicators and Gauges

ITEM NO.	CONTROL NAME	FUNCTION
1	Grade Control or Grade/Slope Switch	<p>When switch is in the GRADE position, power is ON all the time regardless of the position of joysticks (Figure 3-5,2).</p> <p>NOTE: When machine is equipped with grade and slope, you should select slope so that joysticks control ON/OFF. This will eliminate changes in Tow Cylinders when not moving. Power is present only when the joystick is in the FORWARD position. In the NEUTRAL position of the Grade Slope Switch, all power is turned off.</p> <p>NOTE: Anytime in MANUAL you will have power.</p>
2	Vibrator On/Off Switch	<p>Turns the screed vibrator on or off. In ON position helps compact material. Only works when joysticks are in FORWARD position. Toggle must be in ON position on active operating side.</p>
3	Left Screw Thicker/ Thinner Switch	<p>Sets the thickness of the asphalt. Place switch in THICKER position for thicker asphalt. Place switch in THINNER position for thinner asphalt.</p> <p>NOTE: The Grade Control Grade/Slope Switch (Figure 3-4,1) on both the left and right side of dash must be set to GRADE to turn power on.</p>
4	Left Auger Automatic/ Manual Switch	<p>Selects auto or manual operation of left auger. Center position for Off. AUTO position for automatic operation. MANUAL position provides manual override.</p> <p>NOTE: If running from left side, leave switches on right side in SLAVE position at all times.</p> <p>NOTE: In order for sonic augers to work, both Left and Right Auger Switches must be in the SLAVE position on right side dash and the Left Auger and Right Auger Automatic/Manual Switches on the left side dash must be in the AUTOMATIC position.</p> <p>NOTE: Make sure that the Auger On/Off Switch on the remote boxes at the screed are set to the ON position.</p>
5	Right Auger Automatic/ Manual Switch	<p>Selects auto or manual operation of right auger. Center position for Off. AUTO position for Automatic Operation. MANUAL position provides manual override.</p> <p>NOTE: If running from left side, leave switches on right side in SLAVE position at all times.</p> <p>NOTE: In order for sonic augers to work, both Left and Right Auger Switches must be in the SLAVE position and the Left Auger And Right Auger Automatic/Manual Switch on the left side dash must be in the AUTOMATIC position.</p> <p>NOTE: Make sure that the Auger On/Off Switch on the remote boxes at the screed are set to the ON position.</p>
6	Left Conveyor Automatic/Manual Switch	<p>Selects automatic or manual override for left conveyor. Center is OFF position. For automatic operation set switch to AUTOMATIC position. Conveyor can be operated from left or right side dash. MANUAL position provides override.</p>

LEFT INSTRUMENT PANEL (DASH) – CONTINUED

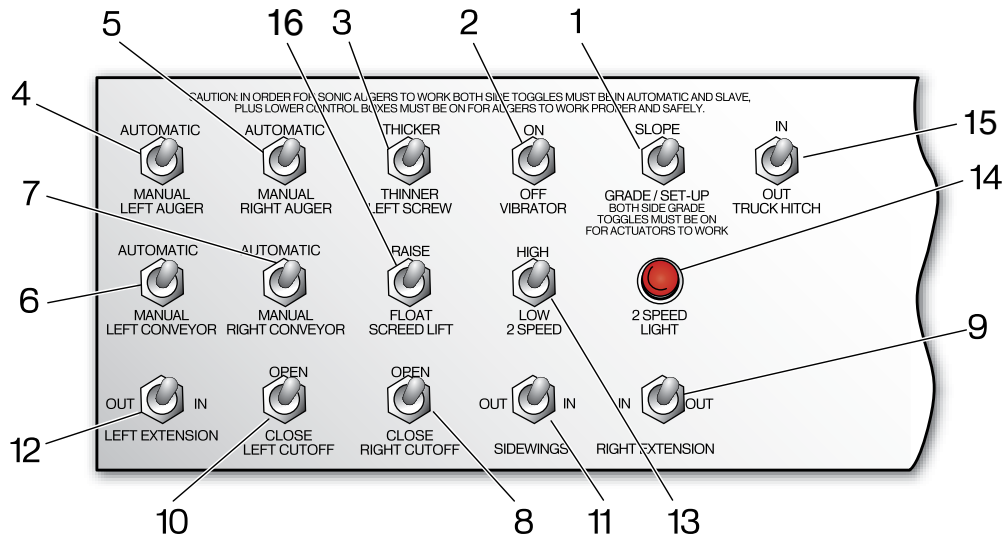


Figure 3-4. Left Instrument Panel (Dash) Controls, Indicators and Gauges – Continued

- 1- Grade Control or Grade/Slope Switch
- 2- Vibrator On/Off Switch
- 3- Left Screw Thicker/Thinner Switch
- 4- Left Auger Automatic/Manual Switch
- 5- Right Auger Automatic/Manual Switch
- 6- Left Conveyor Automatic/Manual Switch
- 7- Right Conveyor Automatic/Manual Switch
- 8- Right Cutoff Open/Close Switch
- 9- Right Extension In/Out Switch
- 10- Left Cutoff Open/Close Switch
- 11- Side Wings In/Out Switch
- 12- Left Extension In/Out Switch
- 13- 2-Speed High/Low Switch
- 14- 2-Speed Light
- 15- Truck Hitch In/Out (Optional Switch)
- 16- Screed Lift Manual/Float Switch

Table 3-4. Left Instrument Panel (Dash) Controls, Indicators and Gauges – Continued

ITEM NO.	CONTROL NAME	FUNCTION
7	Right Conveyor Automatic/Manual Switch	Selects automatic or manual override for right conveyor. Center is OFF position. For automatic operation set switch to AUTOMATIC position. Conveyor can be operated from left or right side dash. MANUAL position provides override.
8	Right Cutoff Open/Close Switch	Used to open or close the right cutoff. Set switch to the OPEN position to open right cutoff. Set switch to CLOSE position to close right cutoff. NOTE: Cutoff can be operated from either side of the dash.
9	Right Extension In/Out Switch	Used to move the right extension in or out. Push switch to OUT position to move right extension out. Push switch to IN position to move right extension in. NOTE: Right Extension Switch (Figure 3-4,1) also located on Remote Box on right side of machine.
10	Left Cutoff Open/Close Switch	Used to open or close the left cutoff. Set switch to the OPEN position to open left cutoff. Set switch to CLOSE position to close left cutoff. NOTE: Cutoff can be operated from either side of the dash.
11	Side Wings In/Out Switch	Used to move the side wings in or out. Push switch to OUT position to move side wings out. Push switch to IN position to move side wings in.
12	Left Extension In/Out Switch	Used to move the left extension in or out. Push switch to OUT position to move left extension out. Push switch to IN position to move left extension in. NOTE: Left Extension Switch (Figure 3-4,2) also located on Remote Box on left side of machine.
13	2-Speed High/Low Switch	Used to change machine speed. Place switch in LOW position for work. HIGH is only used for travel. For low speed operation both left and right switches must be in LOW. Place switch in HIGH position for travel. (When in HIGH red 2-Speed Light (Figure 3-4,14) will illuminate.) NOTE: High speed is only for traveling. Never pave in high speed.
14	2-Speed Light	Illuminates to indicate when 2-Speed High/Low Switch is in the HIGH position.
15	Truck Hitch In/Out (Optional Switch)	Used to engage the truck hitch to the truck wheels. Set switch to IN position to engage the hitch. Set switch to the OUT position to release the hitch from the truck wheels. NOTE: Only if installed with truck hitch, manual valve on left side of machine must be in TRUCK HITCH position to work truck hitch. If in CONVEYOR position, it will raise and lower conveyor.
16	Screed Lift Manual/Float Switch	Used to raise or float the screed. Center position is hold. When released, switch automatically returns to center position. Center holds the screed position. To raise the screed, set switch to RAISE position. To float the screed, set switch to FLOAT position. (Switch should lock in FLOAT position. Run from one side only. Other side should be in the CENTER position. NOTE: If one side is on FLOAT and you try to RAISE opposite side, it will not raise.

STEERING AND SPEED CONTROL MODULE – DUAL JOYSTICKS



Figure 3-5. Steering and Speed Control Module - Dual Joystick

- 1- Left Forward/Reverse Steering Joystick
- 2 - Right Forward/Reverse Steering Joystick
- 3 - Run/Stop Switch

Table 3-5. Steering and Speed Control Module – Joystick

ITEM NO.	CONTROL NAME	FUNCTION
1	Left Forward/Reverse Steering Joysticks	<p>Lever controls the speed and direction of travel forward and reverse. Moving joystick forward moves machine forward. The farther forward the faster the speed. Moving joystick backward moves machine backward. The farther backward the faster the speed. When Joystick is centered, the machine is in neutral and brake comes on.</p> <p>NOTE: Machine must be in neutral to start machine.</p> <p>NOTE: You can only use one steering control module at a time. When steering paver with control module, the Run/Stop Switch (Figure 3-5,3) must be in RUN position on the module in use and STOP position on the other module not in use.</p>
2	Right Forward/Reverse Steering Joysticks	<p>Lever controls the speed and direction of travel forward and reverse. Moving joystick forward moves machine forward. The farther forward the faster the speed. Moving joystick backward moves machine backward. The farther backward the faster the speed. When Joysticks is centered, the machine is in neutral and brake comes on.</p> <p>NOTE: Machine must be in neutral to start machine.</p> <p>NOTE: You can only use one steering control module at a time. When steering paver with control module, the Run/Stop Switch (Figure 3-5,3) must be in RUN position on the module in use and STOP position on the other module not in use.</p>
3	Run/Stop Switch	<p>The RUN/STOP switch controls stopping the machine and activating/deactivating the operator control station. When the switch is set to the STOP position, operator control station is deactivated, parking brake is applied, and machine will not move. When switch is set to RUN, operator control station is activated, parking brake is released, and machine resumes to previously set speed.</p> <p>NOTE: Only one operator control station can be active at a time.</p> <p>NOTE: If the position of the joystick(s) has NOT changed from when the Run/Stop Switch is moved to the STOP position and then later switched to the RUN position, then paver will resume travel at the same speed of travel when the switch is set to the RUN position.</p> <p>If the position of the joystick(s) HAS changed from when the Run/Stop Switch is moved to the STOP position then later switched to the RUN position, the paver travel function will be temporarily disabled until joysticks are returned to the NEUTRAL position.</p>

STEERING AND SPEED CONTROL MODULE – STEERING WHEEL (OPTION)



Figure 3-6. Steering and Speed Control Module – Steering Wheel

- 1 - Forward/Reverse Steering Joystick
- 2 - Steering Wheel
- 3 - Neutral Lock
- 4 - Run/Stop Switch

Table 3-6. Table 5-6. Steering and Speed Control Module – Steering Wheel

ITEM NO.	CONTROL NAME	FUNCTION
1	Forward/Reverse Steering Joystick	<p>Lever controls the speed of travel forward and reverse. Moving joystick forward moves machine forward. The farther forward the faster the speed. Moving joystick backward moves machine backward. The farther backward the faster the speed. When Joystick is centered, the machine is in neutral and brake comes on.</p> <p>NOTE: Machine must be in neutral to start machine.</p>
2	Steering Wheel	<p>Controls the direction of travel Right and Left. Rotating steering wheel right moves machine to the right. The farther right the more aggressively machine turns to the right. Rotating steering wheel left moves machine to the left. The farther left the more aggressively machine turns to the left. When wheel is centered, the machine should travel in a straight direction.</p>
3	Neutral Lock	<p>Locks the Forward/Reverse Steering Joystick in neutral.</p>
4	Run/Stop Switch	<p>The Run/Stop Switch controls stopping the machine and activating/deactivating the operator control station. When the switch is set to the STOP position, operator control station is deactivated, parking brake is applied, and machine will not move. When switch is set to RUN, operator control station is activated, parking brake is released, and machine resumes to previously set speed.</p> <p>NOTE: Only one operator control station can be active at a time.</p> <p>NOTE: If the position of the joystick(s) has NOT changed from when the Run/Stop Switch is moved to the STOP position and then later switched to the RUN position, then paver will resume travel at the same speed of travel when the switch is set to the RUN position.</p> <p>If the position of the joystick(s) HAS changed from when the Run/Stop Switch is moved to the STOP position then later switched to the RUN position, the paver travel function will be temporarily disabled until joysticks are returned to the NEUTRAL position.</p>

RIGHT SIDE CONTROLS



*Figure 3-7. Right Side Controls**

- 1 - Dash Panel Lock Pin
- 2 - Right Auger and Extension Remote Screed Box
- 3 - Flight Screw
- 4 - Depth Screw
- 5 - Screed Heat (Location)
- 6 - Crown and Valley
- 7 - Spray Down Hose

(Model shown with LeeBoy Model Legend 815HD Electric Screed System option.)*

Table 3-7. Right Side Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Dash Panel Lock Pin	Locks dash panel in position. To move dash from high to low position, pull out pin and pull handle to lower position. Lock is for high position only.
2	Right Auger and Extension Remote Screed Box	Contains switches for Right Extension In/Out and Right Auger On/Off (). Also contains slope (option) when ordered. NOTE: Auger switch should be left in ON position if augers are to run. Auger and screed extensions can be operated by a person standing or sitting in low deck position.
3	Flight Screw	This lever controls the depth of the asphalt.
4	Depth Screw	This control sets the depth of the Endgate.
5	Screed Heat	Use heat box to control screed heat on electric screeds and igniter to light burners on propane screeds.
6	Crown and Valley	This allows the screed to be bent in the middle to match the desired crown or valley.
7	Spray Down Hose	Used to lubricate and keep asphalt from hardening on the machine.

LEFT SIDE CONTROLS



Figure 3-8. Left Side Controls

- 1- Sonic Auger Adjustment
- 2- Left Auger and Extension Remote Screed Box
- 3- Flight Screw
- 4- Depth Screw
- 5- Heat Control Box (Option) Also Propane Tank Location (Not Shown)
- 6- Sonic Auger Sensor
- 7- Hydraulic Oil Sight Gauge
- 8- Spray Down Hose
- 9- Adjustment Screw (Angel of Attack)

(*Model shown with LeeBoy Model Legend 815HD Electric Screed System option.)

Table 3-8. Left Side Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Sonic Auger Adjustment	Adjusts the height of material at Sonic Auger Sensor (Figure 3-8,1) mounted on Endgate.
2	Left Auger and Extension Remote Screed Box	Contains toggle switches for Left Extension In/Out and Left Auger On/Off. NOTE: Auger toggle should be left in ON position if augers are to run. Auger and screed extensions can be operated by a person standing or sitting in Low Deck Position.
3	Flight Screw	This lever controls the depth of the asphalt.
4	Depth Screw	This control sets the depth of the Endgate.
5	Heat Control Box	Turns electric screed heat elements on and off. If propane model: Regulates propane pressure. NOTE: Pressure should be 15 lbs.
6	Sonic Auger Sensor	Used for adjusting the height of material at Endgate. Connected to Sonic Auger Adjustment (Figure 3-8,1).
7	Hydraulic Oil Sight Gauge	Monitors the temperature of the hydraulic fluid.
8	Spray Down Hose	Used to lubricate and keep asphalt from hardening on the machine.
9	Adjustment Screw (Angel of Attack)	Used to adjust the extension of the screed for mat texture.

LEGEND ELECTRIC SCREED OPERATION CONTROLS (OPTION)

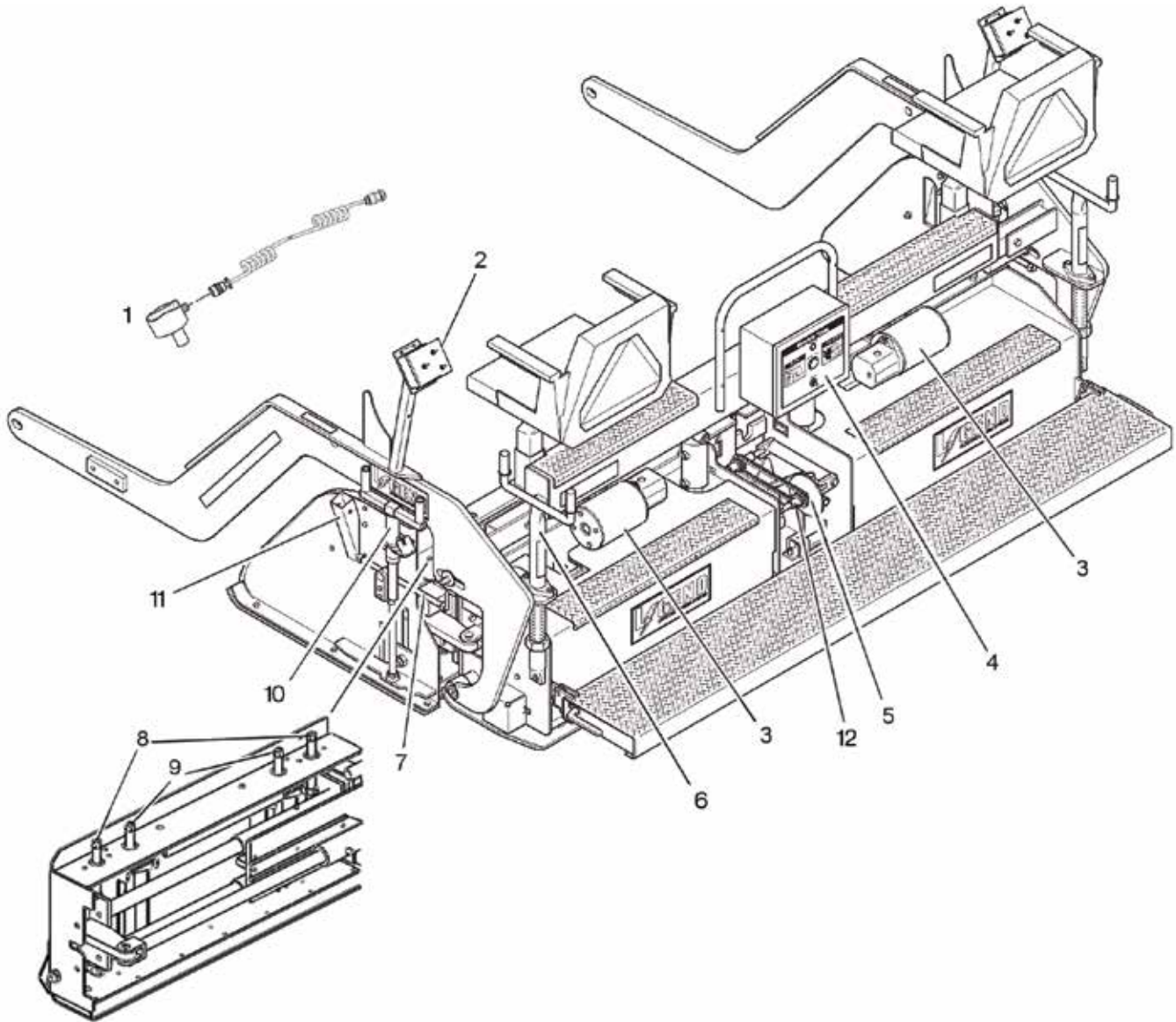


Figure 3-9. Legend Electric Screed Operation Controls

- | | |
|-----------------------------------|--|
| 1 - Sonic Auger Sensor | 7 - Tilt Screw |
| 2 - Screed Operator Control Panel | 8 - Adjustment Screw (Vertical) |
| 3 - Screed Vibrator | 9 - Adjustment Screw (Angle of Attack) |
| 4 - Heat Control Box | 10 - Depth Screw |
| 5 - Crown & Valley Adjuster | 11 - Sonic Auger Sensor Mount |
| 6 - Flight Screw | 12 - Crown & Valley Indicator |

Table 3-9. Electric Screed Operation Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Sonic Auger Sensor	Connected to Sonic Auger Adjustment. For reference only.
2	Screed Operator Control Panel	Contains controls for screed operation (Figure 3-12).
3	Screed Vibrator	Provides vibration to screed frame for better mat compaction.
4	Heat Control Box	Has a Power Switch (Figure 3-11,1), a Start Heat Button (Figure 3-11,2), and a Heat Cycle Indicator Light (Figure 3-11,3). Houses element breakers.
5	Crown & Valley Adjuster	Adjusts for positive crown or negative valley in wear plate.
6	Flight Screw	This screw controls the depth of the asphalt.
7	Tilt Screw	Used to adjust the tilt on Endgate.
8	Adjustment Screw (Vertical)	Adjusts the front of the extension to provide the best mat texture. Up or down and can level extension wear plate at wide widths.
9	Adjustment Screw (Angle of Attack)	Used to adjust the extension of the screed for mat texture.
10	Depth Screw	Sets the depth of the Endgate.
11	Sonic Auger Sensor Mount	Holds the Sonic Auger Sensor in proper position to maintain the proper height of augered material.
12	Crown & Valley Indicator	Shows the amount of crown in screed.

815HD SCREED OPERATION CONTROLS (OPTION)

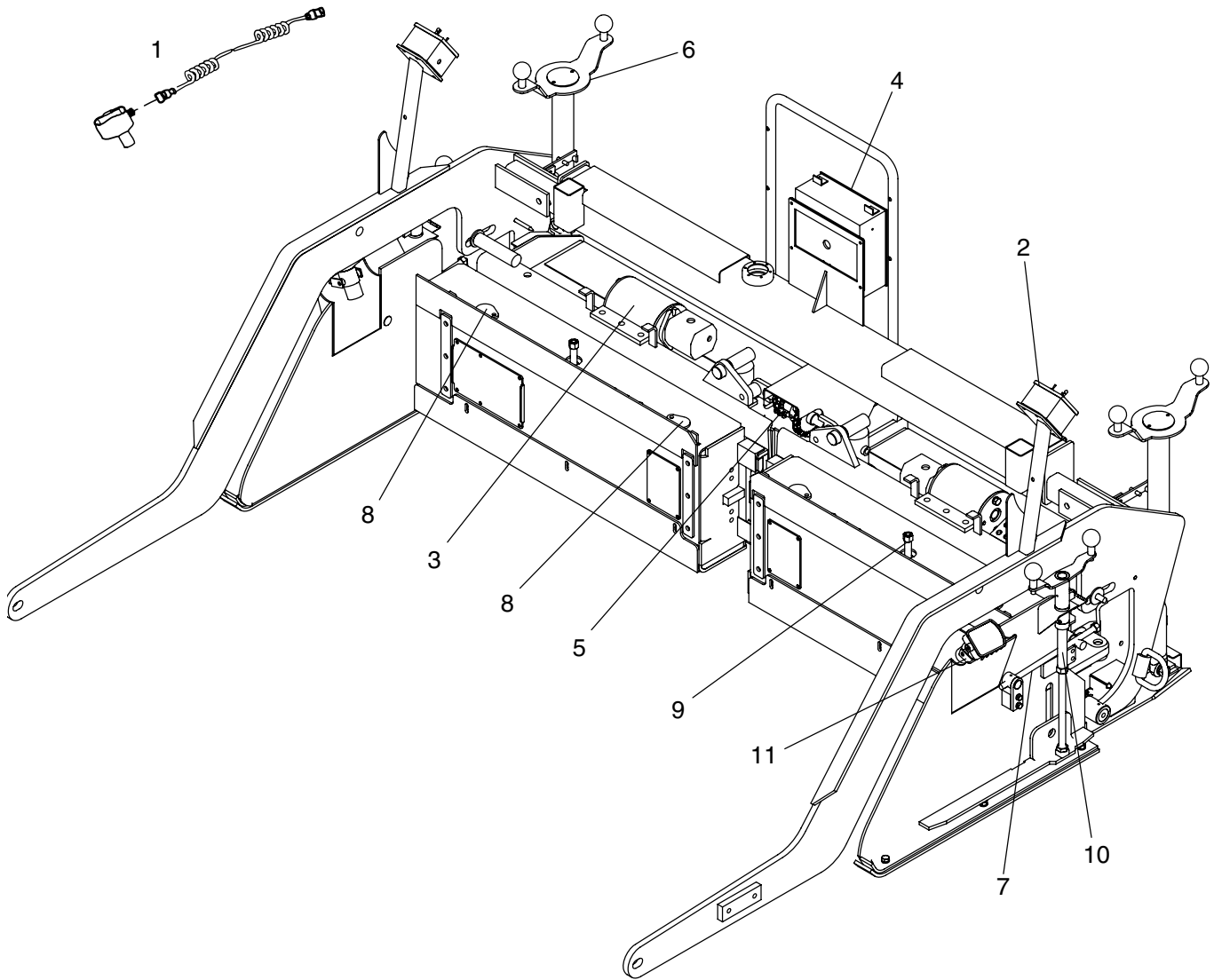


Figure 3-10. 815HD Screed Operation Controls

- | | |
|--|---|
| 1 - Sonic Auger Sensor | 8 - Adjustment Screw (Vertical) |
| 2 - Screed Operator Control Box | 9 - Adjustment Screw (Angle of Attack) |
| 3 - Screed Vibrator | 10 - Depth Screw |
| 4 - Heat Control Box | 11 - Sonic Auger Sensor Mount |
| 5 - Crown & Valley Adjuster | |
| 6 - Flight Screw | |
| 7 - Tilt Screw | |

Table 3-10. Electric Screed Operation Controls

ITEM NO.	CONTROL NAME	FUNCTION
1	Sonic Auger Sensor	Connected to Sonic Auger Adjustment. For reference only.
2	Screed Operator Control Box	Contains controls for screed operation (Figure 3-12).
3	Screed Vibrator	Provides vibration to screed frame for better mat compaction.
4	Heat Control Box	Has a power switch (Figure 3-11,1), a START HEAT button (Figure 3-11,2), and a heat cycle indicator light (Figure 3-11,3). Houses element breakers.
5	Crown & Valley Adjuster	Adjusts for positive crown or negative valley in wear plate.
6	Flight Screw	This screw controls the depth of the asphalt.
7	Tilt Screw	Used to adjust the tilt on Endgate.
8	Vertical Lift Screw	Adjusts the front of the extension to provide the best mat texture. Up or down and can level extension wear plate at wide widths.
9	Angle of Attack Screw	Adjusts the back end of the front of the extension. Tilt Rougher/Smother.
10	Depth Screw	This control sets the depth of the Endgate.
11	Sonic Auger Sensor Mount	Holds the Sonic Auger Sensor in proper position to maintain the proper height of augered material.

ELECTRIC HEAT CONTROL BOX (OPTION)

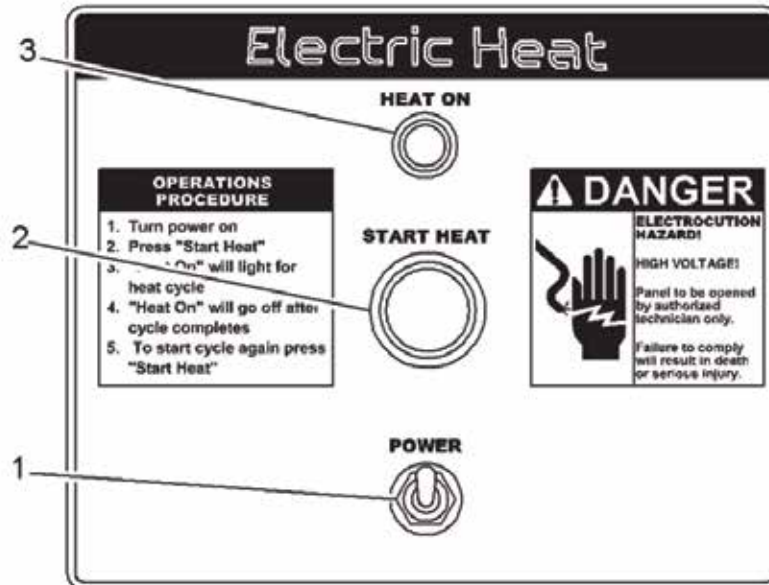


Figure 3-11. Electric Heat Control Box

- 1 - Power Switch
- 2 - Start Heat Button
- 3 - Heat On Indicator Light

Table 3-11. Electric Heat Control Box

ITEM NO.	CONTROL NAME	FUNCTION
1	Power Switch	Push switch UP to turn power on. Pull switch DOWN to turn power off.
2	Start Heat Button	Starts heating cycle when pressed.
3	Heat On Indicator Light	Illuminates when heating cycle begins and remains on as long as elements are heating screed plates.

Screed Operator Control Boxes

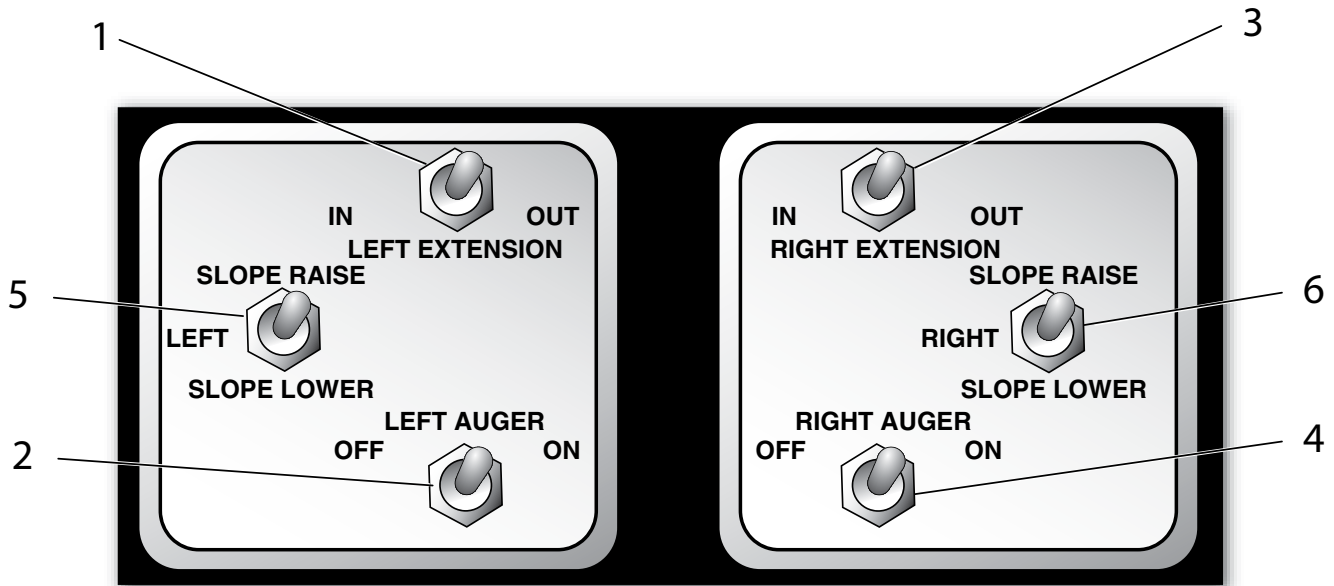


Figure 3-12. Left and Right Screed Operator Control Boxes

- 1 - Left Extension IN/OUT Switch
- 2 - Left Auger ON/OFF Switch
- 3 - Right Extension IN/OUT Switch
- 4 - Right Auger OFF/ON Switch
- 5 - Left Slope Raise/Lower Switch (Option)
- 6 - Right Slope Raise/Lower Switch (Option)

Table 3-12. Left and Right Screed Operator Control Boxes

ITEM NO.	CONTROL NAME	FUNCTION
1	Left Extension IN/OUT	IN position moves left extension in. OUT position moves left extension out. Center position stops movement. NOTE: Toggle switch can also be used to operate power crown option if equipped and selector valve is active.
2	Left Auger OFF/ON	Turns the left auger ON or OFF. Auger Switch should be left in ON position if augers are to run. IN position moves extension in. OUT position moves extension out. Center position stops movement.
3	Right Extension IN/OUT	IN position moves right extension in. OUT position moves right extension out. Center position stops movement. NOTE: Switch can also be used to operate power crown option if equipped and selector valve is active.
4	Right Auger OFF/ON	Turns the right auger ON or OFF. Auger Switch should be right in ON position if augers are to run.
5	Left Slope Raise and Lower (Option)	UP position raises left slope. DOWN position lowers left slope. Center position stops movement.
6	Right Slope Raise and Lower (Option)	UP position raises right slope. DOWN position lowers right slope. Center position stops movement.

NOTES



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OPERATION

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GENERAL INFORMATION

Before operating the LeeBoy Model 8515C Conveyor Paver, you must read the following safety information and review **Safety** in Section 1.

⚠ DANGER Operation Hazard! Never allow anyone who is not properly trained to operate this paver. Only authorized personnel who are properly trained in the operation of the paver can operate the LeeBoy Model 8515C Conveyor Paver.

⚠ DANGER Operation Hazard! Do not operate a paver that requires repairs or scheduled maintenance. Put an information tag on the instrument panel that says “DO NOT OPERATE.” Remove the key from the ignition switch. Repair all damage at once and perform routine maintenance. Minor damage can result in major system failure.

⚠ DANGER Operation Hazard! Never leave machine operator station unattended with machine in gear and/or in motion. Operator station is defined as the platform area within arms reach of active control steering box. Operator must remain in operator’s station at all times when machine is in gear and/or in motion. Before leaving machine operator station, operator must return joysticks to neutral position and move RUN/STOP switch to STOP position.

⚠ DANGER Electrocuting Hazard! Do not operate a LeeBoy Model 8515C Conveyor Paver that has damaged wires and/or cables. Damaged wires and cables could cause an electrical shock that could result in serious injury or death. Inspect wires and cables to ensure that no damage has occurred before operating the LeeBoy Model 8616 Conveyor Paver.


⚠ DANGER Rapid counter-rotation in either direction, clockwise (CW) or counterclockwise (CCW) could result in operator being thrown from machine resulting in personal injury or death. Counter-rotation is defined as one joystick in extreme forward position and opposite joystick in extreme rear position while machine is in gear and moving forward or reverse. Make only slow adjustments to joysticks or steering wheel to turn machine.

SAFETY

- Verify there are no people, obstacles or other equipment near or in the line of travel of the LeeBoy Model 8515C Conveyor Paver before starting the engine.
- Work slowly in tight areas.
- Avoid steep hills if possible.
- Always look before changing the direction of travel.
- Always park the paver on solid, level ground in low range. If this is not possible, always park the paver at a right angle to the slope. Lower screed when parked.
- Use proper flags, barriers and warning devices, especially when parking in areas of traffic.
- Do not run engine in a closed building for long periods of time.
- Never open a valve to burner unless a flame is present. Heat screed for no more than 15 minutes.
- Make sure all valves are closed before propane is turned ON.
- Avoid leaving engine running without operator present.
- Never work on the paver with the engine running.
- Do not change the engine governor settings.
- Always replace damaged or lost decals.
- Disconnect battery cables when working on the electrical system or when welding on the unit.
- If battery needs a charge, be sure battery charger is off when making connections.
- Be sure the correct battery polarity is observed (negative (-) to negative (-) and positive (+) to positive (+), when connecting a battery charger or jumper cable.

PRE-START INSPECTION AND PREPARATION

To prevent costly down time, the LeeBoy Model 8515C Conveyor Paver should be checked thoroughly before each use. Use the list below to assist in checking out the paver.

1. Inspect paver. Have any malfunctioning, broken or missing parts repaired or replaced before using, including:
 - Hydraulic hoses/fittings
 - Pumps
 - Motors
 - Electrical wires and connections
 - Steps and supports
2. Check engine oil (refer to current engine operator's manual), hydraulic oil, torque hub oil and diesel fuel.
3. Check the engine safety switch (the engine should only start when all joysticks FORWARD/REVERSE lever are in the NEUTRAL position (**Figure 6-1,1; Figure 6-2,1,2**).
4. Check all electrical functions before distributing asphalt.
5. Check burner ignition (see **Burner Ignition Procedure** in Section 6).
6. Ensure operator's area is free of debris.
7. Ensure that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the paver.
8. Read and follow all instruction and safety labels.
9. Ensure all covers and guards are in place.
10. Wear OSHA required safety equipment when running the paver.
11. Ensure paver is properly lubricated (see **Lubrication Chart** in Section 7).
12. Fill the fuel tank with the engine off.
 **Explosion Hazard! Never fill fuel tank near an open flame, when smoking, when the engine is running or when screed heat is on.**
13. Clear auger and conveyors before starting engine.
14. Spray cleaning solvent or release agent on any part of the paver that comes in contact with asphalt.


TIER 4 ENGINE OVERVIEW

This paver is equipped with a Kubota Tier 4i 87.5HP Engine. This engine has a Diesel Particulate Filter as an after-treatment device, a common rail system and cooled exhaust gas recirculation.

After-treatment device:

This engine uses a Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter as after-treatment devices.

The DPF is a device that physically captures Particulate Matter (PM) on the filters called "Wall Filtration System." In a process called "Regeneration," the accumulated PM is burnt off by the exhaust gas passing through the filters, which have high enough temperature to combust. However, if the temperature of exhaust gas is not adequately high, PM does not combust by itself, but is combusted using a heat source generated by DOC.

 **WARNING** This engine uses after-treatment devices. As such, Ultra Low Sulfur Diesel (ULSD) fuel and API CJ-4 engine oil is required to avoid damage and malfunction.

CRS (Common Rail system)

The common rail system brings precise injection control over the injection amount and intervals. As a result, the engine runs more smoothly with less fuel and so has lower operation cost.

Cooled EGR (Exhaust Gas recirculation):

The EGR system re-circulates a portion of exhaust gas back to the cylinder. The returned exhaust gas contains less oxygen, thereby lowering the combustion temperature and reducing nitrogen oxide (NOx).

Tampering:

This paver has a Certified Emission Engine Installation and therefore, contains several devices that allow it to meet the Federal Regulations 40CFR1068. As part of those regulations, modification to any emission related components or operation is subject to fine or penalty. Below are portions of the regulations that further define Tampering and Defeating Devices:

- Tampering. You may not remove or render inoperative any device or element of design installed on or in engines/equipment in compliance with the regulations prior to its sale and delivery to the ultimate purchaser. You also may not knowingly remove or render inoperative any such device or element of design after such sale and delivery to the ultimate purchaser. This includes, for example..., the use of incorrect fuel or engine oil that renders the emissions control system inoperative.... For a manufacturer or dealer, the EPA may assess a civil penalty up to \$37,500 for each engine or piece of equipment in violation. For anyone else, we may assess a civil penalty up to \$3,750 for each day an engine or piece of equipment is operated in violation....
- Defeat devices. You may not knowingly manufacture, sell, offer to sell, or install, any part that bypasses, impairs, defeats, or disables the control of emissions of any regulated pollutant, except as explicitly allowed by the standard-setting part. The EPA may assess a civil penalty up to \$3,750 for each part in violation.

Please be aware that you are responsible for maintaining the machine and the Certified Emission Engine Installation. Failure to comply could result in penalties as listed above and void the warranty on this engine and this paver.

CAUTION This engine installation complies with federal regulations. Tampering with any part of the engine system may violate federal or state law and may result in fines or other penalties.

STARTING THE ENGINE

Preliminary

1. Check fuel level, fuel lines, and tank for leaks.

WARNING Do not remove or tamper with fuel lines. The common rail system operates under high pressures.

2. Check oil level.

NOTICE Failure to maintain correct engine oil level is the greatest single cause of engine failures.

3. Check hydraulic oil level in hydraulic oil tank sight gauge.
4. Make sure all joysticks are in neutral position. (See paver manual for component locations.)
5. Refer to engine operator's manual for instructions when starting engine for the first time. Follow engine manufacturer's recommendations for fuel and oil.

Engine Start-up

NOTE: Steering Joysticks must be in neutral position to start engine.

1. Position Steering Joystick(s) to NEUTRAL
2. Insert key into the ignition switch on instrument panel and turn key clockwise (CW) to run position.

NOTE: During cold weather, the automated preheat cycle will begin when key is turned to run from the off position.

3. Wait for "Wait to Start" light to right of display panel to turn off then turn key to run position.

NOTICE Do not operate the starter longer than 10-15 seconds. If the engine does not start, allow the starter to cool 2-3 minutes.

NOTICE The use of starting additives, such as ether, is not recommended. Severe engine damage will occur.

4. When engine starts and is running smooth, use display to set desired throttle speed.

NOTE: Allow engine to warm up for several minutes before moving paver. The warm up will give the hydraulic oil time to warm, providing for more efficient operation. In cold weather let hydraulic oil warm to 50°F (10°C) or 60°F (16°C) before moving.

NOTE: For convenience, there is an extra key inside the switch box in case the original key is lost.

Stopping the Engine

1. Set Steering Joysticks to NEUTRAL.
2. Turn ignition key on instrument panel counterclockwise (CCW) to the OFF position and remove key.

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

GENERAL OPERATION

During normal operation, the engine monitors the amount of Particulate Matter (PM) that is building up in the after treatment devices. At some point the engine computer (ECU) determines that this soot must be burnt off. This is called the regeneration process. The ECU monitors operating conditions, and if conditions are present that allow for the regeneration to occur, it will begin that cleaning process without any intervention from the operator. The regeneration light will appear on the display, and the paver will continue to operate as normal. If conditions change or certain parameters that the ECU requires are no longer present it will stop the regeneration process. This will not harm the equipment and will not create the need for any intervention from the operator. As soon as conditions are right again, the ECU will start the regeneration process again. This will be the regeneration mode that happens most frequently for the machine and does not require the operator to change the method of operation.

LeeBoy has chosen to prevent the operator from inhibiting, or preventing this type of passive regeneration. Normal regeneration will happen in the background while the paver is being operated. This will provide limited interference to normal paver operations.

In extreme conditions, where this type of passive regeneration is never allowed to complete its cycle or particular paving operations are such that a passive regeneration is never accomplished, it may be necessary to perform a parked regeneration. In this case, the operator interface will display a warning that a parked regeneration is required. The operator may delay this parked regeneration for a short amount of time but must prepare to stop operation in a safe and controlled manner and perform this function. See "Regen" on page 4-18. This type of regeneration should seldom happen based on normal paving operations.

CONTROLS



Figure 4-1. 8515C Controls (See Figure 3-3 and Table 3-3 for Further Descriptions of Controls)

- 1 - Powerview™ Display – Displays important information about the paver and engine. Sets throttle points.
- 2 - Ignition Switch – Used with key to turn on and off paver.
- 3 - Preheat Light – If ambient temperature is low enough the preheat cycle will begin when ignition is set to run. Once cylinders are heated preheat light will turn off and the engine start up procedure can be resumed.
- 4 - Wait to Start Light – Illuminates during starting procedure. Starter will not engage until light turns off.
- 5 - Alternator Failure Light – Illuminates when no voltage is sensed from the alternator. Will light during startup prior to engine start.
- 6 - E-Stop – Emergency stop of all paver operation.

E-Stop Function

The function of the E-STOP is to shutdown the engine and therefore all tractor functions in an emergency situation. The E-STOP does this by shutting off the 12VDC supply to the engine ECM, it also shuts off the 12VDC supply to the Plus One Propel Controller.

If the E-STOP is employed during a Regen cycle, the cycle will be incomplete and the engine ECM will inform the operator that another Regen will be initiated upon engine restart.

It is important to note that a Park Regen takes from 30 minutes to an hour depending upon the condition of the filters.

During a Park Regen the Plus One Propel system is taken off line and the machine will not move, during an active Regen cycle the machine will continue to operate normally. Therefore it is important to plan for a Park Regen cycle, the engine temperature has to be at or above 160 degrees Fahrenheit and the engine idle will increase automatically.

POWerview™ DISPLAY

Gauge Screens

When turning the Ignition Key to the ON position, a sequence of screens will display on the controller. First you will see a notation in the upper left corner, “Booting...” next the Murphy logo displays, and lastly the gauge screen is displayed. The lit status icons at the top of the screen will disappear momentarily.



Figure 4-2. Gauge Screen

The gauge screen (Figure 4-2) displays five (5) dial gauges and three (3) digital gauge options

- 1 - Engine Speed/RPM
- 2 - Engine Coolant Temperature
- 3 - After Treatment 1 Diesel Particulate Filter Outlet Gas Temperature
- 4 - Electrical Potential Voltage
- 5 - Actual Engine Torque %
- 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 (Figure 4-3,1) to select set points while not in the menu. Select desired default throttle speed using buttons. The default speeds are: 1100 RPM, 1500 RPM, 1800 RPM, 2200 RPM and 2400 RPM, as shown in Figure 4-3.



Figure 4-3. Engine Throttle Speeds Screen

Use the second button (Figure 4-3,2), while not in the menu, to switch between “DPF Commands” and “Speed / Throttle” to change functions of buttons four and five (Figure 4-3,4,5).

With “Speed / Throttle”, use buttons four and five (Figure 4-3,4,5) to manually adjust the engine throttle.

NOTE: LeeBoy has set the generator for optimum performance at the 2400 RPM set point. It is recommended that when using the generator, use the 2400 RPM preset. The generator will continue to perform at other lower RPM levels, but not at peak levels.

DPF Commands

With “DPF commands” use button five (Figure 4-3,5) 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 4-1**) are associated with the throttle source. Some throttle sources may not be present on your model.

Table 4-1. 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 4-2**) are color-coded and light up when communicating to the operator. Pay close attention to any Status Icon and its color that may appear.

Table 4-2. 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	DPF - Diesel Particulate Filter
DM1 - Diagnostic Message 1, Active Diagnostic Trouble Codes	DTC - Diagnostic Trouble Code
DM2 - Diagnostic Message 2, Previously Active Diagnostic Trouble Codes	ECU - Engine Control Unit
DM3 - Diagnostic Message 3, Diagnostic Data Clear/Reset for Previously Active DTCs	FMI - Failure Mode Identifier
DM4 - Freeze Frame Parameters	PGN - Parameter Group Number
	SPN - Suspect Parameter Number

Main Menu

Press the Main Menu (☰) soft key to view the menu action items. 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 4-4. Main Menu Screen

Gauges

The Gauge Screen (Figure 4-5) 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 4-5. 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 4-6) displays the following items:

- Active Diagnostics
- Logged Diagnostics



Figure 4-6. Diagnostics Screen

Active Diagnostics

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Active Diagnostics. 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 4-7. Active Diagnostics Screen

Logged Diagnostics

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Logged Diagnostics. 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 4-8. 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. The screen displays the following items:

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



Figure 4-9. System Info Screen

Press the UP/DOWN soft keys to display a screen with application and configuration information.



Figure 4-10. 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.



Figure 4-11. High Exhaust Temperature Due to DPF Regeneration Symbol Screen



Figure 4-12. Needs Regenerating Screen




Figure 4-13. Machine Inhibiting DPF Regeneration Screen



Figure 4-14. 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. Set your preference for day or night vision by using the +/- soft keys.



Figure 4-15. Set Night Vision Color Preferences Screen

4



Figure 4-16. Set Day Vision Color Preferences Screen

Screen Brightness:

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



Figure 4-17. Set Brightness Of Backlight Screen

Language:

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

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



Figure 4-18. Set Language Preferences Screen

Units:

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

- USA Standard
- Metric kPa
- Metric Bar



Figure 4-19. Set Unit Preferences Screen

Date Setting:

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Date. 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.

Time Setting:

Use the UP/DOWN soft keys and stop the cursor (>) next to the action item Time. Press the select (○) soft key to initiate change to the hour value. Use the (+/-) soft keys to increment or decrement the number. Use the DOWN arrow to reach the minutes value and the +/- soft keys to make changes.

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

4



Figure 4-20. Time Setting Screen

Regen (FOR KUBOTA ENGINES ONLY)

Parked Ready Regen

Machine is in an operating condition such that the DPF can regenerate.

Table 4-3. 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 Caution—Example

The operator may experience a Regen Caution message popup on the controller screen (**Figure 4-21**). See (see “Messages, Cautions, Warnings” on page 4-21) for more examples.

The message explains the situation and may list instructions for the operator. Some messages require using the UP/DOWN soft keys to maneuver through the entire message (**Figure 4-22**).



Figure 4-21. Regen Caution Message Popup Screen Example

The message requires an active response by the operator so it is important that the operator reads the entire popup message.



Figure 4-22. Regen Caution Message Popup Screen Example Requiring Use of UP/DOWN Soft Keys



Figure 4-23. Parked Regeneration Instructions Screen

If the operator does not wish to complete a Parked Regeneration (**Figure 4-23**) at this time—click on the **X** soft key. This action Cancels Regen, removes the popup, and takes the operator back to the Gauge Screen.

If the operator would like to complete a Parked Regeneration—

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

1. DPF level must be at Level 2 or higher to perform Parked Regeneration
2. Move machine to an appropriate location.

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

3. Ensure the machine is in Park and Neutral. Ensure the coolant temperature is in operating range (Typically 155-160 F°) and set the engine to low Idle.
4. Once these conditions are met, a Blue Screen message will appear. (**Figure 4-24**).
5. Using the Up/Down Arrow, scroll down through the entire message and press the Request Regen Button.

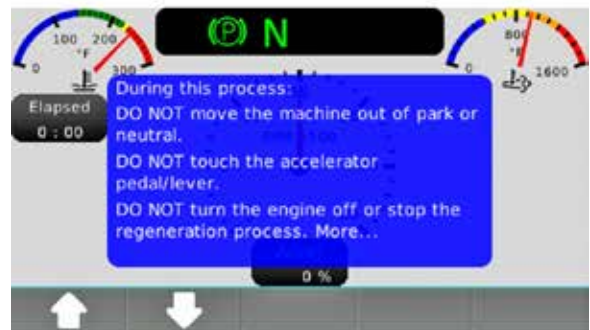
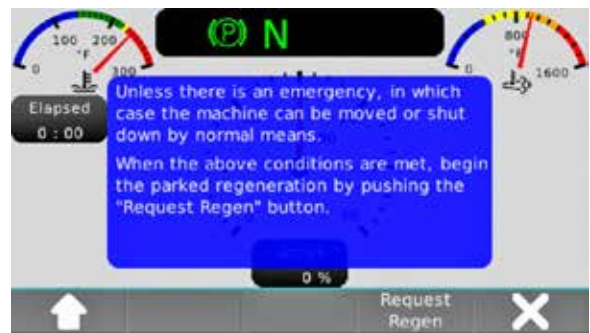


Figure 4-24. Parked Regeneration Message Screens

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.

6. During the regeneration, the Engine Speed will increase and there may be a noticeable sound difference. The HEST Lamp will appear during the process.

Operation


Once the Parked Regen has started, it can be shut down by pressing the Stop Regen  soft key (**Figure 4-25**). However, do not shut down unless it is absolutely necessary.



Figure 4-25. Stop Regen Screen

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


7. Parked Regeneration is complete when the controller screen shows the following green popup message. Click on the  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 4-26. Parked Regeneration Green Popup Message Screen

Quick Tips:

1. **Avoid running at low idle for long periods of time.**
2. **Consult operating manual for maintenance and service.**
3. **Never tamper with fuel system without consulting manual.**
4. **Never tamper with or remove emission related components under penalty of law.**
5. **Engine is equipped with a high pressure common rail fuel system. Serious injury can result if fuel lines are disconnected from the fuel pump, fuel sensors, or injectors.**
6. **Always check Coolant and Oil Level prior to operation.**

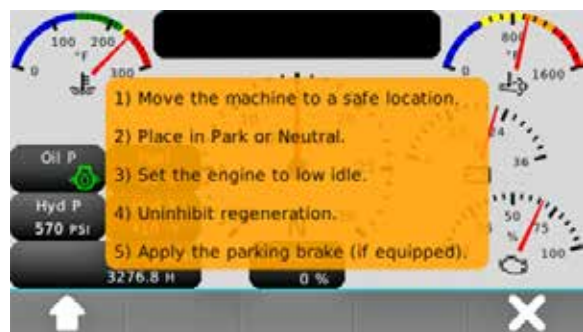
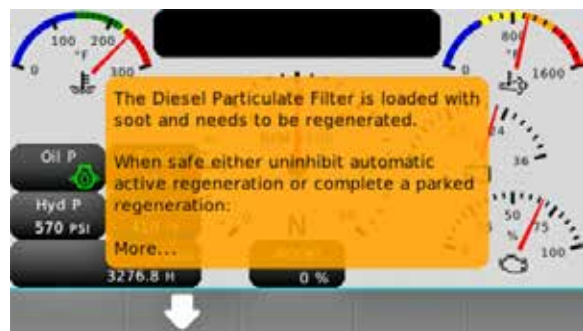
Messages, Cautions, Warnings

Please pay attention to all messages (Figure 4-27) on the controller for the safety of personnel and to prevent engine and property damage if DPF regeneration is needed.

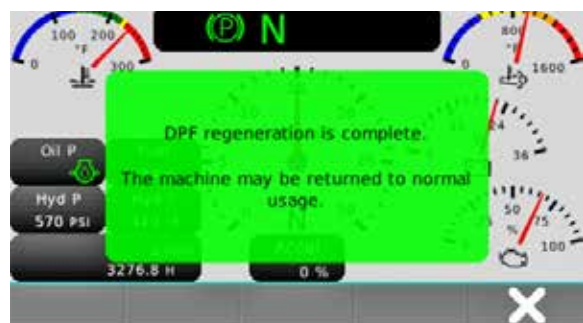
Regen Level 1



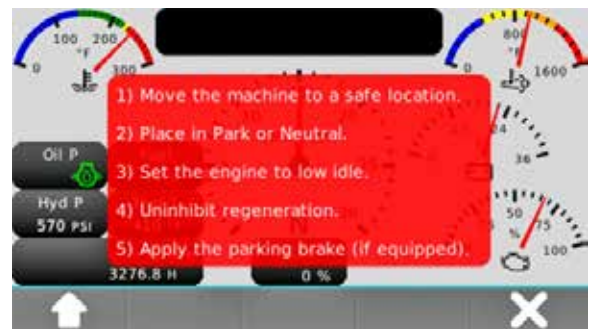
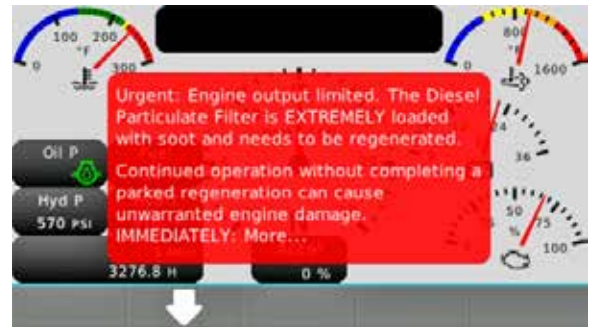
Regen Level 2



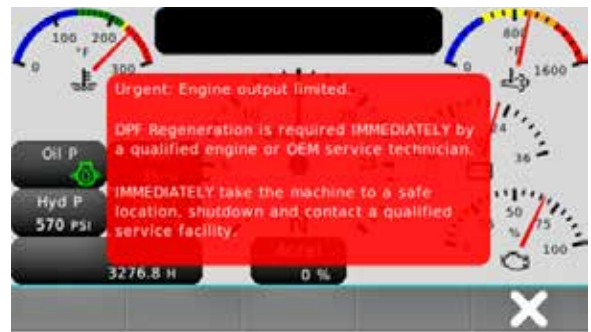
Regen Complete



Regen Level 3



Regen Level 4



Regen Level 5

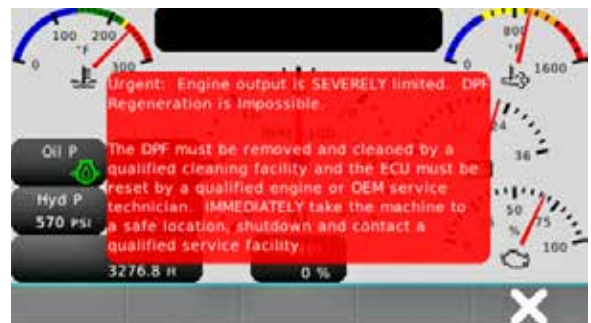


Figure 4-27. Controller Messages, Cautions and Warnings

PAVER DRIVING INSTRUCTIONS

WARNING Rapid counter-rotation in either direction, clockwise (CW) or counterclockwise (CCW) could result in operator being thrown from machine resulting in personal injury or death. Counter-rotation is defined as either one joystick in extreme forward position and opposite joystick in extreme rear position, or steering wheel is in extreme right or left turn position while machine is in gear and moving forward or reverse. Make only slow adjustments to joysticks or steering wheel to turn machine.

Electronic Control Steering Box

NOTE: You can only use one steering control module at a time. When steering paver with control module the Run/Stop Switch (Figure 4-28,4 and Figure 4-29,3) must be in RUN position on the module in use and STOP position on the other module not in use.

NOTE: To slow the unit, move Forward/Reverse Steering Joystick closer to NEUTRAL or from NEUTRAL to STOP.

NOTE: To stop paver, pull Forward/Reverse Steering Joystick back to the neutral position or use RUN/STOP Switch on active console. When RUN/STOP Switch is set to RUN, paver resumes prior speed.

Steering Wheel Option

To drive the paver, point the Steering Wheel (Figure 4-28,2) straight ahead and lift up on the Neutral Lock (Figure 4-28,3) on Forward/Reverse Steering Joystick (Figure 4-28,1). Push the Forward/Reverse Steering Joystick (lever) forward slowly to reach the desired speed and turn the Steering Wheel (Figure 4-28,2) slowly to make turns as desired. The more you move the Forward/Reverse Steering Joystick the faster the travel speed.

1. After the paver has been started and the engine is warmed up, paver movements may be made.

WARNING Before starting forward with paver make certain that no one is in front of the paver.

2. To drive paver forward lift up on the Neutral Lock (Figure 4-28,3) on Forward/Reverse Steering Joystick (Figure 4-28,1) and push forward to reach desired speed. To move in reverse pull the Forward/Reverse Steering Joystick backward to reach desired speed.

3. Place Forward/Reverse Steering Joystick in neutral to stop paver.
4. To steer the unit, turn the Steering Wheel (Figure 4-28,2) in the travel direction desired. The further the wheel is turned, the more the paver turns. Slow and easy adjustments are required.

NOTICE Turning the Steering Wheel too hard can damage the control.

NOTE: All the way left or right will give you counter rotate.



Figure 4-28. Steering Wheel Option

- 1 - Forward/Reverse Steering Joystick
- 2 - Steering Wheel
- 3 - Neutral Lock
- 4 - Run/Stop Switch

WARNING Rapid paver deceleration will occur when E-STOP button or RUN/STOP switch is engaged when traveling at high speeds. Operators may be thrown from the paver causing personal injury.

5. The Run/Stop Switch (Figure 4-28,4) on steering box will stop paver when set to the STOP position. When the paver is stopped with the toggle switch, the paver will resume travel at the last speed of travel when the switch is set to the RUN position

Dual Joystick Option

To drive the paver, push both Forward/Reverse Steering Joysticks (Figure 4-29,1,2) forward slowly to reach the desired speed. The more you move the Forward/Reverse Steering Joysticks, the faster the travel speed.

1. After the paver has been started and the engine is warmed up, paver movements may be made.

WARNING Before starting forward with paver make certain that no one is in front of the paver.

- To drive paver forward, tilt both Forward/Reverse Steering Joysticks (**Figure 4-29,1,2**) forward to reach desired speed. To move in reverse, pull the Forward/Reverse Steering Joysticks backward to reach desired speed.
- Place Forward/Reverse Steering Joysticks in NEUTRAL to stop paver.
- To steer the unit to the left, push the Right Forward/Reverse Steering Joystick (**Figure 4-29,2**) farther forward than the Left Forward/Reverse Steering Joystick. The farther the Forward/Reverse Steering Joystick is pushed, the more the paver turns. Slow and easy adjustments are required.



Figure 4-29. Dual Joystick Option

- 1 - Left Forward/Reverse Steering Joystick**
- 2 - Right Forward/Reverse Steering Joystick**
- 3 - Run/Stop Switch**

- To steer the unit to the right, push the Left Forward/Reverse Steering Joystick (**Figure 4-29,1**) farther forward than the Right Forward/Reverse Steering Joystick. The farther the Forward/Reverse Steering Joystick is pushed, the more the paver turns.

PAVER OPERATION

- Follow start-up procedures (see “Starting the Engine” on page 4-5).
- Position paver to start of mat.
- Open cutoff gates under auger.
- Adjust screed as needed (see “Setting Screed To Pave” on page 4-30).

- When material starts to discharge from under screed, the Screed Lift Raise/Float Switches on the dash should be set to the FLOAT position. Run from one side only. Either the left operator’s side (**Figure 3-4,17**) or the right operator’s side (**Figure 3-2,17**).
- Open hopper wings into working position. When first starting to pave allow only a partial load of asphalt to enter the hopper.

NOTICE Never fold hopper wings fully in when hopper is full of asphalt.

- Set the Left Conveyor and Right Conveyor Automatic/Manual Switches to the AUTOMATIC position and convey material back to screed. Run from one side only. Either the left operator’s side (**Figure 3-4,6,7**) or the right operator’s side (**Figure 3-2,6,7**).

NOTE: Augers are not needed when paving a basic 8 foot pull.

- Start paving. Move slowly at first so adjustments can be made to screed.

CAUTION Never backup with cutoff gates open. Cutoff gates are designed to break away from cylinders when hitting a manhole or other hard object. This only occurs going forward not in reverse.

- To prevent excessive handwork, about 2 to 3 ft. (0.6 to 0.9 m) from end of pull, set the Left Conveyor and Right Conveyor Automatic/Manual Switches to the OFF position (either the left operator’s side (**Figure 3-4,6,7**) or the right operator’s side (**Figure 3-2,6,7**) and set Left Cutoff and Right Cutoff Switches to the CLOSE position (either the left operator’s side (**Figure 3-4,8,10**) or the right operator’s side (**Figure 3-2,8,10**)). Return paver back to starting position to begin next pull. Position and set screed endgate on joint side back to 0 ft. or flush with bottom of main screed. Repeat process as done in first pull.
- The paver can operate using one side only. However, material from opposite side cannot be augered to the working side. The auger center cover prevents this. It is possible to leave both cutoffs shut and open the endgates on screed. This method is generally used in doing potholes and patching.

Conveyor Operation

The conveyor is a very important part of the paver and for this reason close attention should be given on integrating its operation into the total operation of the paver. Use the following procedure for operating the conveyor.

CAUTION Never use cylinder pressure to lower hopper wings into place after lowering conveyor. This may bend hopper wings or break the chains on the hopper wings.

WARNING Never work on paver with engine running.

1. Before raising or lowering conveyor, unbolt hinges and fold side wings in and out by hand. The side wings have a double action motion causing the in and out movement.

NOTE: The engine must be shut off when lowering the conveyor.

2. When lowering conveyor, do not lower under pressure. Let the conveyor down with engine shut off by placing the Conveyor Raise/Lower Switch in the LOWER (down) position with key switch on. Either the left operator's side (**Figure 3-4,6,7**) or the right operator's side (**Figure 3-2,6,7**).

CAUTION Do not let the paver sit running with conveyors in automatic for any length of time. This may cause the hydraulic oil to over heat.

3. Spray the conveyor drive chains periodically. Spray several times a day with cleaning solvent or release agent.
4. When conveyors are running and cutoff gates are shut, there will be spillage the full width of the paver. This is normal. To help prevent this spillage, work conveyors manually when loading hopper and not paving.
5. Irregular movement of the conveyor indicates that a problem may exist with the conveyor chain. To eliminate this problem an adjustment to the conveyor chain may be necessary (see "Conveyor Flight Chain Adjustment" on page 5-13).

NOTE: Check adjustments every 100 hours.

CAUTION Never work on conveyors with engine running.

NOTICE Never raise conveyor with asphalt in the hopper.

WARNING Crush Hazard! Never work under conveyor without making sure that conveyor is being supported by safety prop and that all unauthorized personnel are clear of the area.

NOTICE Never let paver sit while conveyors are turning. If paver sits long enough, asphalt from conveyors can fill tracks and cause failure to the bearing or idler.

NOTICE To prevent flight chains from sticking inside of conveyor pans, lubricate them sufficiently at the end of the day.

Hydraulic Cutoff Gates Operation

The cutoff gates are one of the most important functions of the paver, when used properly. Cutoffs are used primarily to control the flow of asphalt to the screed. Cutoffs can be used when making narrow passes, at the beginning and ending of each pass or pull.

NOTE: The cutoffs have been designed to break away if you accidentally hit a manhole or ridge. This feature will prevent excessive damage to cutoff (tack underneath will break).

CAUTION Never backup with cutoff gates open. Cutoff gates are designed to break away from cylinders when hitting a manhole or other hard object. This only occurs going forward not in reverse.

NOTE: The Right Cutoff Open/Close Switch and the Left Cutoff Open/Close Switch control the right and left cutoffs.

Moving the Cutoff Open/Close Switches to the OPEN positions increases asphalt flow to the screed. Moving the Cutoff Open/Close Switches to the CLOSE positions decreases asphalt flow to the screed. CUTOFF switches are spring-loaded and return to the "neutral" center position.

Sonic Augers Operation

The sonic augers are most often used when paving 9 or 10 ft. (2.7 or 3 meters) where augers are capable of running material over top of endgates, causing extra handwork. The sonic auger gauges the amount of material that is in the extensions.

CAUTION Never run augers when paving 8 ft. (2.4 m) wide.

NOTE: An operator can operate the auger from either side standing on or sitting in the low deck position.

1. Set the Left Auger and Right Auger Switches (**Figure 3-4,4,5**) on the left side dash to the AUTOMATIC position.
2. Set the Left Auger And Right Auger Switches (**Figure 3-2,4,5**) on the right side dash to the SLAVE position.
3. Set the Left Auger On/Off Switch and the Right Auger On/Off Switch, located on the screed, to the ON position (**Figure 3-12,5,6**).

NOTE: The Sonic Auger Adjustment Dial adjusts the amount of material needed in AUTOMATIC setting only.

4. Adjust height of material at endgate with the Sonic Auger Height Adjustment Dial (**Figure 4-30 ,1**). Turn the dial to keep the extension full. Be careful not to over run the extension with the material.

NOTE: When running material through augers manually, try to pave so material flow to extension is adequate and maintained.

NOTICE To prevent hydraulic oil from overheating, turn conveyor and augers OFF while waiting on material or hand work.

5. When paver stops, set the Left Auger and Right Auger Switches on the right- and left-side dashes (**Figure 3-4,4,5**) and (**Figure 3-2,4,5**) to the OFF (center) position.



Figure 4-30. Sonic Auger Height Adjustment Dial

1 - Adjustment Dial

Auger Extensions

The auger extensions should be attached to the main auger to increase the flow of asphalt. This makes it possible to lay asphalt at a higher rate. To attach the auger extensions proceed as follows:

NOTE: The left and right auger extensions must be installed on the correct side of the paver.

1. Identify the right and left auger extensions by observing the L (left) or R (right) on the end of the auger extension shaft.
2. After identifying the right and left auger extensions, extend the screed extension fully as follows:
 - a. On the screed operator control boxes, set the Left Auger On/Off Switch (**Figure 3-12,6**) and the Right Auger On/Off Switch (**Figure 3-12,5**) to the OFF position.
 - b. On the screed operator control boxes, set the Left Extension Switch (**Figure 3-12,2**) and the Right Extension Switch (**Figure 3-12,1**) to the OUT position and extend fully.

WARNING Engine must be shut off to prevent possible injury when attaching extensions.

3. Shut off engine.
4. Remove bolt, nut cap on end of main auger.
5. Attach the correct side auger extension to the main auger with hardware just removed.
6. Repeat this procedure for the opposite side.

4

Electric Flight Screws Operation

The electric flight screw is an added convenience to the operator. A gauge is located on both sides of the paver. These gauges will provide the operator with quick reference to the location of the electric screw. Refer to **(Figure 4-31)** and use the following procedures:

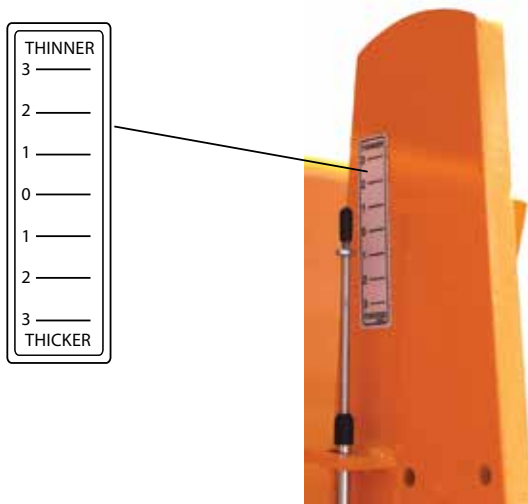
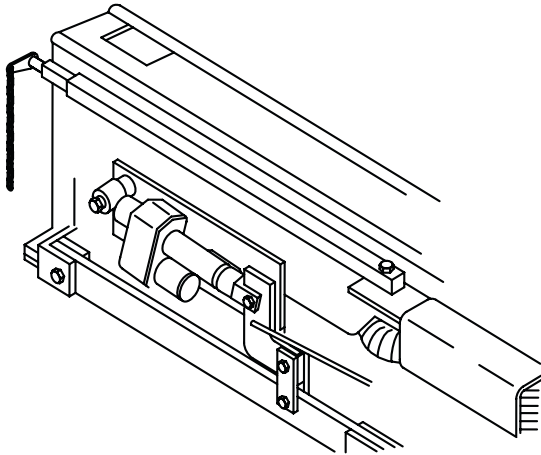


Figure 4-31. Flight Screws And Screed Height Gauges

1. Before paving, center the electric flight screws by referring 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.

NOTE: The Left and Right Forward/Reverse Steering Joysticks must be in forward to operate electric flight screws in the SLOPE position on left side, but will work at anytime in the MANUAL position.

Spray Down

Always spray down the LeeBoy Model 8515C Conveyor Paver before using.

The spray down on your paver is used to spray cleaning solvent or release agent on any part of the paver that comes in contact with the asphalt. Buildup of asphalt will cause damage to components. Spray all areas of the paver that have direct contact with asphalt.

WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or source of ignition. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTE: When using spray down, consider the environment and do not allow cleaning solvent to run onto the ground.

1. Pull out the amount of hose needed and set Spray Down Switch **(Figure 3-3,9)** to SPRAY DOWN (up) position. Squeeze the wand handle **(Figure 4-32,1)** and spray. Release wand handle when done spraying.
2. After spraying, set the Spray Down Switch **(Figure 3-3,9)** to the OFF (down) position and let the hose wind back up.

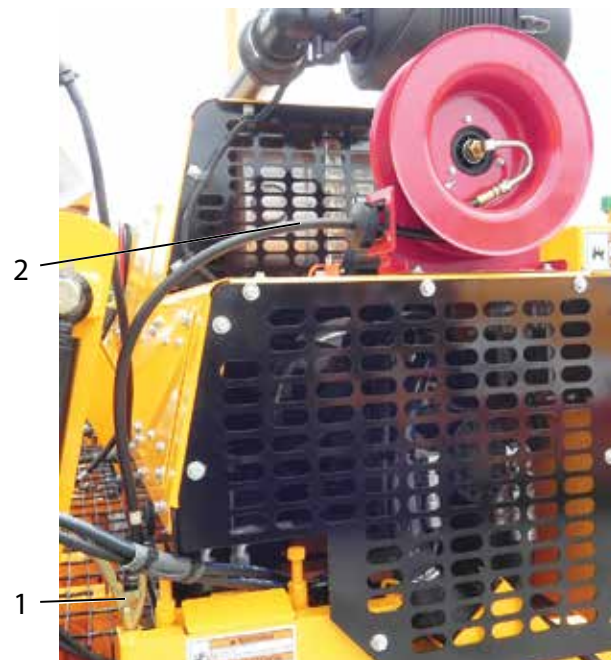


Figure 4-32. Spray Down System

- 1 - Spray Down Wand Handle
- 2 - Spray Down Hose

Burner Ignition Procedure

WARNING Propane gas used to heat the screed is volatile and combustible. Use extreme care and follow the instructions.

NOTE: Heating the screed helps prevent hot mix from sticking to the cold screed plate and produces a smooth, tight mat surface. Heating should not only be performed at the beginning of the job, but also if the paver is idle for a long time between loads (allowing screed plate to cool).

The following procedure will provide the necessary steps in manually lighting the burners. It is important to remember that propane is a volatile and combustible gas and for this reason safety should be a major consideration. When treated with respect the propane will not present a problem. Follow the procedures below and refer to **Figure 4-33**, **Figure 4-34**, and **Figure 4-35** as required.

1. CLOSE all burners' valves at center of screed (**Figure 4-34,1,2,3**) and on both right and left extensions (**Figure 4-35,1**) by turning valves clockwise (CW).
2. Turn Propane Tank Open/Close Valve (**Figure 4-33,3**) counterclockwise (CCW) to OPEN position and adjust Propane Pressure Regulator Valve (**Figure 4-33,1**) IN or OUT until Propane Pressure Regulator Gauge (**Figure 4-33,2**) reads 15 lbs. (1 bar).



Figure 4-33. Propane Tank With Regulator

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

3. Light Burner Ignitor (**Figure 4-34,4**) while turning Burner Ignitor Valve (**Figure 4-34,3**) counterclockwise (CCW) to the OPEN position.

NOTE: Use Burner Ignitor (**Figure 4-34,4**) to light main burners manually.

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

4. Direct ignitor flame into area of Main Burners (**Figure 4-34,5**) and turn Burner Valve counterclockwise (CCW) to the OPEN position.

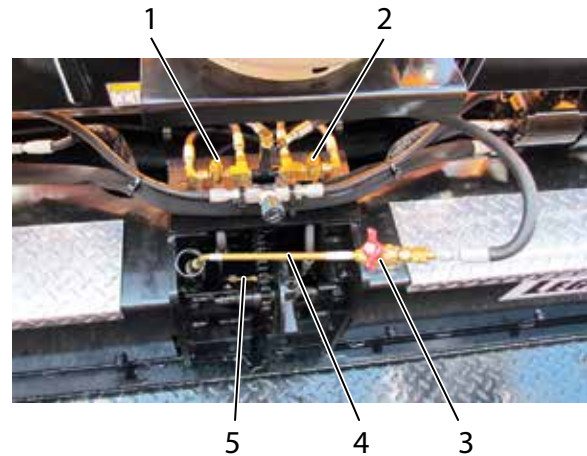


Figure 4-34. Burner Valves

- 1-2 - Burner Valves
- 3 - Burner Ignitor Valve
- 4 - Burner Ignitor
- 5 - Area of Main Burners

5. Repeat procedure in Step 4 for opposite side.

6. The extension burners are held in position to the screed with a quick coupling connection. To ignite extension burner, remove the Extension Burner Ignitor (**Figure 4-35,3**) from Coupling Connector (**Figure 4-35,2**) turn Extension Burner Valve (**Figure 4-35,1**) counterclockwise (CCW) to OPEN position and light.
7. Once lit, reattach the Extension Burner Ignitor (**Figure 4-35,3**) to the Extension Coupling Connector (**Figure 4-35,2**).
8. Repeat procedures in Steps 6 and 7 to ignite extension burner on opposite side.

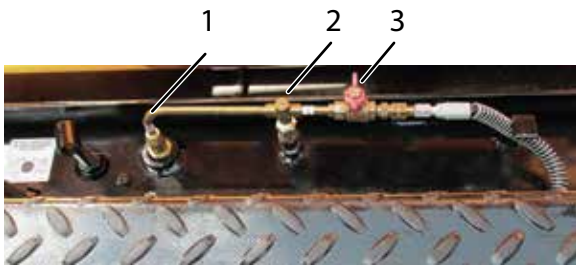


Figure 4-35. Extension Burner Valve

- 1 - Extension Burner Valve
- 2 - Extension Coupling Connector
- 3 - Extension Burner Ignitor

To extinguish the burners:

1. After screed has heated for about fifteen (15) minutes, turn Propane Tank Open/Close Valve (**Figure 4-33,3**) clockwise (CW) to the CLOSE position.
2. Once flame goes out completely, close all Burner Valves at center of screed (**Figure 4-34,1,2,3**) and on both right and left extensions (**Figure 4-35,1**) by turning Burner Valves clockwise (CW) to the CLOSE position.

NOTE: If paving on a cool windy day, it may be necessary to maintain low heat on the screed. To accomplish this, reduce the pressure on the propane tank from 15 lbs. (1 bar) to 2 lbs. (0.14 bar). by adjusting the Propane Pressure Regulator Valve (**Figure 4-33,1**) IN or OUT until Propane Pressure Regulator Gauge (**Figure 4-33,2**) reads 2 lbs. (0.14 bar). This will provide a low even heat that will not harm the screed. Do not attempt to regulate the burner with the burner valve.

NOTICE High temperatures for extended periods can warp the screed plate, cause extensions to lock up, and create mat texture problems. A warped screed plate should be replaced.

NOTICE If extension lock up occurs, let unit cool before forcing in or out.

Electric Heating Controls

LeeBoy Model Legend Electric Screed System is easy to operate, and requires little maintenance. The system consists of a hydraulically driven generator mounted in the paver, which feeds power to a distribution/control box mounted on the screed. This box is mounted near the middle of the screed and is easily accessible to the screed operator when a heating cycle is required.

The control box is where you will select the heating function before you begin to pave (**Figure 4-36**).

1. Start the paver and bring the engine to normal operating temperature.
2. Set the throttle on the paver to normal operating speed (approximately 1800 to 2200 RPM).

NOTE: Throttle positions of one half to less than full will still produce screed heat, but at a reduced rate and temperature. Do not run paver at less than half throttle while using electric screed heat.

NOTE: Screed will heat most quickly with engine at full throttle (approximately 2400 RPM).

3. Flip the Power Switch (**Figure 4-36,1**) up to the ON position.

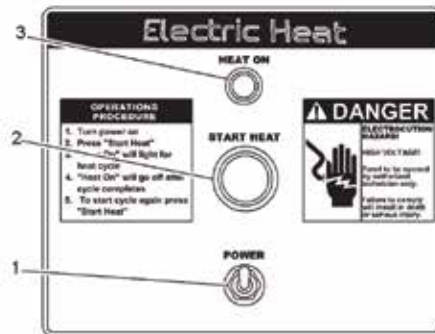


Figure 4-36. Electric Heat Control Box

- 1 - Power Switch
- 2 - Start Heat Button
- 3 - Heat On Indicator Light

4. Press the Start Heat (**Figure 4-36,2**) Button.

NOTE: There is a five second delay after the heat cycle is initiated before the actual electric load is sent to the heating elements from the generator. This delay is to allow the generator to reach optimal operating speed before the electrical load is required.

- The heating cycle will begin and the Heat On Indicator Light (**Figure 4-36,3**) will illuminate.

NOTE: The Heat On Indicator Light (**Figure 4-36,3**) will stay on as long as the elements are heating the screed plates. Once the heating cycle is complete, the Heat On Indicator Light will go out.

- If the heat cycle has completed and the screed plates still require a higher temperature, restart the system by pressing the Start Heat (**Figure 4-36,2**) Button again. The system will run for the set time once more.

NOTE: If the heat system is running, and the operator presses the Start Heat (**Figure 4-36,2**) Button during a heating cycle, the heat will continue to operate normally, and the time cycle will re-set to beginning of the cycle. This will not hurt the system, and may be useful on cooler days to make the screed heat system run longer than normal without stopping.

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: The factory time setting for the heating cycle is 30 minutes. This will be sufficient in most circumstances to generate enough heat to begin the paving process.

NOTE: The temperature that the screed plates reach will depend in part on the outside ambient temperature.

NOTICE Do not run heating elements and auxiliary operations, such as augers, at the same time for extended periods over 1/2 hour. Generator and heating element damage will occur.

To help the screed heating system operate most efficiently:

- Ensure that engine RPM is at normal operating speed (approximately 1800 to 2200 RPM).
- Raise screed plate approximately 1 to 2 inches off the ground when just heating screed at start of project.
- Do not raise screed fully, allowing more wind under the screed plate while heating. This will slow down heating process.
- Set the screed directly on a fresh mat of hot asphalt while running the heating system, allowing the heat of the asphalt to help heat the screed plate.

STARTING TO PAVE

The paver is capable of placing bituminous base, binder and surface courses, lime or Portland cement stabilized sub-base and graded aggregate materials up to a thickness of 6 in. (20 cm).

This paver has a production rate of approximately 250 tons per hour.

This paver is equipped with electric and manual thickness controls and an 8 ft. to 15 ft. (2.8 m to 4.5 m) wide screed. The paver can handle everything from driveways and small parking lots to large parking areas and secondary roads.

Before starting to pave, keep the following points in mind:

- Plan the project so that the narrowest passes are first, (the basic width of the paver) leaving the widest pass until last.
- Make sure to use a reference guideline. This can be a curb, gutter, adjacent mat or a string line. It is important that the first pass be straight. It will be the guideline for the following passes. Use the guide bar gauges as shown in **Figure 4-37**.

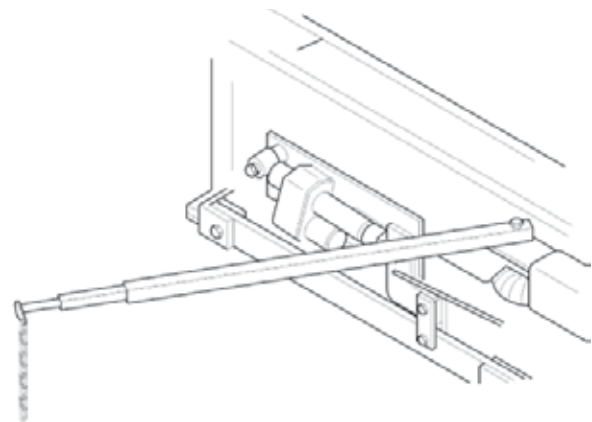


Figure 4-37. Guide Bar Gauges

NOTICE Never run the paver through a pile of mix that has been dumped in front of the machine. Not only will this effect the level of the mat being laid but damage may result.

- It is the operator's job to guide the truck up to the paver and signal the driver when and how much to dump into the hopper. Truck drivers must maintain a light pressure on his brakes to keep truck from dumping material on the roadway.

NOTE: If the paver is equipped with a truck hitch, the truck driver will not be required to maintain pressure on the brake (**see "Truck Hitch Attachment (Option)" on page 4-39**).

4. Always pave in low range.

WARNING Before starting forward with paver make certain that no one is in front of the paver.

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

Setting Screed To Pave

1. Move to the starting position.
2. Extend the screed to the desired width.
3. To set depth, place screed on starter blocks (Figure 4-38).

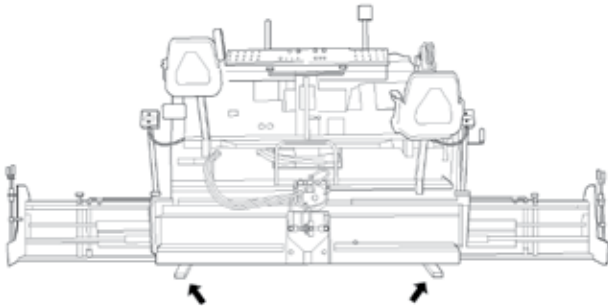


Figure 4-38. Starter Blocks

4. Level the screed with the flight screws (Figure 3-7,3, Figure 3-8,3) until neutral position is felt.

NOTE: Neutral position is when the pressure on the flight screw is the same when screwing either clockwise (CW) or counterclockwise (CCW).

5. Turn the flight screws (Figure 3-7,3, Figure 3-8,3) about one complete turn clockwise (CW).

Setting Crown or Valley

NOTE: The screed plate is a one-piece unit that is flexed to provide the required crown setting.

1. Loosen lock down bolts (Figure 4-39,1,2) in slotted bars before adjusting crown and valley mechanism.
2. Remove crown handle and insert into adjuster (Figure 4-40,2).
3. For increased positive crown push down on adjuster.

4. For increased negative crown pull up on adjuster.
5. Use the gauge (Figure 4-40,3) located at the center of the screed above the standing platform. When rod is flush with tube end, screed should be flat. When rod is past flush, you will have negative crown. When rod is short of flush, you will have positive crown.

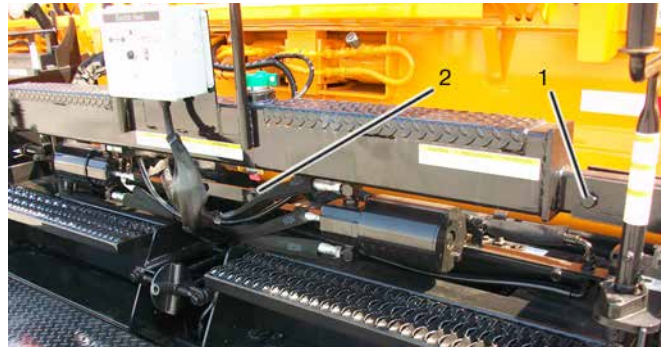


Figure 4-39. Lock Down Bolts

1 - Cross Tube Bolt

2 - Center Link Bolt

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.

NOTE: Maximum crown is 2 in.

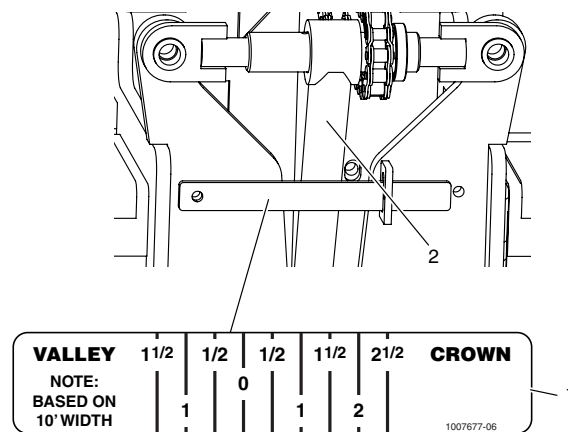


Figure 4-40. Crown Adjustment Location

1 - Gauge

2 - Adjuster

NOTE: Positive crown is when the middle of the mat is raised to permit water to drain to each side. Negative crown is the lowering of the center of the screed plate. Negative crown might be used in an alley where drainage down the center of the alley is necessary (Figure 4-40).

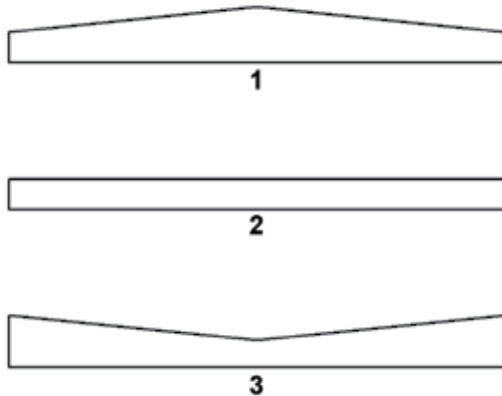


Figure 4-41. Crown Settings

- 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: trailing edge crown is 0, leading edge crown is 1/8 in. With this setup, there will not be any crown placed in the mat laid by the LeeBoy Model Paver; however, material flow under the screed plate will be improved.

NOTE: Trailing edge crown is set at 0 when shipped from the factory. The chain connecting the leading and trailing edge crown control assures that the relationship of the edges remains constant as the trailing edge is changed to meet job conditions.

Power Crown (Option)

1. Move selector valve (Figure 4-42,1) to the POWER CROWN position.
2. Move Right Extension In/Out Switch (Figure 3-12,1) to the OUT position to increase the positive crown setting.

3. Move Right Extension In/Out Switch (Figure 3-12,1) to the IN position to increase the negative crown setting.

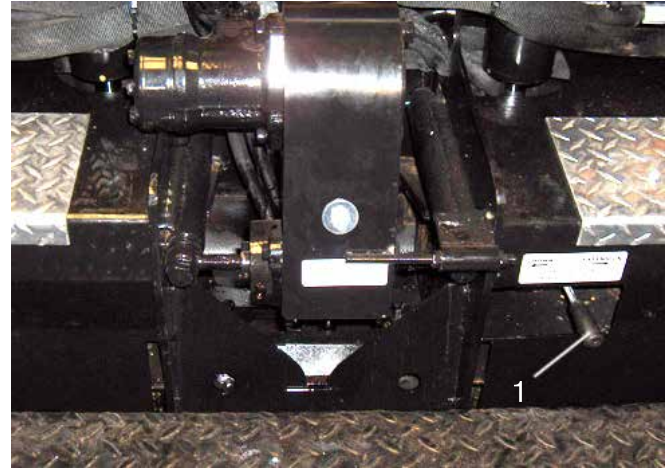


Figure 4-42. Power Crown Assembly

1 - Selector Valve

Setting Screed Endgates

1. On the first pass, turn the endgate depth screw (Figure 4-43,1) to lower the endgate until it is about 0.25 in. (6.35 mm) below the screed.

NOTE: Most operators run endgates within 0.25 in. (6.35 mm) of flush.

2. Turn the tilt screw (Figure 4-43,2) on the endgate so the front of the endgate tilts down slightly when the screed is lifted. This will allow the endgate to set itself to grade.

NOTE: When paving, never let the endgate carry the weight of the screed. This will cause screed compaction to vary.

3. During operation, if the endgate starts to dig in at front, adjust the tilt screw so the endgate tilts back.
4. 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 cleaning solvent on runners (Figure 4-43,4).

WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

5. On the first pass, leave about 6 - 8 in. (15 - 20 cm) of unrolled asphalt where the joint is being made.
6. In laying a joint, if the joint looks too high or too low, adjust the flight screw (**Figure 4-43,5**) on the screed about one (1) turn at a time and allow 4 - 5 ft. (1.2 - 1.4 m) of travel to correct itself.

NOTE: Too much adjustment up or down may cause rising and falling effect in the paved material.

7. If making a cold joint, set endgate down about 1/4 in. (6.35 mm); this will give a nice, even edge.



Figure 4-43. Endgate

- 1 - Depth Screw
- 2 - Tilt Screw
- 3 - Depth Gauge
- 4 - Runner
- 5 - Flight Screw

Setting Screed Extensions

NOTE: Used when paving over 8 ft. (2.4 m).

The screed extensions should be heated with initial heating cycle before making adjustments. Use the wrench provided to make adjustments. If correct adjustment is made, the pressure on the rear edge of extended screed is the same as on the rear edge of main screed. The result of making this adjustment will be a smooth mat the length of the screed.

NOTE: Make adjustments only while paving.

1. Heat the screed extension before making adjustment to extended width.
2. Adjust tilt on the rear edge of the extension by turning Angle of Attack (AOA) Adjuster (**Figure 4-44,1 and Figure 4-45,2**) counterclockwise (CCW). This is done to give the same amount of compaction and slickness on the extension and main screed.
3. If drag occurs in center of the screed, then too much pressure is on the screed extension and the extension is carrying all the weight. Correct this by turning the Angle of Attack (AOA) Adjuster clockwise (CW) until both the screed and the screed extension produce the same mat texture.

Mat Texture Adjustment

The screed should be hot before making any adjustments. The screed can be adjusted for a smoother or coarser mat texture by using the mat texture adjusters (**Figure 4-44,1; Figure 4-45,1,2**). Make sure the bottom of the screed is sprayed down before making any texture adjustments (**see "Spray Down" on page 4-26**).

WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

NOTE: When using spray down, consider the environment and do not allow cleaning solvent to run onto the ground.

Screed extension single adjustment:

1. Locate Angle of Attack (AOA) Adjuster near the middle of the extension (**Figure 4-44,1**).



Figure 4-44. Mat Texture Single Adjusters

1 - Angle of Attack (AOA) Adjuster

2. Turning the AOA adjuster (**Figure 4-44,1**) counterclockwise (CCW) will increase the pressure on the back of the extension. Turning the adjuster clockwise (CW) will decrease the pressure on the back of the extension.

NOTE: Increasing the pressure on the back of the extension will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish. Putting too much pressure on the back of the extension will take the weight off of the screed wearplate and will cause poor material compacting, resulting in a poor finish in the middle of the main screed.

Screed extension double adjustment (815HD Option):

1. Spray down the screed and then heat up the screed.
2. There are three adjusters in each extension. The two covered adjusters at each end of the screed extensions are for vertical adjustment.

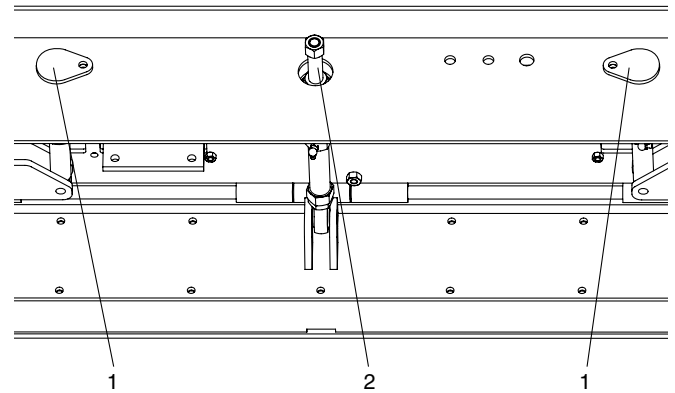


Figure 4-45. 815HD Mat Texture Double Adjusters

1 - Vertical Adjuster

2 - Angle of Attack (AOA) Adjuster

3. Turning the adjusters clockwise will increase the pressure on the back of the extension. Turning the adjusters counterclockwise will decrease the pressure on the back of the extension.

NOTE: Increasing the pressure on the back of the extension will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish. Putting too much pressure on the back of the extension will take the weight off of the screed wearplate and will cause poor material compacting, resulting in a poor finish in the middle of the main screed.

NOTE: Vertical Adjusters are preset by dealer and should not need adjustment.

UNLOADING AND LOADING

The following procedure applies to loading and unloading the machine when there is a large height difference between the loading and unloading surfaces and is intended to avoid damage to the screed. In locations where there is no height difference and there is no risk of screed damage from striking the ramp, then the machine may be loaded or unloaded facing either direction.

Trailers used to haul the paver should have ample capacity to carry the weight of the paver. Place the trailer in a clear, level area for loading or unloading.

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

Unloading

1. Remove tie down equipment.
2. Start and warm up engine.
3. Set throttle at 1/2 operating RPM. Set steering control lever so paver moves very slowly.
4. Make sure:
 - a. Screed position - UP
 - b. Auger extensions removed
 - c. Extendible screed - IN
 - d. Gates below augers - CLOSED

NOTICE Never back up with cutoff gates open.

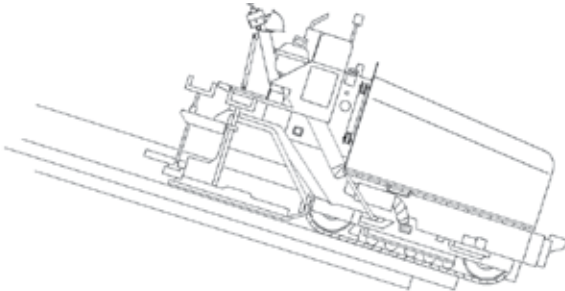


Figure 4-46. Correct Unloading

NOTE: A man should always be on the ground to assist the operator in the unloading procedure.

WARNING Make sure engine is operating at a high enough RPM so that the hydraulic pump is providing sufficient flow to operate all functions properly.

CAUTION Do not let the screed strike the ramp when moving off the ramp. This can break the bearings on the thickness control screws or welds on the leveling arms. A longer ramp or blocks may be necessary to reduce the loading angle.

NOTE: If you have a problem unloading the paver - STOP - LOOK - THINK.

5. Move paver forward down the ramp as shown (Figure 4-46).

Loading

CAUTION Paver must be loaded screed end first to prevent damage. If the paver is loaded hopper end first, the weight of the operator on the walkway will tend to tip the paver onto the screed (Figure 4-47).

1. Move paver to base of ramp. Line up tracks with the ramp.
2. Make sure of the following:
 - a. Screed position is - UP
 - b. Extendable screed - IN
 - c. Gates below auger - CLOSED

NOTICE Never back up with cutoff gates open.

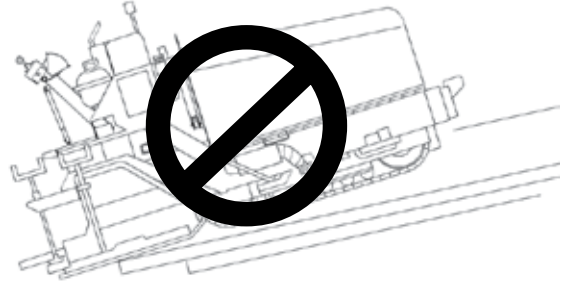


Figure 4-47. Incorrect Loading Position

NOTE: Always have a helper on the ground that can assist the operator in moving the paver onto the transport.

CAUTION To prevent an excessive jolt to the undercarriage and throughout the paver, reduce traveling speeds to a minimum before the paver tracks come in contact with loading ramps or an abrupt change in the surface. If encountered, the track drive sprocket or possible other components may be damaged because of the excessive jolt.

3. Load paver screed end first. Set throttle at 1/2 operating RPM and steering control lever so paver moves very slowly onto the ramp.
4. With the steering control lever slowly guide the paver up the ramp.
5. Place paver in center of trailer or desired position.
6. Lower screed to deck.
7. Shut down engine.
8. Secure paver to transport as directed by regulations.

Tie Down Procedure

1. Position paver on trailer centered from side to side (Figure 4-48).

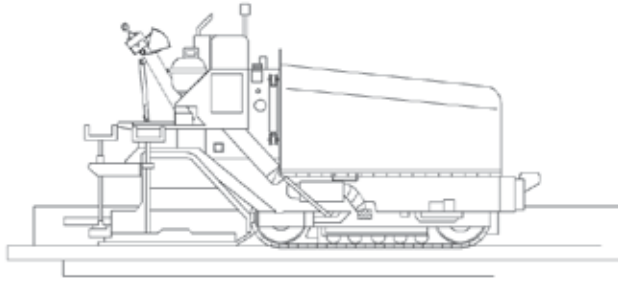


Figure 4-48. Paver On Transport

2. Attach tie down chains to the hopper end of paver at the D-rings.
3. Attach tie down chains to the screed end of paver at the D-rings (**Figure 4-49**).
4. Place chocks at wheels or tracks.
5. Make sure all chains are tight before moving.



Figure 4-49. Tie Down Points

ELECTRIC SCREED HEATING SYSTEM (OPTION)

Generator comes with LeeBoy Model 8515C Conveyor Paver equipped with optional electric screed heating system.

Generator

The Fine Tune Speed Adjuster (**Figure 4-50,1**) is on the manifold. The two ports facing you in the picture are the Pressure Port (**Figure 4-50,2**) and the Discharge Port (**Figure 4-50, 3**). The pressure line is on the right, going into the manifold, and the discharge line is on the

left, coming out of the motor. The port (**Figure 4-50,4**) coming out of the manifold is the Gauge Port. The generator is provided oil for operation by a gear pump on the paver engine.

NOTICE Do not run heating elements and auxiliary operations, such as augers, at the same time for extended periods over 1/2 hour. Generator and heating element damage will occur.

NOTE: The faster the engine is run, the faster the generator will run also. Generator is set so that it will not over-speed.



Figure 4-50. Generator Manifold Detail

- 1 - Fine Tune Speed Adjuster
- 2 - Pressure Port
- 3 - Discharge Port
- 4 - Gauge Port

The entire generator is shown in (**Figure 4-51**). Note the electrical cord (**Figure 4-51,1**) coming out of the case of the generator at the far left. This is the cable that runs to the rear of your paver that supplies power to the screed. This cable should be inspected regularly to ensure that no damage has occurred to the cable during normal operation.

NOTE: If damage is seen in the power cable, the unit should not be operated until a new cable is installed.

Figure 4-51 also shows the location of the main output breaker (**Figure 4-51,2**) in your generator. All output power from the generator is lost when this breaker is in the "tripped" or "off" position.

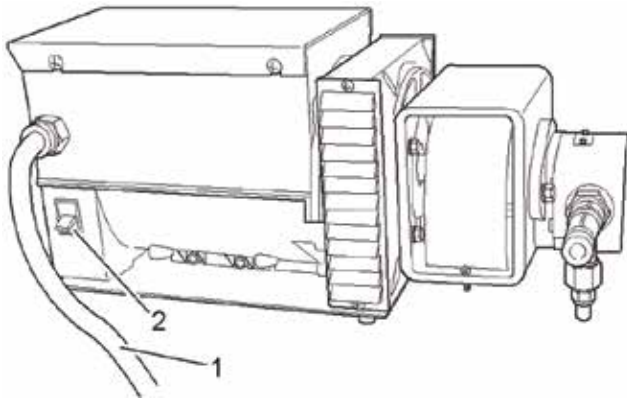


Figure 4-51. Generator

1 - Electrical Cord

2 - Main Output Breaker

NOTE: If, when your screed heat system is turned on, you have no heat on any screed, this breaker should be checked. If, after resetting the breaker, it will not stay in the ON position, a screed wiring fault should be assumed (see **Troubleshooting**).

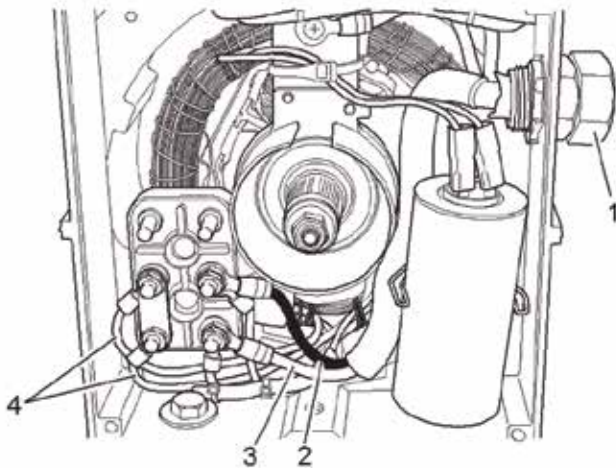


Figure 4-52. Generator Rear View

1 - Power Cable

2 - L1 (Black Wire)

3 - L2 (White Wire)

4 - Generator Winding Wire

The rear of the generator is shown in **Figure 4-52**. You can see the power cable (**Figure 4-52,1**) coming into the generator case at the top right. Just below the generator case is the voltage capacitor. The capacitor controls the output voltage of the generator, and may

need to be changed if no voltage is generated by the set (see **“Generator Voltage Testing”** on page 5-17).

The main output of the generator is located in the lower left of the picture. You will see two main wires attached to the generator, a black wire (**Figure 4-52,2**), and a white wire (**Figure 4-52,3**). The other two wires (**Figure 4-52,4**) are generator winding wires, and should not need to be serviced under normal circumstances.

Control Box

NOTE: All control boxes are manufactured the same to fit all screed and paver combinations. If your screed does not have enough element wires to fill all the plugs on the bottom of the control box, it may be normal. Any plugs that are not filled should be capped with appropriate plug terminator.

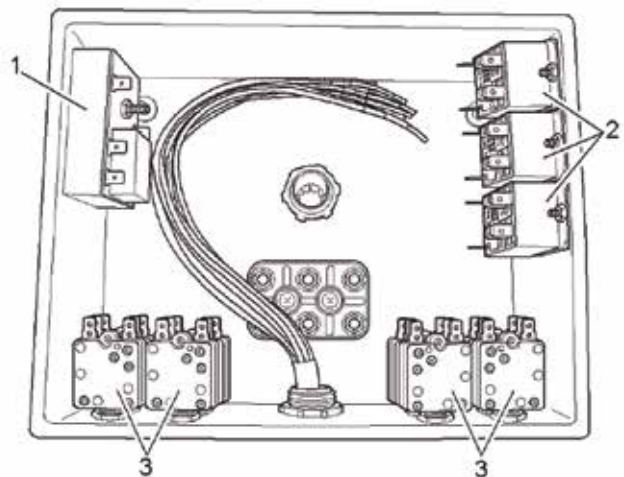


Figure 4-53. Electric Heat Control Box Before Wiring Completed

1 - System Timer

2 - Element Relays

3 - Element Breakers

The control box consists of three major types of components. The system timer (**Figure 4-53,1**) is located in the upper left hand corner of the box. The element relays (**Figure 4-53,2**) are located in the upper right hand corner of the box, and the element breakers (**Figure 4-53,3**) are located in the lower surface of the box. The other block in the center is used as a wire junction block only (see “Schematics” on page 6-3).

Cycle Timer

A heat system timer is shown **Figure 4-54**. There are six terminals on the timer. The top two left terminals are the main 12 VDC input terminals for the timer. The ground (**Figure 4-54,1**) is on the left and the power (**Figure 4-54,2**) is on the right.

The top right terminal is the common terminal (**Figure 4-54,3**) to the internal timer relay that controls the heat system. When power is applied to the input terminal, it is also jumped to the common (or COM) terminal on the timer. The lower right two terminals on the timer are the outputs of the internal timer relay.

The left of these two is the normally closed terminal (**Figure 4-54,4**), which is not used in this system, and the lower right terminal (**Figure 4-54,5**) is the normally open terminal. The normally open terminal is used as the output terminal to “turn” the heating system on. The lower left hand terminal (**Figure 4-54,6**) is the “initiate” contact. When the HEAT ON button (**Figure 4-54,2**) is depressed, 12 VDC is momentarily applied to this terminal to start the timer cycle. During the timer cycle, power will not be applied to this terminal unless the HEAT ON button (**Figure 4-54,2**) is depressed again. Keep in mind, if this happens, the timer will restart.

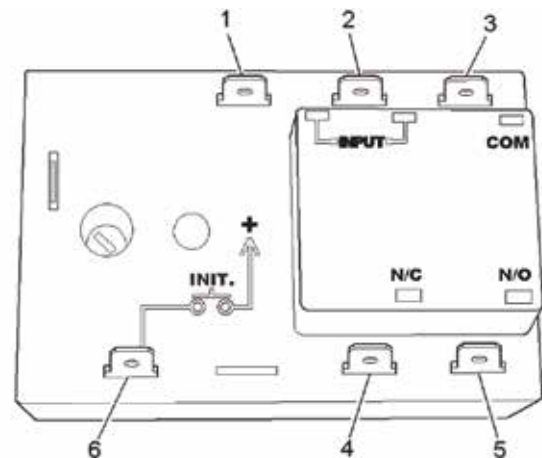


Figure 4-54. Heat System Timer Terminals

1 - Ground Input

2 - Power Input

3 - Common (COM)

4 - Terminal Output

5 - Terminal Output

6 - Initiate Terminal

Element Relay

Each element output from the bottom of the box consists of two wires. One wire will connect to the L1 circuit, and the other wire will connect to the L2 circuit. The L1 circuit is the left bank of element breakers. Each breaker has two terminals. One terminal is connected to the main input, and the other terminal is connected directly to an element output wire. The L2 circuit is the right bank of element breakers. This bank is wired slightly different, in that each leg not only goes from the main L2 power lead through a breaker, but each leg then goes through one of the six contacts on the element relays. It is these relays that “make” or “break” the circuit to each element to start or stop the heating cycles.

An element relay is shown in **Figure 4-55**. There are three relays in the control box. Each relay has two separate sets of contacts operated by one coil.

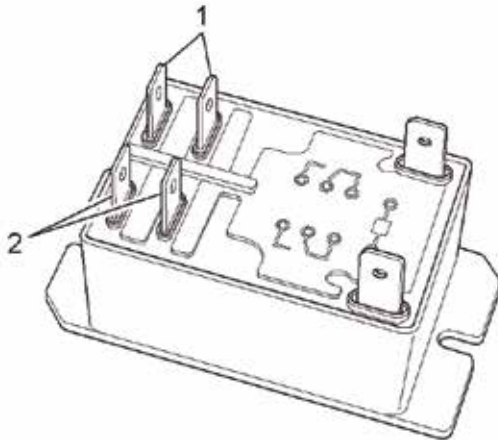


Figure 4-55. Element Relay

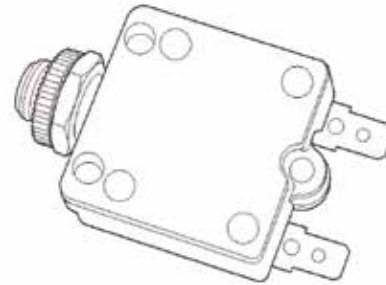
1 - Coil Terminals

2 - Contact Terminals

The coil contacts on the relay shown are at the top and bottom of the right hand side of the relay (**Figure 4-55,1**). One set of contacts are the two terminals at the top left of the relay, and the other set of contacts (**Figure 4-55,2**) are at the bottom left of the relay shown. When the coil is energized, both sets of contacts will close. All the relays used are “normally open” (see “Element Relay Testing” on page 5-19).

Element Breaker

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. The breakers can be manually reset by depressing the trip button back in when they are extended. If by depressing the breaker re-set, the breaker will not reset, there may be a need to replace the breaker, or diagnose the element, or element wiring, it is connected to.



Element Breaker

Element Connections

The bottom of the control box contains the system element breakers, and the six (6) main outputs for the screed heating elements (**Figure 4-56**). Since the heating elements are powered by 220VAC to 240VAC, each element has two breakers (**Figure 4-56,2**). There is one breaker for each leg of each element. Also shown is one of the two pin plugs that supplies power to the screed elements.

NOTE: Any element lead can be plugged into any supply plug (**Figure 4-56,1**) under the heating control/distribution box. All six plugs are equally rated.

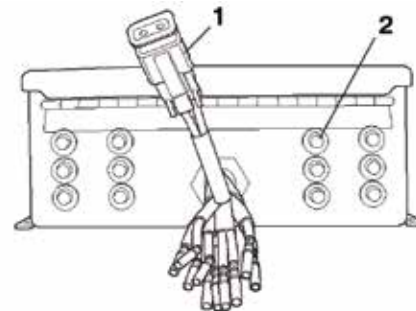


Figure 4-56. Electric Heat Control Box Bottom and Breakers

1 - Element Lead

2 - Breaker

Element Assembly

Next in the electric screed heating system are the screed heating elements themselves. Each element is sized to fit properly in your screed, and provide sufficient power to heat your screed plate to a temperature that mix will not drag or stick to the lower surface of the screed plate.

An element assembly consists of four main components. The element (**Figure 4-57,1**), the wire protector adapter

(Figure 4-57,2), the wire protector (Figure 4-57,3), and the two pin wire plug (Figure 4-57,4) at the end of the element protector (Figure 4-57,3).

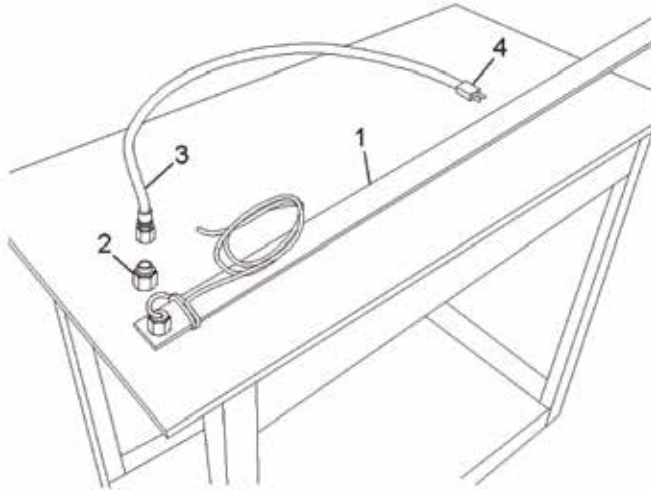


Figure 4-57. Heating Element Assembly

- 1 - Element
- 2 - Wire Protector Adapter
- 3 - Wire Protector
- 4 - Two Pin Plug

Each element (Figure 4-58,1) used has a thin strip of insulation (Figure 4-58,2) over it to keep the heat of the element from escaping. A support bar (Figure 4-58,3) is then laid over the element, and a shield (Figure 4-58,4) protects the element assembly. Each element is clamped down to the screed plate so as to provide a positive and efficient connection between the element and the screed plate.

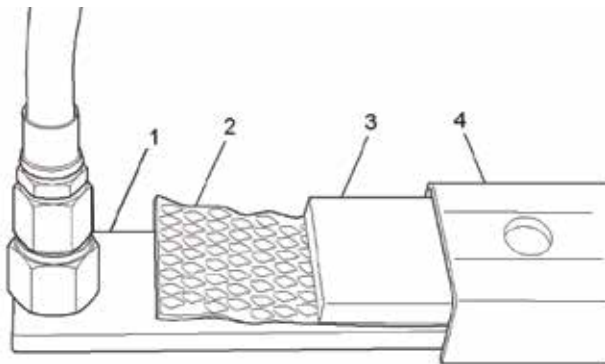


Figure 4-58. Heating Element Assembly Detail

- 1 - Element

- 2 - Insulation
- 3 - Support Bar
- 4 - Shield

A typical heating element clamp assembly is shown in Figure 4-59. The clamp setup may vary slightly depending on your screed size, or whether you are working on the extension or main screed plates. The principle is the same with all of the clamps.

Enough pressure should be applied to the element assembly to sufficiently hold the element tight against the screed plate surface. All clamp setups are lockable with a jam nut on the adjustment screw. After tightening the clamping stud, lock the clamp by tightening the stud jam nut. To remove an element, loosen all the clamping studs over the element, and then the element can be removed from the frame through the access provided at the outer end of the screed. The extension elements are accessed by removing the top cover from the extension screed plate.

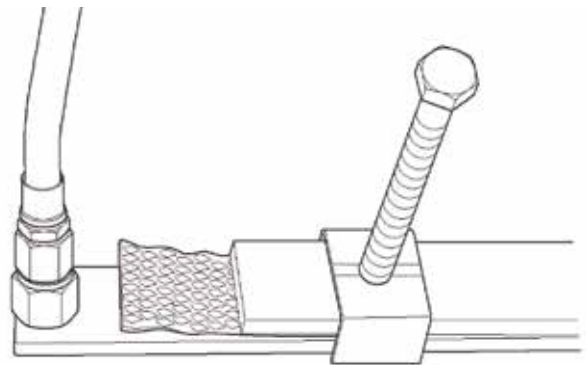


Figure 4-59. Typical Heating Element Clamp

TRUCK HITCH ATTACHMENT (OPTION)

The truck hitch is an optional attachment. It was designed to improve the asphalt laying process. This is mainly accomplished by keeping the truck driver off his brakes, preventing excessive and uneven braking. To engage the hitch with the rear wheels of the asphalt truck, proceed as follows:

NOTE: Manual Valve Lever (Figure 4-60) on left side of paver must be in Truck Hitch Position (toward Operator Dash) to work the truck hitch.

4



1

Figure 4-60. Truck Hitch Manual Valve Lever

1 - Truck Hitch Manual Valve Lever

1. Extend the arm extensions of the truck hitch by setting the Truck Hitch In/Out Switch (**Figure 3-2,15; Figure 3-4,15**) to the OUT (Down) position to extend the hitch arms.
2. Slowly drive paver toward rear of truck until roll on hitch makes contact with the rear tires of the truck.
3. Retract the arm extension by setting the Truck Hitch In/Out Switch (**Figure 3-2,15; Figure 3-4,15**) to the IN (Up) position to retract the hitch arms until both guide rollers are fully locked into truck wheel rims.
4. It may be necessary to adjust the roller guides to the inside of the wheel rims, initially.

UMBRELLA (OPTION)

Assembly Instructions

1. Install umbrella mounting bracket (See bracket mounting instructions furnished with each bracket).
2. Insert ball stud (**Figure 4-61,3**) on curved shaft into umbrella support shaft (**Figure 4-61,1**), align holes, and drive 3/16" X 1" (**Figure 4-61,2**) spiral spring pins into position. Install locking handle (**Figure 4-61,5**).
3. Place canvas cover (**Figure 4-61,7**) over umbrella

frame assembly (**Figure 4-61,8**) and hook corners to bows - tie each bow securely with tie straps.

4. Insert umbrella frame assembly (**Figure 4-61,8**) with canvas in place into tube on curved shaft (**Figure 4-61,3**) and insert bolt (**Figure 4-61,6**). Tighten snugly with nut (**Figure 4-61,4**).
5. Install complete umbrella into clamp on umbrella mounting bracket. Each bow may be raised individually until locked into open position (**Figure 4-61,15**). Each bow has two positions in which it can be locked open. This is to allow for arc stretch in canvas.

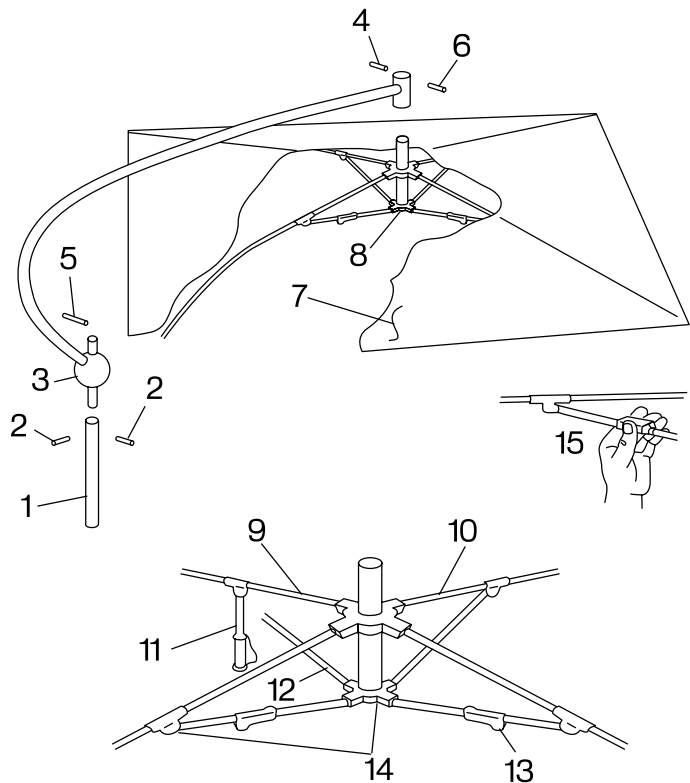


Figure 4-61. Umbrella Assembly

NOTES

NOTES



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Table 5-1. Periodic Maintenance Schedule

SYSTEM	ITEM	10 Hours Daily	50 Hours Weekly	100 Hours Monthly	250 Hours Quarterly	500 Hours Semi-Annually	1000 Hours Annually
Paver	Lubricate paver (Figure 5-1; Table 5-2. Lubrication Points Schedule)	X	X				
Hydraulic	Check oil level		X				
	Torque hub oil level			X			
	Replace oil charge filter cartridge				X		
	Replace oil				X		
	Replace oil suction filter				X		
	Replace strainer filter				X		
	Replace drive torque hub oil					X	
Engine	Inspect belts, replace A/R				X		
	Inspect air intake hoses and clamps				X		
	Inspect alternator and connections						X
	Inspect turbo						X
	Check valve clearance						X
Electrical	Check all wiring connections		X				
	Service battery						X
Engine Oil and Filter	Replace engine oil and oil filter cartridge					X	
	Check oil level - change at initial 50 hours	X					
Engine Air Cleaner	Check/clean air cleaner element				X		
	Replace air cleaner element					X	
	Check air cleaner indicator	X					
Fuel	Drain contaminant water/deposits from water separator	X					
	Replace fuel filter cartridge					X	
	Inspect Fuel System Hoses and Clamps		X				
Cooling	Clean engine cooling system					X	
	Coolant Level, check and change A/R	X					
	Inspect Coolant Hoses and Clamps				X		
	Clean radiator				X		
Mechanical	Adjust conveyor drive chains			X			
	Adjust conveyor flight chains			X			
	Adjust auger chains			X			
	Screed extension top guide adjustment			X			

LUBRICATION CHART

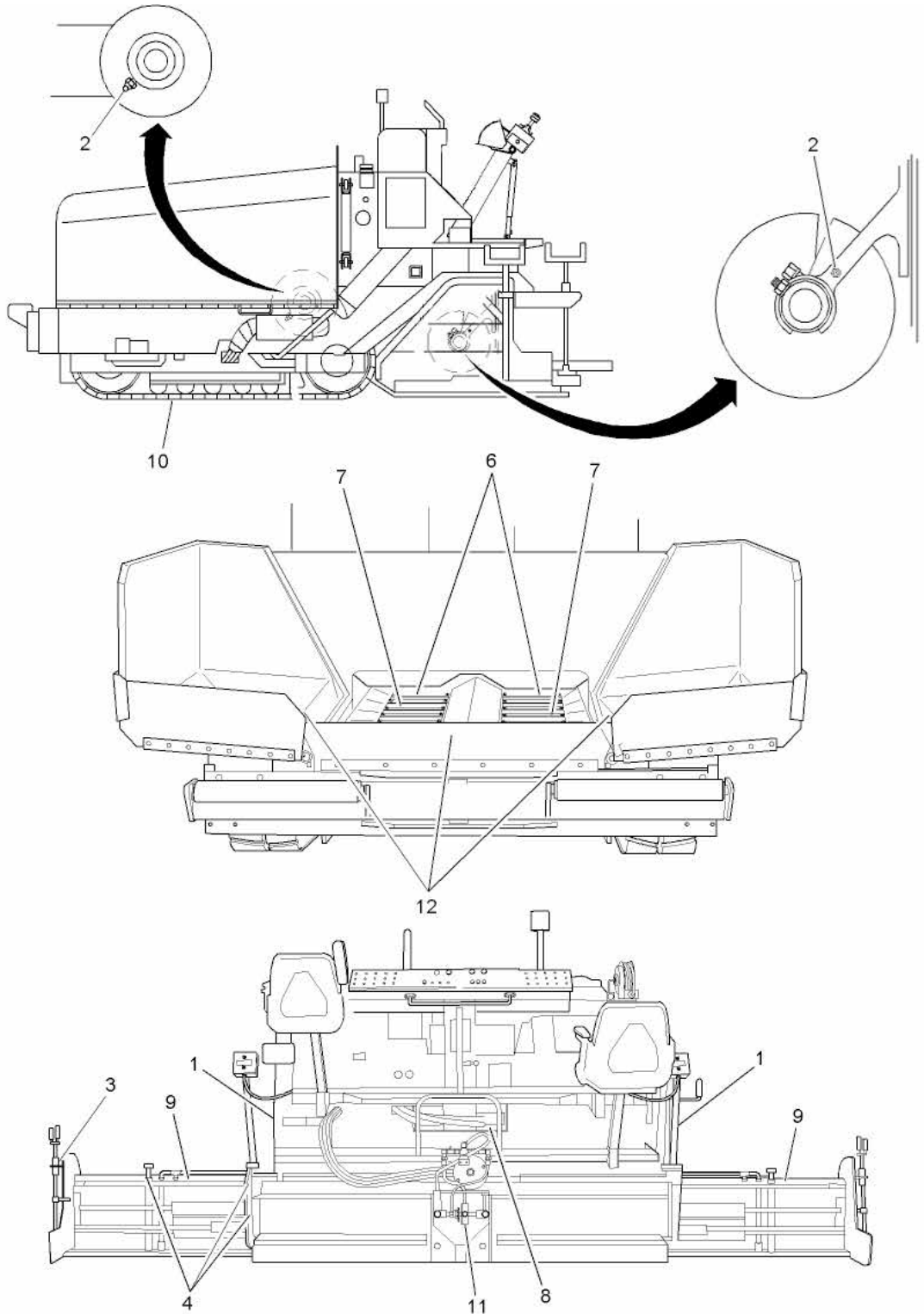


Figure 5-1. Lubrication Points

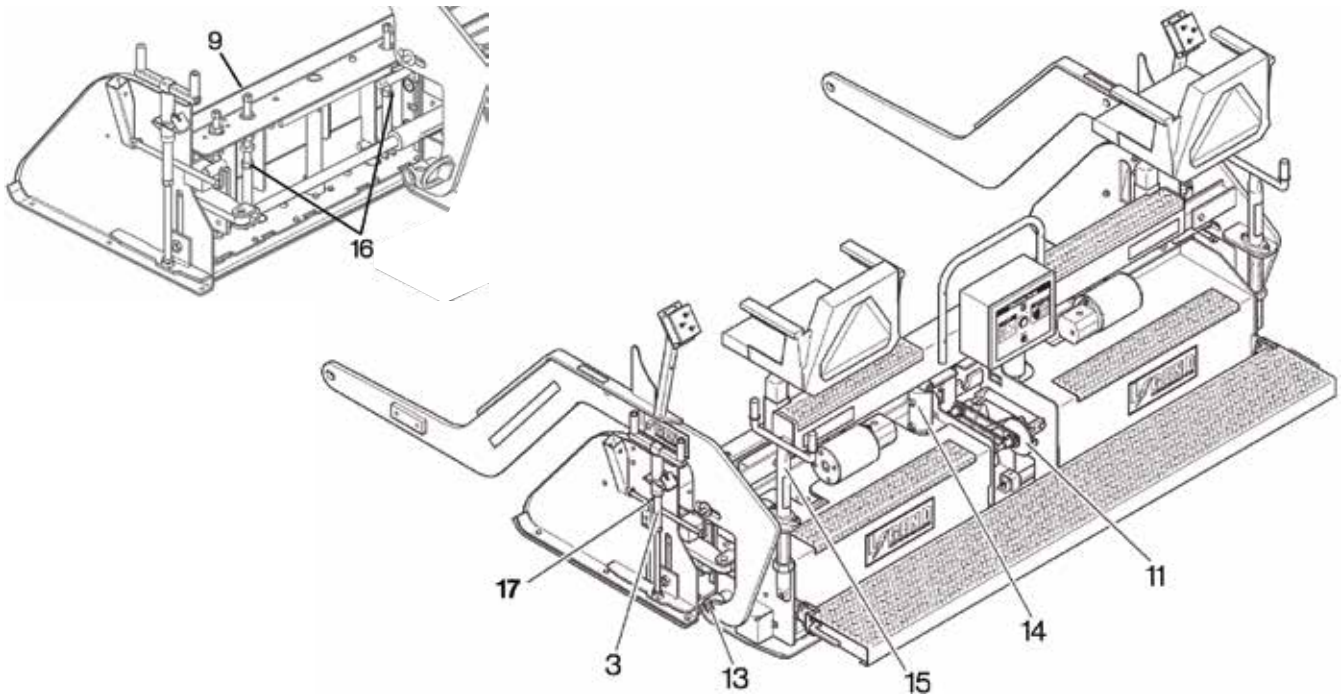


Figure 5-2. Lubrication Points

Table 5-2. Lubrication Points Schedule

5

ITEM NO.	TYPE LUB	DESCRIPTION AND LOCATION	INTERVAL
Legend	A	Grease With Shell Avania EP Grease 2 Or Equivalent	
	B	Spray With An Approved Release Agent	
1	A	Conveyor Pivot, front of screed each side under conveyor deck	Weekly
2	A	Auger, grease fitting on end mount (end of day)	Daily
3	A	Depth Screw (grease first in lock position, unlock and turn 180° and grease)	Weekly
4	A	Flange Bearing and Fitting, on flight screw plus flange bearing, on T-handle of extension, (both sides)	Weekly
6	A	Conveyor Chain, left and right side	Daily
7	B	Conveyor and Auger, as shown	Daily
8	B	Auger Chain, middle of paver	Daily
9	B	Paver, clean all surfaces	Daily
10	B	Tracks, between track pads	Daily
11	B	Screed Crown, on chain	Weekly
12	B	Spray any part of paver that contacts asphalt	Daily
13	A	Screed Pivot	Weekly
14	A	Slope Cylinder Pivot	Weekly
15	A	Main Flight Screws Ball Socket & Nut	Weekly
16	A	All Screws On Extension And Bearing	Weekly
17	A	Tilt Screws	Weekly

GENERAL INFORMATION

Before performing any maintenance procedures on the LeeBoy Model 8515C Conveyor Paver, read the following safety information and review **Safety** in Section 1.

WARNING **Tool Hazard! ALWAYS use tools appropriate for the task at hand and use the correct size tool for loosening or tightening screed parts.**

WARNING **Burn Hazard! ALWAYS handle hot components with heat-resistant gloves.**

This section gives the necessary procedures for routine and general maintenance on the paver. Follow all the maintenance schedules and maintenance procedures to maintain the paver in top operating order (see **“Periodic Maintenance Schedule”** on page 5-3).

MAINTENANCE SCHEDULE

General Information

The Maintenance Schedule lists the recommended time intervals between LeeBoy Model 8515C Conveyor Paver maintenance inspections and lubrication procedures.

Periodic Maintenance Schedule gives inspection and lubrication information for the LeeBoy Model 8515C Conveyor Paver.

The “Hour” and “Periodic” time periods list most service intervals. The maintenance schedule begins with 10-hour, or daily, maintenance intervals and continues through the 1000-hour, or annual, maintenance schedule intervals.

Preventive maintenance on the paver will provide years of trouble-free operation. Adjustment can be performed in the field with ordinary hand tools. Engine preventive maintenance, other than oil, air and fuel filter changes, is not covered in this section. Refer to current engine operator’s manual for engine service information.

NOTE: For your convenience there is an oil drain hose located on right-hand side of paver.

NOTICE **The changing of oil and cleaning of the LeeBoy Model 8515C Conveyor Paver should only be done in a designated area that can contain the oil and chemicals involved in any maintenance requirement. These by-products should be discarded in accordance with environmental regulations.**

NOTICE **Do not substitute fasteners of any kind unless the fasteners are equal in size and grade as original equipment.**

NOTE: When performing any routine maintenance such as 50, 100, 250, 500 and 1000 hours, always include previous routine maintenance hours in the higher hourly schedule.

NOTE: If the paver is operated more than 10 hours per day, follow the “Hour” schedule. If the paver is operated less than 10 hours per day, follow the “Periodic” schedules, where they apply.

WARNING **Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.**

NOTICE **If mix is allowed to remain on the screed overnight, possible damage can result on start-up the next day. Poor housekeeping will increase maintenance costs.**

Preparing Paver for Maintenance

When performing maintenance, perform the following steps before leaving the operator’s position, unless the maintenance procedure instructs otherwise.

1. Park the paver on a flat even surface.
2. Lower all attachments to ground level.
3. Place transmission in neutral.
4. Run engine at 1/2 speed (RPM) without load for 3 to 5 minutes.
5. Reduce engine speed (RPM) to slow idle.
6. Place ignition switch in the OFF position.

WARNING **If maintenance must be performed with engine running, do not leave paver unattended.**

Paver Lubrication

Proper lubrication is necessary to maintain the LeeBoy Model 8515C Conveyor Paver at top efficiency. Refer to the lubrication information in **Table 5-2. Lubrication Points Schedule**. All lubrication points are shown in **(Figure 5-1 and Figure 5-2)**.

10-Hour or Daily Routine Maintenance

1. Scrape off mix and spray cleaning solvent or release agent on the screed wearplate, extensions, and any place that screed has come in contact with the mix. This operation is quick and simple when the paver is still hot.

WARNING Fire Hazard! Never spray cleaning solvent or release agent on or near a screed heating element that is hot or being heated or on or near any open flame or ignition source. Cleaning solvent and release agent could ignite causing serious personal injury.

WARNING Pierce Hazard! Avoid skin contact with high-pressure hydraulic fluid spray caused by a hydraulic system leak such as a broken hydraulic hose line. High-pressure hydraulic fluid can penetrate your skin and result in serious injury. If you are exposed to high-pressure hydraulic fluid spray, obtain prompt medical treatment. Have your authorized LeeBoy Dealer repair the damage.

2. Raise conveyors (see “Raising Conveyor” on page 5-11) and clean mix off all flat surfaces when the paver is still hot. Immediately after raising conveyors place the safety prop in proper position.

WARNING Use extreme care when working under conveyors. Clear the area of untrained personnel. Be sure safety prop is properly placed into support position (Figure 5-3).

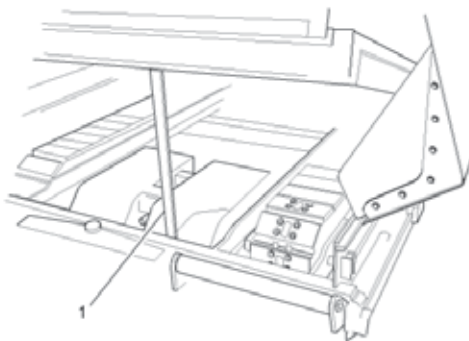


Figure 5-3. Safety Prop in Position

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.

NOTICE If mix is allowed to remain in the paver overnight, possible damage can result upon start-up the next day. Poor housekeeping will increase maintenance costs.

3. Keep the fuel tank full to keep condensation from forming. Fill at end of day.
4. Perform engine preventive maintenance as described in your engine operator’s manual. Any engine preventive maintenance should always begin with an oil check.
5. Lubricate paver according to “Table 5-2. Lubrication Points Schedule” on page 5-5.
6. Check for damaged, or loose element wires and harness connections. Repair or replace as required.
7. Check for damaged, loose, or missing decals. Replace decals as required (see “Safety Label Installation” on page 5-35).

50-Hour (Initial) or Weekly Routine Maintenance

1. Check hydraulic oil and add if necessary.
2. To fill, remove cap, located on top of reservoir, and pour through. If you have a hydraulic or air pump, you can fill at pressure hose off of rear gear pump for conveyors. (Remove cap and fill.)

NOTICE The LeeBoy Model 8515C Conveyor Paver hydraulic system requires clean, contaminant-free oil (see “Lubricant Specifications” on page 2-10). Take care when working with the hydraulic system to ensure it is completely clean.

3. Adjust conveyor chains (see “Conveyor Drive Chain Adjustment” on page 5-14).
4. Check auger chains, lubricate and adjust.

WARNING Fire and Explosion Hazard! Do not smoke when observing battery electrolyte level. The fumes can explode.

WARNING Burn Hazard! Electrolyte is an acid that can burn if it contacts skin or eyes. If contact is made, flush area immediately with water and obtain prompt medical attention.

5. Check all battery connections and remove any corrosion that is present. (Check cables daily.)
6. For both sides of the screed, lubricate all grease fittings on the flight screw, the fitting on the depth screw, and the fittings on the flange bearings located on top of the extension screed (Figure 5-1; Figure 5-2). Grease nuts on extension screws.
7. Blow dust from generator unit under hopper conveyor.

100-Hour or Monthly Routine Maintenance

1. The torque hub is positioned so the center plug (**Figure 5-4,1**) is at the twelve o'clock position. Remove the plug either at the three or nine o'clock position (**Figure 5-4,2**). If oil comes out, no oil is needed. Insert plug and tighten. If oil does not come out, remove the plug at the 12 o'clock position and fill torque hub with specified gear oil (**see "Lubricant Specifications" on page 2-10**) until oil starts to appear at the other hole. Replace both plugs and repeat process on other torque hub.

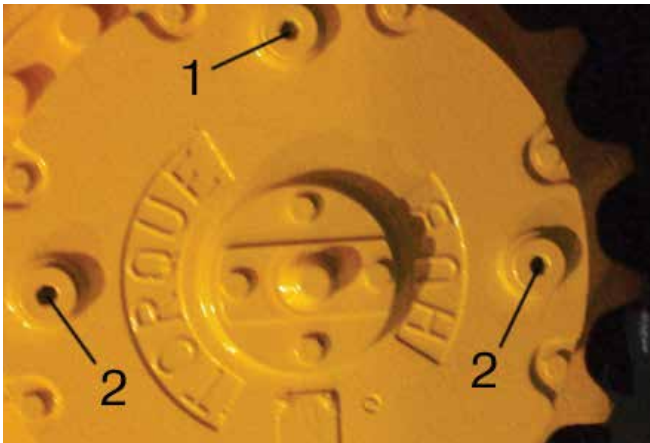


Figure 5-4. Torque Hub Plug Orientation

1 - Center Plug

2 - Side Plugs

2. Perform any other engine preventive maintenance as described in the engine operator's manual.
3. Check and adjust all chains, as required (see **Conveyor Drive Chain Adjustment**).

250-Hour or Quarterly Routine Maintenance

1. Perform the 250-hour preventive maintenance as described in the engine operator's manual.
2. Change charge filter between valve bank and main pump.
3. Change return filter on lower manifold.
4. Check air cleaner, if the engine is equipped with a dry type element.

NOTICE Improperly serviced air cleaners quickly wear out engines and piston rings.

500-Hour or Semi-Annual Routine Maintenance

1. All bearings are sealed and have grease fittings. These should be greased with multipurpose grease using a hand grease gun. Be careful to avoid blowing the seals.
2. Perform the 500-hour preventive maintenance as described in the engine operator's manual.
3. Replace dry type air filter, if equipped. Refer to the current engine operator's manual for service information.
4. Change engine oil. To assure complete removal of contaminants in the oil, perform the oil change while engine is warm.
5. After draining used oil, clean and reinstall drain plug and fill crankcase to the full mark with manufacturer's recommended oil (**see "Lubricant Specifications" on page 2-10**).
6. Change engine oil and filters.

1000-Hour or Annual Routine Maintenance

1. Drain and flush the hydraulic tank. A drain plug is located on the bottom of the tank for this purpose. Fill as required (**see "Changing Hydraulic Oil" on page 5-25**).
2. Perform the 1000-hour preventive maintenance as described in the engine operator's manual.
3. Change oil in drive torque hubs (**see "Lubricant Specifications" on page 2-10**).

MAINTENANCE ADJUSTMENTS

Screed Extension Top Guide Adjustment

1. Close the left and right extensions to their fully retracted positions.
2. Loosen top jack bar bolts.
3. Use allen set screws on top of rail to tighten the upper slide guide rail down. Access the upper slide guide rails through the small openings in the upper cover near the front of the main screed frame. Start at the outside of the paver, and work to the center.
4. Retighten top slide rail bolts.
5. Check for binding - do not overtighten set screws.
6. Run the extensions out fully and grease the slide track rails.

NOTE: The slide tracks should be greased daily to help prevent excessive wear.

Electric Screed Extension Top Guide Adjustment (Option)

1. Close the left and right extensions to their fully retracted positions.
2. Loosen the five (5) 1/2" bolts that hold the upper slide guide rails on the rear of the screed frames for each side.

NOTE: For 8500 Series Screed: loosen top slide rail bolts, then tighten set screws on top jack bar. Retighten top slide rail bolts. Check for binding - do not overtighten set screws.

3. Use a blunt punch and a hammer to carefully tap the upper slide guide rail down. Access the upper slide guide rails through the small openings in the upper cover near the front of the main screed frame. Start at the outside of the machine, and work to the center. Tighten each of the five (5) 1/2" bolts, one at a time, as you work your way to the center.
4. When the upper slide guide rail is tight, finish tightening the five bolts per side to 75 ft. lbs. (100 N•m.).
5. Run the extensions out fully and grease the slide track rails.

NOTE: The slide tracks should be greased daily to help prevent excessive wear.

Replacing Screed Extension Wear Plates

Removal

1. Run extension out fully.
2. Remove endgate by disconnecting tilt screw and loosen the 7/8" jam nut.
3. Remove nut. Endgate will drop forward out of slot and slide off of stud.
4. Locate and unplug the element power wire. Make certain the wire running into the extension screed is loose and will drop away when the screed plate is removed with interference.
5. Remove shoulder bolts out of lower adjustment screws on top of wear plate (**Figure 5-5,1**).
6. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
7. Lower screed to ground and pull front pivot pin out (**Figure 5-6**).
8. Lift screed and wear plate should be disconnected.

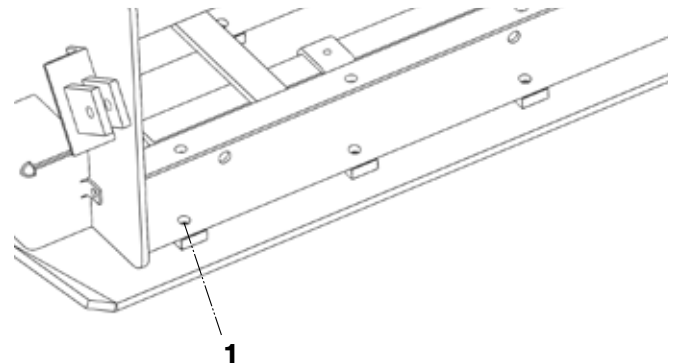


Figure 5-5. Wear Plate Shoulder Bolts
1 - Adjuster Screw Shoulder Bolt

Installation

1. Clean all areas where new wear plate will be attached.
2. Place new wear plate in position with floor jack or by lowering screed to floor and slide pivot pin in.
3. Reconnect the element power wire and re-tie the power cable to the attachment point provided.

NOTE: Do not tie the power cable so that it is tight. A small amount of slack in the cable where it enters the protective hose fitting is required.

4. Attach adjustment screws to new wear plate.
5. Place endgate back on.
6. Adjust 7/8" nut so that endgate will move up and down freely, then lock in place with jam nut.
7. Connect tilt screw.

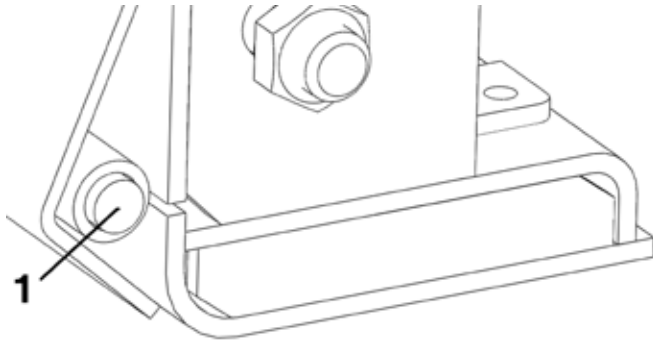


Figure 5-6. Extension Wear Plate

1 - Front Pivot Pin

Replacing Electric Screed Extension Wear Plates (Option)

Removal

1. Run extension out fully.
2. Remove endgate by disconnecting tilt screw and loosen the 7/8" jam nut.
3. Remove nut. Endgate will drop forward out of slot and slide off of stud.
4. Remove bolts out of lower adjustment bolts on top of wear plate.

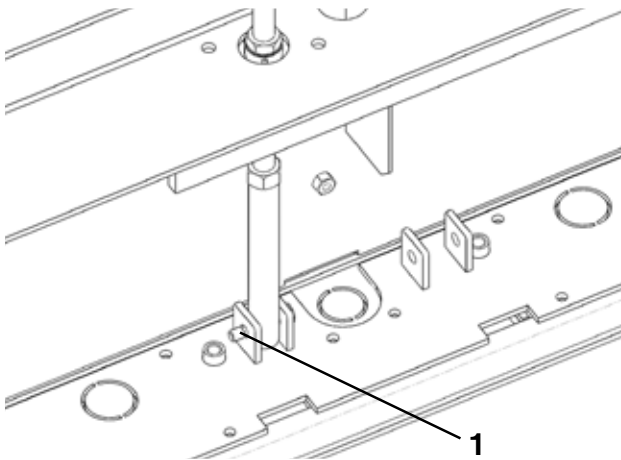


Figure 5-7. Wear Plate Anchor Bolts

1 - Wear Plate Anchor Bolt

5. Locate and unplug the element power wire. Make certain the wire running into the extension screed is loose and will drop away when the screed plate is removed with interference.
6. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
7. Lower screed to ground and pull front pivot pin out (**Figure 5-6**).
8. Lift screed and wearplate should be disconnected.

Installation

1. Clean all areas where new wearplate will be attached.
2. Place new wearplate in position with floor jack or by lowering screed to floor and slide pivot pin in.
3. Reconnect the element power wire and re-tie the power cable to the attachment point provided.

NOTE: Do not tie the power cable so that it is tight. A small amount of slack in the cable where it enters the protective hose fitting is required.

4. Attach adjustment screws to new wearplate.
5. Place endgate back on.
6. Adjust 7/8" nut so that endgate will move up and down freely, then lock in place with jam nut.
7. Connect tilt screw.

Replacing Screed Main Wear Plates

Removal

1. Remove walk boards.
2. Remove screed lids.

NOTE: Once walk boards are removed lids will slide out.

3. Remove the twenty-four (24) bolts (**Figure 5-8,1**) holding wear plate to screed frame.

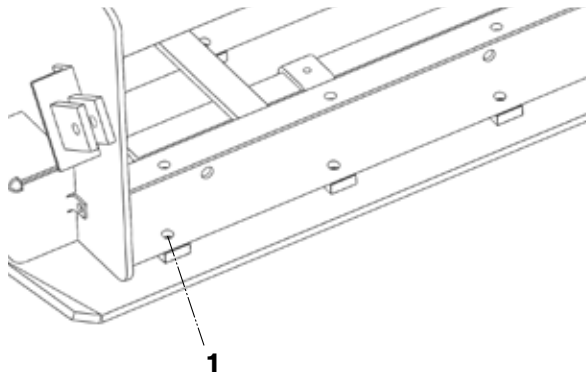


Figure 5-8. Wear Plate Mounting Bolts

1 - Bolt Location

4. Under the heating control/distribution box, locate the element attachment plugs. Remove the protective cover, and unplug the main screed elements so that the main element power wires can be lowered with the wear plate.
5. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
6. Before raising screed off of wear plate, clamp center of crown gussets so that screed frame stays flat.
7. Raise screed off of wear plate.

Installation

1. Clean screed frame.
2. Set screed frame down on to new wear plate letting cylinders carry most of weight. This will allow wear plate to be moved to align with bolts.
3. Place five (5) bolts in front left side first, then right side.

NOTE: You may need to clamp or pry around or rotate crown in and out so that five (5) bolts in right side line up.

4. Once these bolts are in place, bolt rear of wear plate up to frame assembly.

5. Once bolts are started, lift screed and set on three 2" x 4" boards to hold flat. Place one board at each end and one in the center.
6. Level the screed with the flight screws (**Figure 3-7,3; Figure 3-8,3; Figure 3-9,6**) until neutral position is felt.

NOTE: Neutral position is when the pressure on the flight screw is the same when screwing either clockwise (CW) or counterclockwise (CCW).

7. Let screed all the way down and torque bolts from center out, 2 on left side then 2 on right side to 50 ft lbs. (67 N•m).
8. Install screed lids and walk boards.
9. Reconnect all element wires that were unplugged.

Raising Conveyor

CAUTION Before raising or lowering conveyors, fold side wings into the full "out" position.

1. Fold side wings all the way in by pulling the Side Wings In/Out Lever (Figure 3-2,11) down to the IN position, then remove bolts on side wings.
2. Grab top of wings and pull out 5 to 6 in. (13 to 15 cm), then pull bottom handle out till side wing knuckles out (**Figure 5-9**).

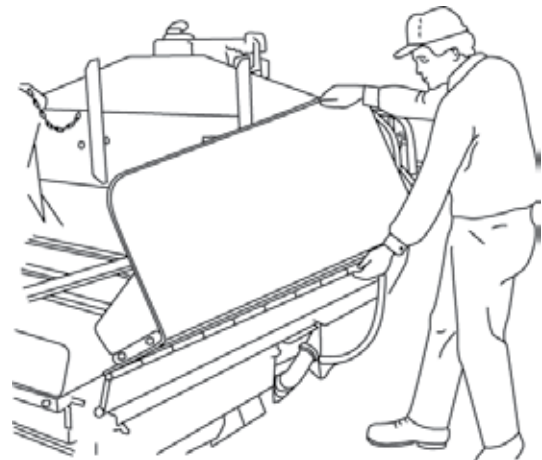


Figure 5-9. Side Wings

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

NOTE: Engine must be running to raise conveyor.

NOTE: Manual Valve Lever (**Figure 4-60**) on left side of paver must be in CONVEYOR RAISE/LOWER position (toward hopper) to work the Conveyor Raise/Lower Switch.

3. Raise conveyor by placing the Conveyor Raise/Lower Switch (**Figure 3-3,12**) to the RAISE position and hold until conveyor is fully raised.
4. Immediately after raising the hopper, place the safety prop in position (**Figure 5-10,1**)

NOTE: Engine should be turned off when lowering.

5. With engine turned OFF and Key ON, lower the conveyor onto the safety prop by placing the Conveyor Raise/Lower Switch (**Figure 3-3,12**) to the LOWER position and hold until conveyor is fully lowered and is resting securely on the safety prop. This will provide a margin of safety preventing the safety prop from accidentally being dislodged.

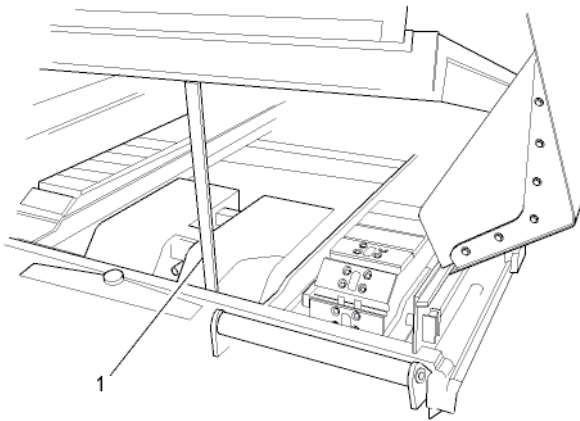


Figure 5-10. Safety Prop in Position

1 - Safety Prop

Lowering Conveyor

CAUTION Remove all tools or foreign objects before lowering.

1. Before lowering the conveyor, make sure that the area under the conveyor is clear of tools or foreign objects.
2. Release safety prop (**Figure 5-10,1**) carefully. If conveyor has dropped firmly down onto safety prop, it will be necessary to raise the conveyor. After raising the conveyor, lower the safety prop as instructed.
3. Lower conveyor by setting the Raise Conveyor Raise/Lower Switch (**Figure 3-3,12**) to the LOWER position and hold until conveyor is fully lowered.
4. Clean area where side wings fold down.
5. Fold side wings back with same in and out knuckle motion used to raise the side wings.
6. Reinstall the hold down bolts on each side wing.

CAUTION Never pave with hold down bolts out. Side wings may lift, letting asphalt get into conveyor chains.

Conveyor Flight Chain Adjustment

NOTICE For cold weather, keep conveyor flight chain properly oiled with cleaning solvent or release agent. This will prevent conveyor from sticking inside of conveyor pan. Neglect could result in conveyor bars bowing if conveyor sticks.

NOTE: The conveyor should run smooth when conveyor chain is properly adjusted. These chains should be adjusted every 100 hours to maintain smooth operations. If irregular movement of the conveyor occurs, this is generally a sign that an adjustment is needed.

CAUTION Entanglement Hazard! Do not run engine while checking and servicing conveyor drive train.

Use the following procedure to make adjustment:

1. Raise conveyors (see “Raising Conveyor” on page 5-11). Put keys in safe place.
2. Secure safety prop (Figure 5-10,1) to prevent conveyor from accidentally lowering.
3. Loosen the Locknut (Figure 5-11,1) and bolt holding the Adjustment Roller Assembly.
4. Turn Adjustment Bolts (Figure 5-11,2) alternately on both sides of the conveyor. (LeeBoy recommends turning one bolt one half turn, then the other bolt one half turn. Continue alternating tightening until chains are tight). The pressure on the chain will be noticeable as the bolts are tightened.
5. After the conveyor chain tension is set, tighten Locknut (Figure 5-11,1) and bolt holding assembly.
6. If the adjustment bolts (Figure 5-11,2) have been run out, it will be necessary to remove a link in the conveyor chains and add a half link. This repair should bring the adjustment bolts back to full travel.
7. Repeat steps 1 through 4 for the opposite side.

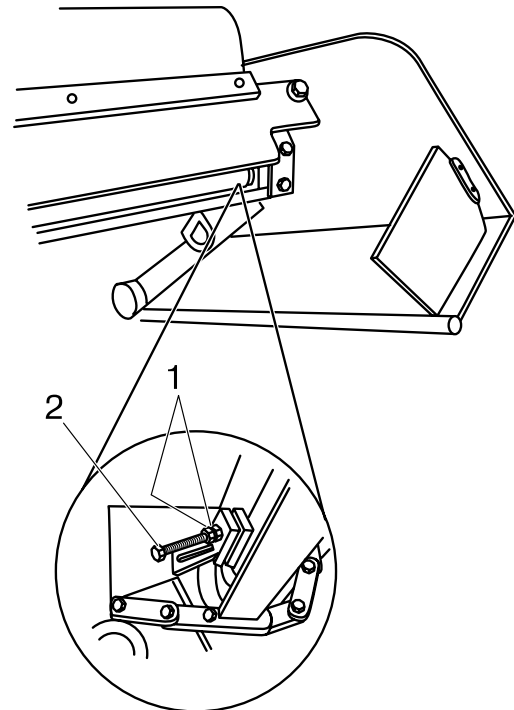


Figure 5-11. Adjusting Bolt

1 - Locknut

2 - Adjustment Bolt

Automatic Track Adjustment

NOTE: Failure to maintain adequate throttle setting may cause improper adjustment to track.

CAUTION When backing this paver with load, maintain at least a three-quarter throttle setting. Failure to do so may cause improper track tension, resulting in poor performance and damage.

Hydraulic adjustment cylinders are automatic and provide even tension on track that prevents excessive wear to paver undercarriage. This feature requires the operator, when backing with load, to maintain at least three-quarter throttle setting. Hydraulic pressure below three-quarter throttle is not adequate to maintain track adjustment.

Conveyor Drive Chain Adjustment

CAUTION Entanglement Hazard! Do not run engine while checking and servicing conveyor drive train.

1. Look at drive chain through the top of the frame. If drive chain has excessive loose motion in it, adjustment is necessary.

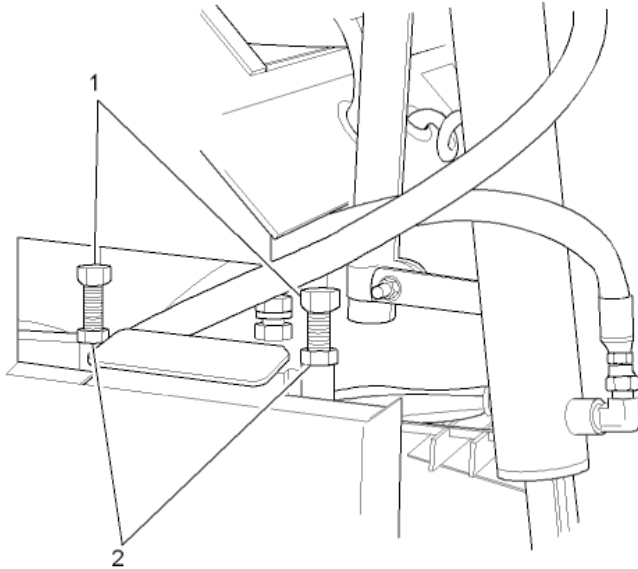


Figure 5-12. Conveyor Chain Adjusting Bolts

1 - Chain Adjuster

2 - Locknut

2. If adjustment is necessary, loosen the Locknuts (**Figure 5-12,2**) on the chain adjuster. Turn the Chain Adjuster (**Figure 5-12,1**) until the whip in the drive chain disappears.
3. Retighten Locknuts (**Figure 5-12,2**) when adjustment is made.
4. Perform the same check on the opposite conveyor drive chain.

Torque Hub Hydraulic Motor Adjustment

Low Gear

NOTICE Torque hub hydraulic motors are calibrated and set at the factory. Only an Authorized LeeBoy Dealer should make adjustments.

NOTE: The low gear adjustment screw is located on bottom of drive motor.

The adjustment must be made to the slow side drive motor only. Only make small changes at a time and recheck paver. Proceed as follows:

NOTE: Low gear operation requires the 2-Speed High/Low Switches on both sides of the dash panel to be in the LOW position.

1. With paver running, set both 2-Speed High/Low Switches (**Figure 3-2,13; Figure 3-3,13**) to the LOW position. The red 2-Speed Light should not be illuminated.
2. Locate adjustment screw on the bottom of the hydraulic motor.
3. Adjust screw in small increments of about 1/4 turn then recheck tracking.

High Gear

NOTE: The high gear adjustment screw is located on top of drive motor.

Tracking adjustment on the high side gear is performed by adjusting the screw on top of hydraulic motor. The adjustment on the motor for the fast track must be screwed in to equalize track speed.

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

NOTE: High gear operation requires the 2-Speed High/Low Switch on either side of the dash panel (**Figure 3-2,13; Figure 3-3,13**) to be in the HIGH position.

1. With paver running, set either 2-Speed High/Low Switch (**Figure 3-2,13; Figure 3-3,13**) to the HIGH position. The red 2-Speed Light will be illuminated.
2. Adjust screw on top of hydraulic motor until back pressure from spool is felt on adjustment screw. This indicates adjustment is close.
3. Finalize adjustment by making one quarter (1/4) turn at a time until correct adjustment is made.

Auger Drive Chain Adjustment

1. The auger chains should be just snug, not loose. To tighten chains, loosen bolts (**Figure 5-13,1,2**) in slots provided for take up.
2. To adjust chains for the right auger, use Right Auger Chain Adjuster Bolts (**Figure 5-13,1**). For left auger adjustment, use Left Auger Chain Adjuster Bolts (**Figure 5-13,2**).
3. Use jack bolt under hydraulic motor mount to tighten chain. Twist auger forward and rearward by hand to feel play in chain (1/4 in. [0.6 cm] of play in chain is recommended).
4. Tighten adjustment bolts to a torque of 209 ft. lbs. (283 N•m).

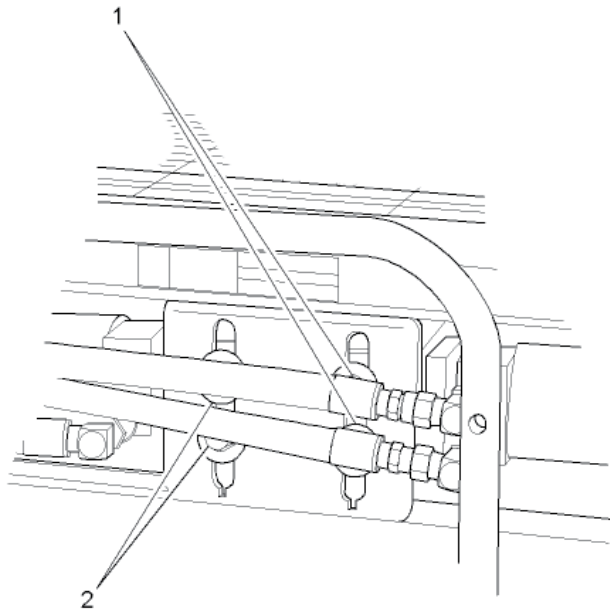


Figure 5-13. Auger Chain Adjusting Bolts

1 - Right Auger Chain Adjuster Bolts

2 - Left Auger Chain Adjuster Bolts

Track Tension Pressure Relief

Pressure Check

NOTE: Relief pressure is set at 700 PSI at track tension manifold (**Figure 7-1,43**).

1. To check pressure, connect a 2000 PSI gauge at one of the hoses going to the track tension cylinder (**Figure 7-1,19**).
2. Place a hydraulic jack between front idler (**Figure 7-1,14**) and track rail.
3. Increase hydraulic jack pressure until front idler cylinder compresses.

NOTE: Pressure should go to 700 PSI. If pressure is not correct, adjust relief IN for more pressure and OUT for less pressure.

Track Tension Release

1. Locate manifold (**Figure 7-1,43**) under hopper to release track tension.

CAUTION Do not tamper with adjustment part of relief cartridge.

2. Back relief cartridge out of the aluminum block about three turns or until pressure release is heard.
3. Make sure cartridge is tightened before moving paver.

Conveyor Limit Switch Adjustment

In order for the conveyor's start and stop to occur at the correct position, small adjustments may be necessary to the micro-switch (**Figure 5-14,1**) located on the conveyor flap (**Figure 5-14,2**). There are two positions of the conveyor flap: one upper, shutting the conveyor OFF, and one lower, turning the conveyor ON. Read the following procedures carefully, referring to the figures as needed.

1. Raise the conveyor flap (**Figure 5-14,2**) 6-1/2 to 7 in. (16.5 to 17.8 cm) from bottom of the tank mount support (**Figure 5-14,3**). Secure conveyor flap so it remains in this position. If micro-switch clicked OFF within the 6 1/2 to 7 in. (16.5 to 17.8 cm) limit, no further adjustment is required to the upper travel.
2. If the micro-switch (**Figure 5-14,2**) did not click OFF, adjustment is needed. Remove the linkage (**Figure 5-14,4**) attaching the actuator arm (**Figure 5-14,5**) to the eyelet on the flap pivot housing (**Figure 5-14,6**).

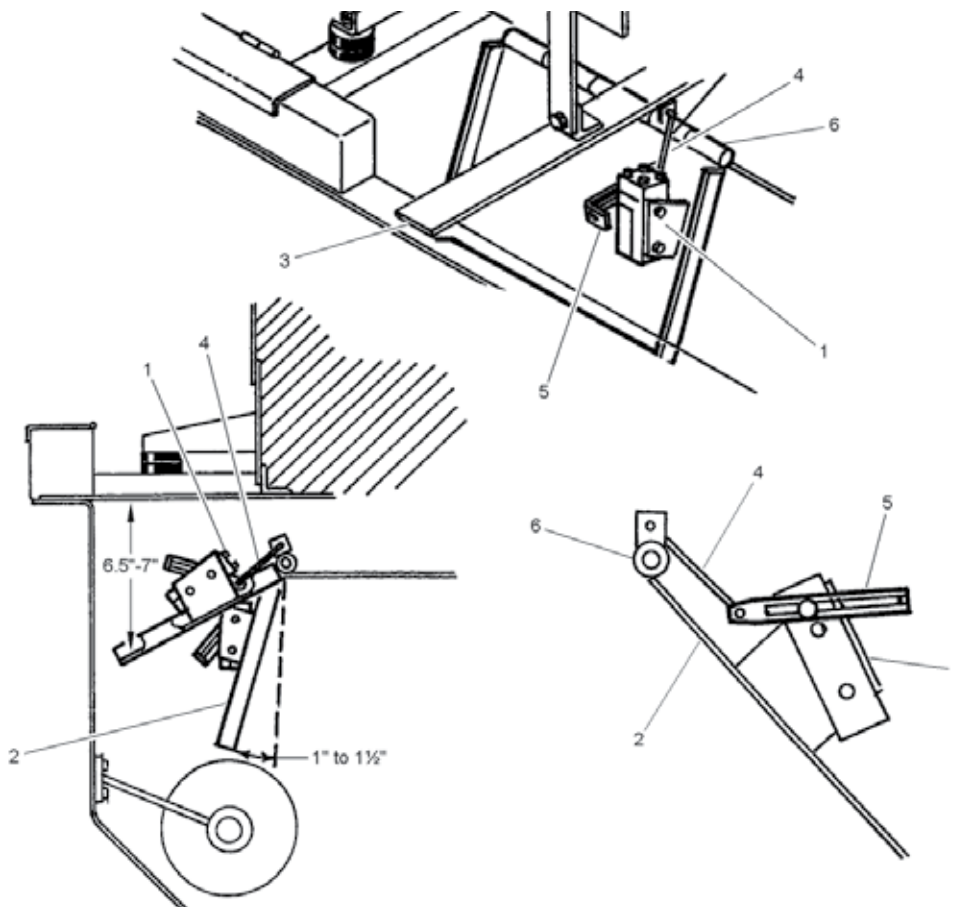


Figure 5-14. Conveyor Micro-Switch Location

1 - Microswitch

2 - Conveyor Flap

3 - Tank Mount Support

4 - Linkage

5 - Actuator Arm

6 - Flap Pivot Housing

- Loosen setscrew "A" (**Figure 5-15,1**), on the actuator arm (**Figure 5-15,2**). Reposition this arm by either rotating it clockwise or counterclockwise depending where the micro-switch clicked OFF during the conveyor flaps upward travel (**Figure 5-15**).

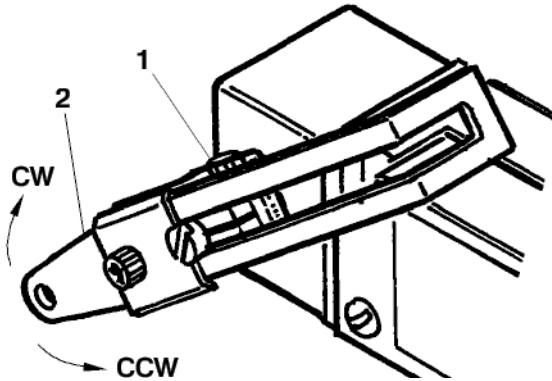


Figure 5-15. Setscrew "A" Location

- 1 - Setscrew A
- 2 - Actuator Arm

- When the click OFF occurs between the 6-1/2 to 7 in. (16.5 to 17.8 cm) limit, tighten setscrew and connect linkage.
- If the lower flap travel does not fall into the lower limits, loosen setscrew "B" (**Figure 5-16,1**) on the actuator arm (**Figure 5-16,2**) slightly.

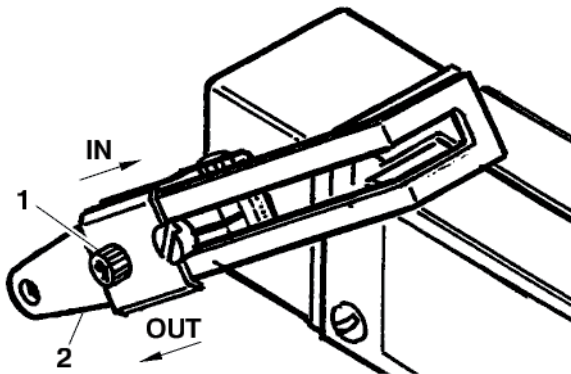


Figure 5-16. Setscrew "B" Location

- 1 - Setscrew B
- 2 - 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.

- 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.

ELECTRICAL SYSTEM

NOTICE Use compressed air to blow dirt from generator monthly or more often if used in dirty environment. Do not use high pressure water.

Generator Voltage Testing

The LeeBoy Model Legend Electric Screed System generator is hydraulically driven. When the paver engine is at full RPM and the hydraulic system at normal operating temperature, the generator should produce between 220VAC and 240VAC.

The voltage of the generator depends on speed (RPM). The voltage increases as RPM increases, and decreases as RPM decreases. The voltage will decrease significantly if generator speed is slower than 3000 RPM.

NOTE: When testing the generator voltage ensure the paver engine is at full RPM and the hydraulic temperature is at normal operating levels.

To test the generator voltage at the generator:

- Use volt meter to measure between the two main input wires L1 and L2 (**Figure 5-17,2,3**). If you measure from L1 to the frame of the paver, or ground, the voltage will be half of the rated output of the generator. The voltage should be the same as measured at the control box.

To test the generator voltage at the control box:

- Use volt meter to measure between the two main black and white input wires located inside the control box on the terminal block similar to one in **Figure 5-17** The voltage should be the same as measured at the generator.

NOTE: If your voltage at this point is lower, make certain the generator is turning the correct speed (see **"Generator Speed Tuning" on page 5-18**).

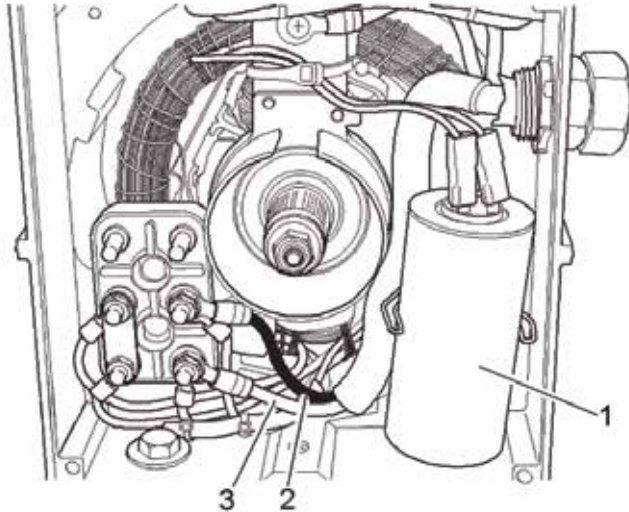


Figure 5-17. Generator Testing View

- 1 - Capacitor
- 2 - L1 (Black Wire)
- 3 - L2 (White Wire)

Generator Speed Tuning

NOTICE Generator speed tuning should only be done by an authorized LeeBoy Dealer.

A volt meter set to read frequency (Hz) can be used to test the speed of the generator. When the paver engine is at normal operating speed (approximately 1800 to 2200 RPM), the generator should operate at **58 Hz to 62 Hz**, or a speed of 3480 RPM to 3720 RPM. If generator speed drops below 3480 RPM, then voltage output and performance of the heating system will also decrease significantly.

NOTICE The generator should never be allowed to operate at a speed of 3800 RPM or greater. Generator damage will occur and may void your existing warranty. If your speed is above 3800 RPM, stop the generator set immediately.

NOTE: The generator and electrical system is designed to work within the range of 58 Hz to 62 Hz. It does not need to be set to exactly 60 Hz.

NOTE: When testing the generator speed, make certain that the paver engine is at normal operating speed (approximately 1800 to 2200 RPM) and the hydraulic temperature is at normal operating levels.

To Measure Generator Speed:

1. Remove back panel from generator housing to access the rear of the generator.
2. Use volt meter, set to read frequency (Hz), to measure between the two main input wires L1 and L2 (Figure 5-17).

NOTE: A photo tachometer may also be used to check the speed of the generator at the motor coupling by removing the motor coupling shield.

CAUTION Always replace shields and panels when finished testing.

3. Note that 60 Hz is exactly 3600 RPM. For every single Hz above 60 an increase of 60 RPM can be added to 3600 RPM. For every single Hz below 60 Hz a decrease of 60 RPM can be subtracted from 3600 RPM.

Example: 60 Hz is 3600 RPM. A reading of 62 Hz would be 3720 RPM. A reading of 58 Hz would be 3480 RPM.

NOTE: The integrated flow control manifold is pre-set and will maintain the generator at its proper speed if the correct amount of oil is supplied to the set. If the temperature of the hydraulic system rises above 160°F, some slippage may occur through the gear set of the generator motor, and the generator may slow slightly.

To Fine Tune Generator Speed:

There is a fine tune adjustment (Figure 5-18,1) provided on the top of the manifold. This adjustment will only effect the speed of the generator a small amount. The manifold should not be out of adjustment any more than 1/8 turn of this adjustment.

NOTICE Over adjustment will cause damage to the generator and void the warranty.

NOTICE Generator Speed should only be adjusted by an Authorized LeeBoy Dealer.

4. Locate the Fine Tune Adjuster (Figure 5-18,1) and turn to increase or decrease the speed as needed.

NOTE: Clockwise (CW) adjustment will slow the generator down.

Counterclockwise (CCW) adjustment will speed the generator up.



Figure 5-18. Generator Fine Tuning

1 - Fine Tune Adjuster

If your generator will not operate at the correct speed it may be necessary to test the hydraulic flow from the pump, or check the generator motor for excessive case drain flow. The case drain of the motor should not leak more than 1 gallon per minute. Replace the generator motor or paver pump if either are found to be operating incorrectly.

Generator Capacitor Replacement

The capacitor (**Figure 5-19,1**) located in the rear of the generator controls and regulates the voltage in the generator while in operation. If this capacitor fails, the voltage will drop to little or no output at all.

Replacing this capacitor with one of the same type and value will help determine if the capacitor is at fault.

To replace generator capacitor:

1. Ensure that the paver and generator engines are off.
2. Detach the wires at the top of the capacitor.
3. Remove the capacitor and replace with a new one of the same type and value.
4. Re-attach the leads at the top of the capacitor.

There are no other voltage adjustments that can be made to the generator.

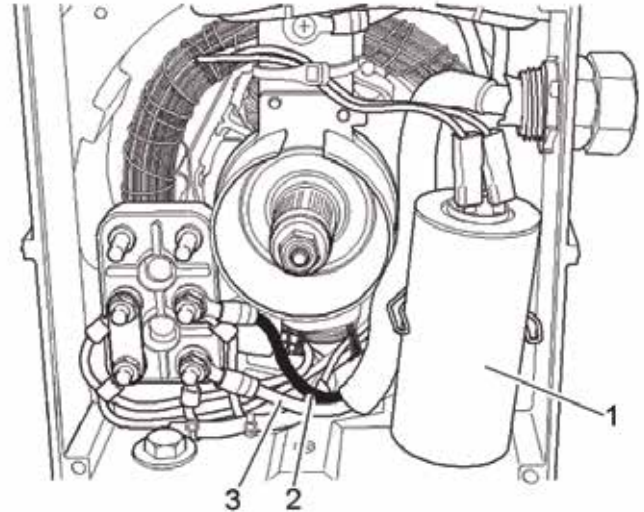


Figure 5-19. Generator Testing View

1 - Capacitor

2 - L1 (Black Wire)

3 - L2 (White Wire)

Element Relay Testing

The element relays are 12VDC controlled, and have dual contacts rated for 240VAC.

To test element relay:

1. Disconnect any wires to the relay, or completely remove it from the control box (**Figure 5-20**).

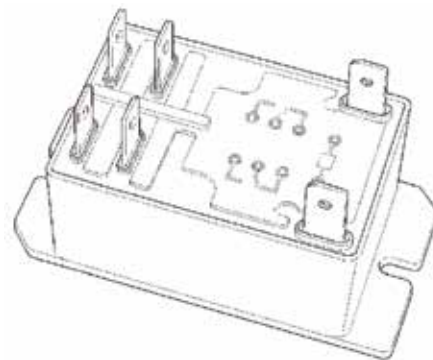


Figure 5-20. Relay

Place the leads of an ohm meter, or continuity tester across the contact terminals (2 to 4) or (6 to 8) as shown in (**Figure 5-21; Figure 5-22**).

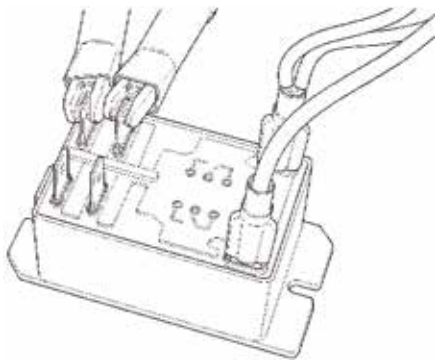


Figure 5-21. First Terminal Set Testing

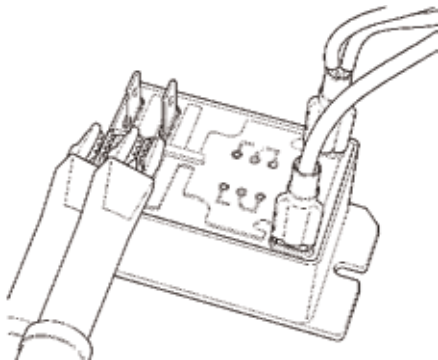


Figure 5-22. Second Terminal Set Testing

NOTE: Without 12VDC applied to the coil of the relay, the contact terminals should have no continuity through them. The contacts should be “open”. If the contacts are closed, and you do not have 12 VDC applied to the coil of the relay, your contacts are not correct, and the relay should be replaced.

2. With the ohm meter still on the contact terminals, apply 12VDC to the coil terminals of the relay (**Figure 5-20**).

NOTE: The contact terminals should now close and show a path through them for the power to be applied to the electrical elements. If the relay does not work as described above, it may be faulty, and should be replaced.

Element Resistance Testing

When a breaker in the control box has tripped, it must be assumed that there may be a problem with wiring or an actual element in the circuit.

Elements used to heat the screed are sized depending on how much area and material they are required to heat. The actual resistance of the element will vary depending on what wattage the element is in the specific application.

To know that the element is correct, you should read a resistance between **28 ohms and 60 ohms**. If the element is bad, the reading will be very different from this range. The element that is bad will most likely read “open” or it will read very little resistance (less than 1 ohm) and will indicate a short through the element.

To test element resistance:

1. Disconnect element one at a time from the connection point on the lower side of the control box.
2. Use an ohm meter and test the resistance through the element between the two pins in the plug at the end of the element cable (**Figure 5-23**).

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

3. Test between the two pins shown here with an ohm meter.
4. Test plug at end of element wires.
5. Before the element is plugged back in, check each wire (pin) with an ohm meter test lead, and place the other lead on a bare steel section of the screed frame. If there is any continuity through the element to the frame, the element is bad and must be left disconnected or replaced.

WARNING Fire Hazard! Do not attempt to operate an element with a known short. Replace faulty elements and wiring before using.

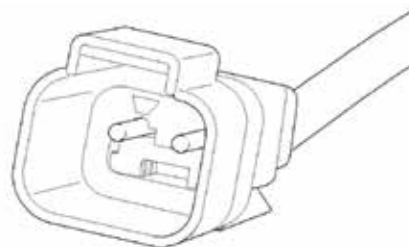


Figure 5-23. Element Plug End

Battery Servicing

WARNING Burn Hazard! Batteries contain sulfuric acid.

- NEVER allow battery fluid to come in contact with clothing, skin or eyes. Severe burns could result.
- ALWAYS wear safety goggles and protective clothing when servicing the battery.
- If battery fluid contacts the eyes and/or skin, immediately flush the affected areas with a large amount of clean water and obtain prompt medical treatment.

The paver electrical system is a 12 volt negative ground system. Keep sparks and flames away from the battery as electrolyte gas is highly flammable. The battery is located on the right side of the operator's platform behind the disconnect switch.

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

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

NOTICE Always turn the master battery switch off when working on the electrical system or welding on the LeeBoy Model 8515C Conveyor Paver. Damage to electrical components could result.

Before connecting the batteries, turn off the master switch, located underneath the main dash panel. Be certain that the terminals and battery posts are thoroughly cleaned and that the battery cable terminals are tight. Dirty or loose connections can create high electrical resistance and permit arcing.

NOTE: The electrical system is a 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.

Keep the battery clean by washing it off whenever dirt builds up is excessive. If corrosion is present around terminal connections, remove them and wash with ammonia solution or a solution consisting of 1/4 lb. (0.11 kg) baking soda added to one quart of warm water.

Make certain the vent caps are tight to prevent solution from entering the cells. After cleaning, pour clean water over the battery and surrounding area to wash the solution away. Check vent cap breather openings to make sure they are open.

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.

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.

The alternator supplies electrical current for charging the battery and ample electrical power to the electronic controls. The built-in regulator in the alternator controls the voltage output. If for any reason the wires must be disconnected from the alternator, mark them so that they can be reconnected properly. Use the following precautions to prevent damage to the alternator and/or regulator:

1. An alternator is never to be polarized. Never ground any alternator terminals or circuits.

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 could produce sparks.

2. Always disconnect the battery before disconnecting or connecting the alternator. Never disconnect the alternator with it operating. Be certain the wiring is properly connected before connecting the battery.
3. Always connect a booster battery in the proper polarity: negative (-) to negative (-) and positive (+) to positive (+).

WARNING When finished using the paver at the end of the day, ALWAYS turn the DISCONNECT switch to the "OFF" position. This will eliminate the possibility of fire due to battery or cable shorting.

ENGINE MAINTENANCE

General Information

The following engine maintenance information will cover the engine general maintenance procedures most often required.

For additional, very specific, engine maintenance information, see the current engine manual.

Engine Lubrication Oil - Kubota

Checking Engine Lubrication Oil Level

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.

To accurately check the engine lubrication oil level:

1. Park the LeeBoy Model 8515C Conveyor Paver in a “level” position and stop the engine.
2. Clean the area around the engine lubrication oil dipstick before removing the dipstick from the engine.

WARNING Stop the engine before checking the engine lubrication oil level. With the engine running, hot oil can be thrown causing serious injury.

3. Wait five minutes, after engine shutdown, before removing the dipstick from the engine and checking the oil level.

NOTE: The above procedure will help to remove the possibility of filling the engine with too much lubrication oil, by allowing the oil to return to the oil pan.

Changing Engine Lubrication Oil

The engine lubrication oil must be changed according to the interval given in the current Kubota Diesel engine operator’s manual.

NOTE: The color of the engine lubrication oil can not be used as an indication of the need for a engine lubrication oil change. The use of an engine lubrication oil “analysis service” is the only alternate reason for not following the required engine lubrication oil change schedule.

WARNING Do not change the engine lubrication oil when the engine and lubrication oil are hot. Change when warm only. Hot oil can cause serious injury.

NOTICE Do not change the engine lubrication oil with the engine “running”. Serious engine damage, or failure will occur. Clean the area around the engine lubrication oil dipstick and oil filler cap before removing the dipstick, or oil filler cap.

With the engine “stopped”, and the engine lubrication oil is “warm”, proceed as follows:

1. Clean the area around the engine lubrication oil drain plug found on the engine oil drain hose located on the right side of the paver.
2. Place a container, having a capacity sufficient to hold the drained oil, directly under the engine lubrication oil drain plug.
3. Using hose and fitting located on right-hand side of paver, drain all of the engine lubrication oil into the container.
4. Clean, install and carefully tighten the lubrication oil drain plug.

NOTICE Do not overtighten the drain plug.

5. Fill the engine with 15.0 qts (14.2 liters) of oil, using the correct engine lubrication oil (see “Lubricant Specifications” on page 2-10).
6. Install the engine lubrication oil dipstick.

NOTICE Do not start the engine before changing the engine lubrication oil filter. Follow the procedures given in this section and in the current Kubota engine manual.

Changing Engine Lubrication Oil Filter

The engine lubrication oil filter must be changed when the engine lubrication oil is changed (see “Changing Engine Lubrication Oil” on page 5-22).

WARNING Do not change the engine lubrication oil when the engine and lubrication oil are hot. Change when warm only. Hot oil can cause serious injury.

NOTICE Do not change the engine lubrication oil filter with the engine running. Serious engine damage, or failure, will occur.

With the engine “stopped” and filled with new engine lubrication oil, proceed as follows:

1. Wipe the area around the engine lubrication oil filter element and its mounting base, with a clean cloth.
2. Place a container under the filter element.
3. Use a filter removal wrench to loosen and remove the filter element by turning it in a counterclockwise (CCW) direction of rotation. Drain and discard the removed filter element.

NOTE: Be sure the used rubber gasket is removed and discarded with the filter element.

NOTE: Consider the environment when discarding used oil and do so according to safe and lawful practices.

4. Wipe the inside area of the lubrication oil filter head using a clean lint free cloth.
5. Put clean engine lubrication oil on the rubber gasket area of the new filter element. Fill the new filter element with correct, new, and clean oil.
6. Install the new filter element onto the filter head. Carefully tighten the filter element, by hand only.

NOTE: Tighten the filter element as directed on the filter element, by the filter manufacturer.

FUEL SYSTEM

Fuel Tank

The fuel level is indicated on the dash panel FUEL gauge and indicates the amount of fuel in the tank. Fill the fuel tank “FULL”.

NOTE: Fill the tank, to “FULL” before the paver is stored for the night to reduce the accumulation of moisture, in the tank, from condensation.

WARNING The operator must be off of the paver while fuel is added. No smoking while filling the fuel tank. All fuels for internal combustion engines are flammable. Fill the fuel tank only in a designated area with good ventilation. Have a fire extinguisher available.

WARNING Never fill the tank near an open flame, or near equipment that can create sparks. Never check fuel level or check for fuel leaks with an open flame.

Engine Fuel Filters

The fuel filter element must be replaced as directed in the current engine operator's manual. Replace the fuel filter using the following "general" procedure and specific information given in the current engine operator's manual.

WARNING Diesel fuel is very flammable. Use extra caution.

Do not change the fuel filter with the paver running.

Do not change the fuel filter in an area near an open flame. Do not smoke while changing the fuel filter.

Do not spill fuel.

1. Stop the engine.
2. Put a container under the fuel filter, before removing the filter element.

NOTE: Consider the environment when discarding used oil and do so according to safe and lawful practices.

3. Wipe the area around the fuel filter element and the element mounting head, using a clean lint free cloth.
4. Use a filter removal wrench to loosen and remove the element, by turning the element in a clockwise direction. Drain and discard the removed element.
5. Wipe the inside area of the filter head with a clean "lint free" cloth. Fill the "new" fuel filter element completely full of the correct and clean fuel.
6. Put clean fuel on the element rubber gasket.
7. Install the "new" fuel filter element onto the filter head. Carefully tighten the element by hand only.

NOTICE Tighten the fuel strainer or the fuel filter element as directed on the filter element, by the filter manufacturer. Do not overtighten the fuel filter element onto the filter head.

8. Start the engine and check for ANY fuel leaks.

WARNING Stop the engine immediately if any fuel leakage is noted. Do not start the engine until the leakage problem is corrected.

Engine Air Filter

The engine inlet air filter assembly uses a replaceable filter element.

NOTICE The air filter element should be replaced one time for each 100 hours of paver operation, or monthly, for a paver which is operated under "normal" conditions, or more often for a paver that is operated under "very severe conditions. Never operate the engine without an air cleaner element installed.

Do not service the air cleaner element while the engine is "running".

Use the following procedures to service the air cleaner element:

1. Remove the two screws and plate securing each air filter cover over the air filters at the top of the engine.
2. Remove the air filter covers.
3. Remove the air filter elements from the engine and discard.
4. Clean the inside of the air cleaner body with a clean cloth.

NOTICE Severe engine damage can occur if engine is operated without air filter properly installed.

5. Carefully install the new air filter elements into the intake at the top of the engine.
6. Install the covers over the filters.
7. Secure each cover with the two screws and plate.
8. Start the engine using all the correct starting procedures (see "Starting the Engine" on page 4-5).
9. Check that engine runs smoothly.

HYDRAULIC SYSTEM

General Information

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

Checking Hydraulic Oil Level

Check the hydraulic reservoir oil level, one time each day, by looking at the sight gauge on the reservoir. Check the oil level when the hydraulic oil is at “normal” operating temperature only.

WARNING Do not loosen, or remove, the hydraulic oil reservoir filler cap when the hydraulic oil is “HOT”. always loosen the filler cap slowly to relieve any pressure in the hydraulic oil reservoir.

WARNING Only loosen the filler cap when the oil is at a “WARM” temperature.

Adding Hydraulic Oil To Hydraulic Oil Reservoir

The hydraulic reservoir oil level must be visible in the sight gauge **1 - Sight Gauge (Oil Level/Temperature) (Figure 5-24,1)** to be at the correct level. If the hydraulic oil level is below the sight gauge, the correct, filtered hydraulic oil (see “**Lubricant Specifications**” on page 2-10) must be added to the hydraulic oil reservoir until the oil level is shown to be full in the sight gauge.

WARNING Do not remove the hydraulic filler cap from the reservoir when it is “HOT”. Hot hydraulic oil can cause serious injury. Allow hydraulic oil to cool down to a warm temperature.

1. Unscrew hydraulic oil tank filler cap (Figure 5-24,2).

NOTICE Do not over fill the hydraulic oil reservoir.

2. Add needed amount of new, filtered hydraulic oil (see “**Lubricant Specifications**” on page 2-10).
3. Keep the oil level of the hydraulic oil reservoir at the correct level.

NOTE: An air space is designed into the hydraulic oil reservoir and allows for oil expansion, at warm temperatures. The hydraulic oil reservoir will have a low pressure in it at system operating temperatures.

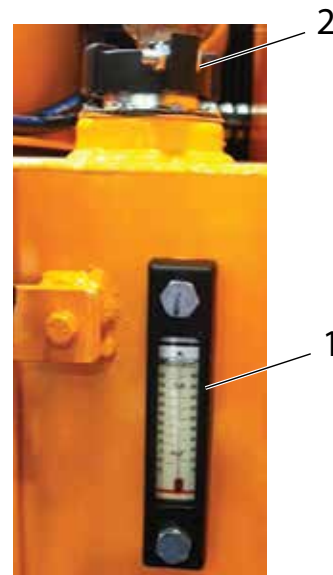


Figure 5-24. Hydraulic Oil Tank

- 1 - Sight Gauge (Oil Level/Temperature)
- 2 - Filler Cap

Changing Hydraulic Oil

Changing the hydraulic oil removes the accumulation of dirt, water and mechanical wear particles from the hydraulic oil reservoir and system. The chemical structure of the hydraulic oil also changes after continuous use in the system and new, clean, and filtered oil (see “**Lubricant Specifications**” on page 2-10) is a must to help insure further correct operation of the hydraulic system.

NOTICE Hydraulic oil which has oxidized or which contains contamination, of any type, can shorten the expected service life of any, or all, of the components in the hydraulic system.

Use the following procedures to change the hydraulic oil in the hydraulic oil tank (Figure 5-24).

1. Stop the engine. Allow the hydraulic oil to cool, until it is at a warm temperature only. Slowly loosen, and then remove, the hydraulic oil reservoir filler cap (Figure 5-24,2). Put a CLEAN, lint free cloth over the reservoir fill tube opening and secure in place with tape.

WARNING Do not drain the hydraulic oil from the reservoir when it is “HOT”. Hot hydraulic oil can cause serious injury. Drain at a warm temperature only.

NOTE: All reservoir tanks together plus hoses hold approximately 40 gallons (see “Lubricant Specifications” on page 2-10).

2. Carefully remove the plugs from the hydraulic tanks. Use a drain collection device, of sufficient capacity to collect the hydraulic oil. Allow all of the hydraulic oil to drain from the reservoirs and into the container.

NOTICE Do not fill the hydraulic oil reservoir with new hydraulic oil until the strainer has been serviced.

3. Install the hydraulic oil reservoir drain plug, and tighten securely.
4. Carefully remove the cloth from the hydraulic oil reservoir fill tube opening.
5. To be sure the bottom oil tank is properly filled, proceed as follows:
 - a. Remove the strainer on the top tank.
 - b. Fill the top hydraulic oil tank with the correct, filtered hydraulic oil until tank is full.
 - c. Crank engine and let pump transfer oil from top tank to bottom tank.
 - d. Monitor oil level in top tank. When oil level is below one-half full, shut off engine and refill top tank.
 - e. Repeat this process until proper level is obtained.

NOTICE Do not overfill the hydraulic oil reservoir with oil.

NOTICE Never let tank run dry. Pump damage will occur.

6. Check the oil level in the hydraulic oil reservoir, again. Add oil if needed.
7. Install the hydraulic oil reservoir filler cap onto the reservoir filler neck and tighten securely.
8. Start the engine using the correct procedures (see “Starting the Engine” on page 4-5).
9. Check the hydraulic system for any leaks.

WARNING Do not use the hands on any hydraulic hose, fitting or system component to check the system for possible leaks. Serious 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.

REMOVAL & INSTALLATION PROCEDURES

Track Component Replacement Idler

1. Raise conveyor and insert safety prop (see “Raising Conveyor” on page 5-11).
2. Locate track tension manifold (Figure 7-1,43), then back the relief cartridge out of the aluminum block about three turns or until you hear the tension pressure release.

NOTE: The following step is for poly/steel tracks only.

3. Rotate track so that the master link is at the rear bottom of the front idler (Figure 7-1,14), then remove the master pin (Figure 7-1,28). Once master pin is removed, back up the paver until the track clears the front idler.
4. Jack up the paver on the side needing to be repaired.

WARNING Crush Hazard! Machine may fall off jack and cause personal injury. Always use safety blocking in addition to jack when working under paver.

5. Remove the clip pin from the cylinder rod and idler bracket.
6. The idler will slide straight out.
7. Remove idler bracket and bolt to new idler.
8. Install idler making sure cylinder and clip pin are in correct position.
9. Lower sprocket back down toward track chain, keeping sprocket about 1 in. (2.54 cm) out of chain.

NOTE: The following step is for poly/steel tracks only.

10. Check that track chain is fully seated with drive sprocket and rollers are aligned with chain center.
11. Tighten tension relief back in.
12. Lower paver to ground, remove jack and start machine.

NOTE: Track tension will automatically adjust when machine is started.

13. Ensure that track chain remains fully seated with drive sprocket and rollers are still aligned with chain center.

Cylinder

1. Raise conveyor and insert safety prop (see “Raising Conveyor” on page 5-11).
2. Locate the track tension manifold (Figure 7-1,43). Then, back the relief cartridge out of the aluminum block about three turns, or until you hear the tension pressure release.

NOTE: The following step is for poly/steel tracks only.

3. Rotate the track so that the master link is at the rear bottom of the front idle (Figure 7-1,14). Then remove the master pin (Figure 7-1,28). Once the master pin is removed, back the paver until the track clears the front idler.
4. Jack up the paver on the side needing to be repaired and remove the front track roller.

WARNING Crush Hazard! Machine may fall off jack and cause personal injury. Always use safety blocking in addition to jack when working under paver.

5. Remove the clip pin from the cylinder rod and the idler bracket.
6. The idler will slide straight out at this time.
7. Grab the cylinder and pull it toward the front so that you can remove the hose from the cylinder bottom.
8. Replace the cylinder or repack the seal kit and install in paver.
9. Install the idler making sure the cylinder and the clip pin are in correct position.
10. Lower sprocket back down toward track chain, keeping sprocket about 1 in. (2.54 cm) out of chain.
11. Check that track chain is fully seated with drive sprocket and rollers are aligned with chain center.
12. Tighten tension relief back in.

13. Lower paver to ground, remove jack and start machine.

NOTE: Track tension will automatically adjust when machine is started.

14. Ensure that track chain remains fully seated with drive sprocket and rollers are still aligned with chain center.

Rollers

1. Raise conveyor and insert safety prop (see “Raising Conveyor” on page 5-11).
2. Locate the track tension manifold (Figure 7-1,43). Then back the relief cartridge out of the aluminum block about 3 turns or until you hear the tension pressure release.
3. Jack the paver up on the side needing the repair.

WARNING Crush Hazard! Machine may fall off jack and cause personal injury. Always use safety blocking in addition to jack when working under paver.

4. Remove the rollers that are faulty and replace them with new ones. Torque bolts to 90 ft. lbs. (122 N•m).
5. Check that track chain is fully seated with drive sprocket and rollers are aligned with chain center.
6. Tighten tension relief back in.
7. Lower paver to ground, remove jack and start machine.

NOTE: Track tension will automatically adjust when machine is started.

8. Ensure that track chain remains fully seated with drive sprocket and rollers are still aligned with chain center.

Sprockets

1. Raise conveyor and insert safety prop (see **“Raising Conveyor”** on page 5-11).
2. Locate track tension manifold (**Figure 7-1,43**), then back the relief cartridge out of the aluminum block about three turns or until you hear the tension pressure release.

NOTE: The following step is for poly/steel tracks only.

3. Rotate track so that the master link is at the rear bottom of the front idler (**Figure 7-1,4**), then remove the master pin (**Figure 7-1,28**). Once master pin is removed, back up the paver until the track clears the front idler.
4. Jack up the paver on the side needing to be repaired.

 **WARNING** **Crush Hazard! Machine may fall off jack and cause personal injury. Always use safety blocking in addition to jack when working under paver.**

5. Remove Rear Track Roller.
6. Remove bolts from Sprocket and replace Sprocket.
7. Apply thread lock (Loctite) to bolts and torque to proper specification.
8. Lower sprocket back down toward track chain, keeping sprocket about 1 in. (2.54 cm) out of chain.

NOTE: The following step is for poly/steel tracks only.

9. Pull track to front of paver so that track laying on ground can be hooked on to, then reverse sprocket to rotate track to top so that master pin (**Figure 7-1,28**) will go in at rear of idler (**Figure 7-1,14**)
10. Tighten tension relief, start paver, and rotate the track to make sure it is OK. When finished remove the jack.

Rubber Track Replacement

Removal

1. Raise conveyor and insert safety prop (see **“Raising Conveyor”** on page 5-11).
2. Jack paver off ground 24 in (61 cm) so that complete undercarriage has enough clearance to come out and properly support paver.
3. Loosen track tension cartridge at manifold located at rear of bottom hydraulic tank (**Figure 7-4,16**).
4. Label and disconnect the track tension hoses from undercarriage at track tension manifold .
5. Cap and plug all the hoses.
6. Remove generator cord at generator if removing left undercarriage (Electric Heat only).
7. Remove the two (2) bolts (**Figure 7-2,23**) holding the drive motor (**Figure 7-2,3**) to the torque hub (**Figure 7-2,4**) and leave on paver.
8. Support the undercarriage (**Figure 7-2**) with a forklift or jack before lowering to ground.
9. Unbolt the 2 trunnions (**Figure 7-2**) on the front of track undercarriage and stops at rear of undercarriage from each side.
10. Lower the whole track assembly (**Figure 7-2**) down and lay on side.
11. Remove rubber track (**Figure 7-2,12**) by prying from idler end first.

NOTE: At this time Idler, Torque Hub, Sprocket, Rollers, and Cylinder should be replaced if needed. Undercarriage must be lowered before replacing above components except Rollers.

Installation

1. Replace any worn or broken components if needed.
2. Install the new rubber track (**Figure 7-2,12**) where old one was removed starting at sprocket end first.
3. Raise undercarriage into paver and place trunnions and rear stops. Remove jack or lifting device.
4. Check O-ring, replace if worn. Reinstall the motor (**Figure 7-2,3**) and torque the bolts (**Figure 7-2,23**) to proper specs.
5. Connect track tension hoses to manifold and tighten track tension cartridge back down.
6. Connect generator cord to generator (Electric Heat only).
7. Fill torque hub with specified oil (see “100-Hour or Monthly Routine Maintenance” on page 5-8).
8. Lower paver to ground.

NOTICE Make sure hose connections are clean before removing and also before installing.

9. Lower conveyor and bolt hopper wings down.
10. Run paver and check for any leaks.

Torque Hub Replacement

Removal

1. Raise conveyor and insert safety prop (see “Raising Conveyor” on page 5-11).
2. Loosen track tension cartridge in manifold (located on rear of bottom hydraulic tank) until pressure leaks off.
3. Remove master pin in track chain behind front idler on bottom side.
4. Back paver up until track lays flat on ground.
5. Jack paver up approximately 24 in (61 cm) off ground and place on sturdy jack stands.
6. Remove the two cap screws (**Figure 7-1,47**) and lock washers (**Figure 7-1,48**) attaching the hydraulic drive motor (**Figure 7-1,44**) to the torque hub drive (**Figure 7-1,4**).

NOTE: Do not disconnect hoses from the hydraulic drive motor. Hoses are long enough to slide motor out and place out of way.

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

NOTE: Sprocket can be removed at this time before torque hub is taken out by removing bolts in sprocket and removing track roller.

7. Remove bolts holding torque hub to track undercarriage.

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

Installation

1. Install torque hub in proper position for drive motor to line up.
2. Place thread-locking adhesive on torque hub bolts and torque all bolts to specification (see “Torque Specifications For Standard Inch Fasteners” on page 2-12).
3. Check O-ring on drive motor, replace if worn. Bolt drive motor to torque hub.
4. Place thread-locking adhesive on sprocket bolts and torque all bolts to specification (see “Torque Specifications For Standard Inch Fasteners” on page 2-12).
5. Reinstall rear track roller if previously removed.
6. Fill torque hub with specified oil (see “Raising Conveyor” on page 5-11).
7. 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 idler rear.

8. Tighten track tension cartridge down.
9. Lower paver to ground.

NOTICE Make sure hose connections are clean before removing and also before installing.

10. Lower conveyor and bolt hopper wings down.
11. Run paver and check for any leaks.

WARNING Do not use the hands on any hydraulic hose, fitting or system component to check the system for possible leaks. Serious 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.

12. Start the engine using the correct procedures (see “Starting the Engine” on page 4-5).
13. Check the hydraulic system for any leaks.

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

Rear Conveyor Shaft Replacement

Removal

1. Rotate flight chains (**Figure 7-3,2**) until C-188 master pin (**Figure 7-3,15**) is located. When located, rotate the master pin to the rear of the conveyor drive sprocket.

NOTE: If the shaft (**Figure 7-3,8**) is broken, the front shield with rubber needs to be removed, then push against the outer edge of the conveyor bars to make the chains rotate.

2. Remove grating walkway from paver so that you can reach in to the center of conveyor at rear, or lay in under engine platform to reach center.
3. Push back the rubber shield at the center of the conveyor at the rear so that the snap ring (**Figure 7-3,9**) can be removed off the shaft.
4. Run screed extension out fully on side to be changed.

NOTE: The front screed arm bolt may need to be removed to tilt arm out of the way.

5. Remove the chain guard and 80 chain that drives the conveyor.

NOTE: The flight chains can be loosened to allow the shaft to come out easier.

6. Remove capscrew (**Figure 7-3,1**) and countersunk washer (**Figure 7-3,2**) then remove the outer 80 drive sprocket (**Figure 7-3,3**).
7. Remove the four capscrews (**Figure 7-3,10**) and washers (**Figure 7-3,11**), then remove conveyor mounting plate with bearing (**Figure 7-3,4**).

NOTE: Do not remove the master pin on the inner C-188 chain. Let the sprocket and chain stay together.

8. Remove C-188 master link (**13**) and lay the chain away from the sprocket on the outer side.
9. The rear shaft (**Figure 7-3,8**) and outer C-188 sprocket (**Figure 7-3,5**) will pull straight out at this time.

Installation

1. Slide the new shaft (**Figure 7-3,8**) in and align the inner C-188 sprocket (**Figure 7-3,6**) onto the spline shaft.
2. Install the snap ring (**Figure 7-3,9**) on and fasten the rubber shield back.
3. Install the outer C-188 sprocket (**Figure 7-3,5**), be sure that the teeth are in line with the inner C-188 sprocket.
4. Install the pivot bearing plate (**Figure 7-3,4**) using the four capscrews (**Figure 7-3,10**) and lockwashers (**Figure 7-3,11**).
5. Apply thread-locking adhesive on taper head bolt (**Figure 7-3,1**).
6. Attach the outer drive sprocket (**Figure 7-3,3**) with taper headed bolt (**Figure 7-3,1**) and countersunk washer (**Figure 7-3,2**).
7. Put 80 chain on and lubricate the chain.
8. Adjust chain for about 1/4 in. (0.64 cm) play.
9. Place chain guard back on.
10. Hook screed arm in place.
11. Adjust main flight chains and let the conveyors run for a short period of time. Then recheck the chain adjustment.
12. Place grating back on when finished.

NOTE: Conveyors should be adjusted about every 100 hours to avoid damage to the conveyor rear shafts and the chains.

NOTE: Keep the conveyors clean and well lubricated.

NOTE: If the conveyor or flight chains are adjusted all the way out, locate the master link and remove it. Remove 1 block link and 2 sidebars on each chain, then replace with C-188 1/2 links. (There is not enough room to take a link out without installing a 1/2 link back).

Auger And Inner Bearing Replacement

Removal

1. Remove rear grating over auger assembly.
2. Run screed extension all the way out.

NOTE: This provides room to stand in behind auger back to remove top portion of auger cover. Auger cover is in three pieces with a small tack to hold cover together while building.

3. Remove four nuts holding cover (**Figure 7-5,1**) on and pry cover apart.
4. Clean asphalt build up from around cover.

NOTE: Heating asphalt may be required.

5. Remove middle and bottom portion of cover by laying on conveyor under engine.
6. Rotate augers so that master link is centered at front.
7. Loosen auger chains by sliding auger motors (**Figure 7-5,4**) down from backside after loosening the two bolts securing mounting brackets (**Figure 7-5,5**).
8. Remove auger end mounts (**Figure 7-5,8,9**) so that augers can be removed through opening in sides.
9. Remove augers (**Figure 7-5,15,16**) and lay augers on the ground in the same position as removed. This will help insure proper installation of the new augers.
10. Check inner auger bearing (**Figure 7-5,12**) and replace at this time if faulty.

Installation

NOTE: When installing the new augers be sure to align augers the same as the removed augers. It is very easy to install augers backwards.

1. Install new augers (**Figure 7-5,15,16**) making sure that they are on correct side to auger material outward.
2. Tighten bearing setscrew to help hold auger shaft from moving outward.
3. Slide auger collar (**Figure 7-5,6**) on end of auger shaft and bolt end mount (**Figure 7-5,8,9**) back on. Torque mounting screws to 78 ft. lbs. (106 N•m)
4. Push collar (**Figure 7-5,11**) all the way in against end mount (**Figure 7-5,8,9**) and attach with setscrews (four setscrews, two on outside and two on inside).

5. Replace bronze bushing (**Figure 7-5,7**) in the end mounts.
6. Place auger chains back on and adjust auger motors(**Figure 7-5,4**) up to tighten chains. Use adjusting bolt to tighten motor, then snug bottom motor mount bolts (make sure chains have approximately 1/4" of slack).
7. Make sure motor is level then tighten top and bottom bolts to a torque of 150 ft. lbs. (155 N•m). Do the same for the other side.
8. Lubricate chains.
9. Place auger cover (**Figure 7-5,1**) back in place making sure slot for auger shaft is sealed shut.
10. Place grating back on over auger.
11. Run augers and make sure everything is correct.

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

Screed Extensions, Slides Or Bushing Replacement

NOTE: When replacing bushings, the bushings need to be honed if 1-1/2" rods (**Figure 7-38,4**) do not slide in.

Removal

1. Remove cylinder covers (**Figure 7-28,19,20**).
2. Run screed extension out completely.
3. Remove cylinder pin (**Figure 7-48,6**).
4. Remove the four 1/2" bolts (**Figure 7-38,9**) lock washers (**Figure 7-38,8**), and flat washers (**Figure 7-38,7**) in extension rods (**Figure 7-38,6**) holding the extension on.
5. After bolts have been removed, pull extension out of the way.
6. Pull 1-1/2" rods (**Figure 7-38,6**) out of slide (**Figure 7-38,2**).
7. Loosen five bolts (**Figure 7-28,21**) attaching top guide (**Figure 7-28,17**). This will let main slide (**Figure 7-38,2**) come out easily. At this time bushings (**Figure 7-38,4**) can be replaced or main slide can be replaced.

Installation

1. Clean area where slides (**Figure 7-38,2**) are installed, and lubricate before reinstalling the slide.
2. Loosen guide (**Figure 7-38,17**) and drive guide down tight against slide by using allen set screws.
3. Slide 1-1/2" rods (**Figure 7-38,6**) back into slide (**Figure 7-38,2**).
4. Secure rods (**Figure 7-38,6**) with capscrew (**Figure 7-38,9**) lockwasher (**Figure 7-38,8**), and flat washers (**Figure 7-38,7**).
5. Make sure extension is mounted flush with bottom of screed plate.
6. Hook cylinders (**Figure 7-48,1,2**) back to extensions using pin (**Figure 7-48,6**) and put cylinder cover (**Figure 7-28,19,20**) back on.
7. Run extension out and grease the extension well before operating "in" and "out".

Screed Wear Plate Replacement

Removal

1. Run screed extension all the way in.
2. Remove the cylinder covers, (**Figure 7-28,19,20**) the walk boards (**Figure 7-37,1**), and the screed lids (**Figure 7-28,7**).

NOTE: For electrically heated screed, remove all wiring and heating elements.

3. Remove the twenty-four (24) 3/8" bolts holding the wear plate (**Figure 7-28,13**) to the screed frame on each side.
4. Clamp the center portion of the screed frame so that when the screed frame is raised up off the worn wear plate the clamp will hold the frame in place.
5. Raise the screed up and remove the worn wear plate.
6. Clean all material buildup from the screed frame before bolting in the new wear plate.

Installation

1. Set the new wear plate down level on 3 blocks, placing one block in the center and one at each end. Make certain the extensions are raised all the way up to prevent extensions from holding the screed frame off the wear plate.

2. Lower the screed frame down on the new wear plate.

NOTE: Do not tighten the bolts in the next step until all the bolts are installed.

3. Install five bolts in one side at the front to hold the wear plate.
4. Loosen the vibrator on the slotted side and 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.
5. Once the front bolts are installed install the rear bolts.
6. When all of the bolts have been started make sure the screed frame and the wear plate are flat.
7. Torque bolts to 55 ft. lbs. (74 N•m). Start inside and move outward by rotating from the left to the right side. This will keep the screed relaxed.

NOTE: Install all wiring and elements if electric.

8. Place the screed lids, the walk boards and the cylinder covers back on the screed.

Extension Wear Plate Replacement

Removal

1. Run the extensions all the way out.
2. Remove the endgates by removing the tilt screw and 7/8" nut on each side. The endgate will tilt forward out of the holder and slide off the 7/8" bolt.
3. Disconnect the extension adjuster (**Figure 7-29,4**) from the wear plate (**Figure 7-29,2**), by removing locknut, washer, and shoulder bolt (**Figure 7-29,6**).
4. Remove the front extension hinge shield (**Figure 7-29,16**).

NOTE: For electrically heated screed, remove all wiring and heating elements.

5. Slide the hinge pin (**Figure 7-29,8**) out and the wear plate (**Figure 7-29, 2**) will fall off.

Installation

1. Hold the new wear plate (**Figure 7-29,2**) in place and slide the hinge pin (**Figure 7-29,8**) in place.
2. Fasten the extension adjuster (**Figure 7-29,4**) back to the wear plate (**Figure 7-29,2**) with locknut, washer, and shoulder bolt (**Figure 7-29,6**).

NOTE: Install all wiring and elements if electric.


3. Put the front hinge shield (**Figure 7-29,16**) back on.
4. Install endgate and tilt screw back on the paver.

Tandem Servo Pump Replacement

Removal

1. Remove the right side cover.
2. Remove the right side access door cover.
3. Remove the top right side cover and right side cover.
4. Label and disconnect the hoses to the tandem propulsion hydraulic pump, plugging the hoses and capping the fitting on the hydraulic pump.
5. Label and disconnect the hoses to the tandem auxiliary hydraulic pump, plugging the hoses and capping the fitting on the hydraulic pump.

NOTE: If Tandem Auxiliary Pump is functioning properly leave hoses attached and slide out of Main Pump.

 **CAUTION** Pump assembly is very heavy and must be properly supported with a sling before loosening mounting bolts.

6. Place a sling around the pump assembly to provide support.
7. Remove the two screws attaching pump assembly to the pump plate cover.
8. Slide the pump assembly out of the splined coupling.
9. Using the sling, lift pump assembly with auxiliary pump assembly out of paver and place on a flat surface.

5

Auxiliary Pump (if necessary)

NOTE: This pump stays on machine while changing Servo Pump. Do not disconnect hoses.

10. Remove the two screws attaching the tandem auxiliary hydraulic pump to the tandem propulsion hydraulic pump.
11. Remove the O-ring from between the pumps.

Installation (if Auxiliary Pump was removed)

NOTE: (If auxiliary pump was removed.)

1. Place a small amount of hydraulic oil on the O-ring and install O-ring between the pumps.
2. Carefully support auxiliary pump and align the mounting holes in the auxiliary pump with the mounting on pump.
3. Attach the pumps with the two mounting screws.
4. Torque the screws to 89 ft. lbs. (121 N•m).

⚠ CAUTION Pump assembly is very heavy and must be properly supported with a sling before loosening mounting bolts.

5. Support the complete pump assembly with a sling and lift assembly into paver.
6. Carefully slide pump assembly into splined coupling and align mounting holes with the pump plate cover mounting holes (grease splines before installing).
7. Attach the pumps with the two mounting screws.
8. Torque the screws to 89 ft. lbs. (121 N•m).
9. Remove plugs and caps and connect hydraulic hoses to pumps as previously labeled.
10. Check hydraulic oil level in tank and add hydraulic oil if necessary.
11. Install the right side cover.
12. Install the right side access door cover.
13. Install the top right side cover and right side cover.
14. Install the spray hose assembly on the top right side cover.
15. Start the paver (see “Starting the Engine” on page 4-5).
16. Check to be sure there is no hydraulic oil leaks.
17. Let machine idle for approximately 10 minutes before operating. This will allow pump and motor cases to fill with oil and ensure pumps are not damaged.

2-Speed Hydraulic Motor Replacement

Removal

1. Turn the paver off.
2. Check to be sure there is no hydraulic pressure.
3. Label and disconnect the hoses to the hydraulic motor (Figure 7-1,44).
4. Plug the hoses and cap the fitting on the hydraulic motor.
5. Support hydraulic motor, then remove the two screws (Figure 7-1, 47) and lockwashers (Figure 7-1, 48) attaching the hydraulic motor to the torque hub and carefully remove the motor from the torque hub.
6. Remove the O-ring (Figure 7-1,46).
7. Drain the hydraulic oil from the hydraulic motor. Discard or repair the hydraulic motor as appropriate.

Installation

1. Lubricate a new O-ring (Figure 7-1,46) with hydraulic oil and install on torque hub.
2. Attach hydraulic motor to torque hub using two capscrews (Figure 7-1,47) and lockwashers (Figure 7-1,48).
3. Torque capscrews (Figure 7-1,47) to 120 ft. lbs (163 N•m).
4. Remove plugs from hydraulic hoses and connect the hydraulic hoses in accordance with the labels.
5. Operate paver and check for leaks.

NOTE: When installing motor dry, crank and let run for approximately 10 minutes to work air out of system before engaging to move.

Safety Label Installation

Anytime the LeeBoy Model 8515C Conveyor Paver has been repainted or the safety labels have been removed, damaged or can't be read, a new set of labels should be ordered and reinstalled for safe operation (**see “Safety Label Locations” on page 1-6**).

1. Be sure that the installation area is clean and dry. Use hot soapy water and dry the area thoroughly before installing decals.
2. Determine the exact position by taking measurements and test fitting before you remove the backing paper.
3. For safety labels with no top protection paper, determine the label location and remove the smallest portion of the split backing paper.
4. Align the label over the specified area and carefully press the small portion with the exposed adhesive backing into place.
5. Peel back the remaining paper and carefully smooth the remaining portion of the label in place.
6. Small air pockets can be pierced with a pin and smoothed out using the piece of label backing paper.
7. If the label has a protective top paper, use hot soapy water on the surface to which the label is being applied. Leave wet. After determining the location, remove the backing paper and soak the label in clean soapy water before application. This will help prevent air bubbles in the finished label.
8. Smooth the label into place with a sponge and check for air bubbles. Small air pockets may be pierced with a pin and smoothed out. When the label is completely smoothed out, carefully remove the top paper.

TROUBLESHOOTING CHARTS

The troubleshooting charts below identify the most common symptoms of failure. Use these charts to help identify the failed component and possible remedies.

If the problem persists, see your authorized LeeBoy Dealer. See “**Contact Information**” on page 2-4.

Electric Screed

Table 8-1. Electric Screed Troubleshooting

SYMPTOM	CAUSE	REMEDY
Electric Screed heating system will not operate at all.	Control box power switch not in ON position.	Ensure that the screed control box power switch is ON.
	Breakers are in a tripped position with no breakers showing a tripped condition.	Ensure all element breakers are in their “set” position with no breakers showing a tripped condition.
	Engine not operating at proper throttle.	Ensure the paver is running. Set the throttle on the paver to full engine RPM. NOTE: Throttle positions less than full will still produce screed heat, but at a drastically reduced rate and temperature.
	Generator malfunction.	See generator voltage testing.
Electric Screed heats, but one screed section does not.	Screed section not plugged into bottom of control box out puts.	Ensure the screed not heating is plugged into the bottom of the control box out puts.
	Element breakers for screed section in a tripped condition.	Ensure the element breakers for that screed section are not tripped.
	Faulty element relay.	See “ Element Relay Testing ” on page 5-19 or “ Element Resistance Testing ” on page 5-20.
When starting the electric heat system, it will not stay running long, or at all.	Heat system timed out.	See Testing system timer.
Electric Screed is heating, but never gets hot enough to pave.	Engine not operating at proper throttle.	Ensure the paver is running. Set the throttle on the paver to full engine RPM. NOTE: Throttle positions less than full will still produce screed heat, but at a drastically reduced rate and temperature.
	Elements improperly clamped.	Go over proper element installation procedures, and ensure elements are clamped properly.
	Generator malfunction.	See Generator speed tuning. See Generator voltage testing.
Electric heating system seems to be working, but the light isn’t on.	HEAT ON light is burned out.	Replace the HEAT ON light.
Elements have been tested but the breaker still trips.	Faulty element wiring.	Test or inspect element wiring.
	Faulty breaker.	Replace defective breaker.

Conveyor Paver

Table 8-2. Paver Troubleshooting

SYMPTOM	CAUSE	REMEDY
Engine does not start	Defective battery or low battery charge	Replace or charge battery as applicable
	MASTER switch not in ON position	Set switch to the ON position
	Steering control not centered	Center steering control to activate neutral switch
	Insufficient fuel supply	Fill fuel tank
	Fault in engine	Refer to engine owner's manual
	Safety switch faulty	Replace
	Wires not making good connection on solenoid	Make sure wires are tight
	Plug in switch box unplugged	Plug back in
	Solenoid plunger sticking	Clean plunger
	Fuel solenoid coil defective	Replace coil
	Starter or solenoid faulty	Replace or rebuild
	Neutral switch defective	Replace
	Start relay faulty	Replace
Engine cuts off and will not start. (Turns over but will not start)	Low fuel	Add fuel to fuel tank
	Faulty fuel solenoid	Replace solenoid
Low Battery	Faulty alternator	Replace or rebuild
Paver will not move	RUN/STOP switch faulty	Check RUN/STOP switch
	Electrical cord Faulty	Check electrical cord.
Paver will not run straight	One of the hydraulic drive motors is out of adjustment	Readjust motors
	Steering control not centered	Center steering control
	Travel pump defective	Replace pump or rebuild
Paver does not change speed when 2-Speed High/Low Switch is toggled	Defective switch	Replace switch
	Defective solenoid	Replace solenoid
	Defective drive motor	Replace drive motor
Tracks not running smooth	Tracks too loose	Tighten tracks
	Too low engine RPM to hold track tension	Rev engine to full RPM and throttle back to one-half
	Track rollers worn	Replace
	Track tension pressure	Check pressure. NOTE: Pressure should be set to 350 PSI
Paver will not pull on one or both sides	Faulty hydraulic motor	Adjust
	Pump pressure too low	Pump pressure should be 3000 PSI
	Faulty torque hub	Rebuild or replace

NOTES



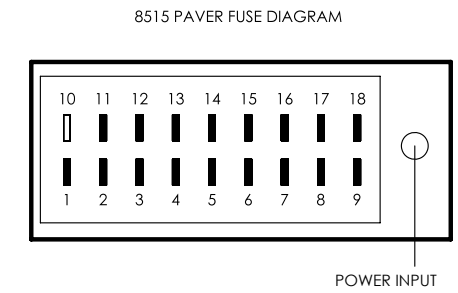
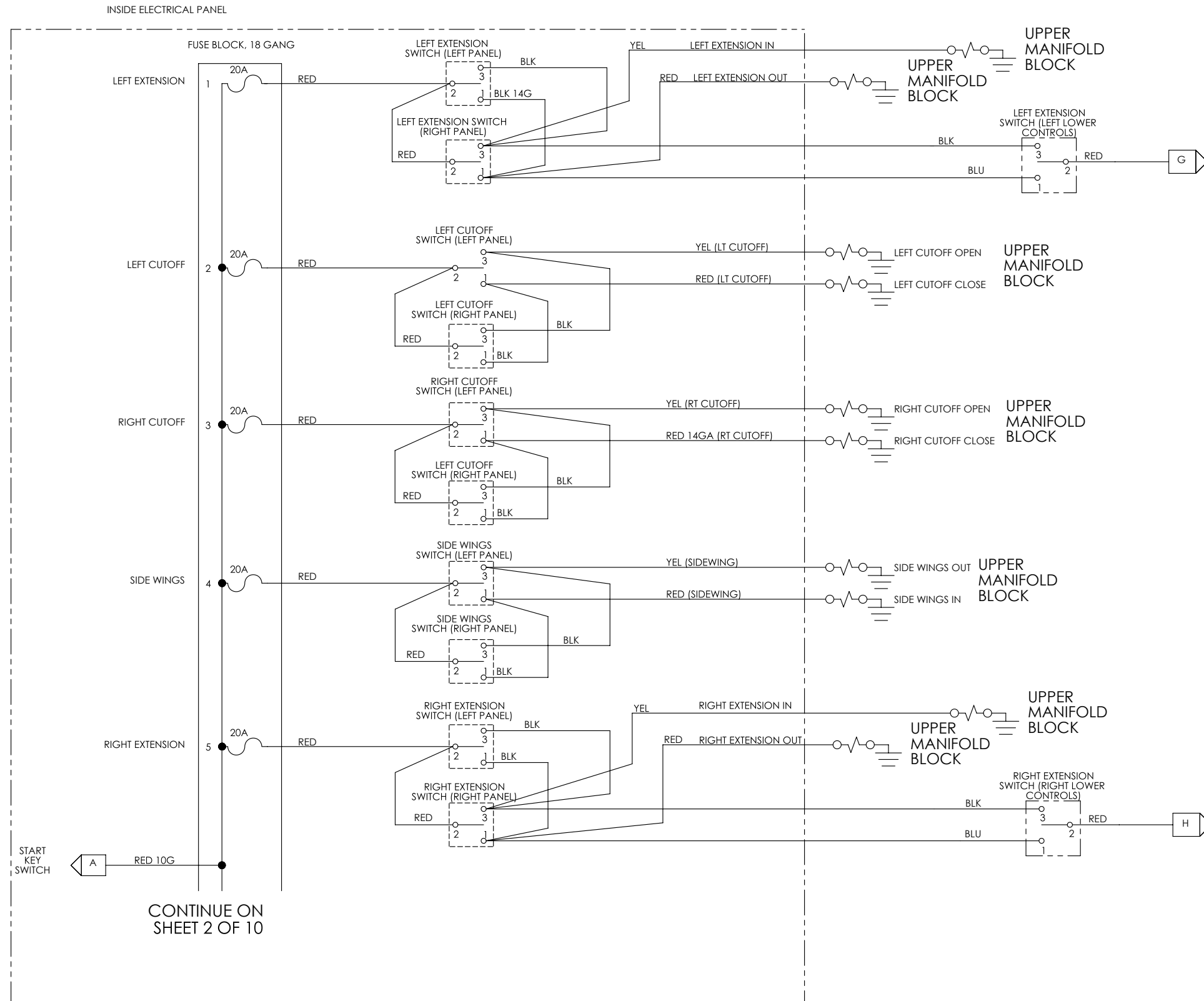
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NOTES

ELECTRICAL 1 OF 14



NOTES:
 1. ALL WIRES ARE 16AWG UNLESS OTHERWISE NOTED

Figure 6-1

NOTES

ELECTRICAL 2 OF 14

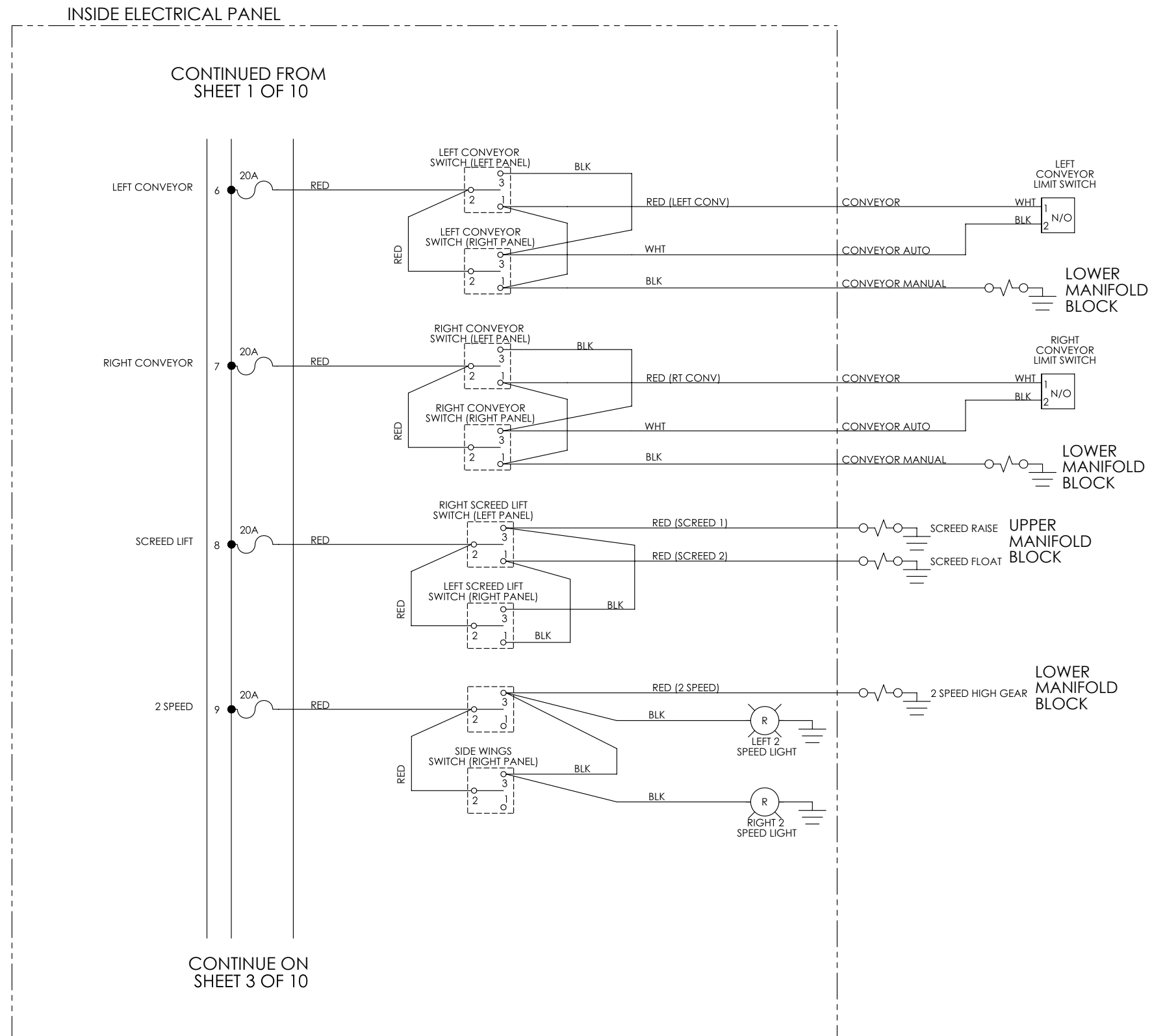


Figure 6-2

NOTES

ELECTRICAL 3 OF 14

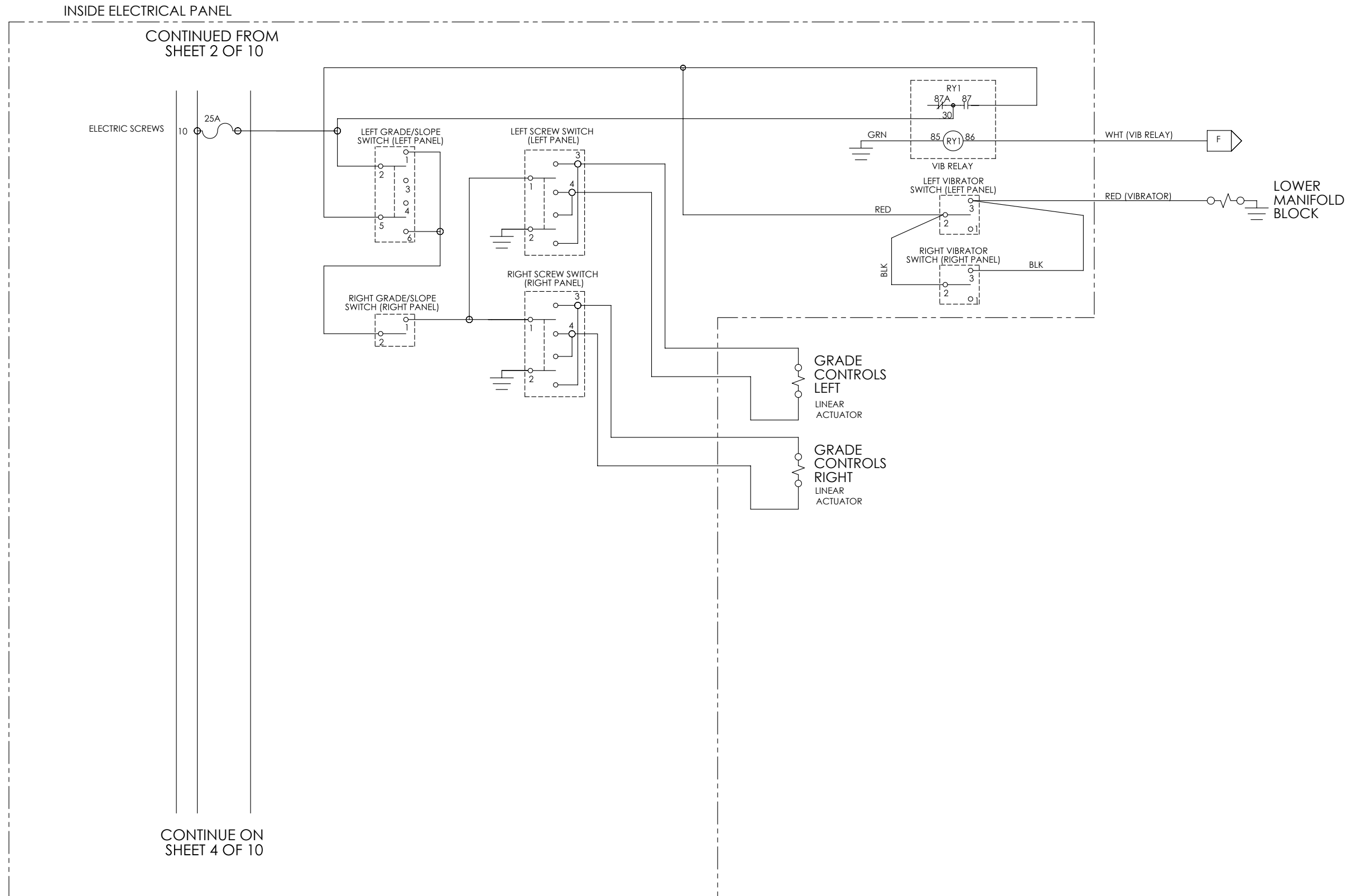


Figure 6-3

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ELECTRICAL 4 OF 14

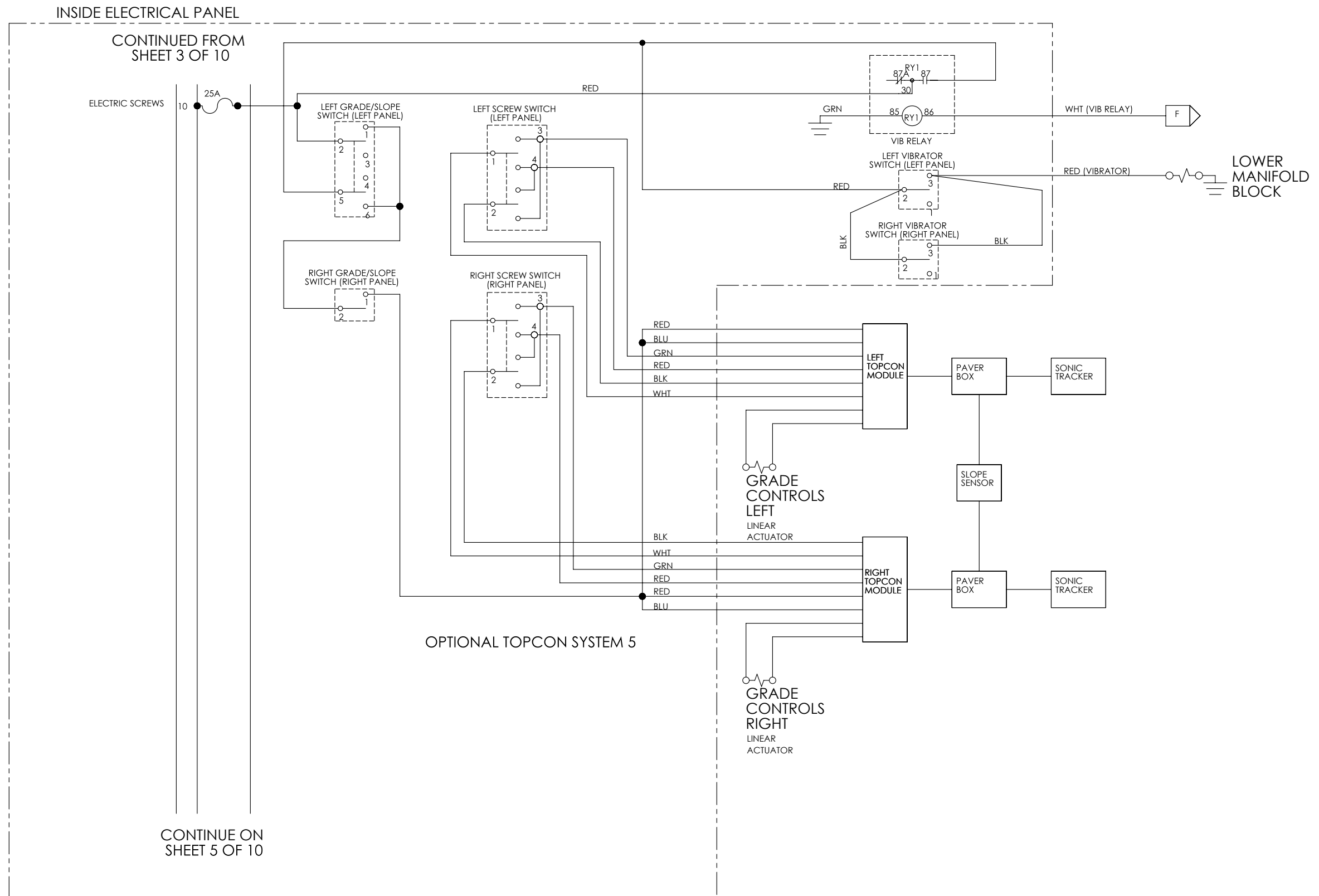


Figure 6-4

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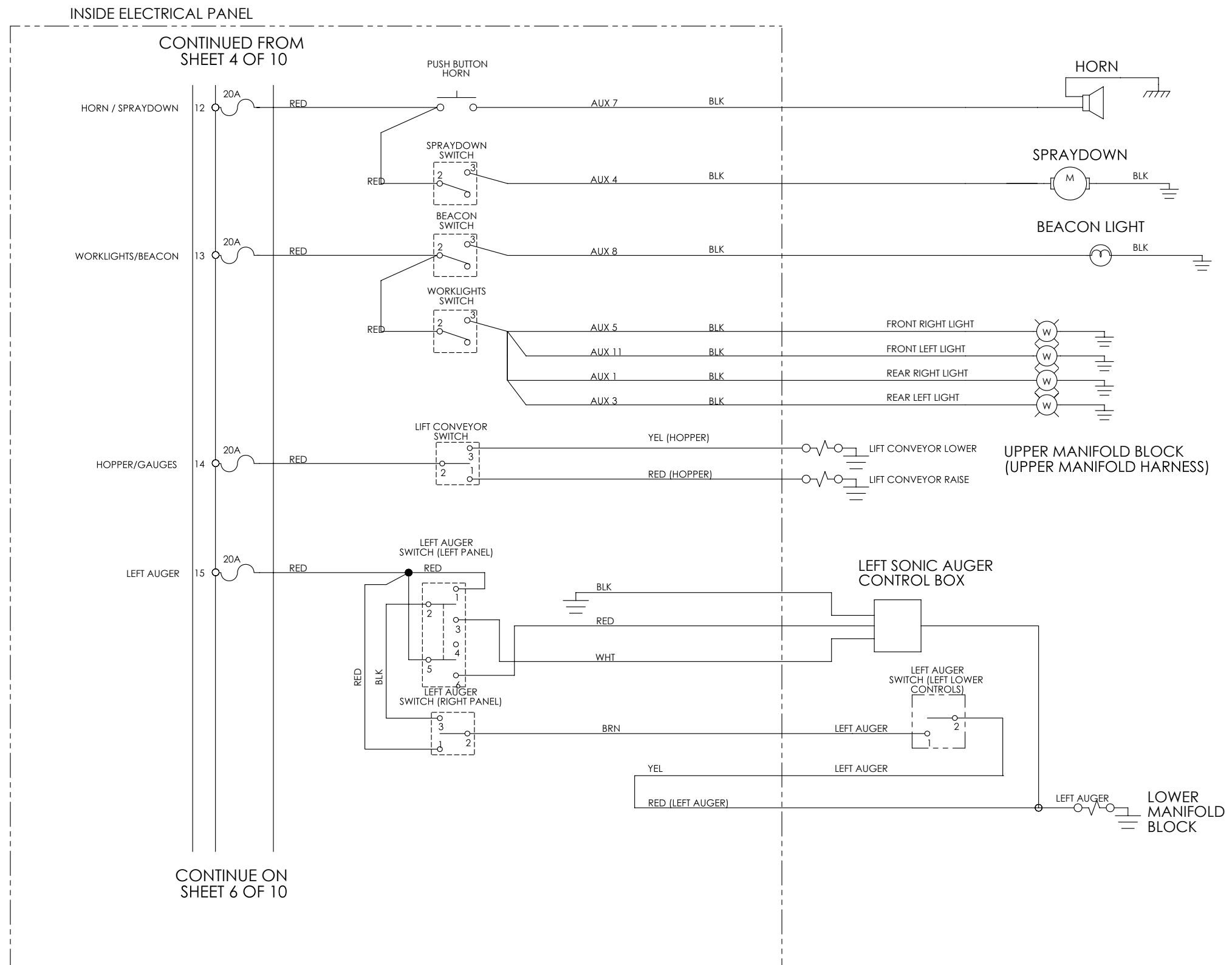


Figure 6-5

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ELECTRICAL 6 OF 14

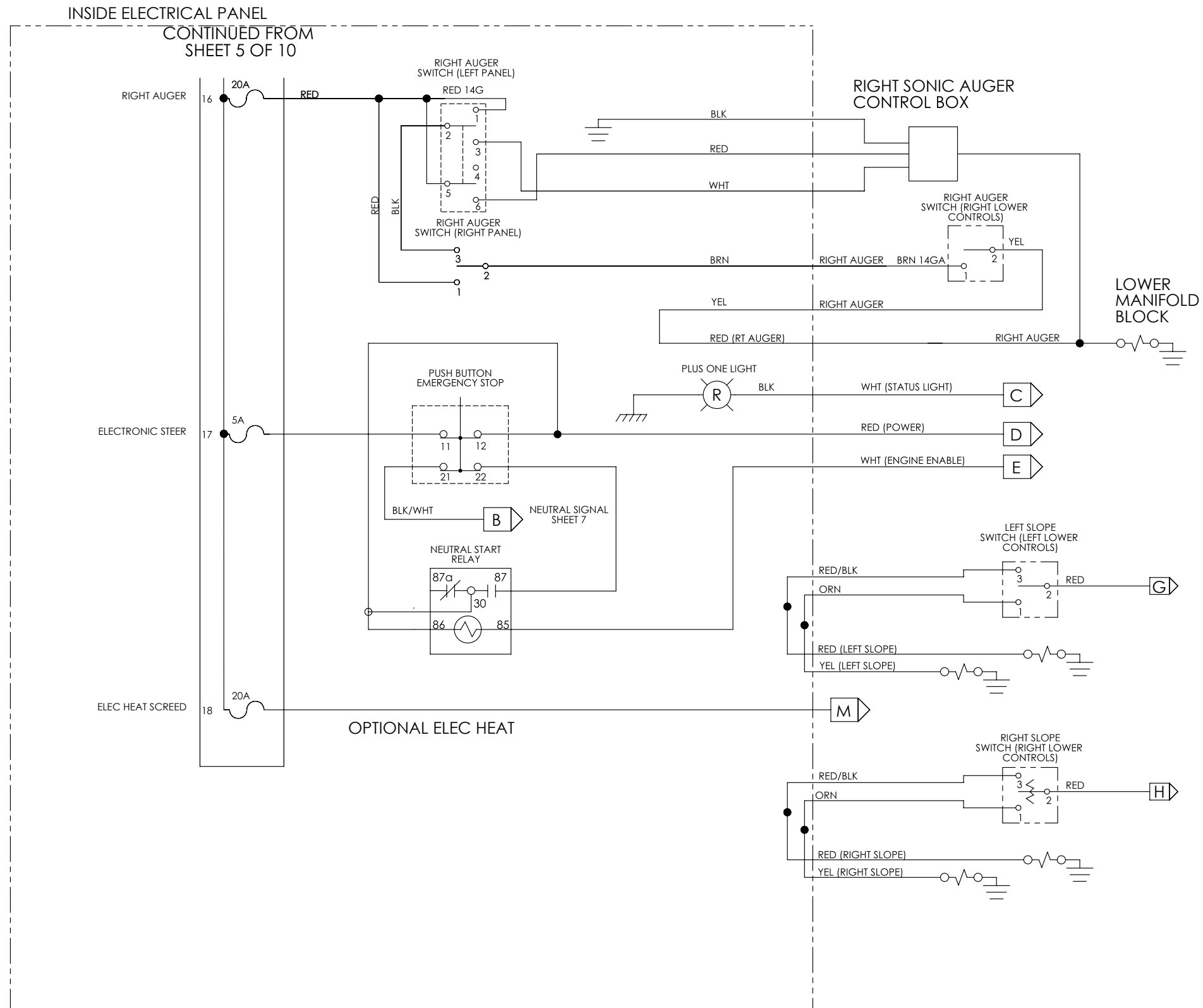


Figure 6-6

NOTES

ELECTRICAL 7 OF 14

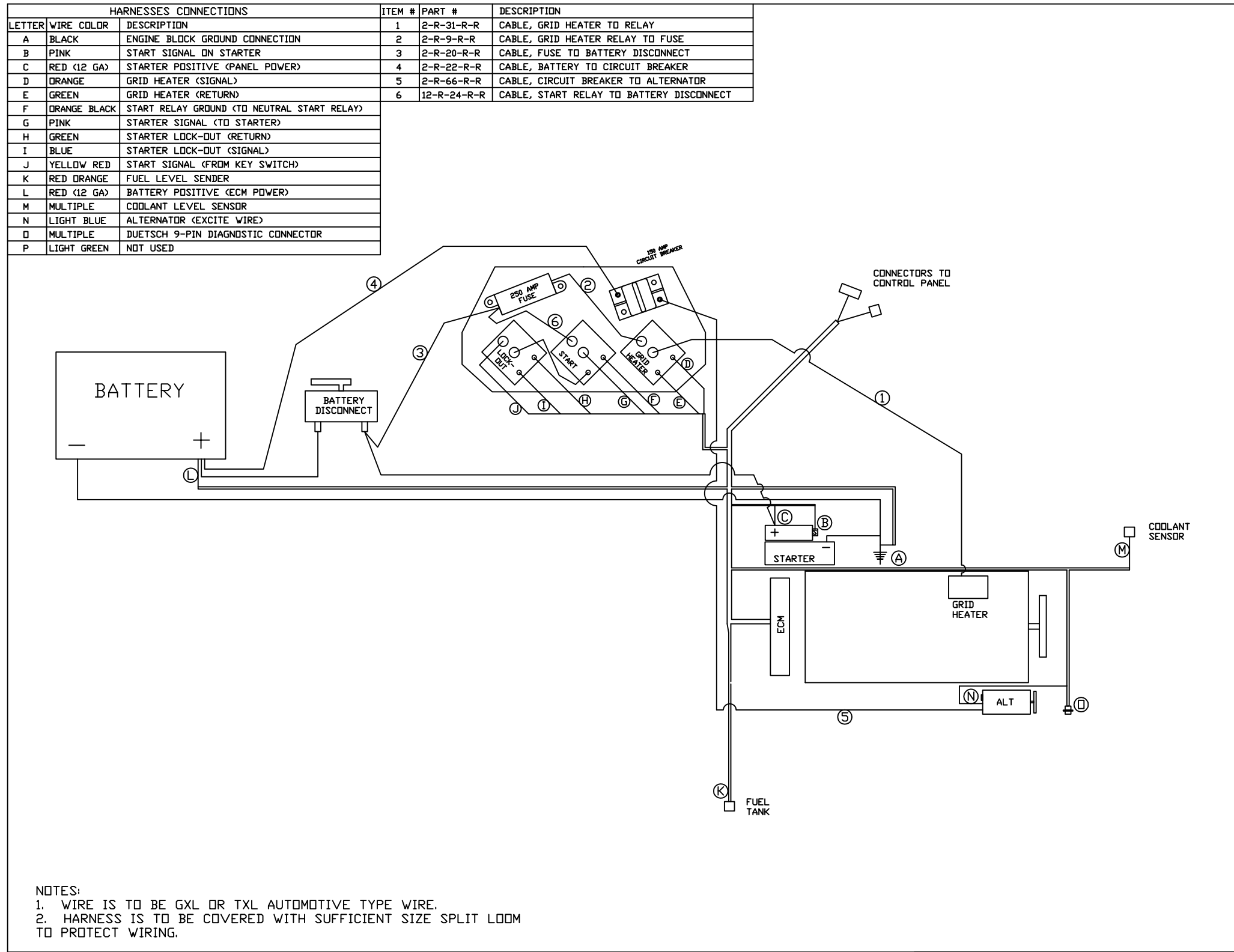


Figure 6-7

NOTES

ELECTRICAL 8 OF 14

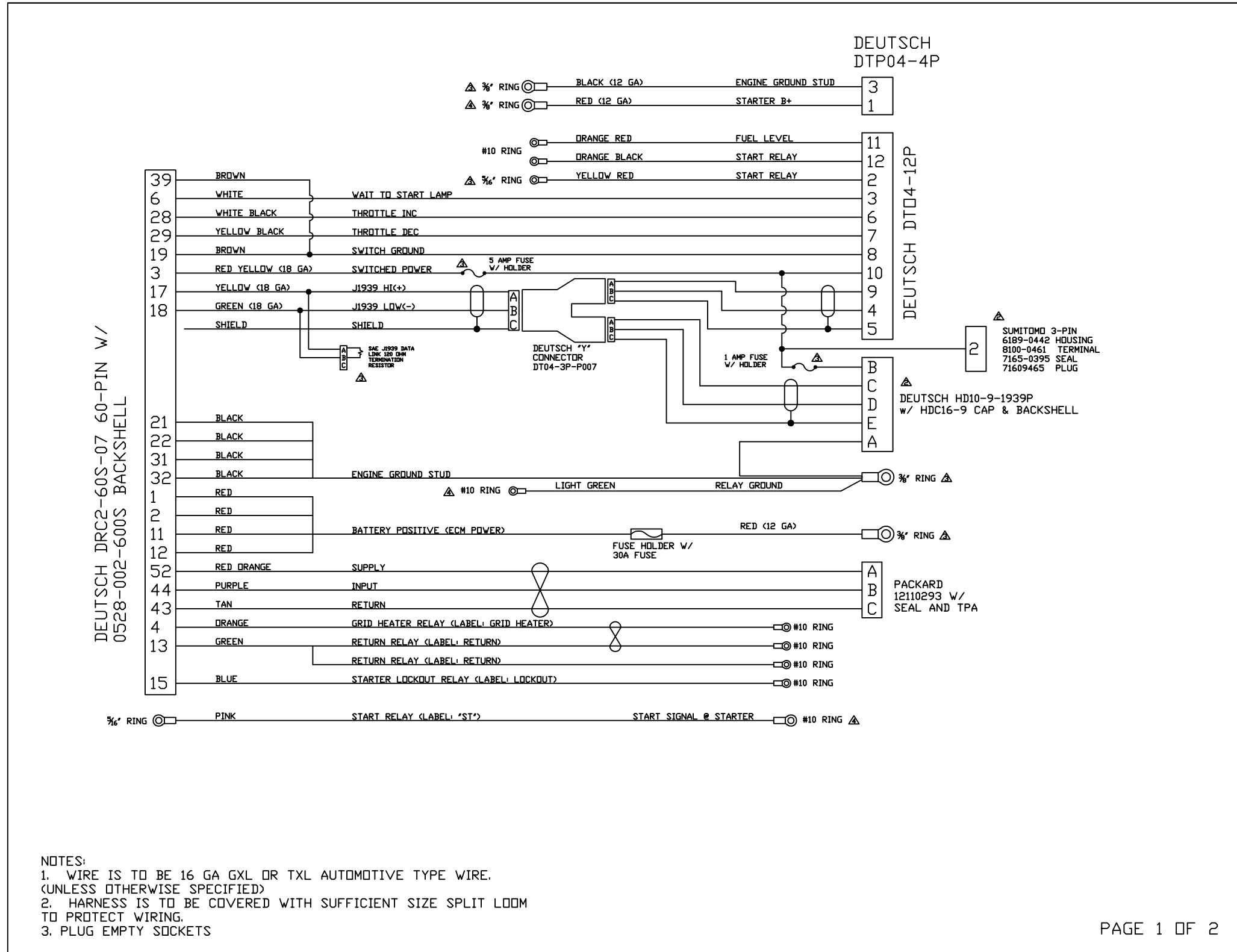


Figure 6-8

NOTES

ELECTRICAL 9 OF 14

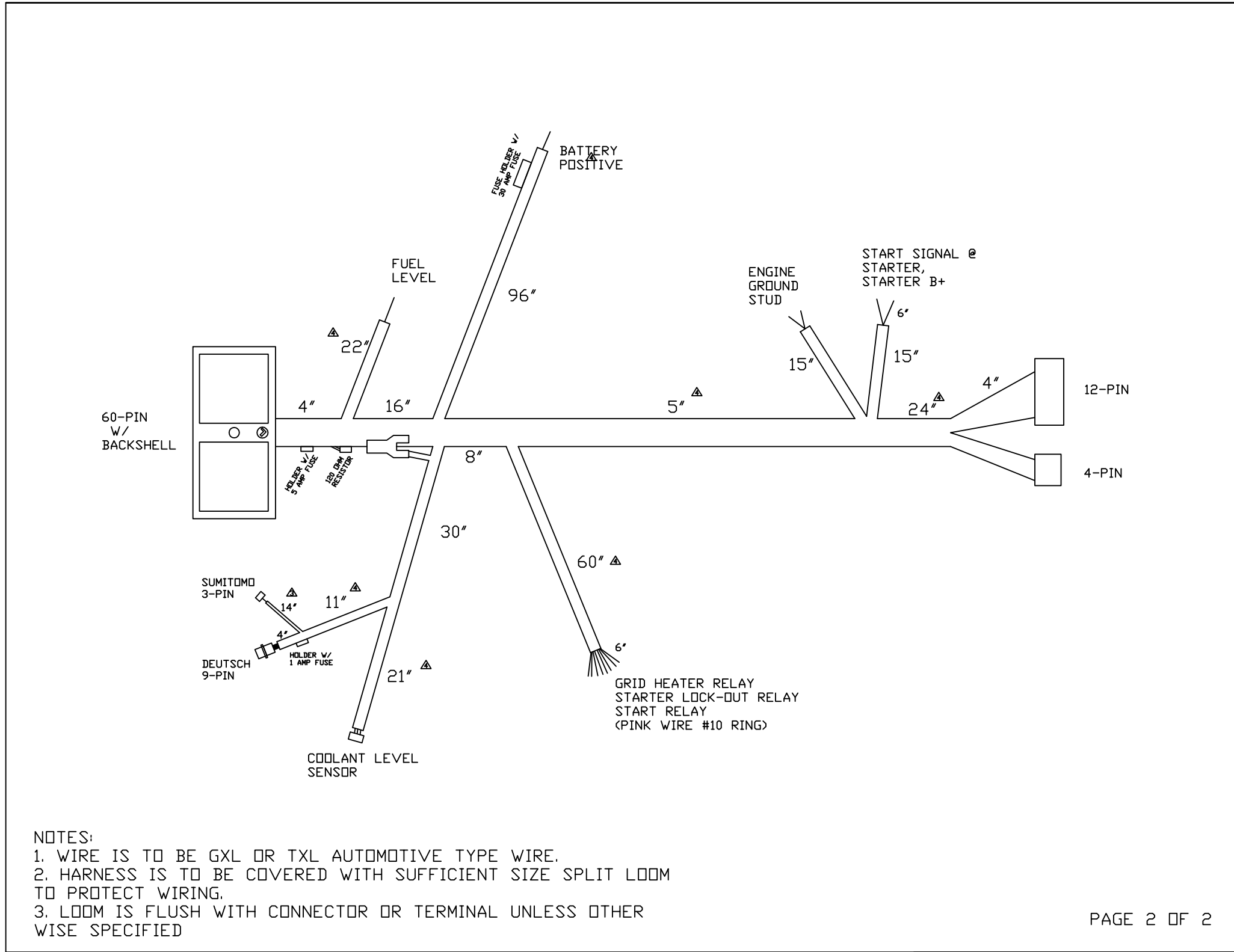


Figure 6-9

NOTES

ELECTRICAL 10 OF 14

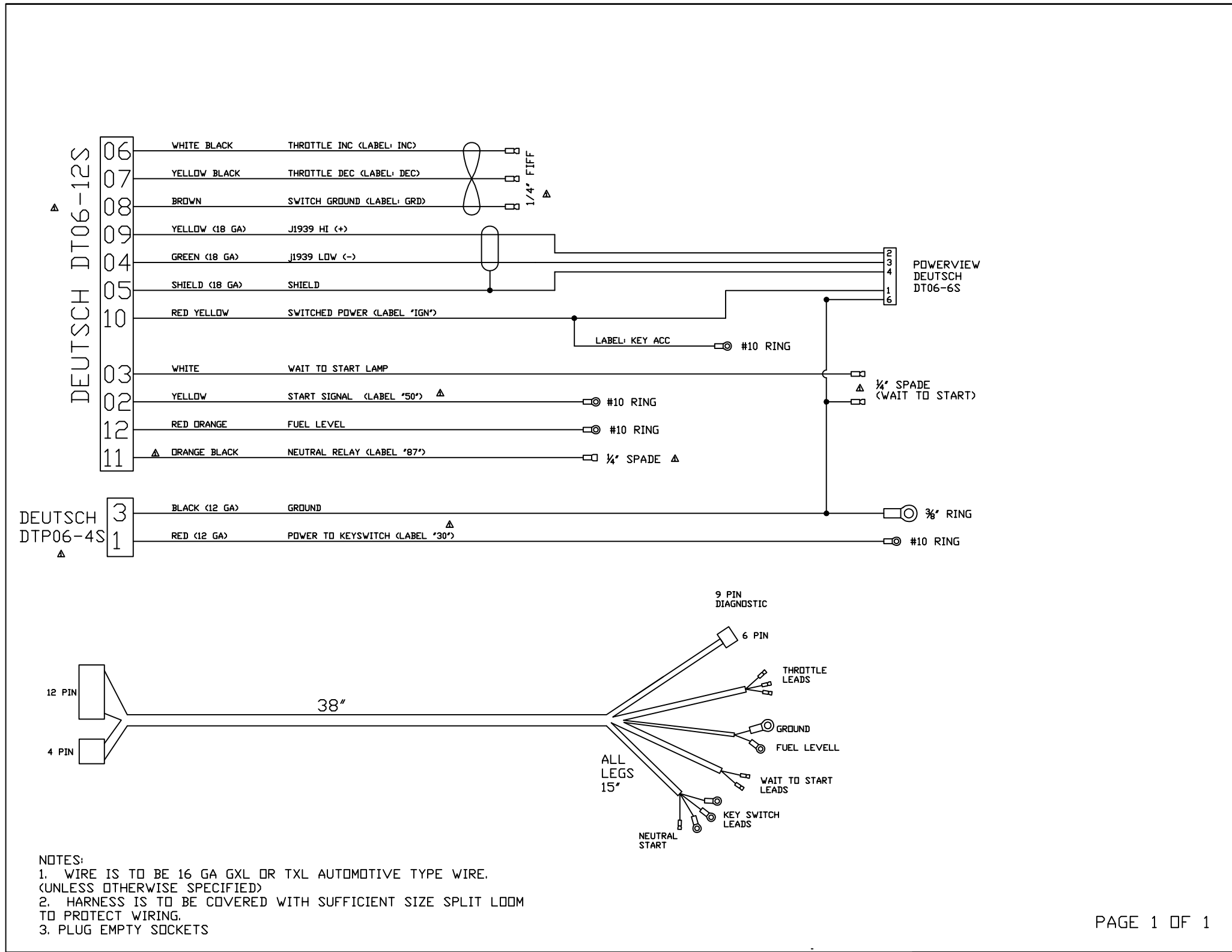


Figure 6-10

NOTES

ELECTRICAL 11 OF 14

NOTES:

1. INTERFACE CONNECTOR TO EXTEND 48" BEYOND EDGE OF CONTROL PANEL
2. OK TO RUN
 1. +12VDC APPLIED FROM ESTOP ; MACHINE NOT IN ESTOP CONDITION
 2. LOCKOUT RELAY ENERGIZES PERMITTING ENGINE START AND RUN
 3. REMOVAL OF +12VDC SIGNAL CAUSES IMMEDIATE SHUTDOWN OF ENGINE
3. NEUTRAL SIGNAL
 1. +12VDC FROM PLUS ONE WHEN UNIT IN NEUTRAL
4. PARK REGEN PERMITTED
 1. +12VDC ON BOTH "OK TO RUN" & "NEUTRAL SIGNAL"
 2. PARK & NEUTRAL RELAY CONNECTS GND TO PIN 6 & PIN 18 OF PV480 & PIN 11 OF HDP24 CONNECTOR FROM FRAME GROUND INDICATING ENGINE START AND/OR PARK REGEN PERMITTED
 3. PLUS ONE MONITORS CAN BUS AND PREVENTS MOVEMENT OF EQUIPMENT SO LONG AS ENGINE ECU IS BROADCASTING VALUE=2 ON PGN65361, DT8, BIT 4-5
5. SIGNAL POLARITIES SHOWN IN PV480 MATRIX
6. IF INDICATOR LAMPS ARE INSTALLED FOR SIGNALS FROM PINS 6, 7 & 8, THE LAMPS CAN NOT BE LED, THEY MUST BE INCANDESCENT
7. POWER UP SEQUENCE IS AS FOLLOWS:
 1. +12VDC TO PIN 17 HDP24 ACC VOLTS FROM KEYSWITCH
 2. GND TO PIN 16 HDP24 ONLY AFTER MAIN CONTROL SYSTEM HAS COMPLETED BOOT-UP AND IS BROADCASTING OVER J1939
 3. WAIT TO START PIN 7 HDP24 WILL REMAIN AT +12VDC UNTIL STEP 7.2 COMPLETED
7. NEUTRAL SIGNAL MUST BE SENT TO PIN 11 HDP24 TO ALLOW ENGINE START ON PIN 14 HDP24
8. BOTH PARK AND NEUTRAL SIGNALS SHOULD BE SENT OVER J1939 (PGNS 65265 & 65219) TO ENGINE ECU WHEN ESTOP IS ACTIVATED

KABOTA CONTROLS

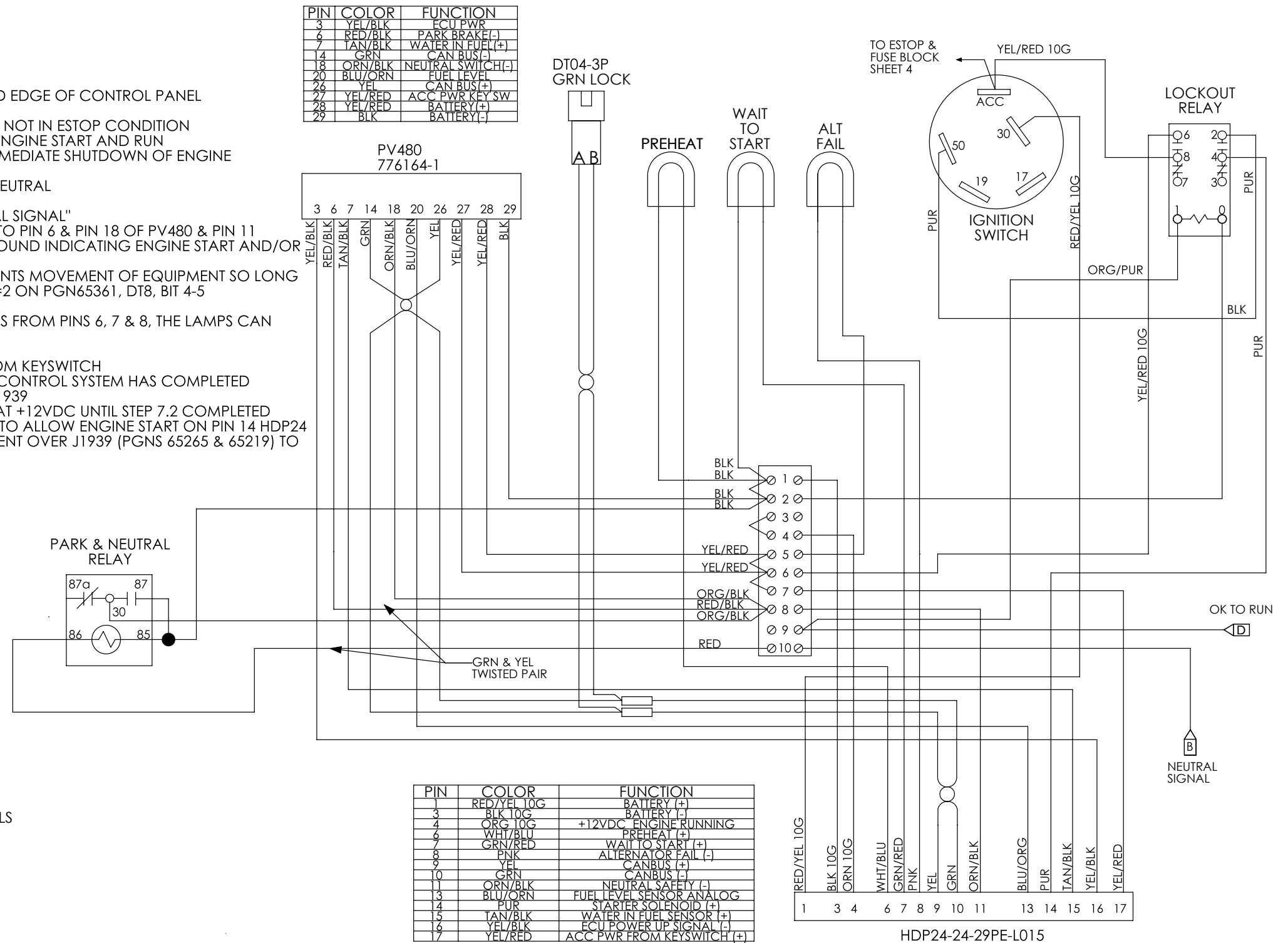


Figure 6-11

NOTES

ELECTRICAL 12 OF 14

Items in BLUE are optional and may not be used in every application.

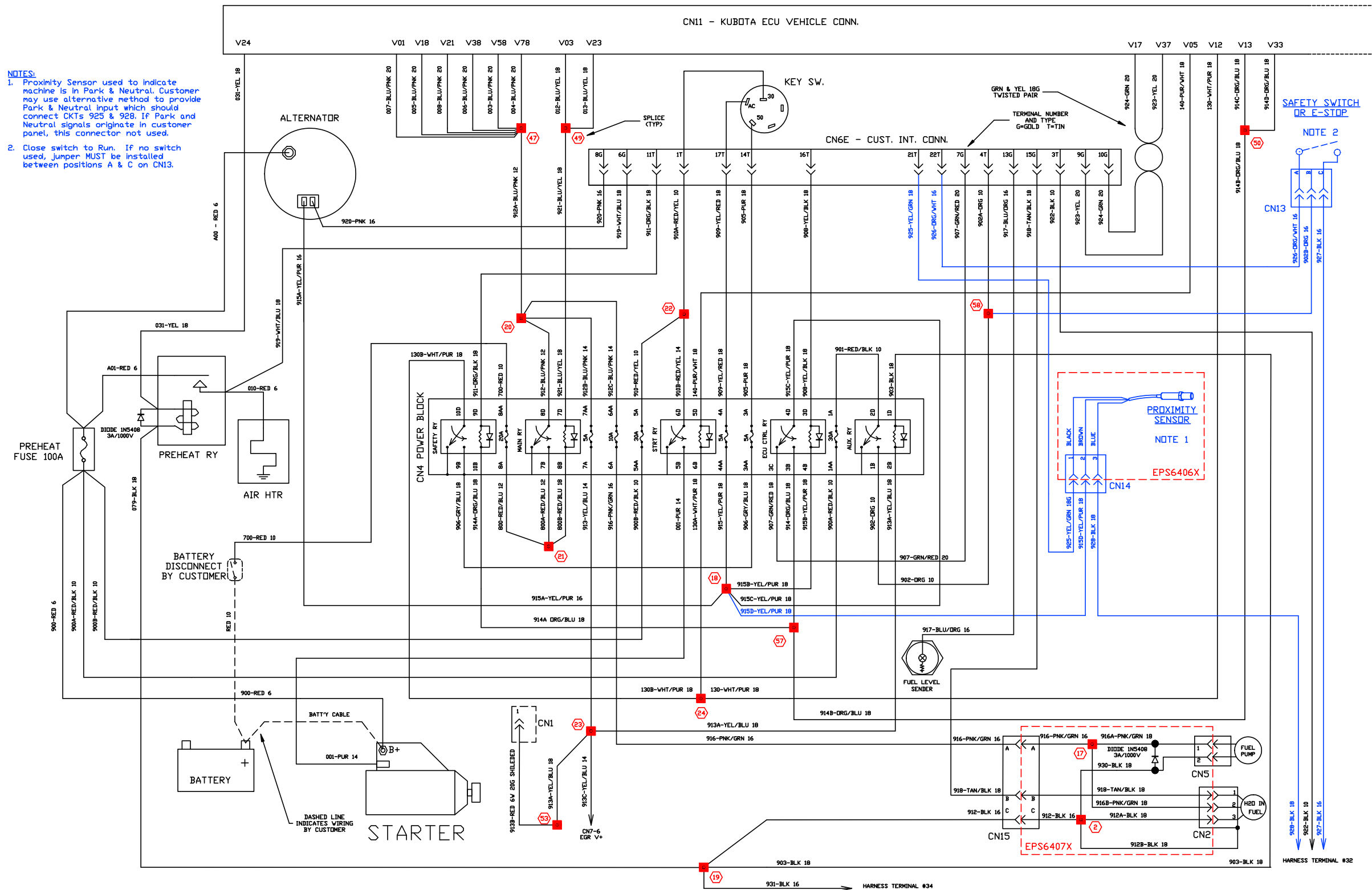


Figure 6-12

NOTES

ELECTRICAL 13 OF 14

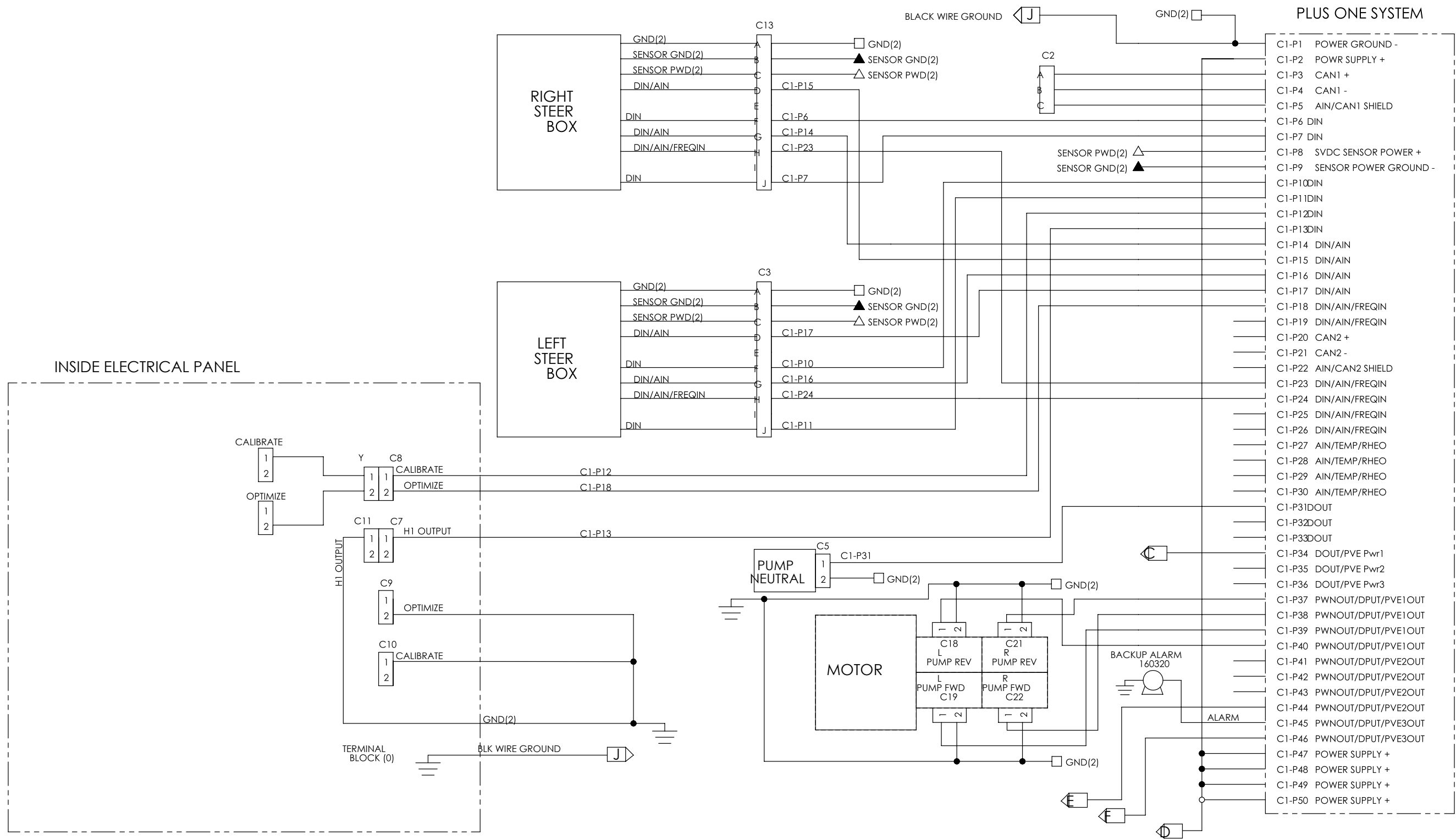


Figure 6-13

NOTES

ELECTRICAL 14 OF 14

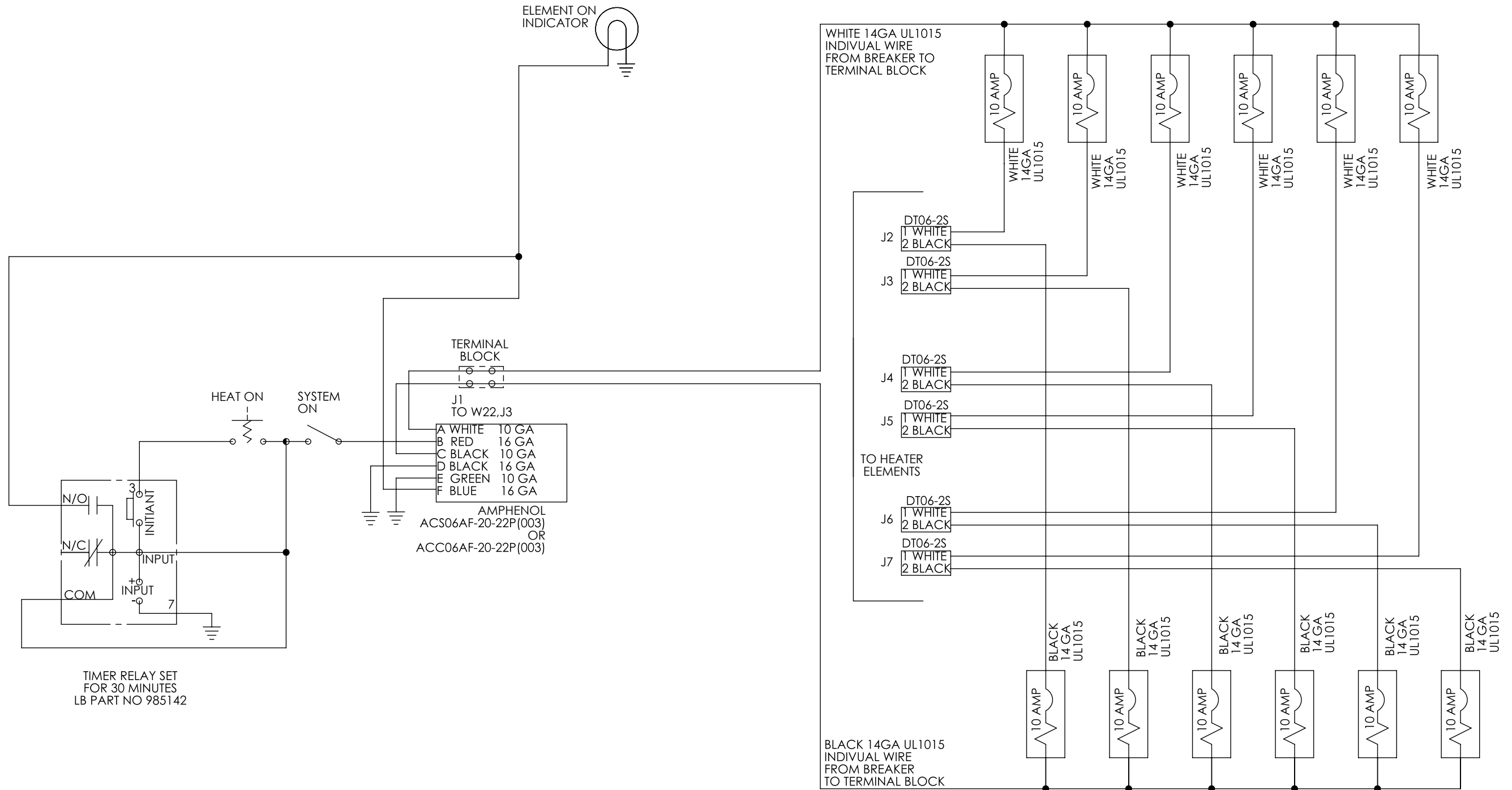


Figure 6-14

NOTES

HYDRAULIC HOISING 1 OF 6

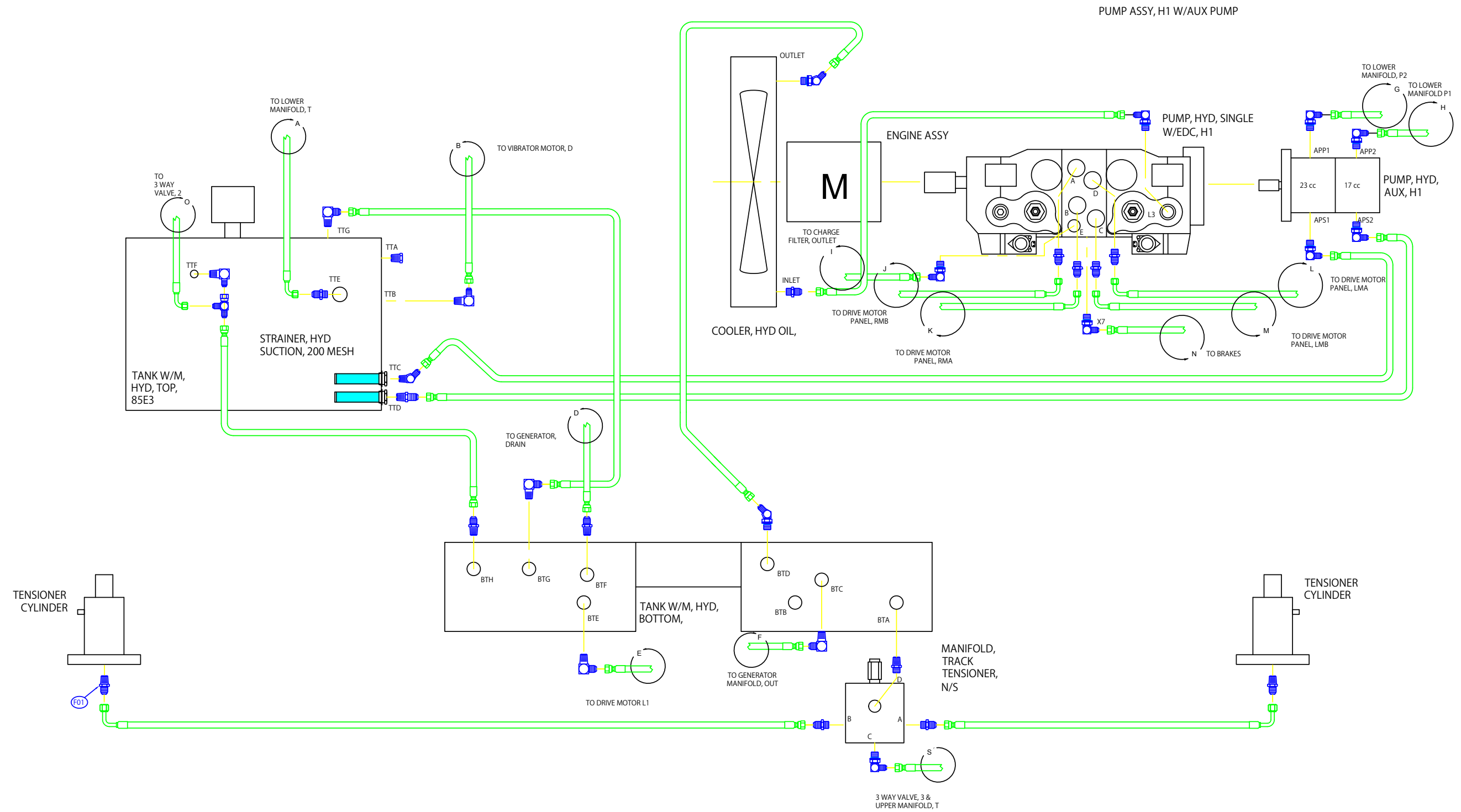


Figure 6-15

NOTES

HYDRAULIC HOISING 2 OF 6

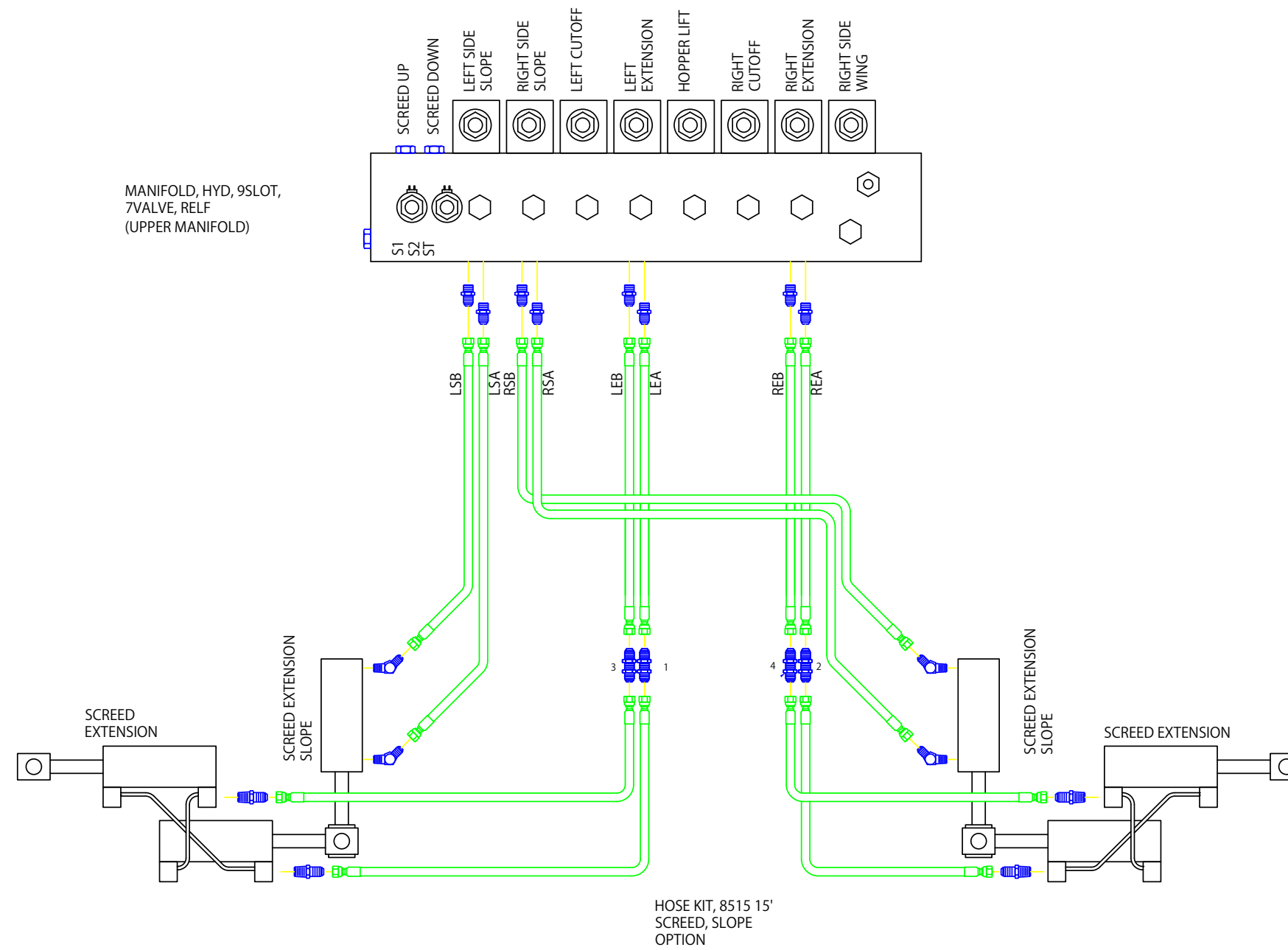


Figure 6-16

NOTES

HYDRAULIC HOISING 3 OF 6

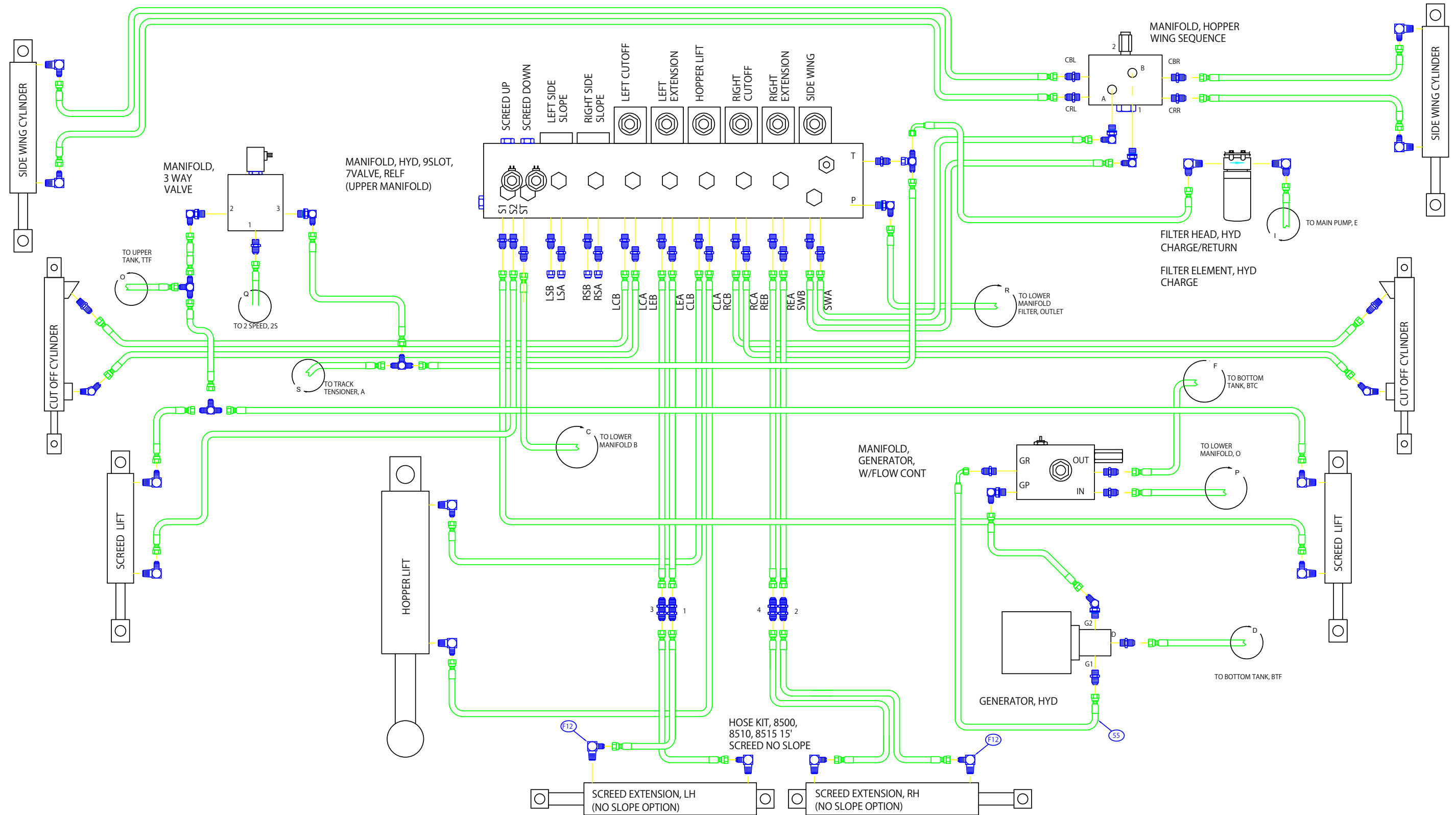


Figure 6-17

NOTES

HYDRAULIC HOISING 4 OF 6

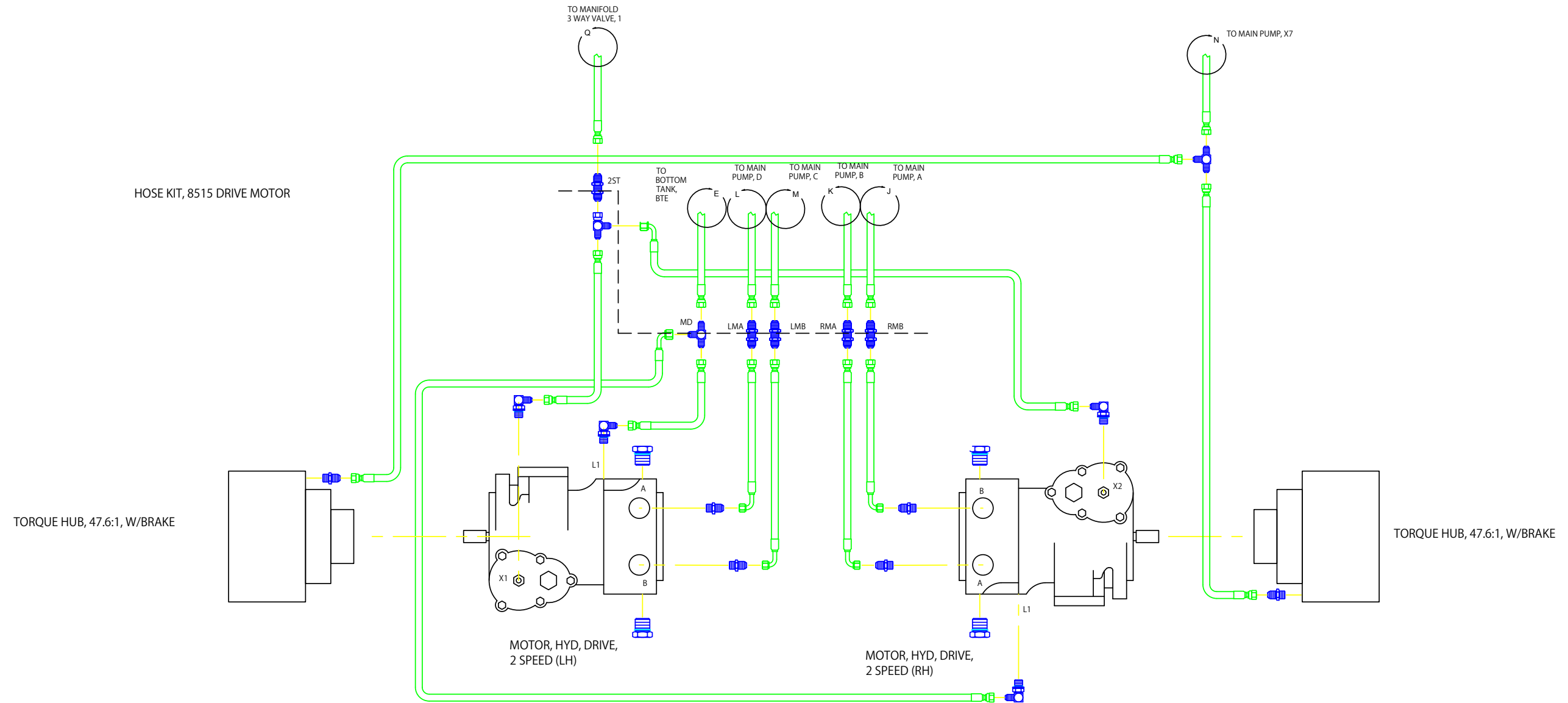


Figure 6-18

NOTES

HYDRAULIC HOISING 5 OF 6

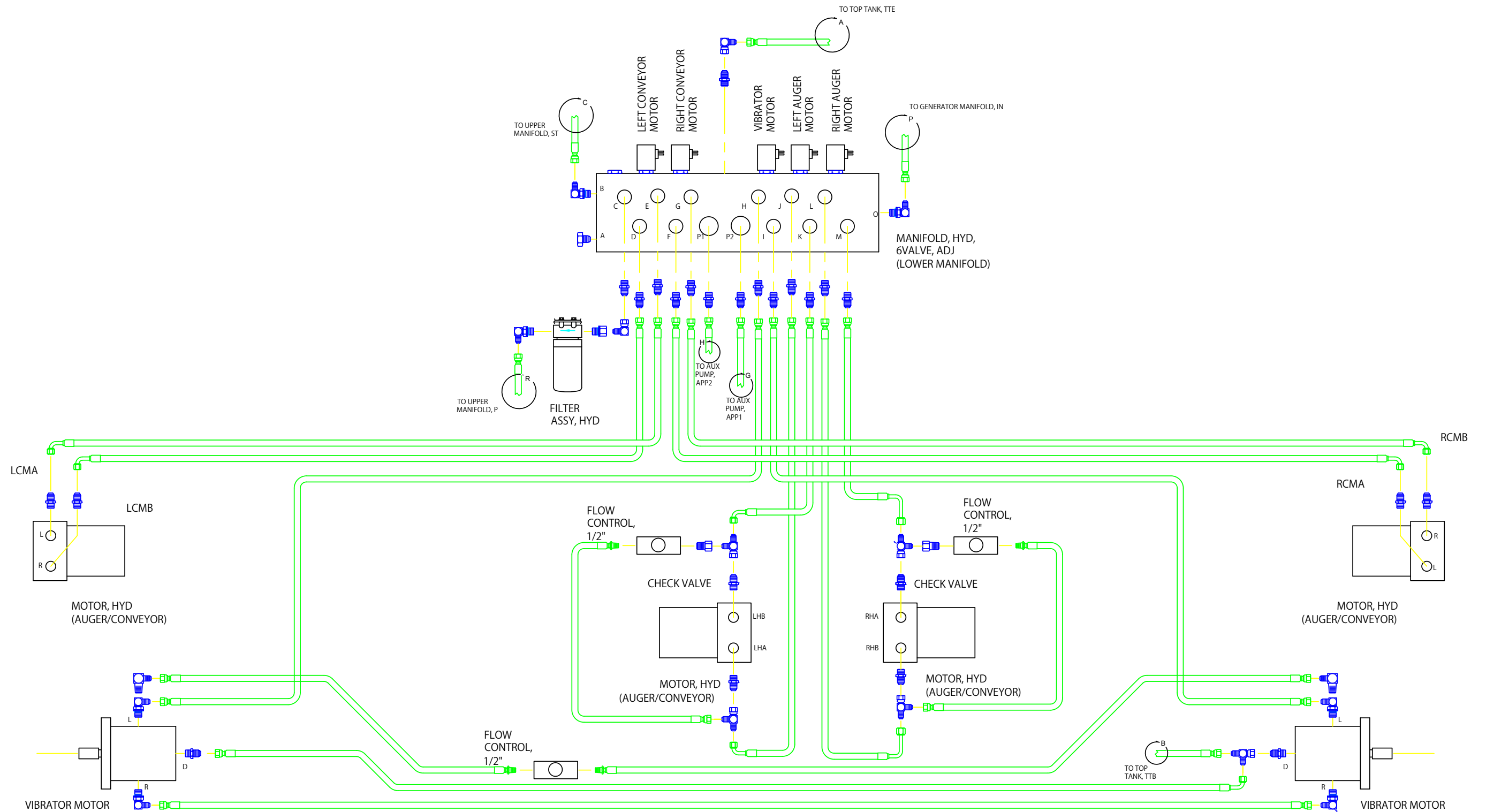


Figure 6-19

NOTES

HYDRAULIC HOISING 6 OF 6

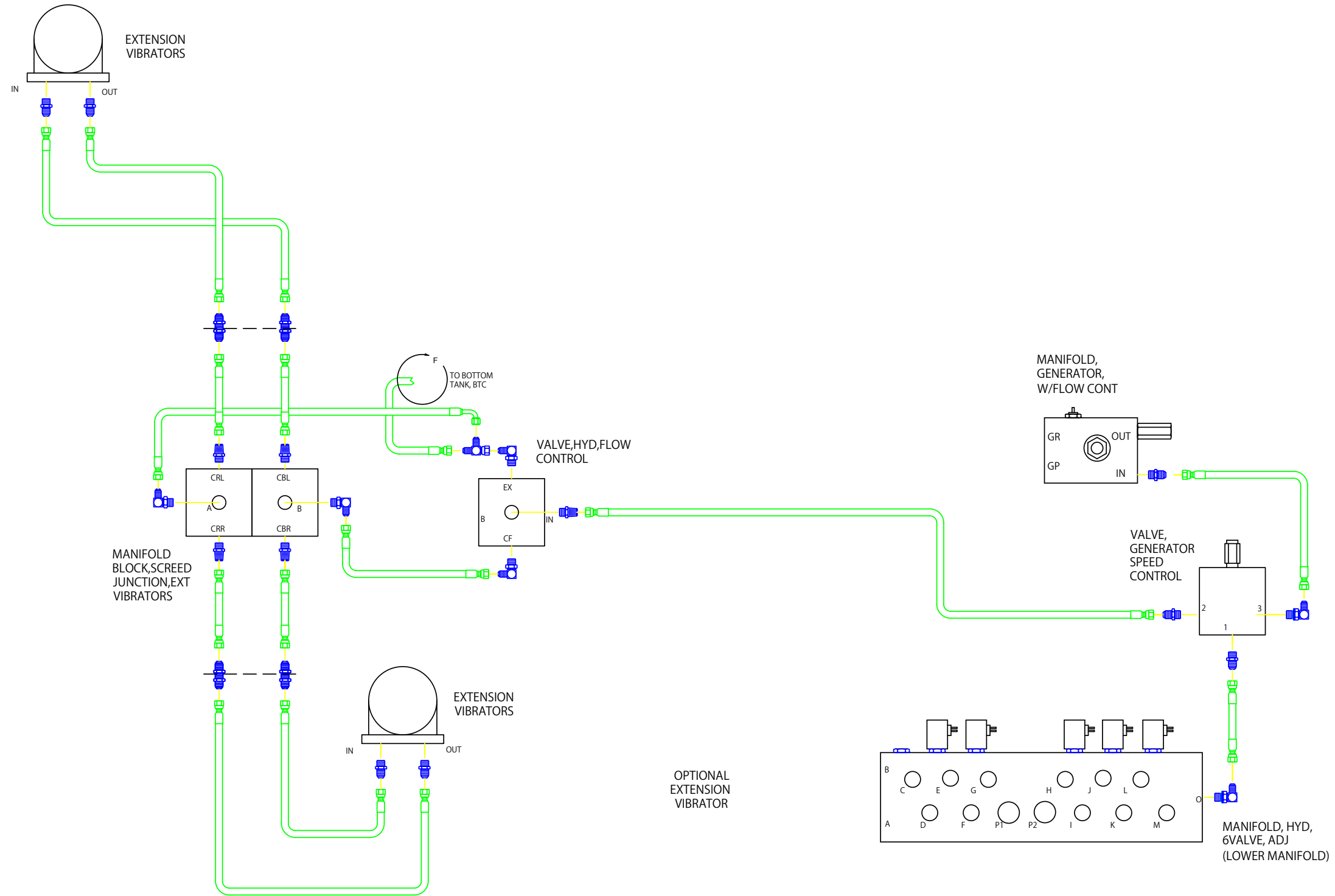


Figure 6-20

NOTES

HYDRAULIC 1 OF 4

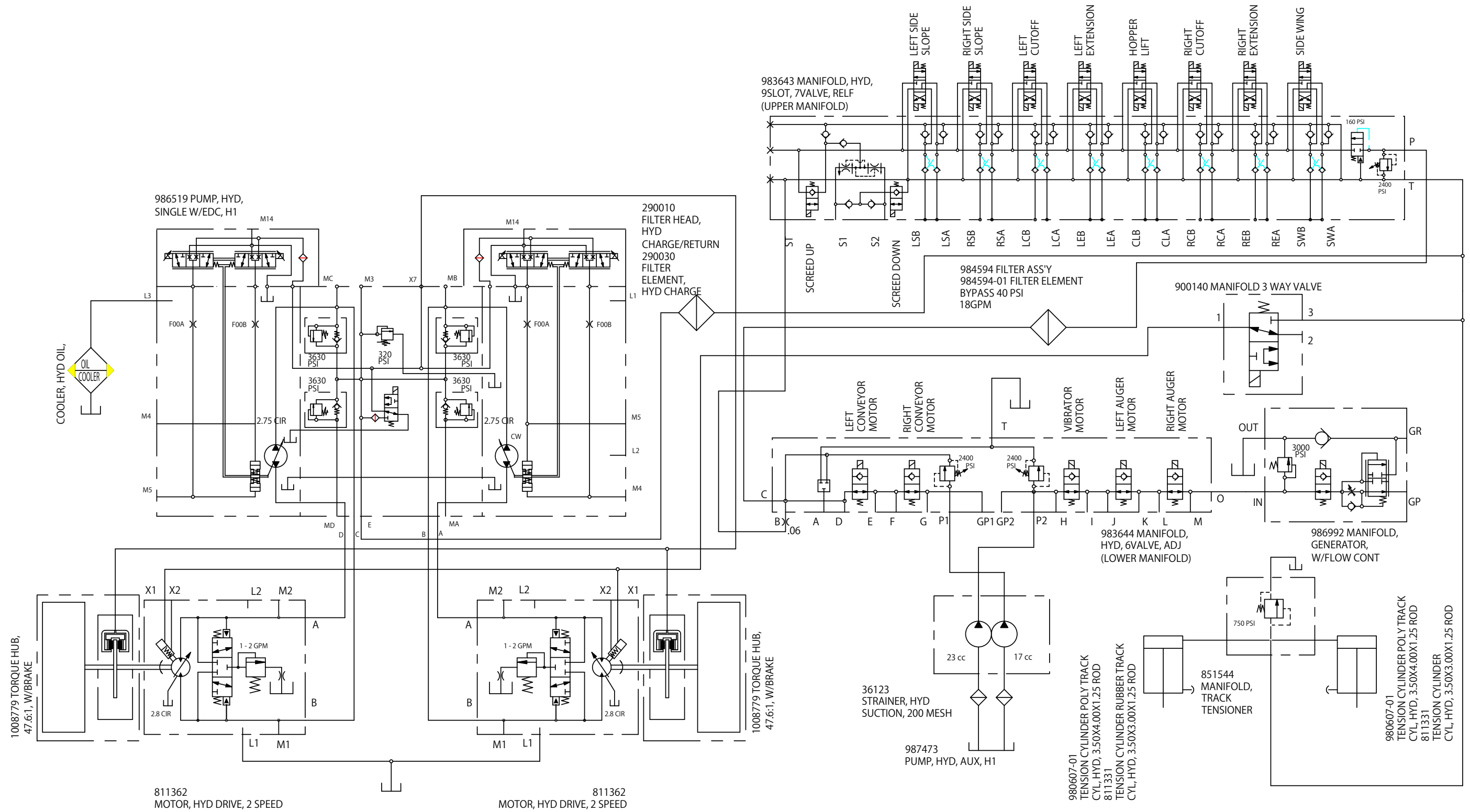


Figure 6-21

NOTES

HYDRAULIC 2 OF 4

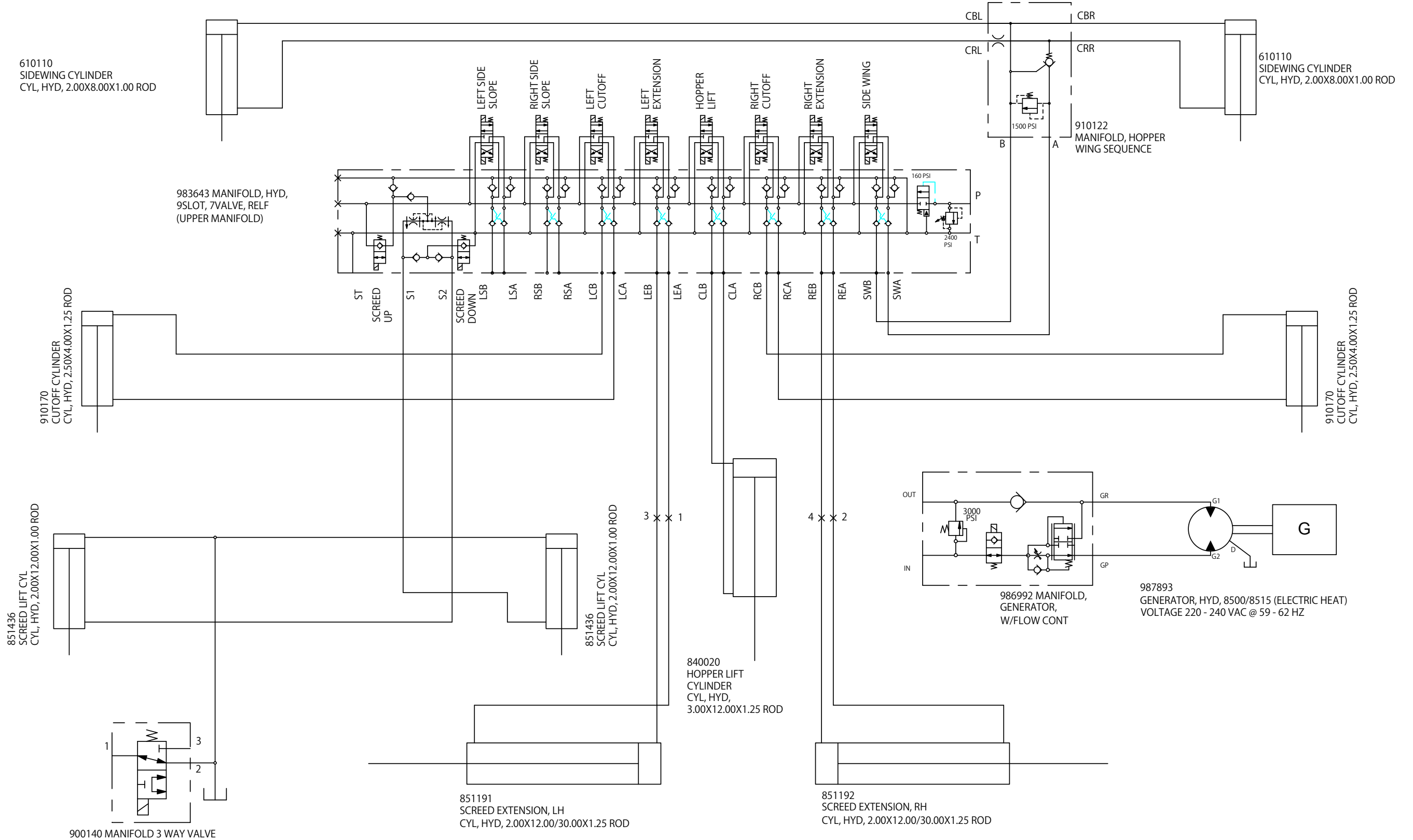


Figure 6-22

NOTES

HYDRAULIC 3 OF 4

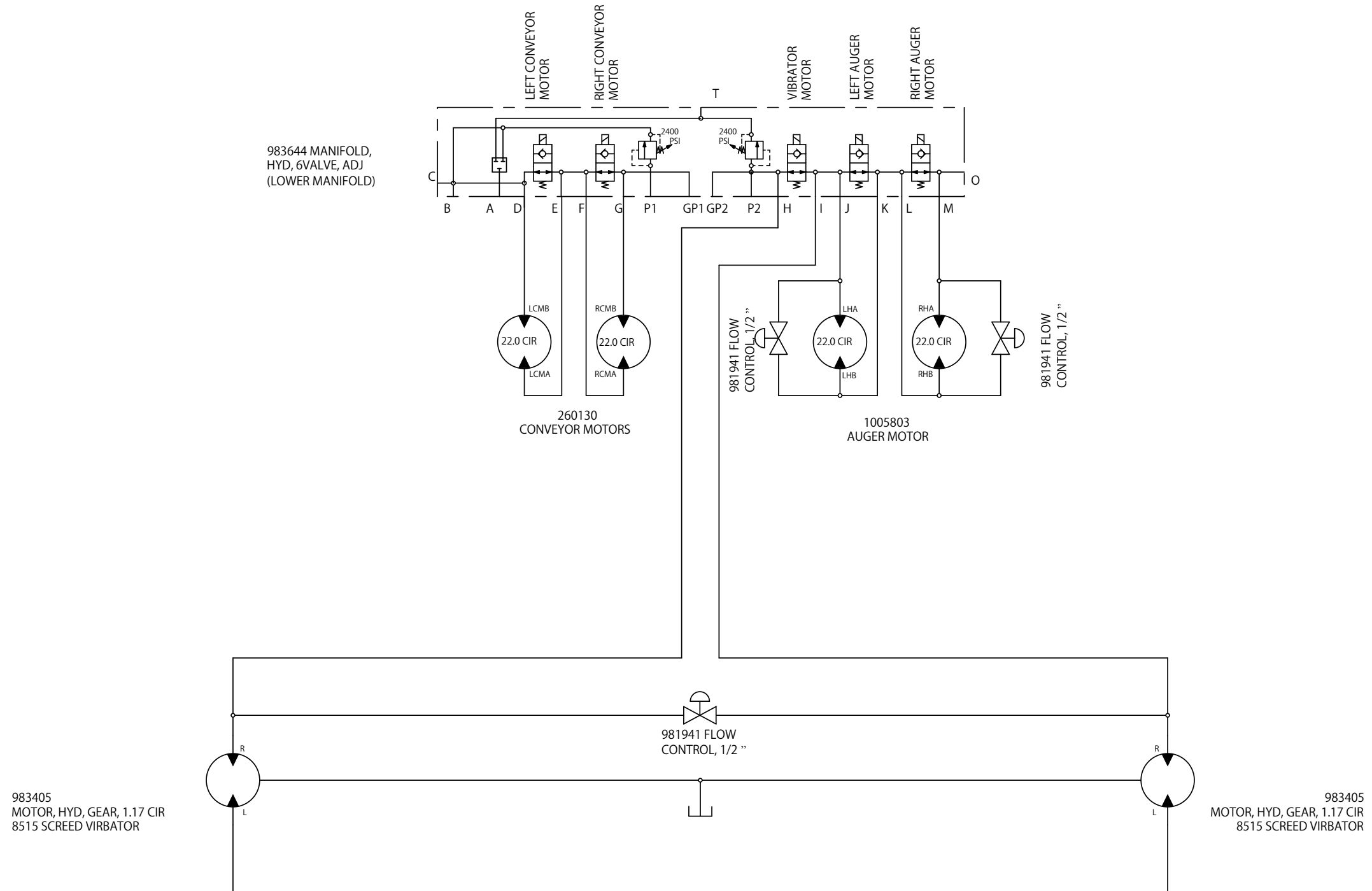


Figure 6-23

NOTES

HYDRAULIC 4 OF 4

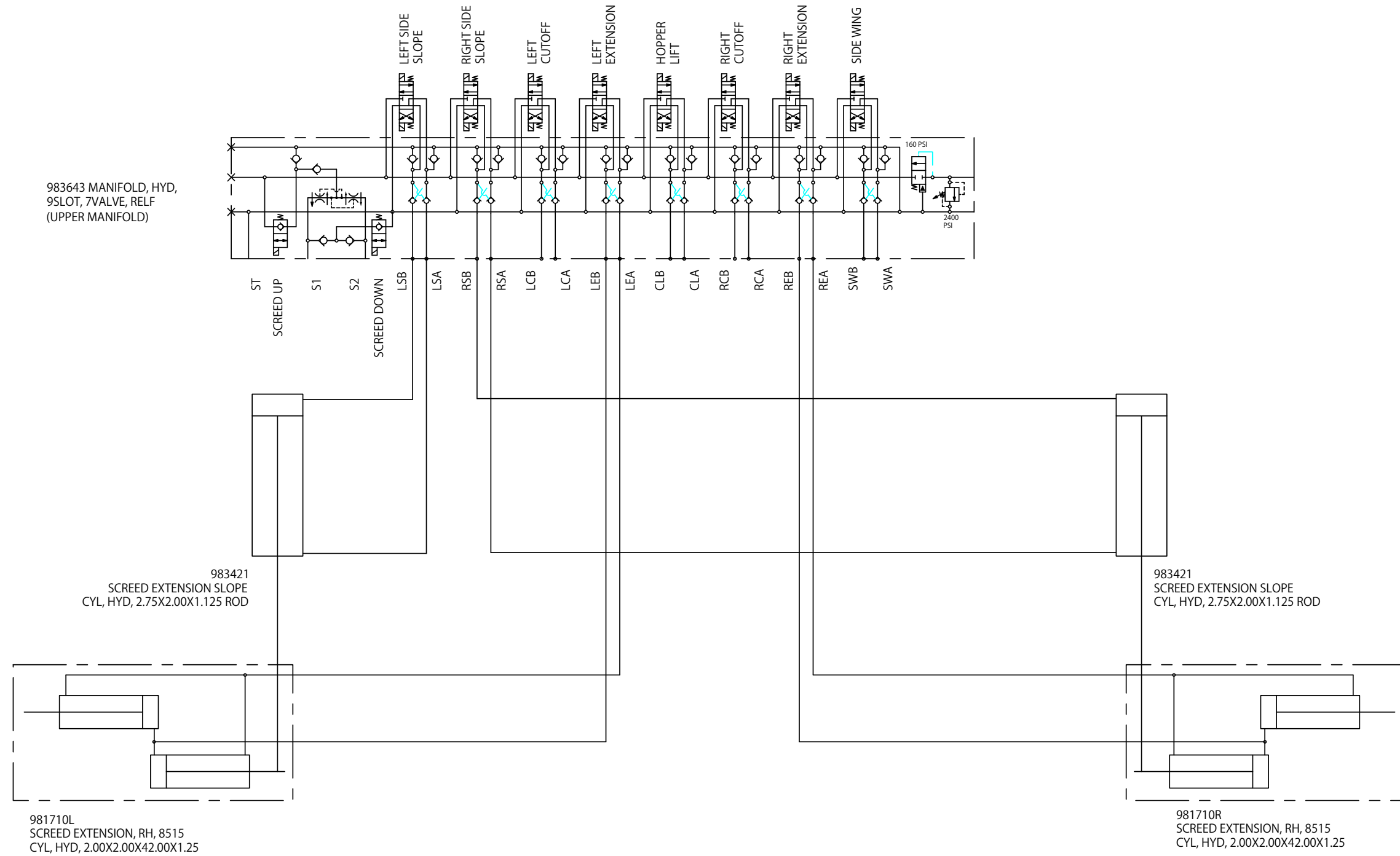


Figure 6-24

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Section 7

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QUICK REFERENCE GUIDE - FILTERS

Part Number	Description	Maint. Interval	Figure Ref.
986537-03	Kubota, Fuel Filter	250 Hours	Figure 7-9
982080-03	Kubota, Oil Filter	250 Hours	Figure 7-9
986537-31	Kubota, In-line Filter	250 Hours	Figure 7-9
1009253-17	Kubota, Air Primary Filter	250 Hours	Figure 7-9
1009253-16	Kubota, Air Safety Filter	250 Hours	Figure 7-9
36808	Cummins, O-Ring, 3.237 ID X 0.103,SAE 152	250 Hours	Figure 7-11
1010076-33	Cummins, Fuel Filter	250 Hours	Figure 7-12
1010076-35	Cummins, Belt, V-Ribbed	250 Hours	Figure 7-12
1010076-46	Cummins, Oil Filter	250 Hours	Figure 7-12
1010076-01	Cummins, Filter, Air Secondary	250 Hours	Figure 7-12
1010076-02	Cummins, Filter, Air Primary	250 Hours	Figure 7-12
290030	Hydraulic,Charge Filter Return	250 Hours	Figure 7-7
984594-01	Hydraulic, Element	250 Hours	Figure 7-7
1009253-19	Filter Fuel Water Seprator 8515 Tier 4i	250 Hours	-
986537-31	Filter, Fuel, In Line	250 Hours	-
1007678	Decal, Kit, 8515B Dec/Saf/Ops	A/R	-
1010178	Decal, Notice, Engine Fuse Location	A/R	-
1009897	Decal, 8515C	A/R	-
1010091	Decal, Certified Emission Engine Installation	A/R	-
1010089	Decal, CJ-4 Oil Only	A/R	-
1010027	Decal, Control Panel, Tier 4	A/R	-
1010090	Decal, Ultra Low Sulfur Fuel Only	A/R	-

SPROCKET DRIVE TRACK SYSTEM (4 ROLLER UNDERCARRIAGE)

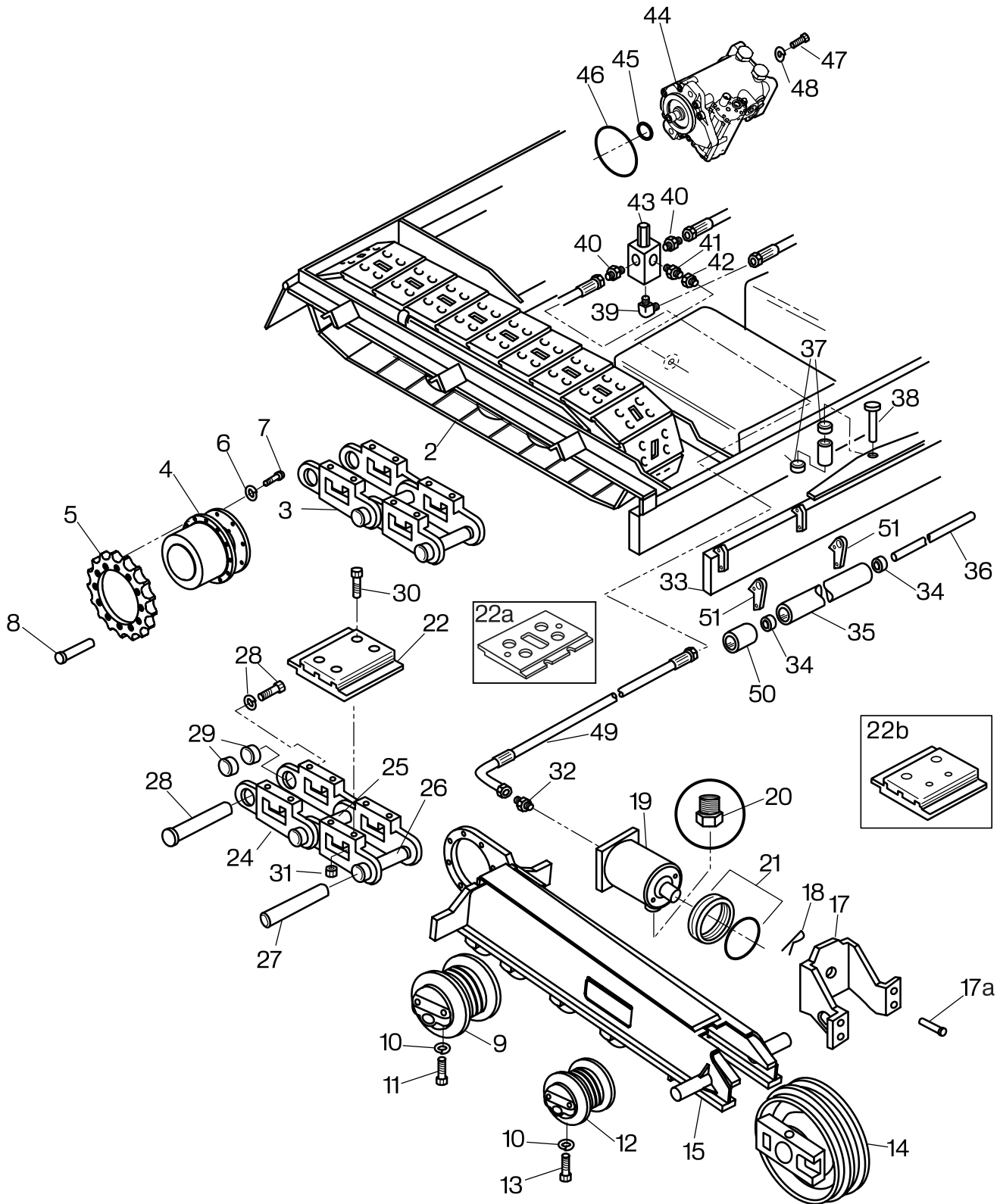


Figure 7-1

Sprocket Drive Track System (4 Roller Undercarriage) Parts List

Item No.	Part Number	Qty.	Description	Remarks
2	851101P	1	Track Assy, One Side, w/Poly Pads	
3	851102	1	Chain Rail, Track Drive	
4	1008779	1	Torque Hub, 47.6:1, w/Brake	
5	1006737	1	Sprocket, Track Drive	
6	81201	7	Washer, Flat, SAE, .625	
7	80983	7	CSHH, .625-11 x 2.00 GR8	
8	81170	12	CSHH, .625-11 x 1.25 GR8	
9	851566	1	Track Roller, B/1	
10	811328	20	Washer, Lock, M12	
11	811330A	8	CSHH, M12-1.50 x 50mm	
12	811326	4	Track Roller, B/O	
13	811330	12	CSHH, M12-1.50 x 40mm	
14	1001589	1	Idler, Track Front	
15	1008788	1	Weldment, Undercarriage LH, Comer	
-	1008789	1	Weldment, Undercarriage RH, Comer	
17	811329A	1	Yoke, Track Idler	
17a	811320	A/R	CSSH, M10-1.50 X 30mm	
18	870307	1	Hair Pin Cotter, .177	
19	811331	1	Cyl, Hyd, Track Tensioner	
20	851644	1	Breather, Track Tensioner Cyl.	
21	811331-01	1	Seal Kit, Hyd. Cyl.	
22	851104	A/R	Track Pad, Poly	
22a	811304	A/R	Cast Track Pad	33 per side
-	851101	A/R	Track Assy, Cast	Not Shown
24	811312	A/R	Link Kit, Track Repair	
25	851460	A/R	Bushing, Track Link, Short	
26	811314	A/R	Bushing, Track	
27	811307	A/R	Pin, Track Link, Plain	
28	811306	A/R	Pin, Track Link, Master	
29	811310	A/R	Spacer, Track Link Bushing	
30	811308	A/R	CSHH, Track Pad	
31	811309	A/R	Nut, Track Pad Cap Screw	
32	2404-10-8	1	Adapter, Hyd. Hose	
33	984283SRV	1	Push Roller Assy, Swivel	
34	850130	4	Bearing, Auger, Axle, Idler	
35	980032	2	Roller Assy, Push Bar, w/Brgs and Shaft	
36	980034	2	Shaft, Push Bar Roller	
37	810070	2	Bushing, 2.00 ID x 2.50 OD x 2.50	

SPROCKET DRIVE TRACK SYSTEM (4 ROLLER UNDERCARRIAGE) (CONTINUED)

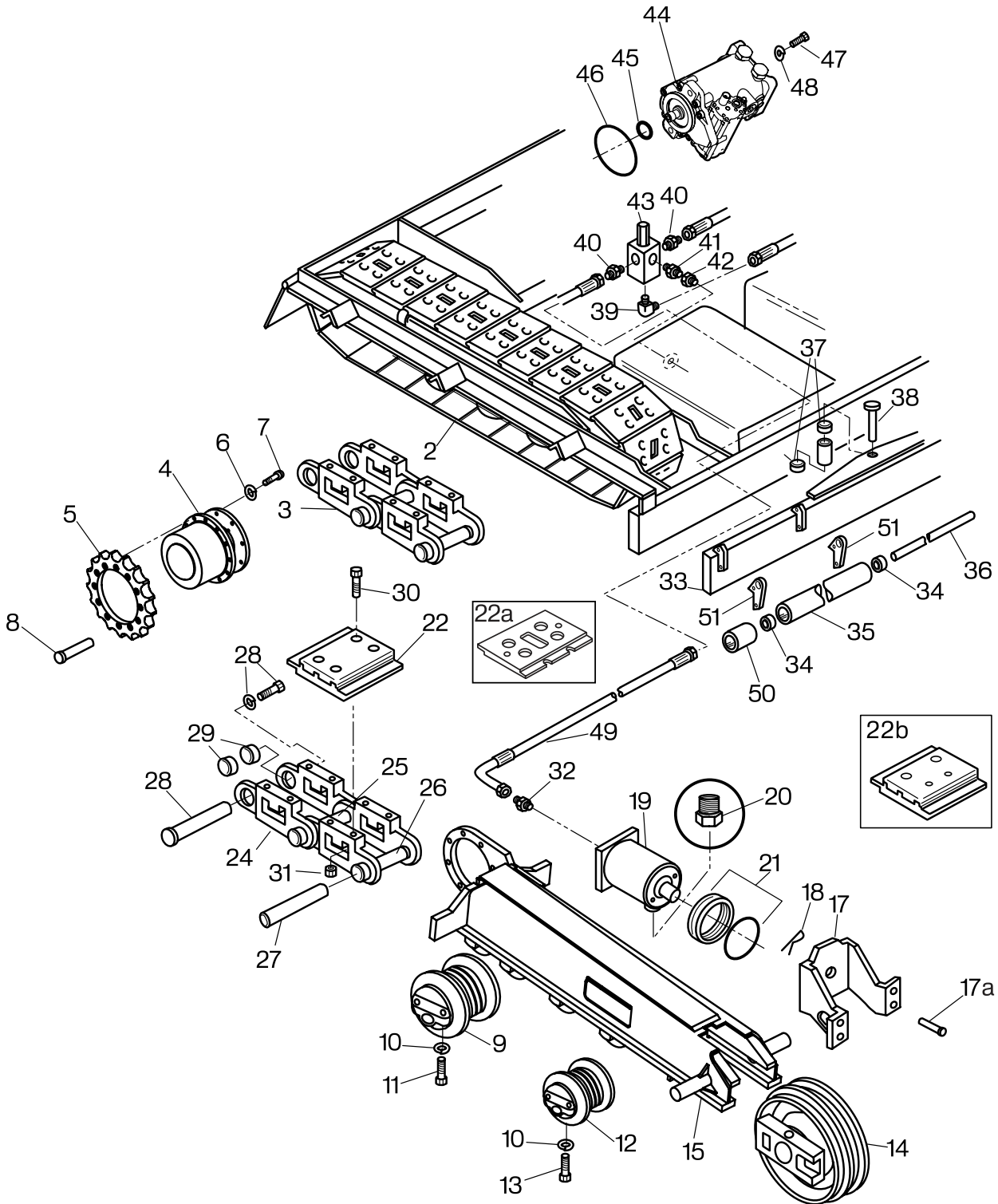


Figure 7-1

Sprocket Drive Track System (4 Roller Undercarriage) Parts List

Item No.	Part Number	Qty.	Description	Remarks
38	810081SRV	1	Pin, Push Bar Swivel	
39	6801-10-8	1	FITT, 90 10MJ-08MB	
40	6400-10-8	1	FITT, Str 10MJ-08MB	
41	6401-8-8	1	FITT, Str 08MP-08MB	
42	5406-12-8	1	FITT	
43	851544	1	Manifold, Track Tensioner	
44	811362	1	Motor, Hyd, Drive, 2 Speed	
45	851489A	A/R	Seal, Hyd Motor/Pump	
46	811366	A/R	O-Ring, Hyd. Motor	
47	811364	2	CSHH, .500-13 x 1.50	
48	118-5	2	Washer, Lock, .500	
49	8550B	1	Hose Assy Track RH Tensioner	
50	980035	2	Roller, Extension Bumper	
51	852664	2	Extension, Front Bumper	
-	1006286	4	Mnt, Push Roller, Extended	Not Shown

RUBBER TRACK UNDERCARRIAGE (5 ROLLER UNDERCARRIAGE)

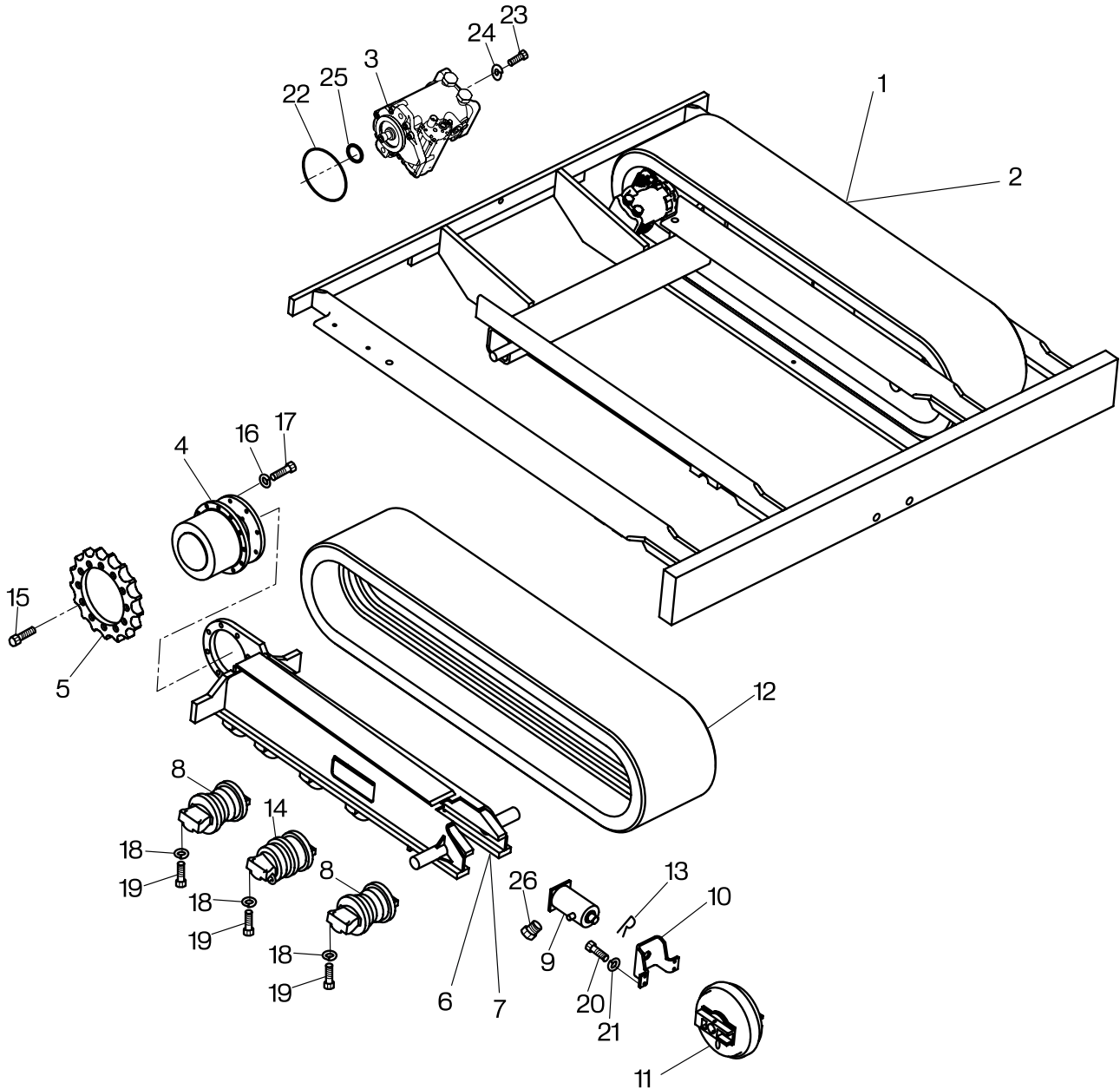


Figure 7-2

Rubber Track Undercarriage (5 Roller Undercarriage) Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980607L	1	Assy In Front Of Under Carriage, LH	
2	980607R	1	Assy In Front Of Under Carriage, RH	
3	811362	1	Motor, Hyd, Drive, 2 Speed	
4	1008779	1	Torque Hub, 47.6:1, w/Brake	
5	1009464	1	Sprocket, Track Drive, 17 Tooth	Rubber Track Only
6	1009466	1	Weldment Undercarriage, Rubber Track, RH	Rubber Track Only
7	1009465	1	Weldment Undercarriage, Rubber Track, LH	Rubber Track Only
8	851566	2	Track Roller, B/1	Rubber Track Only
9	980607-01	2	Cyl, Hyd, Track Tensioner	Rubber Track Only
–	980607-02	A/R	Seal Kit	Not Shown
10	811329A	2	Yoke, Track Idler	
11	983530	2	Idler, Track Front	Rubber Track Only
12	982585	2	Track, Rubber, Continuous	
13	870307	2	Hair Pin Cotter, .177	
14	983588	3	Track Roller, B-1, Inner Flange	Rubber Track Only
15	81170	12	CSHH, .625-11 x 1.25 GR8	
16	81201	7	Washer, Flat, SAE, .625	
17	80983	7	CSHH, .625-11 x 2.00 GR8	
18	811328	20	Washer, Lock, M12	
19	811330A	12	CSHH, M12-1.50 x 50mm	
20	989272-36	4	CSHH, M10-1.50 x 30mm	
21	320142	4	Washer, Lock, M10	
22	811366	A/R	O-Ring, Hyd. Motor	
23	80503	2	CSSH, .500-13 x 1.75	
24	118-5	2	Washer, Lock, .500	
25	851489A	A/R	Seal, Hyd Motor/Pump	
26	851644	1	Breather, Track Tensioner Cyl.	
–	983166	A/R	Track Assy, One Side	30 Pads per side
27	983166-02	A/R	Track Pad, Poly, Heavy Duty	*
–	983166-03	A/R	Chain Rail, Track Drive, Heavy Duty	Not Shown *
–	983166-04	A/R	Pin, Track Link, Master, Heavy Duty	Not Shown *
–	983166-05	A/R	Kit, Track, Heavy Link	Not Shown *
–	983166-06	A/R	CSHH, 135mm, Track Pad Bolt	Not Shown *

*Used only in place of rubber tracks.

CONVEYOR DRIVE ASSEMBLY

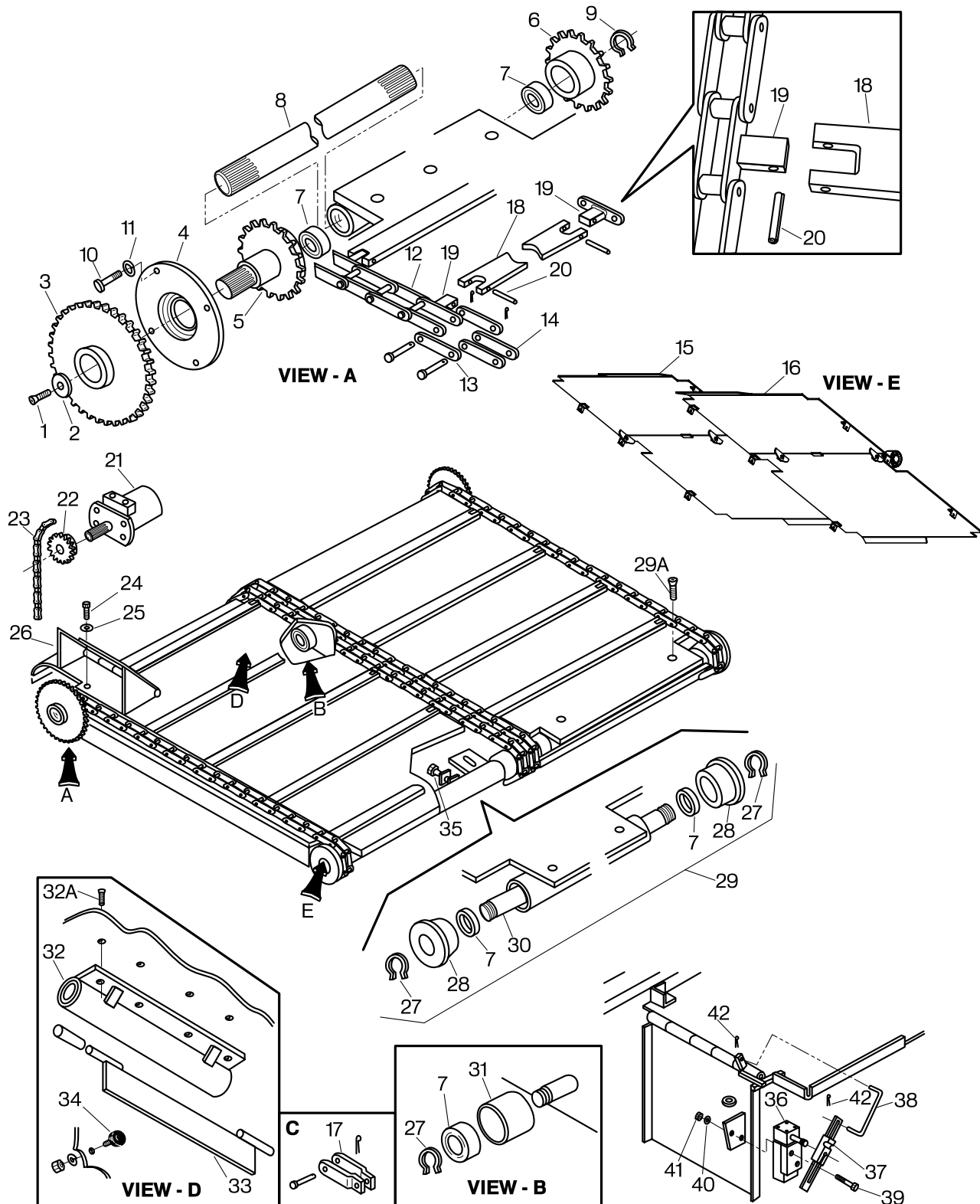


Figure 7-3

Conveyor Drive Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
–	851626SRV	1	Conveyor, Assy. Complete	Not include 1,2,3,4,10,11
–	851627SRV	1	Bed Assy. 8500 Conveyor	Not Shown
1	851111	2	CSHH, .500-13 x 2.00	
2	851112	2	Washer, Counter Sunk, .500	
3	851473	2	Sprocket, Outer Drive	
4	851483	2	Conveyor Mounting Plate With Bearing	
5	851474SRV	2	Sprocket, Outer Dr. C-188	
6	850030	2	Sprocket, Inner Drive C-188	
7	850130	20	Bearing, Auger, Axle, Idler	
8	851116	2	Drive Shaft, Conveyor	
9	850040	2	Snap Ring, Conveyor Drive Shaft	
10	102-405-1A	A/R	CSHH, .500-13 x 1.00	
11	118-5	2	Washer, Lock, .500	
12	851117ASRV	A/R	Conveyor Chain, Assy	
13	850070A	4	Link, Master w/Pins	
14	850080A	A/R	Block Link	
15	851127LSRV	A/R	Belly Pan, LH	
16	851127RSRV	A/R	Belly Pan, RH	
17	850215A	A/R	Half Link, Conveyor Chain w/Pin, Cotter	
18	851118A	A/R	Bar, Conveyor Flight Bar (Quick Change)	Thick side goes toward screed
19	850080B	A/R	Link w/Tab Conveyor Chain Inner	
–	851118-2	A/R	Tab, Conveyor Chain Weld On	Replacement, Not Shown
20	851118-1	2	Pin, Roll Pin (.375 x 2.00)	
21	26130	2	Hyd. Motor, Conveyor Main	
–	1001027-01	A/R	Seal Kit, Hyd. Motor	Not Shown
22	851120	2	Sprocket, Conveyor Drive Motor	
23	851121	2	Chain, Conveyor Drive (#80)	
24	800282	A/R	CSHH, .625 x 1.25	
25	118-7	A/R	Washer, Lock, .625	
26	850038LSRV	A/R	Deflector, Left Side (High Deck)	
–	850038RSRV	4	Deflector, Right Side (High Deck)	Not Shown
27	850040	4	Snap Ring, Conveyor Drive Shaft	
28	850120	4	Idler, Conveyor Chain Front	
29	851123	2	Tube Assy. Conveyor Front Chain Guide	
29A	851653	4	CSSH, .625 x 2.00	
30	851124	2	Shaft, Conveyor Front Idler	
31	850162	4	Roller, Conveyor Chain Guide, w/ Bearing	
32	851651	2	Tube Assy, Conveyor Rear Drive	

CONVEYOR DRIVE ASSEMBLY (CONTINUED)

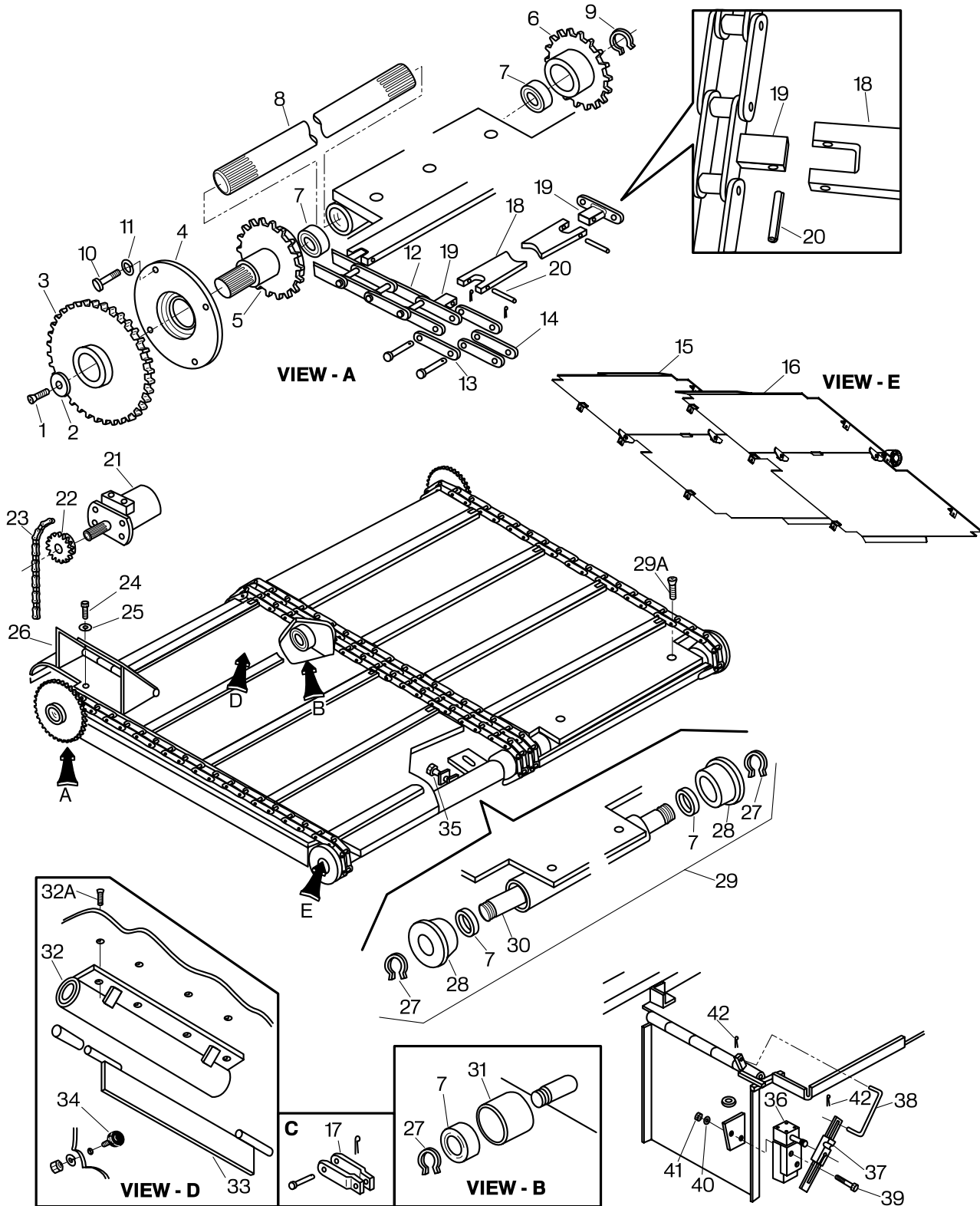


Figure 7-3

Conveyor Drive Assembly Parts List (continued)

Item No.	Part Number	Qty.	Description	Remarks
32A	851652	8	CSSH, .625 x 1.00	
33	851128SRV	2	Scraper, Conveyor	
34	410070	2	Stop Rubber, (Scraper)	
35	850170	4	Set Screw	
36	900050	2	Micro Switch, Auto. Conveyors	
37	900060	2	Arm, Auto. Conveyor Switch	
38	900075	2	Linkage	
39	900076	2	Screws	
40	900077	2	Washer, Lock	
41	900078	2	Nut	
42	900079	2	Pin, Cotter (.250)	
-	850100A	A/R	T-Pin, Casted Conveyor Chain	Not Shown

HOPPER COMPONENTS

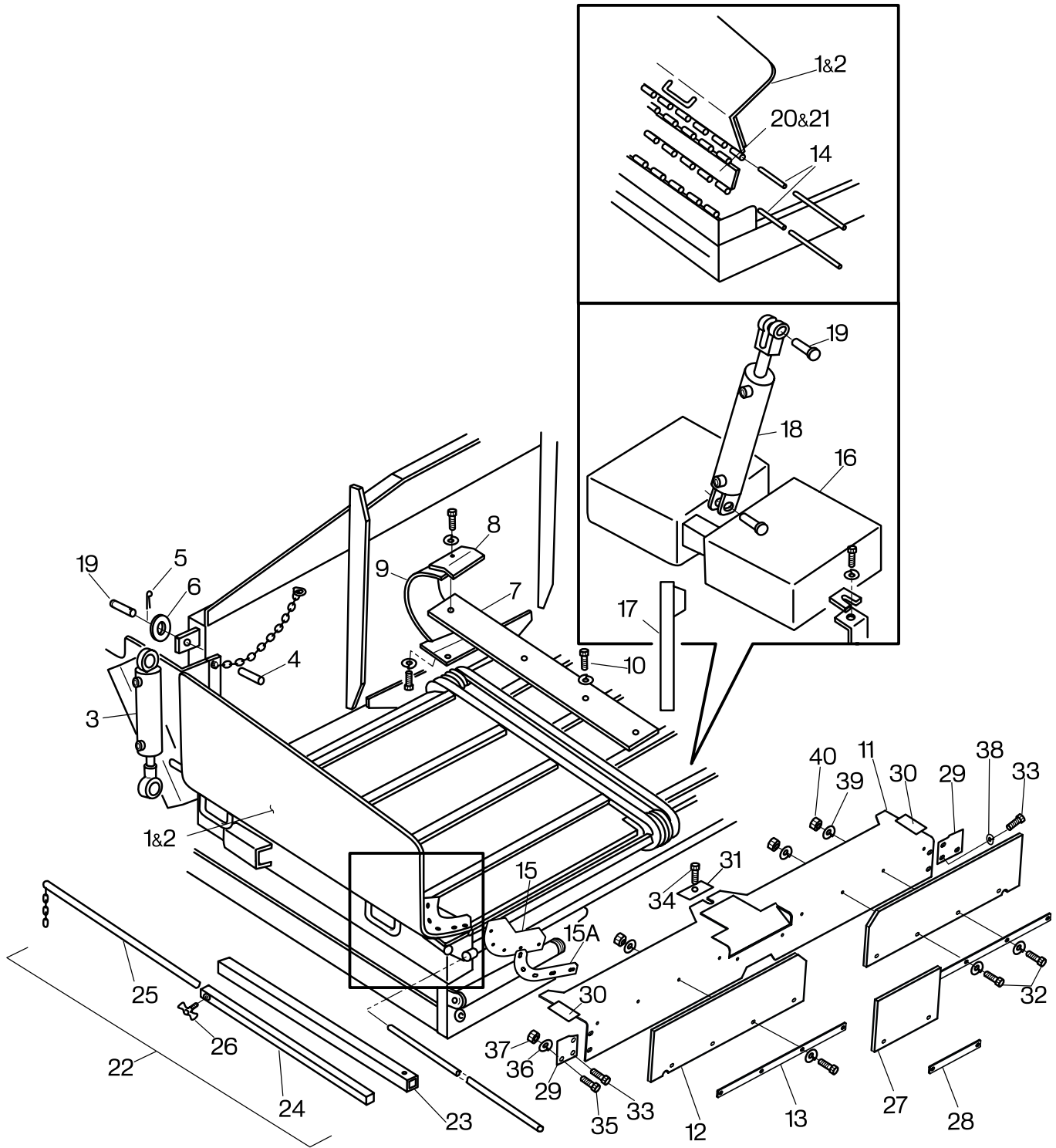


Figure 7-4

Hopper Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	980703	1	Assy, Side Wing, RH 8515	
2	980702	1	Assy, Side Wing, LH 8515	
3	610110	2	Cyl. Hyd. 2.00 x 8.00	
-	610110-01	A/R	Seal Kit	Not Shown
-	930041	A/R	Side Wing Cylinder Bushing	Not Shown
4	851132	2	Pin	
5	870307	4	Hair Pin Cotter, .177	
6	119-10	2	Washer, Flat, SAE, 1.00	
7	851133	1	Shield, 8500 Center Conv.	
8	802112SRV	1	Hold Down	
9	840162	1	Center Shield, Conveyor Rear	
10	851134	6	CSHH, .375-16 x .750	
11	985669SRV	1	Shield, Front Support	
12	985057	2	Shield, Front Hard Rubber	
13	985062SRV	1	Clamp, Hopper Front Flashing	
14	854084SRV	4	Pin, Pivot Side Panel	
15	980728	2	Rubber Side Wing, 8515	
15A	980727	2	Plate, Side Wing Rubber Shield	
16	988049	1	Bottom Tank	
17	987264SRV	1	Safety Prop, Hopper	
18	840020	1	Cylinder, Hopper Lift	
-	840020-01	A/R	Seal Kit, Hopper Wing	Not Shown
19	240030	2	Pin, Hydraulic Cylinder	
20	840157SRV	1	Hinged Panel, L/H	
21	840156SRV	1	Hinged Panel, R/H	
-	81170	A/R	Cshh, .625-11 X 1.25, Gr8	Hold down for item 20,21
-	80146	A/R	Washer, Flat, Uss, .625	Hold down for item 20,21
22	920032SRV	2	Guide Bar Assy	
23	920041SRV	2	Bar, Guide (Outer)	
24	920051SRV	2	Housing, Guide Bar (Inner)	
25	920061SRV	2	Rod & Chain, Guide Bar	
26	920070	2	Thumb Screw, .375-16 x 1.00	
27	985058	1	Rubber, Front Lip, Center	
28	985063SRV	1	Flashing, Center, Front Lip	
29	853598	2	Bar, .375 x 6.25 x 7.00	
30	853595	2	Bar, 125 x 1.50 x 9.50	
31	985581	1	Front Lip Clamp	
32	102-209-1A	10	CSHH, .375-16 x 2.00, GR5	

HOPPER COMPONENTS (CONTINUED)

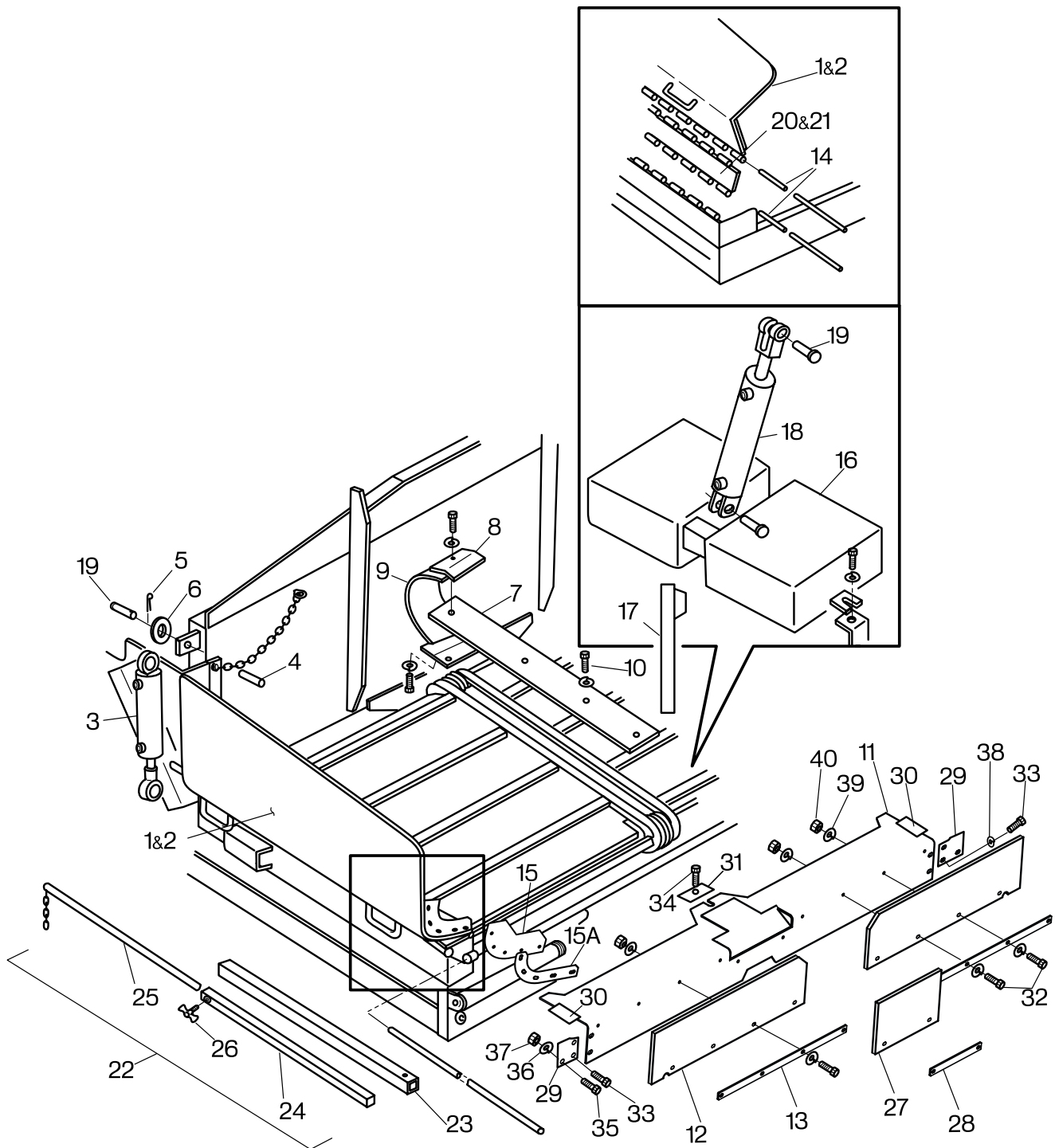


Figure 7-4

Hopper Components Parts List (continued)

Item No.	Part Number	Qty.	Description	Remarks
33	102-407-1A	4	CSHH, .500-13 x 1.50, GR5	
34	851111	1	CSSH, .500-13 x 2.00, GR5	
35	102-607-1A	2	CSHH, .625-11 x 1.50, GR5	
36	118-7	2	Washer, Lock, .625	
37	117-5	8	Nut, Hex, Heavy, .625-11	
38	118-5	4	Washer, Lock, .500	
39	119-3	20	Washer, Flat, SAE, .375	
40	143-3	10	Nut, Lock, .375-16	

AUGER ASSEMBLY

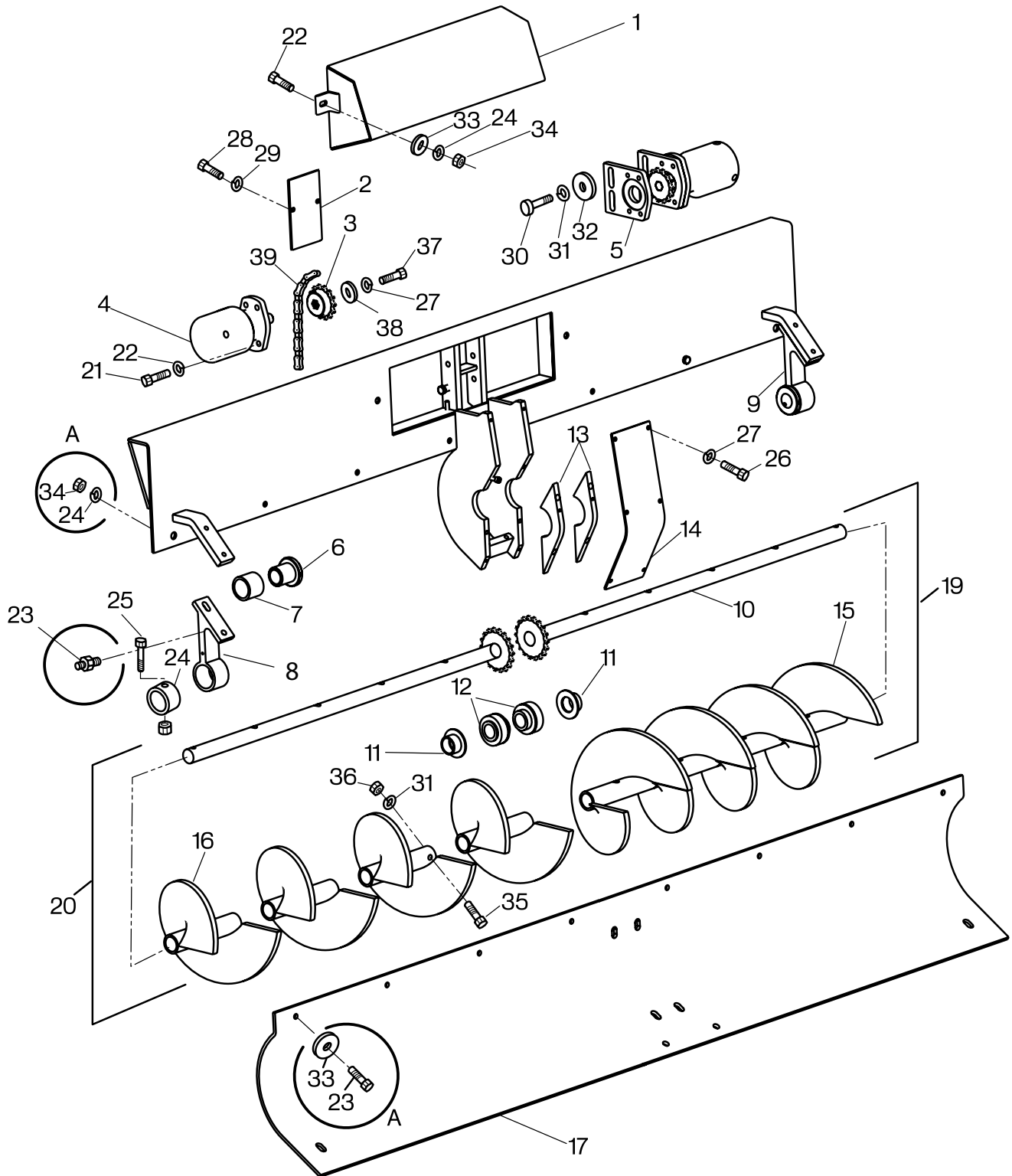


Figure 7-5

Auger Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	981685	1	Assy, Auger Motor Cover, 8515	
2	981688	1	Chain Cover, 8515	
3	860030	2	Sprocket, 800/8500 Auger	
4	260130	2	Hyd. Motor, Conveyor Main	
5	981696	2	Mount, Motor, 8515	
6	851645	2	Collar, Auger End Mount	
7	810070	2	Bushing, 2.00 ID x 2.50 OD x 2.50	
8	860051HDRSRV	1	Auger End Mount, RH 8000/8500	
9	860051HDLSSRV	1	Auger End Mount, LH 8000/8500	
10	981691	2	Auger Shaft w/Sprocket, Spacer & Bearing	
11	982945	2	Assy, Spacer Auger Shaft	
12	850130	2	Bearing, Auger, Axle, Idler	
13	981683	2	Clamp, Auger 12"	
14	981695	1	Cover, Auger Support, 8515	
15	981700R	4	Auger Flight, RH, 12", 8515	
16	981700L	4	Auger Flight, LH, 12", 8515	
17	981699	1	Plate, Wear, 12" Auger, 8515	
19	981692L	1	Auger Assy Complete, LH, 8515	
20	981692R	1	Auger Assy Complete, RH, 8515	
21	811364	8	CSSH, .500-13 x 1.50	
22	118-5	8	Washer, Lock, .500	
23	860045	18	CSSH, .500-13 x 1.50	
24	851647	2	Endcap, Auger Shaft	
25	860045	18	CSSH, .500-13 x 1.50	
26	102-103-1A	6	CSSH, .312-18 x .750	
27	118-2	8	Washer, Lock, .312	
28	102-203-1A	2	CSSH, .375-16 x .750	
29	118-3	2	Washer, Lock, .375	
30	860039	4	CSSH, .625-11 x 1.50	
31	118-7	12	Washer, Lock, .625	
32	120-7	4	Washer, Flat, USS, .625	
33	120-5	14	Washer, Flat, USS, .500	
34	350055	10	Nut, Hex, .500-13	
35	80286	8	CSSH, .625-11 x 2.75	
36	116-7	8	Nut, Lock, .625-11	
37	102-103-1A	2	CSSH, .312-18 x .750	
38	981511	2	Washer, Fender, .375 x 1.50	
39	985815	2	Chain, Auger Drive	

AUGER ASSEMBLY (CONTINUED)

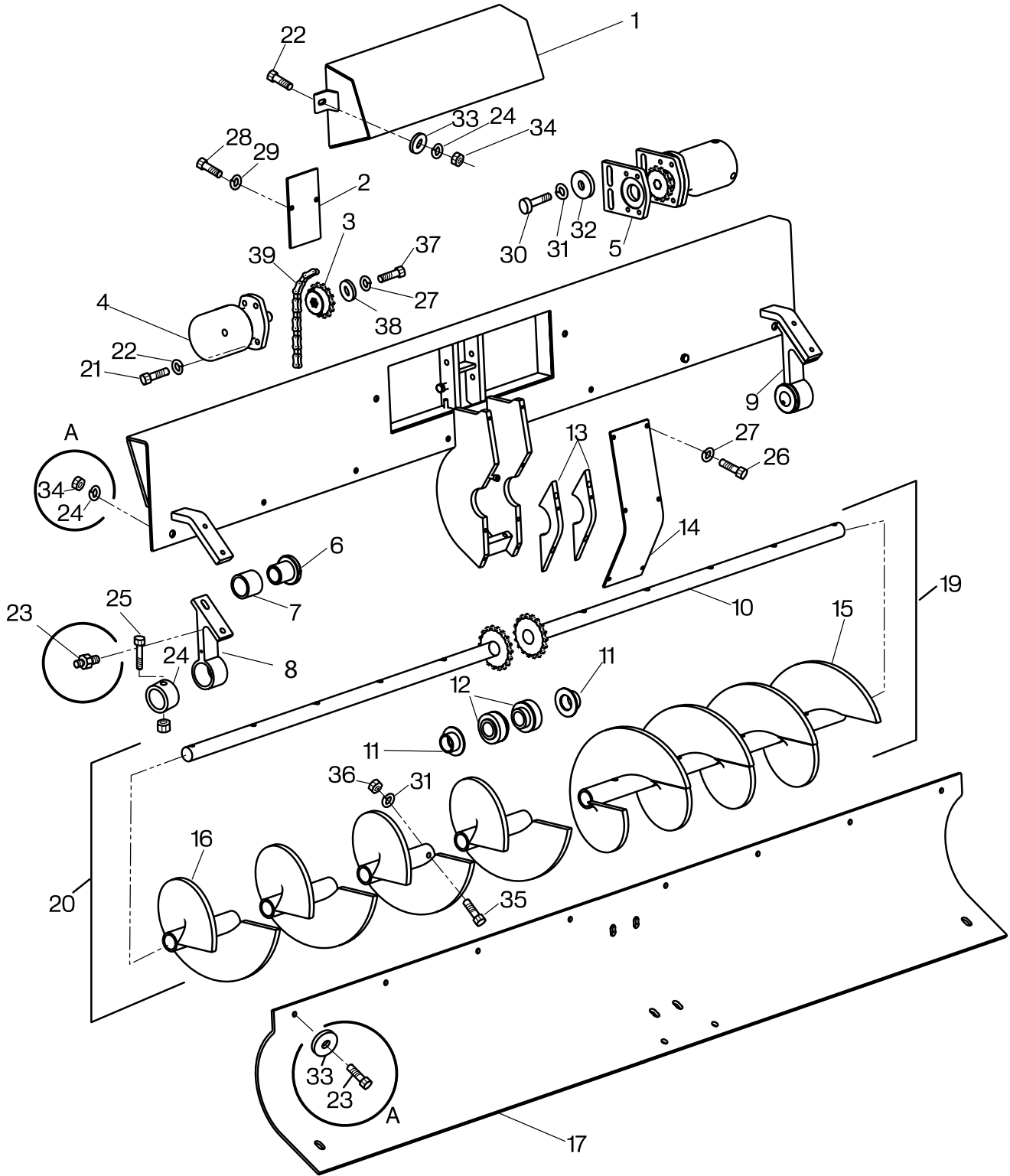


Figure 7-5

Auger Assembly Parts List (continued)

Item No.	Part Number	Qty.	Description	Remarks
–	853411	A/R	Link, Master	Not Shown
–	985796	1	12" Auger Ext RH	Not Shown
–	985795	1	12" Auger Ext LH	Not Shown

CONVEYOR DRIVE CUTOFF, SCREED LIFT CYLINDERS

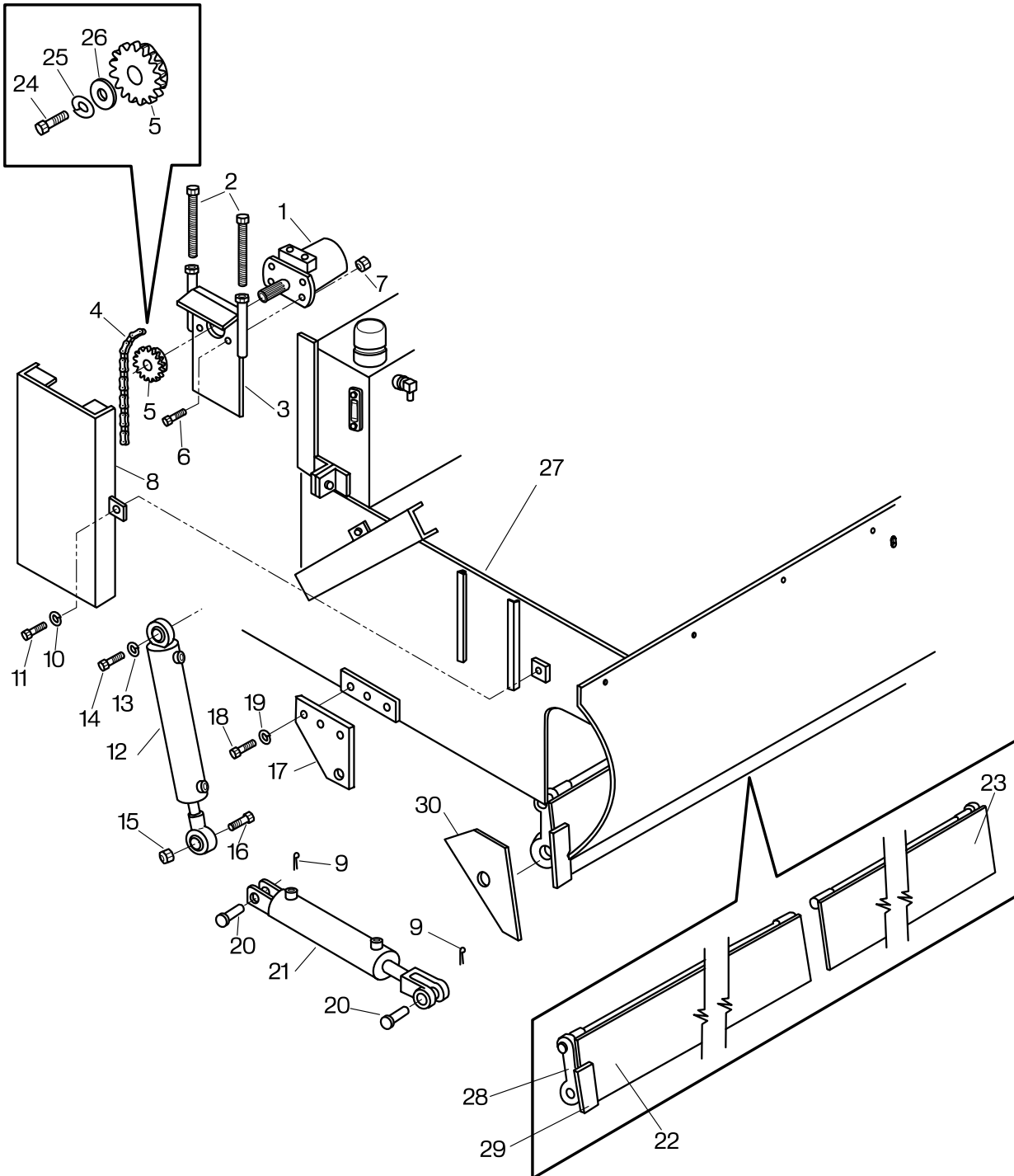


Figure 7-6

Conveyor Drive Cutoff, Screed Lift Cylinders Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	260130	2	Hyd. Motor, Conveyor Main	
2	851148SRV	4	Bolt, Conveyor Drive Chain Adjuster	
3	851149SRV	2	Mount, Conveyor Drive Motor	
4	851121	2	Chain, Conveyor Drive (#80)	
5	851120	2	Sprocket, Conveyor Drive Motor	
6	851111	8	CSHH, .500-13 x 2.00	
7	116-5	8	Nut, .500-13 Hex	
8	854532SRV	1	Chain Guard, Conveyor L.H. Drive	
–	853572SRV	1	Chain Guard, Conveyor R.H. Drive	Not Shown
9	80338	4	Cotter Pin, .188 x 2.00 Long	
10	118-3	6	Washer, Lock, .375	
11	102-203-1A	6	CSSH, .375-16 x .750	
12	851436	2	Hyd. Cyl., Screed Lift (1000c / 8000c / 8500)	
–	851436-01	A/R	Seal Kit, 2.00 Cylinder	Not Shown
13	118-10	2	Washer, Lock, 1.00	
14	100-913-1A	2	CSHH, 1.00-14 x 3.00 GR8	
15	1002464	2	Nut, Lock, 1.00-14	
16	100-915-1A	2	CSHH, 1.00-14 x 3.50 GR8	
17	851152	2	Plate, Cut Off Cylinder Mount	
18	102-607-1A	6	CSHH, .625-11 x 1.50	
19	118-7	6	Washer, Lock, .625	
20	240030	2	Pin, Hydraulic Cylinder	
21	910170	2	Hyd. Cyl., Cutoff	
–	910170-01	A/R	Seal Kit, 2.50 Cylinder	Not Shown
22	851153SRV	1	Cutoff Left Side	
23	851154SRV	1	Cutoff Right Side	
24	102-5-1A	2	CSHH, .250-20 x 1.00	
25	118-1	2	Washer, Lock, .250	
26	860036	2	Washer, Fender (.250)	
27	Reference	1	Frame Body	Reference Only
28	853497	2	Plate, 8000-8500, Cut Off Cylinder Mount	
29	853593SRV	2	Bar, .250 x 2.00 x 7.00	
30	853596	2	Plate, Cut Off Gusset	

HYDRAULIC COMPONENTS LH SIDE FUEL TANK

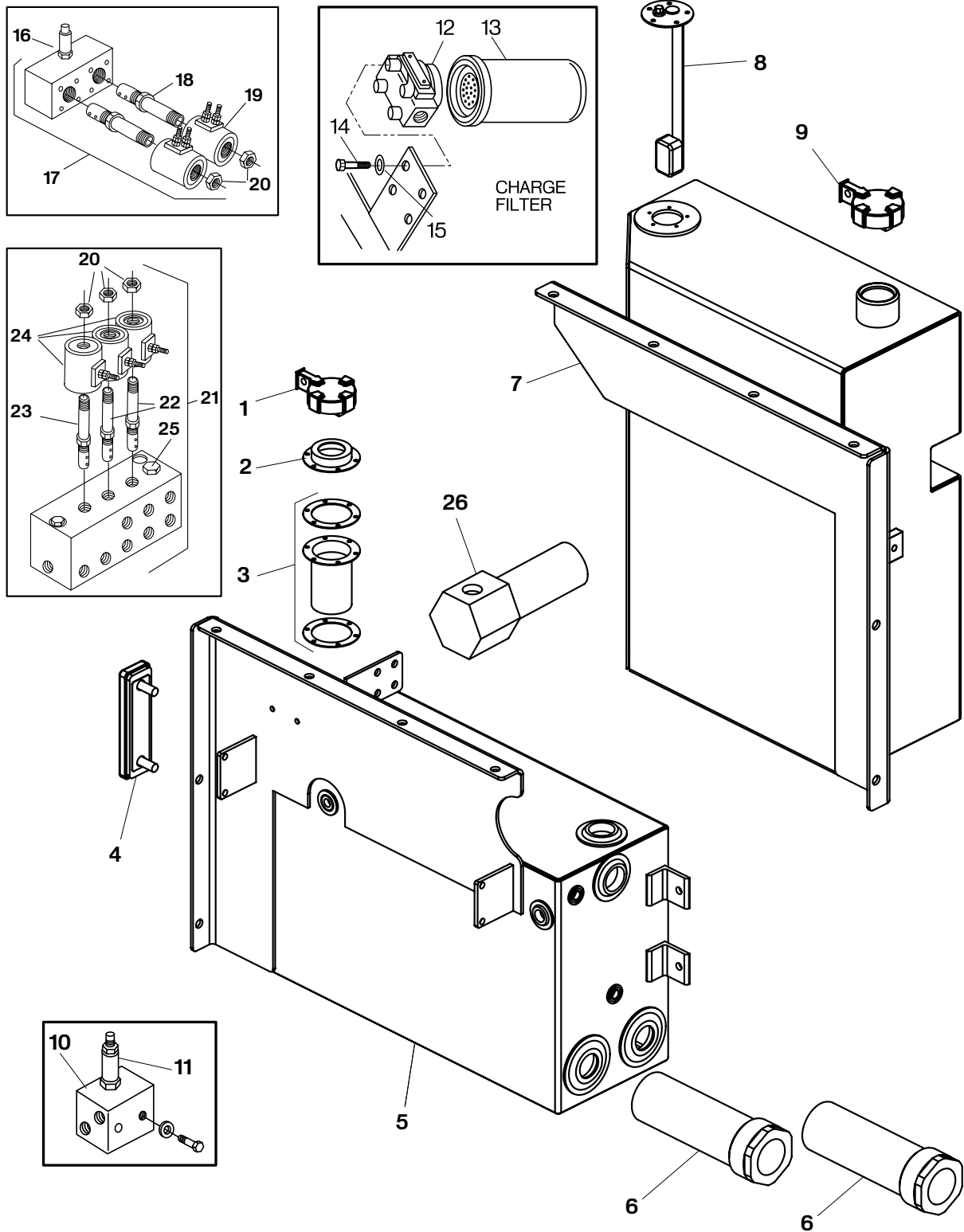


Figure 7-7

Hydraulic Components LH Side Fuel Tank Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	140030HL	1	Cap, Hyd Tank, Lockable	
2	140030FN	1	Filler Neck	
3	140030GK	1	Strainer & Gasket Kit	
4	500070	1	Sight Gauge, Hyd. Oil Temp/Level	
5	1003410SRV	1	Assy, Tank Hydraulic, 8515B	
6	36123	2	Filter, Hydraulic	
7	1009361	1	Assy, Tank Fuel, 8515B	Includes Item 8, 9
8	140040	1	Sending Unit, Fuel Tank	
9	140030FL	1	Cap, Fuel Tank, Lockable	
10	910122	1	Manifold, Side Wing	
11	910122-1	1	Relief Valve, Side Wing Manifold	
12	290010	1	Filter, Head, Charge/Return	
13	290030	1	Filter, Element, Charge/Return	
14	102-205-1A	4	CSHH, .375-16 x 1.00	
15	118-3	4	Washer, Lock, .375	
16	851628A-3	A/R	Valve, Relief, Conveyor Manifold (HPS)	
17	851628A	1	Manifold, Auto Conveyor (HPS)	
18	851628A-1	1	Cartridge Valve, Auto Conveyor (HPS)	
19	851628A-2	2	Coil, 12V (HPS)	
20	851628-3	2	Nut, Coil Retainer (HPS)	
21	850001	1	Manifold, Auto Auger/ 2-Speed (HPS)	
22	851235	2	Cartridge Valve, Auto Auger (HPS)	
23	851236	1	Cartridge Valve, 2-Speed (HPS)	
24	851237A	3	Coil, w/Diode, 12V	
25	851689	1	Flow Divider Screed	
26	984594-01	1	Filter, Element Hydraulic	

H1 PUMP & CONTROLS

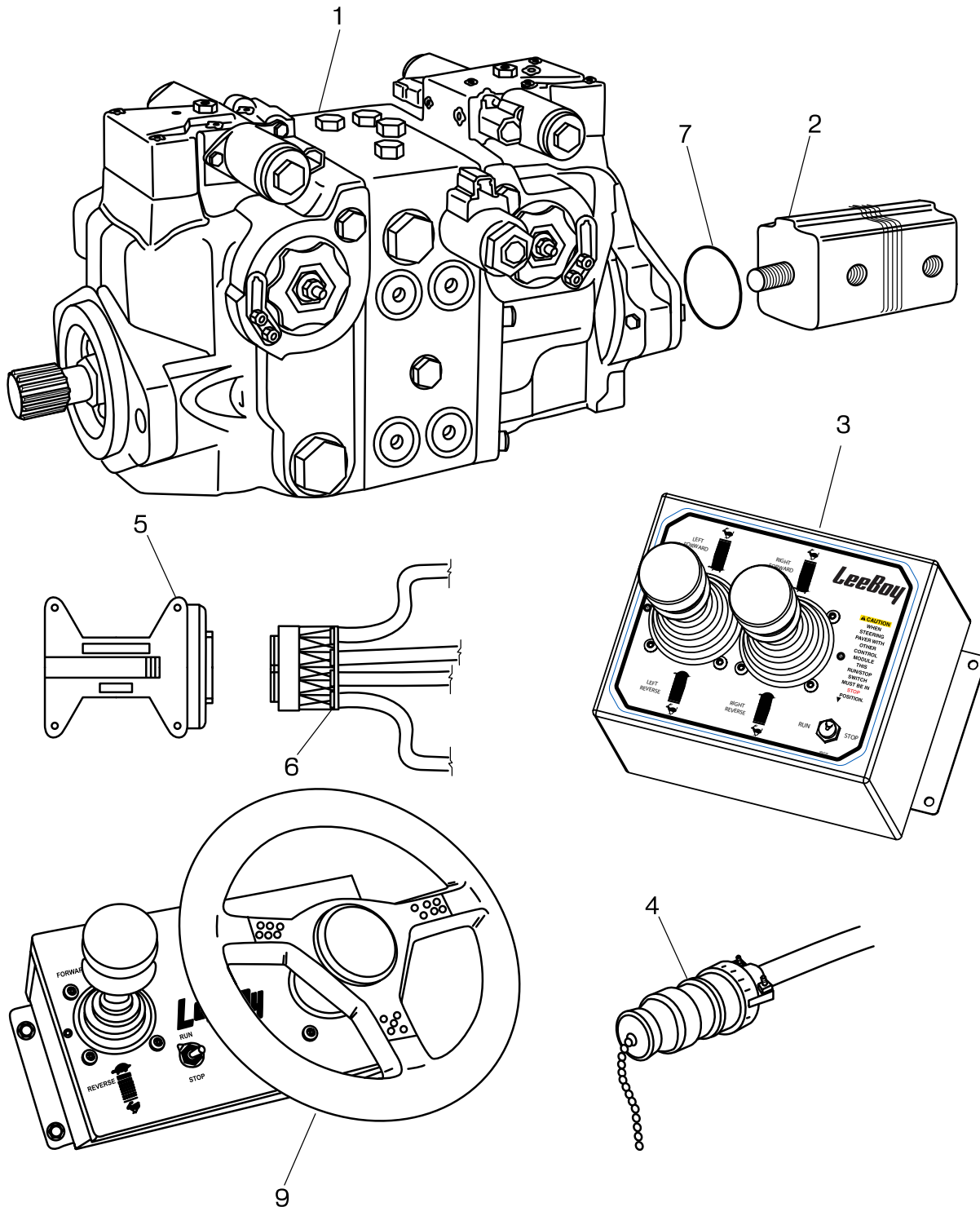


Figure 7-8

H1 Pump & Controls Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	986519	1	Pump, Hyd. Single w/EDC (new: H-1 Pump)	
–	986519-01	A/R	Coil, Control Bypass H-1 Pump	Not Shown
–	986519-02	A/R	Nut, Plastic, H-1 Pump	Not Shown
–	986519-03	A/R	Kit, Shaft, H-1 Pump	Not Shown
2	987473	1	Pump, Aux. H-1, 11T Spline	
3	987134	2	Dual Joysticks, Control Box, Plus One	
4	851548-04	2	Cord, 4 Ft , Electronic Steering	
5	1010161	1	Controller, 50 DIN,. Plus One	
6	987133	1	Harness, Plus One to Pumps	
7	36808	1	O-Ring, Piggyback to Main	
9	1000708	2	Steering Wheel, Control Box, Plus One	
–	160320	1	Horn, Backup Alarm	Not Shown
–	490010	A/R	Handle Grip for Steering Box Handle	Not Shown
–	851540	A/R	Potentometer, Steering Box	Not Shown
–	987134-01	A/R	Potentometer, Dual Joystick	Not Shown
–	987134-02	A/R	Joystick, Dual Joystick Box	Not Shown
–	987134-03	A/R	Knob, Dual Joystick Box	Not Shown
–	72026-01	A/R	Switch, Limit Spdt	Not Shown
–	851391	A/R	Switch, Toggle,Spst, 2-Pos	Not Shown

Kubota Engine Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1009253	Ref.	Engine, Kubota, Tier 4i, 87.5Hp, 8515	
2	1002676-02	1	Drive Plate Assy,Sae #4,B Mnt	
3	1002676-03	1	Coupling, Drive Plate	
4	986537-03	1	Filter Oil Kubota	
-	1009253-18	1	Filter Fuel 8515 Tier 4i	
-	1009253-19	1	Filter Fuel Water Seprator 8515 Tier 4i	
5	1009253-01	1	Bracket,Ecu Mount	
6	1009253-24	1	Ecu Kubota Tier 4i	
7	1009253-22	1	Thermal Heat Shield	
8	1001166-03	1	Starter, Kub, Tier3, V3600tb	100Amp
9	1009253-21	1	Alternator, 8515 Tier 4i	
10	1009253-31	1	Bracket, Altenator	
11	1009253-29	1	Bracket, Harness	
12	1009253-30	1	Mounting Plate	
13	1009253-26	1	Mount Fuse Plate	
14	985751	1	Relay, 12Vdc, Spst, 100 Amp, Hd	
15	1009253-27	1	Fuse Holder	
16	1009253-28	1	Relay And Fuse Block	
17	988673-14	2	Engine Mount, Rear, Kub	
18	986537-17	1	Mount, Motor RF Kubota	
19	986537-16	1	Mount, Motor LF Kubota	
20	986537-14	4	Isolator	
21	1009253-20	1	Belt, Fan 8515 Tier 4i	
22	1009253-23	1	Fan, Radiator 8515 Tier 4i	
23	1005365-23	1	Guard, Fan, Maintainer	
24	986537-21	1	Hose, Radiator, Upper	
25	1001166-15	1	Hose, Radiator, Lower, Kub	
26	986537-43	1	Radiator Support Plate	
27	986537-45	1	Radiator Brace	
28	986537-42	1	Radiator Support Plate Foot	
29	1001166-60	1	Bumper Assy, Rad Isolator Mnt	
30	986537-40	1	Fan Shroud	
-	1001166-56	4	Plug, Hole Cover, Rad Shroud	
31	988673-13	1	Radiator/Cooler Assy, Kub	
32	1002184-04	1	Cap, Radiator, 13.5Psi, 2.25"Neck	
33	1001166-59	2	Isolator, Rad Lower Mnt	
34	1001166-58	2	Plate, Rad Isolator Mnt	
35	1001166-57	2	Isolator, Rad Upper Mnt	

KUBOTA ENGINE (CONTINUED)

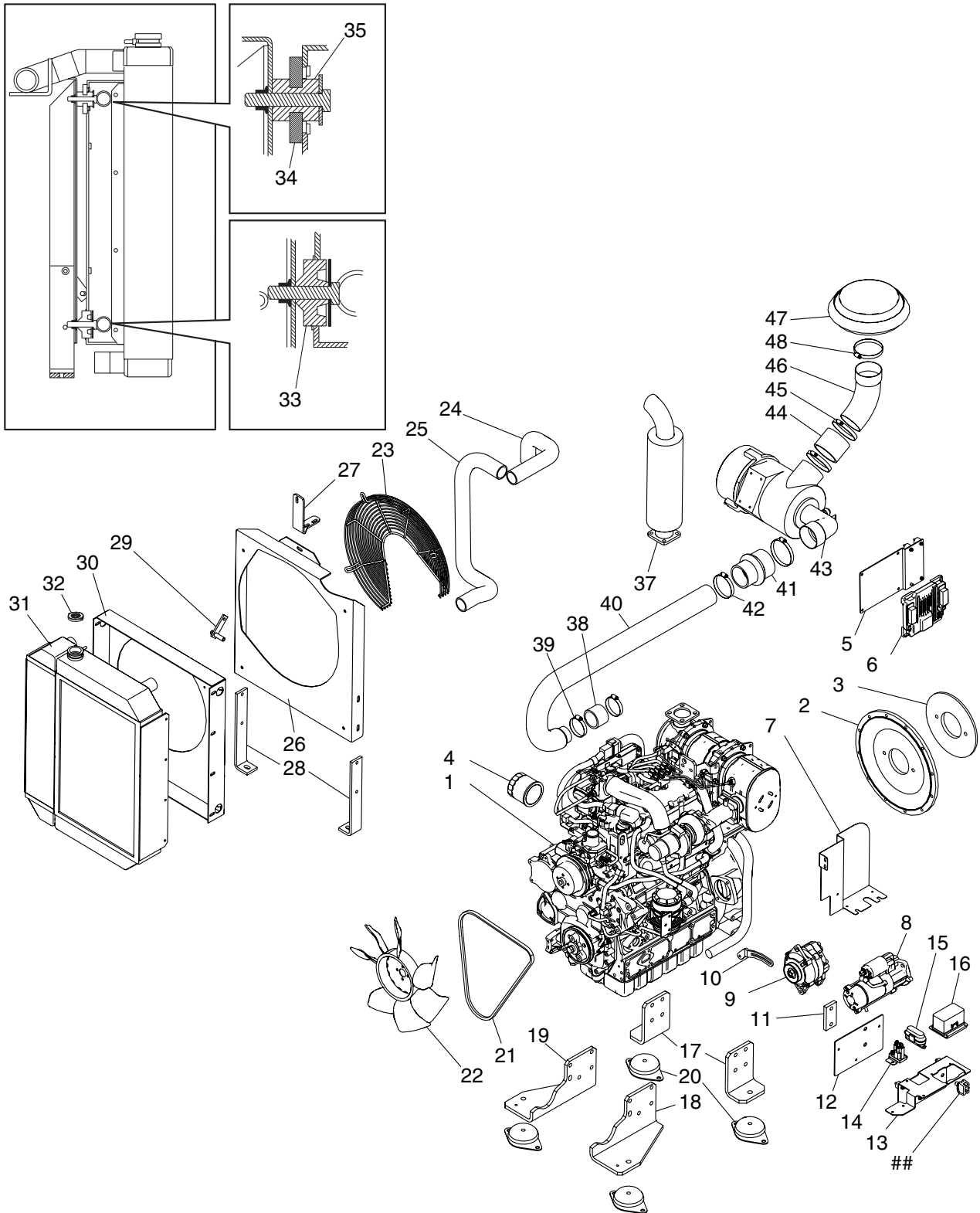


Figure 7-9

Kubota Engine Parts List (continued)

Item No.	Part Number	Qty.	Description	Remarks
37	1009253-11	1	Tail Pipe, 8515C Tier 4i	
38	1009253-32	1	Sleeve, Rubber, Intake	2.38 ID
39	33437	2	Hose Clamp, #40	
40	1009253-14	1	Pipe, Intake, Lower	
41	1009253-25	1	Sleeve, Rubber, Intake Reducer	
42	35567	2	Hose Clamp, #60	
43	1010255	1	Assembly, Air Breather, Tier 4i	
-	1009253-17	1	Filter, Air Primary 8515 Tier 4i	
-	1009253-16	1	Filter, Air Secondary 8515 Tier 4i	
44	1009253-15	1	Sleeve, Rubber, Intake	
45	35567	2	Hose Clamp, #60	
46	1009253-13	1	Pipe, Air Intake, Upper, Elbow	
47	1002917-29	1	Hood, Air Inlet, 3.75	
48	35567	1	Hose Clamp, #60	
-	1009253-41	1	Relay, Kubota Power Block	
-	1009253-36	1	Fuel Sender Kubota Tier 4	

CUMMINS ENGINE ASSEMBLY

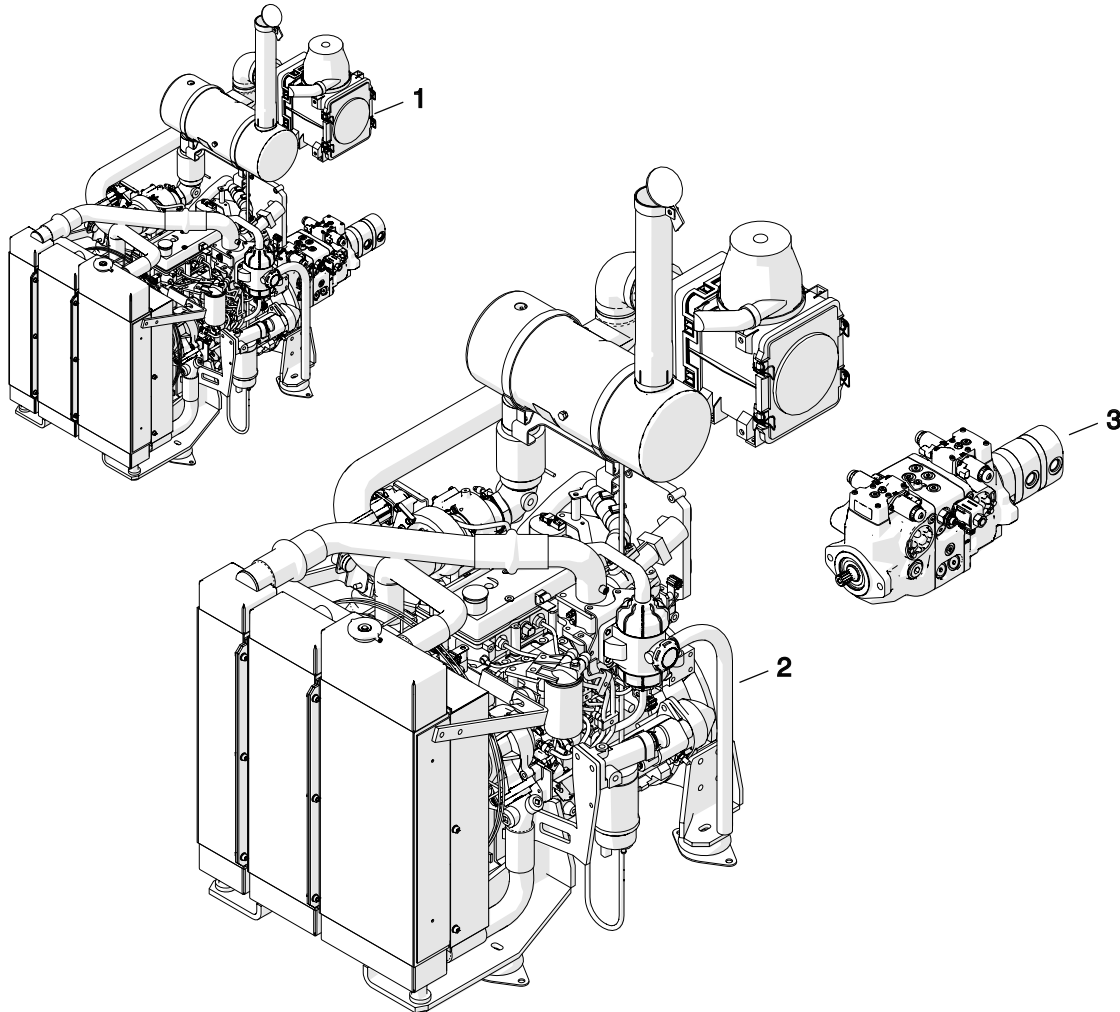


Figure 7-10

Cummins Engine Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1010671	1	Assembly,Cummins Engine With Pumps,Tier 4	
2	1010076	1	Engine,Cummins 8515 Tier 4I	
3	987574	1	Pump Assembly,H1 W/Aux Pump	

CUMMINS PUMP ASSEMBLY

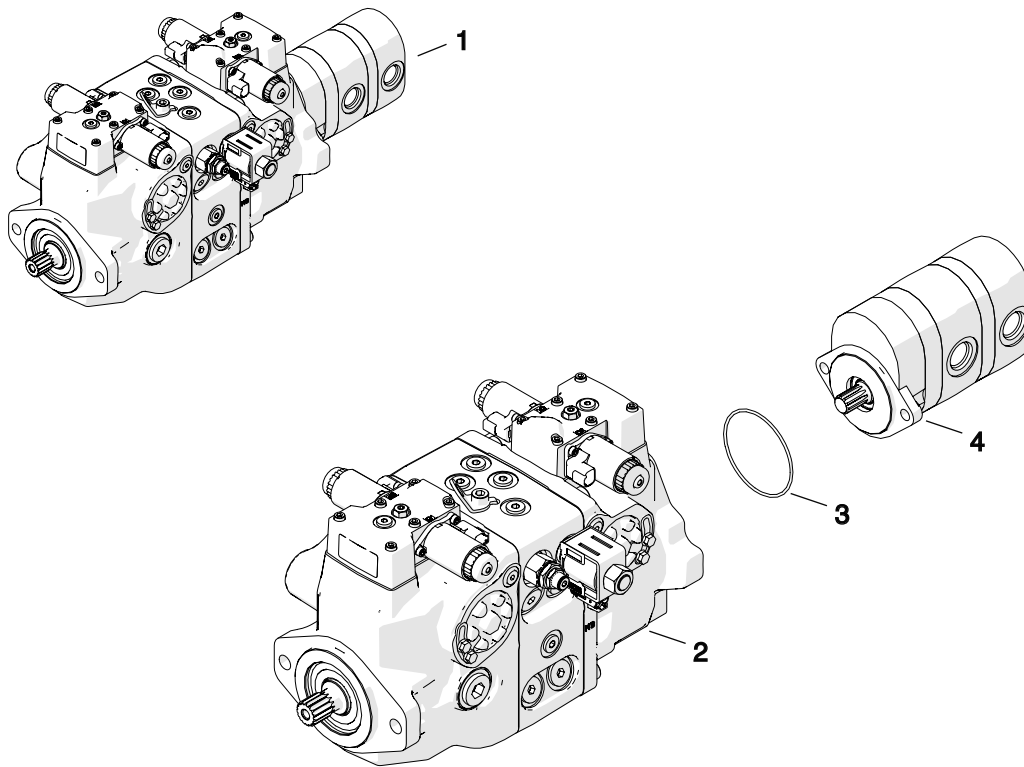


Figure 7-11

Cummins Pump Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987574	1	Pump Assembly, H1 W/Aux. Pump	
2	986519	1	Pump, Hyd., Tandem, H1 W/EDC	
3	36808	1	O-Ring, 3.237 ID X 0.103,SAE 152	
4	987473	1	Pump, Hyd., Aux., H1, 11TH, 23CC / 17CC	

CUMMINS ENGINE

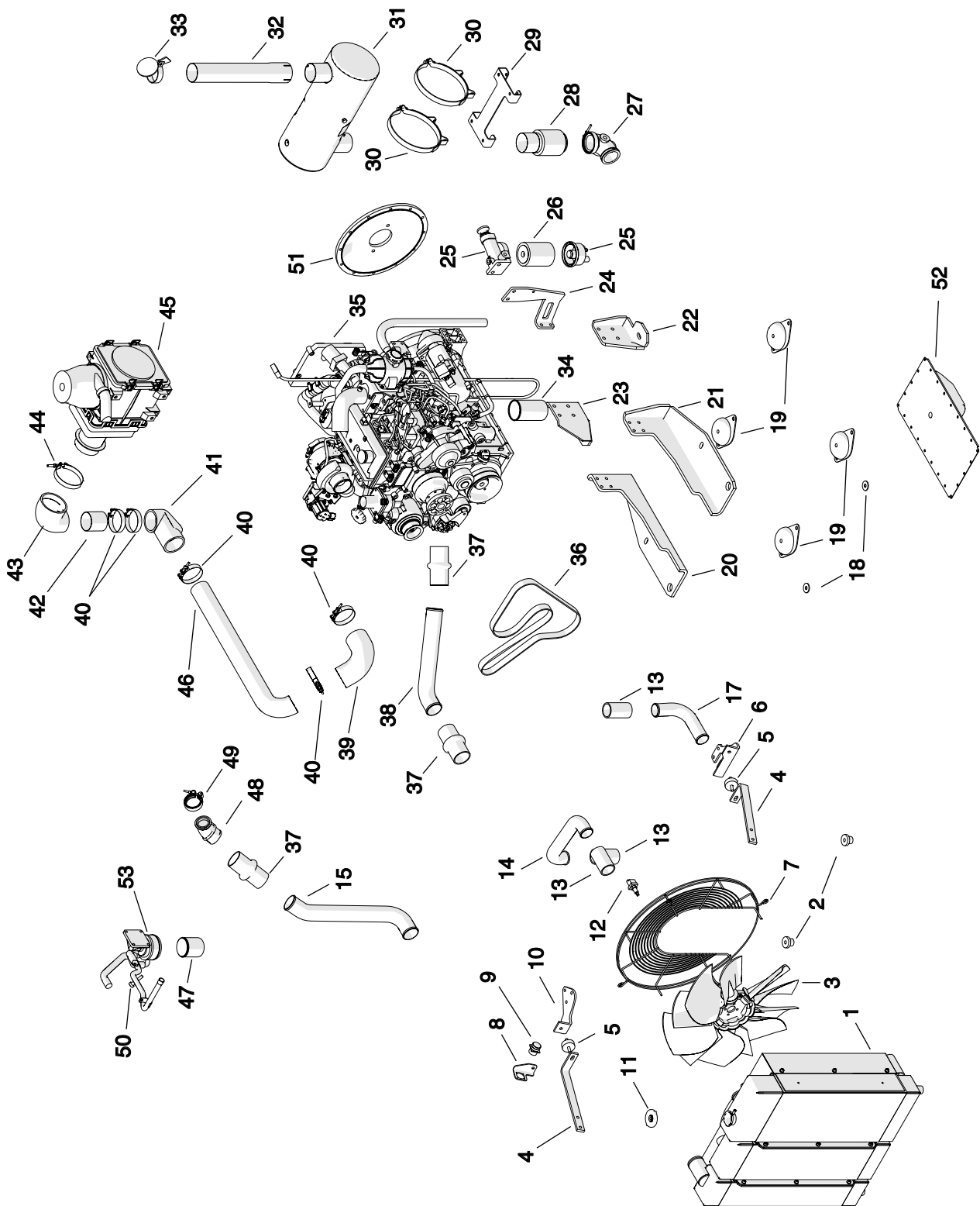


Figure 7-12

Cummins Engine Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1010076-04	1	Radiator Assembly	
2	1010076-05	2	Isolator	
3	1010076-06	1	Radiator Fan	
4	1010076-07	2	Radiator Mount	
5	1010076-08	2	Isolator	
6	1010076-09	1	Radiator Bracket, LH	
7	1010076-10	1	Fan Guard	
8	1010076-11	1	9-Pin Bracket	
9	1010076-12	1	Deutsch Connector	
10	1010076-13	1	Radiator Bracket, RH	
11	1009242-14	1	Cap, Radiator, 14 Psi	
12	1010076-14	1	Sensor	
13	1010076-15	3	Silicone Hose, 4 Inch	
14	1010076-16	1	Upper Water Pipe	
15	1010076-17	1	Lower CAC Pipe	
17	1010076-18	1	Lower Coolant Pipe	
18	1010076-19	2	Washer	
19	986537-14	4	Isolator	
20	1010076-20	1	Front Leg Weldment, RH	
21	1010076-21	1	Front Leg Weldment, LH	
22	1010076-22	1	Rear Foot, LH	
23	1010076-23	1	Rear Foot, RH	
24	1010076-24	1	Fuel Prefilter Bracket	
25	1010076-25	1	Bowl, Fuel Separator	
26	1010076-26	1	Fuel/Water Separator Filter	
27	1010076-27	1	Exhaust Elbow	
28	1010076-28	1	Pipe, Waterproof Turbo To Muffler	
29	1010076-29	1	Muffler Riser	
30	1010076-30	1	Muffler Mount	
31	1010076-31	1	Muffler	
32	1010076-32	1	Exhaust Stack	
33	101119-22	1	Exhaust, Flapper, Rain Cap	
34	1010076-33	1	Fuel Filter	
35	1010076-34	1	ECU	
36	1010076-35	1	Belt, V-Ribbed	
37	1010076-36	3	Coupler	
38	1010076-37	1	Upper CAC Pipe	

CUMMINS ENGINE (CONT.)

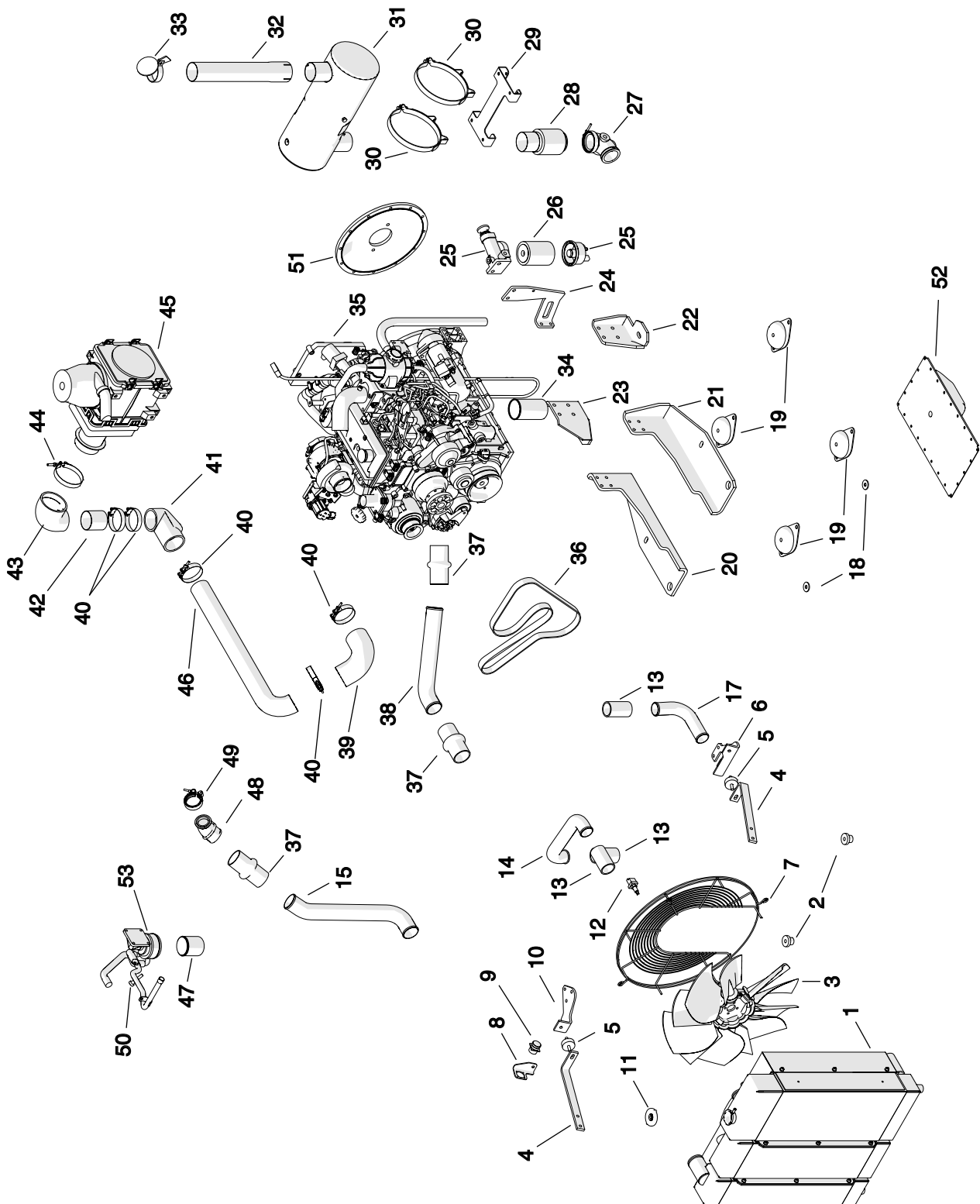


Figure 7-12

Cummins Engine Parts List (Cont.)

Item No.	Part Number	Qty.	Description	Remarks
39	1010076-38	1	Intake Elbow	
40	1010076-39	4	Clamp	
41	1010076-40	1	Intake Elbow, Short	
42	1010076-41	1	Connector Pipe	
43	1010076-42	1	Reducing Elbow	
44	1010076-43	1	Clamp	
45	1010076-44	1	Air Box	
46	1010076-45	1	Intake Pipe	
47	1010076-46	1	Oil Filter	
48	1010076-47	1	Turbo Intake	
49	1010076-48	1	Turbo Intake Clamp (to Engine)	
50	1010076-49	1	Dipstick, Oil	
51	1001166-11	1	Plate, Pump, Mnt., Kub	
52	1010076-50	1	Oil Pan	
53	1010076-51	1	Oil Filter Housing	
Ref	1010076-01	1	Filter, Air Secondary	
Ref	1010076-02	1	Filter, Air Primary	

SPRAY DOWN

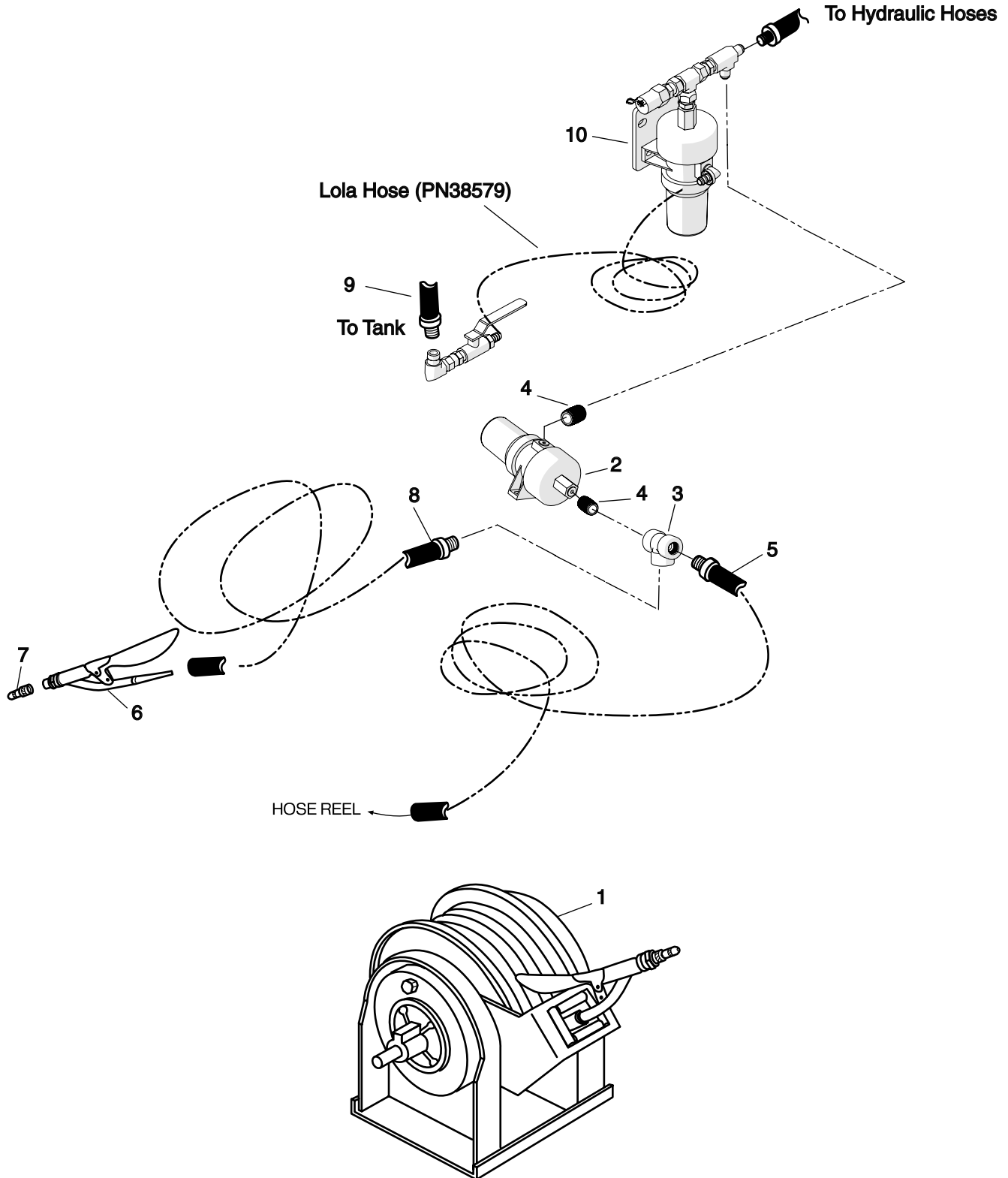


Figure 7-13

Spray Down Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	920200	1	Hose Reel, Machine Washdown	
2	1011738	1	Pump, Spraydown	
3	920222	1	Tee, .375	
4	99638	1	Nipple, .375	
5	984338	1	Hose, Pump to Hose Reel, 5'	
6	920220	2	Handle & Nozzle, Spraydown	
—	33277	2	Clamp, Hose #4	
7	901210A	A/R	Nozzle, Spraydown Handle	
8	984339	2	Hose, 15'	to Spraydown Handle
9	1011885	1	Hose, 15'	to Tank
10	1011885	A/R	Kit, Spraydown Pump	

SCREED ARM ASSEMBLY WITH TOE POINT

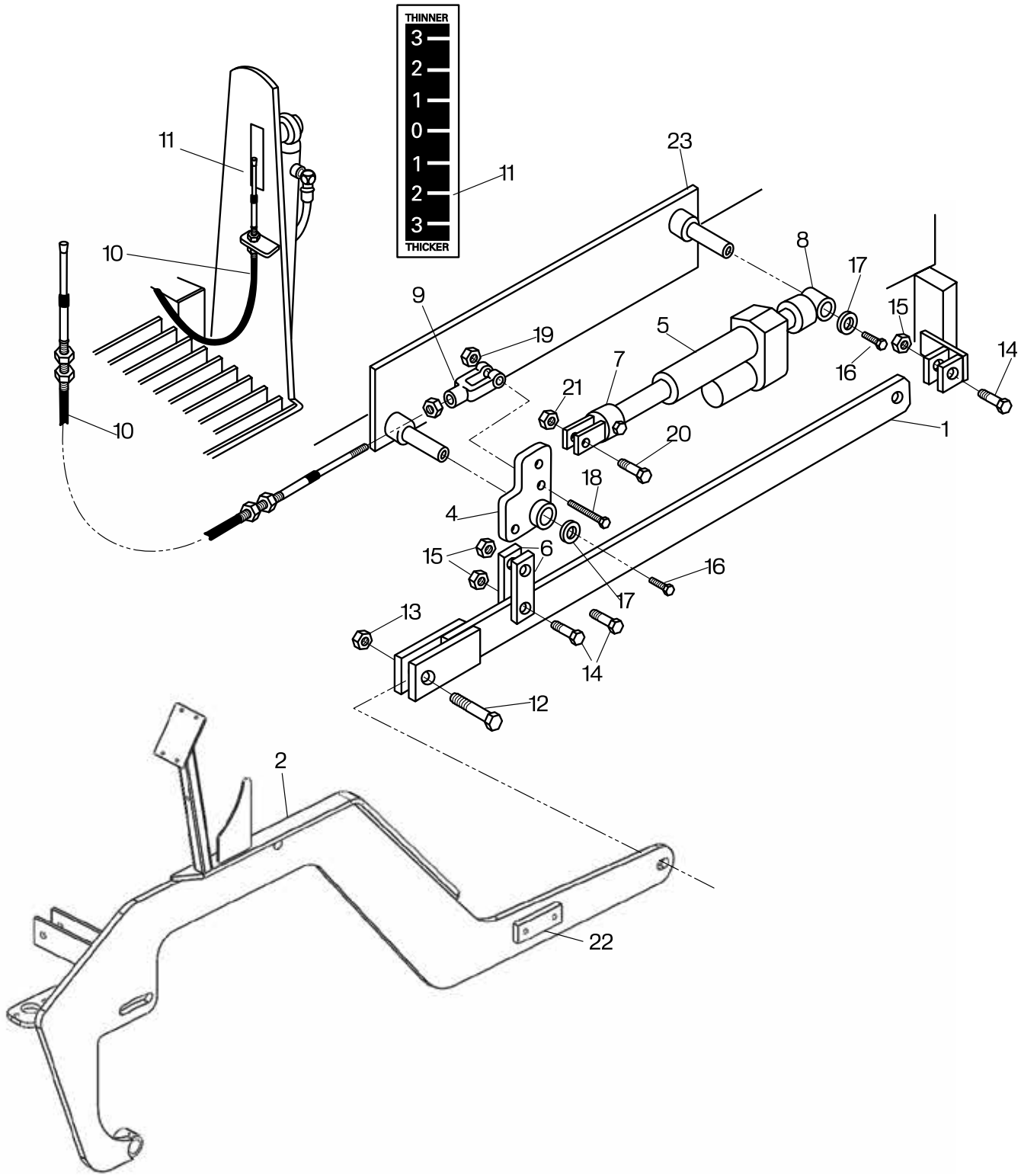


Figure 7-14

Screed Arm Assembly With Toe Point Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851206SRV	1	Extension, Screed Arm	
2	984896SRV	1	Assy, Screed Arm, 8515, RH	Reference Only, See Fig 10-46
–	984897SRV	1	Assy, Screed Arm, 8515, LH	Reference Only, See Fig 10-45
4	851209SRV	1	Mount, Pivot	
5	851518	2	Screw, Electric (6.00")	
6	851210SRV	2	Ears, Pivot	
7	851211	1	End, Rod End of Screw	
8	851212	1	End, Motor End of Screw	
9	851213	1	Clevis, .188 x .250	
10	851520	1	Cable, Height Locator .188 x 90 w/5.00" Stroke	
11	851215	1	Decal, Height	
12	102-411-1A	1	CSHH, .500-13 x 2.50	
13	116-10	1	Nut, Lock 1.00-8	
14	102-611-1A	3	CSHH, .625-11 x 2.50	
15	116-7	3	Nut, Lock, .625-11	
16	851134	2	CSHH, .375-16 x .750	
17	119-3	2	Washer, Fender .375	
18	102-9-1A	1	CSHH, .250 x 2.00	
19	116-1	1	Nut, Lock, .250	
20	102-408-1A	2	CSHH, .500-13 x 1.75	
21	115-5-A	2	Nut, Lock, .500	
22	855568	1	Bracket, Grade Control	
23	853586SRV	1	Mounting Plate 6" Electric Screw, RH	
–	853585SRV	1	Mounting Plate 6" Electric Screw, LH	Not Shown

PROPANE HEATER AND AUTOMATIC IGNITORS

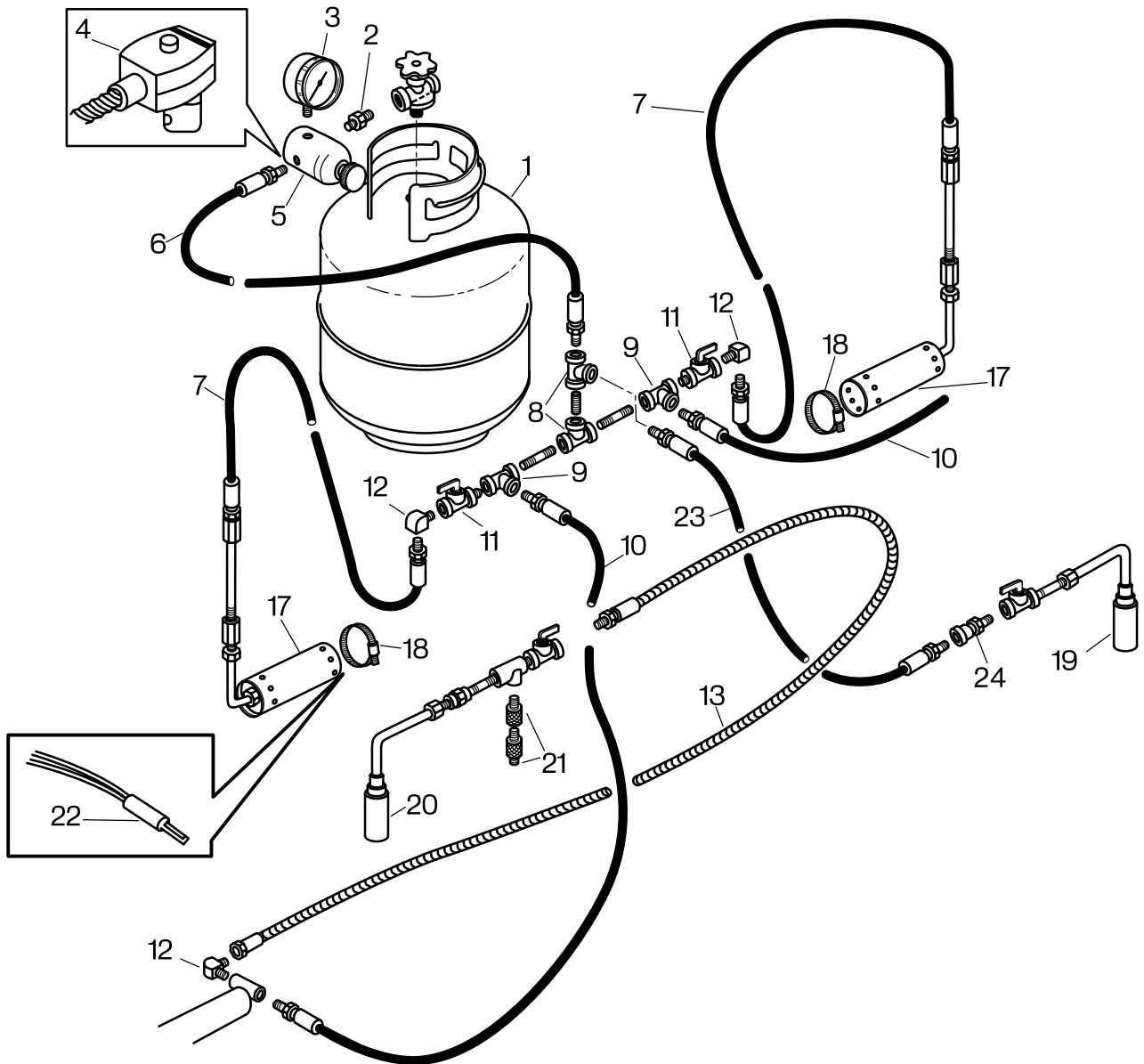


Figure 7-15

Propane Heater And Automatic Ignitors Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	230010	1	L.P.G. Tank, 20 lbs	
2	230030	1	Adapter, P.O.L.	
3	230110	1	Gauge, L.P.G. Pressure	
4	230300	1	Solenoid Valve, 12 Volt L.P.G.	
5	982515	1	Regulator w/Gauge, L.P.G.	
6	230032	1	Hose, L.P.G. Regulator to Tee	
7	230034	2	Hose, Ignitor Burner	
9	230081	2	Tee, .250 Street	
10	230038	2	Hose, Screed Extension Burner	
11	1008544	5	Valve, Selector (Cutoff)	
12	230069	3	Adapter, Hose to Pipe (90 deg)	
13	851225	2	Hose, Screed Extension Burner	
17	982504	2	Burner, Screed Extension	
18	230240	2	Hose Clamp, 2.125 (Size 28)	
19	1008652SRV	A/R	Burner Nozzle, Ignitor	
20	1008654SRV	2	Burner Nozzle, Screed Extension	
21	230084	2	Quick Disconnect Coupling	
22	230024	2	Ignitor, Ceramic, Hot Surface	
23	230034	1	Hose, Ignitor Burner	
24	1009358	1	Adaptor .563-18 Unf-2B LH X 4 Jic Male	

PAVER LEVELING CONTROL (TOPCON) SYSTEM 4

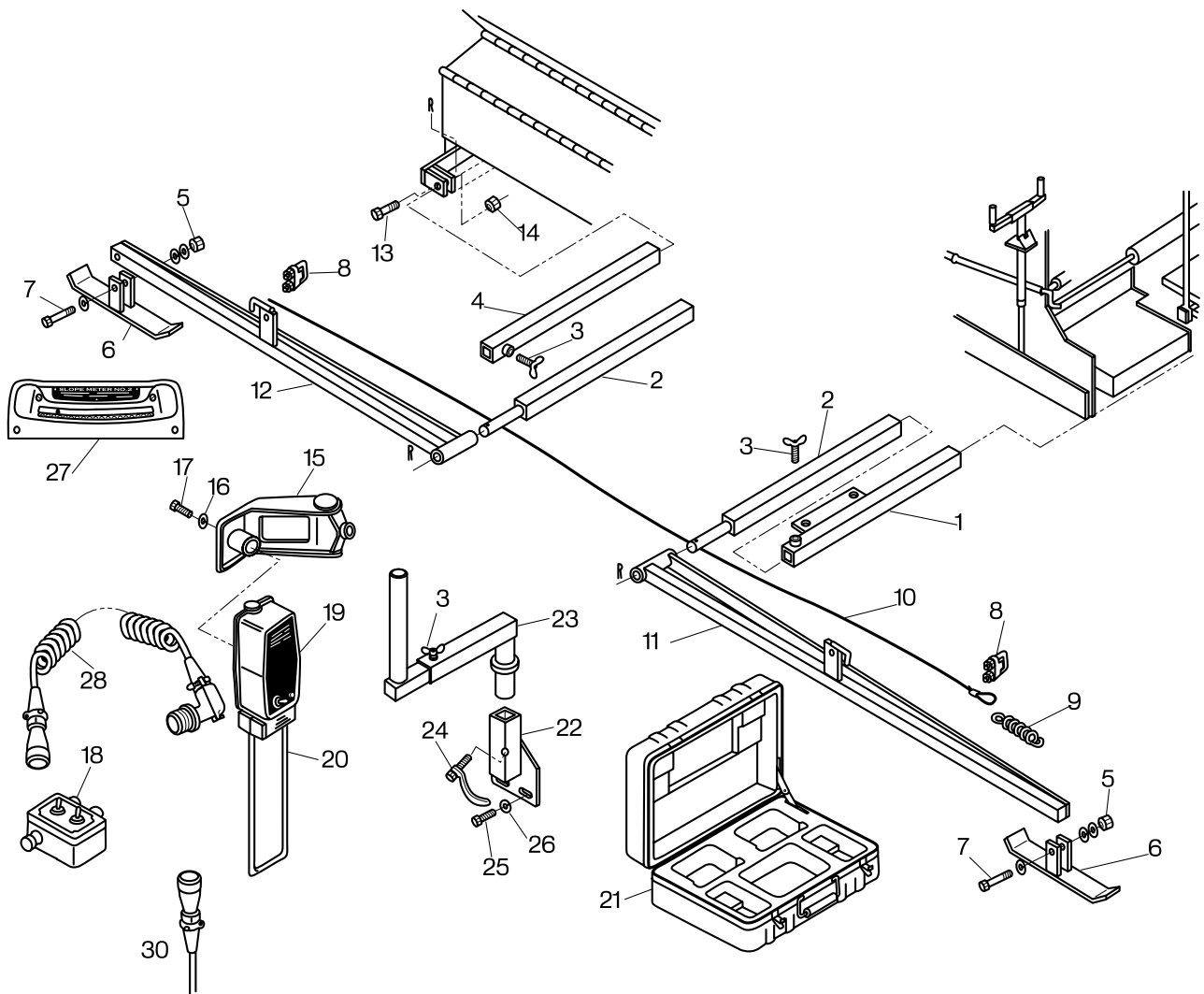


Figure 7-16

Paver Leveling Control (TOPCON) System 4 Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851241SRV	2	Housing, Rear Slide Bar	
2	851242SRV	2	Bar, Adjustable Slide	
3	920070	2	Thumb Screw, .375-16 x 1.00	
4	851243SRV	2	Housing, Front Slide Bar	
5	143-5	2	Nut, Lock, .500-13	
6	851249SRV	2	Skid	
7	102-411-1A	2	CSHH, .500-13 x 2.50	
8	981981	2	Alum. Cable Sleeve .0625	
9	851245	1	Spring, Tension	
10	851246	1	Cable 1.0625	
11	851247SRV	1	Arm, Skid Support (Rear)	
12	851248SRV	1	Arm, Skid Support (Front)	
13	102-611-1A	1	CSHH, .625-11 x 2.50	
14	116-7	1	Nut, Lock, .625-11	
15	851578	1	Bracket, Sonic Tracker	
16	119-7	1	Washer, Flat, SAE, .625	
17	102-617-1A	1	CSHH, .625-11 x 4.00 GR5	
18	985866	1	AM Module and Cable Assy, w/Base Plate	
-	985866-01	1	AM Module Only	Not Shown
-	985866-02	1	Cable, AM Module Only	Not Shown
-	984596	1	Assy, Cord Remote (TOPCON)	Not Shown
19	851579	1	Sonic Tracker	
20	851581	1	Wire Bail, Temperature	
21	851265	1	Case For Sonic Tracker	
22	851575SRV	2	Pivot Mount, TOPCON/Spectra Physics	
23	9090-1125SRV	1	Bracket, Z Arm, TOPCON	
24	300060	1	Handle, Bolt, .625-11	
25	102-606-1A	1	CSHH, .625-11 x .250 GR5	
26	119-7	1	Washer, Flat, SAE, .625	
27	851421	A/R	Slope Meter	
28	851574	A/R	Coiled Cord, TOPCON Tracker/Slope	
-	851584SRV	1	Assy, 20 Ft. Kit	Not Shown
-	851585SRV	1	Assy, 30 Ft. to 40 Ft. Kit	Not Shown
30	984596	1	Ass'y, Cable Remote	Plugs into item 18

PAVER LEVELING CONTROL (TOPCON) SYSTEM 5

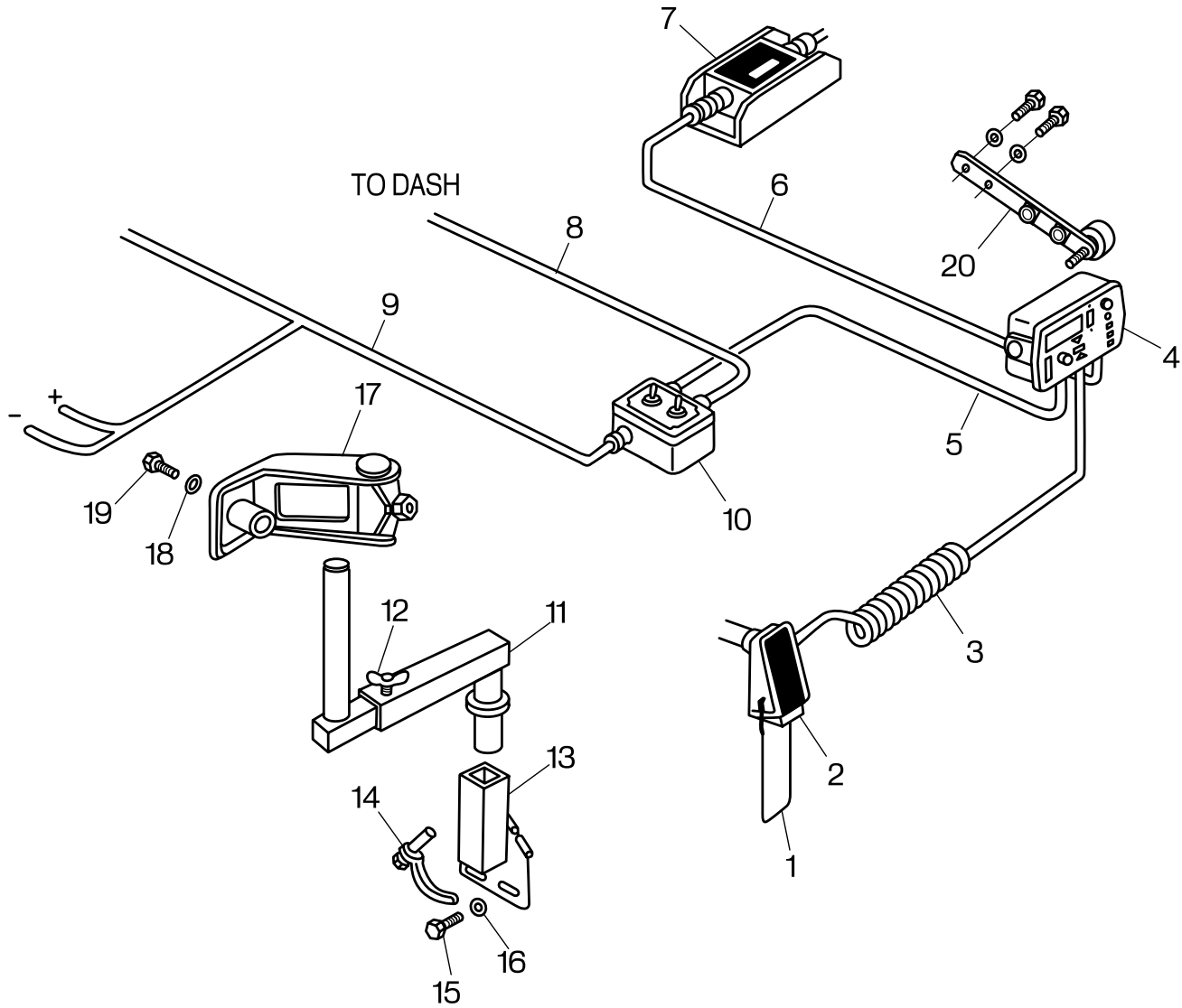


Figure 7-17

Paver Leveling Control (TOPCON) System 5 Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983414-10	2	Assy Temp. Bail w/Sleeves	
2	983414-01	2	TSD Sonic Tracker II	
3	983414-08	2	Coil Cord, 15ft CA to Tracker	
4	983414-02	2	TSD 3 Conn SS Paver Box	
5	983416-01	2	Cable J-Box to Control Box	
6	983414-14	2	Slope Cable 5 Foot	
7	983414-13	2	Slope Sensor	
8	984596	2	Assy, Cord Remote (TOPCON)	
9	985866-02	2	Cable, AM Module Only	
10	985866-01	2	AM Module Only	
11	9090-1125SRV	2	Bracket, Z Arm, TOPCON	
12	920070	2	Thumb Screw, .375-16 x 1.00	
13	851575SRV	2	Pivot Mount, TOPCON/Spectra Physics	
14	300060	2	Handle, Bolt, .625-11	
15	102-606-1A	4	CSHH, .625-11 x .250 GR5	
16	119-7	4	Washer, Flat, SAE, .625	
17	851578	2	Bracket, Sonic Tracker	
18	119-7	2	Washer, Flat, SAE, .625	
19	102-617-1A	2	CSHH, .625-11 x 4.00 GR8	
20	983414-09	2	Assy CB Bracket	
–	988288SRV	1	Dual Grade & Slope	System 5 Kit, Not Shown
–	988409SRV	1	Dual Grade Control	System 5 Kit, Not Shown



TRUCK HITCH ASSEMBLY

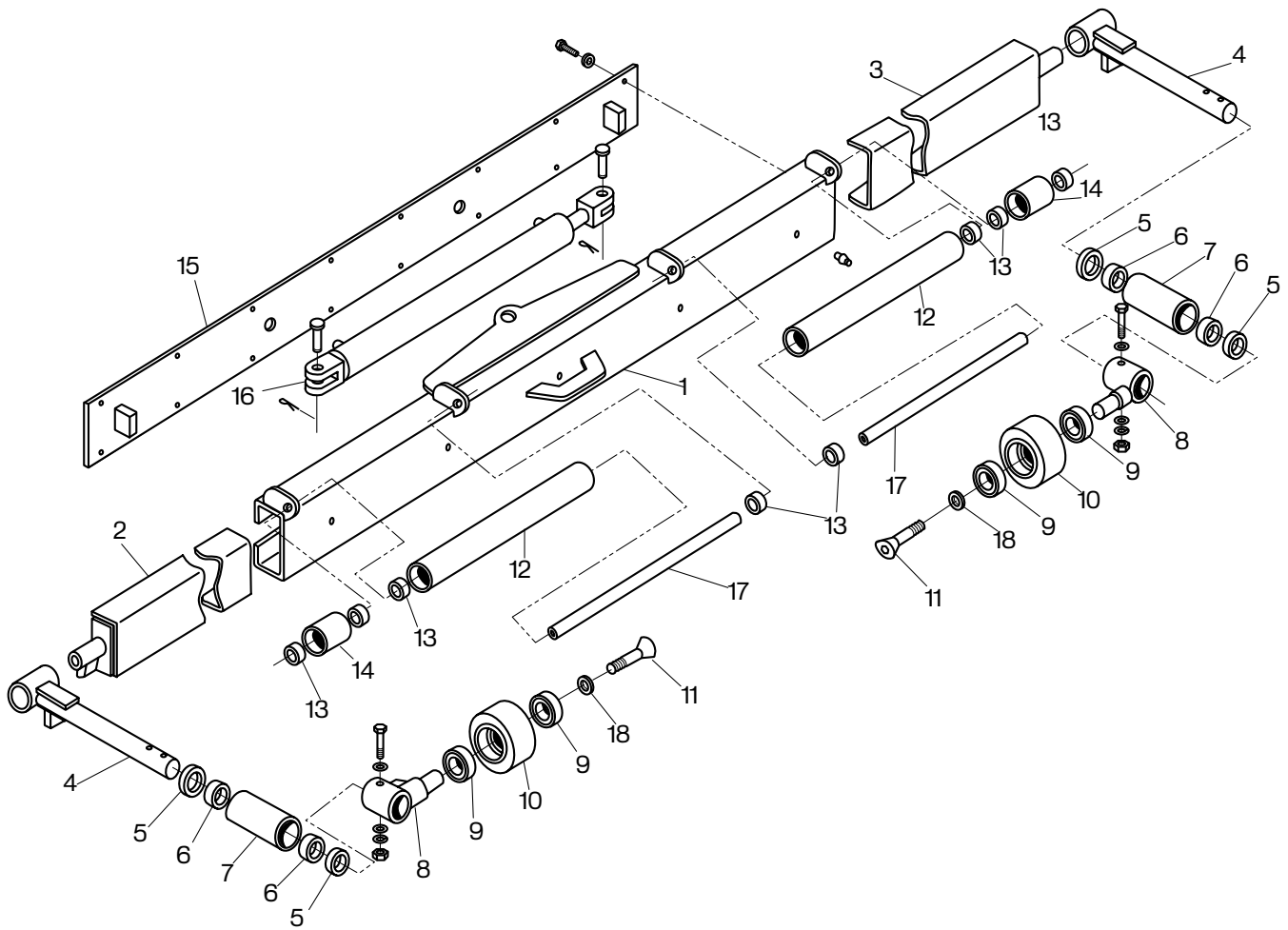


Figure 7-18

Truck Hitch Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
–	1000253SRV	1	Truck Hitch Assy	Not Shown
1	930015	1	Support, Pivot Bar	
2	930020SRV	1	Arm Extension, RH	
3	930025SRV	1	Arm Extension, LH	
4	930030SRV	2	Arm, Assy, Truck Hitch Wheel Pivot	
5	620400	4	Collar, Lock	
6	810070	4	Bushing, 2.00 ID x 2.50 OD x 2.50	
7	930040	2	Roller	
8	930045SRV	2	Assy, Axle, Guide Wheel	
9	930050	2	Bearing, Truck Hitch Roller	
10	930055	2	Guide Wheel, Truck Hitch	
11	851111	2	CSHH, .500-13 x 2.00	
12	810102	2	Push Roller, Truck Wheel	
13	810110	8	Bearing, Push Roller (1.25)	
14	930060	2	Roller Extension, Bumper	
15	930065	1	Cover, Back Panel	
16	930070	1	Cylinder, Arm Extension	
–	930070-01	1	Seal Kit	Not Shown
–	852250	1	Valve Truck Hitch	Not Shown
17	930075	2	Shaft, Bumper Roller	
18	851112	2	Washer, Counter Sunk, .500	
–	984399	1	Hose Kit 8515 Truck Hitch	Not Shown
–	852250	1	Selector Valve, Conveyor	Not Shown

KUBOTA SHEET METAL COVER

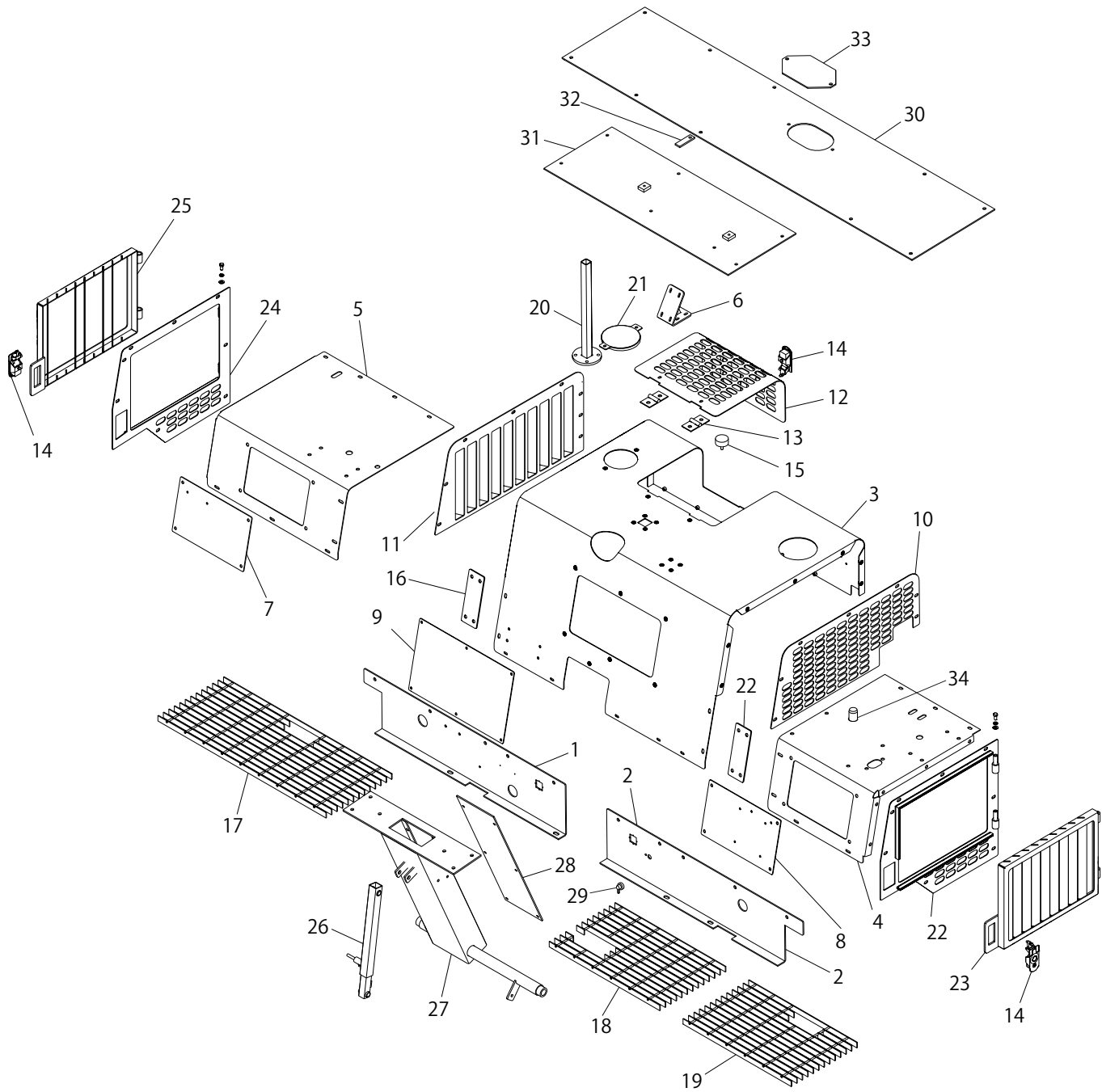


Figure 7-19

Kubota Sheet Metal Cover Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987621	1	Toeboard, Driver Side	
2	987616	1	Toeboard, Pass. Side	
3	1010449SRV	1	Weldment Cover, Center, Tier 4I	
4	1009347	1	Cover, Right Side SM	
5	987623	1	Cover, Drivers Side	
6	1011395	1	Weldment, Air Breather Mount	
7	987620	1	Cover, Access Hole LH	
8	987633	1	Cover, Access Hole RH	
9	987629	1	Cover, Access Hole, Top	
10	1009351	1	Cover, Vent, Top, RH, Tier 4I	
11	1011954	1	Cover, Upper, Vent, LH, With Louvers	
12	1009349	1	Door, Engine Access	
13	987639	2	Hinge, (2) Thru Holes	
14	980460	3	Southco Fastener	
–	35560	2	Key, Vandalism Lock	Not Shown
15	410070	1	Bumper, Water Tank/Conveyor	
16	988226	2	Bracket For SM	
17	987862	1	Grating, Left Side	
18	987863	1	Grating, Middle	
19	987864	1	Grating, Right Side	
20	989469	1	Assy, Beacon Light Post	
–	211748-02	1	Light, Strobe, Amber	Not Shown
21	1010105	1	Radiator Cover	
–	1011030	1	Assembly, Side Access Door, RH	Includes 22, 23, 14
22	1011027	1	Weldment, Access Door Mount, RH	
23	1011023	1	Weldment, Access Door, RH	
–	1011029	1	Assembly, Side Access Door, LH	Includes 24, 25, 14
24	1011028	1	Weldment, Access Door Mount, LH	
25	1011019	1	Weldment, Access Door, LH	
26	854592	1	Support, Elite III Dash	
27	987850	1	Support, Dash Assy	
28	855373	1	Cover, Dash Channel	
29	SW29	1	Switch, Battery Disconnect	
30	853645SRV	1	Plate, Conveyor Flap	
31	853669	1	Plate, 8500 Engine Bottom	
32	853654	1	Bar, .250 X 1.00 X 3.00, Hole	
33	980751	1	Plate, Cover	
34	985518	1	Term. Battery, POS. Remote Mount	

KUBOTA SHEET METAL COVER (CONT.)

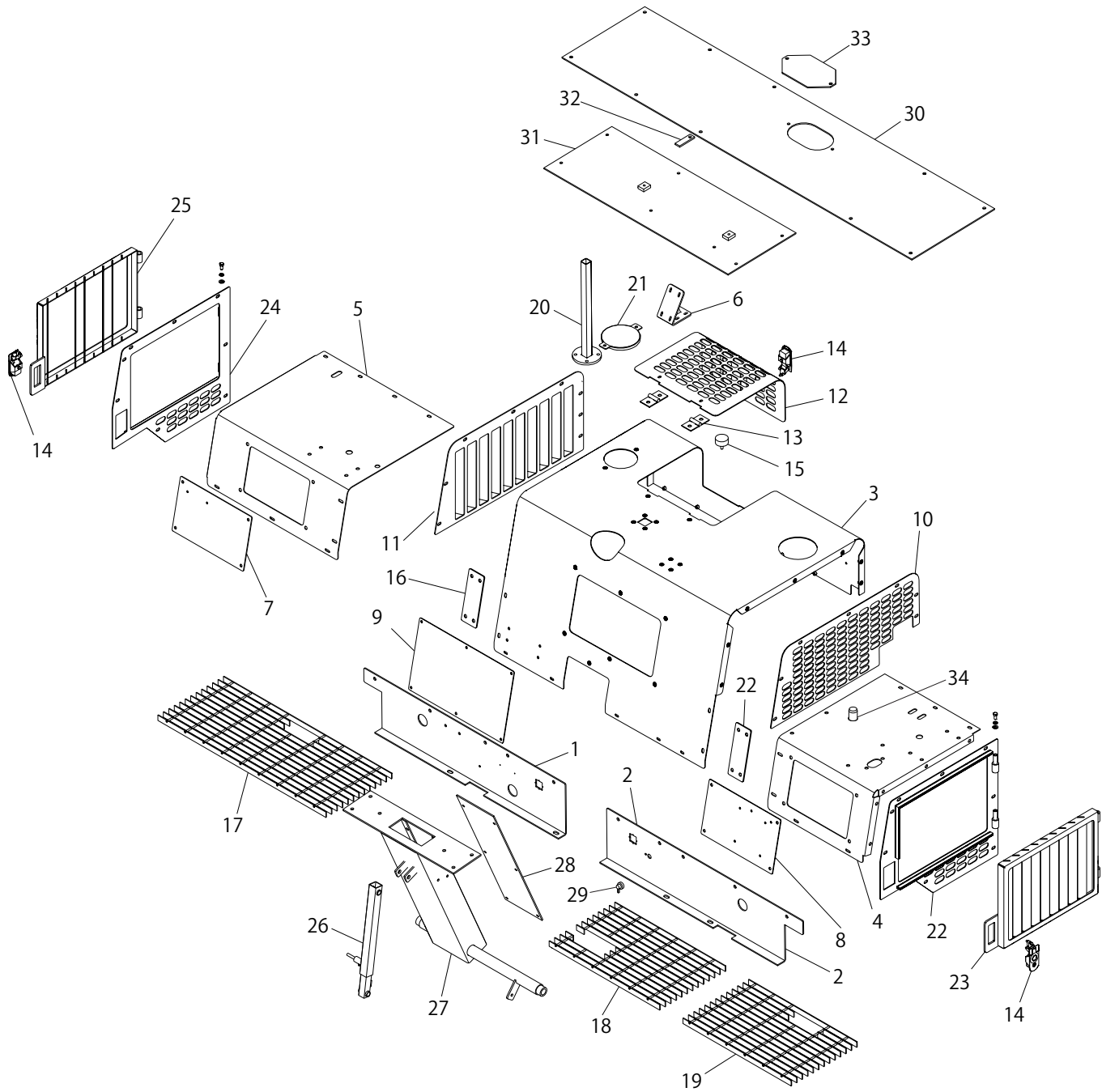


Figure 7-19

Kubota Sheet Metal Cover Parts List (Cont.)

Item No.	Part Number	Qty.	Description	Remarks
–	5804	1	Cable, Battery	Switch to Bat. Neg or Gnd Post
–	Ref.	1	Battery	Buy Local
–	986804	1	Cable, Battery	Battery Post to Jump Start Post

CUMMINS SHEET METAL COVER

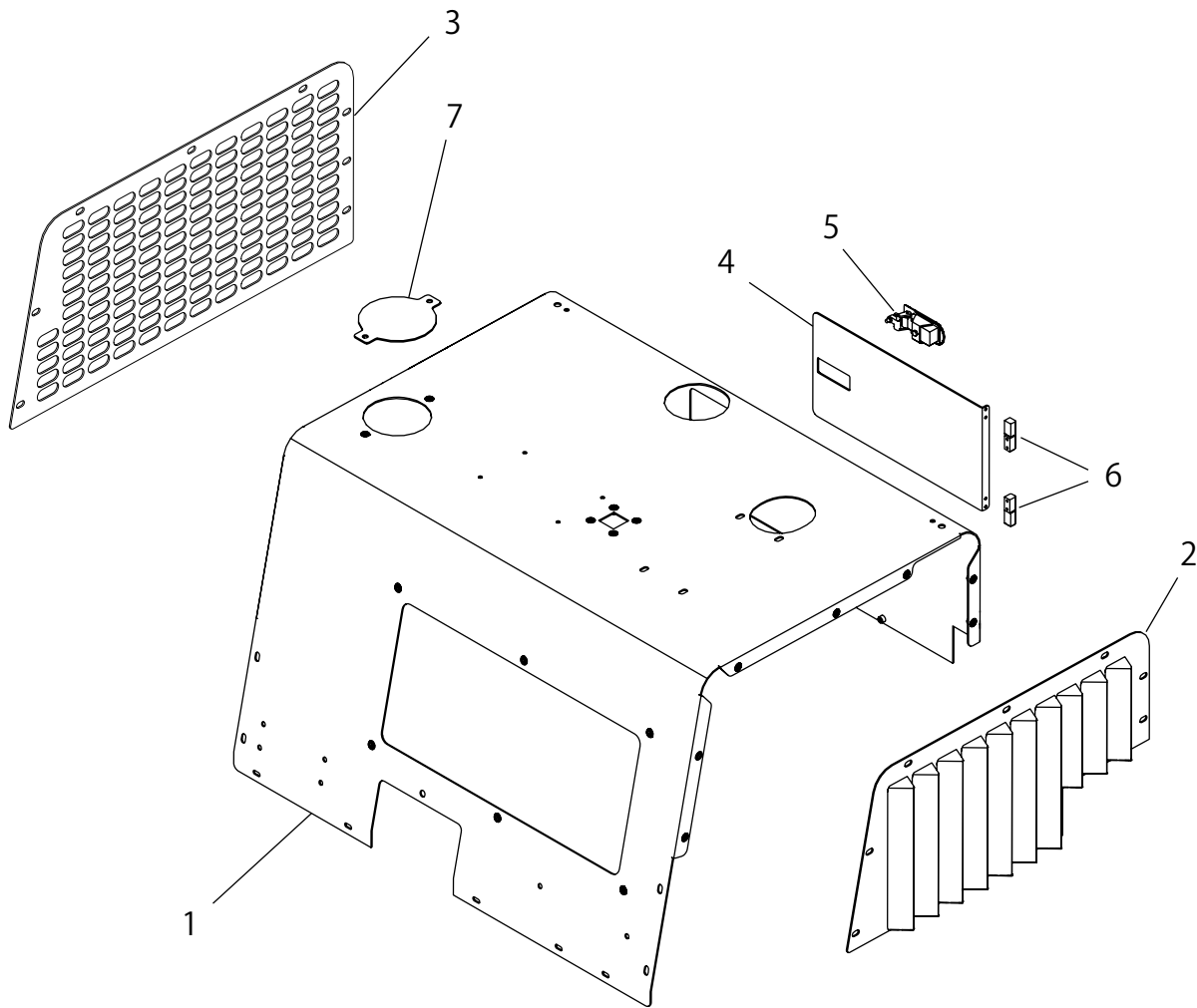


Figure 7-20

Kubota Sheet Metal Cover Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1012293	1	Weldment, Center Cover, Tier 4 Cummins	
2	1012296	1	Panel, Right Side With Deflectors	
3	1010644	1	Cover, Upper, Vent, LH	
4	1012295	1	Plate Door Cummins	
5	980460	1	Lever Latch	
—	35560	1	Key, Vandalism Locks	
6	986693	2	Hinge,Door	
7	987635	1	Radiator Cover	

- For other sheet metal parts refer to Figure 7-19.

STRIKE OFFS AND EXTENSIONS

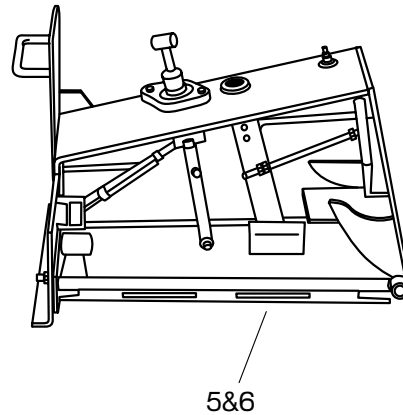
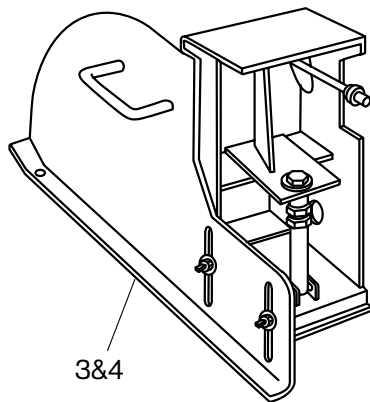
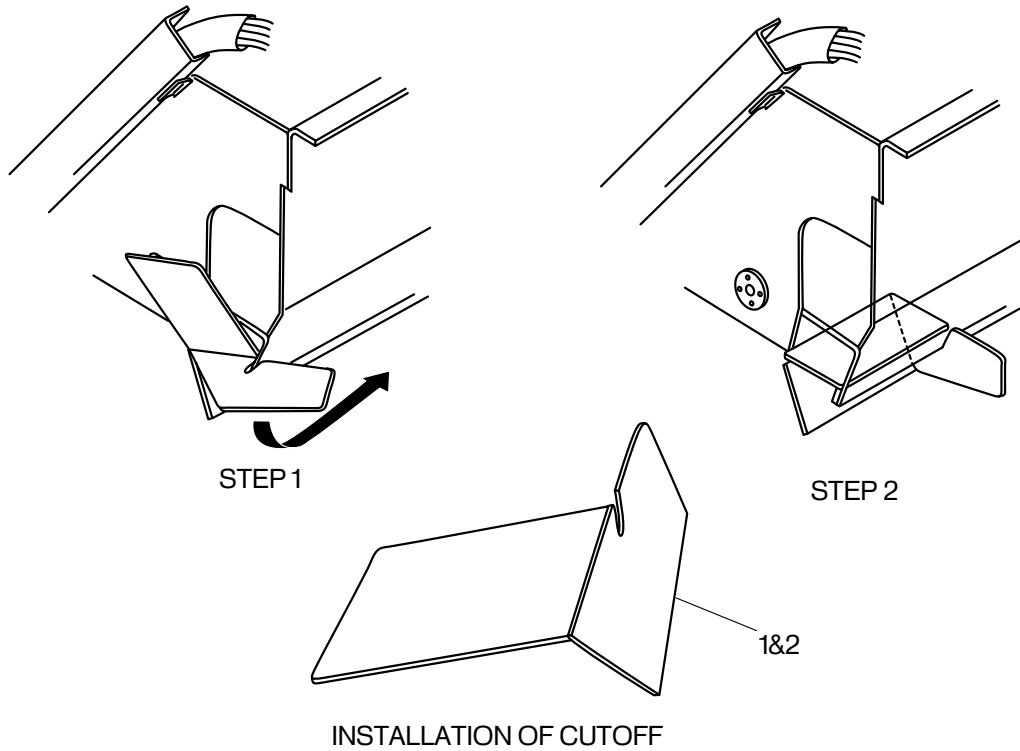


Figure 7-21

Strike Offs And Extensions Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	860091LSRV	A/R	Strike Off, Left Side, 12"	
2	860091RSRV	A/R	Strike Off, Right Side, 12"	
1	860095LSRV	A/R	Strike Off, Left Side, 24"	
2	860095RSRV	A/R	Strike Off, Right Side, 24"	
3	851634LSRV	A/R	Extension, 6' Left Side	
4	851634RSRV	A/R	Extension, 6' Right Side	
5	851635LSRV	A/R	Roll Up Curb Attachment, Left Side, 12"	
6	851635RSRV	A/R	Roll Up Curb Attachment, Right Side, 12"	
5	851636LSRV	A/R	Roll Up Curb Attachment, Left Side, 24"	Standard
6	851636RSRV	A/R	Roll Up Curb Attachment, Right Side, 24"	Standard

CONTROL VALVE

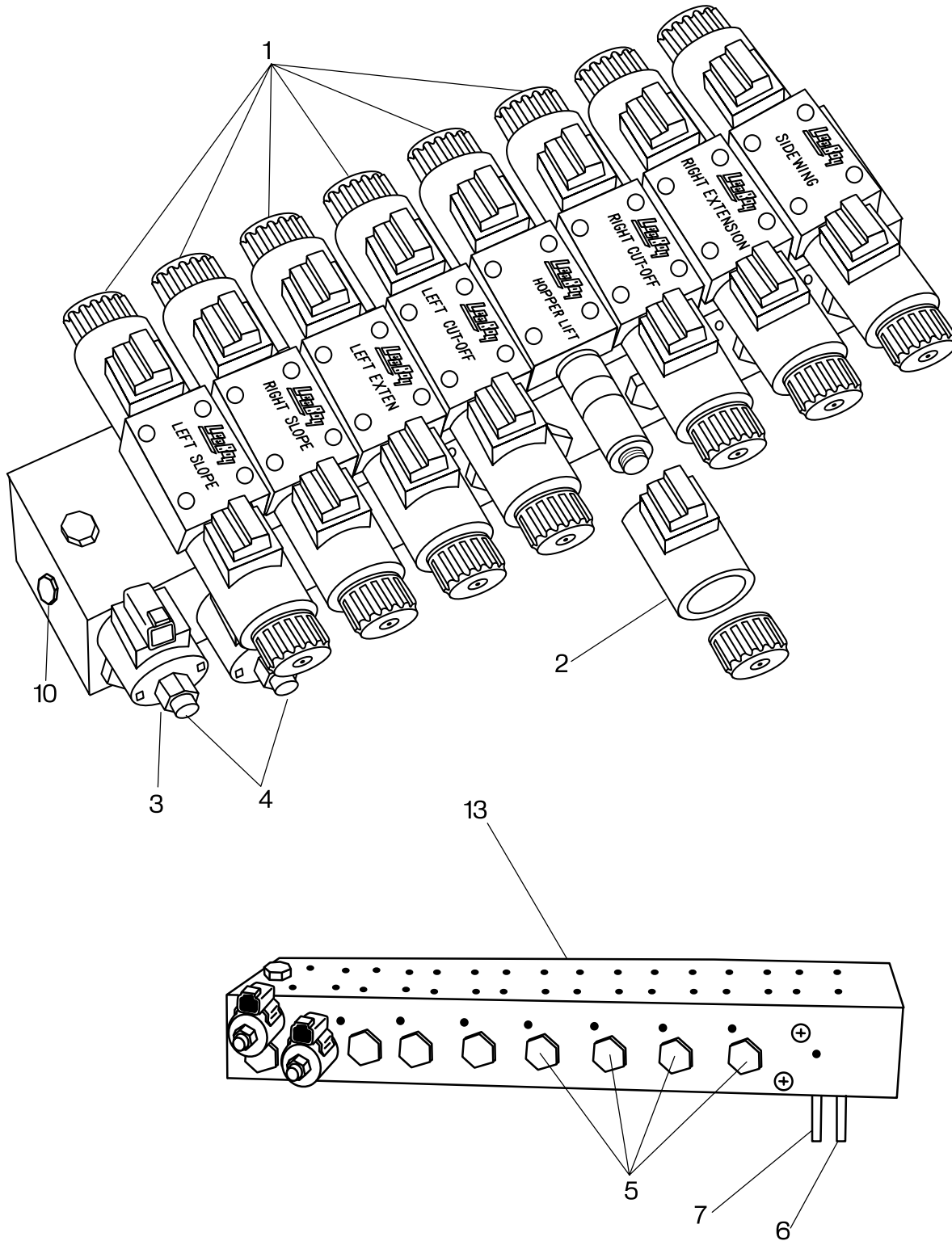


Figure 7-22

Control Valve Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983643-01	A/R	Valve, Directional Solenoid	
2	983643-02a	A/R	Coil, 12VDC w/Deutsch Connector	
3	983643-03	A/R	Nut, Coil	
4	983643-04	A/R	Valve, Cartridge SVO8	With Coil, Screed
5	983643-05	A/R	Dual Pilot Operated Check Valve	
6	983643-06	A/R	Valve, Piloted Logic Element	
7	983643-07	A/R	Valve, Relief RVO8	
9	983643-09	A/R	Valve, Check CVO8	
10	983643-10	A/R	Flow Divider FD10	
13	983643-13	A/R	Manifold, 9-Station Upper	
–	984594-01	A/R	Filter, Element Hydraulic	Not Shown
–	900140	A/R	Valve, Solenoid 2 Speed	Not Shown
–	983643-08	A/R	Valve, Check Cv04	Not Shown

LOWER MANIFOLD

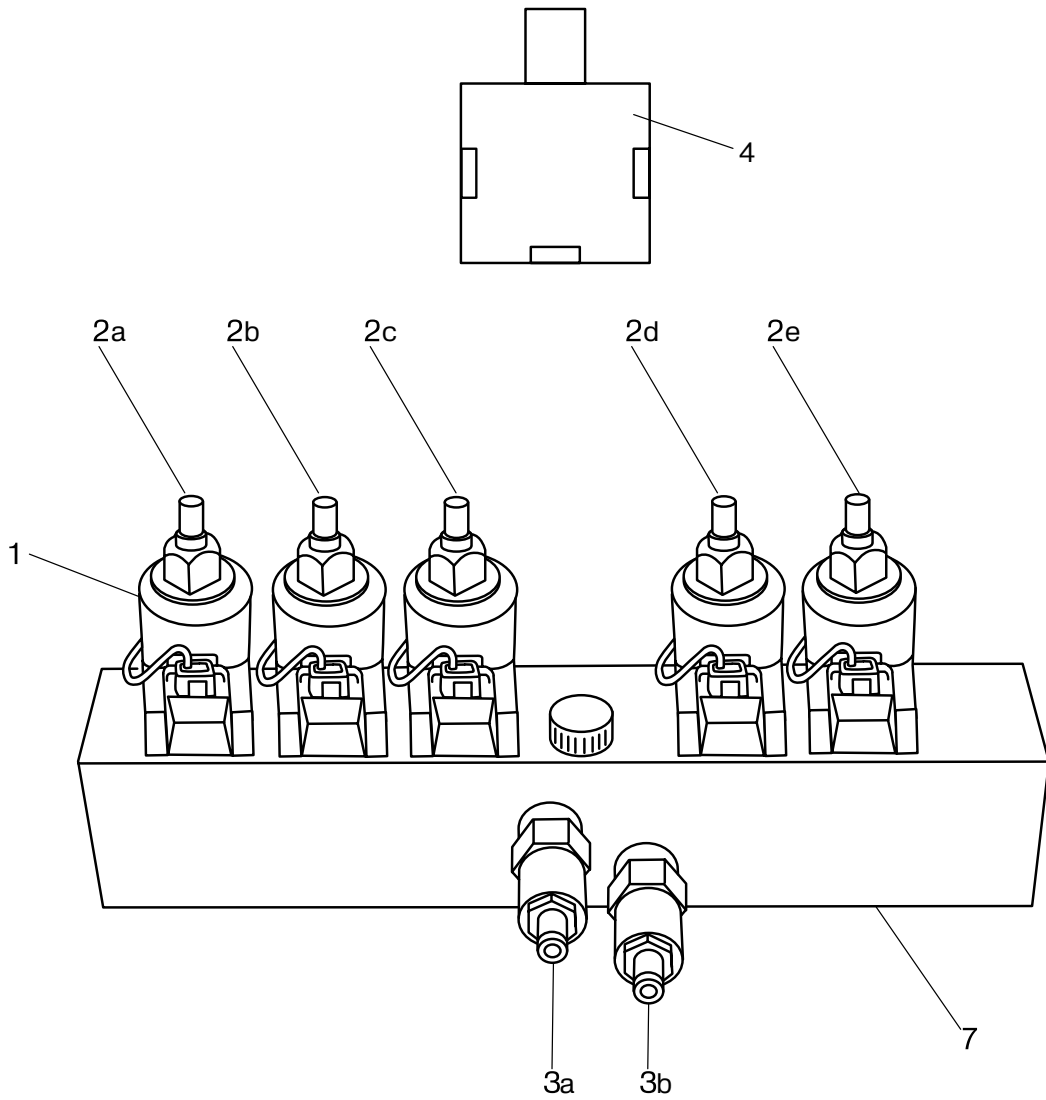


Figure 7-23

Lower Manifold Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983644-01	A/R	Coil, 12VDC SV12, Generator	
2a	983644-02	A/R	Valve, Cartridge SV12	Right Auger
2b	983644-02	A/R	Valve, Cartridge SV12	Left Auger
2c	983644-02	A/R	Valve, Cartridge SV12	Vibrator
2d	983644-02	A/R	Valve, Cartridge SV12	Right Conveyor
2e	983644-02	A/R	Valve, Cartridge SV12	Left Conveyor
3a	983644-03	A/R	Valve, Relief RV10	Auger Relief
3b	983644-03	A/R	Valve, Relief RV10	Conveyor Relief
4	900140	1	Valve, Solenoid, 2 Speed	Located at upper manifold end
6	983644-06	A/R	Harness, Wiring Lower (N/S)	
7	983644-07	A/R	Manifold Lower	

INSTRUMENT PANEL DASH

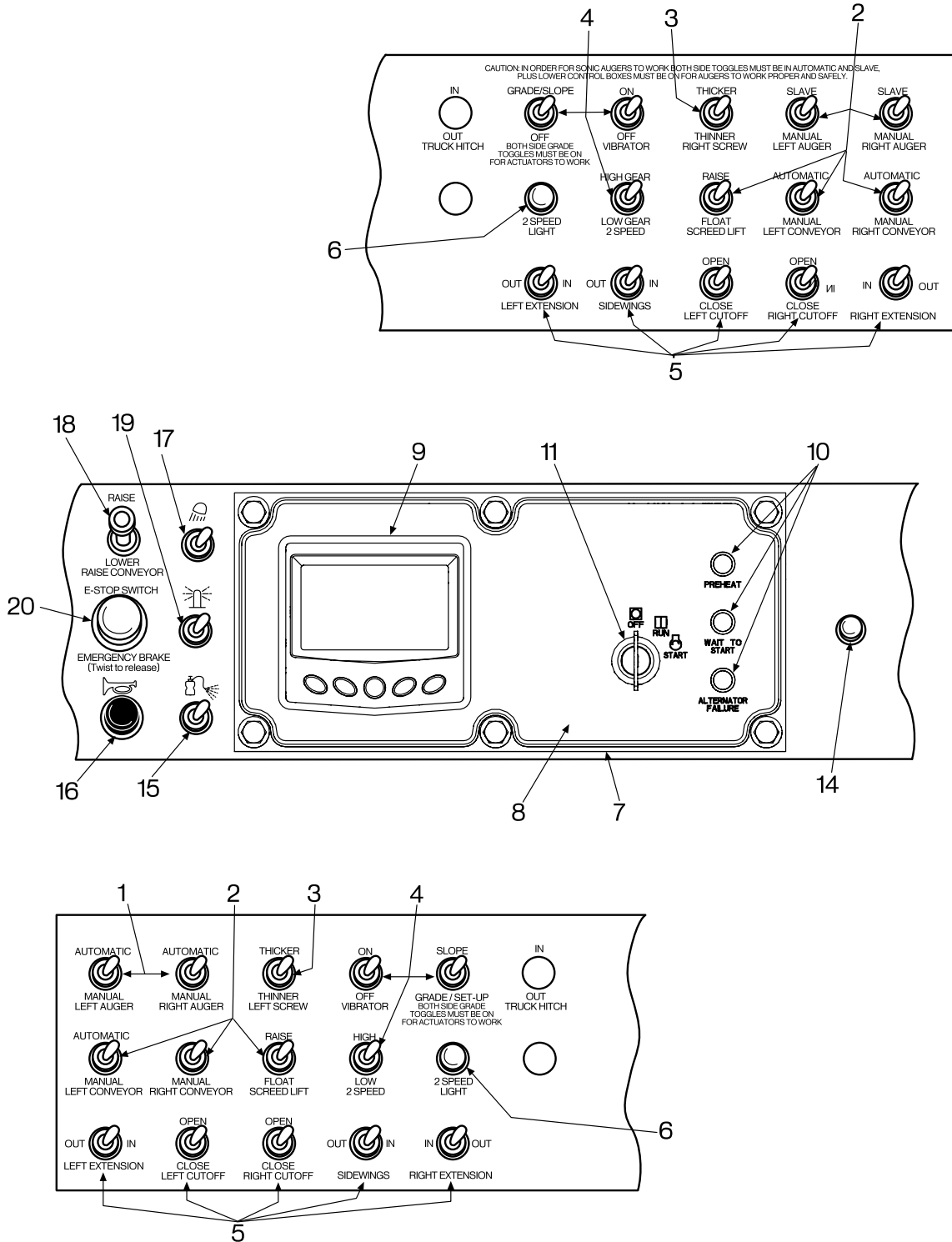


Figure 7-24

Instrument Panel Dash Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851390	2	Switch, Toggle	LH Auto Augers
2	900030	8	Switch, Toggle	
3	900080	2	Switch, Toggle	
4	851391	6	Switch, Toggle, SPST, 2-POS	
5	851392	10	Switch, Toggle	
6	900120	2	Light, Red, Indicator	
7	1009253-05	1	Assembly, Tier 4i Gauge Panel	
-	1009253-03	1	Plate, Display Panel	
8	1009253-06	1	Decal, Display Panel, 8515 Tier 4i	
9	1009253-04	1	Gauge, Murphy, Tier 4i	
10	1009253-07	3	Light,Indicator,Red	
11	39146-14	1	Switch,Ignition,W/Heat St Kubota	
-	982008-04	2	Ignition Key, Replacement	Not Shown
14	900120	1	Light, Red, Indicator	
15	500040	1	Switch, Toggle	
16	982249	1	Switch, Push Button	
17	500040	1	Switch, Toggle	
18	851393	1	Switch, Toggle	
19	500040	1	Switch, Toggle	
20	988924-03SRV	1	Emergency Brake Switch	
-	1007678	A/R	Kit, Decals, 8515 Safety & Ops	
-	1010027	A/R	Decal, Control Panel, Tier 4	
-	1009897	A/R	Decal, 8515C	
-	1010091	A/R	Decal, Certified Emission Engine Installation	
-	1010089	A/R	Decal, CJ-4 Oil Only	
-	1010090	A/R	Decal, Ultra Low Sulfur Fuel Only	

POWER CROWN (OPTION)

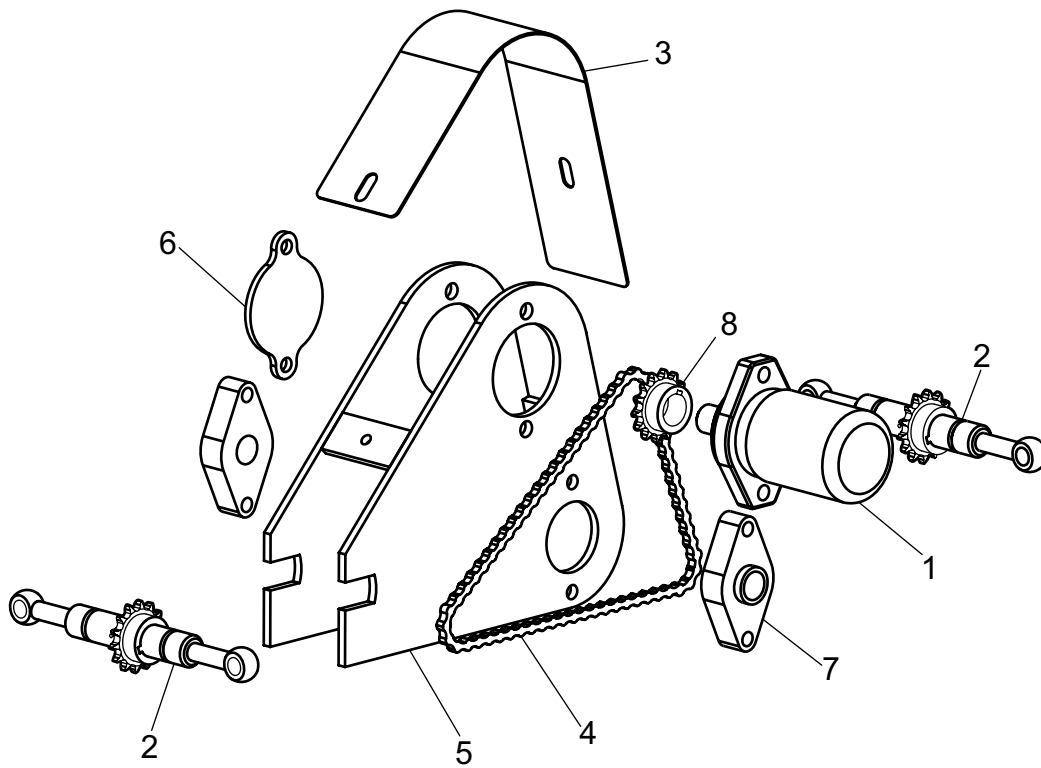


Figure 7-25

Power Crown (Option) Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	986640	1	Motor, Power Crown	
2	986637SRV	2	Assy, Crown Adjustment	Both Left and Right
2a	986636	1	Rod Ext Right	
2b	986650	1	Rod Ext Left	
3	986643	1	Cover, Power Crown	
4	986639SRV	1	Chain Turnbuckle	
5	986645	1	Power Crown Support	
6	986644	1	Motor Mount Cover	
7	986657	1	Bearing	
8	986641	1	Sprocket	

SCREED NON-SLOPING OVERVIEW

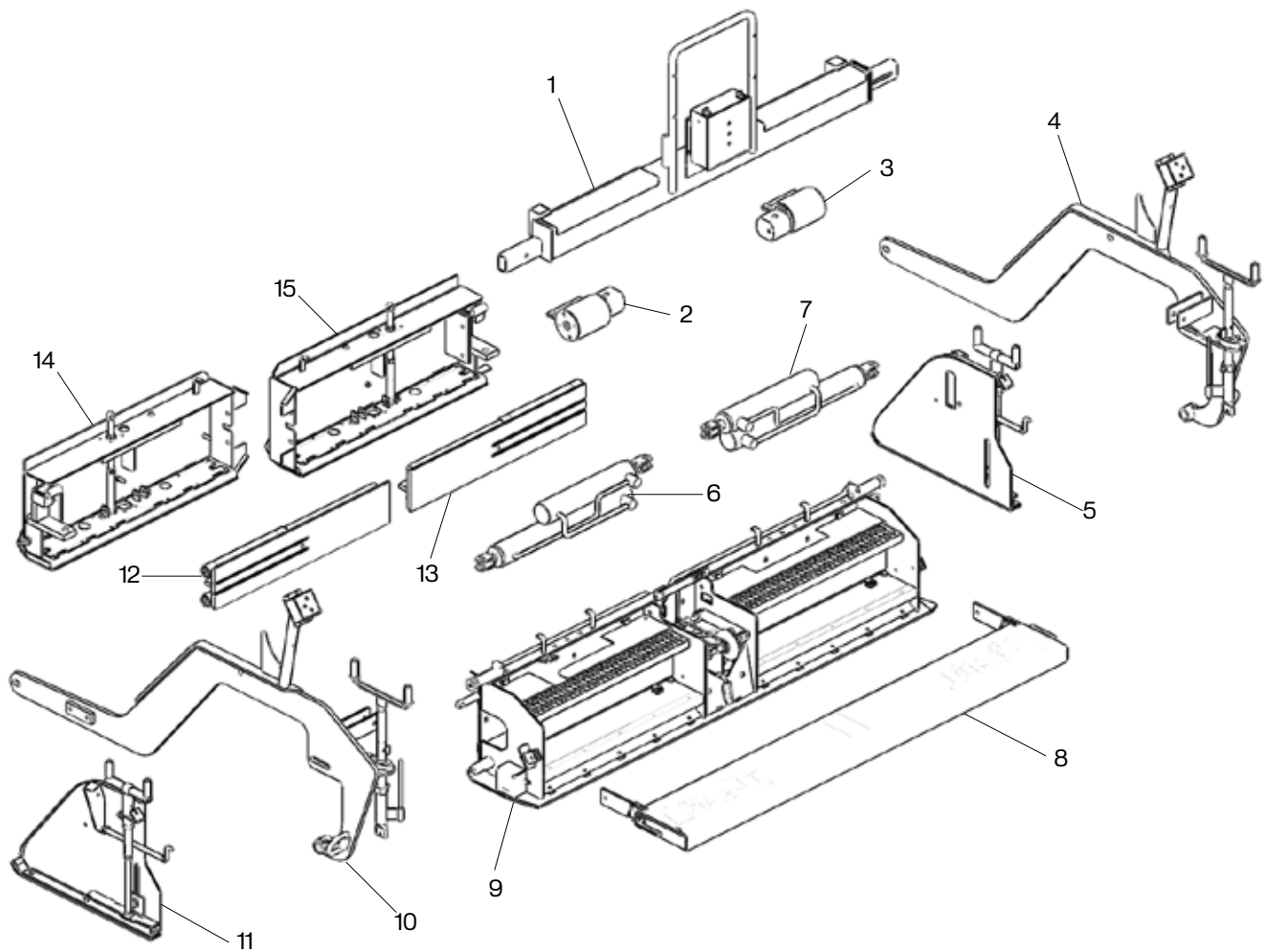


Figure 7-26

Screed Non-sloping Overview Parts List

Item No.	Ref. Figure	Description	Remarks
1	7-44	Screed Citrus Tank and Electric Heat Control Box	
2	7-32	Screed Vibrator Assembly LH	
3	7-33	Screed Vibrator Assembly RH	
4	7-43	Screed Pull Arm and Remote Control Box RH	
5	7-41	Screed Endgate Assembly RH	
6	7-45	Screed Miscellaneous Components	
7	7-45	Screed Miscellaneous Components	
8	7-34	Screed Walk Board Assembly	
9	7-24	Screed Frame Non-Sloping	See 10-32 for Electric
10	7-42	Screed Pull Arm and Remote Control Box LH	
11	7-40	Screed Endgate Assembly LH	
12	7-35	Screed Slide Plate Assembly	
13	7-35	Screed Slide Plate Assembly	
14	7-26	Screed Extension Single Adjuster LH	See 10-38 for Electric
15	7-27	Screed Extension Single Adjuster RH	See 10-39 for Electric

SCREED SLOPING OVERVIEW

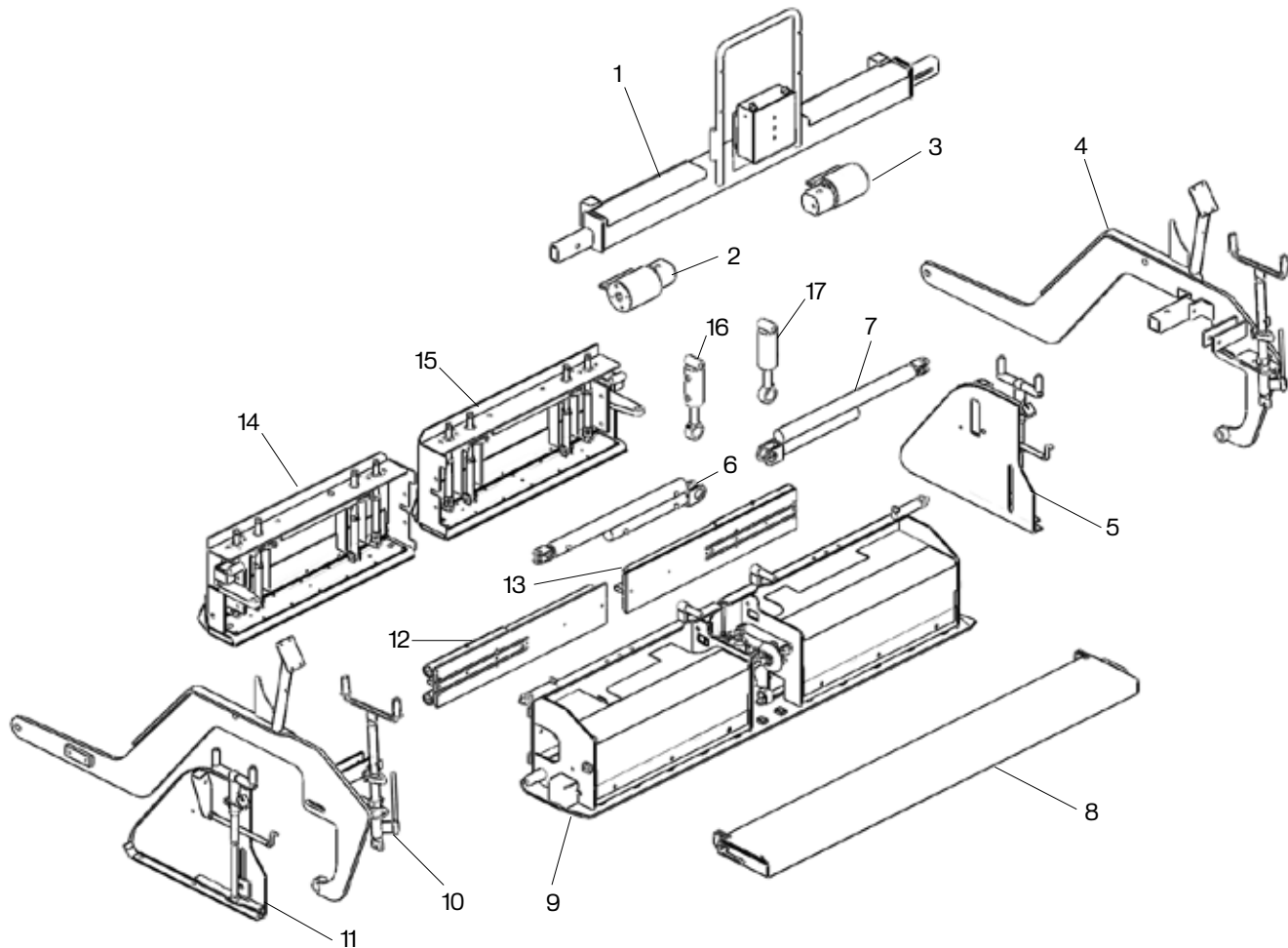


Figure 7-27

Screed Sloping Overview Parts List

Item No.	Ref. Figure	Description	Remarks
1	7-44	Screed Citrus Tank and Electric Heat Control Box	
2	7-32	Screed Vibrator Assembly LH	
3	7-33	Screed Vibrator Assembly RH	
4	7-43	Screed Pull Arm and Remote Control Box RH	
5	7-41	Screed Endgate Assembly RH	
6	7-45	Screed Miscellaneous Components	
7	7-45	Screed Miscellaneous Components	
8	7-34	Screed Walk Board Assembly	
9	7-25	Screed Frame Sloping	See 10-33 for Electric Screed
10	7-42	Screed Pull Arm and Remote Control Box LH	
11	7-40	Screed Endgate Assembly LH	
12	7-35	Screed Slide Plate Assembly	
13	7-35	Screed Slide Plate Assembly	
14	7-28	Screed Extension Double Adjuster LH	See 10-40 for Electric Screed
15	7-30	Screed Extension Double Adjuster RH	See 10-41 for Electric Screed
16	7-45	Screed Miscellaneous Components	
17	7-45	Screed Miscellaneous Components	

SCREED FRAME NON-SLOPING - PROPANE

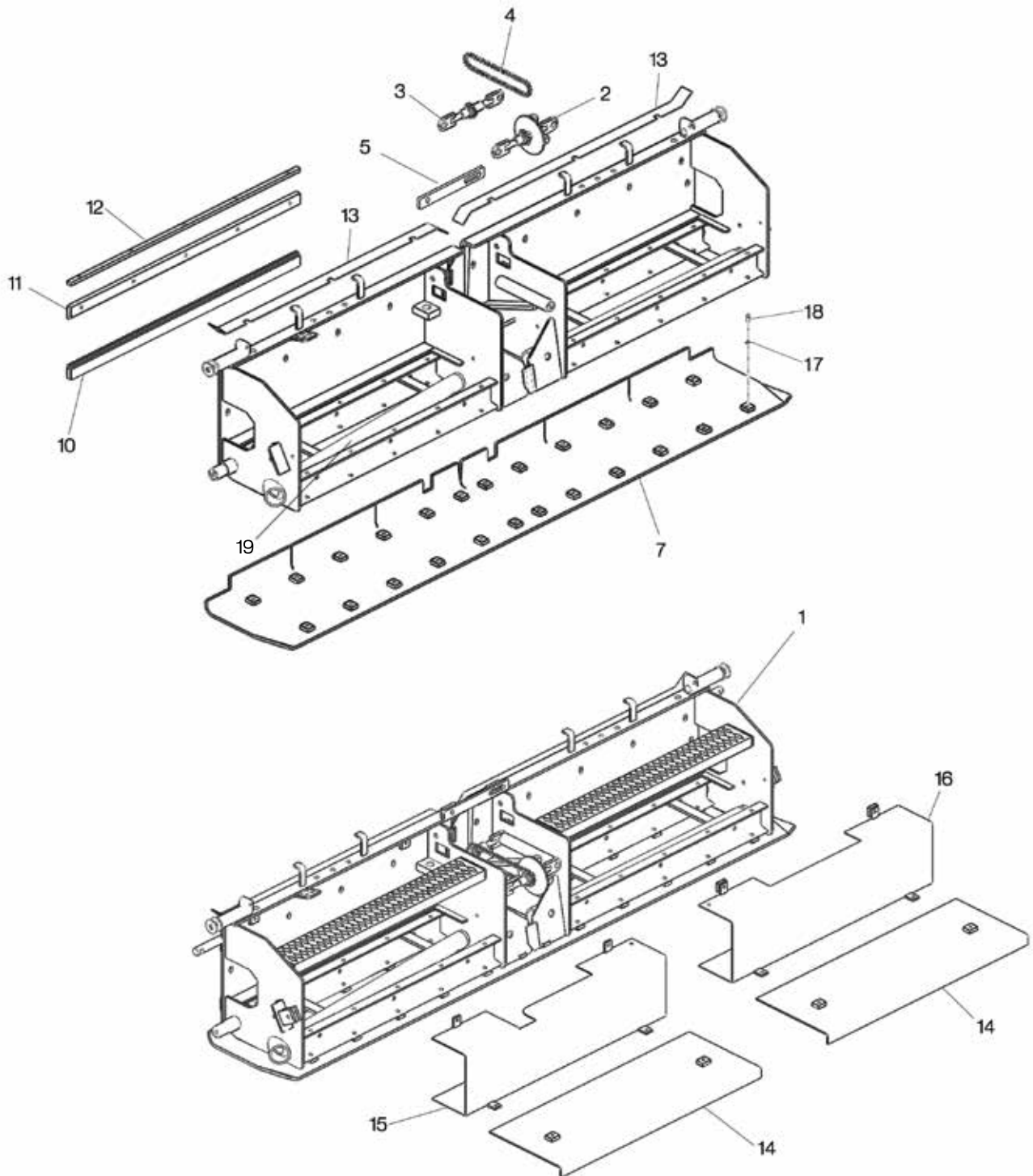


Figure 7-28

Screed Frame Non-Sloping - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1000251	1	Group, Screed Base 8500 Series Prop	Includes item 14, 15, 16
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40 x 52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
7	981724SRV	1	Wear Plate, 8' Bullnose	
10	855783	1	Bottom Rail, 8500 Screed Ext	
11	855784	1	Top Rail, 8500 Screed Ext	
12	988556	1	Bar Jack, Screed Slide	
13	855562	1	Bar, .125 x 2.00 x 44.50, Notches	RH or LH
14	851201SRV	2	Cover, Screed Plate Access	
15	851204SRV	1	Cover, Screed LH Ext Cyl	
16	851203SRV	1	Cover, Screed RH Ext Cyl	
17	118-3	24	Washer, Lock, .375	
18	100-205-1A	24	CSHH, .375-24 x 1.00, GR5	
-	1004918	Opt	Screed, 8515 LP, 4 Adjusters Extensions	

SCREED FRAME SLOPING - PROPANE

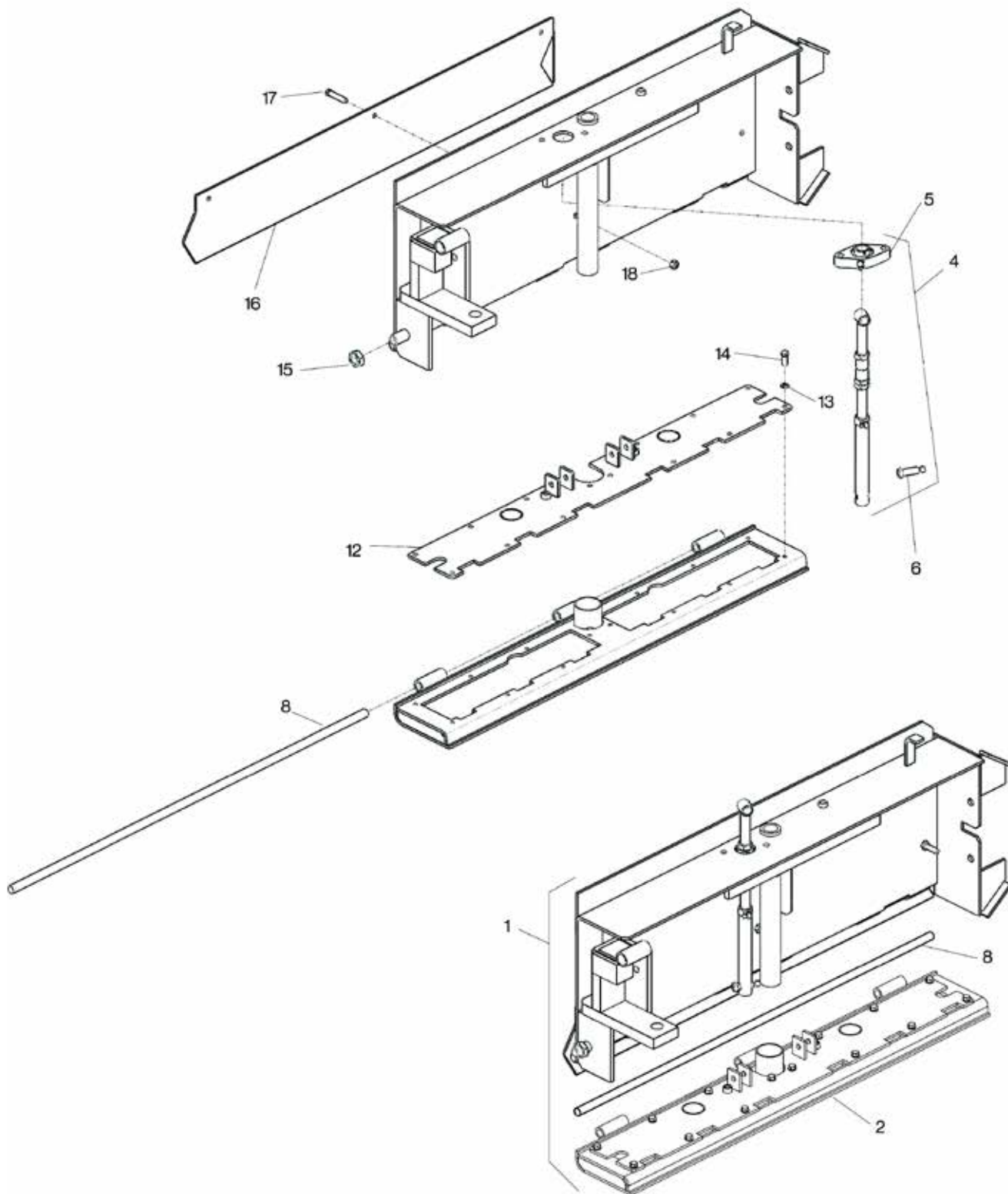


Figure 7-29

Screed Frame Sloping - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982986	1	Screed Base, 8515 Propane Slope	Includes item 18, 19, 20
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40 x 52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
8	981659	2	Bar, Pivot	
9	981711	2	Plate, Pivot Cover	
10	981661	2	Pin, Cyl Mount	
13	981724SRV	1	Wear Plate, 8' Bullnose	
14	981656	1	Plate, Rail Mount	
15	981656	1	Plate, Rail Mount	
16	981658	2	Bar, Bottom Rail	
17	981657	2	Bar, Top Rail	
18	985149	2	Cover, Screed Lid	
19	985147	1	Plate, Screed Cover, RH	
20	985148	1	Plate, Screed Cover, LH	
21	100-205-1A	24	CSHH, .375-24 x 1.00, GR5	
22	118-3	24	Washer, Lock, .375	

EXTENSION SINGLE ADJUST LH ASSEMBLY - PROPANE

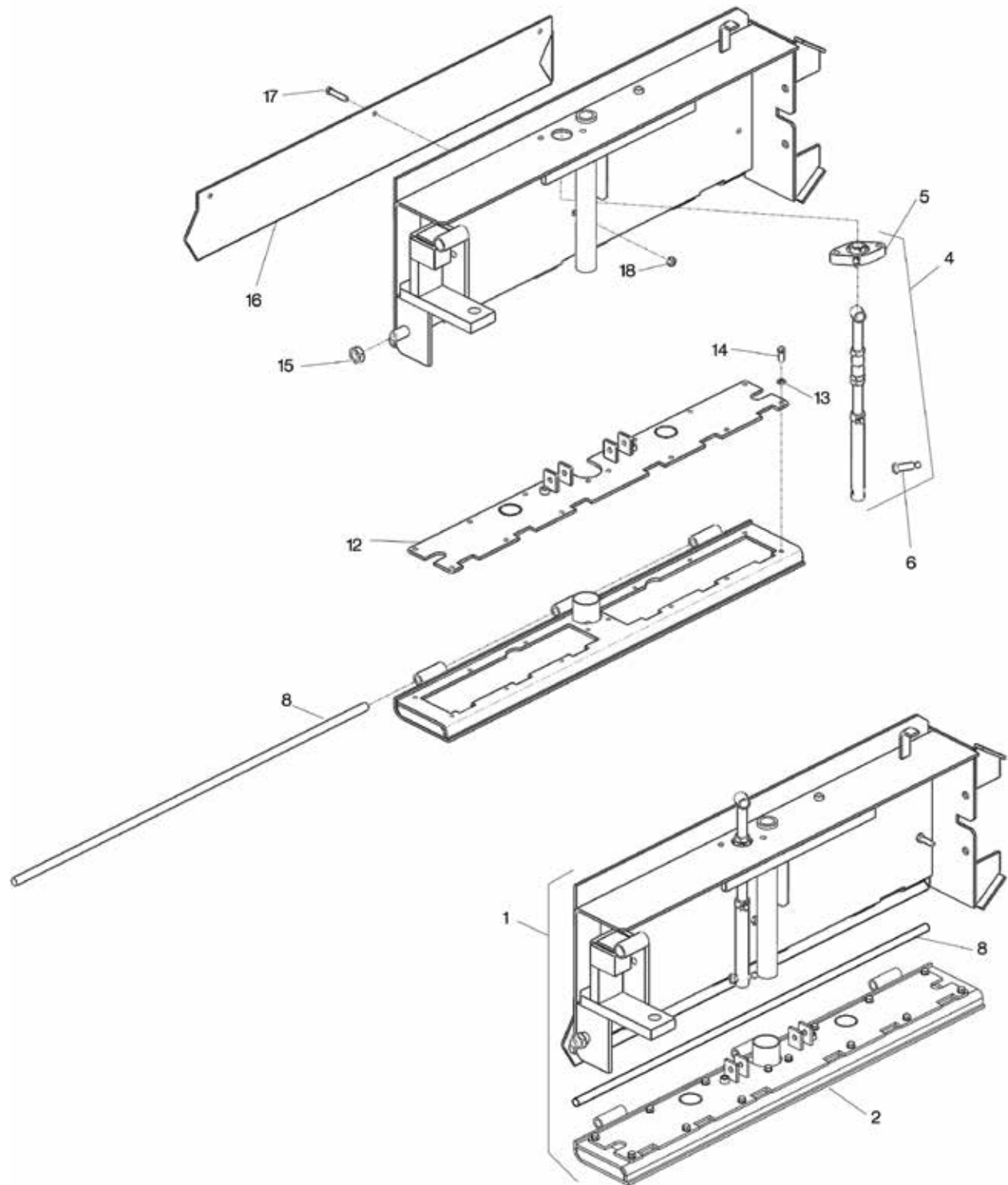


Figure 7-30

Extension Single Adjust LH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	859394SRV	1	Assy, Insert, Propane, 8500, LH	
2	851182SRV	1	Assy, Heat Box, Propane, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688 x 43.50, CRS	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24 x 1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180LSRV	1	Guard, LH Screed Ext Hinge	
17	860048	3	CSHH, .437-14 x 1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

EXTENSION SINGLE ADJUST RH ASSEMBLY - PROPANE

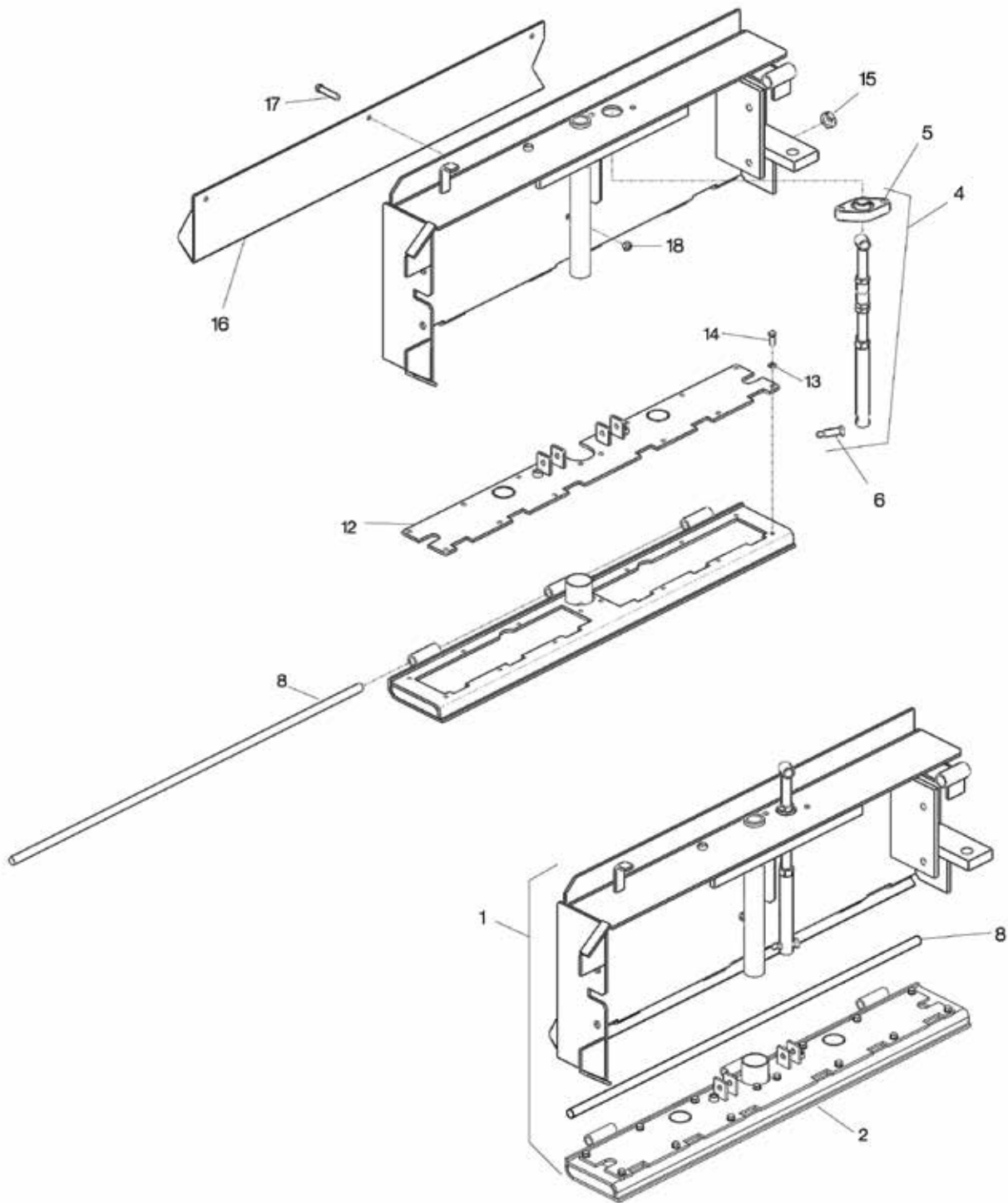


Figure 7-31

Extension Single Adjust RH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	859395SRV	1	Assy, Insert, Propane, 8500, RH	
2	851182SRV	1	Assy, Heat Box, Propane, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688 x 43.50, CRS	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24 x 1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180RSRV	1	Guard, RH Screed Ext Hinge	
17	860048	3	CSHH, .437-14 x 1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

EXTENSION DOUBLE ADJUST LH ASSEMBLY - PROPANE

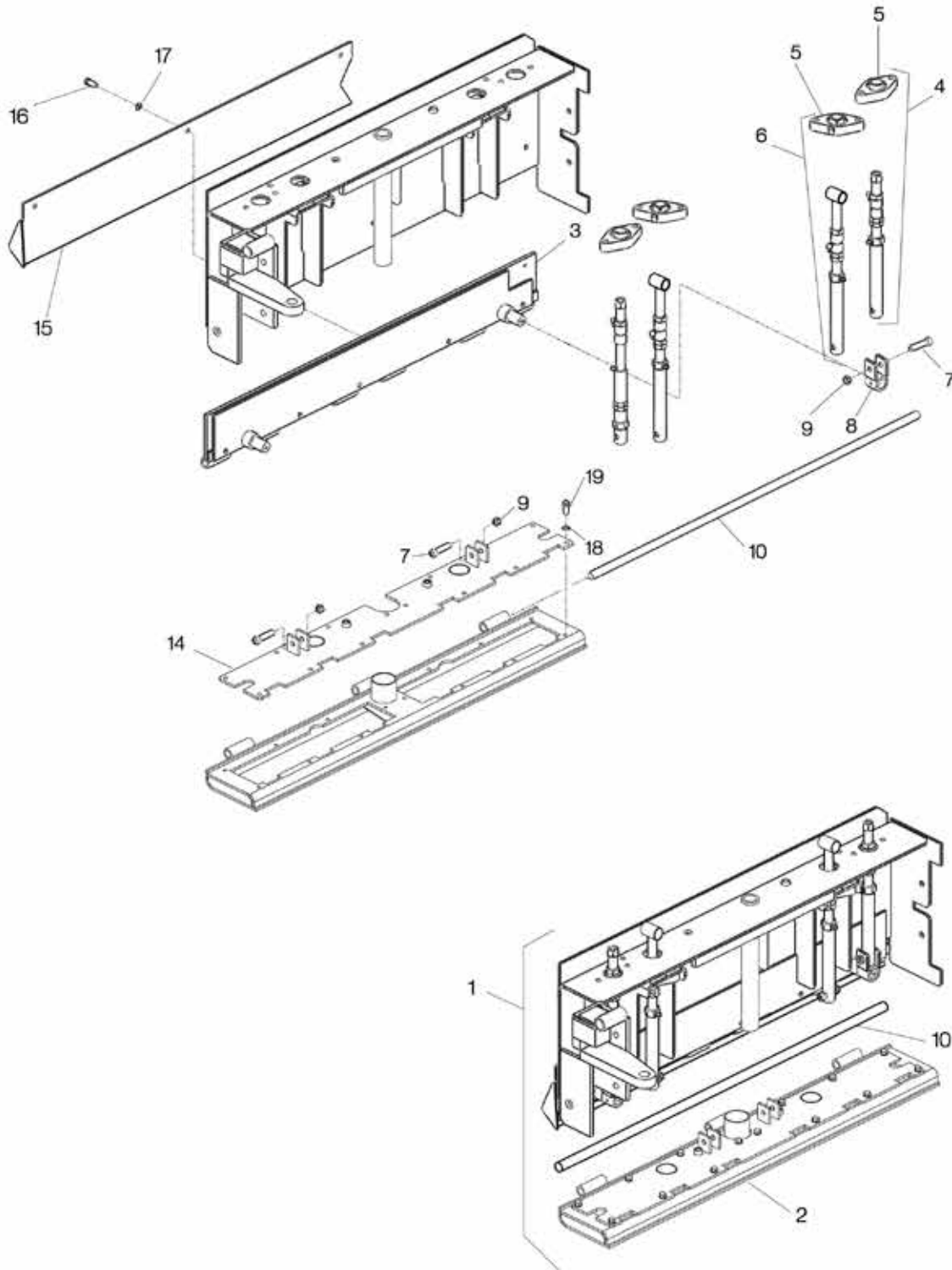


Figure 7-32

Extension Double Adjust LH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983410SRV	1	Assy, Insert, Slope, Prop, LH	With Slope
1a	983409-1SRV	1	Assy, Insert, Propane, LH	(Not Shown) Without Slope
2	988318SRV	1	Assy, Heat Box, Propane, 4 Adjust	
3	1002735	1	Hinge Assy	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688 x 43.50, CRS	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180LSRV	1	Guard, LH Screed Ext Hinge	
16	80230	3	CSHH, .375-16 x 2.00	
17	119-4	3	Washer, Lock, SAE, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20 x 1.00	

EXTENSION DOUBLE ADJUST RH ASSEMBLY - PROPANE

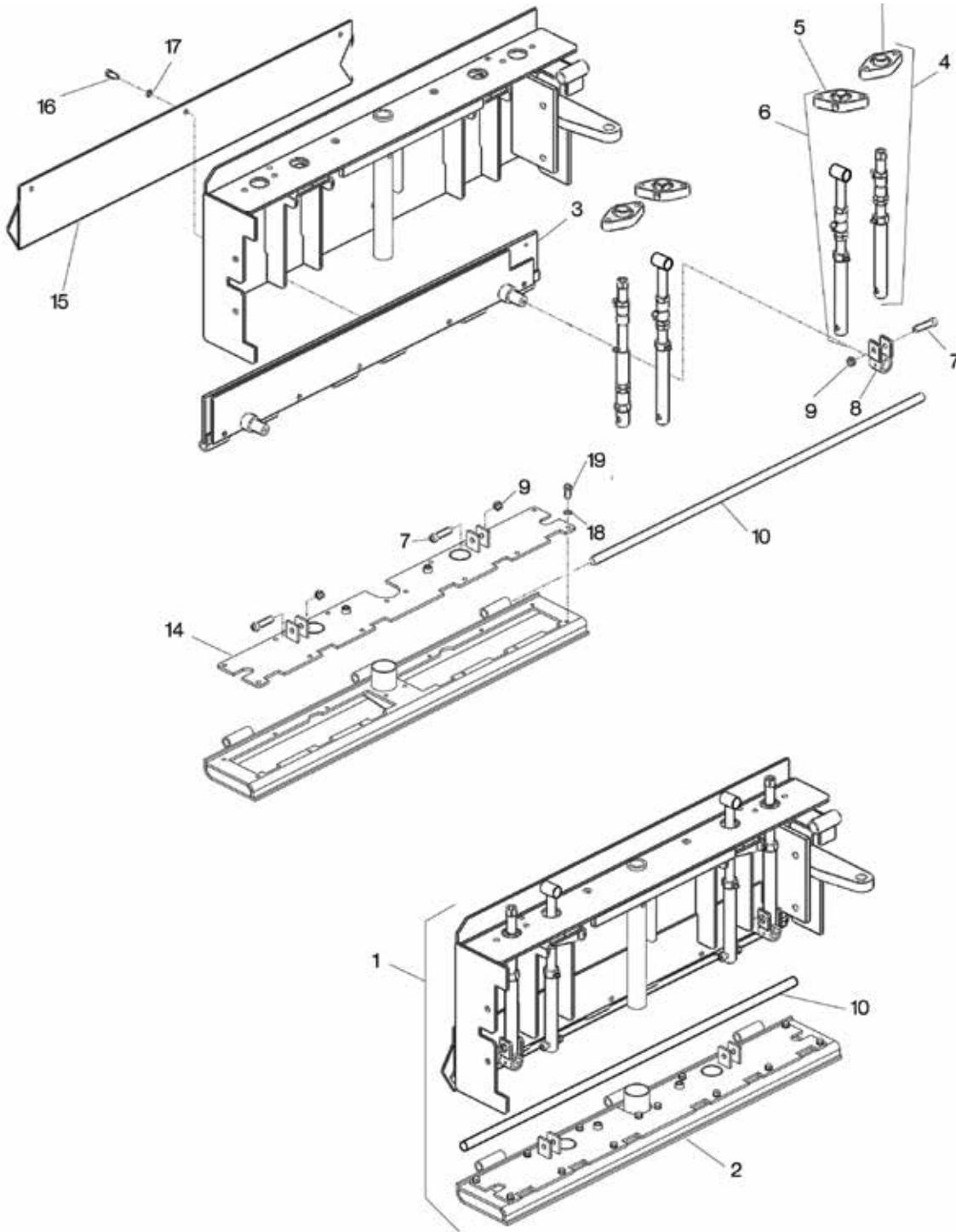


Figure 7-33

Extension Double Adjust RH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983409SRV	1	Assy, Insert, Slope, Prop, RH	With Slope
1a	983410-1SRV	1	Assy, Insert, Propane, RH, 4	(Not Shown) Without Slope
2	988318SRV	1	Assy, Heat Box, Propane, 4 Adjust	
3	1002736	1	Hinge Assy	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688 x 43.50, CRS	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180RSRV	1	Guard, RH Screed Ext Hinge	
16	80230	3	CSHH, .375-16 x 2.00	
17	119-4	3	Washer, Lock, SAE, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20 x 1.00	

SCREED FRAME NON-SLOPING - ELECTRIC

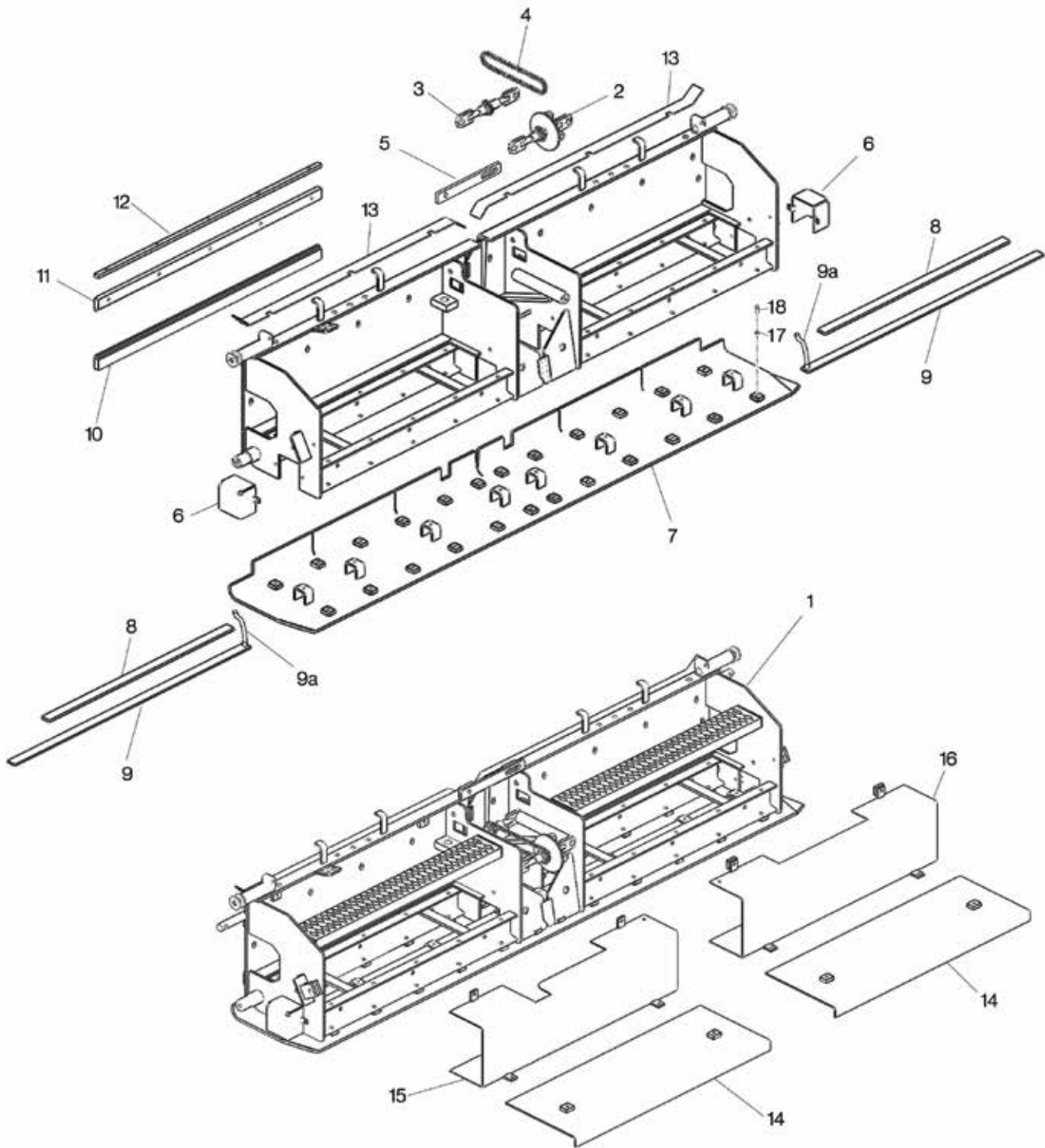


Figure 7-34

Screed Frame Non-Sloping - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	989377	1	Group, Screed Base 8500 Series Elec	Includes item 14, 15, 16
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40 x 52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
6	985124	2	Cover, Elements, Screed Base	
7	987216SRV	1	Wear Plate Assy, Electric	
8	985121	2	Bar, .375 x 1.50 x 42	
9	987886SRV	2	Element, Heater, Screed, 46"	
9a	985699-03	2	Wiring, Element, Heater Pigtail	
10	855783	1	Bottom Rail, 8500 Screed Ext	
11	855784	1	Top Rail, 8500 Screed Ext	
12	988556	1	Bar Jack, Screed Slide	
13	855562	1	Bar, .125 x 2.00 x 44.50, Notches	RH or LH
14	851201SRV	2	Cover, Screed Plate Access	
15	851204SRV	1	Cover, Screed LH Ext Cyl	
16	851203SRV	1	Cover, Screed RH Ext Cyl	
17	118-3	24	Washer, Lock, .375	
18	100-205-1A	24	CSHH, .375-24 x 1.00, GR5	

SCREED FRAME SLOPING - ELECTRIC

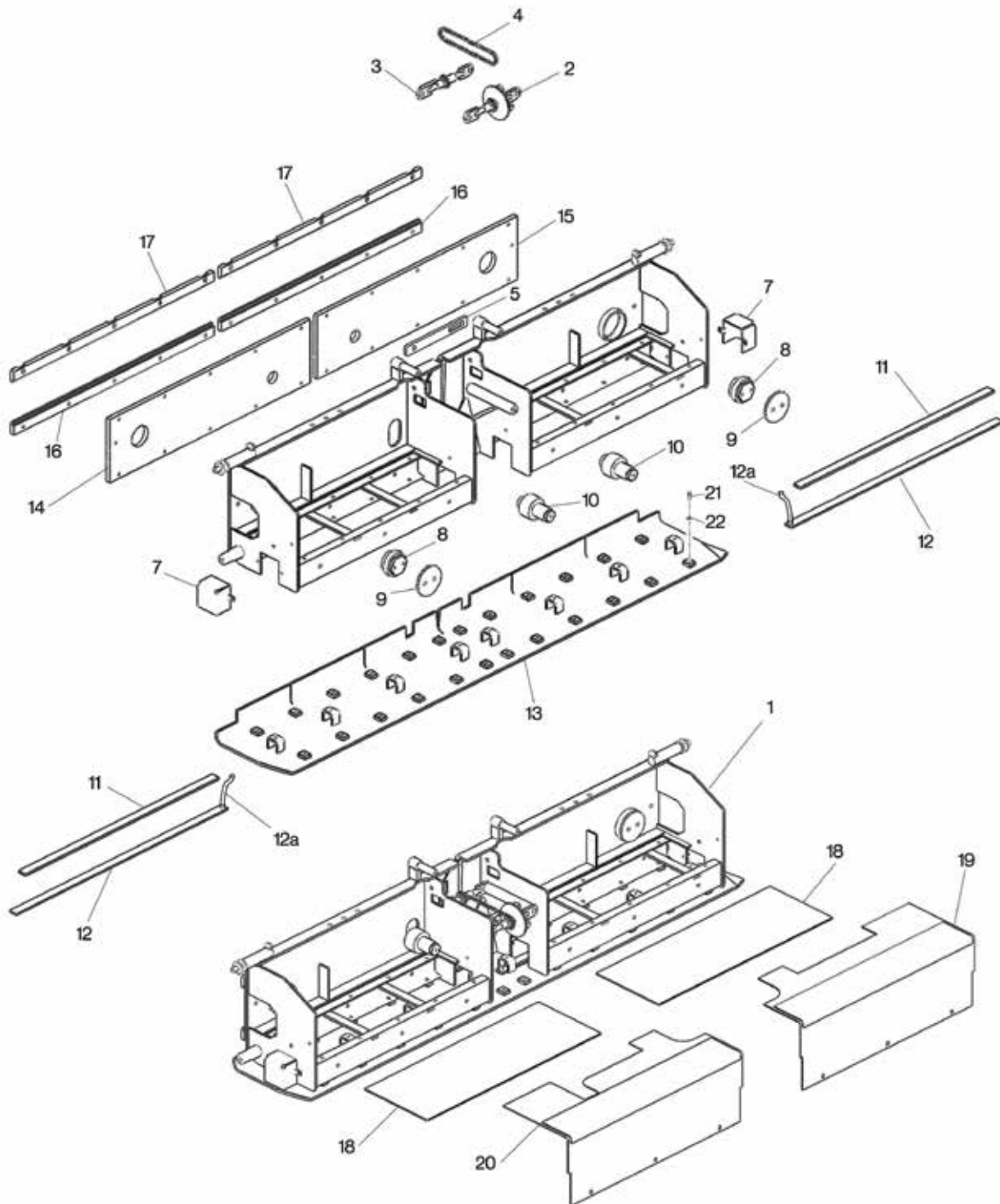


Figure 7-35

Screed Frame Sloping - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985547	1	Screed Base, 8515 Electric Slope	Includes item 18, 19, 20
2	870182	1	Crown & Valley Assy, Rear	
3	870172	1	Crown & Valley Assy, Front	
4	870190	1	Chain, Roller, 40 x 52 Pitch	
5	988376	1	Locking Bar, Crown And Valley	
6	985547	1	Screed Base, 8515 Electric Slope	
7	985124	2	Cover, Elements, Screed Base	
8	981659	2	Bar, Pivot	
9	981711	2	Plate, Pivot Cover	
10	981661	2	Pin, Cyl Mount	
11	985121	2	Bar, .375 x 1.50 x 42	
12	987886SRV	2	Element, Heater, Screed, 46"	
12a	985699-03	2	Wiring, Element, Heater Pigtail	
13	987216SRV	1	Wear Plate Assy, Electric	
14	981656	1	Plate, Rail Mount	
15	981656	1	Plate, Rail Mount	
16	981658	2	Bar, Bottom Rail	
17	981657	2	Bar, Top Rail	
18	985149	2	Cover, Screed Lid	
19	985147	1	Plate, Screed Cover, RH	
20	985148	1	Plate, Screed Cover, LH	
21	100-205-1A	24	CSHH, .375-24 x 1.00, GR5	
22	118-3	24	Washer, Lock, .375	

VIBRATOR ASSEMBLY LH

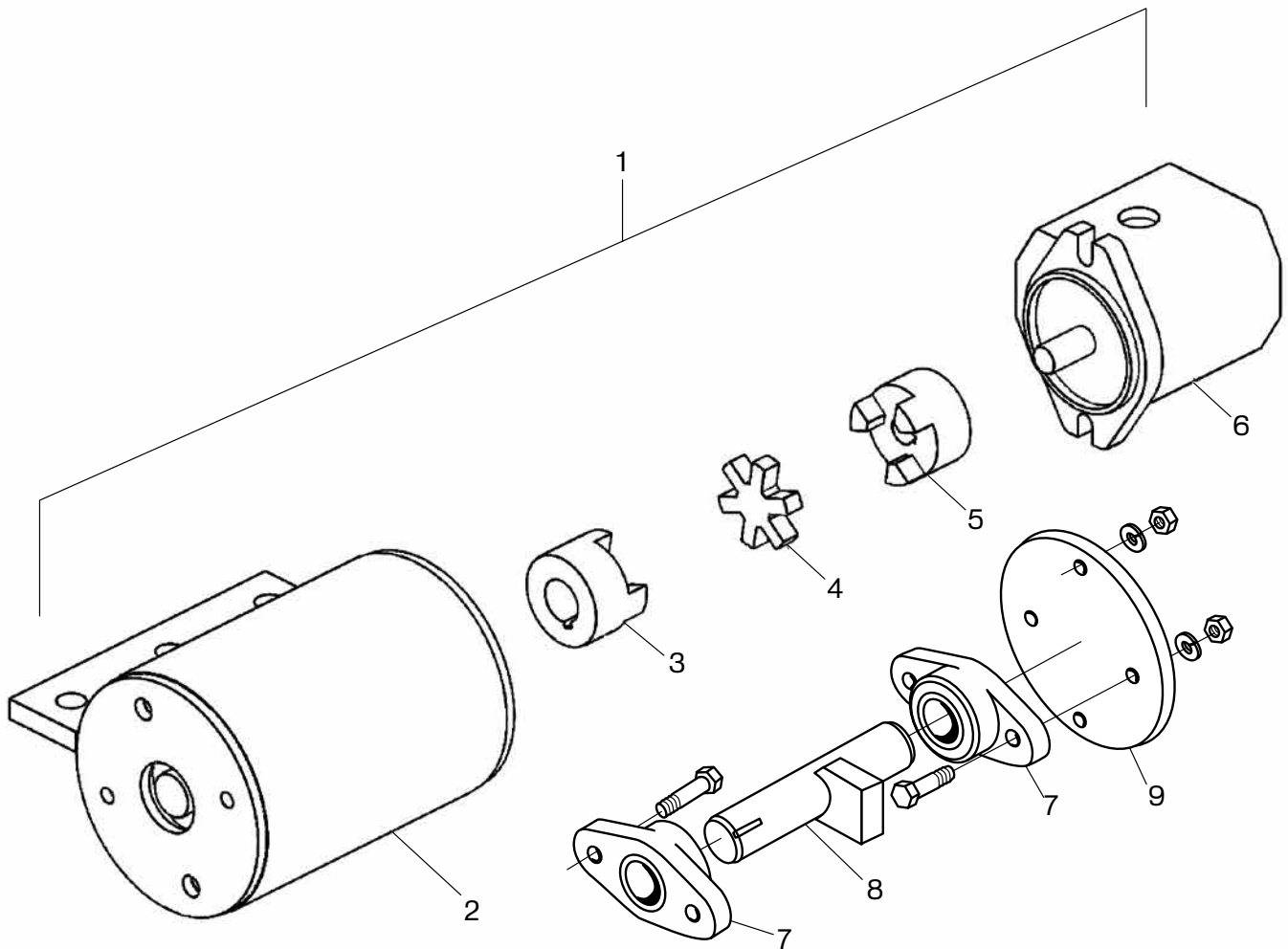


Figure 7-36

Vibrator Assembly LH Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965L	1	Assy, Vibrator LH	
2	982965L-1	1	Vibrator Housing, LH	
3	880030	1	Coupling Half, 1.00, Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hyd. Motor, Screed Vibrator	
7	250150	2	Bearing, Conveyor Pulley/Vibrator Shaft	
8	880062	1	Shaft, Vibrator Eccentric	
9	880071	1	Plate, Vibrator Housing	

VIBRATOR ASSEMBLY RH

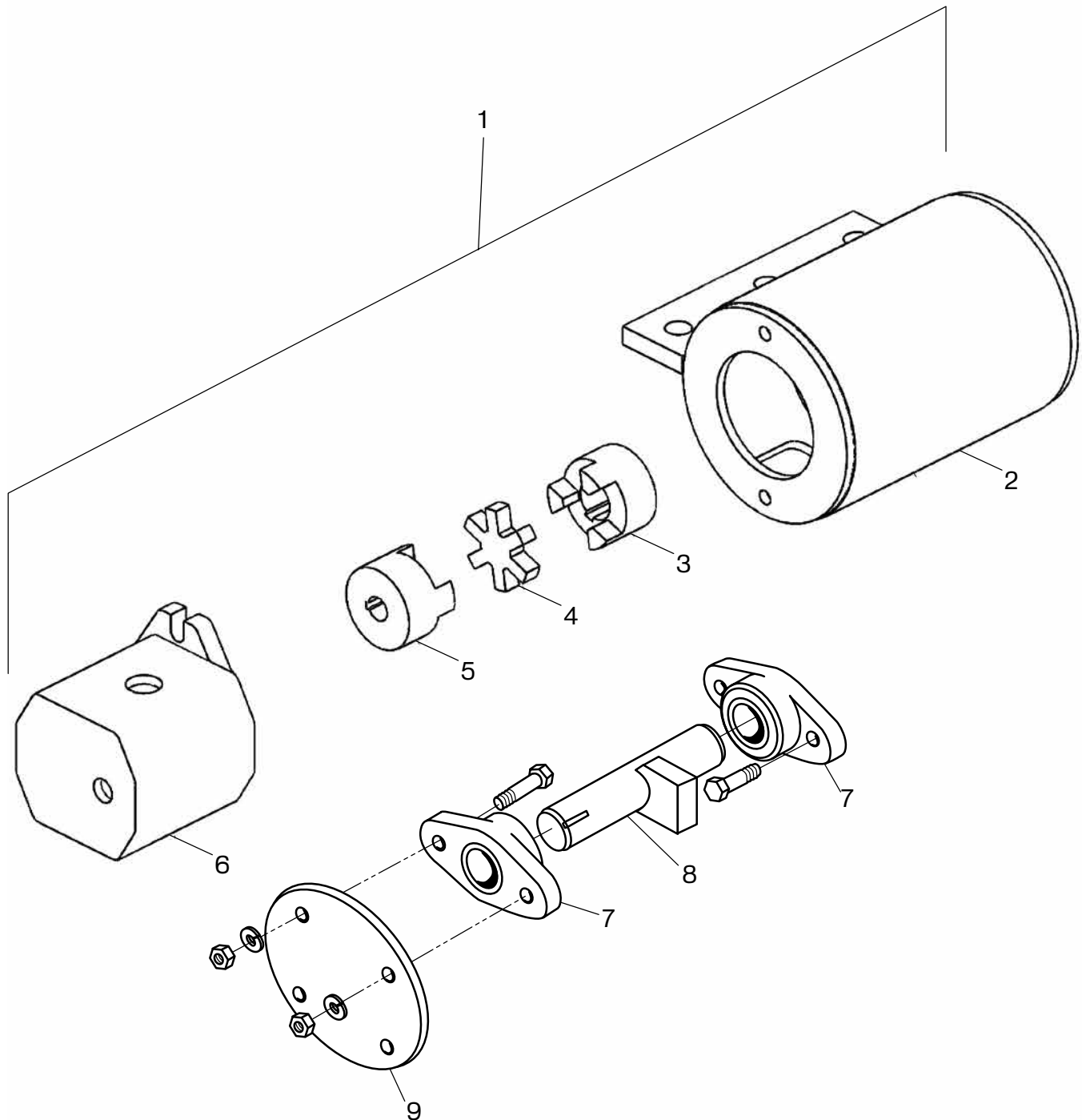


Figure 7-37

Vibrator Assembly RH Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965RSRV	1	Assy, Vibrator RH	
2	982965R-1	1	Vibrator Housing, RH	
3	880030	1	Coupling Half, 1.00, Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hyd. Motor, Screed Vibrator	
7	250150	2	Bearing, Conveyor Pulley/Vibrator Shaft	
8	880062	1	Shaft, Vibrator Eccentric	
9	880071	1	Plate, Vibrator Housing	

WALK BOARD ASSEMBLY

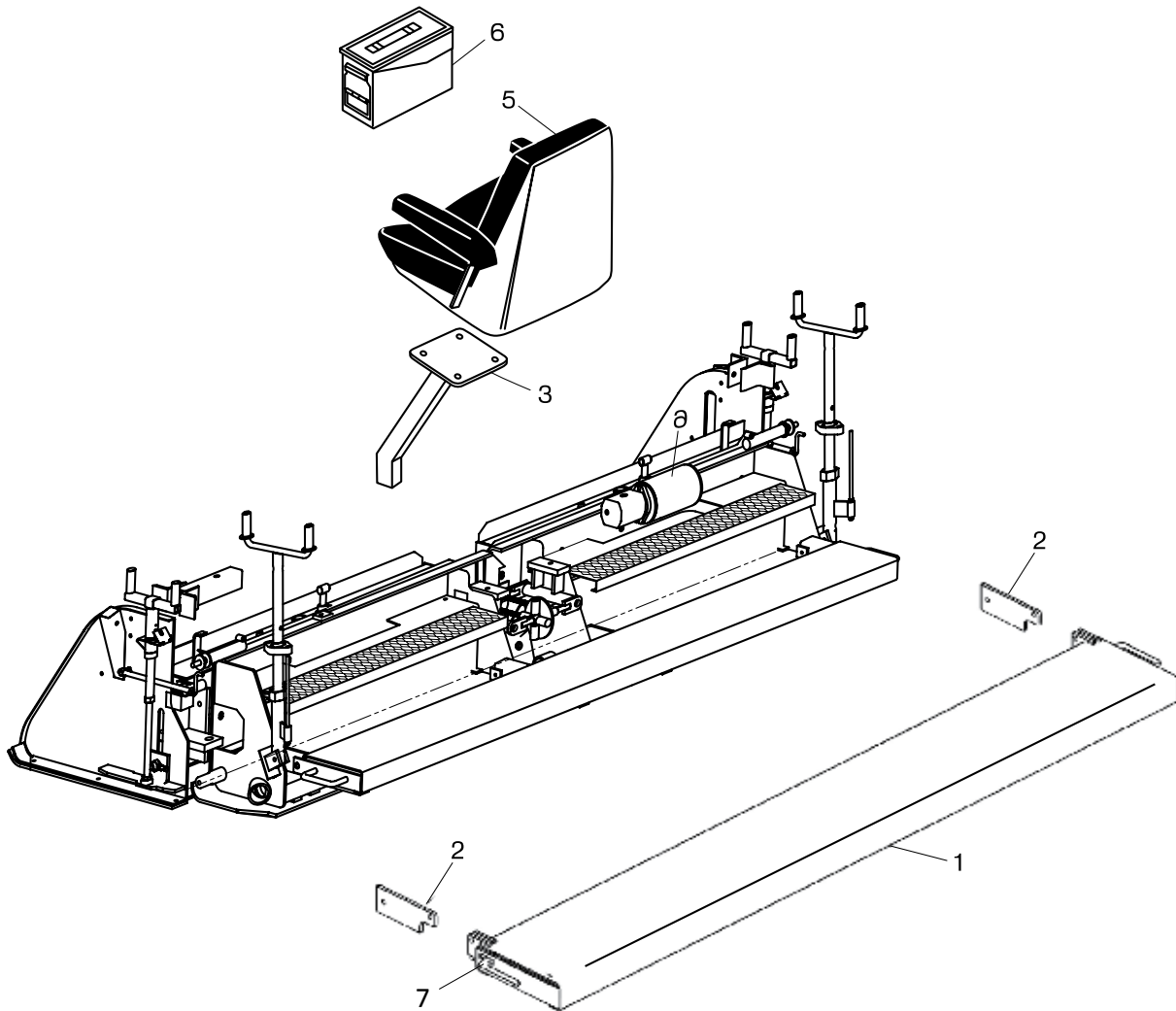


Figure 7-38

Walk Board Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987056	1	Assy, Walk Board	Includes item 2
2	985163	2	Walk Board Brkt	
3	920024SRV	1	Support, Seat H/D	
5	360010	1	Seat Assy W / Armrest, White	
6	851169	1	Tool Box	
7	985549	2	Latch, Walkboard	
—	920235	A/R	Umbrella	Not Shown

SLIDE PLATE ASSEMBLY

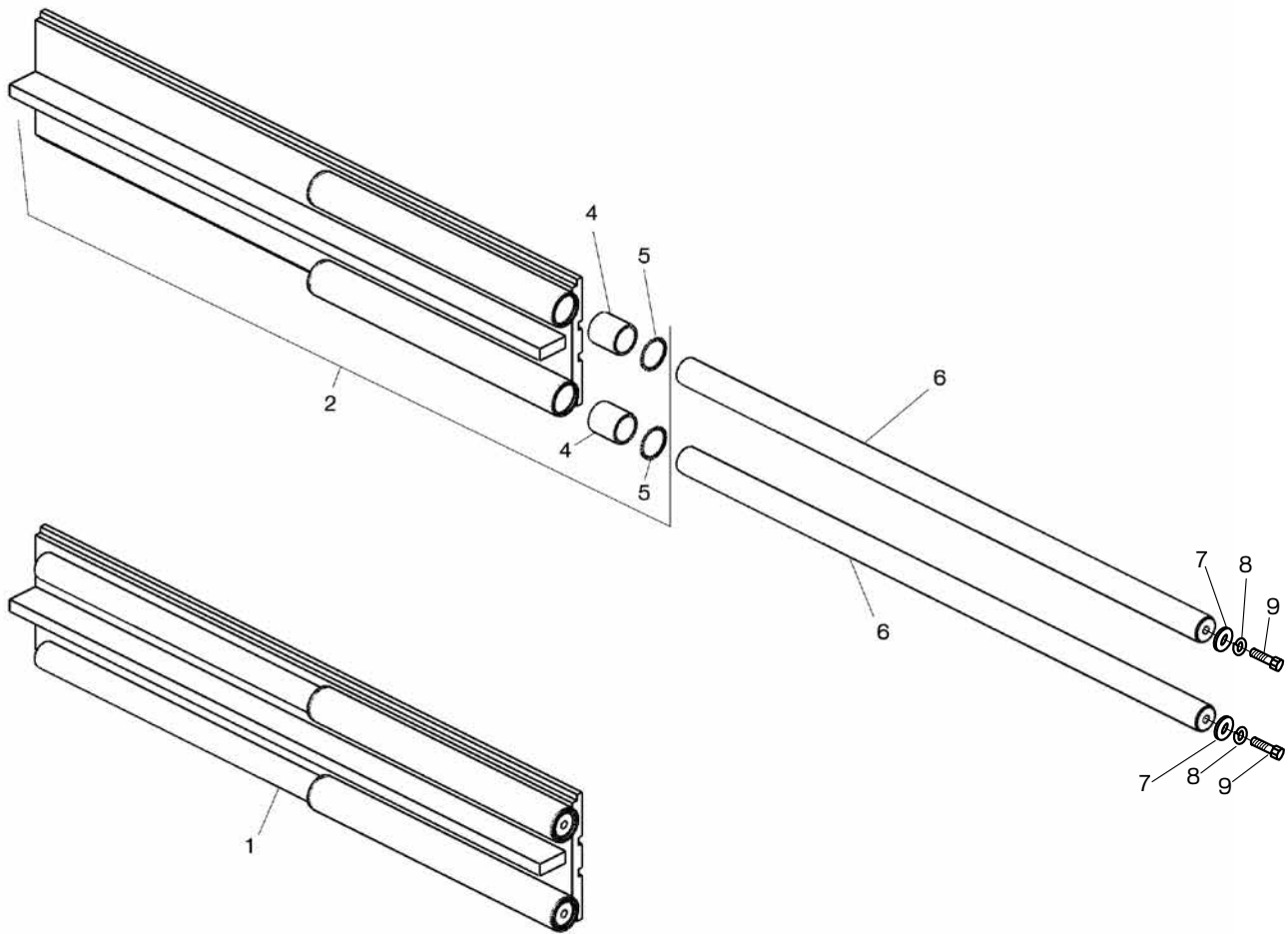


Figure 7-39

Slide Plate Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002186	1	Slide Plate Assy w/Chrome Rods	
2	1002181	1	Slide Plate Assy	
4	988588	4	Bushing	
5	851256	4	Snap Ring	
6	988601	2	Chrome Rod	
7	119-5	4	Washer, Flat, SAE, .500	
8	118-5	4	Washer, Lock, .500	
9	100-408-1	4	CSSH, .500-20 x 1.50	

EXTENSION SINGLE ADJUST LH ASSEMBLY - ELECTRIC

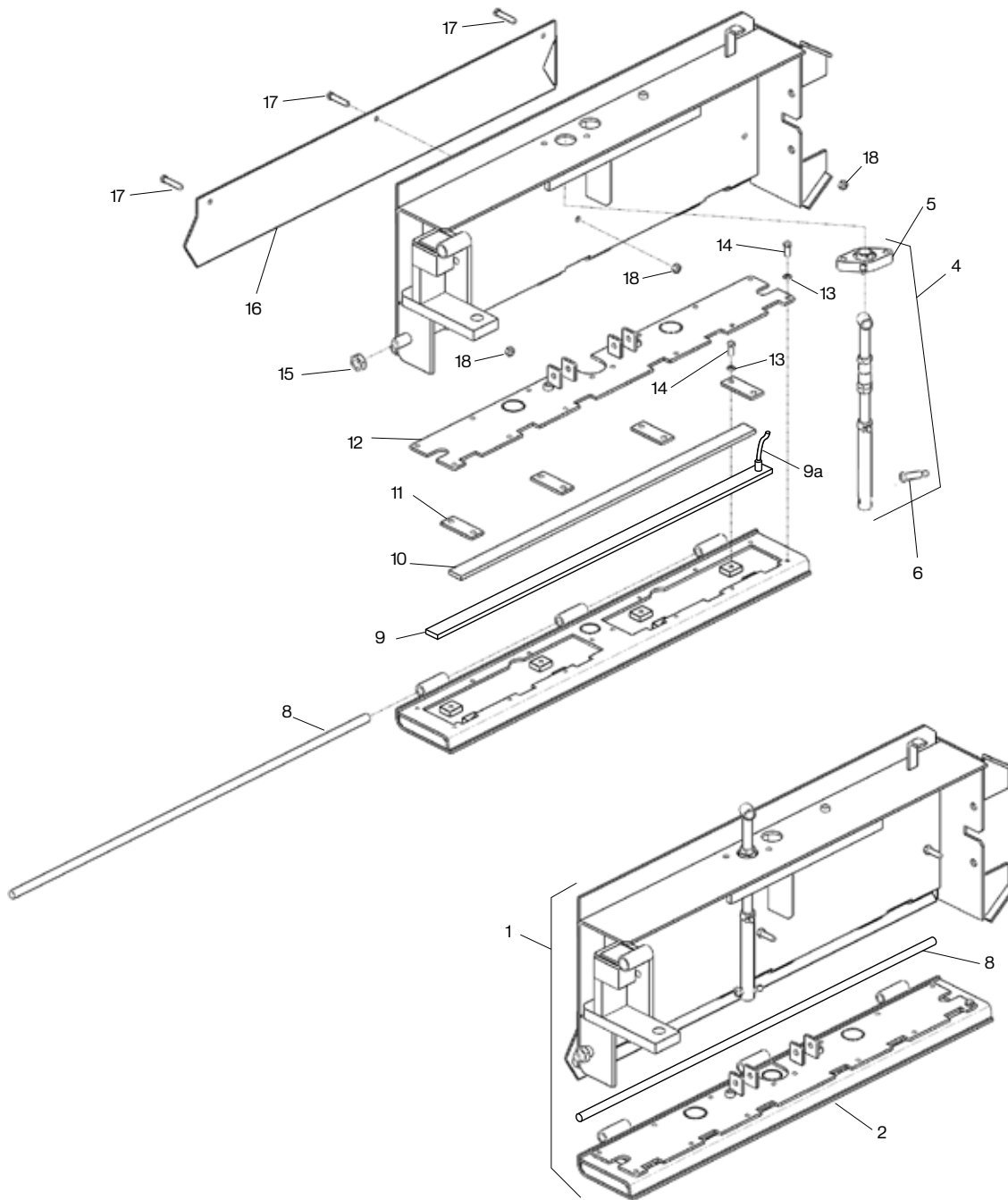


Figure 7-40

Extension Single Adjust LH Assembly - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985561SRV	1	Assy, Insert, Electric, 8500, LH	
2	987872SRV	1	Assy, Heat Box, Elec, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688 x 43.50, CRS	
9	987890SRV	1	Element, Heater, Screed, 40"	
9a	985699-03	1	Wiring, Element, Heater Pigtail	
10	985120	1	Bar, .250 x 1.50 x 36	
11	985123	4	Clamp, Element, Screed Ext	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24 x 1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180LSRV	1	Guard, LH Screed Ext Hinge	
17	860048	3	CSHH, .437-14 x 1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

EXTENSION SINGLE ADJUST RH ASSEMBLY - ELECTRIC

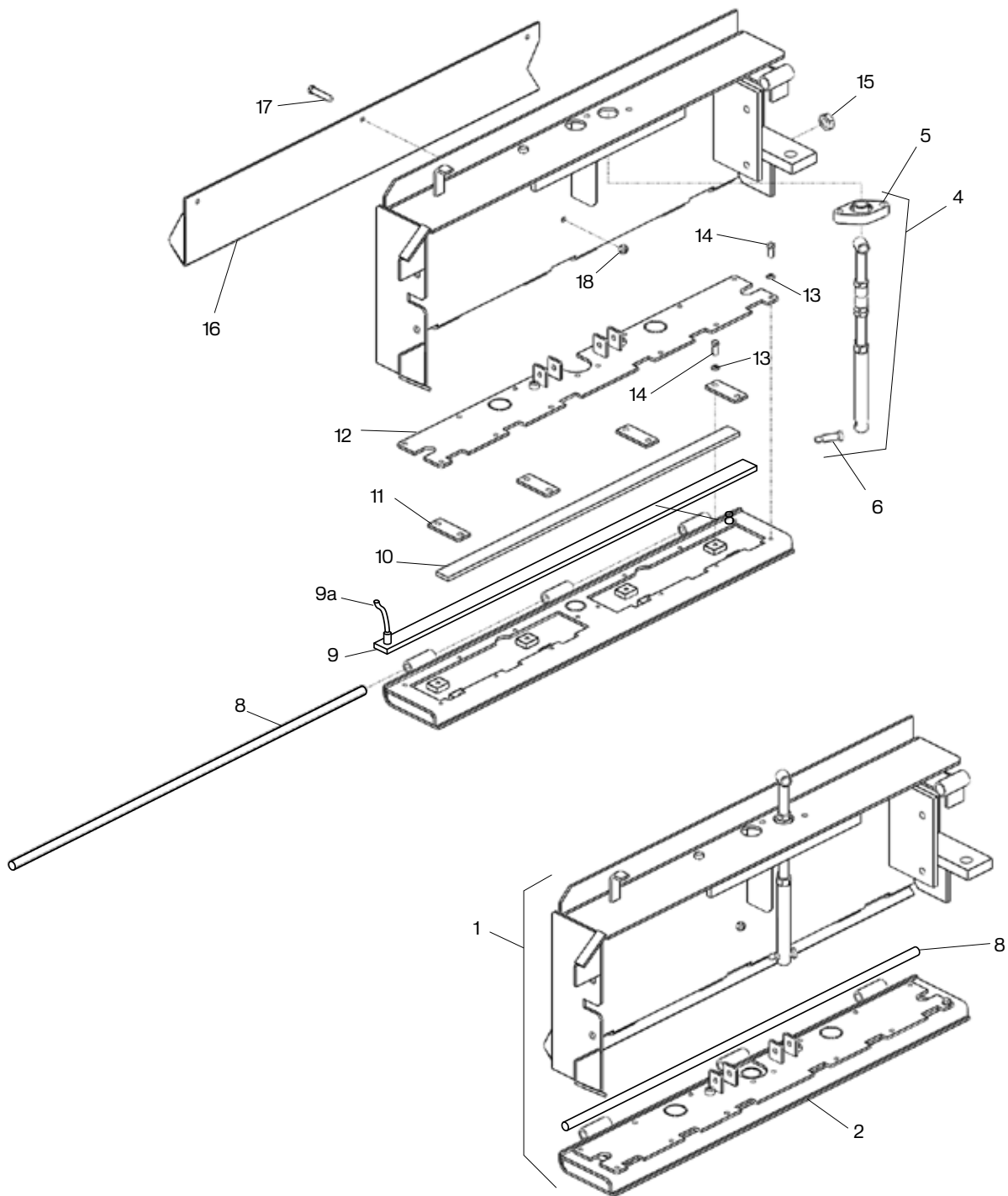


Figure 7-41

Extension Single Adjust RH Assembly - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	985562SRV	1	Assy, Insert, Electric, 8500, RH	
2	987872SRV	1	Assy, Heat Box, Elec, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688 x 43.50, CRS	
9	987890SRV	1	Element, Heater, Screed, 40"	
9a	985699-03	1	Wiring, Element, Heater Pigtail	
10	985120	1	Bar, .250 x 1.50 x 36	
11	985123	4	Clamp, Element, Screed Ext	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24 x 1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180RSRV	1	Guard, RH Screed Ext Hinge	
17	860048	3	CSHH, .437-14 x 1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	

EXTENSION DOUBLE ADJUST LH ASSEMBLY - ELECTRIC

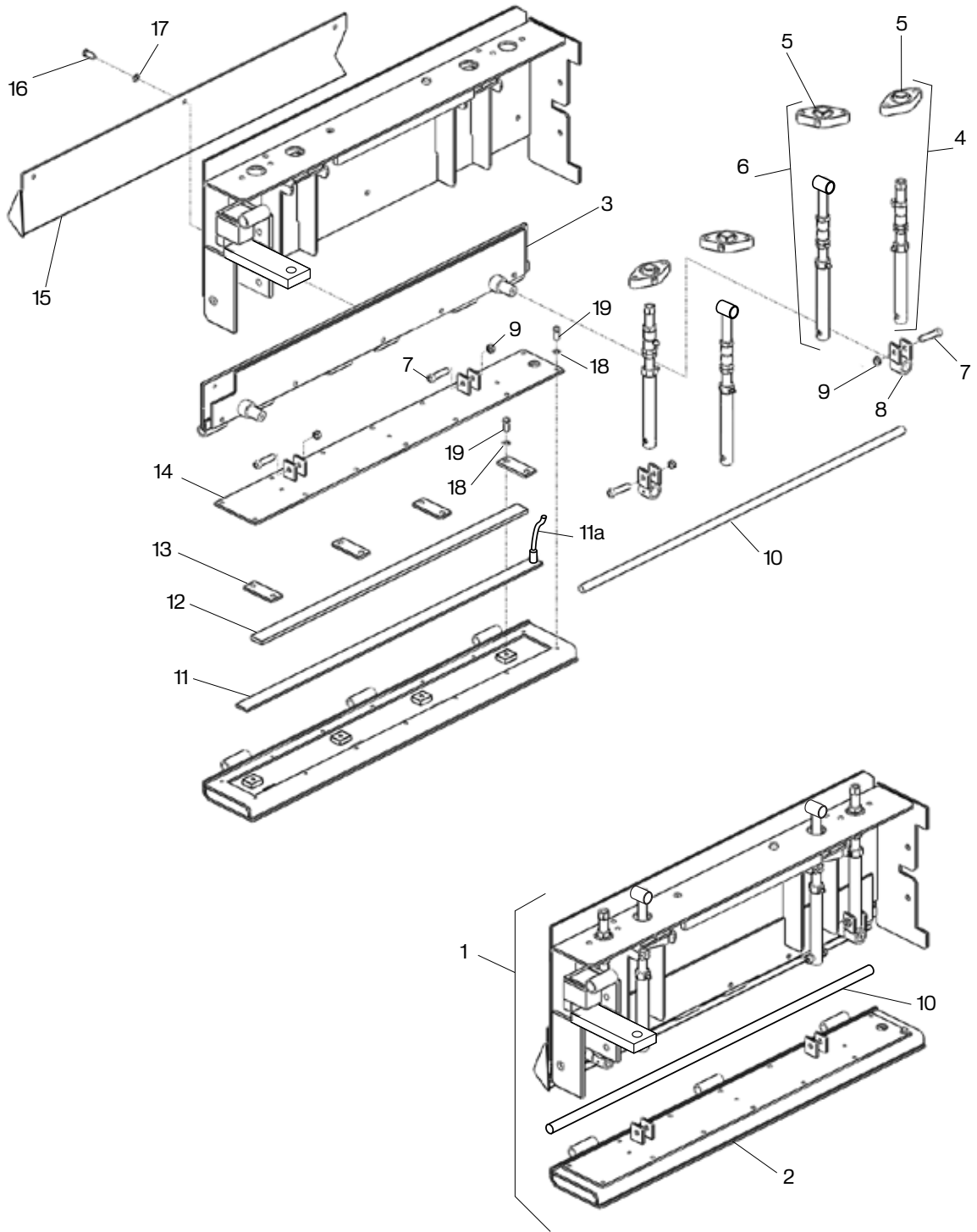


Figure 7-42

Extension Double Adjust LH Assembly - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984305	1	Assy, Insert, Slope, Elec, LH	With Slope
1a	984305-1	1	Assy, Insert, Elec, LH	(Not Shown) Without Slope
2	988319SRV	1	Assy, Heat Box, Elec, 4 Adjust	
3	1002735	1	Hinge Assy	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688 x 43.50, CRS	
11	987890SRV	1	Element, Heater, Screed, 40"	
11a	985699-03	1	Wiring, Element, Heater Pigtail	
12	985120	1	Bar, .250 x 1.50 x 36	
13	985123	4	Clamp, Element, Screed Ext	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180LSRV	1	Guard, LH Screed Ext Hinge	
16	80230	3	CSHH, .375-16 x 2.00	
17	119-4	3	Washer, Lock, SAE, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20 x 1.00	

EXTENSION DOUBLE ADJUST RH ASSEMBLY - ELECTRIC

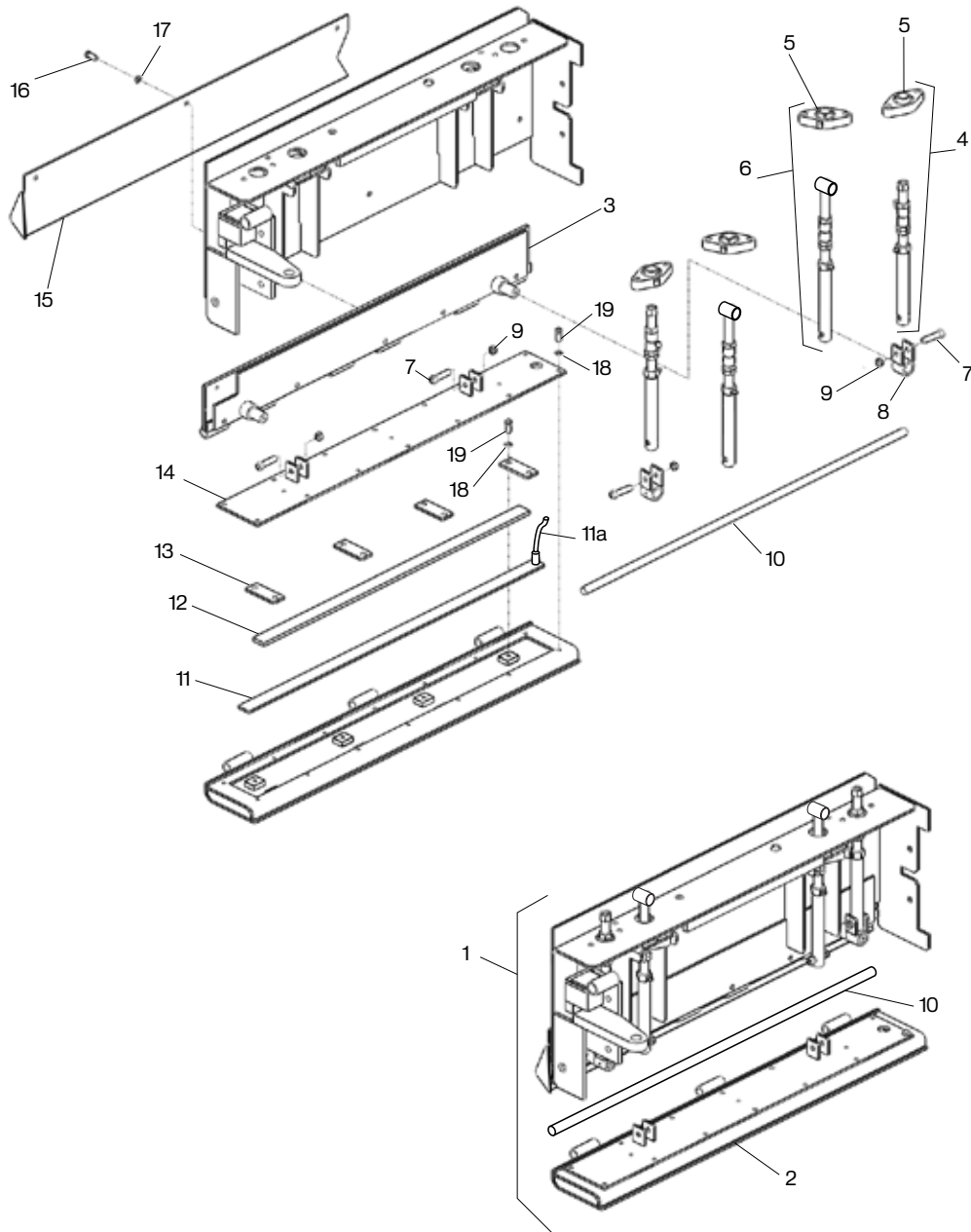


Figure 7-43

Extension Double Adjust RH Assembly - Electric Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984306SRV	1	Assy, Insert, Slope, Elec, RH	With Slope
1a	984306-1	1	Assy, Insert, Elec, RH, 4	(Not Shown) Without Slope
2	988319SRV	1	Assy, Heat Box, Elec, 4 Adjust	
3	1002736	1	Hinge Assy	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688 x 43.50, CRS	
11	987890SRV	1	Element, Heater, Screed, 40"	
11a	985699-03	1	Wiring, Element, Heater Pigtail	
12	985120	1	Bar, .250 x 1.50 x 36	
13	985123	4	Clamp, Element, Screed Ext	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180RSRV	1	Guard, RH Screed Ext Hinge	
16	80230	3	CSHH, .375-16 x 2.00	
17	119-4	3	Washer, Lock, SAE, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20 x 1.00	

ENDGATE LH ASSEMBLY

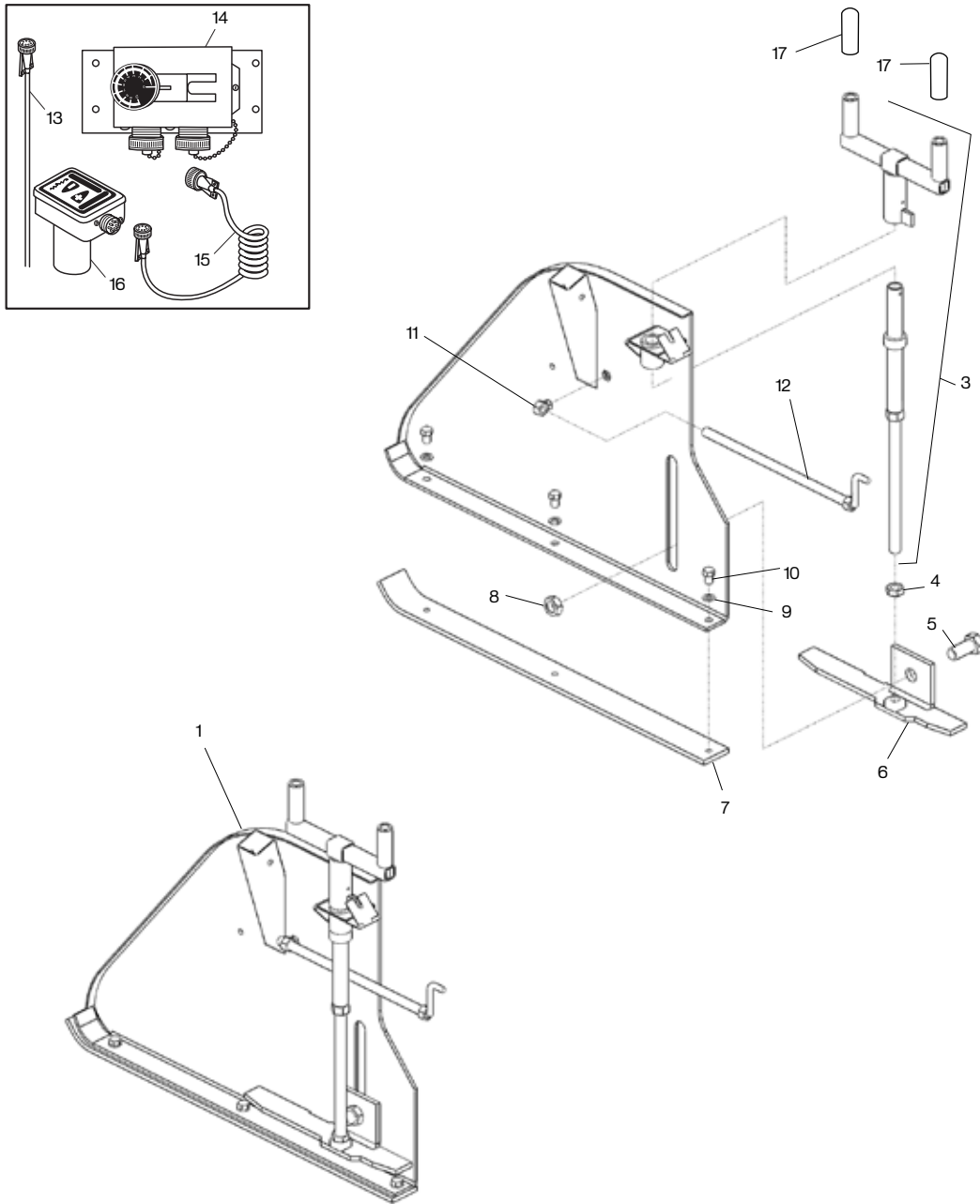


Figure 7-44

Endgate LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983308SRV	1	Jointer Assy, 8515, LH	
3	890092SRV	1	Depth Screw Assy, Screed	
4	116-8-1	1	Nut, .750-10 UNC Hex Jam	
5	102-809-1A	1	CSHH, .875-9 x 2.00, GR5	Reference Only
6	890132LSRV	1	Bracket, Depth Screw Control LH	
7	982963	1	Bar, End Gate Skid 8515	
8	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
9	80164	3	Washer, Lock, .500	
10	80840	3	CSHH, .500-13 x .750	
11	890070	1	Assy, Adjusting Swivel Nut	
12	890081SRV	1	Tilt Screw, Jointer Assy	
13	982796	1	Cable, Power, Ultrasonic	
14	982795	1	Remote Pod, Ultra Sonic	
15	983050	1	Coil Cord, 6s/6s 1.5 to 7.5 ft	
16	982794	1	Sensor, Ultra Sonic	
17	870276	2	Hand Grip, Flight/Depth Screw	

ENDGATE RH ASSEMBLY

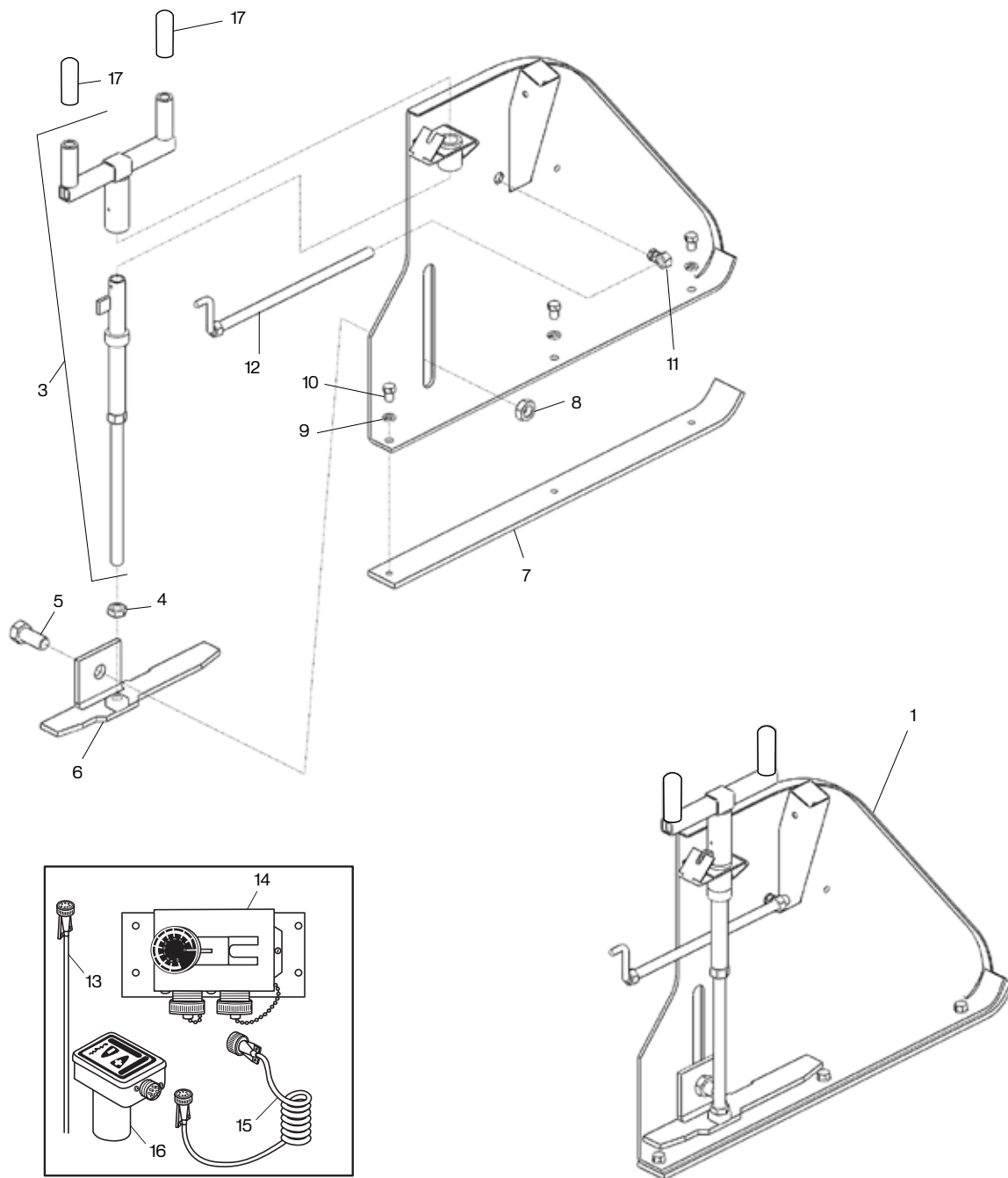


Figure 7-45

Endgate RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983309SRV	1	Jointer Assy, 8515, RH	
3	890092SRV	1	Depth Screw Assy, Screed	
4	116-8-1	1	Nut, .750-10 UNC Hex Jam	
5	102-809-1A	1	CSHH, .875-9 x 2.00, GR5	Reference Only
6	890132RSRV	1	Bracket, Depth Screw Control RH	
7	982963SRV	1	Wear Plate, End Gate, 8515	
8	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
9	118-5	3	Washer, Lock, .500	
10	80840	3	CSHH, .500-13 x .750	
11	890070	1	Assy, Adjusting Swivel Nut	
12	890081SRV	1	Tilt Screw, Jointer Assy	
13	982796	1	Cable, Power, Ultrasonic	
14	982795	1	Remote Pod, Ultra Sonic	
15	983050	1	Coil Cord, 6s/6s 1.5 to 7.5 ft	
16	982794	1	Sensor, Ultra Sonic	
17	870276	2	Hand Grip, Flight/Depth Screw	
-	1000397	A/R	Element, Heating, 570W, 240V, 13"	Option
-	1000893	A/R	Element, Heating, 970W, 240V, 24.75"	Option

SCREED PULL ARMS LH ASSEMBLY

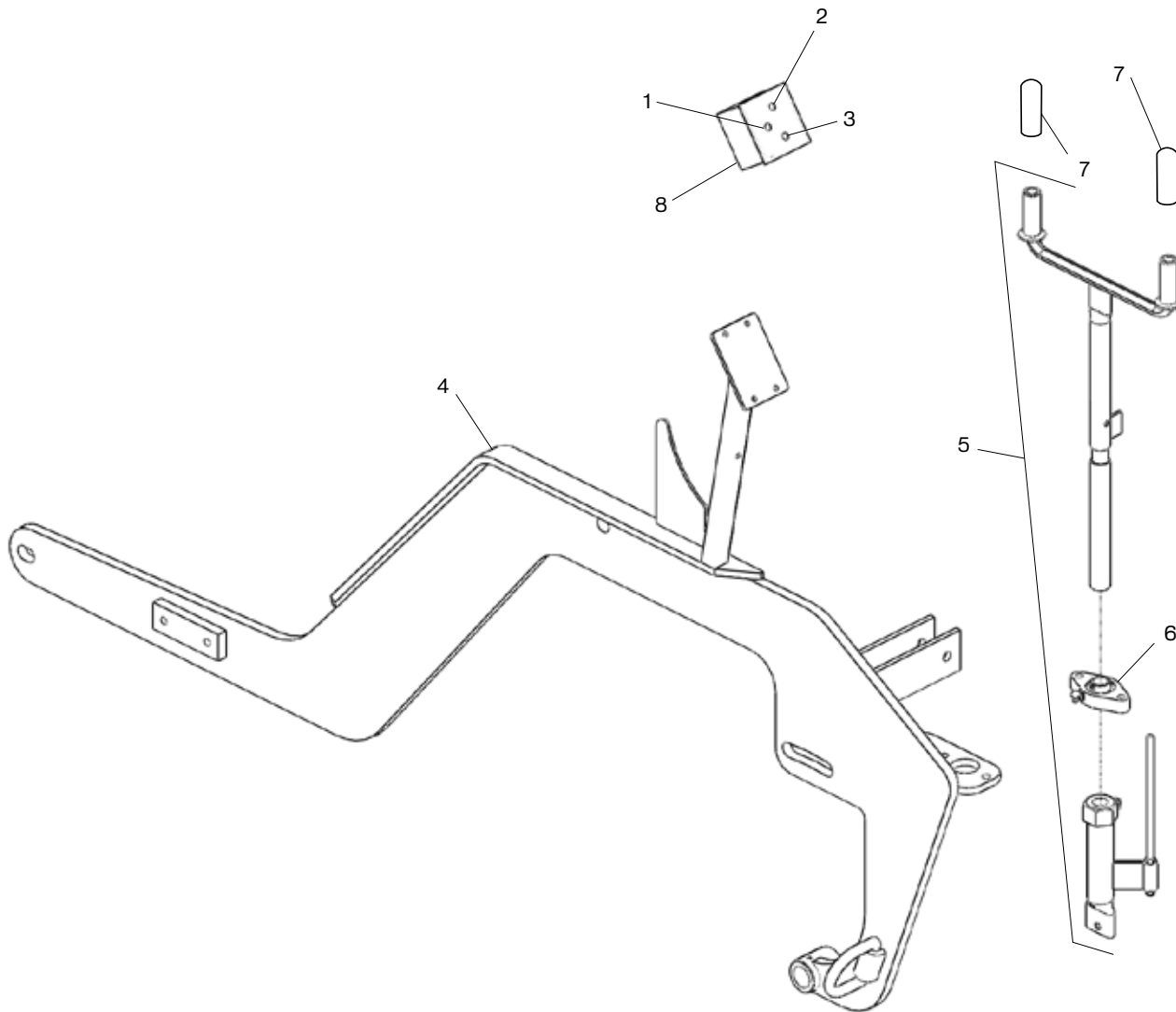


Figure 7-46

Screed Pull Arms LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851393	1	Switch, Toggle	
2	900030	1	Switch, Toggle	
3	900030	1	Switch, Toggle	
4	984897SRV	1	Assy, Screed Arm, 8515, LH	
5	1002728SRV	1	Flight Screw Assy	PN 851370 is same w/o height rod
6	870030	1	Bearing, Screed Flight Screw	
7	870276	2	Hand Grip, Flight/Depth Screw	
8	984534L	1	Enclosure, Elec 3 SW, LWR Cont	Left

SCREED PULL ARMS RH ASSEMBLY

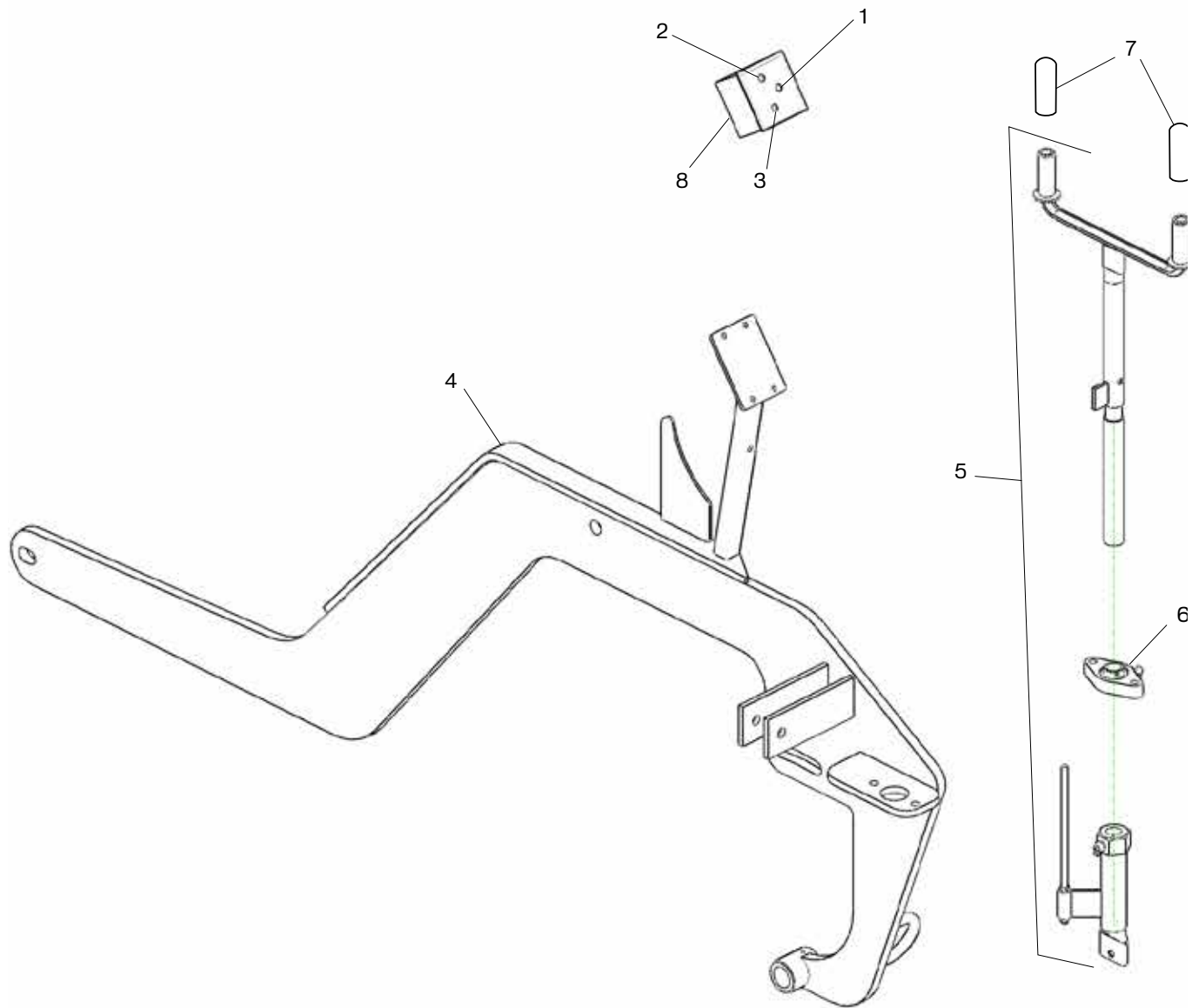


Figure 7-47

Screed Pull Arms RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851393	1	Switch, Toggle	
2	900030	1	Switch, Toggle	
3	900030	1	Switch, Toggle	
4	984896SRV	1	Assy, Screed Arm, 8515, RH	
5	1002728SRV	1	Flight Screw Assy	PN 851370 is same w/o height rod
6	870030	1	Bearing, Screed Flight Screw	
7	870276	2	Hand Grip, Flight/Depth Screw	
8	984534R	1	Enclosure, Elec 3 SW, LWR Cont	Right

CITRUS TANK & HEAT CONTROL BOX

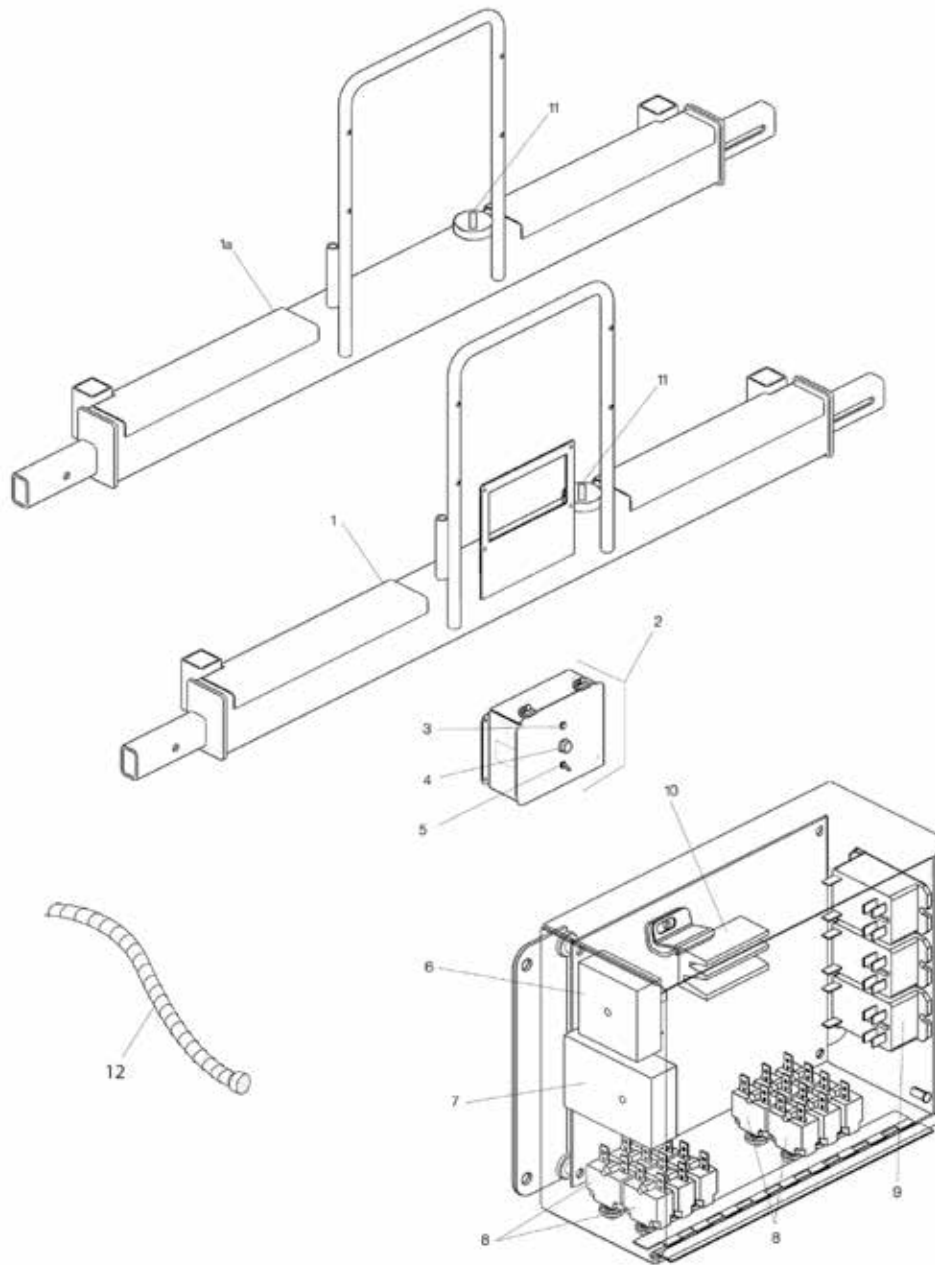


Figure 7-48

Citrus Tank & Heat Control Box Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1008862	1	Assy, Screed, Citrus, Tank, Elec	Includes Item No. 11
1a	985777SRV	1	Assy, Screed, Citrus, Tank, Propane	Includes Item No. 11
2	985138	1	Assy, Electric Heat Control	
3	31983	1	Light, Red, Dash, .500 Hole	
4	982249	1	Switch, Push Button	
5	851391	1	Switch, Toggle, SPST, 2-POS	
6	985142	1	Timer, Elec	
7	988231	1	Relay, Time Delay, Off, 10 Amp	
8	985140	12	Breaker, 15 Amp	
9	985141	3	Relay, 12VDC, DPST ,25 AMP, N/O	
10	985138-04	1	Block, Terminal	
11	140030FL	1	Cap, Fuel Tank, Lockable	
12	985138-03	1	Power Cord, Bulkhead to Control Box	
-	140030GK	1	Strainer & Gasket Kit	

SCREED MISCELLANEOUS COMPONENTS

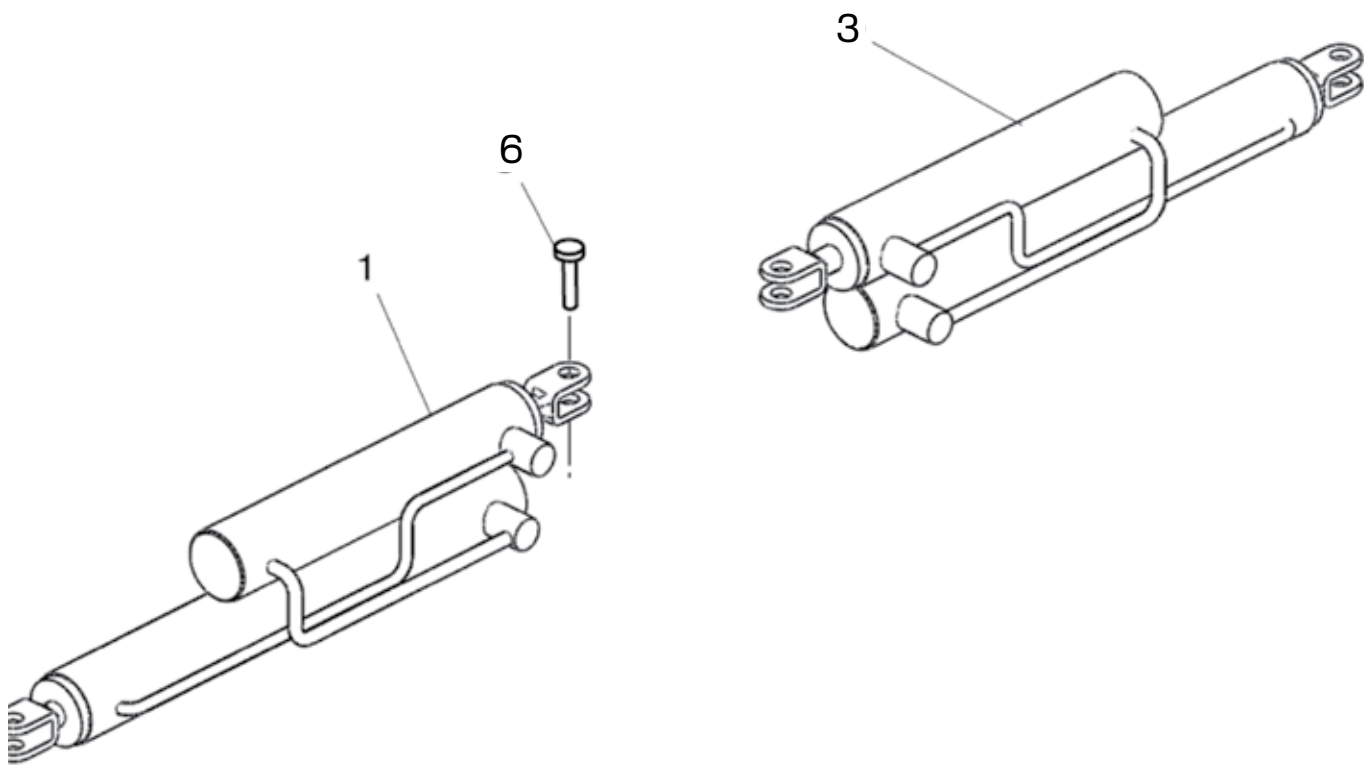


Figure 7-49

Screed Miscellaneous Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	851191	1	Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	LH, Non Sloping Screed
–	851191-01	1	Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	Not Shown
2	851192	1	Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	RH, Non Sloping Screed
–	851191-01	1	Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	Not Shown
3	981710R	1	Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	RH, Sloping Screed
–	981710-1	1	Seal Kit, Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	Not Shown
4	981710L	1	Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	LH, Sloping Screed
–	981710-1	1	Seal Kit, Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	Not Shown
5	983421	2	Cyl, Hyd, 2.75 x 2.00 x 1.125 Rod	
–	983421-01	1	Seal Kit, Cyl, Hyd, 2.75 x 2.00 x 1.125 Rod	Not Shown
6	210060	2	Pin, Cylinder	

GENERATOR

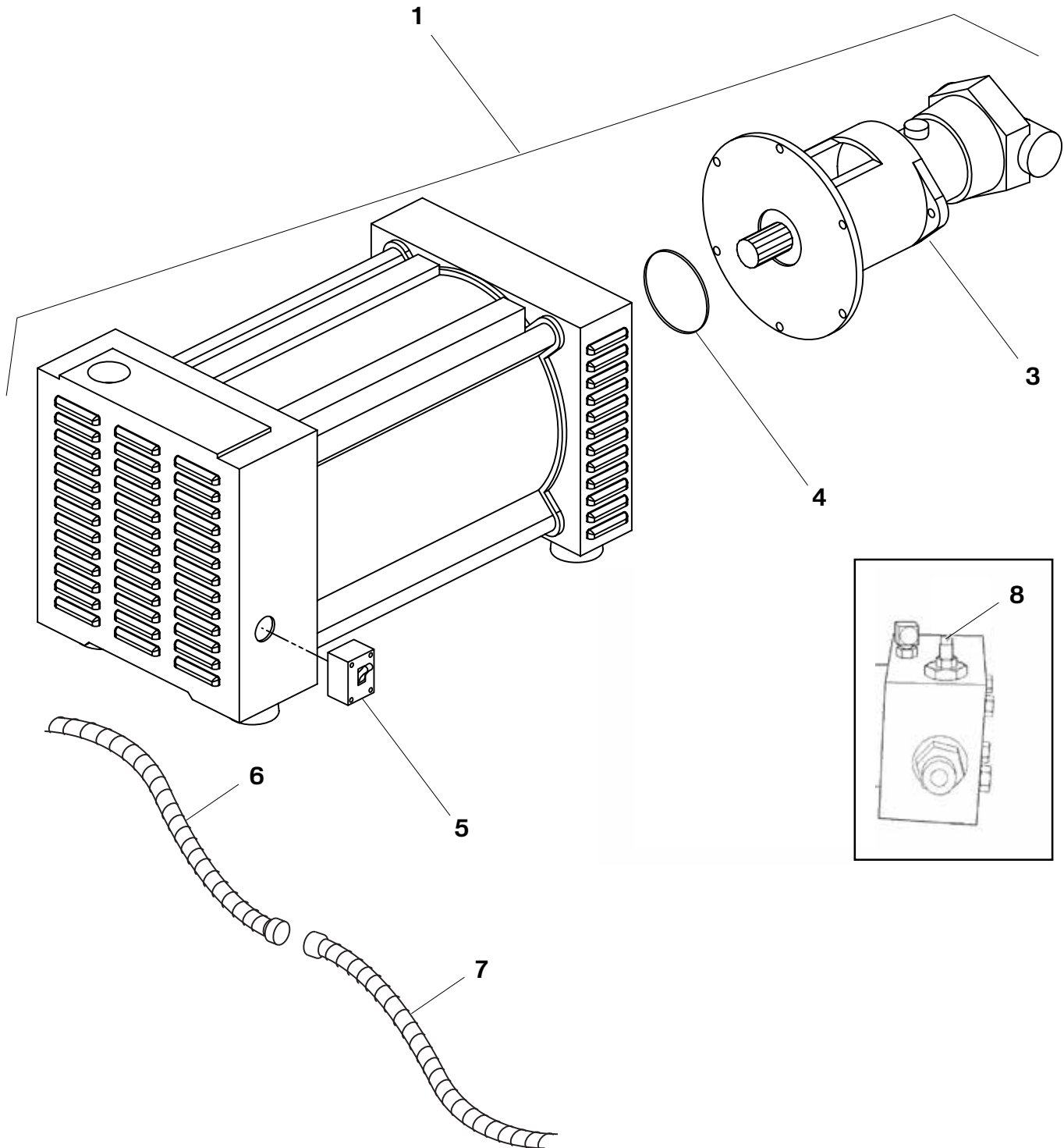


Figure 7-50

Generator Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987893	1	Generator, Hyd., 85XX, Assy	Image may not be visually accurate
3	986994	1	Motor, Hyd, Generator	
4	Reference	1	Seal	
5	985880	1	Breaker, Main	
6	1007253	1	Power Cord, Bulkhead to Control Box	
7	1007254	1	Harness, Electric Heat, Gen. to Bulkhead	
8	986992	1	Manifold, Generator, w/Flow Control	
–	986992-01	A/R	Valve, Cartridge SV16	
–	986992-02	A/R	Valve, Relief RV-10	
–	986992-03	A/R	Valve, Check CV10	
–	986992-04	A/R	Regulator, Flow FR12-33A	
–	986992-05	A/R	Manifold, Generator	
–	986992-06	A/R	Kit, Viton O-Ring	
–	986992-07	A/R	Valve, Check	
–	986658	1	Capacitor, Generator, 40 uF	Not Shown
–	1002148	1	Capacitor, Generator, 30 uF	Not Shown
–	1002147	1	Capacitor, Generator, 25 uF	Not Shown
–	1002146	1	Capacitor, Generator, 20 uF	Not Shown
–	987894	1	Coupling Assy, Motor To Generator, 28 mm	Not Shown
–	1002454	1	Coupling Half, 3 Jaw, 24 mm	Not Shown

815HD SERIES SCREED 8515 NON-SLOPING OVERVIEW

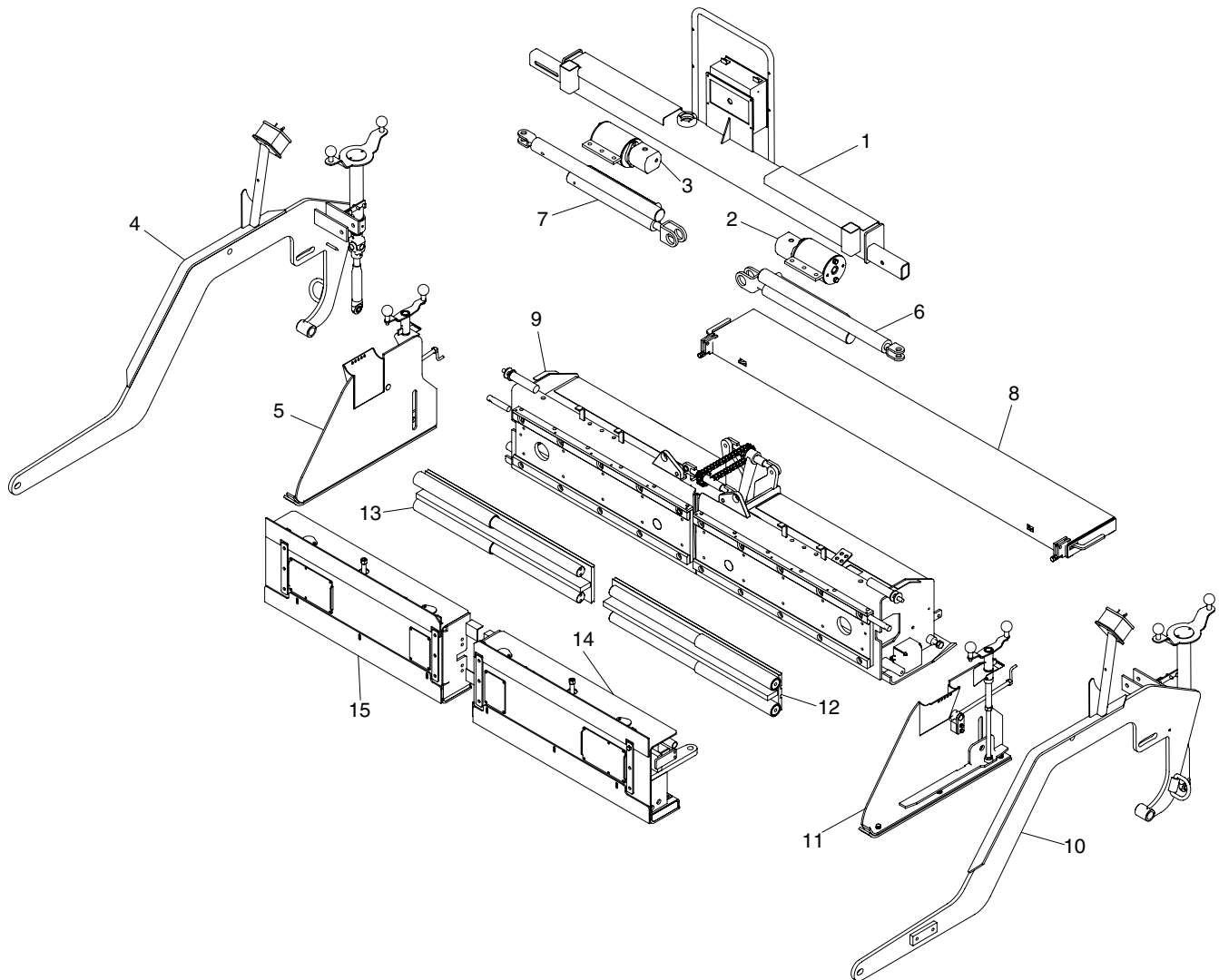


Figure 7-51

815HD Series Screed 8515 Non-sloping Figure List

Item No.	Ref. Figure	Description	Remarks
-	-	Model, Screed, 815HD	LPN: 1008002, complete assembly
1	7-61	Citrus Tank & Electric Heat Control Box	
2	7-52	Vibrator Assembly LH	
3	7-52	Vibrator Assembly RH	
4	7-60	Pull Arm and Remote Control Box RH	
5	7-558	Endgate Assembly RH	
6	7-51	Miscellaneous Components	
7	7-51	Miscellaneous Components	
8	7-53	Walk Board Assembly	
9	7-51	Frame Non-Sloping	
10	7-59	Pull Arm and Remote Control Box LH	
11	7-57	Endgate Assembly LH	
12	7-54	Slide Plate Assembly	
13	7-54	Slide Plate Assembly	
14	7-56	Extension LH	
15	7-56	Extension RH	

815HD SERIES SCREED 8510 NON-SLOPING OVERVIEW

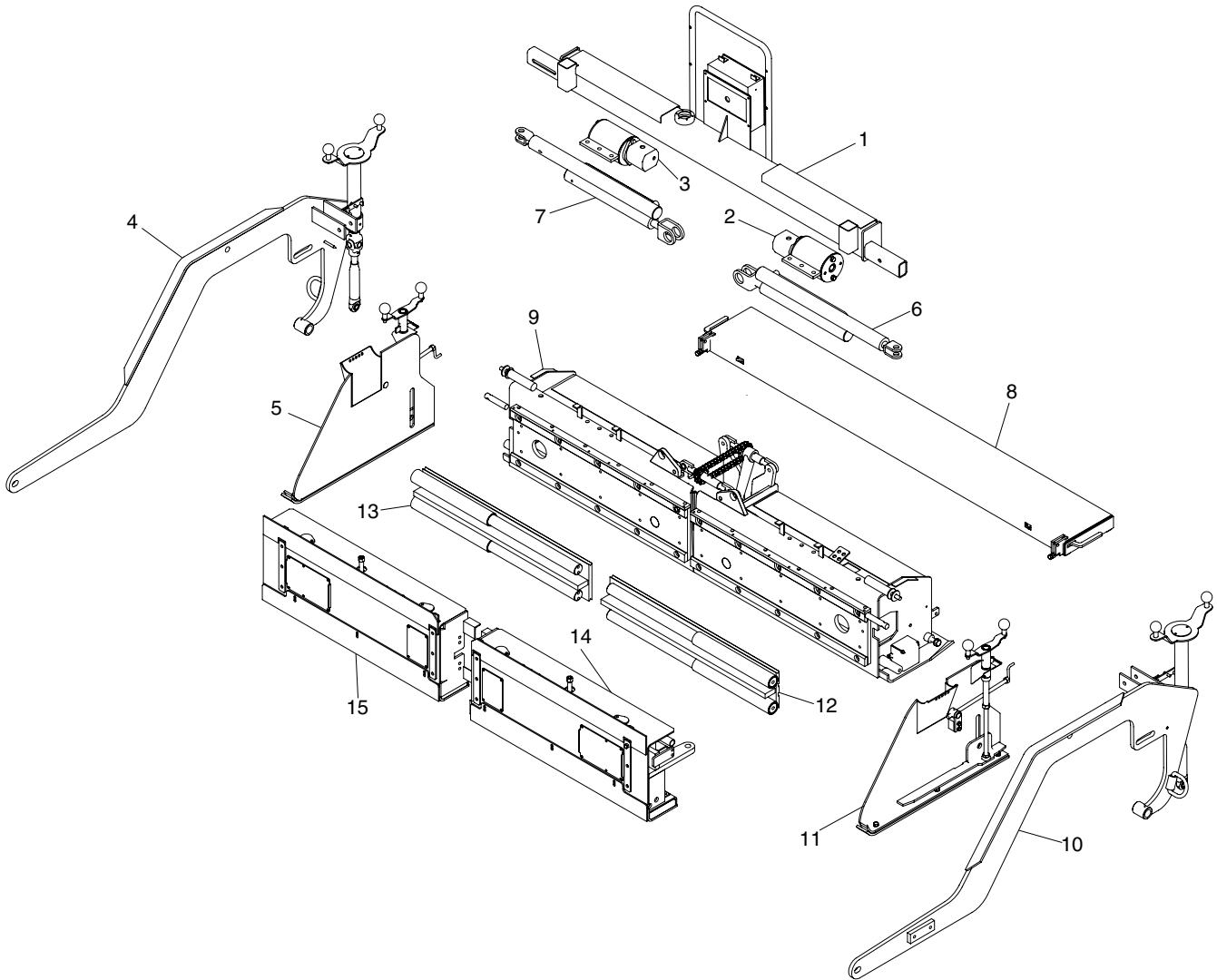


Figure 7-52

815HD Series Screed 8510 Non-sloping Figure List

Item No.	Ref. Figure	Description	Remarks
-	-	Screed, 815HD, 8510 Only	LPN: 1008700, complete assembly
1	7-61	Citrus Tank & Electric Heat Control Box	
2	7-52	Vibrator Assembly LH	
3	7-52	Vibrator Assembly RH	
4	7-60	Pull Arm and Remote Control Box RH	
5	7-58	Endgate Assembly RH	
6	7-51	Miscellaneous Components	
7	7-51	Miscellaneous Components	
8	7-53	Walk Board Assembly	
9	7-51	Frame Non-Sloping	
10	7-59	Pull Arm and Remote Control Box LH	
11	7-57	Endgate Assembly LH	
12	7-54	Slide Plate Assembly	
13	7-54	Slide Plate Assembly	
14	7-55	Extension LH	
15	7-56	Extension RH	

815HD SERIES SCREED 8515 SLOPING OVERVIEW

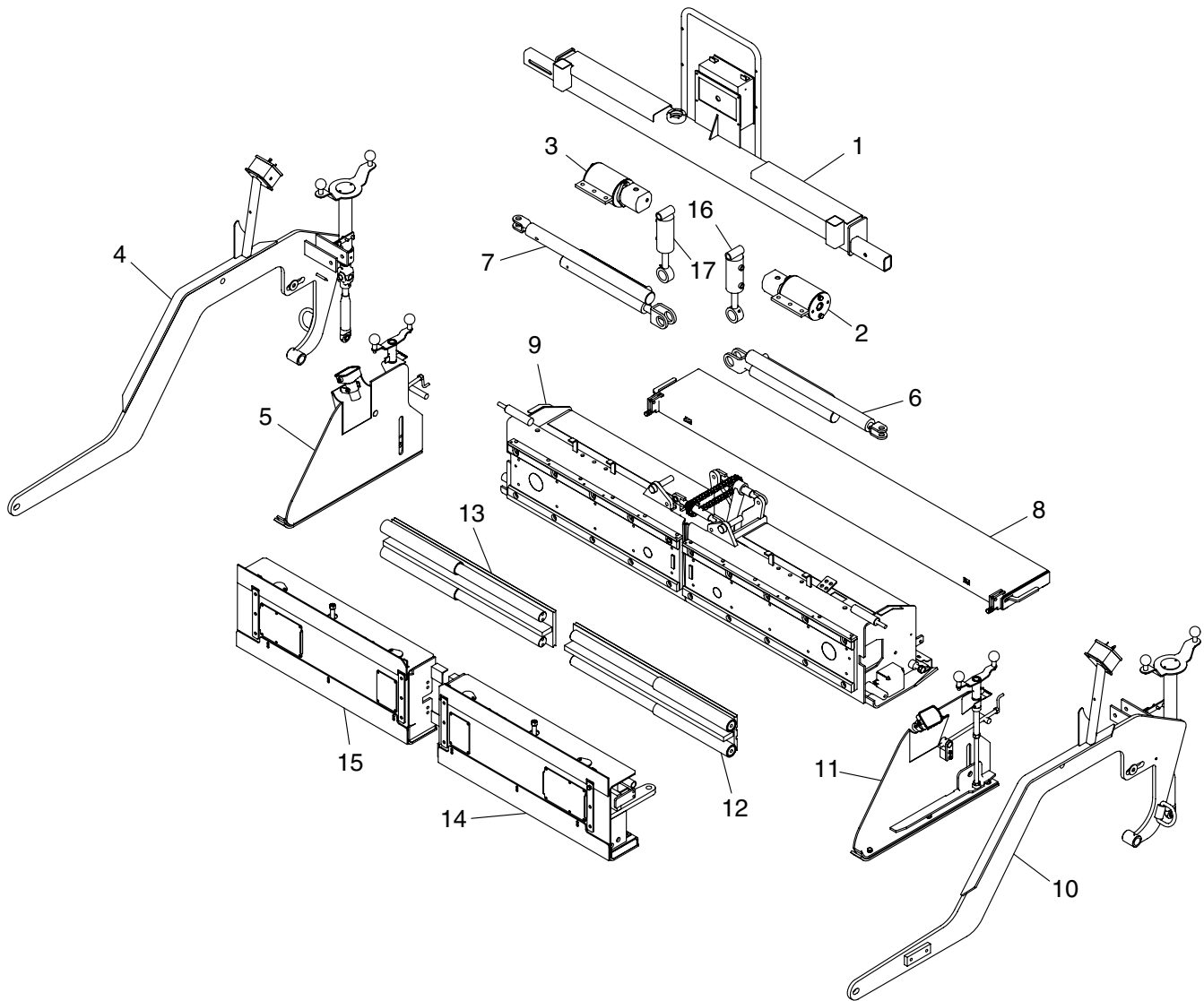


Figure 7-53

815HD Series Screed 8515 Sloping Figure List

Item No.	Ref. Figure	Description	Remarks
-	-	Assy, Screed 815HD	LPN: 1008007, complete assembly
1	7-61	Citrus Tank and Electric Heat Control Box	
2	7-52	Vibrator Assembly LH	
3	7-52	Vibrator Assembly RH	
4	7-60	Pull Arm and Remote Control Box RH	
5	7-58	Endgate Assembly RH	
6	7-50	Miscellaneous Components	
7	7-50	Miscellaneous Components	
8	7-53	Walk Board Assembly	
9	7-50	Frame Sloping	
10	7-59	Pull Arm and Remote Control Box LH	
11	7-57	Endgate Assembly LH	
12	7-54	Slide Plate Assembly	
13	7-54	Slide Plate Assembly	
14	7-55	Extension LH	
15	7-56	Extension RH	
16	7-50	Miscellaneous Components	
17	7-50	Miscellaneous Components	

815HD SERIES SCREED FRAME SLOPING

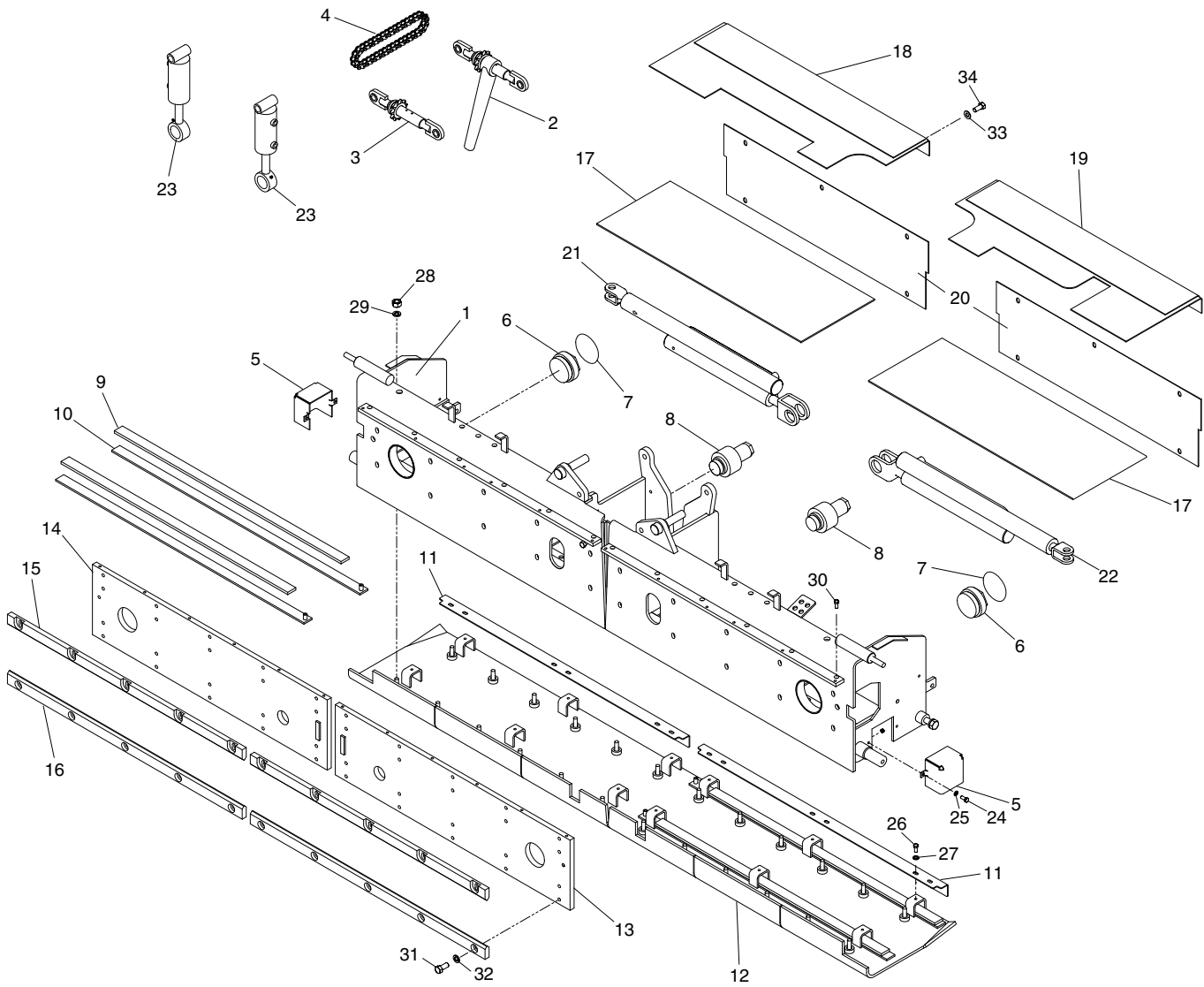


Figure 7-54

815HD Series Screed Frame Sloping Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1007195	1	Group, Screed Frame, 815HD	
2	983157	1	Assy, Turnbuckle W/Ratchet	
3	980182	1	Assy, Crown & Valley, Rear	
4	1008047	1	Chain, Roller, 60H X 39 Pitches	
5	985125	2	Cover, Elements, Screed Base	
6	981659	2	Pin, Slope	
7	981711	2	Plate, Pivot Cover	
8	981661	2	Pin, Cyl Mount	
9	985121	4	Bar, Element Hold Down	
10	1007275SRV	4	Element, Heater, 46", 1000W	
11	1007002	2	Cover, Rear Elements	
12	1007089SRV	1	Wearplate, 3/8" Wear Plate With Studs	Not Include 9, 10, 11, 28, 29
13	1008663	1	Weldment, Rail Mount, LH	
14	1008662	1	Weldment, Rail Mount, RH	
15	1006425	2	Bar, V-Groove Top Rail	
16	1006426	2	Bar, V-Groove Bottom Rail	
17	985149	2	Cover, Screed Elements	
18	1008758	1	Assy, Upper Screed Cover, RH	
19	1008757	1	Assy, Upper Screed Cover, LH	
20	1007000	1	Cover, Screed Lower, LH/RH	
21	981710R	1	Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	
22	981710L	1	Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	
23	983421	1	Cyl, Hyd, 2.75 X 2.00 X 1.125 Rod	
24	102-102-1A	4	Cshh, .312-18 X .50, Gr5	
25	118-2	4	Washer, Lock, .312	
26	102-107-1A	6	Cshh, .312-18 X 1.50, Gr5	
27	118-2	6	Washer, Lock, .312	
28	116-5	24	Nut, Hex, .500-13	
29	118-2	24	Washer, Lock, .312	
30	102-5-18-24-F	12	Cssh, .312-18 X 1.50, Gr5	
31	102-305-1A	20	Cshh, .437-14 X 1.00, Gr5	
32	118-4	20	Washer, Lock, .437	
33	102-409-1A	12	Cshh, .500-13 X 2.00, Gr5	
34	116-5	12	Nut, Hex, .500-13	

815HD SERIES SCREED FRAME NON-SLOPING

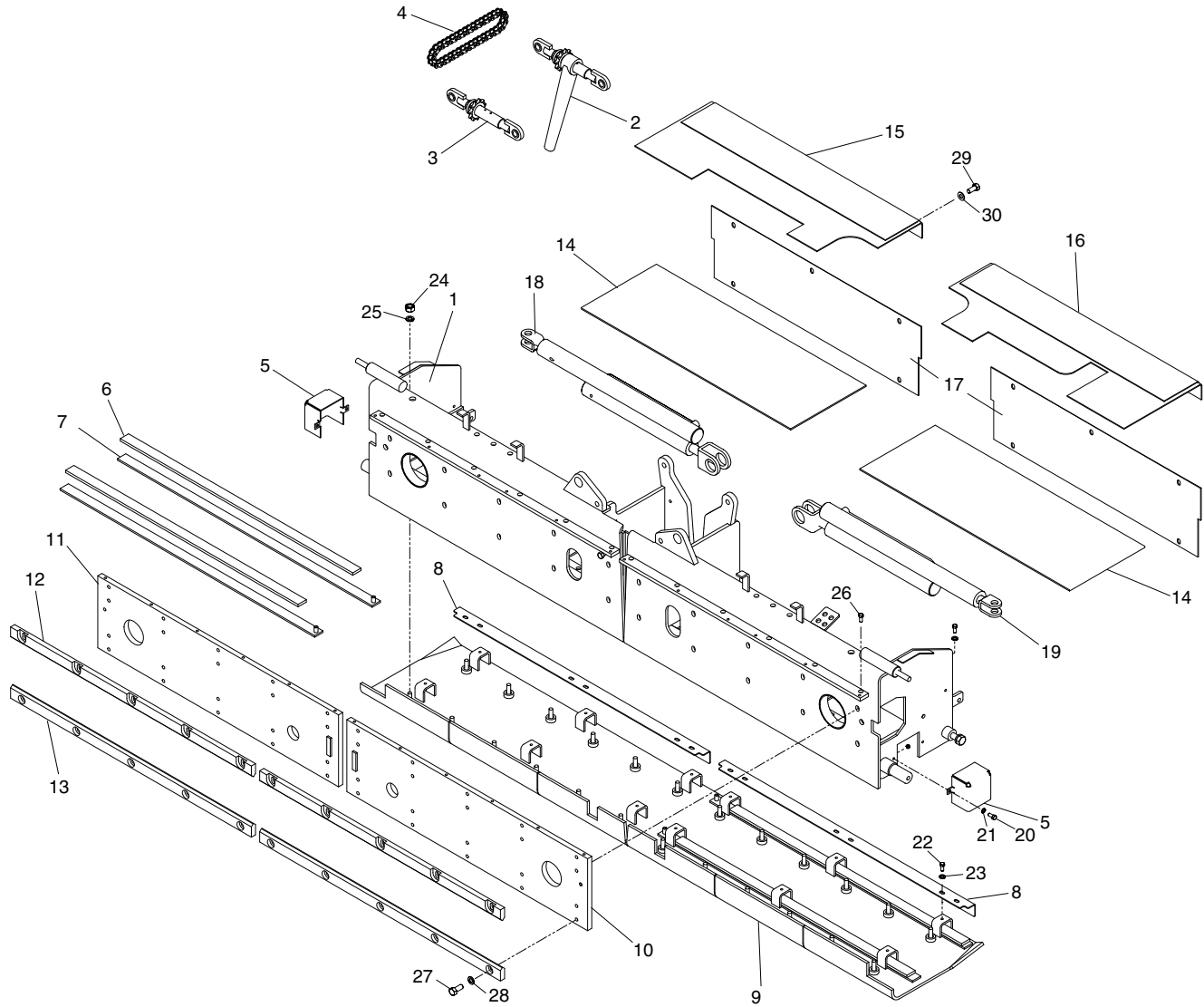


Figure 7-55

815HD Series Screed Frame Non-Sloping Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1007195	1	Group, Screed Frame, 815HD	
2	983157	1	Assy, Turnbuckle W/Ratchet	
3	980182	1	Assy, Crown & Valley, Rear	
4	1008047	1	Chain, Roller, 60H X 39 Pitches	
5	985125	2	Cover, Elements, Screed Base	
6	985121	4	Bar, Element Hold Down	
7	1007275SRV	4	Element, Heater, 46", 1000W	
8	1007002	2	Cover, Rear Elements	
9	1007089SRV	1	Wearplate, 3/8" Wear Plate With Studs	Not Include 9, 10, 11. 24, 25
10	1008663	1	Weldment, Rail Mount, LH	
11	1008662	1	Weldment, Rail Mount, RH	
12	1006425	2	Bar, V-Groove Top Rail	
13	1006426	2	Bar, V-Groove Bottom Rail	
14	985149	2	Cover, Screed Elements	
15	1008758	1	Assy, Upper Screed Cover, RH	
16	1008757	1	Assy, Upper Screed Cover, LH	
17	1007000	1	Cover, Screed Lower, LH/RH	
18	981710R	1	Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	
19	981710L	1	Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	
20	102-102-1A	4	Cshh, .312-18 X .50, Gr5	
21	118-2	4	Washer, Lock, .312	
22	102-107-1A	6	Cshh, .312-18 X 1.50, Gr5	
23	118-2	6	Washer, Lock, .312	
24	116-5	24	Nut, Hex, .500-13	
25	118-2	24	Washer, Lock, .312	
26	102-5-18-24-F	12	Cssh, .312-18 X 1.50, Gr5	
27	102-305-1A	20	Cshh, .437-14 X 1.00, Gr5	
28	118-4	20	Washer, Lock, .437	
29	102-409-1A	12	Cshh, .500-13 X 2.00, Gr5	
30	116-5	12	Nut, Hex, .500-13	

815HD SERIES VIBRATOR ASSEMBLY

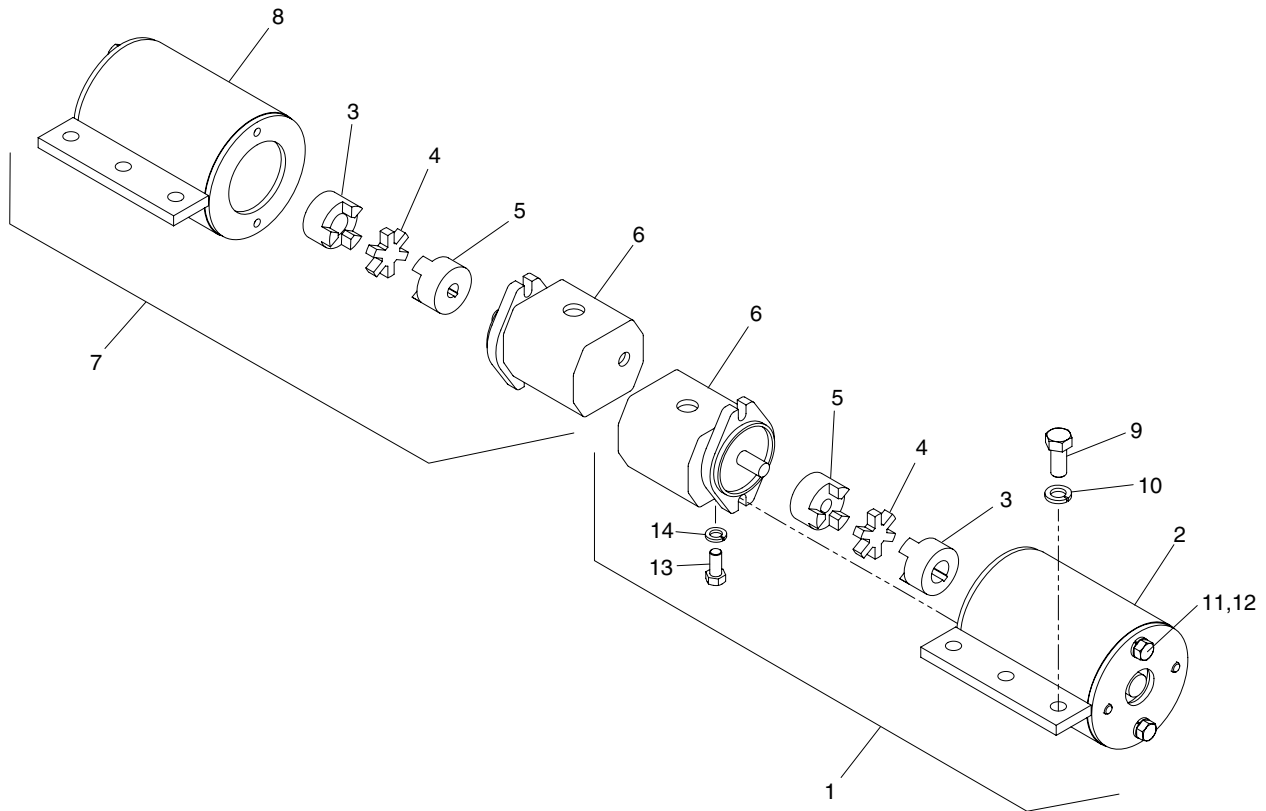


Figure 7-56

815HD Series Vibrator Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965LSRV	1	Assy, Vibrator, LH	
2	982965L-1	1	Housing, Vibrator LH	
3	880030	1	Cplg Half, 3 Jaw, 1"	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Cplg Half, 3 Jaw, 5/8"	
6	983405	1	Motor, Hyd, Gear, 1.17 Cir, "A"	
7	982965RSRV	1	Assy, Vibrator, RH	
8	982965R-1	1	Housing, Vibrator LH	
9	102-605-1A	3	Cshh, .625-11 X 1.00, Gr5	
10	118-7	3	Washer, Lock, .625	
11	102-103-1A	2	Cshh, .312-18 X .75, Gr5	
12	118-2	2	Washer, Lock, .312	
13	102-405-1A	2	Cshh, .500-13 X 1.00, Gr5	
14	118-5	2	Washer, Lock, .500	

815HD SERIES WALK BOARD ASSEMBLY

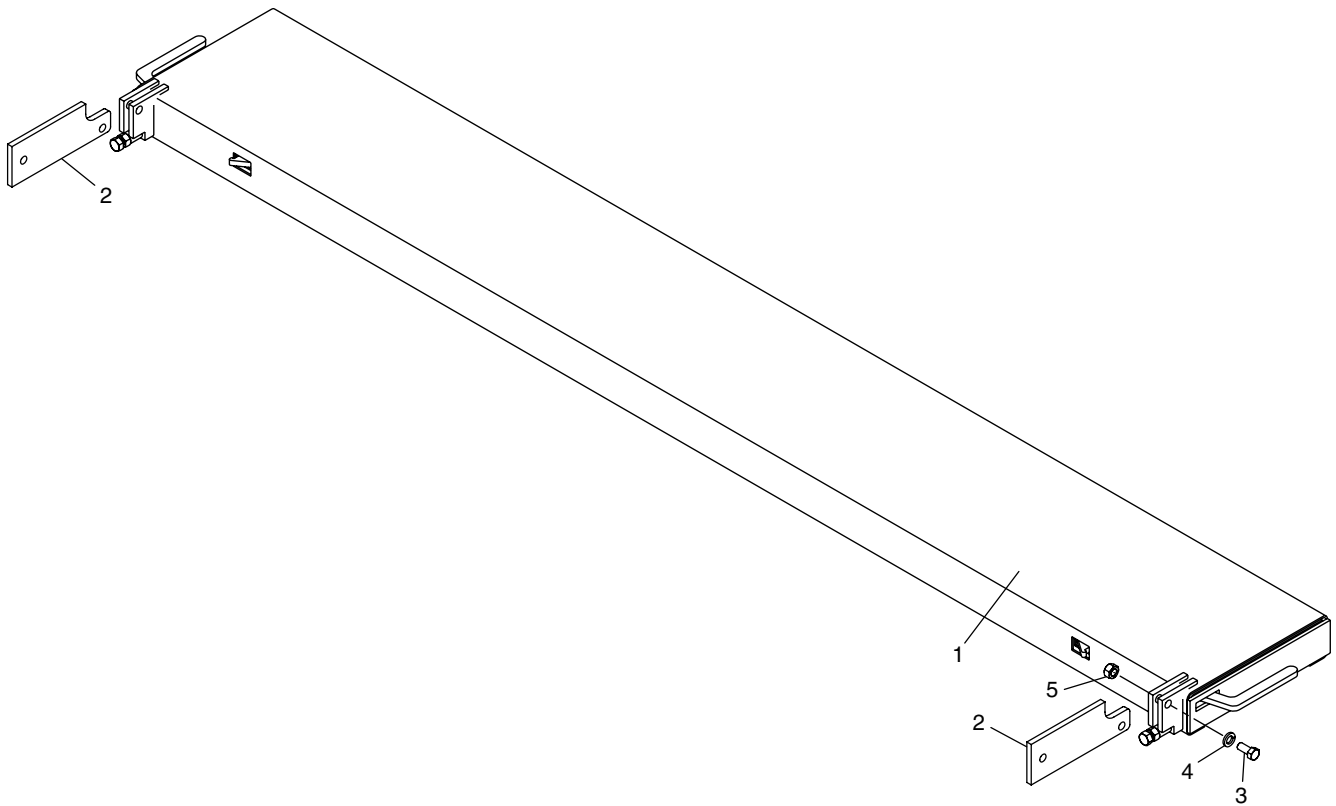


Figure 7-57

815HD Series Walk Board Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	987056SRV	1	Walkboard, Ass'y-Long	
2	985163	2	Plate, Walkboard Hinge	
3	102-406-1A	2	Cshh, .500-13 X 1.25, Gr5	
4	118-5	2	Washer, Lock, .500	
5	116-5	2	Nut, Hex, .500-13	

815HD SERIES SLIDE PLATE ASSEMBLY

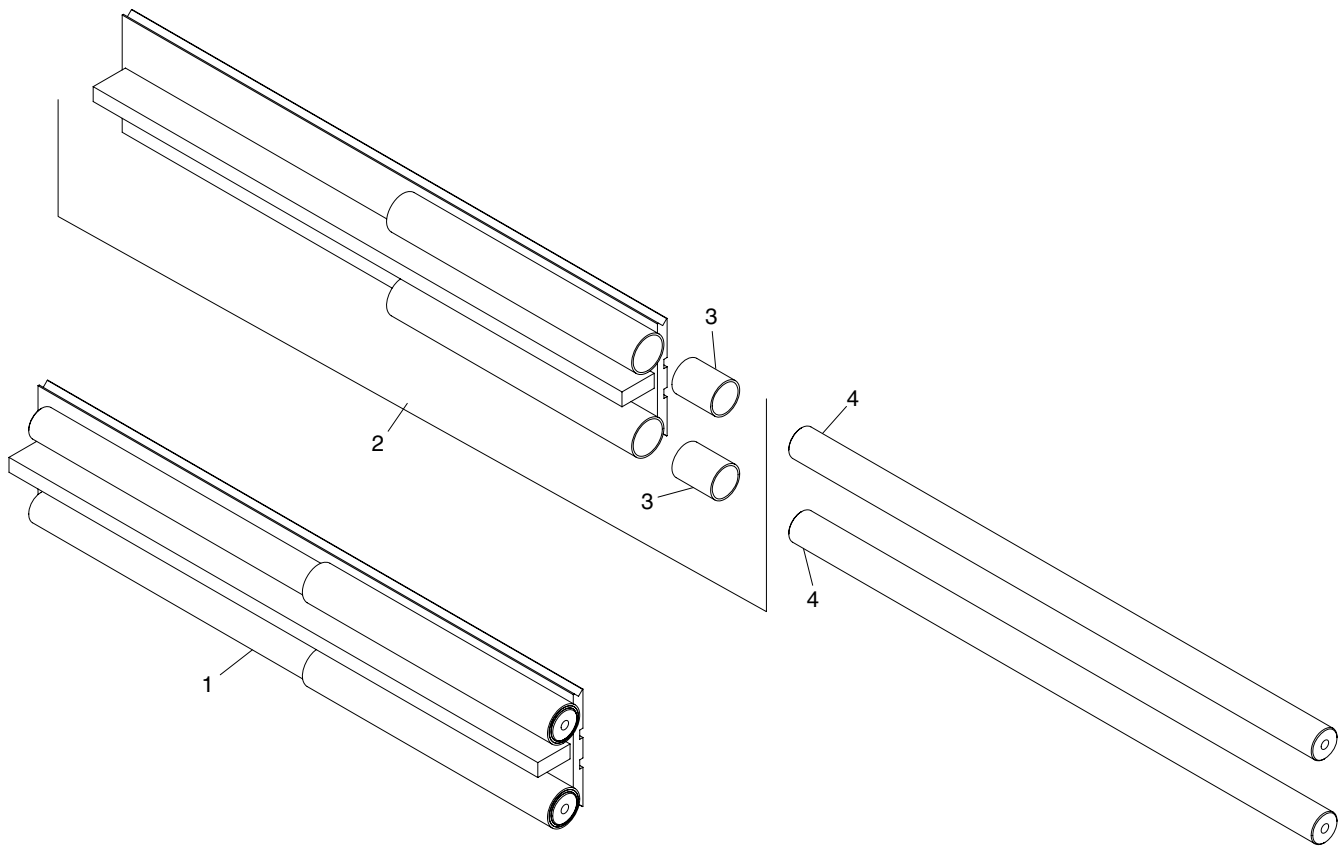


Figure 7-58

815HD Series Slide Plate Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1006416	1	Assy, Slide W/Shfts, HD	
2	1006445	1	Assy, Slide W/O Shafts	
3	1006417	4	Bushing, Fiber, 2.25 OD / 2.00 ID	
4	1006415	2	Shaft, Screed Ext, Chromed, HD	

815HD SERIES EXTENSION LH ASSEMBLY

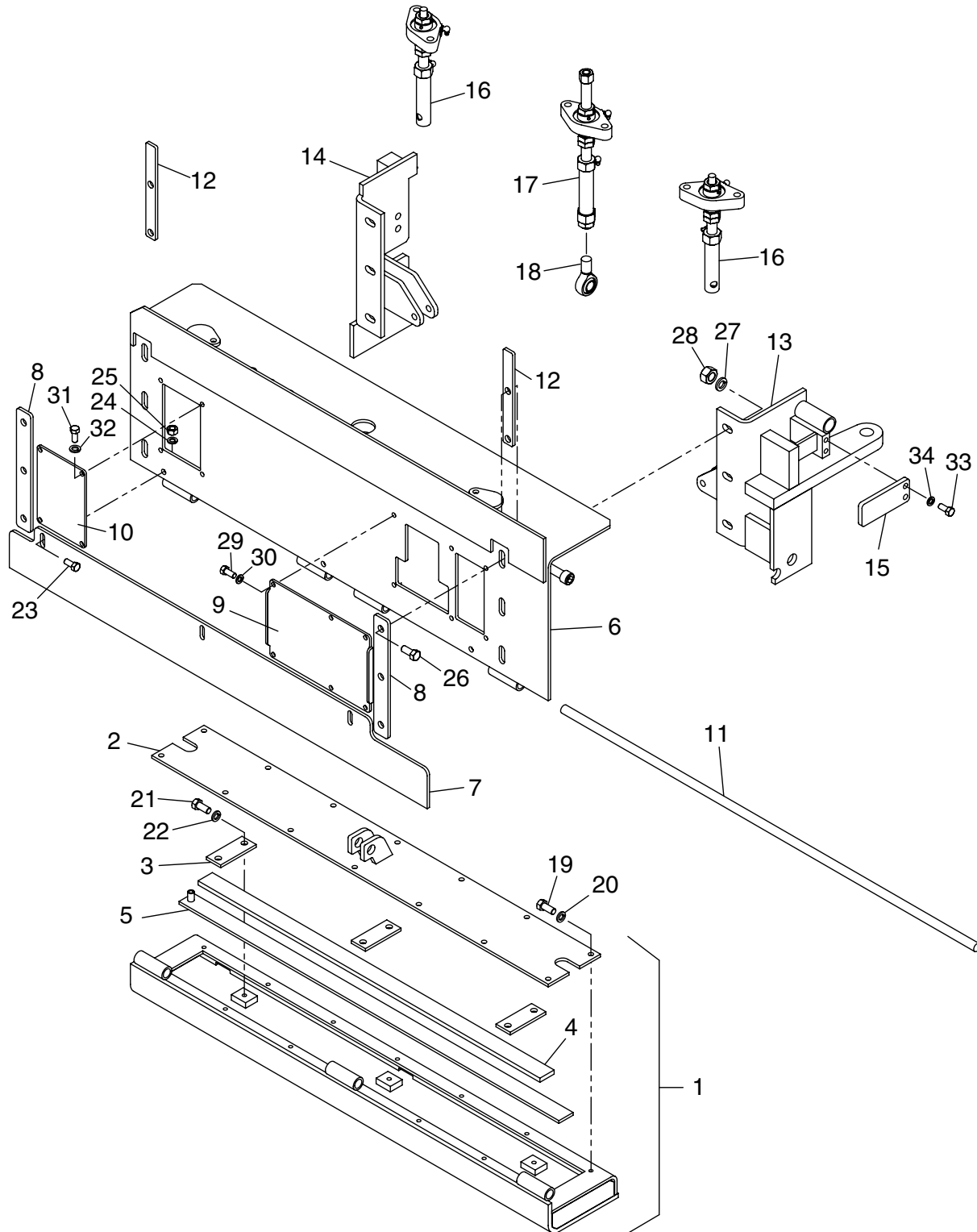


Figure 7-59

815HD Series Extension LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1006380SRV	1	Assy, Ext Heatbox	Not Include 4, 5
2	1008665	1	Weldment, Heatbox Cover	
3	985123	3	Clamp, Element, Screed Ext	
4	985120	1	Bar, .25 X 1.5 X 36	
5	987890SRV	1	Element, Heater, Screed, 41"	
6	1006378SRV	1	Assy, Screed Ext, Lh, Slp	Includes all items
7	1006400	1	Plate, Ext Strikeoff	
8	1006395	2	Bar, Vertical Lift	
9	1008664	1	Weldment, Extension Vibrator Cover	
10	1006398	1	Plate, Ext Access Cover	
11	854447SRV	1	Rnd, .688 X 43.50 CRS	
12	1006397	2	Bar, Vertical Lift Gauge	
13	1007096	1	Assembly, Outer Ext Mount, LH	
14	1007097	1	Assembly, Inner, Ext Mount, LH	
15	1006536	1	Plate, Endgate Brkt W/Holes	
16	1006390	2	Assy, Vertical Lift Adj	
17	1006401	1	Assy, AOA Adjuster	
18	1000947	1	Ball Joint, .750, Male	
19	102-111-1A	14	Cshh, .312-18 X 2.50, Gr5	
20	118-2	14	Washer, Lock, .312	
21	102-205-1A	6	Cshh, .375-16 X 1.00, Gr5	
22	118-3	6	Washer, Lock, .375	
23	102-307-1A	3	Cshh, .437-14 X 1.50, Gr5	
24	118-4	3	Washer, Lock, .437	
25	116-4	3	Nut, Hex, .437-14	
26	102-205-1A	6	Cshh, .375-16 X 1.00, Gr5	
27	118-3	6	Washer, Lock, .375	
28	116-3	6	Nut, Hex, .375-16	
29	102-103-1A	6	Cshh, .312-18 X .75, Gr5	
30	118-2	6	Washer, Lock, .312	
31	102-103-1A	4	Cshh, .312-18 X .75, Gr5	
32	118-2	4	Washer, Lock, .312	
33	102-205-1A	2	Cshh, .375-16 X 1.00, Gr5 X 1 Hex	
34	118-3	2	Washer, Lock, .375	

815HD SERIES EXTENSION RH ASSEMBLY

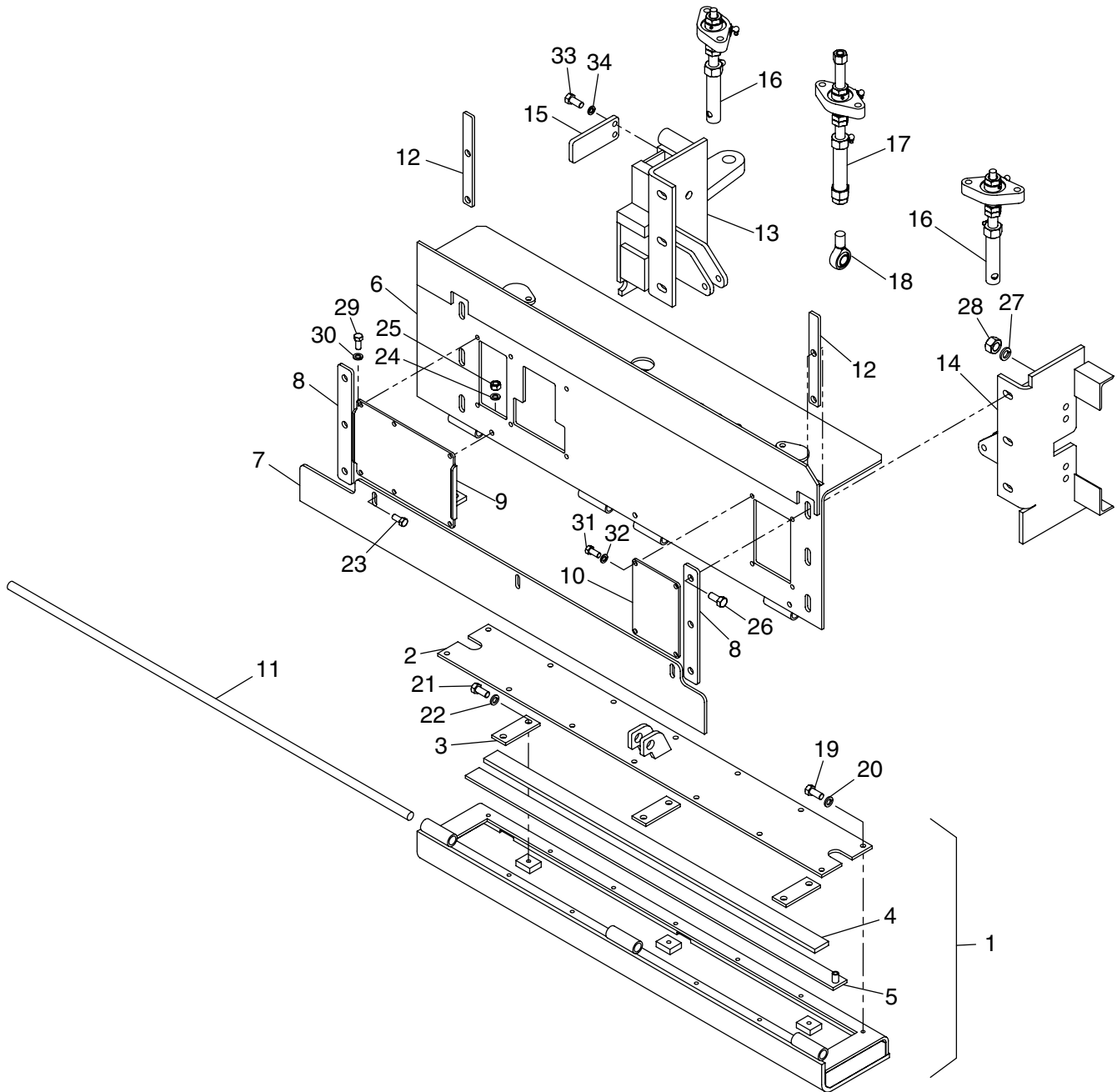


Figure 7-60

815HD Series Extension RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1006380SRV	1	Assy, Ext Heatbox	Not Include 4, 5
2	1008665	1	Weldment, Heatbox Cover	
3	985123	3	Clamp, Element, Screed Ext	
4	985120	1	Bar, .25 X 1.5 X 36	
5	987890SRV	1	Element, Heater, Screed, 41"	
6	1006379SRV	1	Assy, Screed Ext, RH, Slp	Includes all items
7	1006400	1	Plate, Ext Strikeoff	
8	1006395	2	Bar, Vertical Lift	
9	1008664	1	Weldment, Extension Vibrator Cover	
10	1006398	1	Plate, Ext Access Cover	
11	854447SRV	1	Rnd, .688 X 43.50 CRS	
12	1006397	2	Bar, Vertical Lift Gauge	
13	1007098	1	Assembly, Outer Ext Mount, RH	
14	1007099	1	Assembly, Inner Ext Mount, RH	
15	1006536	1	Plate, Endgate Brkt W/Holes	
16	1006390	2	Assy, Vertical Lift Adj	
17	1006401	1	Assy, AOA Adjuster	
18	1000947	1	Ball Joint, .750, Male	
19	102-111-1A	14	Cshh, .312-18 X 2.50, Gr5	
20	118-2	14	Washer, Lock, .312	
21	102-205-1A	6	Cshh, .375-16 X 1.00, Gr5	
22	118-3	6	Washer, Lock, .375	
23	102-307-1A	3	Cshh, .437-14 X 1.50, Gr5	
24	118-4	3	Washer, Lock, .437	
25	116-4	3	Nut, Hex, .437-14	
26	102-205-1A	6	Cshh, .375-16 X 1.00, Gr5	
27	118-3	6	Washer, Lock, .375	
28	116-3	6	Nut, Hex, .375-16	
29	102-103-1A	6	Cshh, .312-18 X .75, Gr5	
30	118-2	6	Washer, Lock, .312	
31	102-103-1A	4	Cshh, .312-18 X .75, Gr5	
32	118-2	4	Washer, Lock, .312	
33	102-205-1A	2	Cshh, .375-16 X 1.00, Gr5	
34	118-3	2	Washer, Lock, .375	

815HD SERIES ENDGATE LH ASSEMBLY

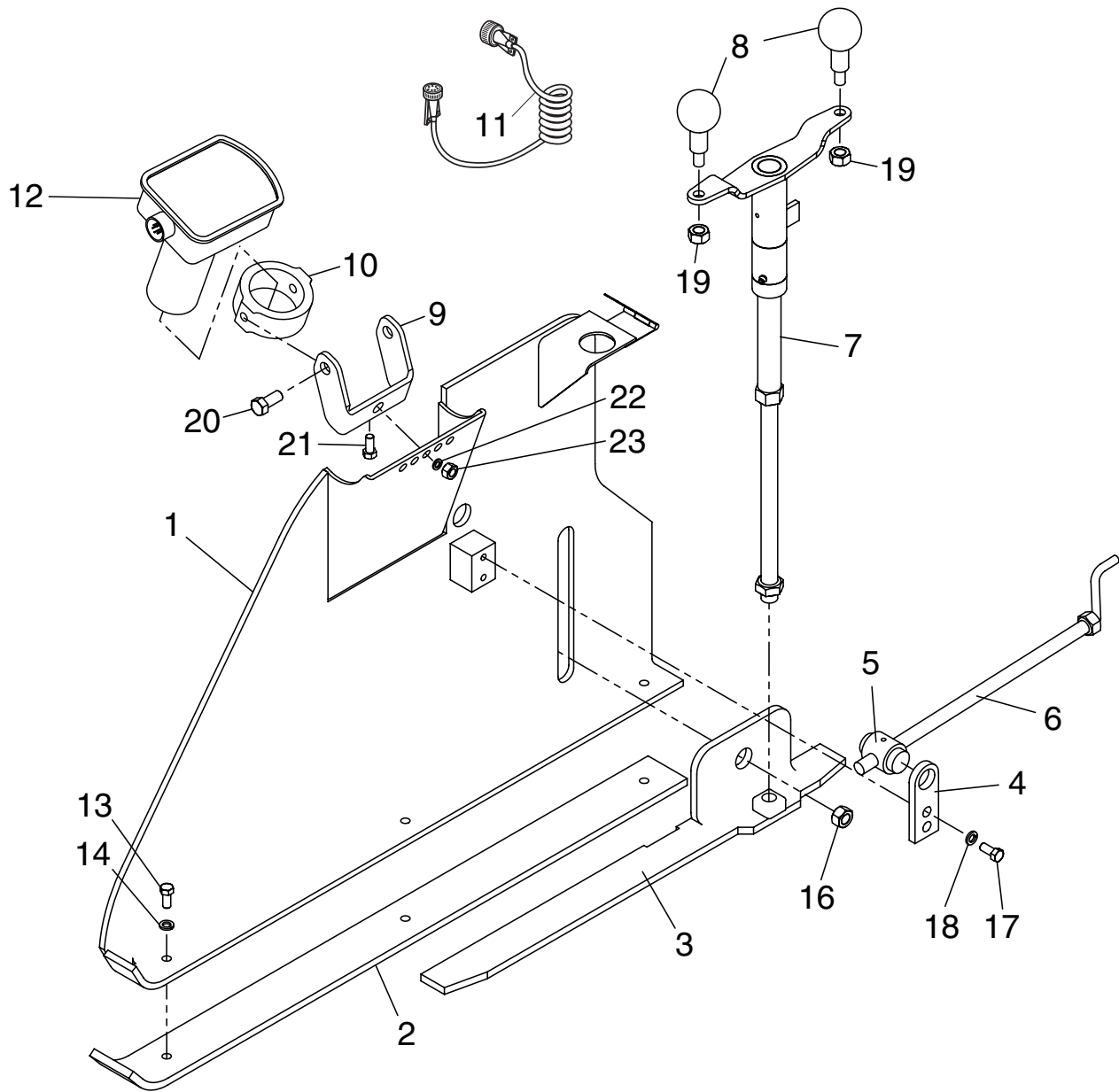


Figure 7-61

815HD Series Endgate LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1006443SRV	1	Assembly, Endgate, LH, HD	Not Include items 9, 10, 11, 12
2	1006442	1	Plate, Endgate	
3	1006571	1	Brkt, LH Depth Screw Bottom Mount	
4	980458	1	Bar, Tilt Screw Hold Down	
5	980457	1	Shaft, Tilt Screw Swivel	
6	890081SRV	1	Tilt Screw, Endgate Assy	
7	1006453	1	Assy, Depth Screw, Endgate	
8	981574	2	Knob, Revolving Ball, M12 X 175	
9	1006451	1	Brkt, Sonic Sensor	
10	1008905	1	Mount, Sonic Sensor	
11	980550	1	Cable, Power, Ultrasonic	
12	980540	1	Sensor, Ultrasonic, Sauer	
13	102-405-1A	3	Cshh, 500-13 X 100, Gr5	
14	118-5	3	Washer, Lock, 500	
16	987396	1	Nut, Lock, 875-20	
17	102-205-1A	2	Cshh, 375-16 X 100, Gr5	
18	118-3	2	Washer, Lock, 375	
19	116-5-A	2	Nut, Hex, 500-13	
20	102-102-1A	2	Cshh, 312-18 X 50, Gr5	
21	102-303-1A	1	Cshh, 437-14 X 75, Gr5	
22	118-4	1	Washer, Lock, 437	
23	116-4	1	Nut, Hex, 437-14	
23	116-4	1	Nut, Hex, .437-14	

815HD SERIES ENDGATE RH ASSEMBLY

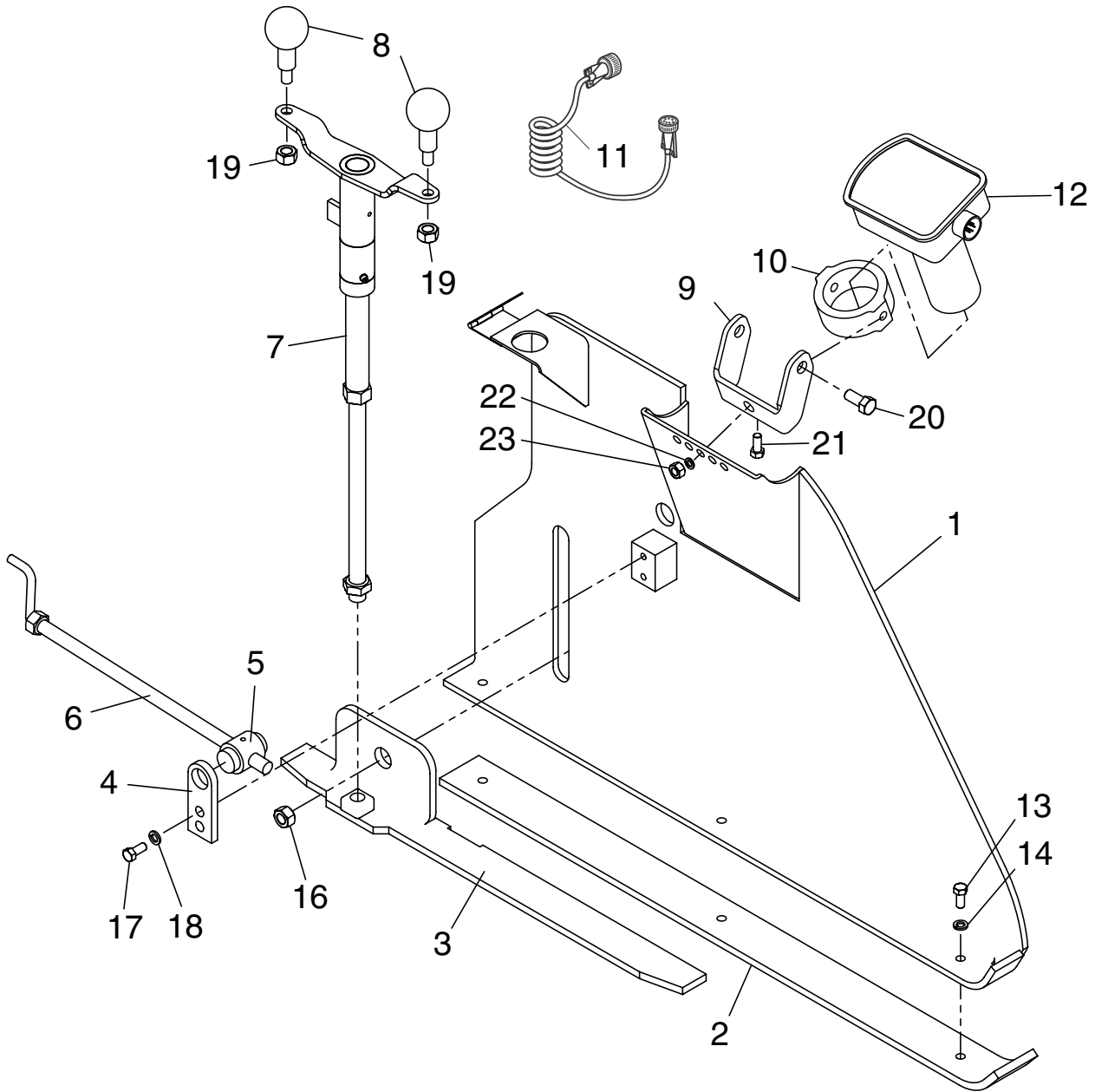


Figure 7-62

815HD Series Endgate RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1006560SRV	1	Assembly, Endgate, RH, HD	Not Includes items 9, 10, 11, 12
2	1006442	1	Plate, Endgate	
3	1006452	1	Brkt, RH Depth Screw Bottom Mount	
4	980458	1	Bar, Tilt Screw Hold Down	
5	980457	1	Shaft, Tilt Screw Swivel	
6	890081SRV	1	Tilt Screw, Endgate Assy	
7	1006453	1	Assy, Depth Screw, Endgate	
8	981574	2	Knob, Revolving Ball, M12 X 175	
9	1006451	1	Brkt, Sonic Sensor	
10	1008905	1	Mount, Sonic Sensor	
11	980550	1	Cable, Power, Ultrasonic 5	
12	980540	1	Sensor, Ultrasonic, Sauer	
12	102-405-1A	3	Cshh, 500-13 X 100, Gr5	
14	118-5	3	Washer, Lock, 500	
16	987396	1	Nut, Lock, 875-20	
17	102-205-1A	2	Cshh, 375-16 X 100, Gr5	
18	118-3	2	Washer, Lock, 375	
19	116-5-A	2	Nut, Hex, 500-13	
20	102-102-1A	2	Cshh, 312-18 X 50, Gr5	
21	102-303-1A	1	Cshh, 437-14 X 75, Gr5	
22	118-4	1	Washer, Lock, 437	
23	116-4	1	Nut, Hex, 437-14	
23	116-4	1	Nut, Hex, .437-14	

815HD SERIES SCREED PULL ARMS LH ASSEMBLY

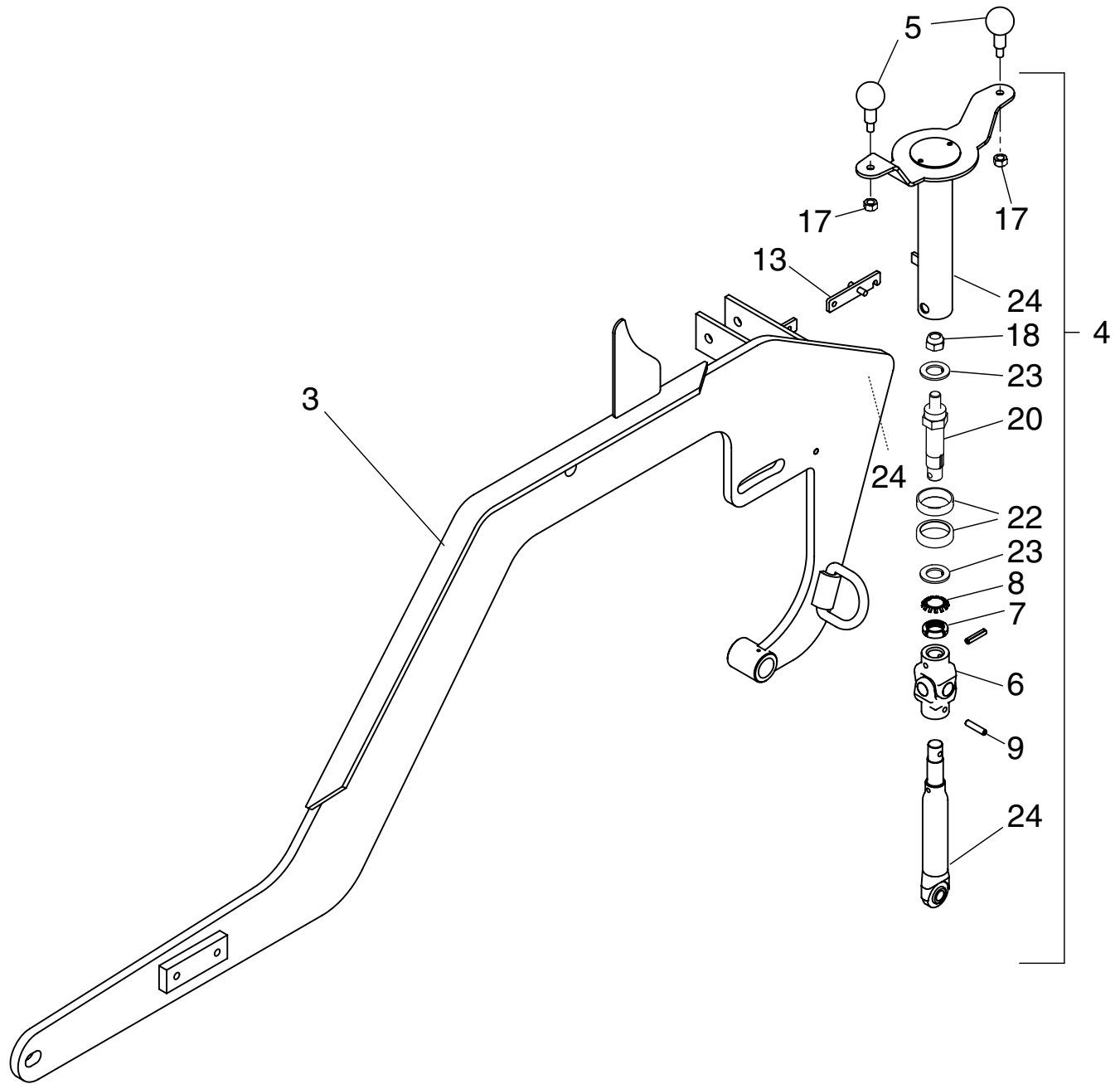


Figure 7-63

815HD Series Screed Pull Arms LH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
3	1008703	1	Assy, Screed Arm, LH, 8510 Only	
4	1011374	1	Assembly, Thickness	
5	981574	2	Knob, Revolving Ball, M12 X 1.75	
6	21426507	1	Universal Joint	
7	95200879	1	Locknut	
8	95200978	1	Lockwasher	
9	20160644	2	Pin, Spirol, 3/8 Dia X 1-3/4	
13	851375SRV	1	Lock Arm, Flight Screw	
17	116-3	2	Nut, Hex, .375-16	
18	95998936	1	Lock Nut Ptorq 3/4-16	
20	1011307	1	Shaft, Thickness Adjuster	
22	810110	2	Bearing, Push Roller, 1.250	
23	20931333	2	Tongued Washer 121ID X 186OD	
24	1011375	1	Weldment, Thickness Adjuster Handle	
25	1011373	1	Assembly, Lower Thickness	

815HD Series Screed Pull Arms RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984534R	1	Enclosure, Elec 3 Sw, Lwr Cont	
2	1006438	1	Assy, Screed Arm, RH, Slp	Not Include 3
4	1006427	1	Flight Screw Assembly	
5	981574	2	Knob, Revolving Ball, M12 X 1.75	
6	21426507	1	Universal Joint	
7	95200879	1	Locknut	
8	95200978	1	Lockwasher	
9	20160644	2	Pin, Spirol, 3/8 Dia X 1-3/4	
10	900030	1	Switch, Toggle, Auto Conveyor	
11	900030	1	Switch, Toggle, Auto Conveyor	
12	851393	1	Switch, Toggle, Conveyor Lift	
13	851375SRV	1	Lock Arm, Flight Screw	
14	102-202-1A	4	Cshh, .375-16 X .50, Gr5	
15	118-3	4	Washer, Lock, .375	
16	116-3	4	Nut, Hex, .375-16	
17	116-3	2	Nut, Hex, .375-16	
18	95998936	1	Lock Nut Ptorq 3/4-16	
19	1007231	1	Socket, 3/4" Drive, 1 1/2"	
20	1008809	1	Shaft, Screed Flight Screw	
21	20930244	2	Bearing Cone	
22	20930566	2	Bearing Cup	
23	20931333	1	Tongued Washer 121ID X 186OD	
24	1006436	2	Adjuster, Bearing Housing	

815HD Series Screed Citrus Tank and Heat Control Box Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1008862	1	Assy, Screed, Citrus, Tank Elec	Includes Item No. 11
2	985138	1	Assy ,Electric Heat Control	
3	31983	1	Light, Red, Dash, .50 Hole	
4	982249	1	Switch, Push Button	
5	851391	1	Switch, Toggle, Spst, 2-Pos	
6	985142	1	Timer, Elec	
7	988231	1	Relay, Time Delay, Off,10 Amp	
8	985140	12	Breaker, 15 Amp	
9	985141	4	Relay, 12VDC, DPST, 25 Amp, N/O	
10	985138-04	1	Block, Teriminal	
11	140030FL	1	Cap, Fuel Tank, Lockable	
12	102-615-1A	2	Cshh, .625-11 X 3.50, Gr5	
13	118-7	2	Washer, Lock, .625	
14	116-7	2	Nut, Hex, .625-11	
15	102-102-1A	4	Cshh, .312-18 X .50, Gr5	
16	118-2	4	Washer, Lock, .312	
17	116-2	4	Nut, Hex, .312-18	
-	10030GK	1	Strainer & Gasket Kit	

815HD SERIES SCREED OPTIONAL COMPONENTS

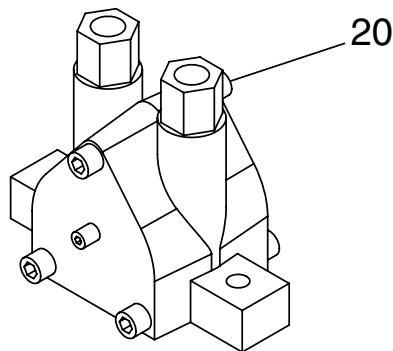
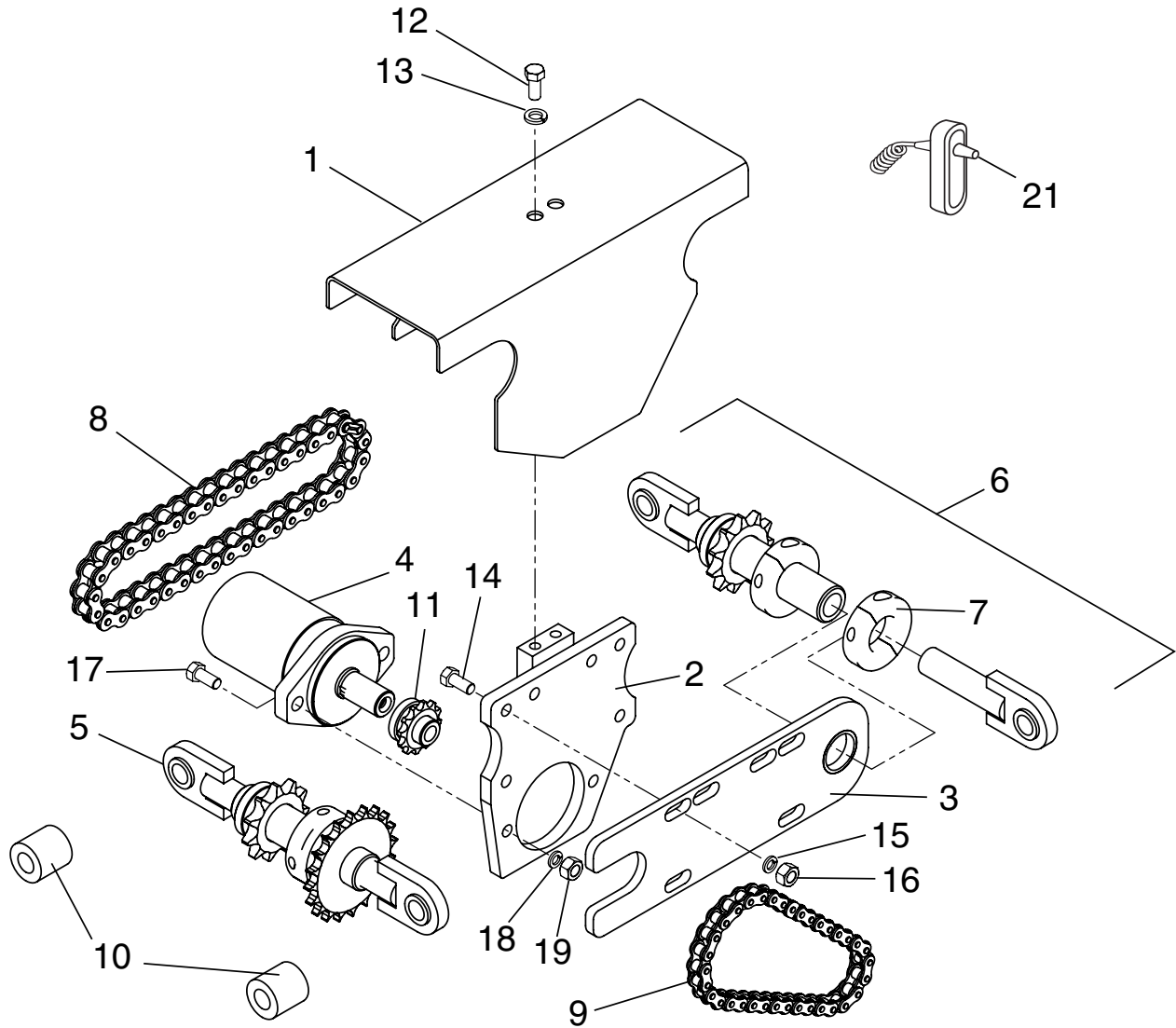


Figure 7-66

815HD Series Screed Optional Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1008168	1	Cover, Power Crown	
2	1008667	1	Weldment, Power Crown Center	
3	1008600	1	Plate, Power Crown Adjuster	Not include bushing
-	1000960	1	Bushing, Composite, Power Crown	
4	986640	1	Motor, Hyd, Danfoss	
5	1008668	1	Assembly, Crown And Valley Front	
6	980182	1	Assy, Crown & Valley, Rear	Not include item # 7
7	1000798	2	Collar, Power Crown Locking	
8	1008047	1	Chain, Roller, 60H X 39 Pitches	
9	1000958	1	Chain, Roller, 50 X 18 r	
10	1006419	2	Spacer, Crown Mnt	
11	1000799	1	Sprocket, #50 Roller Chain	
12	102-205-1A	2	Cshh, .375-16 X 1.00, Gr5	
13	118-3	2	Washer, Lock, .375	
14	102-405-1A	6	Cshh, .500-13 X 1.00, Gr5	
15	118-5	6	Washer, Lock, .500	
16	116-5	6	Nut, Hex, .500-13	
17	102-406-1A	2	Cshh, .500-13 X 1.25, Gr5	
18	118-5	2	Washer, Lock, .500	
19	116-5	2	Nut, Hex, .500-13	
-	920238-3	A/R	Cover, 3/4" Condulet	
-	920238-2	A/R	Condulet, 3/4" Aluminum	
-	920238-4	A/R	Gasket, Condulet Box, 3/4"	
-	920238-5	A/R	Aluminum Plug, 3/4" Coondulet	
-	3400DI	A/R	Water Tight Conn, 3/4" X 3/4"	
20	1000059	2	Vibrator, Hydraulic	
21	72884	A/R	Switch, Toggle, Spst, 2-Pos, Mom	

ALPHABETICAL PARTS INDEX

Description	Part Number	Figure #	Item #
12" Auger Ext LH	985795	7-5	—
12" Auger Ext RH	985796	7-5	—
Adapter, Hose to Pipe (90 deg)	230069	7-15	12
Adapter, Hyd. Hose	2404-10-8	7-1	32
Adapter, P.O.L.	230030	7-15	2
Adaptor .563-18 Unf-2B LH X 4 Jic Male	1009358	7-15	24
Adjuster Mount	1002715	7-31	8
Adjuster Mount	1002715	7-32	8
Adjuster Mount	1002715	7-41	8
Adjuster Mount	1002715	7-42	8
Adjuster, Bearing Housing	1006436	7-62	24
Adjuster, Bearing Housing	1006436	7-63	24
Alternator, 8515 Tier 4i	1009253-21	7-9	9
Alum. Cable Sleeve .0625	981981	7-16	8
Aluminum Plug, 3/4" Coondulet	920238-5	7-65	-
AM Module and Cable Assy, w/Base Plate	985866	7-16	18
AM Module Only	985866-01	7-16	—
AM Module Only	985866-01	7-17	10
Arm Extension, LH	930025SRV	7-18	3
Arm Extension, RH	930020SRV	7-18	2
Arm, Assy, Truck Hitch Wheel Pivot	930030SRV	7-18	4
Arm, Auto. Conveyor Switch	900060	7-3	37
Arm, Skid Support (Front)	851248SRV	7-16	12
Arm, Skid Support (Rear)	851247SRV	7-16	11
Ass'y, Cable Remote	984596	7-16	30
Assembly, Air Breather, Tier 4i	1010255	7-9	43
Assembly, Crown And Valley Front	1008668	7-65	5
Assembly, Endgate, LH, HD	1006443SRV	7-60	1
Assembly, Endgate, RH, HD	1006560SRV	7-61	1
Assembly, Inner Ext Mount, RH	1007099	7-59	14
Assembly, Inner, Ext Mount, LH	1007097	7-58	14
Assembly, Outer Ext Mount, LH	1007096	7-58	13
Assembly, Outer Ext Mount, RH	1007098	7-59	13
Assembly, Tier 4i Gauge Panel	1009253-05	7-23	7

Description	Part Number	Figure #	Item #
Assembly,Cummins Engine With Pumps,Tier 4	1010671	7-10	1
Assy ,Electric Heat Control	985138	7-64	2
Assy CB Bracket	983414-09	7-17	20
Assy In Front Of Under Carriage, LH	980607L	7-2	1
Assy In Front Of Under Carriage, RH	980607R	7-2	2
Assy Temp. Bail w/Sleeves	983414-10	7-17	1
Assy, 20 Ft. Kit	851584SRV	7-16	—
Assy, 30 Ft. to 40 Ft. Kit	851585SRV	7-16	—
Assy, Adjusting Swivel Nut	890070	7-43	11
Assy, Adjusting Swivel Nut	890070	7-44	11
Assy, AOA Adjuster	1006401	7-58	17
Assy, AOA Adjuster	1006401	7-59	17
Assy, Auger Motor Cover, 8515	981685	7-5	1
Assy, Axle, Guide Wheel	930045SRV	7-18	8
Assy, Beacon Light Post	989469	7-19	23
Assy, Cord Remote (TOPCON)	984596	7-16	—
Assy, Cord Remote (TOPCON)	984596	7-17	8
Assy, Crown & Valley, Rear	980182	7-53	3
Assy, Crown & Valley, Rear	980182	7-65	6
Assy, Crown & Valley, Rear	980182	7-54	3
Assy, Crown Adjustment	986637SRV	7-24	2
Assy, Depth Screw, Endgate	1006453	7-60	7
Assy, Depth Screw, Endgate	1006453	7-61	7
Assy, Electric Heat Control	985138	7-47	2
Assy, Ext Heatbox	1006380SRV	7-58	1
Assy, Ext Heatbox	1006380SRV	7-59	1
Assy, Heat Box Cover, 4 Adj	988292	7-31	14
Assy, Heat Box Cover, 4 Adj	988292	7-32	14
Assy, Heat Box Cover, 4 Adj	988292	7-41	14
Assy, Heat Box Cover, 4 Adj	988292	7-42	14
Assy, Heat Box Cover, Single Adj	988291	7-29	12
Assy, Heat Box Cover, Single Adj	988291	7-30	12
Assy, Heat Box Cover, Single Adj	988291	7-39	12
Assy, Heat Box Cover, Single Adj	988291	7-40	12
Assy, Heat Box, Elec, 4 Adjust	988319SRV	7-41	2
Assy, Heat Box, Elec, 4 Adjust	988319SRV	7-42	2

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Assy, Heat Box, Elec, Single Adj	987872SRV	7-39	2
Assy, Heat Box, Elec, Single Adj	987872SRV	7-40	2
Assy, Heat Box, Propane, 4 Adjust	988318SRV	7-31	2
Assy, Heat Box, Propane, 4 Adjust	988318SRV	7-32	2
Assy, Heat Box, Propane, Single Adj	851182SRV	7-29	2
Assy, Heat Box, Propane, Single Adj	851182SRV	7-30	2
Assy, Insert, Elec, LH	984305-1	7-41	1a
Assy, Insert, Elec, RH, 4	984306-1	7-42	1a
Assy, Insert, Electric, 8500, LH	985561SRV	7-39	1
Assy, Insert, Electric, 8500, RH	985562SRV	7-40	1
Assy, Insert, Propane, 8500, LH	859394SRV	7-29	1
Assy, Insert, Propane, 8500, RH	859395SRV	7-30	1
Assy, Insert, Propane, LH	983409-1SRV	7-31	1a
Assy, Insert, Propane, RH, 4	983410-1SRV	7-32	1a
Assy, Insert, Slope, Elec, LH	984305	7-41	1
Assy, Insert, Slope, Elec, RH	984306SRV	7-42	1
Assy, Insert, Slope, Prop, LH	983410SRV	7-31	1
Assy, Insert, Slope, Prop, RH	983409SRV	7-32	1
Assy, Screed Arm, 8515, LH	984897SRV	7-14	—
Assy, Screed Arm, 8515, LH	984897SRV	7-45	4
Assy, Screed Arm, 8515, RH	984896SRV	7-14	2
Assy, Screed Arm, 8515, RH	984896SRV	7-46	4
Assy, Screed Arm, LH, Slp	1006437	7-62	2
Assy, Screed Arm, RH, Slp	1006438	7-63	2
Assy, Screed Ext, Lh, Slp	1006378SRV	7-58	6
Assy, Screed Ext, RH, Slp	1006379SRV	7-59	6
Assy, Screed, Citrus, Tank Elec	1008862	7-64	1
Assy, Screed, Citrus, Tank, Elec	1008862	7-47	1
Assy, Screed, Citrus, Tank, Propane	985777SRV	7-47	1a
Assy, Side Wing, LH 8515	980702	7-4	2
Assy, Side Wing, RH 8515	980703	7-4	1
Assy, Slide Adjust	985556	7-31	4
Assy, Slide Adjust	985556	7-32	4
Assy, Slide Adjust	985556	7-41	4
Assy, Slide Adjust	985556	7-42	4
Assy, Slide W/O Shafts	1006445	7-57	2

Description	Part Number	Figure #	Item #
Assy, Slide W/Shfts, HD	1006416	7-57	1
Assy, Spacer Auger Shaft	982945	7-5	11
Assy, Tank Fuel, 8515B	1009361	7-7	7
Assy, Tank Hydraulic, 8515B	1003410SRV	7-7	5
Assy, Turnbuckle W/Ratchet	983157	7-53	2
Assy, Turnbuckle W/Ratchet	983157	7-54	2
Assy, Upper Screed Cover, LH	1008757	7-53	19
Assy, Upper Screed Cover, LH	1008757	7-54	16
Assy, Upper Screed Cover, RH	1008758	7-53	18
Assy, Upper Screed Cover, RH	1008758	7-54	15
Assy, Vertical Lift Adj	1006390	7-58	16
Assy, Vertical Lift Adj	1006390	7-59	16
Assy, Vibrator LH	982965L	7-35	1
Assy, Vibrator RH	982965RSRV	7-36	1
Assy, Vibrator, LH	982965LSRV	7-55	1
Assy, Vibrator, RH	982965RSRV	7-55	7
Assy, Walk Board	987056	7-37	1
Auger Assy Complete, LH, 8515	981692L	7-5	19
Auger Assy Complete, RH, 8515	981692R	7-5	20
Auger End Mount, LH 8000/8500	860051HDLSRV	7-5	9
Auger End Mount, RH 8000/8500	860051HDRSRV	7-5	8
Auger Flight, LH, 12", 8515	981700L	7-5	16
Auger Flight, RH, 12", 8515	981700R	7-5	15
Auger Shaft w/Sprocket, Spacer & Bearing	981691	7-5	10
Ball Joint, .750, Male	1000947	7-58	18
Ball Joint, .750, Male	1000947	7-59	18
Bar Jack, Screed Slide	988556	7-27	12
Bar Jack, Screed Slide	988556	7-33	12
Bar, .125 x 2.00 x 44.50, Notches	855562	7-27	13
Bar, .125 x 2.00 x 44.50, Notches	855562	7-33	13
Bar, .25 X 1.5 X 36	985120	7-58	4
Bar, .25 X 1.5 X 36	985120	7-59	4
Bar, .250 X 1.00 X 3.00, Hole	853654	7-19	21
Bar, .250 x 1.50 x 36	985120	7-39	10
Bar, .250 x 1.50 x 36	985120	7-40	10
Bar, .250 x 1.50 x 36	985120	7-41	12

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Bar, .250 x 1.50 x 36	985120	7-42	12
Bar, .250 x 2.00 x 7.00	853593SRV	7-6	29
Bar, .375 x 1.50 x 42	985121	7-33	8
Bar, .375 x 1.50 x 42	985121	7-34	11
Bar, .375 x 6.25 x 7.00	853598	7-4	29
Bar, 125 x 1.50 x 9.50	853595	7-4	30
Bar, Adjustable Slide	851242SRV	7-16	2
Bar, Bottom Rail	981658	7-28	16
Bar, Bottom Rail	981658	7-34	16
Bar, Conveyor Flight Bar (Quick Change)	851118A	7-3	18
Bar, Element Hold Down	985121	7-53	9
Bar, Element Hold Down	985121	7-54	6
Bar, End Gate Skid 8515	982963	7-43	7
Bar, Guide (Outer)	920041SRV	7-4	23
Bar, Pivot	981659	7-28	8
Bar, Pivot	981659	7-34	8
Bar, Tilt Screw Hold Down	980458	7-60	4
Bar, Tilt Screw Hold Down	980458	7-61	4
Bar, Top Rail	981657	7-28	17
Bar, Top Rail	981657	7-34	17
Bar, Vertical Lift	1006395	7-58	8
Bar, Vertical Lift	1006395	7-59	8
Bar, Vertical Lift Gauge	1006397	7-58	12
Bar, Vertical Lift Gauge	1006397	7-59	12
Bar, V-Groove Bottom Rail	1006426	7-53	16
Bar, V-Groove Bottom Rail	1006426	7-54	13
Bar, V-Groove Top Rail	1006425	7-53	15
Bar, V-Groove Top Rail	1006425	7-54	12
Battery	Ref.	7-19	—
Bearing	986657	7-24	7
Bearing Cone	20930244	7-62	21
Bearing Cone	20930244	7-63	21
Bearing Cup	20930566	7-62	22
Bearing Cup	20930566	7-63	22
Bearing, Auger, Axle, Idler	850130	7-1	34
Bearing, Auger, Axle, Idler	850130	7-3	7

Description	Part Number	Figure #	Item #
Bearing, Auger, Axle, Idler	850130	7-5	12
Bearing, Conveyor Pulley/Vibrator Shaft	250150	7-35	7
Bearing, Conveyor Pulley/Vibrator Shaft	250150	7-36	7
Bearing, Push Roller (1.25)	810110	7-18	13
Bearing, Screed Flight Screw	870030	7-29	5
Bearing, Screed Flight Screw	870030	7-30	5
Bearing, Screed Flight Screw	870030	7-31	5
Bearing, Screed Flight Screw	870030	7-32	5
Bearing, Screed Flight Screw	870030	7-39	5
Bearing, Screed Flight Screw	870030	7-40	5
Bearing, Screed Flight Screw	870030	7-41	5
Bearing, Screed Flight Screw	870030	7-42	5
Bearing, Screed Flight Screw	870030	7-45	6
Bearing, Screed Flight Screw	870030	7-46	6
Bearing, Truck Hitch Roller	930050	7-18	9
Bed Assy. 8500 Conveyor	851627SRV	7-3	—
Belly Pan, LH	851127LSRV	7-3	15
Belly Pan, RH	851127RSRV	7-3	16
Belt, Fan 8515 Tier 4i	1009253-20	7-9	21
Block Link	850080A	7-3	14
Block, Terminal	985138-04	7-64	10
Block, Terminal	985138-04	7-47	10
Bolt, Conveyor Drive Chain Adjuster	851148SRV	7-6	2
Bottom Rail, 8500 Screed Ext	855783	7-27	10
Bottom Rail, 8500 Screed Ext	855783	7-33	10
Bottom Tank	988049	7-4	16
Bracket For SM	988226	7-19	22
Bracket, Alternator	1009253-31	7-9	10
Bracket, Depth Screw Control LH	890132LSRV	7-43	6
Bracket, Depth Screw Control RH	890132RSRV	7-44	6
Bracket, Grade Control	855568	7-14	22
Bracket, Harness	1009253-29	7-9	11
Bracket, Sonic Tracker	851578	7-16	15
Bracket, Sonic Tracker	851578	7-17	17
Bracket, Z Arm, TOPCON	9090-1125SRV	7-16	23
Bracket, Z Arm, TOPCON	9090-1125SRV	7-17	11

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Bracket,Ecu Mount	1009253-01	7-9	5
Breaker, 15 Amp	985140	7-47	8
Breaker, 15 Amp	985140	7-64	8
Breaker, Main	985880	7-49	5
Breather, Track Tensioner Cyl.	851644	7-1	20
Breather, Track Tensioner Cyl.	851644	7-2	26
Brkt, LH Depth Screw Bottom Mount	1006571	7-60	3
Brkt, RH Depth Screw Bottom Mount	1006452	7-61	3
Brkt, Sonic Sensor	1006451	7-60	9
Brkt, Sonic Sensor	1006451	7-61	9
Bumper Assy, Rad Isolator Mnt	1001166-60	7-9	29
Bumper, Water Tank/Conveyor	410070	7-19	5
Burner Nozzle, Ignitor	1008652SRV	7-15	19
Burner Nozzle, Screed Extension	1008654SRV	7-15	20
Burner, Screed Extension	982504	7-15	17
Bushing	988588	7-38	4
Bushing, 2.00 ID x 2.50 OD x 2.50	810070	7-1	37
Bushing, 2.00 ID x 2.50 OD x 2.50	810070	7-18	6
Bushing, 2.00 ID x 2.50 OD x 2.50	810070	7-5	7
Bushing, Composite, Power Crown	1000960	7-65	-
Bushing, Fiber, 2.25 OD / 2.00 ID	1006417	7-57	3
Bushing, Track	811314	7-1	26
Bushing, Track Link, Short	851460	7-1	25
Cable 1.0625	851246	7-16	10
Cable J-Box to Control Box	983416-01	7-17	5
Cable, AM Module Only	985866-02	7-16	-
Cable, AM Module Only	985866-02	7-17	9
Cable, Battery	5804	7-19	-
Cable, Battery	986804	7-19	-
Cable, Height Locator .188 x 90 w/5.00"	851520	7-14	10
Cable, Power, Ultrasonic	982796	7-43	13
Cable, Power, Ultrasonic	982796	7-44	13
Cable, Power, Ultrasonic	980550	7-60	11
Cable, Power, Ultrasonic 5	980550	7-61	11
Cap, Fuel Tank, Lockable	140030FL	7-47	11
Cap, Fuel Tank, Lockable	140030FL	7-64	11

Description	Part Number	Figure #	Item #
Cap, Fuel Tank, Lockable	140030FL	7-7	9
Cap, Hyd Tank, Lockable	140030HL	7-7	1
Cap, Radiator, 13.5Psi, 2.25"Neck	1002184-04	7-9	32
Capacitor, Generator, 20 uF	1002146	7-49	—
Capacitor, Generator, 25 uF	1002147	7-49	—
Capacitor, Generator, 30 uF	1002148	7-49	—
Capacitor, Generator, 40 uF	986658	7-49	—
Cartridge Valve, 2-Speed (HPS)	851236	7-7	23
Cartridge Valve, Auto Auger (HPS)	851235	7-7	22
Cartridge Valve, Auto Conveyor (HPS)	851628A-1	7-7	18
Case For Sonic Tracker	851265	7-16	21
Cast Track Pad	811304	7-1	22a
Center Shield, Conveyor Rear	840162	7-4	9
Chain Cover, 8515	981688	7-5	2
Chain Guard, Conveyor L.H. Drive	854532SRV	7-6	8
Chain Guard, Conveyor R.H. Drive	853572SRV	7-6	—
Chain Rail, Track Drive	851102	7-1	3
Chain Rail, Track Drive, Heavy Duty	983166-03	7-2	—
Chain Turnbuckle	986639SRV	7-24	4
Chain, Auger Drive	985815	7-5	39
Chain, Conveyor Drive (#80)	851121	7-3	23
Chain, Conveyor Drive (#80)	851121	7-6	4
Chain, Roller, 40 x 52 Pitch	870190	7-27	4
Chain, Roller, 40 x 52 Pitch	870190	7-28	4
Chain, Roller, 40 x 52 Pitch	870190	7-33	4
Chain, Roller, 40 x 52 Pitch	870190	7-34	4
Chain, Roller, 50 X 18 r	1000958	7-65	9
Chain, Roller, 60H X 39 Pitches	1008047	7-53	4
Chain, Roller, 60H X 39 Pitches	1008047	7-54	4
Chain, Roller, 60H X 39 Pitches	1008047	7-65	8
Chrome Rod	988601	7-38	6
Clamp, Auger 12"	981683	7-5	13
Clamp, Element, Screed Ext	985123	7-39	11
Clamp, Element, Screed Ext	985123	7-40	11
Clamp, Element, Screed Ext	985123	7-41	13
Clamp, Element, Screed Ext	985123	7-42	13

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Clamp, Element, Screed Ext	985123	7-58	3
Clamp, Element, Screed Ext	985123	7-59	3
Clamp, Hopper Front Flashing	985062SRV	7-4	13
Clevis, .188 x .250	851213	7-14	9
Coil Cord, 15ft CA to Tracker	983414-08	7-17	3
Coil Cord, 6s/6s 1.5 to 7.5 ft	983050	7-43	15
Coil Cord, 6s/6s 1.5 to 7.5 ft	983050	7-44	15
Coil, 12V (HPS)	851628A-2	7-7	19
Coil, 12VDC SV12, Generator	983644-01	7-22	1
Coil, 12VDC w/Deutsch Connector	983643-02a	7-21	2
Coil, Control Bypass H-1 Pump	986519-01	7-8	—
Coil, w/Diode, 12V	851237A	7-7	24
Coiled Cord, TOPCON Tracker/Slope	851574	7-16	28
Collar, Auger End Mount	851645	7-5	6
Collar, Lock	620400	7-18	5
Collar, Power Crown Locking	1000798	7-65	7
Condulet, 3/4" Aluminum	920238-2	7-65	-
Controller, 50 DIN, Plus One	1010161	7-8	5
Conveyor Chain, Assy	851117ASRV	7-3	12
Conveyor Mounting Plate With Bearing	851483	7-3	4
Conveyor, Assy. Complete	851626SRV	7-3	—
Cord, 4 Ft , Electronic Steering	851548-04	7-8	4
Cotter Pin, .188 x 2.00 Long	80338	7-6	9
Coupling Assy, Motor To Generator, 28 mm	987894	7-49	—
Coupling Half, 1.00, Vibrator Shaft	880030	7-35	3
Coupling Half, 1.00, Vibrator Shaft	880030	7-36	3
Coupling Half, 3 Jaw, 24 mm	1002454	7-49	—
Coupling Half, Tack Pump Motor	280030	7-35	5
Coupling Half, Tack Pump Motor	280030	7-36	5
Coupling, Drive Plate	1002676-03	7-9	3
Cover, 3/4" Condulet	920238-3	7-65	-
Cover, Access Hole LH	987620	7-19	7
Cover, Access Hole RH	987633	7-19	16
Cover, Access Hole, Top	987629	7-19	15
Cover, Auger Support, 8515	981695	7-5	14
Cover, Back Panel	930065	7-18	15

Description	Part Number	Figure #	Item #
Cover, Dash Channel	855373	7-19	30
Cover, Drivers Side	987623	7-19	9
Cover, Elements, Screed Base	985124	7-33	6
Cover, Elements, Screed Base	985124	7-34	7
Cover, Elements, Screed Base	985125	7-53	5
Cover, Elements, Screed Base	985125	7-54	5
Cover, Power Crown	986643	7-24	3
Cover, Power Crown	1008168	7-65	1
Cover, Rear Elements	1007002	7-53	11
Cover, Rear Elements	1007002	7-54	8
Cover, Right Side SM	1009347	7-19	4
Cover, Screed Elements	985149	7-54	14
Cover, Screed Elements	985149	7-53	17
Cover, Screed LH Ext Cyl	851204SRV	7-27	15
Cover, Screed LH Ext Cyl	851204SRV	7-33	15
Cover, Screed Lid	985149	7-28	18
Cover, Screed Lid	985149	7-34	18
Cover, Screed Lower, LH/RH	1007000	7-53	20
Cover, Screed Lower, LH/RH	1007000	7-54	17
Cover, Screed Plate Access	851201SRV	7-27	14
Cover, Screed Plate Access	851201SRV	7-33	14
Cover, Screed RH Ext Cyl	851203SRV	7-27	16
Cover, Screed RH Ext Cyl	851203SRV	7-33	16
Weldment Cover, Center, Tier 4I	1010449SRV	7-19	3
Cover, Upper, Vent, LH, With Louvers	1011954	7-19	11
Cover, Vent, Top, RH, Tier 4I	1009351	7-19	25
Cplg Half, 3 Jaw, 1"	880030	7-55	3
Cplg Half, 3 Jaw, 5/8"	280030	7-55	5
Crown & Valley Assy, Front	870172	7-27	3
Crown & Valley Assy, Front	870172	7-28	3
Crown & Valley Assy, Front	870172	7-33	3
Crown & Valley Assy, Front	870172	7-34	3
Crown & Valley Assy, Rear	870182	7-27	2
Crown & Valley Assy, Rear	870182	7-28	2
Crown & Valley Assy, Rear	870182	7-33	2
Crown & Valley Assy, Rear	870182	7-34	2

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
CSHH, .250 x 2.00	102-9-1A	7-14	18
CSHH, .250-20 x 1.00	80185	7-31	19
CSHH, .250-20 x 1.00	80185	7-32	19
CSHH, .250-20 x 1.00	80185	7-41	19
CSHH, .250-20 x 1.00	80185	7-42	19
CSHH, .250-20 x 1.00	102-5-1A	7-6	24
Cshh, .312-18 X.50, Gr5	102-102-1A	7-53	24
Cshh, .312-18 X.50, Gr5	102-102-1A	7-54	20
Cshh, .312-18 X.50, Gr5	102-102-1A	7-64	15
Cshh, .312-18 X.75, Gr5	102-103-1A	7-55	11
Cshh, .312-18 X.75, Gr5	102-103-1A	7-58	31
Cshh, .312-18 X.75, Gr5	102-103-1A	7-58	29
Cshh, .312-18 X.75, Gr5	102-103-1A	7-59	29
Cshh, .312-18 X.75, Gr5	102-103-1A	7-59	31
Cshh, .312-18 X1.50, Gr5	102-107-1A	7-53	26
Cshh, .312-18 X1.50, Gr5	102-107-1A	7-54	22
Cshh, .312-18 X2.50, Gr5	102-111-1A	7-58	19
Cshh, .312-18 X2.50, Gr5	102-111-1A	7-59	19
Cshh, .375-16 X.50, Gr5	102-202-1A	7-62	14
Cshh, .375-16 X.50, Gr5	102-202-1A	7-63	14
CSHH, .375-16 x .750	851134	7-14	16
CSHH, .375-16 x .750	851134	7-4	10
CSHH, .375-16 x 1.00	102-205-1A	7-7	14
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-58	21
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-59	21
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-59	26
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-58	26
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-59	33
Cshh, .375-16 X1.00, Gr5	102-205-1A	7-65	12
Cshh, .375-16 X1.00, Gr5 X1 Hex	102-205-1A	7-58	33
CSHH, .375-16 x 2.00	80230	7-31	16
CSHH, .375-16 x 2.00	80230	7-32	16
CSHH, .375-16 x 2.00	80230	7-41	16
CSHH, .375-16 x 2.00	80230	7-42	16
CSHH, .375-16 x 2.00, GR5	102-209-1A	7-4	32
CSHH, .375-24 x 1.00, GR5	100-205-1A	7-27	18

Description	Part Number	Figure #	Item #
CSHH, .375-24 x 1.00, GR5	100-205-1A	7-28	21
CSHH, .375-24 x 1.00, GR5	100-205-1A	7-33	18
CSHH, .375-24 x 1.00, GR5	100-205-1A	7-34	21
CSHH, .375-24 x 1.00, GR8	81068	7-29	14
CSHH, .375-24 x 1.00, GR8	81068	7-30	14
CSHH, .375-24 x 1.00, GR8	81068	7-39	14
CSHH, .375-24 x 1.00, GR8	81068	7-40	14
Cshh, .437-14 X1.00, Gr5	102-305-1A	7-53	31
Cshh, .437-14 X1.00, Gr5	102-305-1A	7-54	27
CSHH, .437-14 x 1.25, GR5	860048	7-29	17
CSHH, .437-14 x 1.25, GR5	860048	7-30	17
CSHH, .437-14 x 1.25, GR5	860048	7-39	17
CSHH, .437-14 x 1.25, GR5	860048	7-40	17
Cshh, .437-14 X1.50, Gr5	102-307-1A	7-58	23
Cshh, .437-14 X1.50, Gr5	102-307-1A	7-59	23
CSHH, .500-13 x .750	80840	7-43	10
CSHH, .500-13 x .750	80840	7-44	10
CSHH, .500-13 x 1.00	102-405-1A	7-3	10
Cshh, .500-13 X1.00, Gr5	102-405-1A	7-55	13
Cshh, .500-13 X1.00, Gr5	102-405-1A	7-65	14
Cshh, .500-13 X1.25, Gr5	102-406-1A	7-56	3
Cshh, .500-13 X1.25, Gr5	102-406-1A	7-65	17
CSHH, .500-13 x 1.50	811364	7-1	47
CSHH, .500-13 x 1.50, GR5	102-407-1A	7-4	33
CSHH, .500-13 x 1.75	102-408-1A	7-14	20
CSHH, .500-13 x 2.00	851111	7-18	11
CSHH, .500-13 x 2.00	851111	7-3	1
CSHH, .500-13 x 2.00	851111	7-6	6
Cshh, .500-13 X2.00, Gr5	102-409-1A	7-53	33
Cshh, .500-13 X2.00, Gr5	102-409-1A	7-54	29
CSHH, .500-13 x 2.50	102-411-1A	7-14	12
CSHH, .500-13 x 2.50	102-411-1A	7-16	7
CSHH, .625 x 1.25	800282	7-3	24
CSHH, .625-11 x .250 GR5	102-606-1A	7-16	25
CSHH, .625-11 x .250 GR5	102-606-1A	7-17	15
Cshh, .625-11 X1.00, Gr5	102-605-1A	7-55	9

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
CSHH, .625-11 x 1.25 GR8	81170	7-1	8
CSHH, .625-11 x 1.25 GR8	81170	7-2	15
Cshh, .625-11 X 1.25, Gr8	81170	7-4	-
CSHH, .625-11 x 1.50	102-607-1A	7-6	18
CSHH, .625-11 x 1.50, GR5	102-607-1A	7-4	35
CSHH, .625-11 x 2.00 GR8	80983	7-1	7
CSHH, .625-11 x 2.00 GR8	80983	7-2	17
CSHH, .625-11 x 2.50	102-611-1A	7-14	14
CSHH, .625-11 x 2.50	102-611-1A	7-16	13
Cshh, .625-11 X 3.50, Gr5	102-615-1A	7-64	12
CSHH, .625-11 x 4.00 GR5	102-617-1A	7-16	17
CSHH, .625-11 x 4.00 GR8	102-617-1A	7-17	19
CSHH, .875-9 x 2.00, GR5	102-809-1A	7-43	5
CSHH, .875-9 x 2.00, GR5	102-809-1A	7-44	5
CSHH, 1.00-14 x 3.00 GR8	100-913-1A	7-6	14
CSHH, 1.00-14 x 3.50 GR8	100-915-1A	7-6	16
CSHH, 135mm, Track Pad Bolt	983166-06	7-2	-
Cshh, 312-18 X 50, Gr5	102-102-1A	7-60	20
Cshh, 312-18 X 50, Gr5	102-102-1A	7-61	20
Cshh, 375-16 X 100, Gr5	102-205-1A	7-61	17
Cshh, 375-16 X 100, Gr5	102-205-1A	7-60	17
Cshh, 437-14 X 75, Gr5	102-303-1A	7-60	21
Cshh, 437-14 X 75, Gr5	102-303-1A	7-61	21
Cshh, 500-13 X 100, Gr5	102-405-1A	7-60	13
Cshh, 500-13 X 100, Gr5	102-405-1A	7-61	12
CSHH, M10-1.50 x 30mm	989272-36	7-2	20
CSHH, M12-1.50 x 40mm	811330	7-1	13
CSHH, M12-1.50 x 50mm	811330A	7-1	11
CSHH, M12-1.50 x 50mm	811330A	7-2	19
CSHH, Track Pad	811308	7-1	30
CSSH, .312-18 x .750	102-103-1A	7-5	26
CSSH, .312-18 x .750	102-103-1A	7-5	37
Cssh, .312-18 X 1.50, Gr5	102-5-18-24-F	7-53	30
Cssh, .312-18 X 1.50, Gr5	102-5-18-24-F	7-54	26
CSSH, .375-16 Shldr Socket	870279	7-29	6
CSSH, .375-16 Shldr Socket	870279	7-30	6

Description	Part Number	Figure #	Item #
CSSH, .375-16 Shldr Socket	870279	7-31	7
CSSH, .375-16 Shldr Socket	870279	7-32	7
CSSH, .375-16 Shldr Socket	870279	7-39	6
CSSH, .375-16 Shldr Socket	870279	7-40	6
CSSH, .375-16 Shldr Socket	870279	7-41	7
CSSH, .375-16 Shldr Socket	870279	7-42	7
CSSH, .375-16 x .750	102-203-1A	7-5	28
CSSH, .375-16 x .750	102-203-1A	7-6	11
CSSH, .500-13 x 1.50	811364	7-5	21
CSSH, .500-13 x 1.50	860045	7-5	23
CSSH, .500-13 x 1.75	80503	7-2	23
CSSH, .500-13 x 2.00, GR5	851111	7-4	34
CSSH, .500-20 x 1.50	100-408-1	7-38	9
CSSH, .625 x 1.00	851652	7-3	32A
CSSH, .625 x 2.00	851653	7-3	29A
CSSH, .625-11 x 1.50	860039	7-5	30
CSSH, .625-11 x 2.75	80286	7-5	35
CSSH, M10-1.50 X 30mm	811320	7-1	17a
Cummins, 9-Pin Bracket	1010076-11	7-12	8
Cummins, Air Box	1010076-44	7-12	45
Cummins, Belt, V-Ribbed	1010076-35	7-12	36
Cummins, Bowl, Fuel Separator	1010076-25	7-12	25
Cummins, Cap, Radiator, 14 Psi	1009242-14	7-12	11
Cummins, Clamp	1010076-39	7-12	40
Cummins, Clamp	1010076-43	7-12	44
Cummins, Connector Pipe	1010076-41	7-12	42
Cummins, Coupler	1010076-36	7-12	37
Cummins, Deutsch Connector	1010076-12	7-12	9
Cummins, Dipstick, Oil	1010076-49	7-12	50
Cummins, ECU	1010076-34	7-12	35
Cummins, Exhaust Elbow	1010076-27	7-12	27
Cummins, Exhaust Stack	1010076-32	7-12	32
Cummins, Exhaust, Flapper, Rain Cap	1011119-22	7-12	33
Cummins, Fan Guard	1010076-10	7-12	7
Cummins, Filter, Air Primary	1010076-02	7-12	Ref
Cummins, Filter, Air Secondary	1010076-01	7-12	Ref

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Cummins, Front Leg Weldment, LH	1010076-21	7-12	21
Cummins, Front Leg Weldment, RH	1010076-20	7-12	20
Cummins, Fuel Filter	1010076-33	7-12	34
Cummins, Fuel Prefilter Bracket	1010076-24	7-12	24
Cummins, Fuel/Water Separator Filter	1010076-26	7-12	26
Cummins, Intake Elbow	1010076-38	7-12	39
Cummins, Intake Elbow, Short	1010076-40	7-12	41
Cummins, Intake Pipe	1010076-45	7-12	46
Cummins, Isolator	1010076-05	7-12	2
Cummins, Isolator	1010076-08	7-12	5
Cummins, Isolator	986537-14	7-12	19
Cummins, Lower CAC Pipe	1010076-17	7-12	15
Cummins, Lower Coolant Pipe	1010076-18	7-12	17
Cummins, Muffler	1010076-31	7-12	31
Cummins, Muffler Mount	1010076-30	7-12	30
Cummins, Muffler Riser	1010076-29	7-12	29
Cummins, Oil Filter	1010076-46	7-12	47
Cummins, Oil Filter Housing	1010076-51	7-12	53
Cummins, Oil Pan	1010076-50	7-12	52
Cummins, Pipe, Waterproof Turbo To Muffler	1010076-28	7-12	28
Cummins, Plate, Pump, Mnt., Kub	1001166-11	7-12	51
Cummins, Radiator Assembly	1010076-04	7-12	1
Cummins, Radiator Bracket, LH	1010076-09	7-12	6
Cummins, Radiator Bracket, RH	1010076-13	7-12	10
Cummins, Radiator Fan	1010076-06	7-12	3
Cummins, Radiator Mount	1010076-07	7-12	4
Cummins, Rear Foot, LH	1010076-22	7-12	22
Cummins, Rear Foot, RH	1010076-23	7-12	23
Cummins, Reducing Elbow	1010076-42	7-12	43
Cummins, Sensor	1010076-14	7-12	12
Cummins, Silicone Hose, 4 Inch	1010076-15	7-12	13
Cummins, Turbo Intake	1010076-47	7-12	48
Cummins, Turbo Intake Clamp (to Engine)	1010076-48	7-12	49
Cummins, Upper CAC Pipe	1010076-37	7-12	38
Cummins, Upper Water Pipe	1010076-16	7-12	14
Cummins, Washer	1010076-19	7-12	18

Description	Part Number	Figure #	Item #
Cutoff Left Side	851153SRV	7-6	22
Cutoff Right Side	851154SRV	7-6	23
Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851191	7-48	1
Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851192	7-48	2
Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	981710R	7-48	3
Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	981710L	7-48	4
Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	981710R	7-53	21
Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	981710R	7-54	18
Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	981710L	7-53	22
Cyl, Hyd, 2.00 X 2.00 X 42.00 X 1.25	981710L	7-54	19
Cyl, Hyd, 2.75 x 2.00 x 1.125 Rod	983421	7-48	5
Cyl, Hyd, 2.75 X 2.00 X 1.125 Rod	983421	7-53	23
Cyl, Hyd, Track Tensioner	811331	7-1	19
Cyl, Hyd, Track Tensioner	980607-01	7-2	9
Cyl. Hyd. 2.00 x 8.00	610110	7-4	3
Cylinder, Arm Extension	930070	7-18	16
Cylinder, Hopper Lift	840020	7-4	18
Decal, 8515C	1009897	7-23	—
Decal, Certified Emission Engine Installation	1010091	7-23	—
Decal, CJ-4 Oil Only	1010089	7-23	—
Decal, Control Panel, Tier 4	1010027	7-23	—
Decal, Display Panel, 8515 Tier 4i	1009253-06	7-23	8
Decal, Height	851215	7-14	11
Decal, Ultra Low Sulfur Fuel Only	1010090	7-23	—
Deflector, Left Side (High Deck)	850038LSRV	7-3	26
Deflector, Right Side (High Deck)	850038RSRV	7-3	—
Depth Screw Assy, Screed	890092SRV	7-43	3
Depth Screw Assy, Screed	890092SRV	7-44	3
Door, Engine Access	1009349	7-19	12
Drive Plate Assy, Sae #4, B Mnt	1002676-02	7-9	2
Drive Shaft, Conveyor	851116	7-3	8
Dual Grade & Slope	988288SRV	7-17	—
Dual Grade Control	988409SRV	7-17	—
Dual Joysticks, Control Box, Plus One	1008904SRV	7-8	3
Dual Pilot Operated Check Valve	983643-05	7-21	5
Ears, Pivot	851210SRV	7-14	6

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Ecu Kubota Tier 4i	1009253-24	7-9	6
Element, Heater, 46", 1000W	1007275SRV	7-53	10
Element, Heater, 46", 1000W	1007275SRV	7-54	7
Element, Heater, Screed, 40"	987890SRV	7-39	9
Element, Heater, Screed, 40"	987890SRV	7-40	9
Element, Heater, Screed, 40"	987890SRV	7-41	11
Element, Heater, Screed, 40"	987890SRV	7-42	11
Element, Heater, Screed, 41"	987890SRV	7-58	5
Element, Heater, Screed, 41"	987890SRV	7-59	5
Element, Heater, Screed, 46"	987886SRV	7-33	9
Element, Heater, Screed, 46"	987886SRV	7-34	12
Element, Heating, 570W, 240V, 13"	1000397	7-44	-
Element, Heating, 970W, 240V, 24.75"	1000893	7-44	-
Emergency Brake Switch	988924-03SRV	7-23	20
Enclosure, Elec 3 SW, LWR Cont	984534L	7-45	8
Enclosure, Elec 3 SW, LWR Cont	984534R	7-46	8
Enclosure, Elec 3 Sw, Lwr Cont	984534L	7-62	1
Enclosure, Elec 3 Sw, Lwr Cont	984534R	7-63	1
Assembly, Side Access Door, RH	1011030	7-19	8
End, Motor End of Screw	851212	7-14	8
End, Rod End of Screw	851211	7-14	7
Engine Mount, Rear, Kub	988673-14	7-9	17
Engine, Kubota, Tier 4i, 87.5Hp, 8515	1009253	7-9	1
Engine, Cummins 8515 Tier 4I	1010076	7-10	2
Ext Adj Screw Assy	851185SRV	7-29	4
Ext Adj Screw Assy	851185SRV	7-30	4
Ext Adj Screw Assy	851185SRV	7-31	6
Ext Adj Screw Assy	851185SRV	7-32	6
Ext Adj Screw Assy	851185SRV	7-39	4
Ext Adj Screw Assy	851185SRV	7-40	4
Ext Adj Screw Assy	851185SRV	7-41	6
Ext Adj Screw Assy	851185SRV	7-42	6
Extension, 6' Left Side	851634LSRV	7-20	3
Extension, 6' Right Side	851634RSRV	7-20	4
Extension, Front Bumper	852664	7-1	51
Extension, Screed Arm	851206SRV	7-14	1

Description	Part Number	Figure #	Item #
Fan Shroud	986537-40	7-9	30
Fan, Radiator 8515 Tier 4i	1009253-23	7-9	22
Filler Neck	140030FN	7-7	2
Filter Fuel 8515 Tier 4i	1009253-18	7-9	-
Filter Fuel Water Separator 8515 Tier 4i	1009253-19	7-9	-
Filter Oil Kubota	986537-03	7-9	4
Filter, Air Primary 8515 Tier 4i	1009253-17	7-9	-
Filter, Air Secondary 8515 Tier 4i	1009253-16	7-9	-
Filter, Element Hydraulic	984594-01	7-21	-
Filter, Element Hydraulic	984594-01	7-7	26
Filter, Element, Charge/Return	290030	7-7	13
Filter, Head, Charge/Return	290010	7-7	12
Filter, Hydraulic	36123	7-7	6
FITT	5406-12-8	7-1	42
FITT, 90 10MJ-08MB	6801-10-8	7-1	39
FITT, Str 08MP-08MB	6401-8-8	7-1	41
FITT, Str 10MJ-08MB	6400-10-8	7-1	40
Flashing, Center, Front Lip	985063	7-4	28
Flight Screw Assembly	1006427	7-62	4
Flight Screw Assembly	1006427	7-63	4
Flight Screw Assy	1002728SRV	7-45	5
Flight Screw Assy	1002728SRV	7-46	5
Flow Divider FD10	983643-10	7-21	10
Flow Divider Screed	851689	7-7	25
Frame Body	Reference	7-6	27
Front Lip Clamp	985581	7-4	31
Fuel Sender Kubota Tier 4	1009253-36	7-9	-
Fuse Holder	1009253-27	7-9	15
Gasket, Condulet Box, 3/4"	920238-4	7-65	-
Gauge, L.P.G. Pressure	230110	7-15	3
Gauge, Murphy, Tier 4i	1009253-04	7-23	9
Generator, Hyd., 85XX, Assy	987893	7-49	1
Grating, Left Side	987862	7-19	18
Grating, Middle	987863	7-19	19
Grating, Right Side	987864	7-19	20
Group, Screed Base 8500 Series Elec	989377	7-33	1

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Group, Screed Base 8500 Series Prop	1000251	7-27	1
Group, Screed Frame, 815HD	1007195	7-53	1
Group, Screed Frame, 815HD	1007195	7-54	1
Guard, Fan, Maintainer	1005365-23	7-9	23
Guard, LH Screed Ext Hinge	851180LSRV	7-29	16
Guard, LH Screed Ext Hinge	851180LSRV	7-31	15
Guard, LH Screed Ext Hinge	851180LSRV	7-39	16
Guard, LH Screed Ext Hinge	851180LSRV	7-41	15
Guard, RH Screed Ext Hinge	851180RSRV	7-30	16
Guard, RH Screed Ext Hinge	851180RSRV	7-32	15
Guard, RH Screed Ext Hinge	851180RSRV	7-40	16
Guard, RH Screed Ext Hinge	851180RSRV	7-42	15
Guide Bar Assy	920032SRV	7-4	22
Guide Wheel, Truck Hitch	930055	7-18	10
Hair Pin Cotter, .177	870307	7-1	18
Hair Pin Cotter, .177	870307	7-2	13
Hair Pin Cotter, .177	870307	7-4	5
Half Link, Conveyor Chain w/Pin, Cotter	850215A	7-3	17
Hand Grip, Flight/Depth Screw	870276	7-43	17
Hand Grip, Flight/Depth Screw	870276	7-44	17
Hand Grip, Flight/Depth Screw	870276	7-45	7
Hand Grip, Flight/Depth Screw	870276	7-46	7
Handle & Nozzle, Spraydown	920220	7-13	6
Handle Grip for Steering Box Handle	490010	7-8	—
Handle, Bolt, .625-11	300060	7-16	24
Handle, Bolt, .625-11	300060	7-17	14
Harness, Electric Heat, Gen. to Bulkhead	1007254	7-49	7
Harness, Plus One to Pumps	987133	7-8	6
Harness, Wiring Lower (N/S)	983644-06	7-22	6
Hinge Assy	1002735	7-31	3
Hinge Assy	1002736	7-32	3
Hinge Assy	1002735	7-41	3
Hinge Assy	1002736	7-42	3
Hinge, (2) Thru Holes	987639	7-19	13
Hinged Panel, L/H	840157SRV	7-4	20
Hinged Panel, R/H	840156SRV	7-4	21

Description	Part Number	Figure #	Item #
Hold Down	802112SRV	7-4	8
Hood, Air Inlet, 3.75	1002917-29	7-9	47
Horn, Backup Alarm	160320	7-8	—
Hose Assy Track RH Tensioner	8550B	7-1	49
Hose Clamp, #40	33437	7-9	39
Hose Clamp, #60	35567	7-9	42
Hose Clamp, #60	35567	7-9	45
Hose Clamp, #60	35567	7-9	48
Hose Clamp, 2.125 (Size 28)	230240	7-15	18
Hose Kit 8515 Truck Hitch	984399	7-18	—
Hose Reel, Machine Washdown	920200	7-13	1
Hose, 15'	984339	7-13	8, 9
Hose, 15'	984339	7-13	12
Hose, Ignitor Burner	230034	7-15	7
Hose, Ignitor Burner	230034	7-15	23
Hose, L.P.G. Regulator to Tee	230032	7-15	6
Hose, Pump to Hose Reel, 5'	984338	7-13	5
Hose, Radiator, Lower, Kub	1001166-15	7-9	25
Hose, Radiator, Upper	986537-21	7-9	24
Hose, Screed Extension Burner	230038	7-15	10
Hose, Screed Extension Burner	851225	7-15	13
Housing, Front Slide Bar	851243SRV	7-16	4
Housing, Guide Bar (Inner)	920051SRV	7-4	24
Housing, Rear Slide Bar	851241SRV	7-16	1
Housing, Vibrator LH	982965L-1	7-55	2
Housing, Vibrator LH	982965R-1	7-55	8
Hyd. Cyl., Cutoff	910170	7-6	21
Hyd. Cyl., Screed Lift (1000c / 8000c / 8500)	851436	7-6	12
Hyd. Motor, Conveyor Main	26130	7-3	21
Hyd. Motor, Conveyor Main	260130	7-5	4
Hyd. Motor, Conveyor Main	260130	7-6	1
Hyd. Motor, Screed Vibrator	983405	7-35	6
Hyd. Motor, Screed Vibrator	983405	7-36	6
Idler, Conveyor Chain Front	850120	7-3	28
Idler, Track Front	1001589	7-1	14
Idler, Track Front	983530	7-2	11

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Ignition Key, Replacement	982008-04	7-23	-
Ignitor, Ceramic, Hot Surface	230024	7-15	22
Insert, 3-Jaw Coupling	280040	7-35	4
Insert, 3-Jaw Coupling	280040	7-36	4
Insert, 3-Jaw Coupling	280040	7-55	4
Isolator	986537-14	7-9	20
Isolator, Rad Lower Mnt	1001166-59	7-9	33
Isolator, Rad Upper Mnt	1001166-57	7-9	35
Jointer Assy, 8515, LH	983308SRV	7-43	1
Jointer Assy, 8515, RH	983309SRV	7-44	1
Joystick, Dual Joystick Box	987134-02	7-8	-
Key, Vandalism Lock	35560	7-19	-
Kit, Decals, 8515 Safety & Ops	1007678	7-23	-
Kit, Shaft, H-1 Pump	986519-03	7-8	-
Kit, Spraydown Pump	1011885	7-13	10
Kit, Track, Heavy Link	983166-05	7-2	-
Kit, Viton O-Ring	986992-06	7-49	-
Knob, Dual Joystick Box	987134-03	7-8	-
Knob, Revolving Ball, M12 X 1.75	981574	7-62	5
Knob, Revolving Ball, M12 X 1.75	981574	7-63	5
Knob, Revolving Ball, M12 X 175	981574	7-60	8
Knob, Revolving Ball, M12 X 175	981574	7-61	8
L.P.G. Tank, 20 lbs	230010	7-15	1
Latch, Walkboard	985549	7-37	7
Light, Red, Dash, .50 Hole	31983	7-64	3
Light, Red, Dash, .500 Hole	31983	7-47	3
Light, Red, Indicator	900120	7-23	6
Light, Red, Indicator	900120	7-23	14
Light, Strobe, Amber	211748-02	7-19	-
Light, Indicator, Red	1009253-07	7-23	10
Link Kit, Track Repair	811312	7-1	24
Link w/Tab Conveyor Chain Inner	850080B	7-3	19
Link, Master	853411	7-5	-
Link, Master w/Pins	850070A	7-3	13
Linkage	900075	7-3	38
Lock Arm, Flight Screw	851375SRV	7-62	13

Description	Part Number	Figure #	Item #
Lock Arm, Flight Screw	851375SRV	7-63	13
Lock Nut Ptorq 3/4-16	95998936	7-62	18
Lock Nut Ptorq 3/4-16	95998936	7-63	18
Locking Bar, Crown And Valley	988376	7-27	5
Locking Bar, Crown And Valley	988376	7-28	5
Locking Bar, Crown And Valley	988376	7-33	5
Locking Bar, Crown And Valley	988376	7-34	5
Locknut	95200879	7-62	7
Locknut	95200879	7-63	7
Lockwasher	95200978	7-62	8
Lockwasher	95200978	7-63	8
Manifold Lower	983644-07	7-22	7
Manifold, 9-Station Upper	983643-13	7-21	13
Manifold, Auto Auger/ 2-Speed (HPS)	850001	7-7	21
Manifold, Auto Conveyor (HPS)	851628A	7-7	17
Manifold, Generator	986992-05	7-49	—
Manifold, Generator, w/Flow Control	986992	7-49	8
Manifold, Side Wing	910122	7-7	10
Manifold, Track Tensioner	851544	7-1	43
Micro Switch, Auto. Conveyors	900050	7-3	36
Mnt, Push Roller, Extended	1006286	7-1	-
Motor Mount Cover	986644	7-24	6
Motor, Hyd, Danfoss	986640	7-65	4
Motor, Hyd, Drive, 2 Speed	811362	7-1	44
Motor, Hyd, Drive, 2 Speed	811362	7-2	3
Motor, Hyd, Gear, 1.17 Cir, "A"	983405	7-55	6
Motor, Hyd, Generator	986994	7-49	3
Motor, Power Crown	986640	7-24	1
Mount Fuse Plate	1009253-26	7-9	13
Mount, Conveyor Drive Motor	851149SRV	7-6	3
Mount, Motor LF Kubota	986537-16	7-9	19
Mount, Motor RF Kubota	986537-17	7-9	18
Mount, Motor, 8515	981696	7-5	5
Mount, Pivot	851209SRV	7-14	4
Mount, Sonic Sensor	1008905	7-60	10
Mount, Sonic Sensor	1008905	7-61	10

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Mounting Plate	1009253-30	7-9	12
Mounting Plate 6" Electric Screw, LH	853585SRV	7-14	—
Mounting Plate 6" Electric Screw, RH	853586SRV	7-14	23
Nipple, .375	99638	7-13	4
Nozzle, Spraydown Handle	901210A	7-13	7
Nut	900078	7-3	41
Nut, .375-16 Lock	143-3	7-31	9
Nut, .375-16 Lock	143-3	7-32	9
Nut, .375-16 Lock	143-3	7-41	9
Nut, .375-16 Lock	143-3	7-42	9
Nut, .437-14 Hex	116-4	7-29	18
Nut, .437-14 Hex	116-4	7-30	18
Nut, .437-14 Hex	116-4	7-39	18
Nut, .437-14 Hex	116-4	7-40	18
Nut, .500-13 Hex	116-5	7-6	7
Nut, .750-10 UNC Hex Jam	116-8-1	7-43	4
Nut, .750-10 UNC Hex Jam	116-8-1	7-44	4
Nut, .875-9 UNC-2B Nylon Lock	987396	7-29	15
Nut, .875-9 UNC-2B Nylon Lock	987396	7-30	15
Nut, .875-9 UNC-2B Nylon Lock	987396	7-39	15
Nut, .875-9 UNC-2B Nylon Lock	987396	7-40	15
Nut, .875-9 UNC-2B Nylon Lock	987396	7-43	8
Nut, .875-9 UNC-2B Nylon Lock	987396	7-44	8
Nut, Coil	983643-03	7-21	3
Nut, Coil Retainer (HPS)	851628-3	7-7	20
Nut, Hex, .312-18	116-2	7-64	17
Nut, Hex, .375-16	116-3	7-58	28
Nut, Hex, .375-16	116-3	7-59	28
Nut, Hex, .375-16	116-3	7-62	16
Nut, Hex, .375-16	116-3	7-62	17
Nut, Hex, .375-16	116-3	7-63	16
Nut, Hex, .375-16	116-3	7-63	17
Nut, Hex, .437-14	116-4	7-58	25
Nut, Hex, .437-14	116-4	7-59	25
Nut, Hex, .437-14	116-4	7-60	23
Nut, Hex, .437-14	116-4	7-61	23

Description	Part Number	Figure #	Item #
Nut, Hex, .500-13	350055	7-5	34
Nut, Hex, .500-13	116-5	7-53	28
Nut, Hex, .500-13	116-5	7-53	34
Nut, Hex, .500-13	116-5	7-54	24
Nut, Hex, .500-13	116-5	7-54	30
Nut, Hex, .500-13	116-5	7-56	5
Nut, Hex, .500-13	116-5	7-65	16
Nut, Hex, .500-13	116-5	7-65	19
Nut, Hex, .625-11	116-7	7-64	14
Nut, Hex, 437-14	116-4	7-60	23
Nut, Hex, 437-14	116-4	7-61	23
Nut, Hex, 500-13	116-5-A	7-60	19
Nut, Hex, 500-13	116-5-A	7-61	19
Nut, Hex, Heavy, .625-11	117-5	7-4	37
Nut, Lock 1.00-8	116-10	7-14	13
Nut, Lock, .250	116-1	7-14	19
Nut, Lock, .375-16	143-3	7-4	40
Nut, Lock, .500	115-5-A	7-14	21
Nut, Lock, .500-13	143-5	7-16	5
Nut, Lock, .625-11	116-7	7-14	15
Nut, Lock, .625-11	116-7	7-16	14
Nut, Lock, .625-11	116-7	7-5	36
Nut, Lock, 1.00-14	1002464	7-6	15
Nut, Lock, 875-20	987396	7-60	16
Nut, Lock, 875-20	987396	7-61	16
Nut, Plastic, H-1 Pump	986519-02	7-8	—
Nut, Track Pad Cap Screw	811309	7-1	31
O-Ring, 3.237 Id X .103, SAE 152	36808	7-11	3
O-Ring, Hyd. Motor	811366	7-1	46
O-Ring, Hyd. Motor	811366	7-2	22
O-Ring, Piggyback to Main	36808	7-8	7
Pin	851132	7-4	4
Pin, Cotter (.250)	900079	7-3	42
Pin, Cyl Mount	981661	7-28	10
Pin, Cyl Mount	981661	7-34	10
Pin, Cyl Mount	981661	7-53	8

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Description	Part Number	Figure #	Item #
Pin, Cylinder	210060	7-48	6
Pin, Hydraulic Cylinder	240030	7-4	19
Pin, Hydraulic Cylinder	240030	7-6	20
Pin, Pivot Side Panel	854084SRV	7-4	14
Pin, Push Bar Swivel	810081SRV	7-1	38
Pin, Roll Pin (.375 x 2.00)	851118-1	7-3	20
Pin, Slope	981659	7-53	6
Pin, Spirol, 3/8 Dia X 1-3/4	20160644	7-62	9
Pin, Spirol, 3/8 Dia X 1-3/4	20160644	7-63	9
Pin, Track Link, Master	811306	7-1	28
Pin, Track Link, Master, Heavy Duty	983166-04	7-2	-
Pin, Track Link, Plain	811307	7-1	27
Pipe, Air Intake, Upper, Elbow	1009253-13	7-9	46
Pipe, Intake, Lower	1009253-14	7-9	40
Pivot Mount, TOPCON/Spectra Physics	851575SRV	7-16	22
Pivot Mount, TOPCON/Spectra Physics	851575SRV	7-17	13
Plate, 8000-8500, Cut Off Cylinder Mount	853497	7-6	28
Plate, 8500 Engine Bottom	853669	7-19	29
Plate, Conveyor Flap	853645SRV	7-19	28
Plate, Cover	980751	7-19	10
Plate, Cut Off Cylinder Mount	851152	7-6	17
Plate, Cut Off Gusset	853596	7-6	30
Plate, Display Panel	1009253-03	7-23	-
Plate, Endgate	1006442	7-60	2
Plate, Endgate	1006442	7-61	2
Plate, Endgate Brkt W/Holes	1006536	7-58	15
Plate, Endgate Brkt W/Holes	1006536	7-59	15
Plate, Ext Access Cover	1006398	7-58	10
Plate, Ext Access Cover	1006398	7-59	10
Plate, Ext Strikeoff	1006400	7-58	7
Plate, Ext Strikeoff	1006400	7-59	7
Plate, Pivot Cover	981711	7-28	9
Plate, Pivot Cover	981711	7-34	9
Plate, Pivot Cover	981711	7-53	7
Plate, Power Crown Adjuster	1008600	7-65	3
Plate, Rad Isolator Mnt	1001166-58	7-9	34

Description	Part Number	Figure #	Item #
Plate, Rail Mount	981656	7-28	14
Plate, Rail Mount	981656	7-28	15
Plate, Rail Mount	981656	7-34	14
Plate, Rail Mount	981656	7-34	15
Plate, Screed Cover, LH	985148	7-28	20
Plate, Screed Cover, LH	985148	7-34	20
Plate, Screed Cover, RH	985147	7-28	19
Plate, Screed Cover, RH	985147	7-34	19
Plate, Side Wing Rubber Shield	980727	7-4	15A
Plate, Vibrator Housing	880071	7-35	9
Plate, Vibrator Housing	880071	7-36	9
Plate, Walkboard Hinge	985163	7-56	2
Plate, Wear, 12" Auger, 8515	981699	7-5	17
Plug, Hole Cover, Rad Shroud	1001166-56	7-9	-
Potentometer, Dual Joystick	987134-01	7-8	-
Potentometer, Steering Box	851540	7-8	-
Power Cord, Bulkhead to Control Box	985138-03	7-47	12
Power Cord, Bulkhead to Control Box	1007253	7-49	6
Power Crown Support	986645	7-24	5
Pump Assembly, H1 W/Aux. Pump	987574	7-10, 7-11	3, 1
Pump, Aux. H-1, 11T Spline	987473	7-8	2
Pump, Hyd. Single w/EDC (new: H-1 Pump)	986519	7-8	1
Pump, Hyd., Aux., H1, 11TH, 23CC / 17CC	987473	7-11	4
Pump, Hyd., Tandem, H1 W/EDC	986519	7-11	2
Pump, Spraydown	1011738	7-13	2
Push Roller Assy, Swivel	984283SRV	7-1	33
Push Roller, Truck Wheel	810102	7-18	12
Quick Disconnect Coupling	230084	7-15	21
Radiator Brace	986537-45	7-9	27
Radiator Cover	1010105	7-19	24
Radiator Support Plate	986537-43	7-9	26
Radiator Support Plate Foot	986537-42	7-9	28
Radiator/Cooler Assy, Kub	988673-13	7-9	31
Regulator w/Gauge, L.P.G.	982515	7-15	5
Regulator, Flow FR12-33A	986992-04	7-49	-
Relay And Fuse Block	1009253-28	7-9	16

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Description	Part Number	Figure #	Item #
Relay, 12VDC, DPST ,25 AMP, N/O	985141	7-47	9
Relay, 12VDC, DPST, 25 Amp, N/O	985141	7-64	9
Relay, 12Vdc, Spst, 100 Amp, Hd	985751	7-9	14
Relay, Kubota Power Block	1008253-41	7-9	-
Relay, Time Delay, Off, 10 Amp	988231	7-47	7
Relay, Time Delay, Off,10 Amp	988231	7-64	7
Relief Valve, Side Wing Manifold	910122-1	7-7	11
Remote Pod, Ultra Sonic	982795	7-43	14
Remote Pod, Ultra Sonic	982795	7-44	14
Rnd, .688 X 43.50 CRS	854447SRV	7-58	11
Rnd, .688 X 43.50 CRS	854447SRV	7-59	11
Rnd, .688 x 43.50, CRS	854447	7-29	8
Rnd, .688 x 43.50, CRS	854447	7-30	8
Rnd, .688 x 43.50, CRS	854447	7-31	10
Rnd, .688 x 43.50, CRS	854447	7-32	10
Rnd, .688 x 43.50, CRS	854447	7-39	8
Rnd, .688 x 43.50, CRS	854447	7-40	8
Rnd, .688 x 43.50, CRS	854447	7-41	10
Rnd, .688 x 43.50, CRS	854447	7-42	10
Rod & Chain, Guide Bar	920061SRV	7-4	25
Rod Ext Left	986650	7-24	2b
Rod Ext Right	986636	7-24	2a
Roll Up Curb Attachment, Left Side, 12"	851635LSRV	7-20	5
Roll Up Curb Attachment, Left Side, 24"	851636LSRV	7-20	5
Roll Up Curb Attachment, Right Side, 12"	851635RSRV	7-20	6
Roll Up Curb Attachment, Right Side, 24"	851636RSRV	7-20	6
Roller	930040	7-18	7
Roller Assy, Push Bar, w/Brgs and Shaft	980032	7-1	35
Roller Extension, Bumper	930060	7-18	14
Roller, Conveyor Chain Guide, w/ Bearing	850162	7-3	31
Roller, Extension Bumper	980035	7-1	50
Rubber Side Wing, 8515	980728	7-4	15
Rubber, Front Lip, Center	985058	7-4	27
Safety Prop, Hopper	987264SRV	7-4	17
Scraper, Conveyor	851128SRV	7-3	33
Screed Base, 8515 Electric Slope	985547	7-34	1

Description	Part Number	Figure #	Item #
Screed Base, 8515 Electric Slope	985547	7-34	6
Screed Base, 8515 Propane Slope	982986	7-28	1
Screed, 8515 LP, 4 Adjusters Extensions	1004918	7-27	-
Screw, Electric (6.00")	851518	7-14	5
Screws	900076	7-3	39
Seal	Reference	7-49	4
Seal Kit	930070-01	7-18	-
Seal Kit	980607-02	7-2	-
Seal Kit	610110-01	7-4	-
Seal Kit, 2.00 Cylinder	851436-01	7-6	-
Seal Kit, 2.50 Cylinder	910170-01	7-6	-
Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851191-01	7-48	-
Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851191-01	7-48	-
Seal Kit, Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	981710-1	7-48	-
Seal Kit, Cyl, Hyd, 2.00 x 2.00 x 42.00 x 1.25	981710-1	7-48	-
Seal Kit, Cyl, Hyd, 2.75 x 2.00 x 1.125 Rod	983421-01	7-48	-
Seal Kit, Hopper Wing	840020-01	7-4	-
Seal Kit, Hyd. Cyl.	811331-01	7-1	21
Seal Kit, Hyd. Motor	1001027-01	7-3	-
Seal, Hyd Motor/Pump	851489A	7-1	45
Seal, Hyd Motor/Pump	851489A	7-2	25
Seat Assy W / Armrest, White	360010	7-37	3
Sending Unit, Fuel Tank	140040	7-7	8
Sensor, Ultra Sonic	982794	7-43	16
Sensor, Ultra Sonic	982794	7-44	16
Sensor, Ultrasonic, Sauer	980540	7-60	12
Sensor, Ultrasonic, Sauer	980540	7-61	12
Set Screw	850170	7-3	35
Shaft, Bumper Roller	930075	7-18	17
Shaft, Conveyor Front Idler	851124	7-3	30
Shaft, Push Bar Roller	980034	7-1	36
Shaft, Screed Ext, Chromed, HD	1006415	7-57	4
Shaft, Screed Flight Screw	1008809	7-62	20
Shaft, Screed Flight Screw	1008809	7-63	20
Shaft, Tilt Screw Swivel	980457	7-60	5
Shaft, Tilt Screw Swivel	980457	7-61	5

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Description	Part Number	Figure #	Item #
Shaft, Vibrator Eccentric	880062	7-35	8
Shaft, Vibrator Eccentric	880062	7-36	8
Shield, 8500 Center Conv.	851133	7-4	7
Shield, Front Hard Rubber	985057	7-4	12
Shield, Front Support	985669SRV	7-4	11
Side Wing Cylinder Bushing	930041	7-4	—
Sight Gauge, Hyd. Oil Temp/Level	500070	7-7	4
Skid	851249SRV	7-16	6
Sleeve, Rubber, Intake	1009253-32	7-9	38
Sleeve, Rubber, Intake	1009253-15	7-9	44
Sleeve, Rubber, Intake Reducer	1009253-25	7-9	41
Slide Plate Assy	1002181	7-38	2
Slide Plate Assy w/Chrome Rods	1002186	7-38	1
Slope Cable 5 Foot	983414-14	7-17	6
Slope Meter	851421	7-16	27
Slope Sensor	983414-13	7-17	7
Snap Ring	851256	7-38	5
Snap Ring, Conveyor Drive Shaft	850040	7-3	9
Snap Ring, Conveyor Drive Shaft	850040	7-3	27
Socket, 3/4" Drive, 1 1/2"	1007231	7-62	19
Socket, 3/4" Drive, 1 1/2"	1007231	7-63	19
Solenoid Valve, 12 Volt L.P.G.	230300	7-15	4
Sonic Tracker	851579	7-16	19
Southco Fastener	980460	7-19	14
Spacer, Crown Mnt	1006419	7-65	10
Spacer, Track Link Bushing	811310	7-1	29
Spring, Tension	851245	7-16	9
Sprocket	986641	7-24	8
Sprocket, #50 Roller Chain	1000799	7-65	11
Sprocket, 800/8500 Auger	860030	7-5	3
Sprocket, Conveyor Drive Motor	851120	7-3	22
Sprocket, Conveyor Drive Motor	851120	7-6	5
Sprocket, Inner Drive C-188	850030	7-3	6
Sprocket, Outer Dr. C-188	851474SRV	7-3	5
Sprocket, Outer Drive	851473	7-3	3
Sprocket, Track Drive	1006737	7-1	5

Description	Part Number	Figure #	Item #
Sprocket, Track Drive, 17 Tooth	1009464	7-2	5
Starter, Kub, Tier3, V3600tb	1001166-03	7-9	8
Steering Wheel, Control Box, Plus One	1000708	7-8	9
Stop Rubber, (Scraper)	410070	7-3	34
Strainer & Gasket Kit	140030GK	7-47	-
Strainer & Gasket Kit	140030GK	7-64	-
Strainer & Gasket Kit	140030GK	7-7	3
Strike Off, Left Side, 12"	860091LSRV	7-20	1
Strike Off, Left Side, 24"	860095LSRV	7-20	1
Strike Off, Right Side, 12"	860091RSRV	7-20	2
Strike Off, Right Side, 24"	860095RSRV	7-20	2
Support, Dash Assy	987850	7-19	27
Support, Elite III Dash	854592	7-19	26
Support, Pivot Bar	930015	7-18	1
Support, Seat H/D	920024SRV	7-37	5
Switch, Battery Disconnect	SW29	7-19	31
Switch, Limit Spdt	72026-01	7-8	-
Switch, Push Button	982249	7-23	16
Switch, Push Button	982249	7-47	4
Switch, Push Button	982249	7-64	4
Switch, Toggle	851390	7-23	1
Switch, Toggle	900030	7-23	2
Switch, Toggle	900080	7-23	3
Switch, Toggle	851392	7-23	5
Switch, Toggle	500040	7-23	15
Switch, Toggle	500040	7-23	17
Switch, Toggle	851393	7-23	18
Switch, Toggle	500040	7-23	19
Switch, Toggle	851393	7-45	1
Switch, Toggle	900030	7-45	2
Switch, Toggle	900030	7-45	3
Switch, Toggle	851393	7-46	1
Switch, Toggle	900030	7-46	2
Switch, Toggle	900030	7-46	3
Switch, Toggle, Auto Conveyor	900030	7-62	10
Switch, Toggle, Auto Conveyor	900030	7-62	11

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Switch, Toggle, Auto Conveyor	900030	7-63	10
Switch, Toggle, Auto Conveyor	900030	7-63	11
Switch, Toggle, Conveyor Lift	851393	7-62	12
Switch, Toggle, Conveyor Lift	851393	7-63	12
Switch, Toggle, SPST, 2-POS	851391	7-23	4
Switch, Toggle, SPST, 2-POS	851391	7-47	5
Switch, Toggle, SPST, 2-POS	851391	7-8	-
Switch, Toggle, Spst, 2-Pos	851391	7-64	5
Switch, Toggle, Spst, 2-Pos, Mom	72884	7-65	21
Switch, Ignition, W/Heat St Kubota	39146-14	7-23	11
Tab, Conveyor Chain Weld On	851118-2	7-3	-
Tail Pipe, 8515C Tier 4i	1009253-11	7-9	37
Tee, .250 Street	230081	7-15	9
Tee, .375	920222	7-13	3
Term. Battery, POS. Remote Mount	985518	7-19	32
Thermal Heat Shield	1009253-22	7-9	7
Thumb Screw, .375-16 x 1.00	920070	7-16	3
Thumb Screw, .375-16 x 1.00	920070	7-17	12
Thumb Screw, .375-16 x 1.00	920070	7-4	26
Tilt Screw, Endgate Assy	890081SRV	7-61	6
Tilt Screw, Endgate Assy	890081SRV	7-60	6
Tilt Screw, Jointer Assy	890081SRV	7-43	12
Tilt Screw, Jointer Assy	890081SRV	7-44	12
Timer, Elec	985142	7-47	6
Timer, Elec	985142	7-64	6
Toeboard, Driver Side	987621	7-19	1
Toeboard, Pass. Side	987616	7-19	2
Tongued Washer 121ID X 186OD	20931333	7-62	23
Tongued Washer 121ID X 186OD	20931333	7-63	23
Tool Box	851169	7-37	6
Top Rail, 8500 Screed Ext	855784	7-27	11
Top Rail, 8500 Screed Ext	855784	7-33	11
Torque Hub, 47.6:1, w/Brake	1008779	7-1	4
Torque Hub, 47.6:1, w/Brake	1008779	7-2	4
T-Pin, Casted Conveyor Chain	850100A	7-3	-
Track Assy, Cast	851101	7-1	-

Description	Part Number	Figure #	Item #
Track Assy, One Side	983166	7-2	—
Track Assy, One Side, w/Poly Pads	851101P	7-1	2
Track Pad, Poly	851104	7-1	22
Track Pad, Poly, Heavy Duty	983166-02	7-2	27
Track Roller, B/1	851566	7-1	9
Track Roller, B/1	851566	7-2	8
Track Roller, B/O	811326	7-1	12
Track Roller, B-1, Inner Flange	983588	7-2	14
Track, Rubber, Continuous	982585	7-2	12
Truck Hitch Assy	1000253SRV	7-18	—
TSD 3 Conn SS Paver Box	983414-02	7-17	4
TSD Sonic Tracker II	983414-01	7-17	2
Tube Assy, Conveyor Rear Drive	851651	7-3	32
Tube Assy. Conveyor Front Chain Guide	851123	7-3	29
Umbrella	920235	7-37	—
Universal Joint	21426507	7-62	6
Universal Joint	21426507	7-63	6
Valve Truck Hitch	852250	7-18	—
Valve, Cartridge SV12	983644-02	7-22	2a
Valve, Cartridge SV12	983644-02	7-22	2b
Valve, Cartridge SV12	983644-02	7-22	2c
Valve, Cartridge SV12	983644-02	7-22	2d
Valve, Cartridge SV12	983644-02	7-22	2e
Valve, Cartridge SV16	986992-01	7-49	—
Valve, Cartridge SVO8	983643-04	7-21	4
Valve, Check	986992-07	7-49	—
Valve, Check CV04	983643-08	7-21	.
Valve, Check CV10	986992-03	7-49	—
Valve, Check CVO8	983643-09	7-21	9
Valve, Directional Solenoid	983643-01	7-21	1
Valve, Piloted Logic Element	983643-06	7-21	6
Valve, Relief RV10	983644-03	7-22	3a
Valve, Relief RV10	983644-03	7-22	3b
Valve, Relief RV-10	986992-02	7-49	—
Valve, Relief RVO8	983643-07	7-21	7
Valve, Relief, Conveyor Manifold (HPS)	851628A-3	7-7	16

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Valve, Selector (Cutoff)	1008544	7-15	11
Valve, Solenoid 2 Speed	900140	7-21	—
Valve, Solenoid, 2 Speed	900140	7-22	4
Vibrator Housing, LH	982965L-1	7-35	2
Vibrator Housing, RH	982965R-1	7-36	2
Vibrator, Hydraulic	1000059	7-65	20
Walk Board Brkt	985163	7-37	2
Walkboard, Ass'y-Long	987056SRV	7-56	1
Washer, Counter Sunk, .500	851112	7-18	18
Washer, Counter Sunk, .500	851112	7-3	2
Washer, Fender (.250)	860036	7-6	26
Washer, Fender .375	119-3	7-14	17
Washer, Fender, .375 x 1.50	981511	7-5	38
Washer, Flat, SAE, .375	119-3	7-4	39
Washer, Flat, SAE, .500	119-5	7-38	7
Washer, Flat, SAE, .625	81201	7-1	6
Washer, Flat, SAE, .625	119-7	7-16	16
Washer, Flat, SAE, .625	119-7	7-16	26
Washer, Flat, SAE, .625	119-7	7-17	16
Washer, Flat, SAE, .625	119-7	7-17	18
Washer, Flat, SAE, .625	81201	7-2	16
Washer, Flat, SAE, 1.00	119-10	7-4	6
Washer, Flat, USS, .438	120-4	7-5	25
Washer, Flat, USS, .500	120-5	7-5	33
Washer, Flat, USS, .625	120-7	7-5	32
Washer, Flat, Uss, .625	80146	7-4	-
Washer, Lock	900077	7-3	40
Washer, Lock, .250	118-1	7-31	18
Washer, Lock, .250	118-1	7-32	18
Washer, Lock, .250	118-1	7-41	18
Washer, Lock, .250	118-1	7-42	18
Washer, Lock, .250	118-1	7-6	25
Washer, Lock, .312	118-2	7-5	27
Washer, Lock, .312	118-2	7-53	27
Washer, Lock, .312	118-2	7-54	21
Washer, Lock, .312	118-2	7-54	23

Description	Part Number	Figure #	Item #
Washer, Lock, .312	118-2	7-54	25
Washer, Lock, .312	118-2	7-59	32
Washer, Lock, .312	118-2	7-64	16
Washer, Lock, .312	118-2	7-53	25
Washer, Lock, .312	118-2	7-53	29
Washer, Lock, .312	118-2	7-55	12
Washer, Lock, .312	118-2	7-58	20
Washer, Lock, .312	118-2	7-58	30
Washer, Lock, .312	118-2	7-58	32
Washer, Lock, .312	118-2	7-59	20
Washer, Lock, .312	118-2	7-59	30
Washer, Lock, .375	118-3	7-27	17
Washer, Lock, .375	118-3	7-28	22
Washer, Lock, .375	118-3	7-29	13
Washer, Lock, .375	118-3	7-30	13
Washer, Lock, .375	118-3	7-33	17
Washer, Lock, .375	118-3	7-34	22
Washer, Lock, .375	118-3	7-39	13
Washer, Lock, .375	118-3	7-40	13
Washer, Lock, .375	118-3	7-5	29
Washer, Lock, .375	118-3	7-58	22
Washer, Lock, .375	118-3	7-6	10
Washer, Lock, .375	118-3	7-7	15
Washer, Lock, .375	118-3	7-58	27
Washer, Lock, .375	118-3	7-58	34
Washer, Lock, .375	118-3	7-59	22
Washer, Lock, .375	118-3	7-59	27
Washer, Lock, .375	118-3	7-59	34
Washer, Lock, .375	118-3	7-62	15
Washer, Lock, .375	118-3	7-63	15
Washer, Lock, .375	118-3	7-65	13
Washer, Lock, .437	118-4	7-53	32
Washer, Lock, .437	118-4	7-54	28
Washer, Lock, .437	118-4	7-58	24
Washer, Lock, .437	118-4	7-59	24
Washer, Lock, .500	118-5	7-1	48

Illustrated Parts List (IPL)



Description	Part Number	Figure #	Item #
Washer, Lock, .500	118-5	7-2	24
Washer, Lock, .500	118-5	7-3	11
Washer, Lock, .500	118-5	7-38	8
Washer, Lock, .500	118-5	7-4	38
Washer, Lock, .500	80164	7-43	9
Washer, Lock, .500	118-5	7-44	9
Washer, Lock, .500	118-5	7-5	22
Washer, Lock, .500	118-5	7-5	24
Washer, Lock, .500	118-5	7-55	14
Washer, Lock, .500	118-5	7-56	4
Washer, Lock, .500	118-5	7-65	15
Washer, Lock, .500	118-5	7-65	18
Washer, Lock, .625	118-7	7-3	25
Washer, Lock, .625	118-7	7-4	36
Washer, Lock, .625	118-7	7-5	31
Washer, Lock, .625	118-7	7-55	10
Washer, Lock, .625	118-7	7-6	19
Washer, Lock, .625	118-7	7-64	13
Washer, Lock, 1.00	118-10	7-6	13
Washer, Lock, 375	118-3	7-60	18
Washer, Lock, 375	118-3	7-61	18
Washer, Lock, 437	118-4	7-60	22
Washer, Lock, 437	118-4	7-61	22
Washer, Lock, 500	118-5	7-60	14
Washer, Lock, 500	118-5	7-61	14
Washer, Lock, M10	320142	7-2	21
Washer, Lock, M12	811328	7-1	10
Washer, Lock, M12	811328	7-2	18
Washer, Lock, SAE, .375	119-4	7-31	17
Washer, Lock, SAE, .375	119-4	7-32	17
Washer, Lock, SAE, .375	119-4	7-41	17
Washer, Lock, SAE, .375	119-4	7-42	17
Water Tight Conn, 3/4" X 3/4"	3400DI	7-65	-
Wear Plate Assy, Electric	987216SRV	7-33	7
Wear Plate Assy, Electric	987216SRV	7-34	13
Wear Plate, 8' Bullnose	981724SRV	7-27	7

Description	Part Number	Figure #	Item #
Wear Plate, 8' Bullnose	981724SRV	7-28	13
Wear Plate, End Gate, 8515	982963SRV	7-44	7
Wearplate, 3/8" Wear Plate With Studs	1007089SRV	7-53	12
Wearplate, 3/8" Wear Plate With Studs	1007089SRV	7-54	9
Weldment Undercarriage, Rubber Track, LH	1009465	7-2	7
Weldment Undercarriage, Rubber Track, RH	1009466	7-2	6
Weldment, Air Breather Mount	1011395	7-19	6
Weldment, Extension Vibrator Cover	1008664	7-59	9
Weldment, Heatbox Cover	1008665	7-58	2
Weldment, Heatbox Cover	1008665	7-59	2
Assembly, Side Access Door, LH	1011029	7-19	17
Weldment, Power Crown Center	1008667	7-65	2
Weldment, Rail Mount, LH	1008663	7-53	13
Weldment, Rail Mount, LH	1008663	7-54	10
Weldment, Rail Mount, RH	1008662	7-53	14
Weldment, Rail Mount, RH	1008662	7-54	11
Weldment, Undercarriage LH, Comer	1008788	7-1	15
Weldment, Undercarriage RH, Comer	1008789	7-1	-
Weldment, Extension Vibrator Cover	1008664	7-58	9
Wire Bail, Temperature	851581	7-16	20
Wiring, Element, Heater Pigtail	985699-03	7-33	9a
Wiring, Element, Heater Pigtail	985699-03	7-34	12a
Wiring, Element, Heater Pigtail	985699-03	7-39	9a
Wiring, Element, Heater Pigtail	985699-03	7-40	9a
Wiring, Element, Heater Pigtail	985699-03	7-41	11a
Wiring, Element, Heater Pigtail	985699-03	7-42	11a
Yoke, Track Idler	811329A	7-1	17
Yoke, Track Idler	811329A	7-2	10



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