LeeBoy

VT LeeBoy
A company of VT Systems

OPERATIONS, MAINTENANCE AND PARTS MANUAL

9000 PAVER

Manual No. _____

10-2009

LeeBoy

DISCLAIMER AND COPYRIGHT

Disclaimer:

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

Section 1
INTRODUCTION

Thank you for purchasing the LeeBoy Model 9000 Paver. We wish you many years of safe and productive 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. Reading the manual will help you and others avoid personal injury and help prevent any damage to the paver. If this manual becomes lost or damaged, contact an authorized LeeBoy Dealer immediately to order a replacement. See *CONTACT INFORMATION on page 3-3*.

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

Safety. Refer to Section 2 for important safety guidelines information.

General Information. Refer to Section 3 for important warranty, contact and Paver Nameplate information.

Specifications. Refer to Section 4 for all major system specifications and typical torque value tables.

Component Location. Refer to Section 5 for paver overview of controls and major components.

Operation. Refer to Section 6 for control functionality and normal paver operation.

Maintenance. Refer to Section 7 for basic preventive maintenance and repair procedures.

Troubleshooting. Refer to Section 8 for problem descriptions and recommended solution tables.

Electrical. Refer to Section 9 for schematic diagrams of electrical wiring.

Illustrated Parts List. Refer to Section 10 for illustrations, descriptions and part numbers of available service parts.

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.

NOTES

Section 2
SAFETY

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 this 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 and in Section 1 will help ensure your safety, the safety of those around you and the LeeBoy Model 9000 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.

⚠ 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 paver, personal property and/or the environment, or cause the 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

⚠ CAUTION

The safety messages that follow have CAUTION level hazards.

Pre-Operation Hazard

- Never permit anyone to install or operate the paver without proper training.

- Read and understand this Operation Manual before operating or servicing the engine to ensure that safe operating practices and maintenance procedures are followed.
- Safety signs and labels are additional reminders for safe operating and maintenance techniques.
- Contact LeeBoy or a LeeBoy sales service agency 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.

⚠ WARNING

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 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 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 paver before starting the engine. Sound the horn as a warning before starting the engine.

- Always stop the engine before beginning service.
- 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.
- 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 paver.
- 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 operator’s 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 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 engine surfaces become very hot during operation and shortly after shutdown.
- Keep hands and other body parts away from hot engine surfaces.
- Handle hot components with heat-resistant gloves.

Electrical Shock Hazard

Always turn the battery disconnect switch to the OFF position when servicing the electrical system.

⚠ CAUTION

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 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 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.

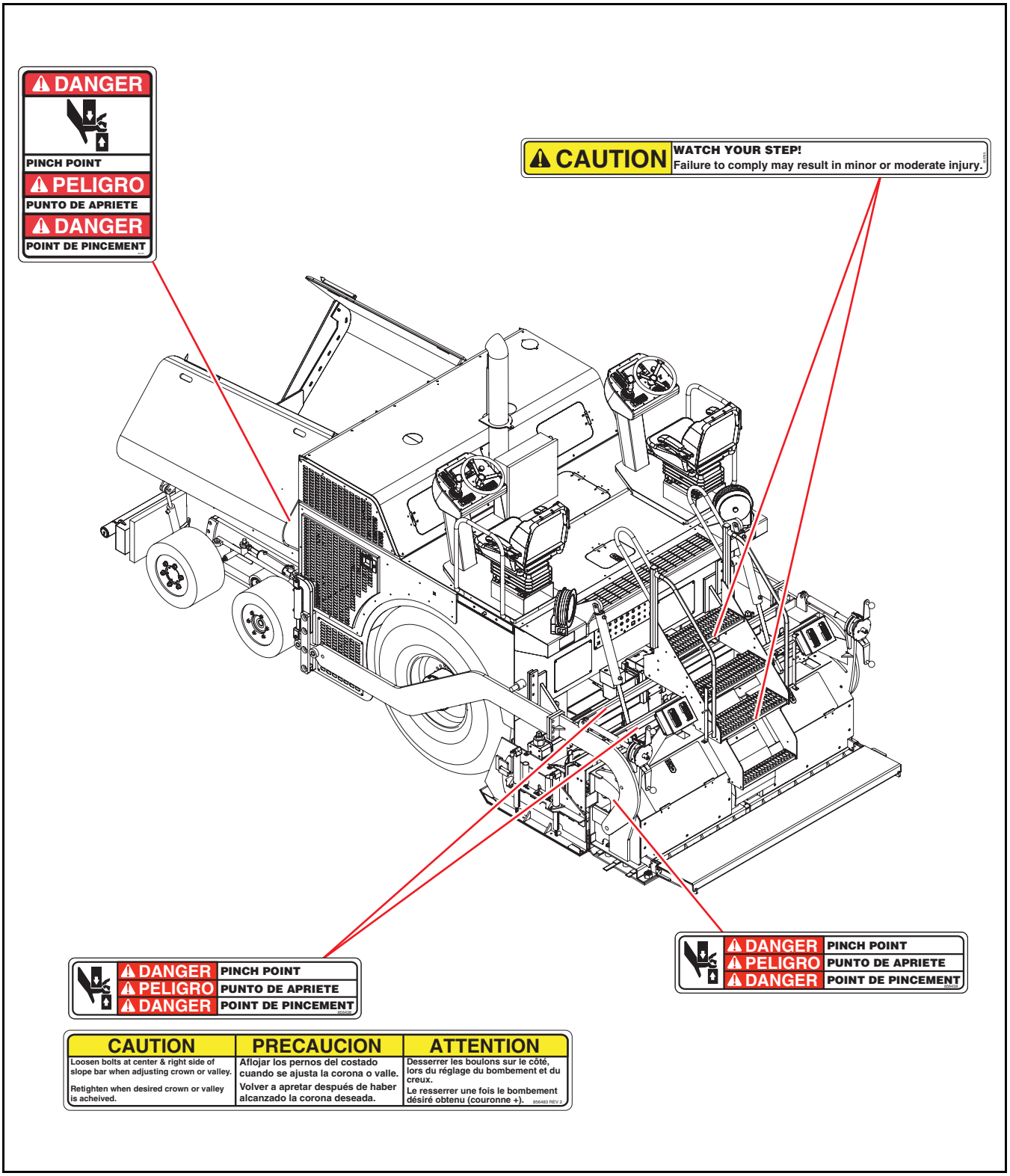
Clean all accumulated dirt and debris away from the body of the paver and its components before you inspect the paver or perform preventive maintenance procedures or repairs. Operating a paver with accumulated dirt and debris will cause premature wear of paver components. Accumulated dirt and debris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

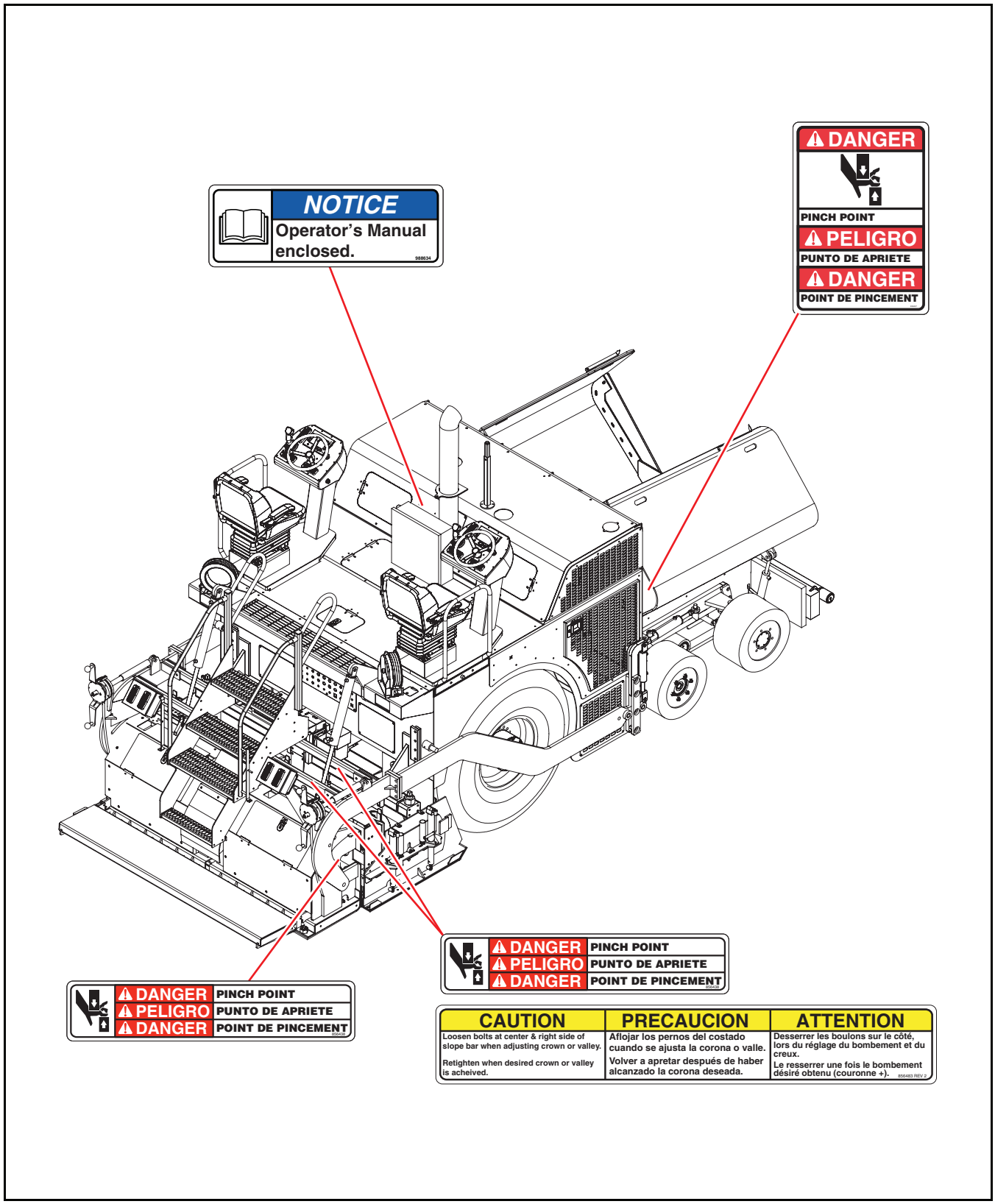
If any alert indicator illuminates during paver operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the paver.

LOCATION OF SAFETY LABELS



Left Side Safety Labels and Safety Label Locations

Figure 2-1



Right Side Safety Labels and Safety Label Locations

Figure 2-2

Section 3

GENERAL INFORMATION

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.
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 transferrable.
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 paver.
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 additional information about LeeBoy, please visit our website at www.leeboy.com or contact your local authorized LeeBoy Dealer. Record dealer information in the space provided.

Sales Representative _____

Dealership Name _____

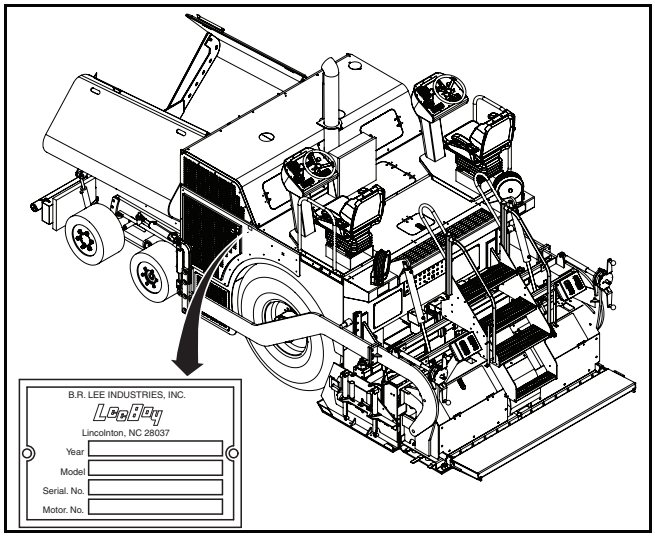
Dealership Address _____

Dealership Phone _____

NAMEPLATES

Paver Nameplate

The LeeBoy Model 9000 Paver nameplate **(Figure 3-1)** contains the specific model number and serial number used to identify the paver for any parts or service information. It also contains the engine number. Look in the engine owner's manual to find the specific location of the engine nameplate for your engine.



Paver Nameplate Location

Figure 3-1

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 _____

Engine Model Number _____

Engine Serial Number _____

Date of Purchase _____

NOTES

Section 4
SPECIFICATIONS

Table 4-1. Engine

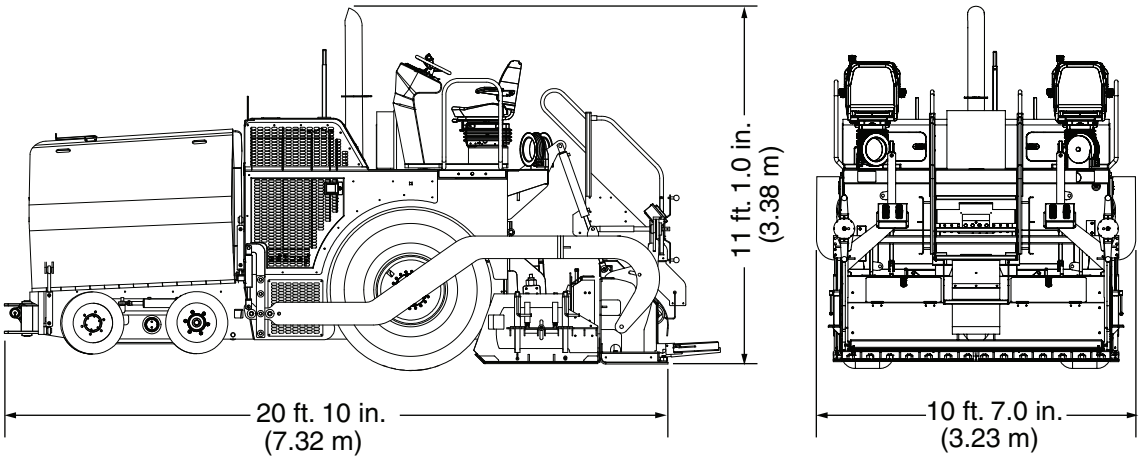
ITEM	SPECIFICATION
Model:	Caterpillar Industrial Engine C6.6 ACERT™
Type:	173 HP (129 kW) CAT Electric Tier 3 Turbocharged Aftercooled. I-6, 4-Stroke-Cycle Diesel
Bore & Stroke:	4.13 in. x 5.00 in. (105 mm x 127 mm)
Displacement:	402 cu in. (6.6 L)
Engine Oil:	10W-40
Capacity:	16.5 qt (15.6 L)
Cooling System:	Water
Fuel Type:	Diesel
Fuel Capacity:	82 gal (310 L)
Fuel Filter Type:	CAT

Table 4-2. Electrical

ITEM	SPECIFICATION
Battery Number Per Paver:	1 Maintenance Free
Ampere Hour Rating:	1000 CCA
Voltage:	12V
Alternator Voltage:	12V, Negative Ground
Output Amperage:	100 Amps
Starter Manufacturer:	Denson
Voltage and Type:	12V, Negative Ground
Rating:	3.0 kW
Alternator:	20 kW
Alternator Manufacturer:	Denson

Table 4-3. Dimensions

ITEM	SPECIFICATION
Overall Length:	20 ft 10 in. (7.32 m)
Height:	11 ft 1 in. (3.38 m) to Beacon, 10 ft 3 in. (3.12 m) to Stack, 9 ft 2 in. (2.79 m) to Steering Wheel
Width, Hoppers In:	8 ft 6 in. (2.50 m)
Width, Hoppers Down:	10 ft 7 in. (3.23 m)
Weight:	33,000 lb (11,338 kg)



9000 Paver Dimensions

Figure 4-1

Table 4-4. Performance

ITEM	SPECIFICATION
Travel Speed:	0 to 15 mph (0 to 24.1 km/h)
Paving:	0 to 250 ft/min (0 to 76.2 m/min)
Coverage:	8 ft to 15 ft 6 in. (2.44 m to 4.72 m)

Table 4-5. System Capacity

ITEM	SPECIFICATION
Fuel:	82 gal (310 L)
Engine Lube Oil:	16.5 qt (81.4 L)
Hydraulic Oil Reserve:	62 gal (235 L)
Torque Hubs:	94 oz (2.78 L) Each

Table 4-6. Screed

ITEM	SPECIFICATION
Heat:	6 Electric Heat Strips (3412 BTU/HR) on Main Screed 1 per ext. (3412 BTU/HR) (1000 W @ 220 V)
Extensions:	2 - 46 in. Hydraulic Operated
Vibration:	2 - 3400 vibes/min on main screed 1 per ext. (7,400 vibes/min)
Crown/Valley:	Power Crown, +2 to -2, Level Indicator

Table 4-7. Washdown System

ITEM	SPECIFICATION
Components:	Hydraulic Pump with 2 Reels with 15 ft x 5/16 in. (4.57 m x 7.94 mm) Hose
Citrus Wash-down:	17 gal (64.6 L)

Table 4-8. Hydraulic System

ITEM	SPECIFICATION
Drives and Conveyor/Auger:	Variable Volume Hydraulic Proportional Pump for Each
Fumes and Vibrator:	Constant Volume Pump
Hydraulic Oil Reservoir w/ Oil Cooler:	62 gal (235 L)

Table 4-9. Paver Hydraulic Pressures

ITEM	SPECIFICATION
Drive:	5000 PSI (34,474 kPa)
Conveyors/Auger:	5000 PSI (34,474 kPa)
Cylinders:	2900 PSI (19,995 kPa)
Vibrator/Blower:	2900 PSI (19,995 kPa)
Charge Pressure:	300 PSI (2068 kPa)

Table 4-10. Lubricant Types

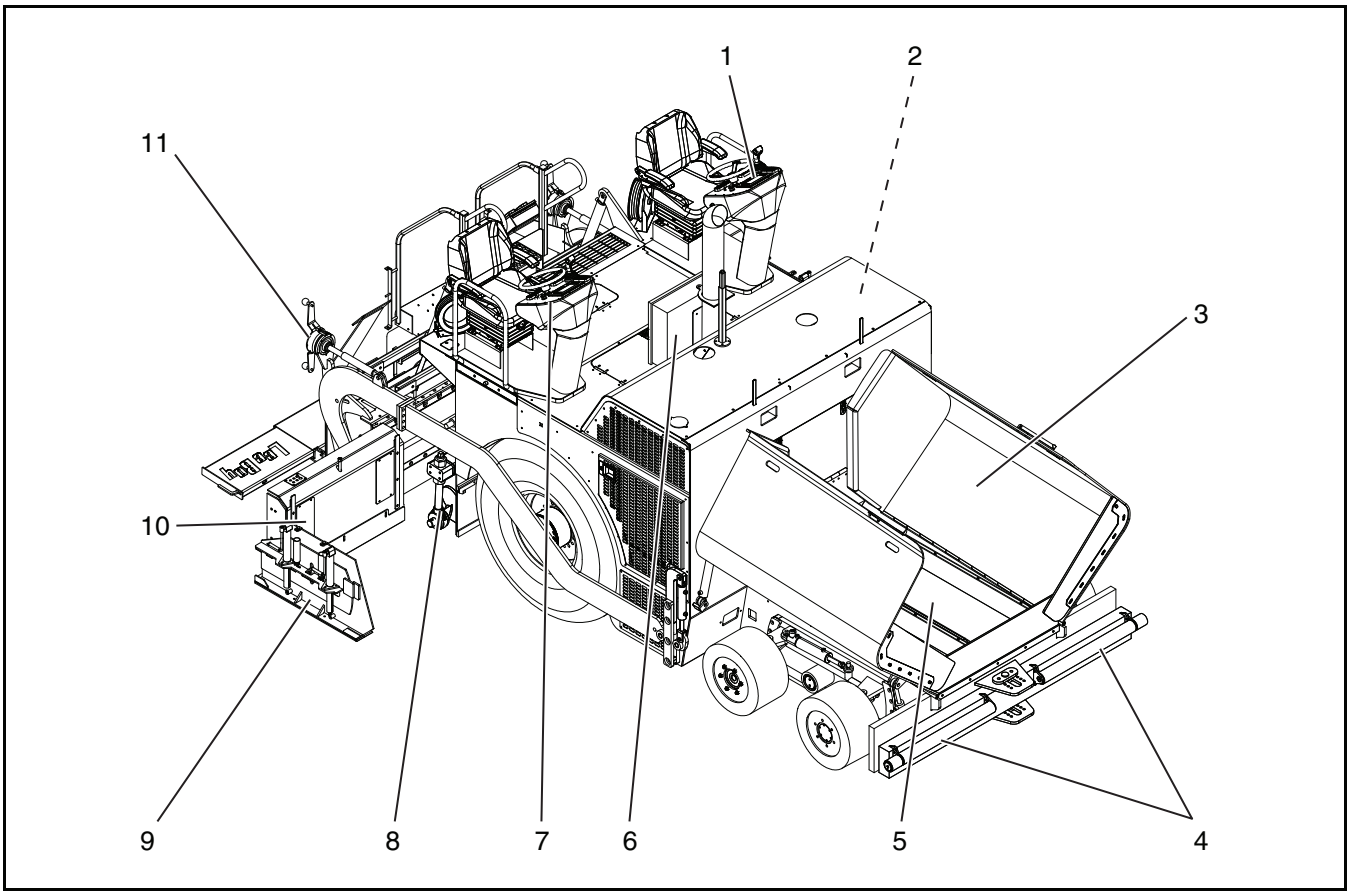
ITEM	SPECIFICATION
Engine Oil:	10W-40
Hydraulic Oil:	AW All Temp Hydraulic Oil
Torque Hub Grease:	90 WT Gear Lube
Grease:	Shell Avania EP Grease or Equivalent
Chains:	Chain Lube

NOTES

Section 5

COMPONENT LOCATION

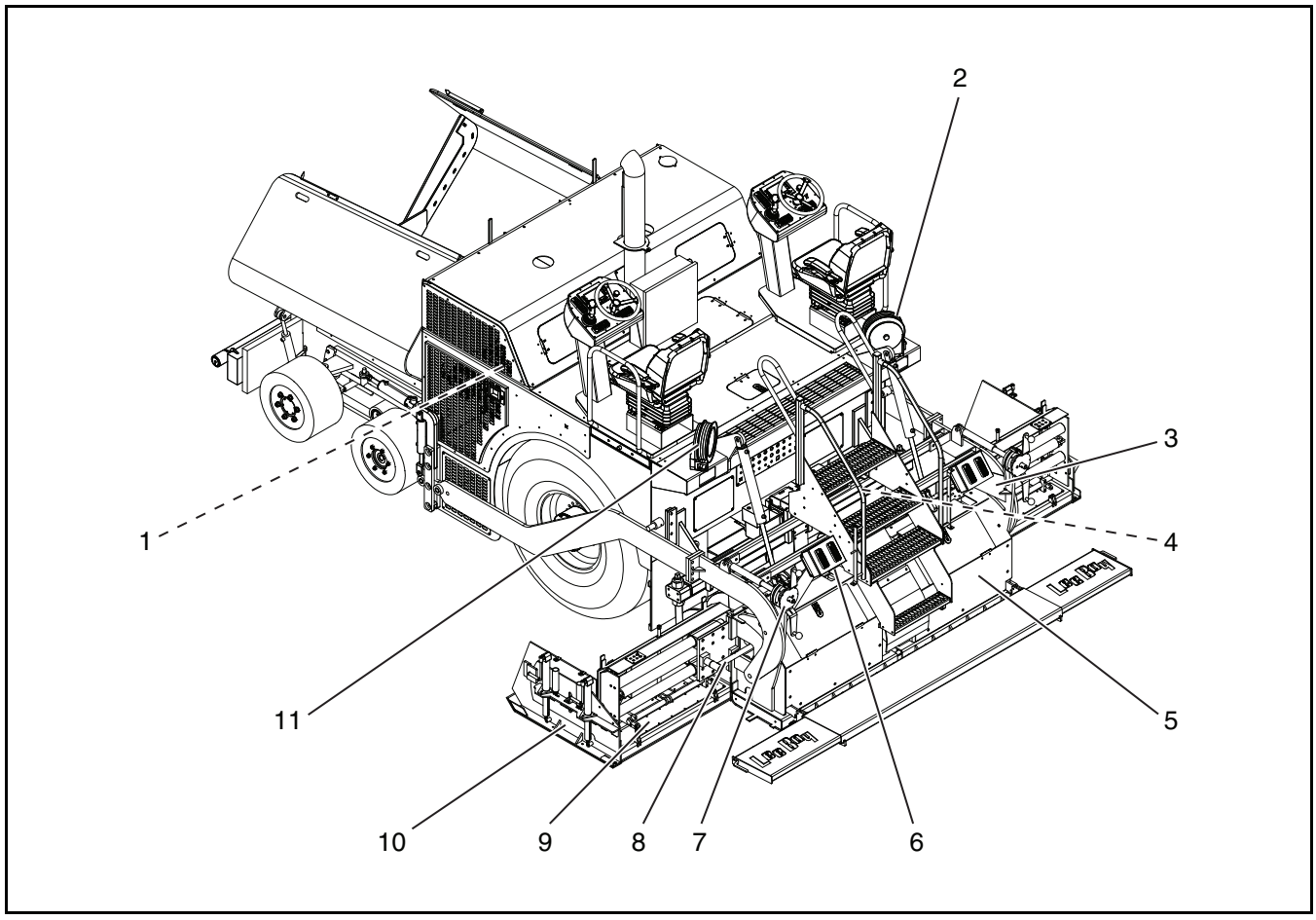
PAVER COMPONENT LOCATIONS



Right Three Quarter View

Figure 5-1

1 – Left Upper Control Panel
2 – Hydraulic Pumps
3 – Hopper
4 – Truck Rollers
5 – Conveyors
6 – Fuse/Relay Panel
7 – Right Upper Control Panel
8 – Right Auger
9 – Right End Gate
10 – Right Sonic Auger Sensor
11 – Right Flight Screw



Left Three Quarter View

Figure 5-2

1 – Battery Disconnect Switch
2 – Right Spray Down Hose
3 – Right Lower Keypad
4 – Screed Heater Control Box
5 – Main Screed
6 – Left Lower Keypad
7 – Left Flight Screw
8 – Left Auxiliary Extension
9 – Left Main Extension
10 – Left End Gate
11 – Left Spray Down Hose

Section 6
OPERATION

Before operating the LeeBoy Model 9000 Paver, read the following safety information and review *SAFETY on page 2-1*.

⚠ 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 9000 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.

DESCRIPTION OF OPERATION

The LeeBoy Model 9000 Paver has hydrostatic rear rubber tires and two sets of solid front tires. The front tires propel the paver. The hydrostatic assist feature can be engaged by the operator using a friction-controlled joystick. The friction-controlled joystick controls the speed of the paver in conjunction with a maximum speed setting. The direction of the paver is controlled by using a friction-held steering wheel sensor. Multiple key pads positioned on the paver allow the operators to control all paving functions.

The operator can operate the paver from two identical control stations. Left and right sides are determined by sitting in the normal operation position facing straight ahead in the forward direction of travel.

Propel System

The propel system utilizes a dual path proportional system to control the rear tires. In low speed, the inside tire will be allowed to come to a complete stop. In high speed, the inside tire will not be allowed to come to a complete stop.

Front Wheel Assist

The front wheel assist is powered by a single pressure comp pump. Displacement of pump is based on paver commanded speed plus an additional amount to provide positive front wheel pull. Aggressiveness of the front wheel assist is controlled by external fixed pressure control. The front wheel assist functions in the forward direction only. The front wheel assist will automatically be disabled when the paver is operating at high speed or the reverse direction.

Steering

Steering of the front tires is controlled by a hydraulic proportional valve. The amount of steering is controlled by the amount of steering wheel turn and the speed of the paver. As the paver speed increases, the amount of steering will be reduced. The hydraulic proportional valve receives feedback of the steering position by means of a steering cylinder with a feedback sensor.

DISPLAY UNIT

The display unit is pre-loaded with the software to operate the LeeBoy Model 9000 Paver. The display unit functions as a master unit that gathers operating information. It displays service information and settings when needed. During normal operation, the unit will display the ENGINE screen that contains engine information.

STARTUP Screen

The STARTUP screen will appear when the LeeBoy Model 9000 Paver is started. Listed at the bottom of the STARTUP screen is the version of operating software installed in the unit. The STARTUP screen will flash when it first appears, then the ENGINE screen will appear.

Figure 6-1

ENGINE Screen

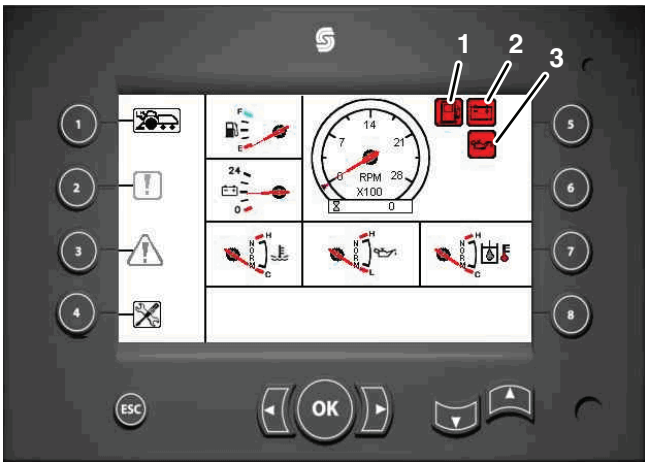


Figure 6-2

The ENGINE screen displays engine information. Items displayed on the ENGINE screen are:

- Fuel Gauge - Indicates the amount of fuel in the tank
- Voltmeter - Indicates battery voltage
- Water Temperature Gauge - Indicates engine coolant temperature
- Oil Pressure Gauge - Indicates engine oil pressure
- Hydraulic Oil Temperature - Indicates hydraulic system oil temperature
- Tachometer - Indicates engine speed

The three red icons displayed beside the tachometer will illuminate to alert the operator when the fuel level is low **(Figure 6-2, 1)**, there is a problem with the battery voltage **(Figure 6-2, 2)** or there is a problem with the engine oil pressure **(Figure 6-2, 3)**.

Using the four buttons on the left side of the screen, the operator can review other display unit screens, such as:

- Button 1 - PAVER screen
- Button 2 - SYSTEM FAULTS Screen
- Button 3 - ENGINE FAULT Screen
- Button 4 - SETUP Screen

To review another screen, press the appropriate button.

If a fault occurs during operation, the “EXCLAMATION POINT” icon (Button 2) will flash. Press Button 2 to review fault information.

PAVER Screen

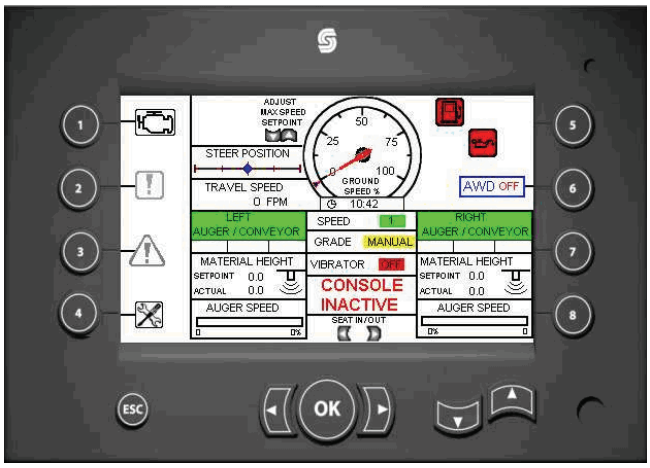


Figure 6-3

The PAVER screen displays the status of LeeBoy Model 9000 Paver functions, maximum ground speed setting, steering position and whether a console is active, inactive or paused. The fuel level and engine oil pressure warning icons are also displayed.

The ground speed limit can be changed from this screen. To increase the ground speed limit, press the UP arrow.

FAULT Screens

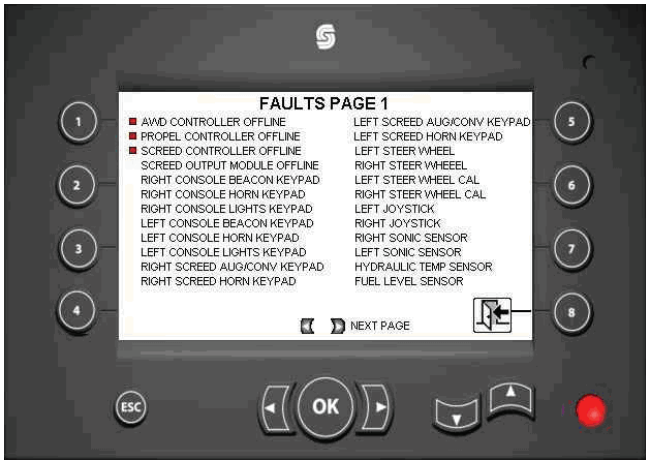


Figure 6-4

The FAULT screens are used to inform the operator that a particular problem exists. A red box indicates a fault has been detected with that particular component.

- Output Fault - The output is on and no current is measured (open or short circuit).
- Input Sensor Fault - The sensor voltage is outside acceptable limits.
- Input Sensor Cal - The sensor has not been calibrated.
- Controller Offline - No CAN communication with controller
- Keypad Faults - Indicates a loss of CAN communications

Use the RIGHT/LEFT arrows to scroll through the fault pages. To exit the screen, press Button 8.

Refer to *TROUBLESHOOTING on page 8-1* for additional information.

SETUP Screens

Figure 6-5

Use the SETUP screens to access the following setup functions:

- Button 1 - Steering Wheel Optimize Screen
- Button 2 - Steer Cylinder Position Sensor Calibration Screen
- Button 3 - Propel Threshold and Straight Track Screen
- Button 7 - Clock Set Screen
- Button 4 - Help Screen

Press the button once to bring up the instructions.

Use the LEFT and RIGHT arrows to scroll through the HELP screens.

Press Button 8 to exit the SETUP screens.

STEERING WHEEL OPTIMIZE Screen

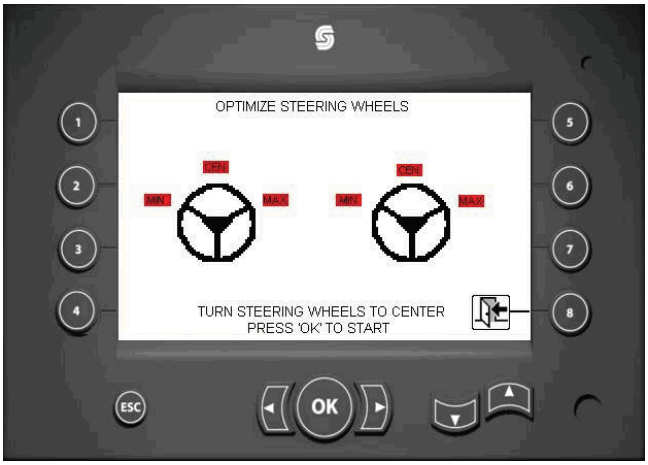


Figure 6-6

Press the OK button to reset the steering wheel calibration values.

Press Button 5 to reset the steering feedback sensor.

Press Button 8 to exit the STEERING WHEEL OPTIMIZE screen.

STEER CYLINDER SENSOR CALIBRATION Screen

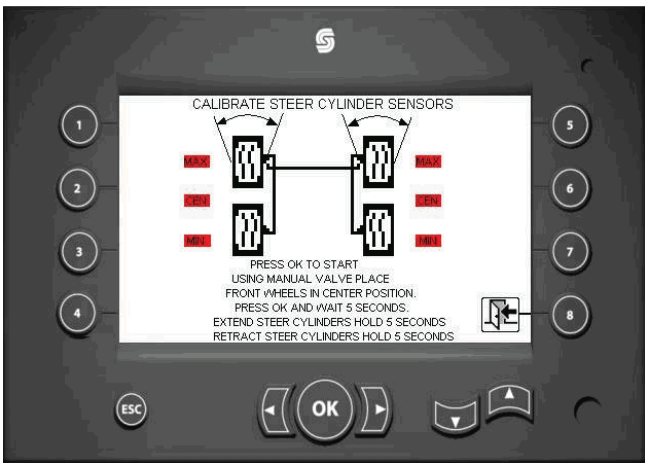


Figure 6-7

Press the OK button to reset the steer cylinder sensor calibration.

Press Button 8 to exit the STEER CYLINDER SENSOR CALIBRATION screen.

PROPEL CALIBRATION Screen

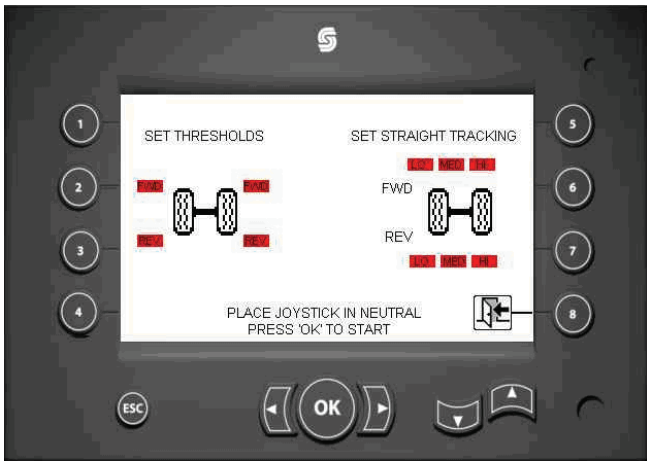


Figure 6-8

Press the OK button to reset the threshold and straight track calibration values.

Press Button 8 to exit the PROPEL CALIBRATION screen.

CLOCK SET Screen

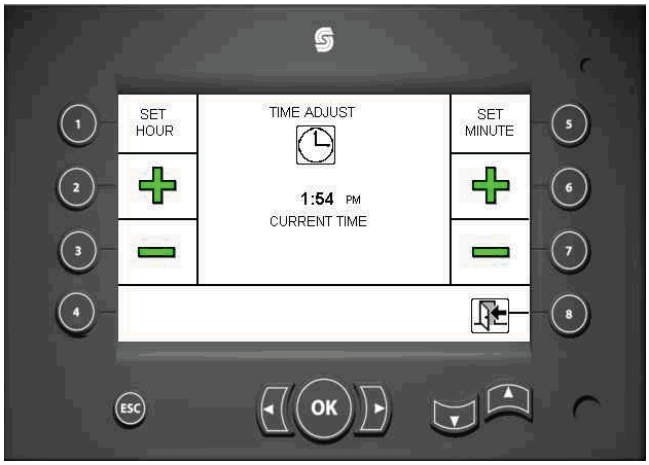


Figure 6-9

Use the following buttons to set the clock:

- Button 2 - Increases the hour setting
- Button 3 - Decreases the hour setting
- Button 6 - Increases the minute setting
- Button 7 - Decreases the minute setting

Press Button 8 to exit the CLOCK SET screen.

INSTRUMENT PANEL

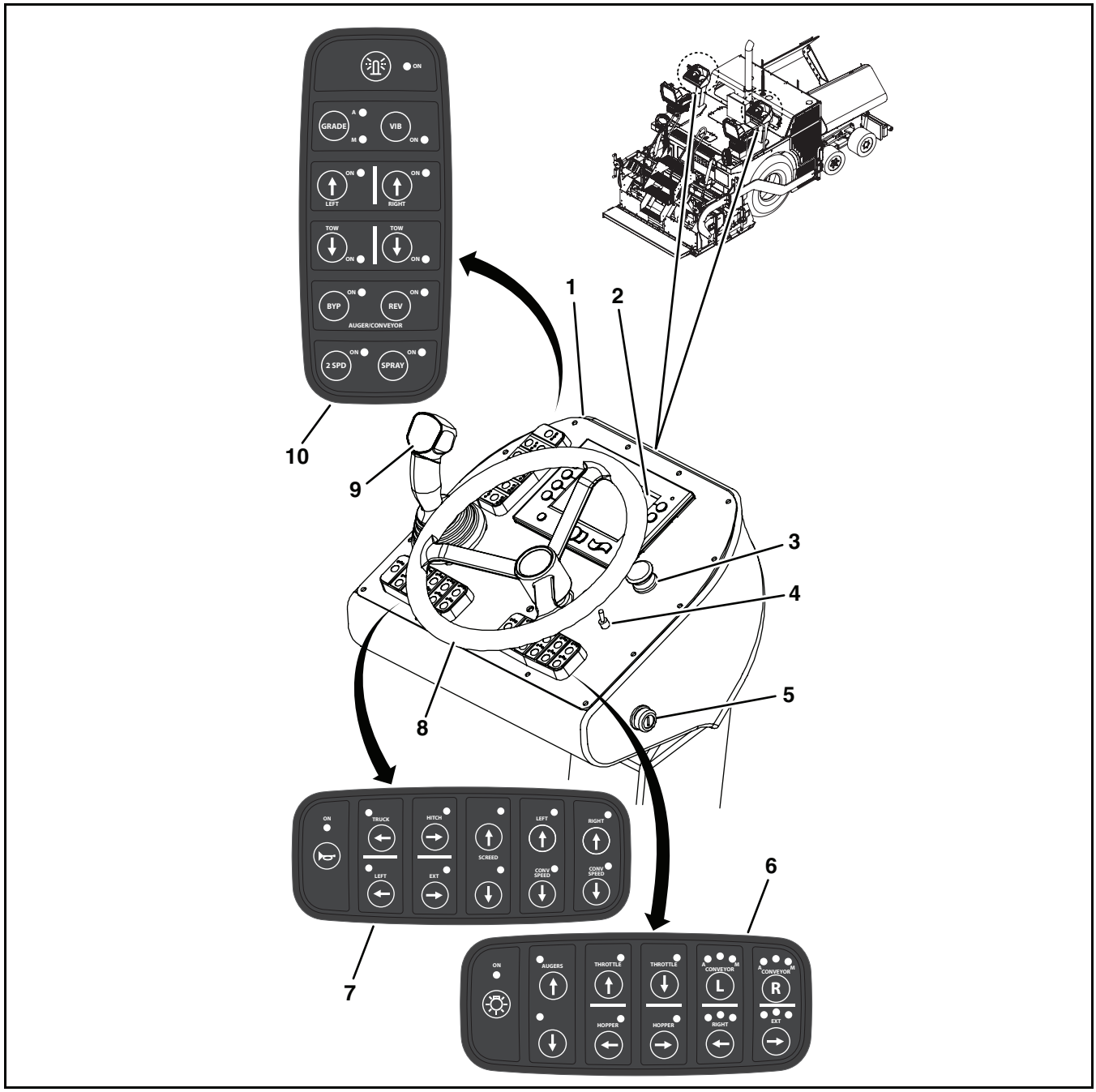


Figure 6-10

1 – Upper Control Panel
2 – Display Unit
3 – E-STOP Button
4 – Run/Pause Switch
5 – Key Switch (Left Side Only)
6 – Upper Keypad No. 3
7 – Upper Keypad No. 2
8 – Steering Wheel
9 – Joystick
10 – Upper Keypad No. 1

Upper Control Panel (1)

The upper control panel contains necessary controls to operate the paver from the upper station.

Display Unit (2)

The display unit displays paver setup and calibration information, engine operating information, and engine and paver system fault information.

E-STOP Button (3)

Press the E-STOP button to IMMEDIATELY DISABLE the paver hydraulic functions. Turn clockwise and pull up on the E-STOP button to release it.

NOTICE **The E-STOP button remains in a locked down position until it is manually released.**

Run / Pause Switch (4)

The RUN/PAUSE switch controls stopping the paver while traveling. Move the switch to the PAUSE position to stop the paver from traveling and to deactivate the console.

Key Switch (5)

The key switch controls starting and stopping of the engine. In the vertical position, the key switch is off. The key switch is only on the left instrument panel. Turn the key one notch to the right for power. Turn the key to the far right to start the engine. After the engine starts, release the key, which will automatically return to the power position.

Upper Keypad No. 3 (6)

Can be operated from the left or right side. See *Upper Keypad No. 3 Functions on page 6-12* for more details.

Upper Keypad No. 2 (7)

Can be operated from the left or right side. See *Upper Keypad No. 2 Functions on page 6-10* for more details.

Steering Wheel (8)

The steering wheel controls the steering of the paver. Rotate the steering wheel slowly to the left to steer the paver to the left. Rotate the steering wheel slowly to the right to steer the paver to the right.

Joystick (9)

The joystick controls the direction of travel forward and reverse. Move the joystick to the center position for NEUTRAL. Moving the joystick forward will move the paver forward. Moving the joystick backward will move the paver backward. The further the joystick is moved in either direction, the faster the speed.

Upper Keypad No. 1 (10)

Can be operated from the left or right side. See *Upper Keypad No. 1 Functions on page 6-8* for more details.

KEYPAD OPERATING CONTROLS

Each operator instrument panel consists of three keypads that control designated functions.

Upper Keypad No. 1 Functions

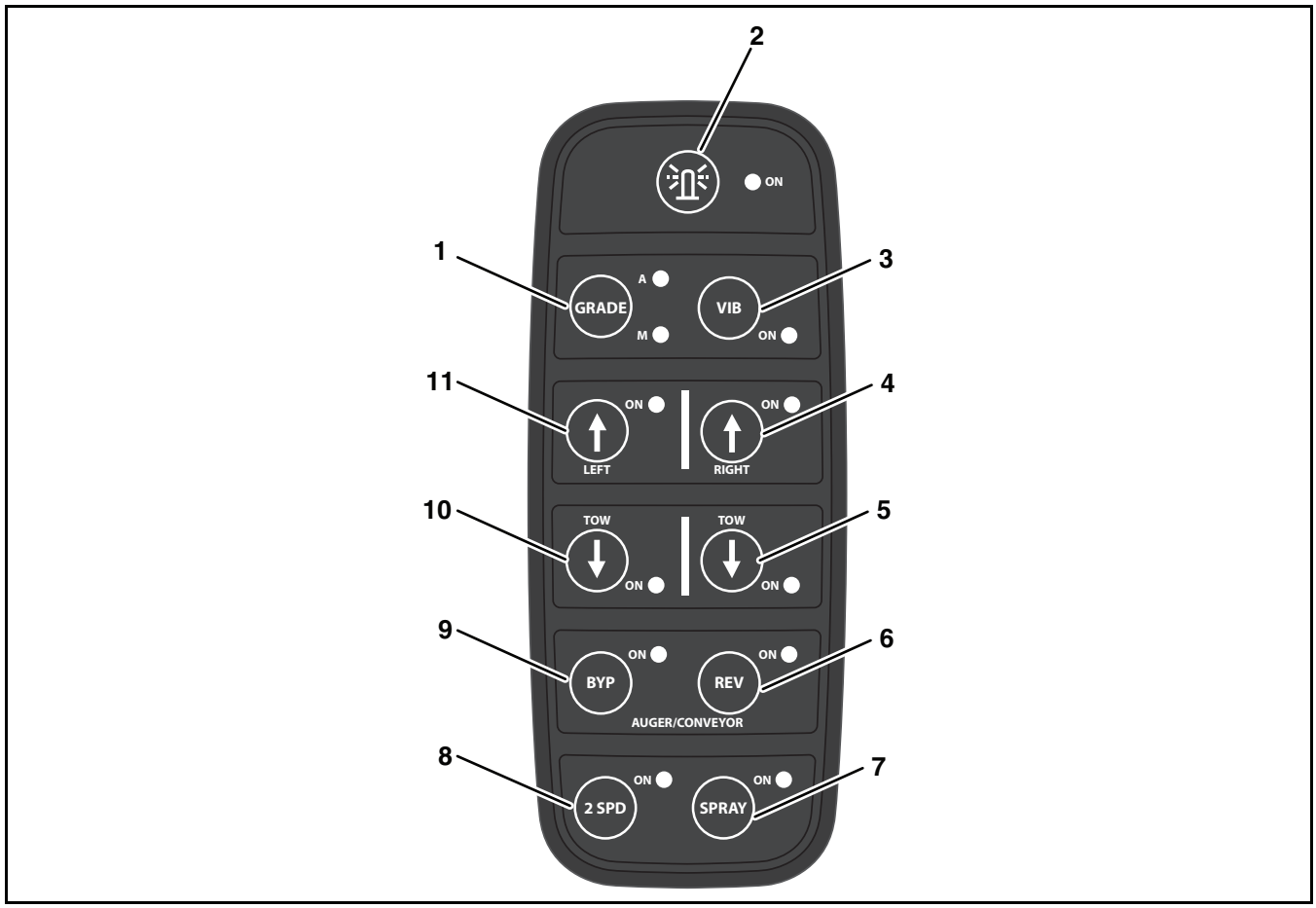


Figure 6-11

1 – Grade Switch
2 – Beacon Light Switch
3 – Vibrator Switch
4 – Right Tow Raise Switch
5 – Right Tow Lower Switch
6 – Reverse Conveyor/Augers Switch
7 – Spray Down Switch
8 – Two Speed High/Low Switch
9 – Conveyor Bypass Switch
10 – Left Tow Lower Switch
11 – Left Tow Raise Switch

Grade Switch (1)

Press the GRADE switch once for the MANUAL mode. In the MANUAL mode, the Tow Right Function and Tow Left Function are activated from the keypad. The “M” LED indicator on the keypad will light, indicating the MANUAL mode is activated.

Press the GRADE switch a second time for the AUTO mode. The “A” LED indicator on the keypad will light, indicating the AUTO mode is activated. In the AUTO mode, the Tow Right Function and the Tow Left Function use the System V signals and are activated only when the forward propel is active. The Tow Right Function and Tow Left Function will turn off when the paver is in NEUTRAL; however, the AUTO mode remains activated.

NOTICE **Turn the Grade Function AUTO mode off at the end of the mat being laid.**

While in the AUTO mode, pressing the GRADE switch a third time will turn off the Grade Function and LED indicator.

Beacon Light Switch (2)

Press the switch to turn on the beacon light. The LED indicator on the keypad will light, indicating the beacon light is on. Press the switch again to turn off the beacon light and LED indicator.

Vibrator Switch (3)

Press the VIB switch to turn on the vibrator. The Grade Function AUTO mode must be on and the paver must be propelled in the forward direction to activate the Vibrator Function. The LED indicator on the keypad remains on when the Grade Function AUTO mode is activated. The VIB switch will turn off when the paver is placed in NEUTRAL; however, the Grade Function AUTO mode remains on along with the LED indicator.

Right Tow Raise Switch (4)

Press and hold the RIGHT TOW RAISE switch to raise the right tow. The Right Tow Raise Function cannot be activated when the Grade Control Function is in the AUTO mode. The LED indicator on the keypad will light when the Right Tow Raise Function is activated and the Grade Control Function is in the MANUAL mode or the AUTO mode.

Right Tow Lower Switch (5)

Press and hold the RIGHT TOW LOWER switch to lower the right tow. The Right Tow Lower Function cannot be activated when the Grade Control Function is in the AUTO mode. The LED indicator on the keypad will light when the Right Tow Lower Function is activated and the Grade Control Function is in the MANUAL mode or the AUTO mode.

Reverse Conveyor / Augers Switch (6)

Press and hold the REV switch to reverse slowly both the right and the left conveyors and augers, if the Auger Bypass Function is not engaged. Pressing the REV switch will override the Conveyor Bypass Function, if engaged, but will maintain the status of Auger Bypass Function. The LED indicator on the keypad will light while pressing the REV switch.

Spray Down Switch (7)

Press the SPRAY switch to activate the spray down system. The LED indicator on the keypad will light, indicating the spray down system is activated. Press the switch again to de-activate the spray down system and LED indicator.

Two Speed High / Low Switch (8)

Press the 2 SPD switch once for LOW speed operation. Use the LOW position for work. Press the switch again for HIGH speed position. The LED indicator on the keypad will light, indicating the paver is in the HIGH speed position. Press the switch again to turn off the Two Speed Function and LED indicator.

NOTICE **The HIGH speed position is only for traveling. Do not use the HIGH speed position for work.**

Conveyor Bypass Switch (9)

Press the BYP switch to stop the rotation of the left and the right augers. The LED indicator on the keypad will light, indicating the augers are in the bypass position. In the auger bypass position, the augers are stopped from augering the material out of each end while filling the hopper with material. Press the switch again to turn off the Conveyor Bypass Function and LED indicator.

Left Tow Lower Switch (10)

Press and hold the LEFT TOW LOWER switch to lower the left tow. The Left Tow Lower Function cannot be activated when the Grade Control Function is in the AUTO mode. The LED indicator on the keypad will light when the Left Tow Lower Function is activated and the Grade Control Function is in the MANUAL mode or the AUTO mode.

Left Tow Raise Switch (11)

Press and hold the LEFT TOW RAISE switch to raise the left tow. The Left Tow Raise Function cannot be activated when the Grade Control Function is in the AUTO mode. The LED indicator on the keypad will light when the Left Tow Raise Function is activated and the Grade Control Function is in the MANUAL mode or the AUTO mode.

Upper Keypad No. 2 Functions

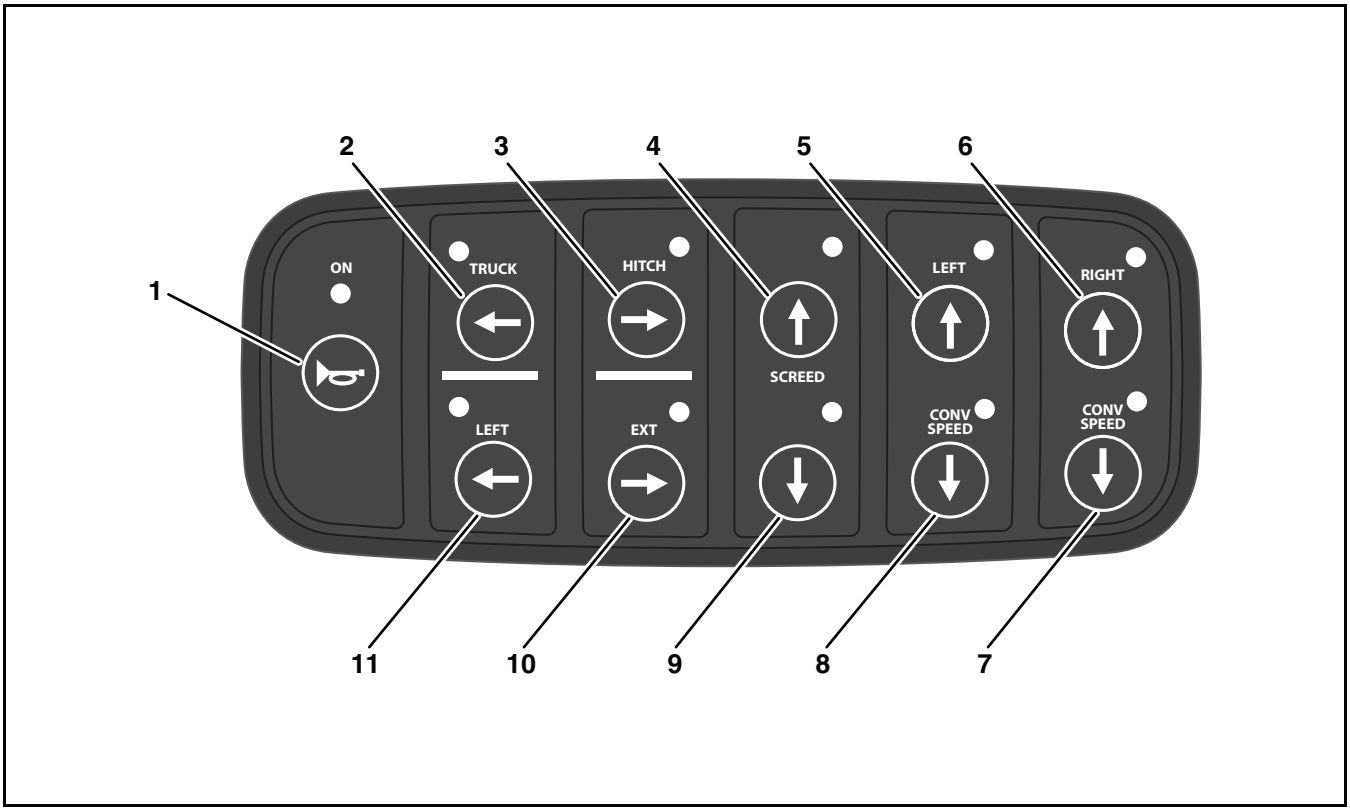


Figure 6-12

1 – Horn Switch
2 – Truck Hitch Out Switch
3 – Truck Hitch In Switch
4 – Screed Raise Switch
5 – Left Conveyor Increase Speed Switch
6 – Right Conveyor Increase Speed Switch
7 – Right Conveyor Decrease Speed Switch
8 – Left Conveyor Decrease Speed Switch
9 – Screed Lower Switch
10 – Left Extension Retract Switch
11 – Left Extension Extend Switch

Horn Switch (1)

Press and hold the switch to sound the horn. The LED indicator on the keypad will light when the switch is pressed.

Truck Hitch Out Switch (2) (Optional)

Press and hold the switch to activate the Truck Hitch Out Function and release the truck wheels. The LED indicator on the keypad will light when the TRUCK HITCH OUT switch is released.

Truck Hitch In Switch (3) (Optional)

Press and hold the switch to activate the Truck Hitch In Function and engage the truck wheels. The LED indicator on the keypad will light when the Truck Hitch In Function is engaged.

Screed Raise Switch (4)

Press and hold the switch to raise the screed. The LED indicator on the keypad will light when the screed is in the RAISED position.

Left Conveyor Increase Speed Switch (5)

Press and hold the switch to increase the left conveyor speed. The LED indicator on the keypad will light when the switch is pressed.

Right Conveyor Increase Speed Switch (6)

Press and hold the switch to increase the right conveyor speed. The LED indicator on the keypad will light when the switch is pressed.

Right Conveyor Decrease Speed Switch (7)

Press and hold the switch to decrease the right conveyor speed. The LED indicator on the keypad will light when the switch is pressed.

Left Conveyor Decrease Speed Switch (8)

Press and hold the switch to decrease the left conveyor speed. The LED indicator on the keypad will light when the switch is pressed.

Screed Lower Switch (9)

NOTE: The screed must be in the FLOAT position to pave.

Press the key to lower the screed to the FLOAT position. The LED indicator on the keypad will light when the screed is in the FLOAT position.

Left Extension Retract Switch (10)

Press the switch to retract the left extension. The LED indicator on the keypad will light when the left extension is in the RETRACT position.

Left Extension Extend Switch (11)

Press the switch to extend the left extension. The LED indicator on the keypad will light when the left extension is in the EXTEND position.

Upper Keypad No. 3 Functions

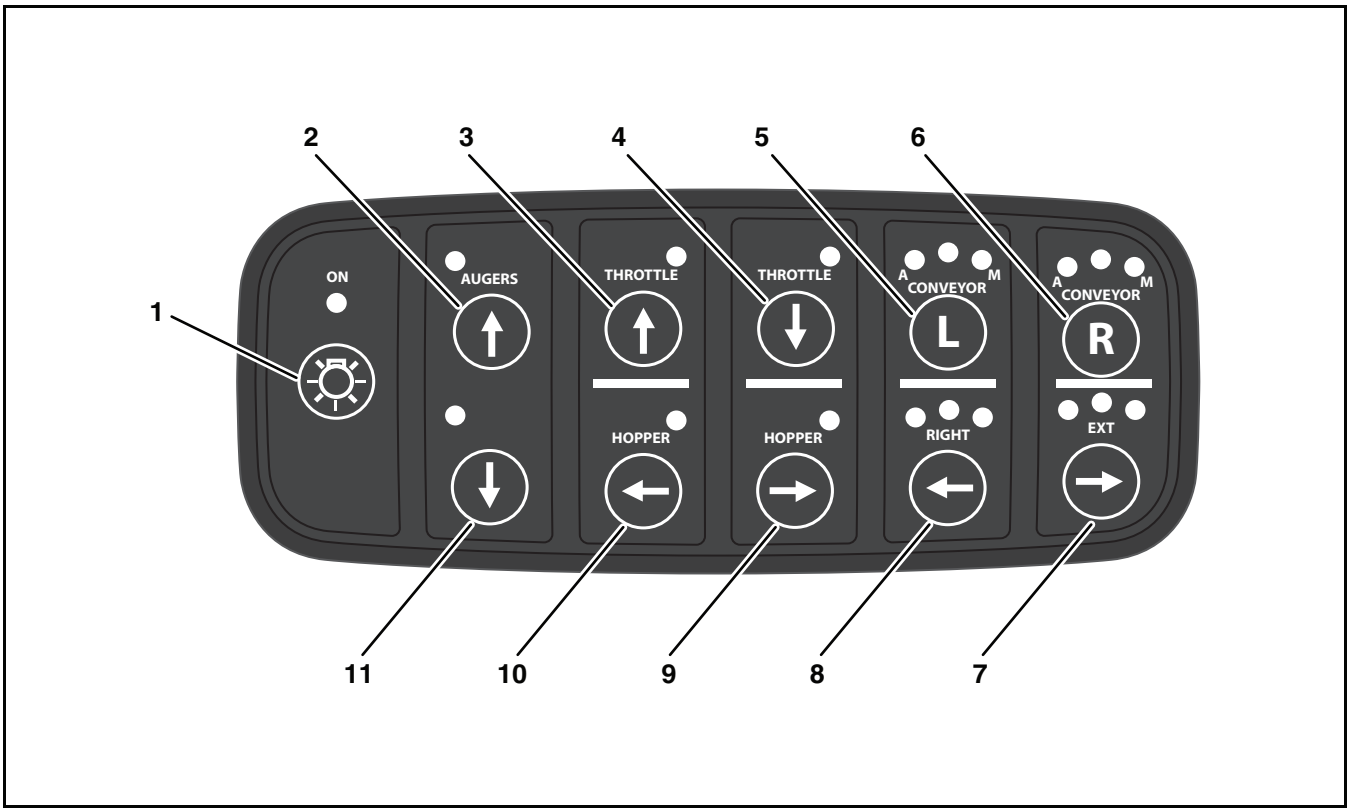


Figure 6-13

1 – Work Lights Off/On Switch
2 – Augers Raise Switch
3 – Throttle Up Switch
4 – Throttle Down Switch
5 – Left Conveyor/Auger Off/Man Auto Switch
6 – Right Conveyor/Auger Off/Man Auto Switch
7 – Right Extension Retract Switch
8 – Right Extension Extend Switch
9 – Hopper In Switch
10 – Hopper Out Switch
11 – Augers Lower Switch

Work Lights Off / On Switch (1)

Press the switch to turn on the work lights. The LED indicator on the keypad will light, indicating the work lights are on. Press the switch again to turn off the work lights and the LED indicator.

Augers Raise Switch (2)

Press and hold the AUGERS RAISE switch to raise both the left and the right augers. The LED indicator on the keypad will light, indicating the augers are rising. Releasing the switch will hold the augers at that position and turn off the LED indicator.

Throttle Up Switch (3)

Press the switch to increase the engine speed. Releasing the key will maintain the speed. The LED indicator on the keypad will light, indicating the THROTTLE UP switch is activated. The Throttle Up Function uses CAN communication to the engine to eliminate external connection.

Throttle Down Switch (4)

Press the switch to decrease the engine speed. Releasing the key will maintain the engine speed. The LED indicator on the keypad will light, indicating the THROTTLE DOWN switch is activated.

Left Conveyor / Auger Off / Man Auto Switch (5)

NOTICE All auger switches must be in the ON position for the function to operate.

The function uses a three-position switch. The middle LED indicator is on when function is off:

- Press the LEFT CONVEYOR switch once to activate the MANUAL mode. The right LED indicator on the keypad will light, indicating the function is in the MANUAL mode.
- Press the switch again to activate the AUTO mode. The left LED indicator on the keypad will light, indicating the function is in the AUTO mode.
- Press the switch again to turn off the function and turn on the middle LED indicator.

Right Conveyor / Auger Off / Man Auto Switch (6)

NOTICE All auger switches must be in the ON position for the function to operate.

The function uses a three-position switch. The middle LED indicator is on when function is off:

- Press the RIGHT CONVEYOR switch once to activate the MANUAL mode. The right LED indicator on the keypad will light, indicating the function is in the MANUAL mode.
- Press the switch again to activate the AUTO mode. The left LED indicator on the keypad will light, indicating the function is in the AUTO mode.
- Press the switch again to turn off the function and turn on the middle LED indicator.

Right Extension Retract Switch (7)

Press and hold the RIGHT EXTENSION RETRACT switch to retract the right extension. The LED indicator on the keypad will light, indicating the right extension is retracting. Releasing the switch will hold the right extension at that position and turn off the LED indicator.

Right Extension Extend Switch (8)

Press and hold the RIGHT EXTENSION EXTEND switch to extend the right extension. The LED indicator on the keypad will light, indicating the right extension is extending. Releasing the switch will hold the right extension at that position and turn off the LED indicator.

Hopper In Switch (9)

Press and hold the HOPPER IN switch to raise the hopper. The LED indicator on the keypad will light while the hopper is rising. Releasing the switch will hold the hopper at that position and turn off the LED indicator.

Hopper Out Switch (10)

Press and hold the HOPPER OUT switch to lower the hopper. The LED indicator on the keypad will light, indicating the hopper is lowering. Releasing the switch will hold the hopper at that position and turn off the LED indicator.

Augers Lower Switch (11)

Press and hold the AUGERS LOWER switch to lower both the left and the right augers. The LED indicator on the keypad will light, indicating the augers are lowering. Releasing the switch will hold the augers at that position and turn off the LED indicator.

Lower Keypads

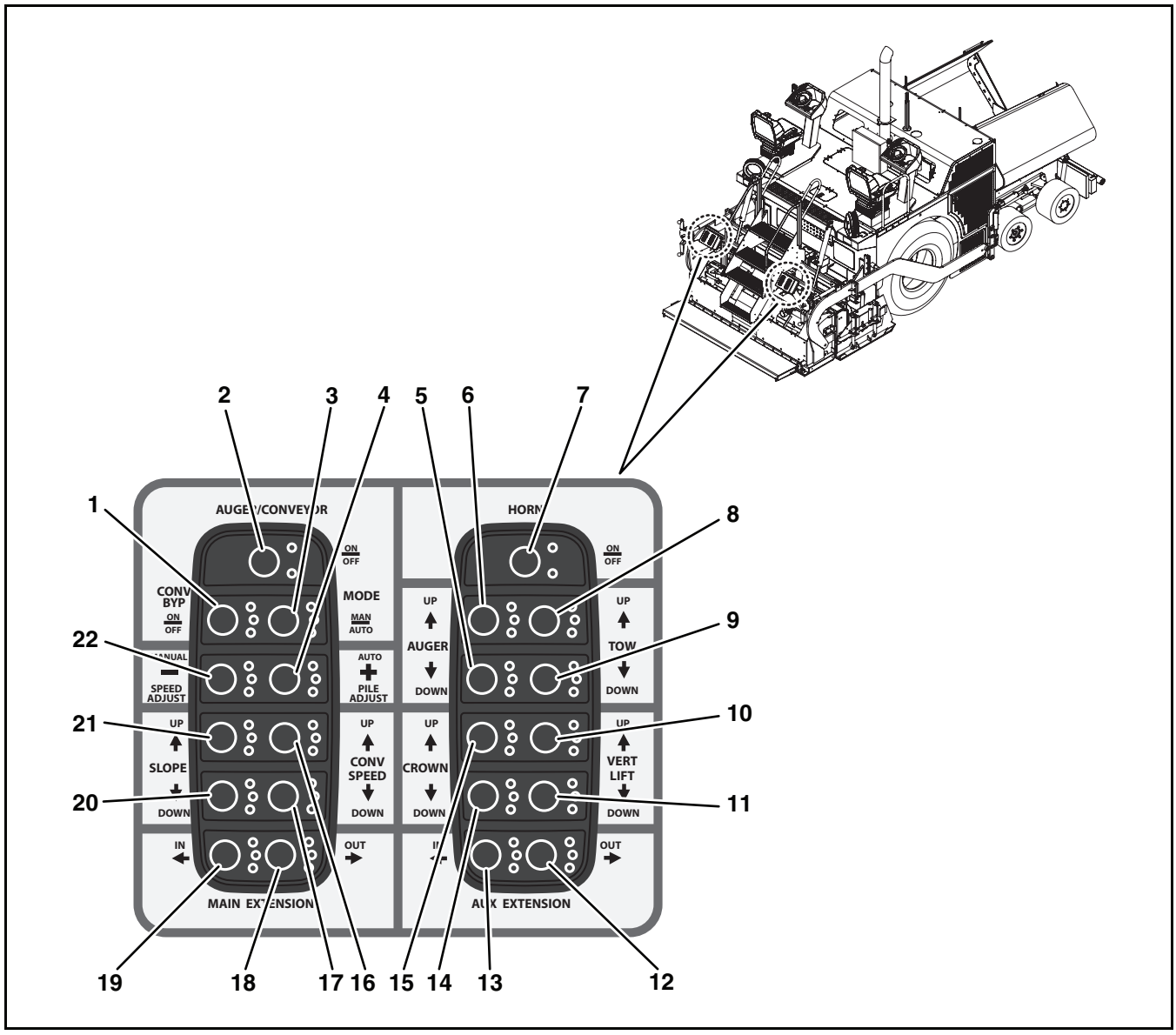


Figure 6-14

1 – Auger/Conveyor Bypass Switch
2 – Master Auger/Conveyor Switch
3 – Conveyor/Auger Auto/Man Switch
4 – Material Height/Auger Speed Plus (+) Switch
5 – Auger Down Switch
6 – Auger Up Switch
7 – Horn Switch
8 – Tow Up Switch
9 – Tow Down Switch
10 – Vertical Lift Up Switch
11 – Vertical Lift Down Switch
12 – Aux Extension Retract Switch
13 – Aux Extension Extend Switch
14 – Crown Down Switch
15 – Crown Up Switch
16 – Conveyor Speed Increase Switch
17 – Conveyor Speed Decrease Switch
18 – Main Extension Retract Switch
19 – Main Extension Extend Switch
20 – Slope Lower Switch
21 – Slope Raise Switch
22 – Material Height/Auger Speed Minus (-) Switch

Auger / Conveyor Bypass Switch (1)

Press the switch to turn on the conveyor bypass valve. The LED indicator on the keypad will light, indicating the conveyor is in the BYPASS mode.

Master Auger / Conveyor Switch (2)

Press the switch to turn the Master Auger/Conveyor Function on for the respective side. The LED indicator on the keypad will light when the Master Auger/Conveyor Function is on.

Any functions that are in the BYPASS mode will remain in the BYPASS mode. If an instrument panel keypad with the same functionality is used, the last keypad being used will have priority.

Conveyor / Auger Auto / Man Switch (3)

Manual mode will use the last stored values for speed from the manual settings. This can be increased or decreased with the + or - switches located directly below the AUTO/MAN switch and is active only if the Auger/Conveyor Function is active. On power up, a 50% speed setting is utilized. This is overridden by the master auger/conveyor stop/start.

In the AUTO mode, the LED indicator will light. The auger and conveyor speed is controlled by the ultrasonic sensor inputs that provide feedback of the pile height being sensed. This pile height is adjusted during the AUTO RUN mode by pressing the + or - switches located below the CONVEYOR/AUGER AUTO/MAN switch.

Material Height / Auger Speed Plus (+) Switch (4)

When the CONVEYOR/AUGER MANUAL mode is selected and the Master Auger/Conveyor Function is on, depressing this PLUS (+) switch increases the speed setting of the Conveyor/Auger Function. When the paver is shut off the conveyor speed will default to the slow speed. Push the (+) button once to go from slow to medium speed. Push the (+) button again to go from medium to high speed. When the CONVEYOR/AUGER AUTO is selected and the function is on, pressing this PLUS (+) switch increases the pile height controlled by the ultrasonic sensors.

Auger Down Switch (5)

Press and hold the AUGER DOWN switch to lower the auger. The LED indicator on the keypad will light while the auger is lowering. Releasing the switch will hold the auger at that position and turn off the LED indicator.

Auger Up Switch (6)

Press and hold the AUGER UP switch to raise the auger. The LED indicator on the keypad will light while the auger is rising. Releasing the switch will hold the auger at that position and turn off the LED indicator.

Horn Switch (7)

Press and hold the switch to sound the horn. The LED indicators on the keypad will indicate if function is on or off.

Tow Up Switch (8)

Press and hold the TOW UP switch to adjust the tow in the up direction. The LED indicator on the keypad will light while the tow is being adjusted. Releasing the switch will hold the tow adjustment at that position and turn off the LED indicator.

Tow Down Switch (9)

Press and hold the TOW DOWN switch to adjust the tow in the down direction. The LED indicator on the keypad will light while the tow is being adjusted. Releasing the switch will hold the tow adjustment at that position and turn off the LED indicator.

Vertical Lift Up Switch (10)

Press and hold the VERTICAL LIFT UP switch to adjust the vertical lift in the up direction. The LED indicator on the keypad will light while the vertical lift is being adjusted. Releasing the switch will hold the vertical lift adjustment at that position and turn off the LED indicator.

Vertical Lift Down Switch (11)

Press and hold the VERTICAL LIFT DOWN switch to adjust the vertical lift in the down direction. The LED indicator on the keypad will light while the vertical lift is being adjusted. Releasing the switch will hold the vertical lift adjustment at that position and turn off the LED indicator.

Aux Extension Retract Switch (12)

Press and hold the AUX EXTENSION RETRACT switch to retract the screed from the AUXILIARY EXTEND position. The LED indicator on the keypad will light while the extension is retracting. Releasing the switch will hold the extension at that position and turn off the LED indicator.

Aux Extension Extend Switch (13)

Press and hold the AUX EXTENSION EXTEND switch to extend the screed to the AUXILIARY EXTEND position. The LED indicator on the keypad will light while the extension is extending. Releasing the switch will hold the extension at that position and turn off the LED indicator.

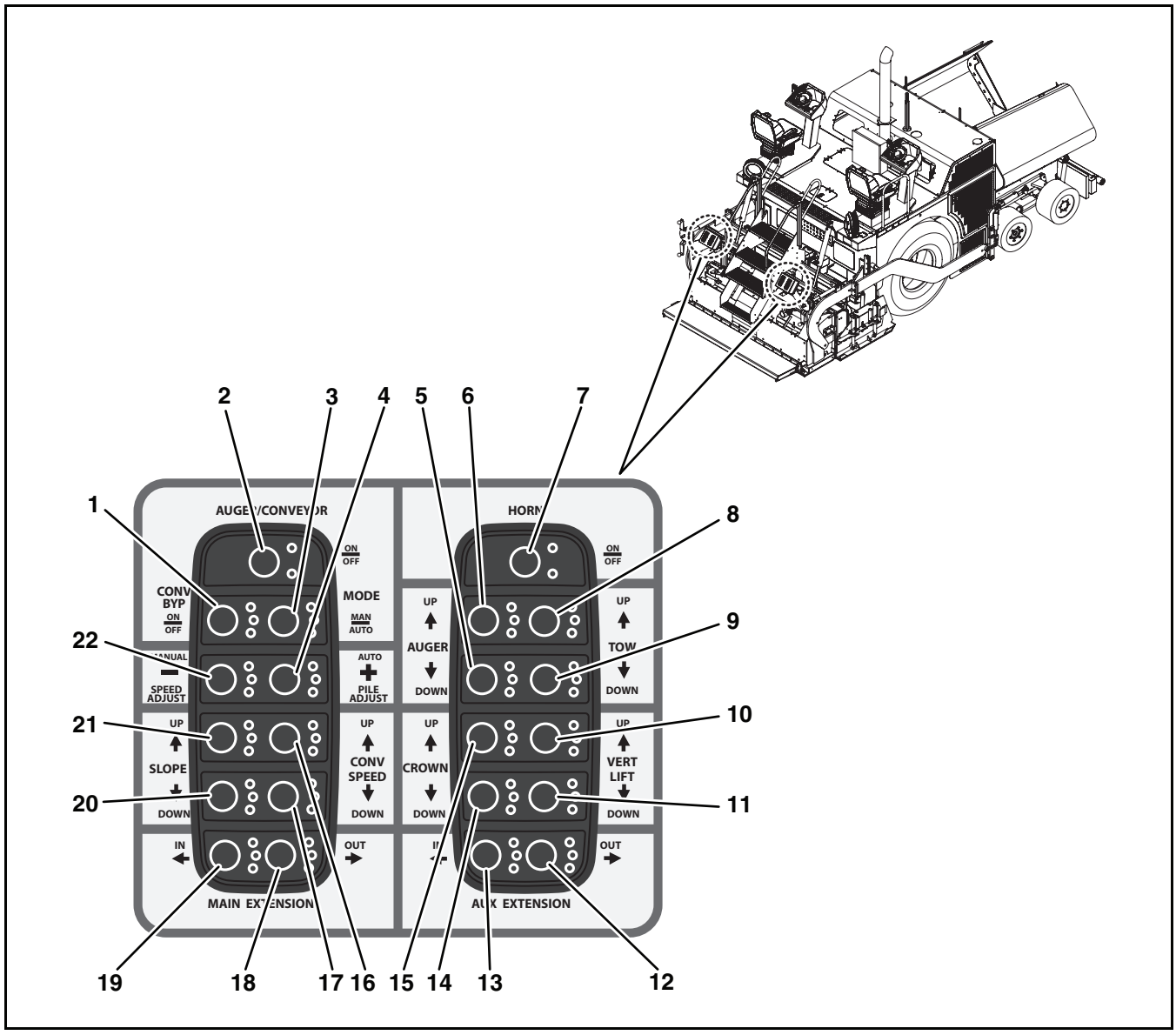


Figure 6-15

1 – Auger/Conveyor Bypass Switch
2 – Master Auger/Conveyor Switch
3 – Conveyor/Auger Auto/Man Switch
4 – Material Height/Auger Speed Plus (+) Switch
5 – Auger Down Switch
6 – Auger Up Switch
7 – Horn Switch
8 – Tow Up Switch
9 – Tow Down Switch
10 – Vertical Lift Up Switch
11 – Vertical Lift Down Switch
12 – Aux Extension Retract Switch
13 – Aux Extension Extend Switch
14 – Crown Down Switch
15 – Crown Up Switch
16 – Conveyor Speed Increase Switch
17 – Conveyor Speed Decrease Switch
18 – Main Extension Retract Switch
19 – Main Extension Extend Switch
20 – Slope Lower Switch
21 – Slope Raise Switch
22 – Material Height/Auger Speed Minus (-) Switch

Crown Down Switch (14)

Press and hold the CROWN DOWN switch to adjust the vertical lift in the down direction. The LED indicator on the keypad will light while the crown is being adjusted. Releasing the switch will hold the crown adjustment at that position and turn off the LED indicator.

Crown Up Switch (15)

Press and hold the CROWN UP switch to adjust the vertical lift in the up direction. The LED indicator on the keypad will light while the crown is being adjusted. Releasing the switch will hold the crown adjustment at that position and turn off the LED indicator.

Conveyor Speed Increase Switch (16)

Press and hold the CONVEYOR SPEED INCREASE switch to increase the speed of the conveyor. The LED indicator on the keypad will light, indicating conveyor speed is increasing. Releasing the switch will hold the conveyor speed constant and turn off the LED indicator. The left lower keypad will control the left conveyor and the right lower keypad will control the right conveyor.

Conveyor Speed Decrease Switch (17)

Press and hold the CONVEYOR SPEED DECREASE switch to decrease the speed of the conveyor. The LED indicator on the keypad will light, indicating conveyor speed is decreasing. Releasing the switch will hold the conveyor speed constant and turn off the LED indicator. The left lower keypad will control the left conveyor and the right lower keypad will control the right conveyor.

Main Extension Retract Switch (18)

Press and hold the MAIN EXTENSION RETRACT switch to retract the screed from the MAIN EXTEND position. The LED indicator on the keypad will light while the extension is retracting. Releasing the switch will hold the extension at that position and turn off the LED indicator.

Main Extension Extend Switch (19)

Press and hold the MAIN EXTENSION EXTEND switch to extend the screed to the MAIN EXTEND position. The LED indicator on the keypad will light while the extension is extending. Releasing the switch will hold the extension at that position and turn off the LED indicator.

Slope Lower Switch (20)

Press and hold the SLOPE LOWER switch to lower the slope. The LED indicator on the keypad will light when lowering the slope. Releasing the switch will hold the slope at that position and turn off the LED indicator.

Slope Raise Switch (21)

Press and hold the SLOPE RAISE switch to raise the slope. The LED indicator on the keypad will light when raising the slope. Releasing the switch will hold the slope at that position and turn off the LED indicator.

Material Height / Auger Speed Minus (-) Switch (22)

When the CONVEYOR/AUGER MANUAL mode is selected and the Master Auger/Conveyor Function is on, pressing the MINUS (-) switch reduces the speed setting of the Conveyor/Auger Function. When the paver is shut off the conveyor speed will default to the slow speed. Push the (-) button once to go from high to medium speed. Push the (-) button again to go from medium to slow speed. When the CONVEYOR/ AUGER AUTO mode is selected and the function is on, pressing the MINUS (-) switch reduces the pile height controlled by the ultrasonic sensors.

OPERATING CONTROLS

Battery Disconnect Switch

The battery disconnect switch **(Figure 6-16, 1)** is located inside the left engine cover. The switch disconnects all electrical power to the LeeBoy Model 9000 Paver.

NOTICE **Always turn the battery disconnect switch off at the end of the day.**

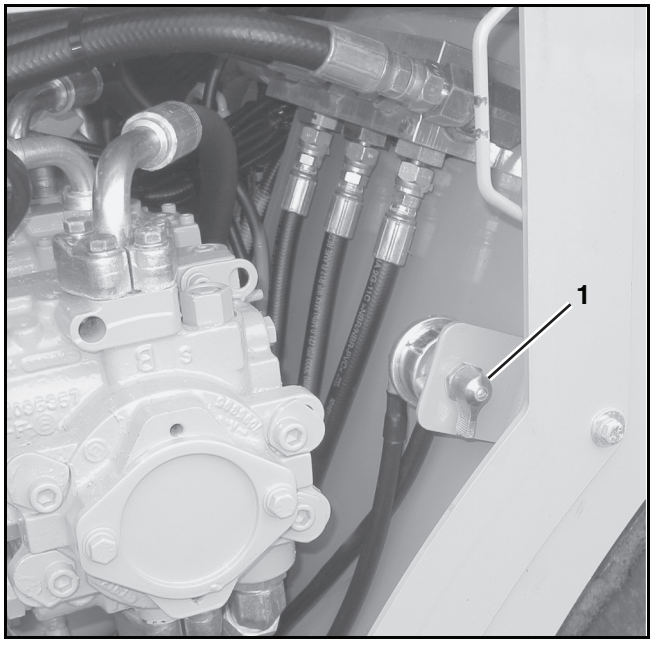


Figure 6-16

Depth Screw Jacks

There are two depth screw jacks located on the outside of the left and right end gates. There is a front depth screw jack **(Figure 6-17, 1)** and a rear depth screw jack **(Figure 6-17, 2)**. They are used to adjust the depth of the end gates. Turning the handle clockwise will lower the end gate and turning the handle counterclockwise will raise the end gate.

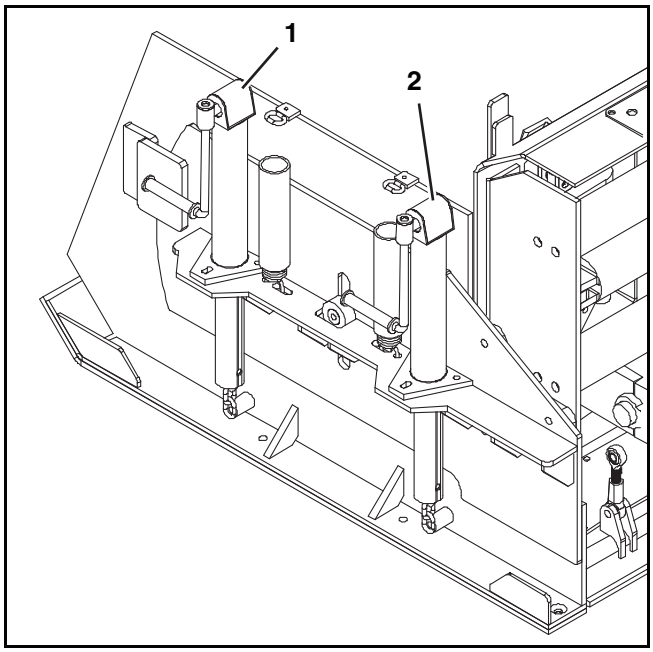


Figure 6-17

1 – Front Depth Screw Jack
2 – Rear Depth Screw Jack

Flight Screws

There are two flight screws **(Figure 6-18, 1)** located at the rear of the LeeBoy Model 9000 Paver. The flight screws are used to manually adjust the thickness of the material. The flight screws operate independently of each other.

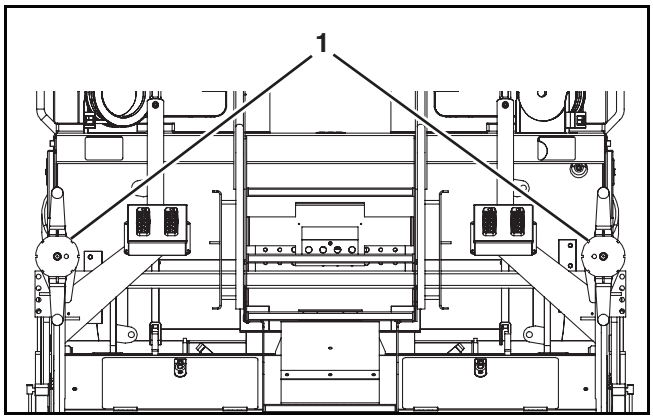


Figure 6-18

Spray Down System

There is a spray down wand **(Figure 6-19, 1)** and hose reel **(Figure 6-19, 2)** at the back of the LeeBoy Model 9000 Paver on the left and right sides. Always spray all areas of the paver that have direct contact with asphalt before operating.

⚠ 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.

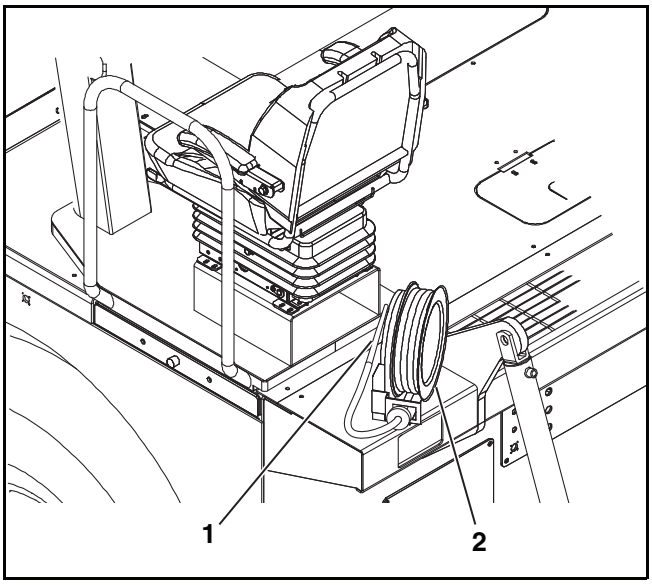


Figure 6-19

1 – Wand
2 – Hose Reel

Mat Texture Adjustment Screws

There are four mat texture adjustment screws. There is one on each screed extension **(Figure 6-20, 1)** and one at each end of the main screed **(Figure 6-20, 2)**. The mat texture screws tilt the screed to put more or less pressure on the rear edge of the screed.

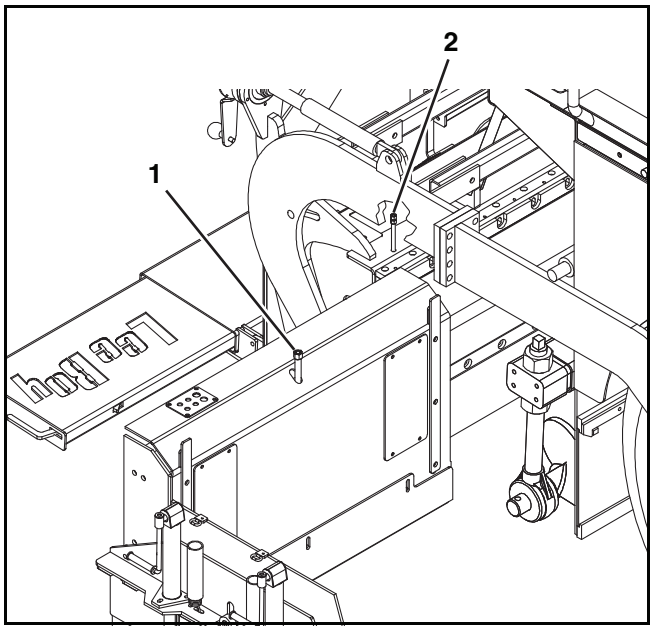


Figure 6-20

1 – Screed Extension Adjuster
2 – Main Screed Adjuster

Sonic Auger Sensors

The sonic auger sensors **(Figure 6-21, 1)** are located inside each end gate. When in AUTO mode, the sonic auger sensors control the pile height by varying the speed of the conveyors and the augers.

NOTICE The end of the sensor must be kept clean.

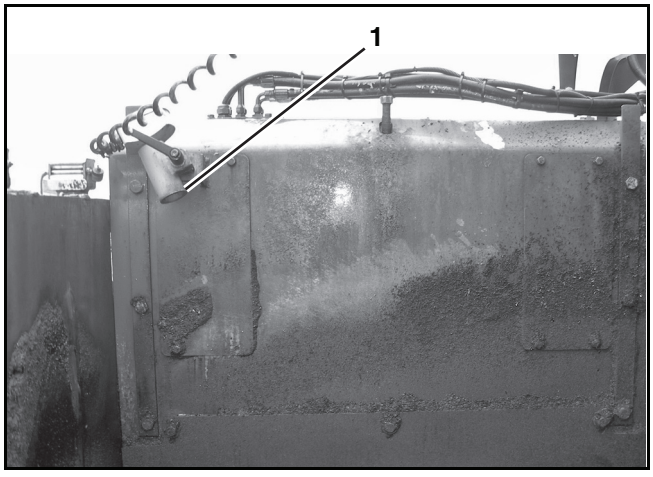


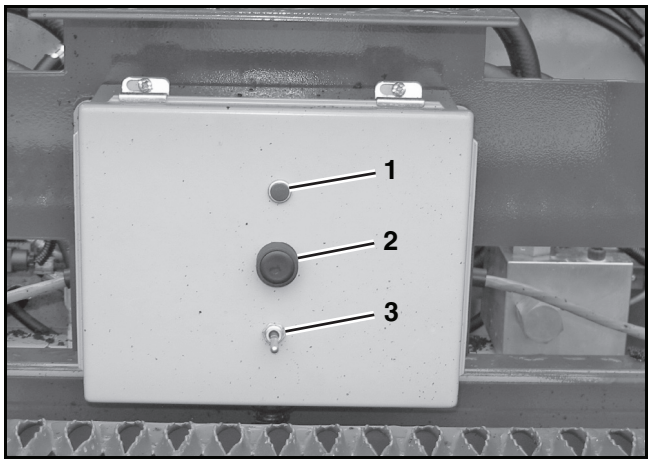
Figure 6-21

Sonic Grade and Slope Controls

If your LeeBoy Model 9000 Paver is equipped with the optional Sonic Grade and Slope Control kit, please refer to the operator's manual that came with the kit for the proper operation of the Sonic Grade and Slope Control option.

Screed Heater Control Box

The screed heater control box is located at the rear of the LeeBoy Model 9000 Paver under the top step. To activate the screed heater, turn on the switch **(Figure 6-22, 3)**. When the screed heater is on, the red light **(Figure 6-22, 1)** will illuminate. The screed heater is controlled by a timer. When the heater turns off, push the reset button **(Figure 6-22, 2)** to reset the timer and restart the heater.



Screed Heater Control Box

Figure 6-22

1 – ON Indicator Light
2 – Reset Button
3 – ON Switch

PRE-START INSPECTION

Inspect the LeeBoy Model 9000 Paver. Have any malfunctioning, broken or missing parts corrected or replaced before using. Hydraulic hoses should be checked daily for wear and leaks. Replace if damaged.

Check that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the paver.

Read and follow all instruction and safety labels.

Wear OSHA required safety equipment when running the paver.

Fill the fuel tank with the engine off. Never fill fuel tank near an open flame, when smoking or when screed heat is on. (Fill at the end of day to keep condensation out.)

⚠ DANGER Fire and Explosion Hazard!
Diesel fuel is flammable and explosive under certain conditions:

- **Only fill the fuel tank with diesel fuel. Filling the fuel tank with gasoline may result in a fire and will damage the engine.**
- **Wipe up any spills immediately.**
- **NEVER refuel with the engine running.**
- **NEVER remove the fuel cap while the engine is running.**
- **Keep sparks, open flames or any other form of ignition (match, cigarette, static electric source) well away when refueling.**

Before starting the engine, clear the auger and feeders. Make sure all covers and guards are in place.

⚠ WARNING Entanglement/Sever Hazard!
Verify that all of the LeeBoy Model 9000 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.

STARTING THE ENGINE

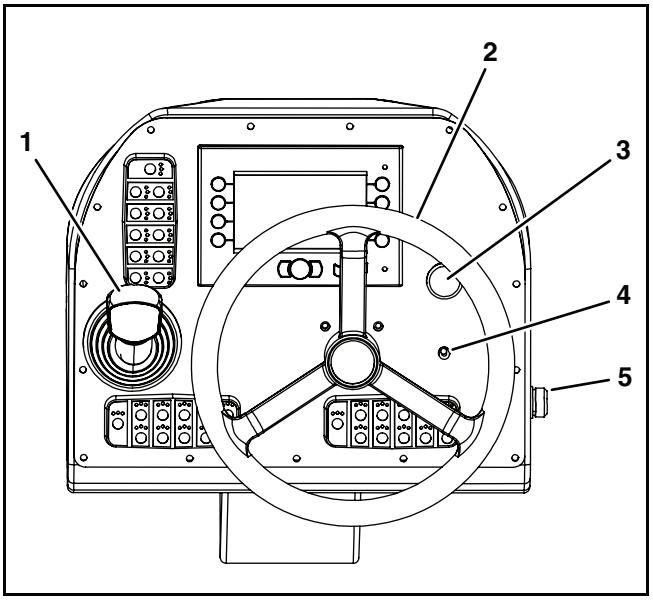
Preliminary

Before starting the engine:

1. Check fuel level.
2. Check fuel lines and tank for leaks.
3. Check engine crankcase oil level.

NOTICE Failure to maintain correct engine oil level will cause engine failures.

4. Check hydraulic oil level. Oil level is determined by the sight gauge on the hydraulic tank on the left side of unit.
5. Refer to the *Engine Operator's Manual* for instructions when starting the engine for the first time. Follow the engine manufacturer's recommendations for fuel and oil.



Left Side Instrument Panel

Figure 6-23

1 – Joystick
2 – Steering Wheel
3 – E-STOP Button
4 – Run/Pause Switch
5 – Key Switch

Engine Start-Up

NOTE: The joystick **(Figure 6-23, 1)** must be in the NEUTRAL position to start the engine.

1. Make sure the joystick is in the NEUTRAL position.
2. Both E-STOP buttons **(Figure 6-23, 3)** must be in the UP position.
3. Throttle at idle or 1/2 by pressing and holding the THROTTLE switch in the UP or DOWN position.

⚠ CAUTION The use of starting additives, such as ether, is not recommended if the paver is equipped with intake heaters.

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

4. Insert key into the ignition switch **(Figure 6-23, 5)** on instrument panel and turn the key to the START position.
5. When the engine starts and is running smooth, throttle back to idle by pressing and holding the THROTTLE switch on the dash panel in the DOWN position until idle speed is reached.

NOTICE Allow the engine to warm up for several minutes before moving the LeeBoy Model 9000 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.

Stopping the Engine

1. Throttle back to idle by pressing and holding the THROTTLE switch in the DOWN position until idle speed is reached.
2. Turn the ignition key on the instrument panel to the OFF position and remove the key.

PAVER DRIVING INSTRUCTIONS

Electronic Control Steering Box

To drive the LeeBoy Model 9000 Paver, check that the steering wheel **(Figure 6-23, 2)** is centered so the paver will go straight ahead. Push the joystick (lever) **(Figure 6-23, 1)** forward slowly to reach the desired speed and turn the steering wheel slowly to make turns as desired. The more you move the joystick, the faster the travel speed.

NOTICE To stop the paver, pull the joystick back to the NEUTRAL position.

1. After the paver has been started and the engine is warmed up, paver movements may be made.
2. To drive the paver forward, push the joystick **(Figure 6-23, 1)** forward to reach desired speed. To move in reverse, pull the joystick backward to reach desired speed. Place the joystick in NEUTRAL to stop the paver.

NOTICE To slow the unit, move the joystick closer to NEUTRAL or in NEUTRAL to stop.

3. To steer the unit, turn the steering wheel **(Figure 6-23, 2)** in the travel direction desired. The further the wheel is turned, the more the paver turns. Slow and easy adjustments are required.
4. The RUN/PAUSE toggle switch **(Figure 6-23, 4)** on the instrument panel will stop the paver when set to the PAUSE 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 START position.

PAVER PREPARATION INSTRUCTIONS

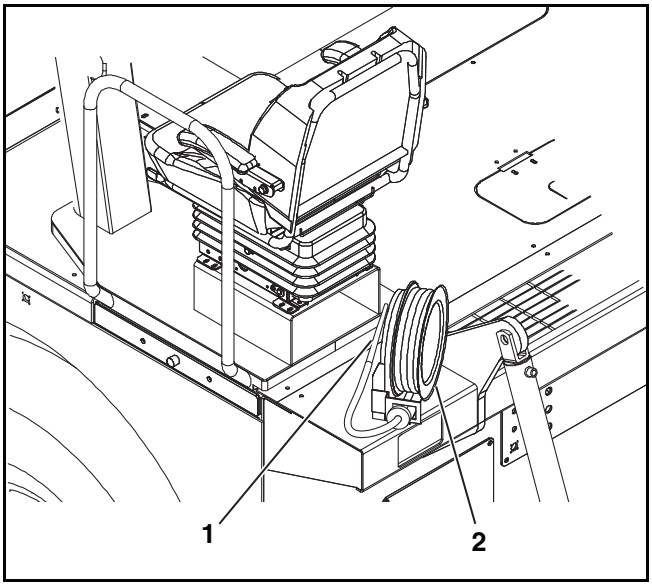
Electric Spray Down

Always spray down the LeeBoy Model 9000 Paver before using.

The spray down on your paver **(Figure 6-24)** is used to spray cleaning solvent 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.



Spray Down Hose and Wand

Figure 6-24

1 – Wand
2 – Hose Reel

1. Unroll the amount of hose needed and set SPRAY DOWN switch to SPRAY DOWN (up) position. Squeeze the wand handle and spray. Release wand handle when done spraying.
2. After spraying, set the SPRAY DOWN switch to the OFF (down) position and wind the hose.

Truck Hitch Attachment (Optional)

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:

1. Extend the arm extensions of the truck hitch by setting the TRUCK HITCH switch to the OUT position to extend the hitch arms.
2. Slowly back 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 switch to the IN position to retract the hitch arms until both guide rollers are fully locked into the truck wheel rims.
4. It may be necessary to adjust the roller guides to the inside of the wheel rims, initially.

Operating Conveyor

The conveyor is a very important part of the LeeBoy Model 9000 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.

- Spray the conveyors periodically. Spray several times a day with cleaning solvent or release agent.
- Irregular movement of the conveyor indicates that a problem may exist with the conveyor. To eliminate this problem, an adjustment to the chain may be necessary.

⚠ WARNING Entanglement/Sever Hazard! Never let the LeeBoy Model 9000 Paver sit with conveyors turning. Always turn off the conveyors when not using.

NOTICE To prevent conveyors from sticking, lubricate them sufficiently at the end of the day after they have been thoroughly cleaned and the paver is turned off and has cooled down.

Operating Tow Point Cylinders

The tow point cylinders are an added convenience to the operator. A gauge is located on both sides of the LeeBoy Model 9000 Paver. These gauges provide the operator with quick reference as to the height of the screed.

- Before paving, center the tow point by referring to the screed elevation gauge on each side of the paver. Raise or lower until the rod end is flush with 0 on the indicator.
- While paving, refer to both gauges and make minor adjustment to the screed by using the tow point adjustment.

NOTICE Never let end gates carry the weight of the screed.

NOTE: Mostly used with automatic grade controls. All 9000s are pre-wired for grade controls.

NOTE: For tow point screws to work, both side grade switches on the dash must be on and the joystick forward with the engine running.

SONIC AUGER SENSORS

The sonic auger sensors are most often used when paving 10 ft. (3 m) or wider where augers are capable of running material over the top of the end gates, causing extra handwork.

The sonic auger sensors gauge the amount of material that is in the extensions.

When in AUTO mode, the sonic auger sensors control the amount of material that is fed to the end gates. The sensors sense the pile height and will control both the conveyor speed and auger speed by regulating the hydraulic pump output.

NOTICE **If augers do not turn and conveyors do, ensure that both left and right CONVEYOR BYPASS switches are off. The LED light on the touchpad will not be illuminated when you are not in BYPASS mode.**

When the pile height is closer to the sensor, it will slow down the conveyor and auger speeds. If the pile height drops to a certain point, it will return the augers and conveyors to full speed to fill material.

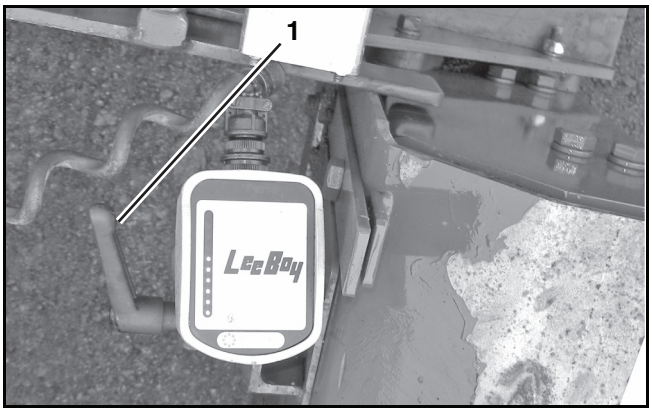
When in MANUAL mode, the sonic auger sensors are not used. The pile height is still controlled by the conveyor speed and auger speed but you must use the touch pads to manually control the conveyor and auger speeds.

NOTICE **If augers do not turn and conveyors do, ensure that both left and right CONVEYOR BYPASS switches are off. The led light on the touchpad will not be illuminated when you are not in BYPASS mode.**

Sonic Auger Sensor Adjustment

The sonic augers can be adjusted slightly to control the pile height. Loosen the handle **(Figure 6-25, 1)** to change the angle of the sonic auger sensor. Tighten the handle when the sensor is in the desired position.

NOTICE **The end of the sensor must be kept clean.**



Sonic Auger Sensor Height Adjustment

Figure 6-25

Automatic Mode

To operate the LeeBoy Model 9000 Paver in AUTO mode, make sure the CONVEYOR BYPASS switch on the touch pad is off. The LED light should not be illuminated.

Push the MANUAL/AUTO mode button until the AUTO mode light is illuminated. When starting in AUTO mode, it will begin at the last stored values for speed. To change the values, press the pile adjust plus or minus speed switches. Adjust the sonic auger sensors if needed.

Manual Mode

To operate the LeeBoy Model 9000 Paver in MANUAL mode, make sure the CONVEYOR BYPASS switch on the touch pad is off. The LED light should not be illuminated.

Push the MANUAL/AUTO mode button until the MANUAL mode light is illuminated. Use the conveyor speed up or down buttons on the touch pad to control the conveyor and auger speed.

When running material through the augers manually, try to pave so material flow to the end gates is adequate and constant. Be careful not to over-run the extension with material or material will spill out around front of the end gate and require more hand work.

Raising and Lowering Augers

The augers can be raised or lowered by using the AUGER RAISE and LOWER buttons on the keypads. Normal auger height should be approximately 1.5 - 2 in. (38.1 - 50.8 mm) above the material thickness height.

NOTICE **The augers must be in the RAISED position when loading or unloading the LeeBoy Model 9000 Paver.**

LOADING AND UNLOADING

Trailers used to haul the LeeBoy Model 9000 Paver should have ample capacity to carry the weight of the paver. Place the trailer in a clear, level area for loading or unloading.

⚠ WARNING Operation Hazard! Work slowly and carefully to avoid accidents when loading and unloading the LeeBoy Model 9000 Paver. 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:
   - Screed position - UP
   - Extension screeds - IN
   - Augers - Make sure they are raised.

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

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

NOTICE Do not let the screed or auger strike the ramp when moving off the ramp. This can cause damage to the LeeBoy Model 9000 Paver.

NOTICE Be sure the auger and screed are in the RAISED position when loading.

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

5. Move the paver forward down the ramp **(Figure 6-26)**.

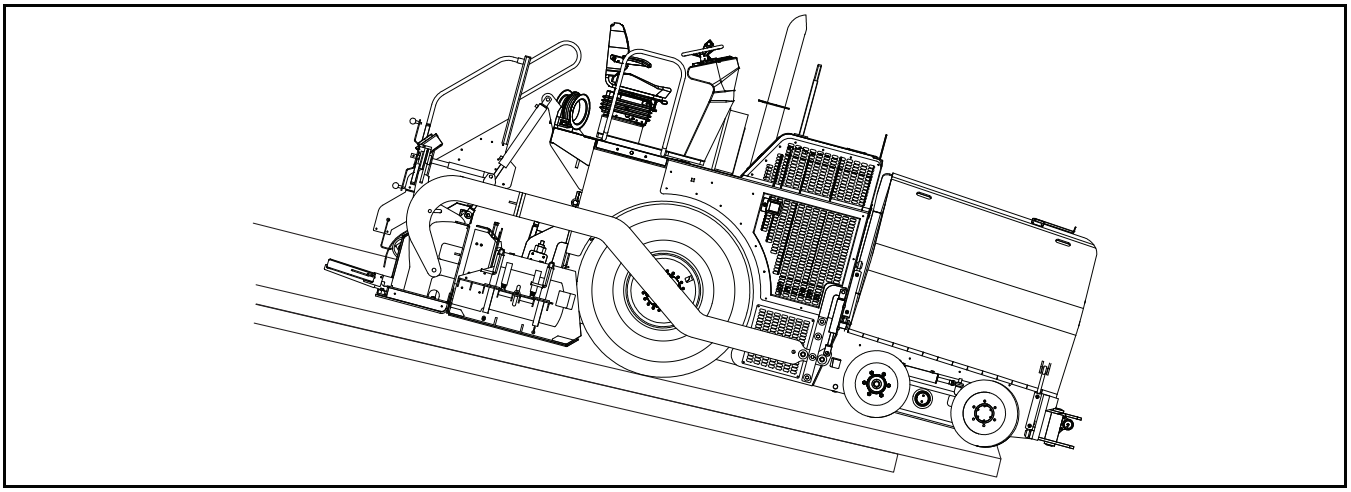
Loading

NOTICE The LeeBoy Model 9000 Paver must be loaded screed end first to prevent damage (Figure 6-26).

1. Move the paver to the base of the ramp. Line up wheels with the ramp.
2. Make sure:
   - Screed position - UP
   - Extension screeds - IN
   - Augers - Make sure they are raised.

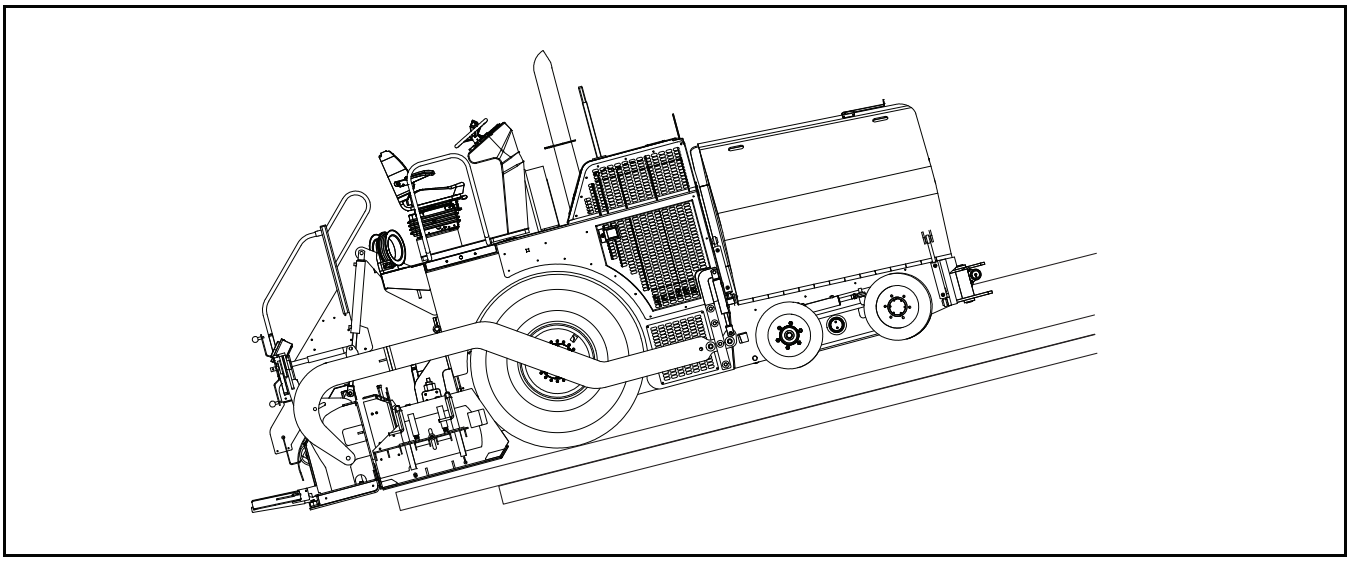
NOTE: Always have a helper on the ground that can assist the operator in moving the paver onto the transport.

NOTICE To prevent an excessive jolt to the LeeBoy Model 9000 Paver, reduce traveling speeds to a minimum before the paver wheels come in contact with loading ramps or an abrupt change in the surface.



Unloading and Loading

Figure 6-26



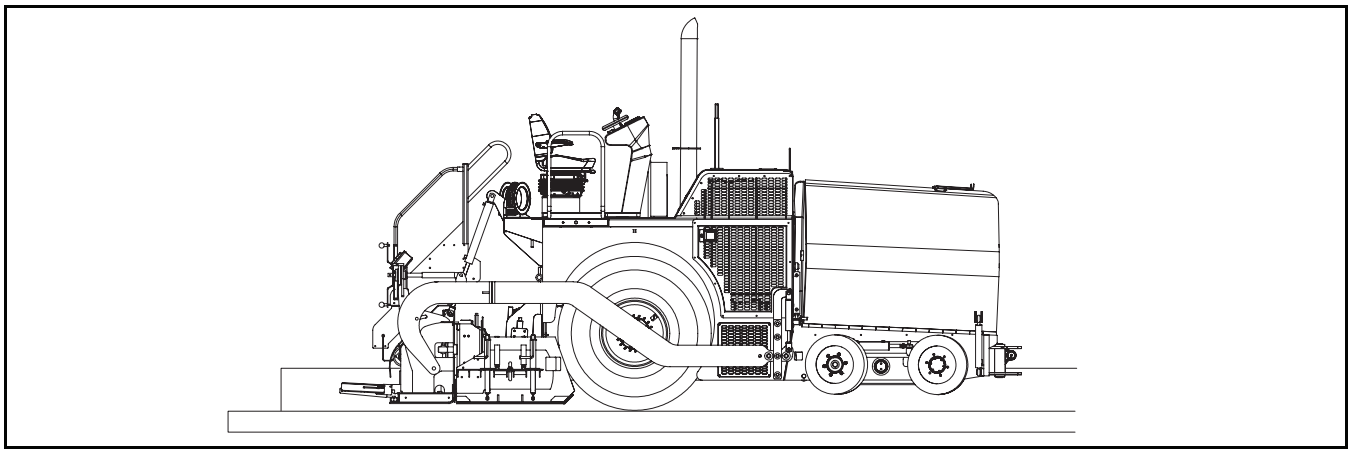
Incorrect Loading Position

Figure 6-27

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

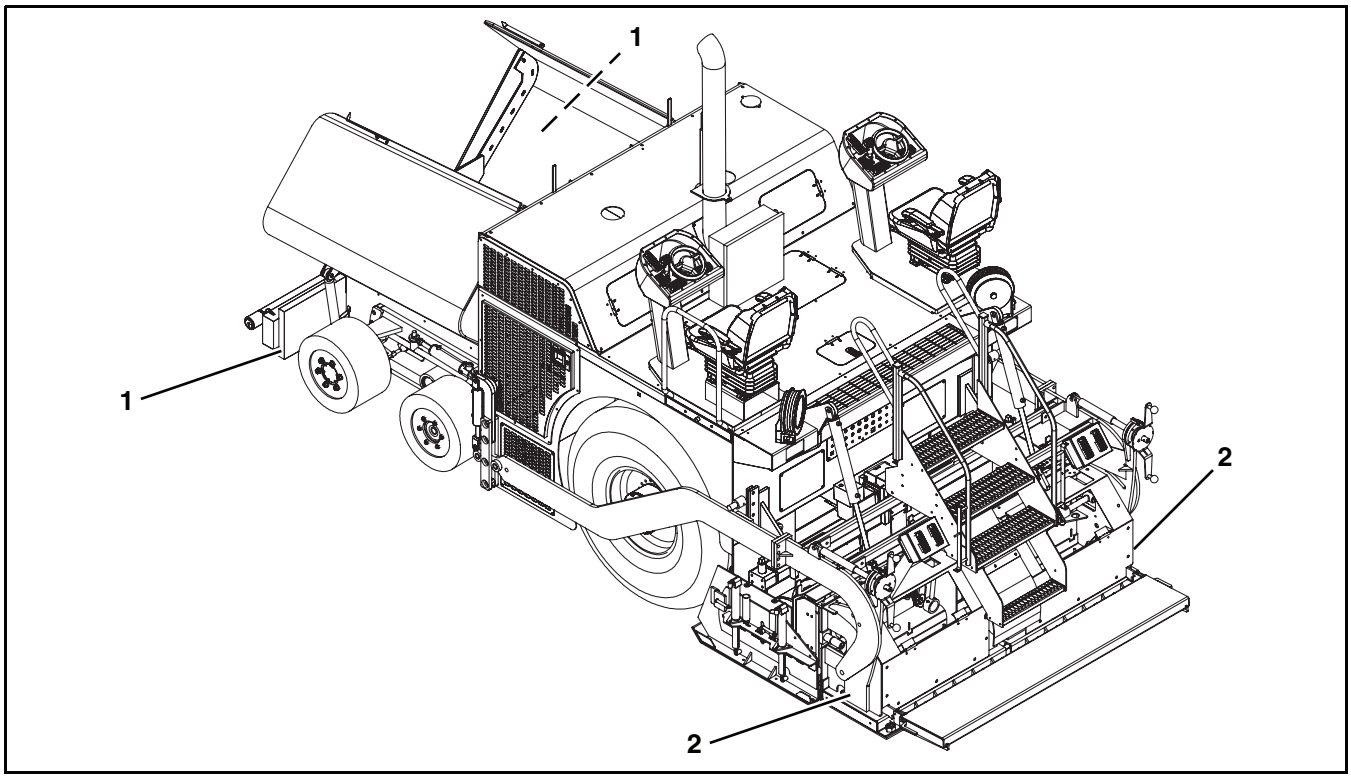
Tie-Down Procedure

1. Position the LeeBoy Model 9000 Paver on the trailer centered from side to side **(Figure 6-28)**.
2. Attach tie-down chain to the hopper end of the paver at the D-rings **(Figure 6-29, 1)**.
3. Attach tie-down chain to the screed end of the paver at the D-rings **(Figure 6-29, 2)**.
4. Place chocks at wheels or tracks.
5. Make sure all chains are tight before moving.



LeeBoy Model 9000 Paver on Transport

Figure 6-28



Tie-Down Points

Figure 6-29

PAVING PREPARATION INSTRUCTIONS

To prevent costly down time, the LeeBoy Model 9000 Paver should be checked thoroughly before each use. Use the list below to assist in checking out the paver.

1. Check engine oil (see engine manual), hydraulic oil, torque hub oil and diesel fuel.
2. Refer to *Periodic Maintenance Schedule on page 7-2* and lubricate as specified. (Some areas or weather conditions may require extra lubrication.)
3. Check hydraulic hoses, fittings, pumps and motors for leaks, excessive wear or damage.
4. Check the ENGINE SAFETY switch (the engine should only start when the joystick forward/reverse lever is in the NEUTRAL position).
5. Check all electrical functions before distributing asphalt.
6. Spray cleaning solvent on any part of the paver that comes in contact with asphalt.
7. Turn on the screed heater and allow it to warm up for 20-25 minutes before beginning paving.

STARTING TO PAVE

NOTICE Only make adjustments to LeeBoy Model 9000 Paver when the screed is warm.

The LeeBoy Model 9000 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 inches (20 cm). This paver has a production rate of approximately 250 feet per minute.

This paver is equipped with electric over hydraulic and manual thickness controls and an 8 ft -15.5 ft (2.44 m - 4.74 m) wide screed. The paver can handle anything from driveways and small parking lots to large parking areas and secondary roads.

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

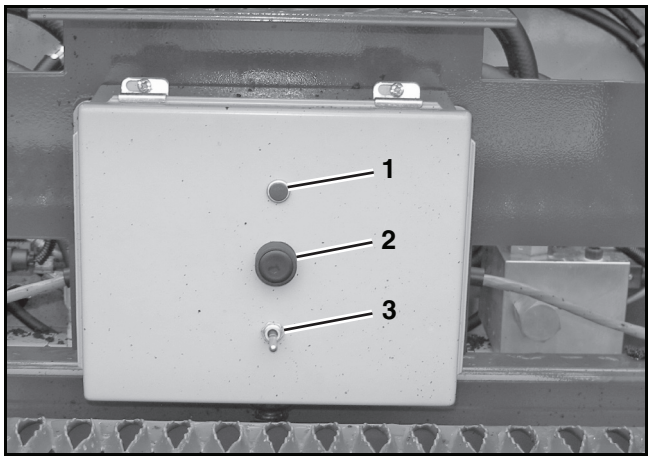
1. Plan the project so that the narrowest passes are first (the basic width of the paver), leaving the widest pass until last.
2. Make sure to use a reference guideline. This can be a curb, gutter, adjacent mat or a string line. It is important that the first pass be straight. It will be the guideline for the following passes.
3. Never run the paver through a pile of mix that has been dumped in front of the paver. Not only will this affect the level of the mat being laid, but damage may result.
4. 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. The truck driver must maintain a light pressure on the truck's brakes to keep the 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. Refer to *Truck Hitch Attachment (Optional) on page 6-23* for using the truck hitch.

5. Always pave in low range.

NOTE: If paving on cool, windy days, it may be necessary to maintain heat on the screed.

6. The screed heater is on a timer. When the light **(Figure 6-30, 1)** goes out, the screed heater is off. To restart the screed heater, push the reset button **(Figure 6-30, 2)**.



Screed Heater Control Box

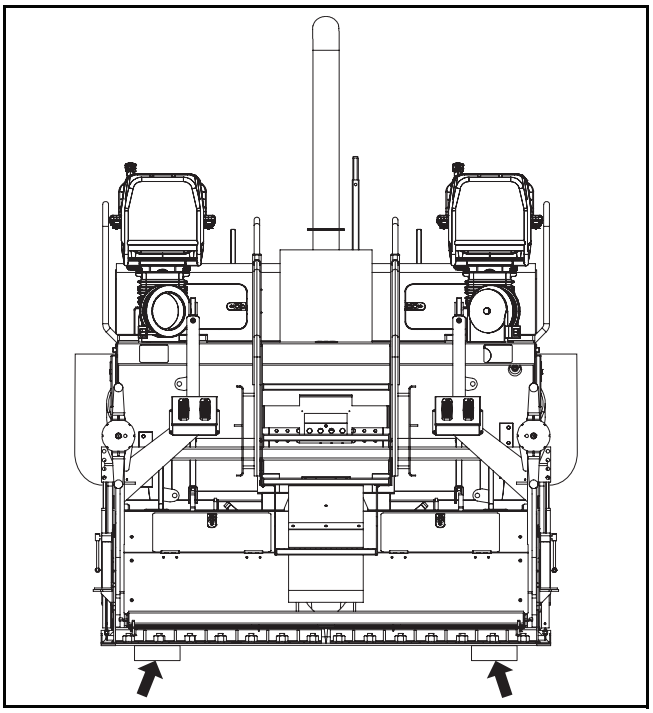
Figure 6-30

1 – ON Indicator Light
2 – Reset Button
3 – ON Switch

⚠ WARNING Entanglement Hazard!
Before starting forward with the LeeBoy Model 9000 Paver, make certain that no one is in front of the paver.

Setting Screed To Pave

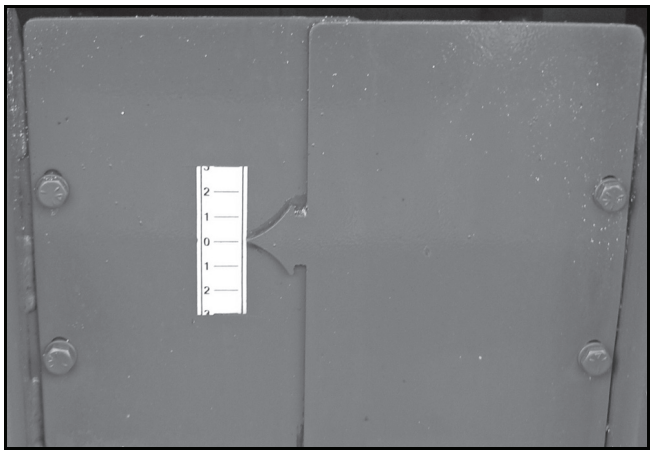
1. Move to the starting position.
2. Extend the screed to the desired width.
3. To set depth, place screed on starter blocks **(Figure 6-31)**.



Starter Blocks

Figure 6-31

4. Level the screed with the flight screws until neutral position is felt. (Neutral position is when the pressure on the flight screw is the same when screwing either clockwise or counterclockwise.)
5. Turn the flight screw about one complete turn clockwise.
6. To obtain the crown or valley desired, push on the CROWN UP or DOWN switch. The screed plate is a one-piece unit that is flexed to provide the required crown setting.
7. Use the gauge **(Figure 6-32)** located at the center of the screed above the standing platform. If the needle is above the zero, you will have positive crown. If the needle is below the zero, you will have negative crown.

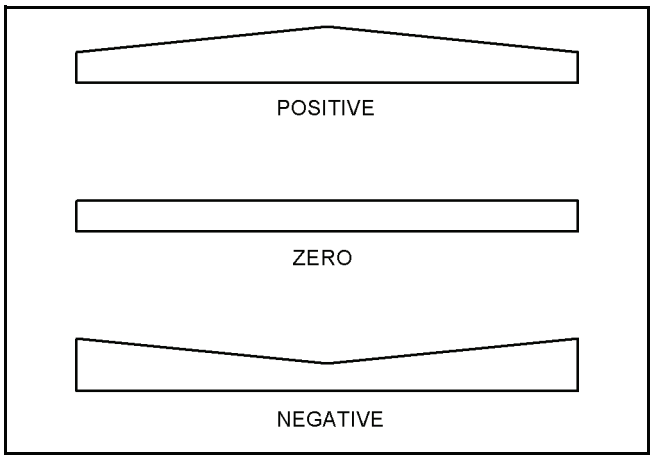


Crown Adjustment Indicator

Figure 6-32

8. 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: 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.



Crown Settings

Figure 6-33

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. As an 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 9000 Paver; however, material flow under the screed plate will be improved.

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.

Setting Screed End Gates

1. On the first pass, turn the depth screw jacks **(Figure 6-34, 1)** to lower the end gate until it is about a 0.25 in. (6.35 mm) below the screed.

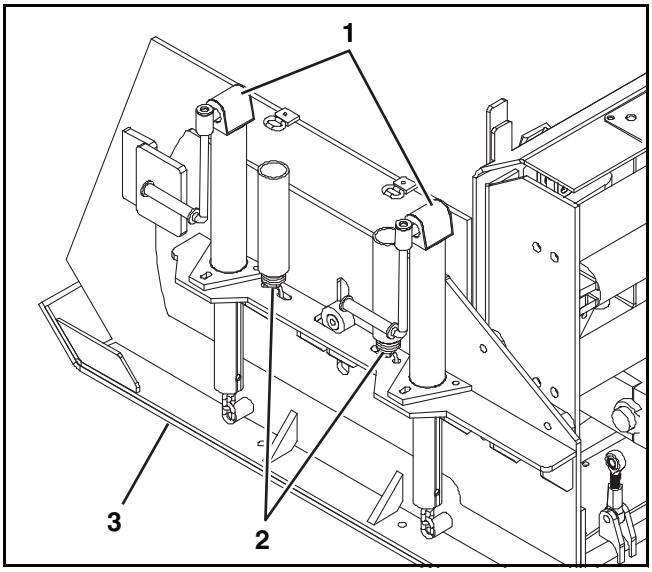
NOTE: Most people run end gates within 1/4 in. (6.35 mm) of flush.

2. Turn the screw jacks on the end gate so the front of the end gate tilts down slightly when the screed is lifted. This will allow the end gate to set itself to grade. The springs **(Figure 6-34, 2)** will lift the runners.

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

3. During operation, if the end gate starts to dig in at front, adjust the angle of attack so the end gate tilts back.
4. When making a joint, the end gate must be set to where it fits flush with bottom of screed.

NOTE: Keep the runners clean. When making a joint, spray cleaning solvent on runners **(Figure 6-34, 3)**.



End Gates

Figure 6-34

1 – Depth Screw Jacks
2 – Springs
3 – Runner

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 main flight screw 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. (Too much adjustment up or down may cause a roller coaster effect.)
7. If making a cold joint, set end gate down about 1/4 in. (6.35 mm); this will give a nice, even edge.

Setting Screed Extensions

(Used when paving over 8 ft. [2.4 m])

The screed extensions should be heated before making adjustments. Use the wrench provided to make adjustments. When the 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.

1. Heat the screed extension before making adjustment to extended width.
2. Adjust tilt on the rear edge of the extension by turning adjustment counterclockwise. This is done to give the same amount of compaction on the extension and slickness as the 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 adjustment clockwise until both the screed and the screed extension produce the same mat texture.

Mat Texture Adjustment

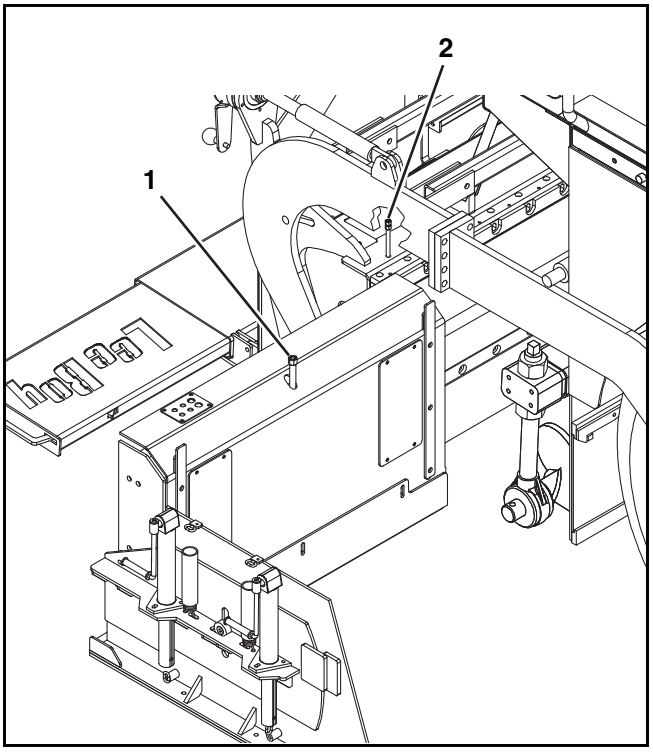
The screed should be heated before making any adjustments. The screeds can be adjusted for a smoother or coarser mat texture by using the mat texture adjusting screws. Make sure the bottom of the screed in sprayed down before making any texture adjustments.

⚠ 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.

1. Spray down the screed and then heat up the screed.

2. There is an adjuster at each end of the main screed **(Figure 6-35, 2)** and an adjuster in the center of the screed extensions **(Figure 6-35, 1)**.



Mat Texture Adjusters

Figure 6-35

1 – Screed Extension Adjuster
2 – Main Screed Adjuster

3. Turning the adjusters **(Figure 6-35, 1 and 2)** clockwise will increase the pressure on the back of the screed. Turning the adjusters counterclockwise will decrease the pressure on the back of the screed.
4. Increasing the pressure on the back of the screed will give you a smoother, slicker finish. Decreasing the pressure will give you a coarser finish.

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

Paver Operation

1. Follow start-up procedures. *See Engine Start-Up on page 6-21*.
2. Position the LeeBoy Model 9000 Paver to the start of the mat. Adjust the screed in accordance with screed leveling instructions.
3. When material starts to discharge from under the screed, the SCREED LIFT switches on the dash should be set to the FLOAT position (only from side operating).
4. 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 the hopper wings fully in when the hopper is full of asphalt. The hopper wings could be damaged.**

5. Set the LEFT CONVEYOR and RIGHT CONVEYOR switches to the AUTOMATIC position and convey material back to screed. Run from one side only, either the left operator's side or the right.
6. Start paving, moving slowly at first so adjustments can be made to screed.
7. To prevent excessive handwork, several feet from the end of the pull, set both the LEFT CONVEYOR/AUGER OFF/MAN/AUTO and RIGHT CONVEYOR/AUGER OFF/MAN/AUTO switches to the OFF position. Return the paver back to starting position to begin next pull. Position and set the screed end gate on the joint side back to 0 in. or flush with the bottom of the main screed. Repeat process as done in the first pull.
8. The paver can operate using one side only. However, material from the opposite side cannot be augered to the working side. The auger center cover prevents this. This method is generally used in doing potholes and patching.

NOTES

Section 7
MAINTENANCE

Before performing any maintenance procedures on the LeeBoy Model 9000 Paver, read the following safety information and review *SAFETY on page 2-1*.

⚠ WARNING Tool Hazard! ALWAYS check before starting the engine that any tools or shop rags used during maintenance have been removed from the area.

ALWAYS use tools appropriate for the task at hand and use the correct size tool for loosening or tightening paver parts.

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

GENERAL INFORMATION

This section gives the necessary procedures for routine and general maintenance on the LeeBoy Model 9000 Paver.

Follow the Periodic Maintenance Schedule Chart and all Maintenance Procedures to maintain the paver in top operating order.

ROUTINE MAINTENANCE

General Information

Maintenance must be a planned program that includes periodic paver inspection and lubrication procedures.

The maintenance program must be done based on the LeeBoy Model 9000 Paver operating hours recorded on the hourmeter or based on the *Periodic Maintenance Schedule on page 7-2*, which is done at time intervals of weekly, monthly or yearly.

Paver Lubrication

Proper lubrication is necessary to maintain the paver at top efficiency. Refer to *9000 Lubrication Points on page 7-21*.

PERIODIC MAINTENANCE

Periodic Maintenance Schedule

System	Item	10 hours Daily	Initial 50 hours Weekly	100 hours Monthly	250 hours Quarterly	500 hours Semi-Annualy	1000 hours Annualy
Paver	Lubricate paver.	X					
Hydraulic	Check oil level.		X				
	Torque hub oil level.			X			
	Replace oil return filter cartridge.				X		
	Replace oil.				X		
	Replace oil suction filter.				X		
	Replace return filter.				X		
	Replace drive torque hub oil.					X	X
Engine Oil and Filter	Replace conveyor torque hub oil.					X	X
	Replace engine oil and oil filter cartridge.			X			
Engine Air Cleaner	Check/clean air cleaner element.			X			
	Replace air cleaner element.					X	
Fuel	Drain contaminant water/deposits from water separator.		X				
	Replace fuel filter cartridge.				X		
Cooling	Clean engine cooling system.					X	
Mechanical	Adjust conveyor drive chains.			X			
	Adjust conveyor flight chains.			X			
	Adjust auger chains.			X			
	Screed extension top guide adjustment.			X			
Electrical	Service battery.						X

Maintenance Schedule

General Information

The Maintenance Schedule lists the recommended time intervals between LeeBoy Model 9000 Paver maintenance inspections and lubrication procedures. *Periodic Maintenance Schedule on page 7-2* gives inspection and lubrication information for the LeeBoy Model 9000 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.

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.

Preventive maintenance on the LeeBoy Model 9000 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 engine operator’s manual for engine service information.

NOTE: For your convenience there is an oil drain hose located inside of the right-hand side cover on the paver. Remove small access cover and stick hose through hole in side.

NOTICE The changing of oil and cleaning of the LeeBoy Model 9000 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.

10-Hour or Daily Routine Maintenance

1. Cleaning the LeeBoy Model 9000 Paver at the end of the working day while the paver is still hot is very important. A paver that is continuously left with mix stuffed in every corner is going to increase maintenance costs. Scrape off mix and spray cleaning solvent or release agent on any place that has come in contact with the mix: screed plate, hopper, etc. Spray down the conveyors while they are running. All cleaning should be performed while the paver is 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.

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.

2. Keep the fuel tank full to keep condensation from forming. Fill at end of day.
3. Perform engine preventive maintenance as described in your engine operator’s manual. Any engine preventive maintenance should always begin with an oil check.
4. Lubricate thickness control screws with grease or anti-seize to keep the control screws working smoothly.

After the First 50 Hours or Weekly Routine Maintenance

1. Check hydraulic oil and add if necessary.
2. To fill, remove top of return filter, located on top of reservoir, and pour through. If you have a hydraulic or air pump, you can fill at charge filter. (Remove cap and fill.)

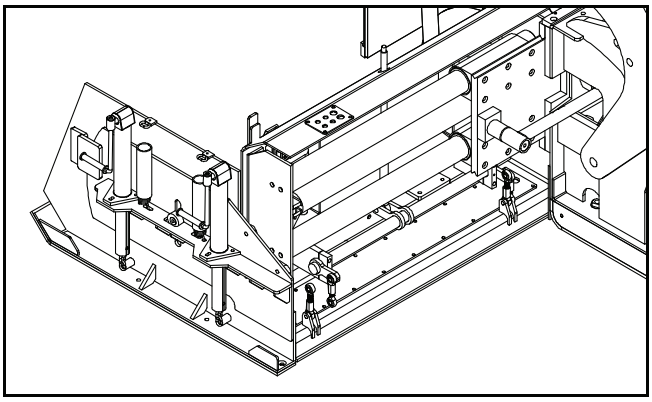
NOTICE **The LeeBoy Model 9000 Paver hydraulic system requires clean, contaminant-free oil. Take care when working with the hydraulic system to ensure it is completely clean. (Use AW #68 Hydraulic Oil.)**

3. Adjust conveyor chains (*See Conveyor Drive Chain Adjustment on page 7-6*). After adjustment, drag chains should be about 1/2" (13 mm) from rear square tubing of main frame. Do not let chains run more than 2" (51 mm) below main frame sides.

⚠ 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.**

4. Anytime the LeeBoy Model 9000 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.
5. Check all battery connections and remove any corrosion that is present. (Check cables daily.)
6. Check air cleaner, if the engine is equipped with a dry type element. Improperly serviced air cleaners quickly wear out engines. In just a few hours a small amount of dirt will wear out a set of piston rings. Refer to your engine operator's manual for service information. Also, perform any other engine preventive maintenance as described in the engine operator's manual.
7. 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 7-1)**. Grease nuts on extension screws.
8. Check auger chains, lubricate and adjust.

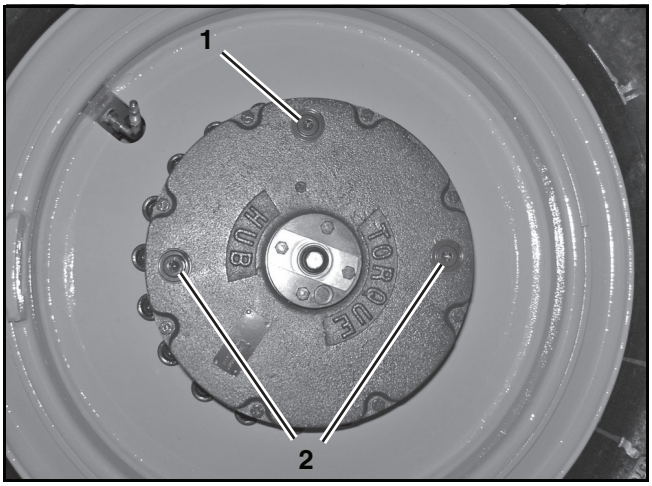


Screed Associated Lubrication Point Locations

Figure 7-1

100-Hour or Monthly Routine Maintenance

1. Position the torque hub so the center plug **(Figure 7-2, 1)** is at the twelve o'clock position. Remove the plug either at the three or nine o'clock position **(Figure 7-2, 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 90 wt. gear oil until oil starts to appear at the other hole. Replace both plugs and repeat process on other torque hub.



Torque Hub Location

Figure 7-2

1 – Center Plug
2 – Side Plugs

2. Replace dry type air filter, if equipped. Refer to your engine operator's manual for service information.
3. Change engine oil. To assure complete removal of contaminants in the oil, perform the oil change while engine is warm.

4. After draining used oil, clean and reinstall drain plug and fill crankcase to the full mark with manufacturer's recommended oil. Change oil filter at every other oil change (15W-40 Motor Oil).
5. Change engine oil and filters.
6. Perform any other engine preventive maintenance as described in the engine operator's manual.
7. Check and adjust all chains, as required *See MAINTENANCE ADJUSTMENTS on page 7-5*.

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 for main pumps.
3. Change return filter on hydraulic tank.

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. Drain the hydraulic tank. A drain plug is located on the bottom of the tank for this purpose. The recommended hydraulic oil is AW #68 Hydraulic Oil.
4. Change oil in conveyor torque hubs; use 90 wt.
5. Change oil in drive torque hubs; use 90 wt.

1000-Hour or Annual Routine Maintenance

1. Drain the hydraulic tank. A drain plug is located on the bottom of the tank for this purpose. The recommended hydraulic oil is AW #68 Hydraulic Oil.
2. Perform the 1000-hour preventive maintenance as described in the engine operator's manual.
3. Change oil in conveyor torque hubs; use 90 wt.
4. Change oil in drive torque hubs; use 90 wt.

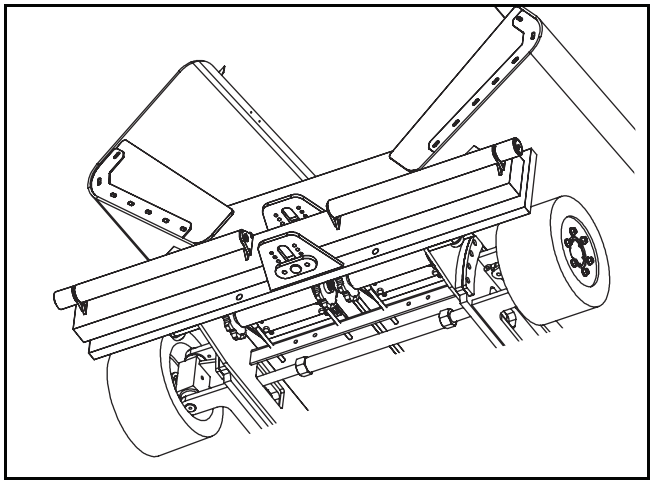
MAINTENANCE ADJUSTMENTS

Conveyor Flight Chain Adjustment

Use the following procedure to make adjustment:

NOTE: Front of LeeBoy Model 9000 Paver must be run up on ramps to perform this adjustment.

1. Loosen the locknut and the bolt holding the adjustment roller assembly.



Adjusting Bolt

Figure 7-3

2. Turn adjusting bolts alternately on both sides of the conveyor. The pressure on the chain will be noticeable as the bolts are tightened. (LeeBoy recommends turning one bolt one half turn, then the other bolt one half turn. Continue alternating tightening until chains are tight.)

NOTE: When correctly adjusted, drag chains should be 1/2" (13 mm) away from rear frame square tube.

3. After the conveyor chain tension is set, tighten locknuts.
4. If the adjusting bolts have been run out, it will be necessary to remove a link in the conveyor chains. This repair should bring the adjusting bolts back to full travel.
5. Repeat Steps 1 through 4 for the opposite side.
6. Grease front and rear conveyor tubes by removing plug and installing a grease fitting to fill tube. This will grease between the two bearings on each side of tube. After filling, reinstall plug.

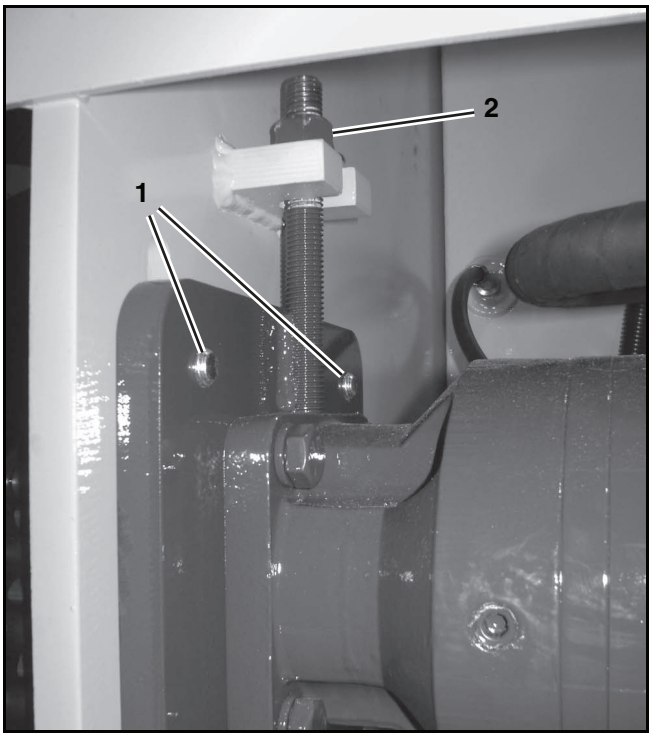
NOTE: If conveyor bar is damaged, the complete link with bar must be removed.

Conveyor Drive Chain Adjustment

1. Operate conveyors.
2. Look at drive chain from side of paver at rear of track. If drive chain has excessive loose motion in it, adjustment is necessary.

⚠ DANGER Entanglement / Sever Hazard. Make sure the paver is shut off and the key is taken out of the key switch. Never perform any adjustments on the paver when it is running.

3. The conveyor drive motor can be accessed by removing the panels on the back of the tractor.
4. Turn the paver off if adjustment is necessary. Loosen the four bolts **(Figure 7-4, 1)** securing the conveyor drive motor to the frame. Turn the adjustment nut **(Figure 7-4, 2)** to loosen or tighten the chain. After chain is adjusted properly, tighten the four bolts securing the motor to the frame.



Conveyor Chain Adjusting Bolts

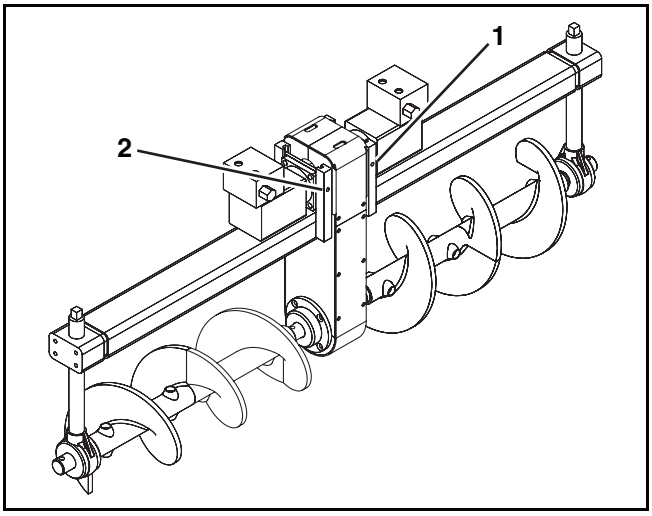
Figure 7-4

1 – Motor Bolts
2 – Chain Adjuster

5. Perform the same check on the opposite conveyor drive chain.
6. Keep chains clean from buildup, adjusted properly and lubricated.

Auger Drive Chain Adjustment

1. The auger chains should be just snug, not loose. To check, remove top part of auger cover. To tighten chains, loosen auger adjusting bolts **(Figure 7-5, 1 and 2)** in slots provided for taking play out of forward and rear motion.



Auger Chain Adjusting Bolts

Figure 7-5

1 – Right Auger Adjusting Bolts
2 – Left Auger Adjusting Bolts

2. To adjust chains for the right auger, use bolts **(Figure 7-5, 2)**. For left auger adjustment use bolts **(Figure 7-5, 1)**. Loosen jam nuts and turn adjuster counterclockwise to tighten chain.
3. Use bolt to adjust tension on chain.
4. Once adjusted, tighten jam nuts on adjusting bolts **(Figure 7-5)**. Once chain adjusters are tight, snug up horizontal adjusters and then jam nuts.

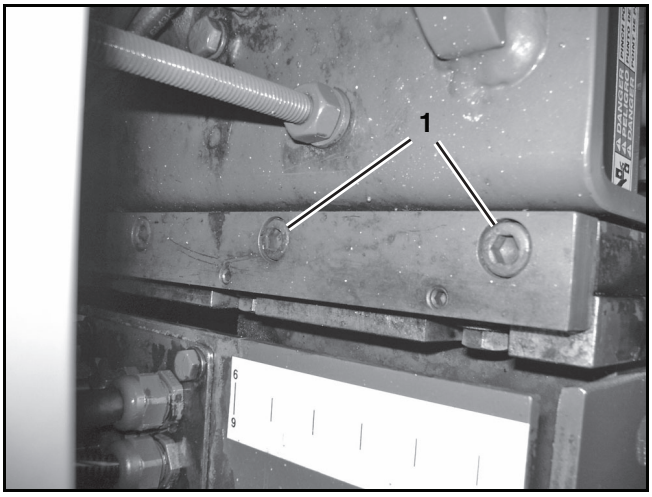
SCREED EXTENSION TOP GUIDE ADJUSTMENT

1. Using the screed LEFT EXTENSION and RIGHT EXTENSION IN/OUT switches, run the screed extension out by setting switches to the OUT position.
2. Locate the nine 1/2" bolts **(Figure 7-6, 1)** that hold top guide on.
3. Loosen bolts holding guide and drive guide down tight against slide by using a blunt punch. Use a jack, and raise extension up so that it fits the bottom guide level. Adjust top guide.
4. Run extension out and grease slide with multipurpose grease before working.

NOTE: Slide should be greased daily to prevent wear.

5. Tighten the nine 1/2" bolts securing guides to specification.

Screed Top Guide Bolts
75 ft-lb (100 N·m)



Screed Extension Top Guide Adjustment

Figure 7-6

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 LeeBoy Model 9000 Paver electrical system is a 12-volt negative ground system. The battery **(Figure 7-7, 1)** is located on the left side of the tractor behind the access panel. You may need to remove the screed arm to remove the battery.

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

NOTE: When replacing the batteries, discard the old batteries properly. Open cover at front of hood standing in hopper to access batteries.

NOTICE **Always turn the master battery switch off when working on the electrical system or welding on the LeeBoy Model 9000 Paver. Damage to electrical components could result.**

Battery

Figure 7-7

7

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, which will quickly burn and pit terminals and posts.

NOTE: The electrical system is a negative ground system. Connect the positive (+) cable to the positive (+) post of both batteries. Connect the ground cable to the negative (-) post of both batteries. 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 buildup 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 1 quart (0.95 L) 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, if necessary for cold weather starting, 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 (+).

ENGINE MAINTENANCE

General Information

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

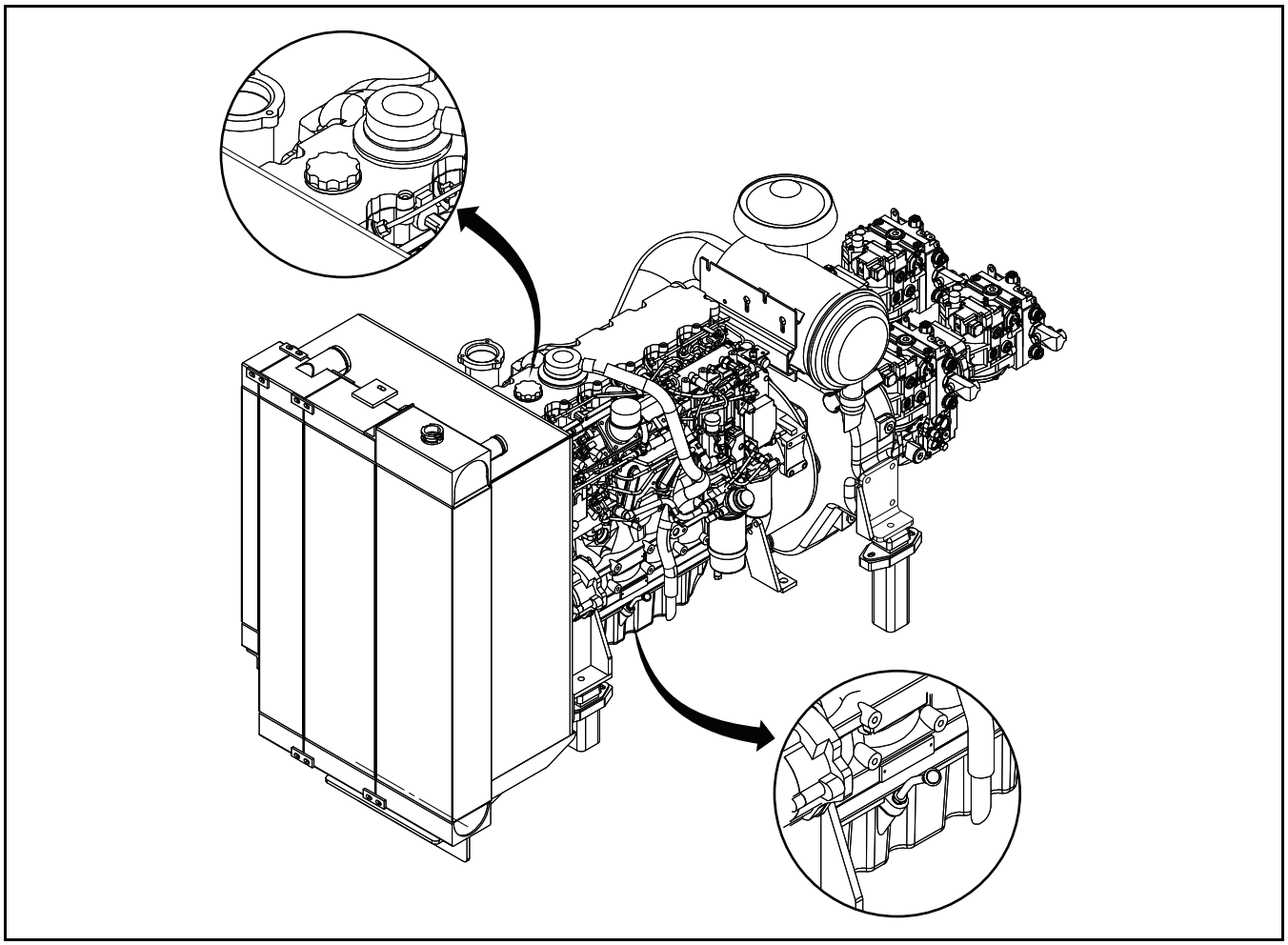
For additional, very specific, engine maintenance information, see the current engine *Operation and Maintenance Manual*.

Engine Lubrication Oil

Checking the 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, put the LeeBoy Model 9000 Paver in a level position and stop the engine. Clean the area around the engine lubrication oil dipstick before removing the dipstick from the engine. Wait 5 minutes after engine shutdown before removing the dipstick from the engine and checking the oil level.



Engine Oil Cap and Dipstick

Figure 7-8

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.

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

Changing the Engine Lubrication Oil

The engine lubrication oil must be changed according to the interval given in the current engine *Operation and Maintenance Manual.*

NOTE: The color of the engine lubrication oil cannot be used as an indication of the need for an 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 Burn Hazard! ALWAYS wear eye protection. If you must drain the engine oil while it is still hot, stay clear of the hot engine oil to avoid being burned.

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

NOTICE Clean the area around the engine lubrication oil dipstick and oil filler cap before removing the dipstick or oil filler cap. Do not allow contaminates to enter the oil systems.

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

1. Remove access cover on right side.
2. Locate oil drain hose and stick through hole in side.
3. Remove cap on end of hose and drain into container sufficiently large to hold the oil.
4. Install cap back on hose and slide hose back inside.
5. Fill the engine with 12 qts (11.3 L) of 15W-40.
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 engine manual.

Changing the Engine Lubrication Oil Filter

The engine lubrication oil filter must be changed when the engine lubrication oil is changed.

⚠ WARNING Burn Hazard! ALWAYS wear eye protection. If you must drain the engine oil while it is still hot, stay clear of the hot engine oil to avoid being burned.

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 direction. Drain and discard the removed filter element.

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

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 to FULL. Also fill the tank to FULL before the paver is stored for the night to reduce the accumulation of moisture in the tank from condensation.

⚠ DANGER Fire and Explosion Hazard! When you remove any fuel system component to perform maintenance (such as changing the fuel filters), put an approved container under the opening to catch the fuel.

- **NEVER use a shop rag to catch the fuel. Vapors from the rag are flammable and explosive.**
- **Wipe up any spills immediately.**
- **Wear eye protection. The fuel system is under pressure and fuel could spray you when you remove any fuel system component.**

⚠ WARNING Fire Hazard! The operator must be off of the paver while fuel is added. Do not smoke 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.**
- **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 elements must be replaced as directed in the current engine manual. Replace the fuel filters using the following general procedure and very specific information given in the current engine manual.

⚠ WARNING Fire Hazard! Diesel fuel is very flammable. Use extra caution.

- **Do not change the fuel filters with the paver running.**
- **Do not change the fuel filters in an area near an open flame.**
- **Do not smoke while changing the two fuel filters.**
- **Do not spill fuel.**

1. Stop the engine.
2. Put a container under the fuel filter before removing the filter element.
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 counterclockwise 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. Put clean fuel on the element rubber gasket.
6. Install the new fuel filter element onto the filter head. Carefully tighten the element by hand only.
7. Repeat the above procedure for the second fuel filter.

NOTICE Tighten the fuel strainers or the fuel filter elements as directed on the filter element by the filter manufacturer. Do not overtighten the fuel filter elements onto the filter heads.

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

⚠ WARNING Fire Hazard! 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 LeeBoy Model 9000 Paver operation, 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.

⚠ WARNING Entanglement Hazard! 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 rear cover air filter.
2. Remove the primary and secondary elements and discard.

3. 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.**

4. Carefully install the new air filter elements into the canister.
5. Install the rear covers on the canister.
6. Check all the clamps for intake air at filter and turbo to make sure everything is tight and in contact.

HYDRAULIC SYSTEM

General Information

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

Checking the Hydraulic Oil Level and Adding Hydraulic Oil to the Hydraulic Oil Reservoir

Check the hydraulic reservoir oil level, one time each day, using the sight glass on the reservoir. Check the oil level when the hydraulic oil is at normal operating temperature only.

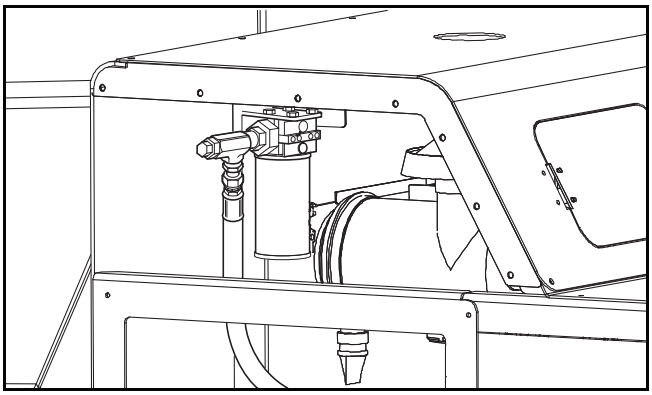
⚠ WARNING **Burn Hazard! Do not loosen or remove the hydraulic oil reservoir filler cap when the hydraulic oil is hot. Always loosen the filler cap slowly to relieve any pressure in the hydraulic oil reservoir. Only loosen the filler cap when the oil is at a warm temperature.**

NOTICE **Never start engine with return filter head top off.**

NOTICE **Do not overfill the hydraulic oil reservoir.**

NOTICE **Do not use unfiltered hydraulic oil. The new hydraulic oil must be filtered before it enters the hydraulic oil reservoir. Keep the oil level of the hydraulic oil reservoir at the correct level. 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.**

NOTE: Located at side of charge filter is a cap on a number 10 JIC fitting **(Figure 7-9)**. This cap can be removed and hydraulic oil can be pumped in with a pump to get proper oil level.



Oil Fitting on Charge Filter

Figure 7-9

Changing the Hydraulic Oil

Changing the hydraulic oil removes the accumulation of dirt, water and mechanical wear particles from the hydraulic oil reservoirs and system. The chemical structure of the hydraulic oil also changes after continuous use in the system and new, clean and filtered oil is a must to help ensure 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.**

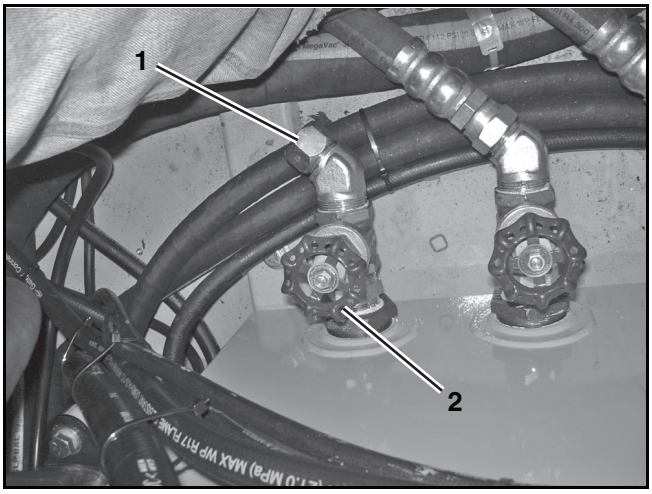
Use the following procedures to change the hydraulic oil in the hydraulic oil reservoirs.

1. Stop the engine. Allow the hydraulic oil to cool until it is at a warm temperature. Slowly loosen, and then remove, the hydraulic oil reservoir filler cap **(Figure 7-10, 2)**. Put a clean, lint-free cloth over the reservoir fill tube opening and secure in place with tape.

⚠ WARNING **Burn Hazard! 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. Only loosen the filler cap when the oil is at a warm temperature.**

2. The capacity of the reservoirs is approximately 60 gallons. Make sure you have the proper size container to drain the fluid into.

3. The drain valve is located at the front of the left side hydraulic reservoir. The reservoirs are connected together so they will both drain out the left side reservoir.
4. Remove the cap **(Figure 7-10, 1)**. Attach a drain hose to the fitting and route to a suitable drain pan.
5. Open the gate valve **(Figure 7-10, 2)** and allow the reservoirs to drain. Once reservoirs are drained close gate valve and remove drain hose. Install cap on the fitting.



Hydraulic Oil Tank

Figure 7-10

1 – Plug
2 – Gate Valve

6. Carefully remove the cloth from the hydraulic oil reservoirs' fill tube openings.

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

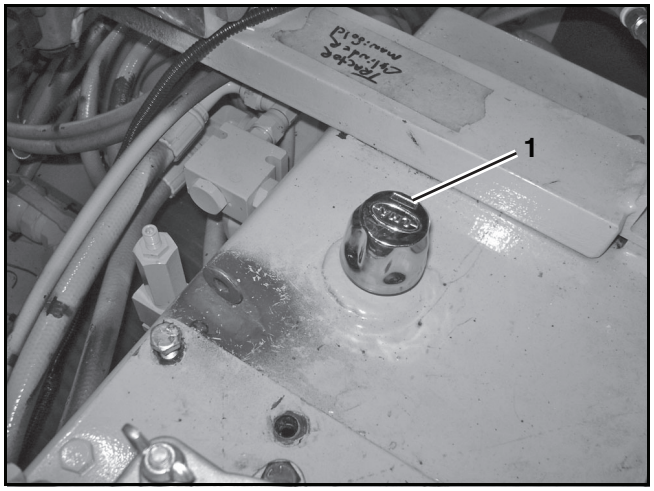
7. Remove the strainer on the tank.
8. Fill the reservoirs with the correct, filtered hydraulic oil. Fill both reservoirs through the filler necks. The tanks are connected and will eventually equalize.

NOTICE Do not overfill the hydraulic oil reservoir with oil.

NOTE: Cold oil level should be about 1/2" to 3/4" (13 to 19 mm) below full level on sight gauge.

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

9. Install the hydraulic oil reservoir filler cap **(Figure 7-11, 1)** onto the reservoir filler neck and tighten securely.



Hydraulic Filler Cap

Figure 7-11

10. Start the engine using the correct procedures given in *Engine Start-Up on page 6-21* of this manual. Check the hydraulic system for any leaks.

⚠ WARNING Exposure Hazard! Do not use your 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 your eyes by wearing safety glasses.

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

Changing the Hydraulic Oil Return Filter Element

The oil strainer is mounted in the oil filler opening under the filler cap.

⚠ WARNING Burn Hazard! 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. Only loosen the filler cap when the oil is at a warm temperature.

1. Remove the hydraulic oil filler cap **(Figure 7-10, 2)**.
2. Remove the three screws securing the element, then remove the element.
3. Install the new element and place the spring in the head.
4. Fill the hydraulic oil reservoir with the correct, filtered hydraulic oil until proper level is in sight gauge before fill cover is placed on.

NOTICE Do not overfill the hydraulic oil reservoir with oil.

5. Check the oil level in the hydraulic oil reservoir again. Add oil if needed.
6. Install the hydraulic oil reservoir filler cap onto the reservoir filler neck and tighten securely.

Removal and Installation Procedures

2-Speed Motor

Removal

1. Drive LeeBoy Model 9000 Paver onto ramp to access underside.
2. Label and disconnect all hydraulic hoses. Plug and cap fittings.
3. Remove two bolts holding motor to torque hub.
4. Slide motor out of torque hub.

Installation

1. Lubricate O-ring and install on motor.
2. Slide motor into torque hub.
3. Attach motor to torque hub with two bolts. Tighten bolts to specification.

2-Speed Motor Mounting Bolts
120 ft-lb (163 N·m)

4. Clean all hoses and fittings and reconnect hoses.
5. Fill oil tank through the charge filter fill port. This will charge motor back with oil.
6. Start engine and let run for about 10 minutes before moving the paver. This will prevent damage to the new motor due to a dry start.
7. After completing installation, check hydraulic oil level.

Drive Torque Hub

Removal

1. Follow directions for removing 2-speed drive motor.
2. Use a hoist to hold torque hub from falling.
3. Remove bolts from rear of torque hub. Slide torque hub out with hoist.

Installation

1. Use hoist to place torque hub back.
2. Place loctite on bolts and install bolts for holding torque hub in place. Tighten bolts to specification.

Torque Hub Bolts
180 ft-lb (244 N·m)

3. Follow directions on installing 2-speed drive motor.

NOTE: Rotate torque hub so that the fill plug is at 12 o'clock and one of the oil level plugs is at 3 o'clock or 9 o'clock.

4. Fill torque hub with 90 wt. gear oil. Oil level is to center of torque hub.

Rear Conveyor Shaft, Bearings and Sprockets

Removal

1. Place LeeBoy Model 9000 Paver over a pit or on a ramp.
2. Disconnect main conveyor chains underneath the equipment. Disconnect any link. Rotate chains out of the way of the assembly.
3. Remove chain from torque hub to conveyor sprocket.
4. Remove bolt and washers holding sprocket on.
5. Remove sprocket and bearing from frame side.
6. Remove inner snap ring at inner sprocket.
7. Shaft and outer conveyor sprocket should slide out through frame side.

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

NOTE: Replaced bearings in tubes must have inner seals removed so that grease can enter into the bearing area from grease fitting.

8. Replace bad or damaged parts.

Installation

1. Place conveyor shaft into inner conveyor sprocket.
2. Place snap ring on shaft.

NOTE: Outer conveyor sprocket must be aligned with inner sprocket.

3. Rotate outer sprocket on shaft until properly aligned.
4. Reinstall outer bearing and outer sprocket.
5. Loctite bolt and tighten to specification.

Rear Conveyor Sprocket Bolts
180 ft-lb (244 N·m)

6. Place conveyor and drive chains back on and adjust.
7. Grease bearings by removing plugs in tubes and place grease fitting in tubes, then grease. Fitting applies grease in between two bearings on each side. When finished, remove fittings and reinstall plugs in tubes.

Front Conveyor Shaft, Bearings and Sprockets

Removal

1. Place the paver over a pit or on a ramp.
2. Disconnect main conveyor chains underneath the equipment. Disconnect any link. Rotate chains out of the way of the assembly.
3. Loosen idler adjusting bolts and remove hold-down bolts. Assembly will come out at this time.
4. Remove damaged or worn parts and reinstall.

NOTE: Replaced bearings in tubes must have inner seals removed so that grease can enter into the bearing area from grease fitting.

5. Replace bad or damaged parts.

Installation

1. Reverse removal procedure and place back in the paver.
2. Connect main conveyor chains and adjust tension. Make sure all sprocket bolts are tightened to specification.

Front Conveyor Sprocket Bolts
180 ft-lb (244 N·m)

Tighten jam nuts on adjusting bolts.

3. Grease bearings by removing plugs in tubes and place grease fitting in tubes, then grease. Fitting applies grease in between two bearings on each side. When finished, remove fittings and reinstall plugs in tubes.

Conveyor Wear Plate

Removal

1. Place paver over a pit or on a ramp.
2. Remove all guards over conveyor floor and front lip panel.
3. Remove main conveyor chains from paver.
4. Remove front conveyor idlers from paver.
5. Remove bolts from rear tube assemblies and let assembly be held only by outer bearing.
6. Remove 16 bolts that hold floor into frame.
7. Lift wear plate out of paver with hoist.

Installation

1. Clean frame where conveyor plate lays.
2. Place new conveyor plate in frame.
3. Loctite the sixteen 5/8" bolts and tighten conveyor plate to frame. Tighten bolts to specification.

Conveyor Wear Plate Bolts
180 ft-lb (244 N·m)

4. Place rear drive assembly back in place.
5. Loctite bolts and tighten to specification.

Rear Drive Assembly Bolts
180 ft-lb (244 N·m)

6. Tighten adjuster against assembly to keep from slipping.
7. Place front idler assemblies back in place.
8. Place main conveyor chains in and adjust chain tension. Once adjusted, tighten all idler hold-down bolts to specification.

Idler Hold-Down Bolts
180 ft-lb (244 N·m)

9. Adjust tension bolts tight against assembly when done and lock jam nuts.
10. Place all guards over conveyor chains and front lip panel.

11. Grease bearings (idler and drive tubes) by removing plugs in tubes. Place grease fitting in tubes, then grease. Fittings apply grease in between two bearings on each side. When finished, put plugs back in tubes.

NOTE: Replaced bearings in tubes must have inner seals removed so that grease can enter into the bearing area from grease fitting.

Conveyor Drive Motor

Removal

1. Remove hydraulic hoses from motor.
2. Remove two bolts holding hydraulic motor in torque hub.
3. Slide drive motor out of torque hub.

Installation

1. Check O-ring on new or repaired drive motor. Lubricate O-ring before installing.
2. Slide new or repaired drive motor into torque hub.
3. Secure with two bolts.
4. Reconnect hydraulic hoses to motor.
5. Check for leaks.

Conveyor Torque Hub

Removal

1. Remove hydraulic hoses from motor.
2. Remove two bolts holding hydraulic motor in torque hub.
3. Slide drive motor out of torque hub.
4. Loosen adjusting bolts on torque hub slide.
5. Disconnect chain from torque hub to conveyor drive sprocket.
6. Slide torque hub up and out.
7. Remove sprocket mounted on torque hub.
8. Remove bolts in slide mount to remove from torque hub.

Installation

1. Replace or repair torque hub.
2. Place slide mount back on torque hub.
3. Loctite bolts and tighten.
4. Grease splines before installing sprocket.
5. Slide sprocket back onto torque hub shaft.
6. Loctite and tighten bolts holding sprocket.
7. Grease slide then slide torque hub back into slide holders.
8. Place chain back on sprocket and adjust for 1/4" (6.4 mm) slack.
9. Check O-ring on new or repaired drive motor. Lubricate O-ring before installing.
10. Slide new or repaired drive motor into torque hub.
11. Secure with two bolts.
12. Reconnect hydraulic hoses to motor.
13. Fill torque hub with 90 wt. gear oil. Fill through top plug until oil runs out of plug at 3 o'clock or 9 o'clock position. Once filled, reinstall seal plugs and tighten.
14. Check for leaks.

Inner Auger Drive Shaft

Removal

1. Remove stub shaft sliding into outer end of auger tube assembly by removing the last bolt holding auger sections.
2. Remove auger end mount holder by removing the four top bolts.
3. Remove two inner auger section bolts.
4. Auger assembly will slide off of inner drive shaft.
5. Remove auger cover that covers chains.
6. Disconnect chains by loosening adjuster that pushes up on auger motor slide and the horizontal adjuster pushing in on slide.
7. Remove trunnion cap at bottom of auger bearing. This will let inner drive shaft or bearing be replaced.

Installation

1. Place new shaft with sprocket or bearing back in paver. Tighten trunnion cap to specification.

Trunnion Cap
40-50 ft-lb (54-68 N·m)

NOTE: If trunnion clamp is too tight, bearing will fail.

2. Clean area at auger cover where inner pivot rotates.
3. Grease and slide inner cutoff pivot mount back on paver.
4. Slide auger assembly on inner drive shaft and place bolts through auger sections with teflon washers between section and auger tube.
5. Bolt auger end mount back on with four 1/2" bolts.
6. Grease inside of bushing.
7. Place stub shaft back into outer end of auger tube using the one auger section bolt.

8. Place chains back on and adjust for 1/4" (6.4 mm) slack in chain.
9. Before installing covers, spray chains well with chain lube.

⚠ WARNING Sever Hazard! Do not allow hands or clothing near chain or auger while engine is running.

10. Slotted area in top of auger cover is there for spraying through top to lubricate chains while augers are rotating.

Auger Motor

Removal

1. Remove covers over chains.
2. Loosen auger motor and remove chain.
3. Label and disconnect hydraulic hoses and plug fittings.
4. Auger motor mount with motor will slide up and out of slide holder for motor replacement or repair.
5. Slide sprocket off and remove mount.

Installation

1. Place auger motor mount and sprocket onto motor.
2. Place loctite on bolts and tighten.
3. Connect chain, adjust for 1/4" (6.4 mm) slack in chain and lubricate with chain lube.
4. Connect hydraulic hoses and check for leaks.

NOTE: If auger bypass manifold was removed when reinstalling, use small amount of grease to hold O-rings in grooves. Slide bolts through mounting holes and start in threads of motor before touching manifold to motor. This will eliminate O-ring damage.

Rear Hopper Wing Cylinders

Removal

1. Fold hopper wing all the way in.
2. Prop wing closed so that wing will not fall open after cylinder is disconnected.
3. Open front cover on hood to access round cover at bolt location at rod end of cylinder.
4. Remove top bolt through opening.
5. Fold cylinder out and disconnect hoses.
6. Disconnect mount at blind end of cylinder and slide cylinder off.

Installation

1. Slide cylinder on bottom mount.
2. Loctite bolts and attach cylinder to mount.
3. Clean hydraulic hoses and connect to cylinder.
4. Extend cylinder so that bolt in rod end lines up with mount.
5. Loctite bolt and tighten.
6. Attach round cover in hole with bolt and close hood.

Replacing Hood

Removing Hood

1. Remove muffler.
2. Disconnect air breather boot from turbo.
3. Disconnect hose from blower to chrome stack.
4. Loosen jam nuts on front bolts and remove front, rear and side bolts attaching hood.
5. Unplug front work lights and beacon.
6. Remove bracket from dash to hood.
7. Remove chrome stack and attach lift chains to D-rings to lift hood.

Installing Hood

1. Lift hood into position, then bolt hood back onto paver.
2. Lock the front three bolts with the jam nuts.
3. Fasten brace between hood and dash.
4. Connect lights and beacon wires.
5. Connect air breather boot to turbo and tighten.
6. Bolt chrome stack to hood and connect blower hose.
7. Slide muffler back onto exhaust manifold.
8. Start engine and let run for about 10 minutes before moving the paver. This will prevent damage to the new pump due to a dry start.
9. After completing installation, check hydraulic oil level.

Pumps and Double Pump Drive

⚠ WARNING Crush Hazard! Pumps and pump drive are very heavy. Use hoist to lift pumps or pump drive.

Removing Pumps

1. Turn all valves off on hydraulic tank.
2. Tag and disconnect hydraulic hoses on pumps that are to be removed.
3. Rear piggyback pumps must be removed before main drive or conveyor pump can be removed from pump drive.
4. Disconnect wires at EDCs if removing drive or conveyor pumps.
5. Attach hoist to pump being removed.
6. Remove bolts holding main pumps to pump drive and slide out faulty pump.

Removing Pump Drive

1. Attach hoist to pump drive.
2. After all pumps have been removed, remove 12 bolts that hold pump drive to engine.
3. Slide pump drive out of splined coupling on engine.

Removing Inner Drive Coupling

1. Any time pump drive is removed, check drive coupling for wear or damage.
2. Remove all bolts and pull coupling out of flywheel.

Installing Drive Coupling

1. Clean flywheel and threaded bolt holes with ether. This will provide a clean surface for loctite to seal.
2. Install new drive coupling in flywheel.
3. Loctite bolts and torque to manufacturer's specifications.
4. Insert grease in coupling splines and on pump drive splines.

Installing Pump Drive

1. Be sure splines are greased.
2. Slide pump drive into drive coupling.
3. Torque bolts to manufacturer's specifications.

Installing Pumps

1. Grease splines on pump and pump drive.
2. Place O-rings or gaskets on pumps and slide pumps into pump drive.
3. Loctite and torque pump bolts to manufacturer's specifications.
4. After installing pumps, fill pump drive with 80W-90 Gear Oil. Check level with dipstick.

Installing Piggyback Pumps

1. Check O-rings and place piggyback pumps into main pumps.
2. Torque bolts to manufacturer's specifications.
3. Connect all wires to proper locations as marked.
4. Be sure hoses and fittings are clean, then reconnect all hoses.
5. When all hoses are connected, turn all valves back on.

NOTE: Before starting engine and checking for leaks, drive and conveyor pumps must be charged with oil to prevent damage from dry start-up.

6. Fill oil tank through the charge filter fill port. This will charge pumps back with oil.

Screed Extension Wear Plates

Removal

1. Run extension out fully.
2. Remove endgate by disconnecting tilt screw and loosen lock on the 7/8" jam nut.
3. Remove jam nut. Endgate will drop forward out of slot and slide off of stud.
4. Remove bolts out of lower adjustment screws on top of wear plate.
5. Remove burner.
6. Lower screed to ground and pull front pivot pin out.
7. Lift screed and wear plate should be disconnected.

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. Attach adjustment screws to new wear plate.
4. Connect burner.
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.

Screed Main Wear Plates

Removal

1. Remove walkboards.
2. Remove screed lids.

NOTE: Once walkboards are removed, lids will slide out.

3. Remove or torch the 20 bolts holding wear plate to screed frame.
4. Before raising screed off of wear plate, clamp center of crown gussets so that screed frame stays flat.
5. Raise screed off of wear plate.

Installation

1. Clean screed frame.
2. Set screed frame down onto new wear plate, letting cylinders carry most of weight. This will let plate be moved for alignment of bolts.
3. Place five bolts in front left side first.
4. Rotate crown in and out so that five bolts in right side line up.

NOTE: You may need to clamp or pry around to line up.

5. Once these bolts are in place, bolt rear of plate up to frame assembly.
6. 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.
7. Let screed all the way down and torque bolts from center out, two on left side then two on right side until all bolts are tightened to specification.

Screed Wear Plate Bolts
80 ft-lb (108 N·m)

8. Install screed lids and walkboards.

Auger Conveyor Height Min / Max Pile Height Pod Calibration

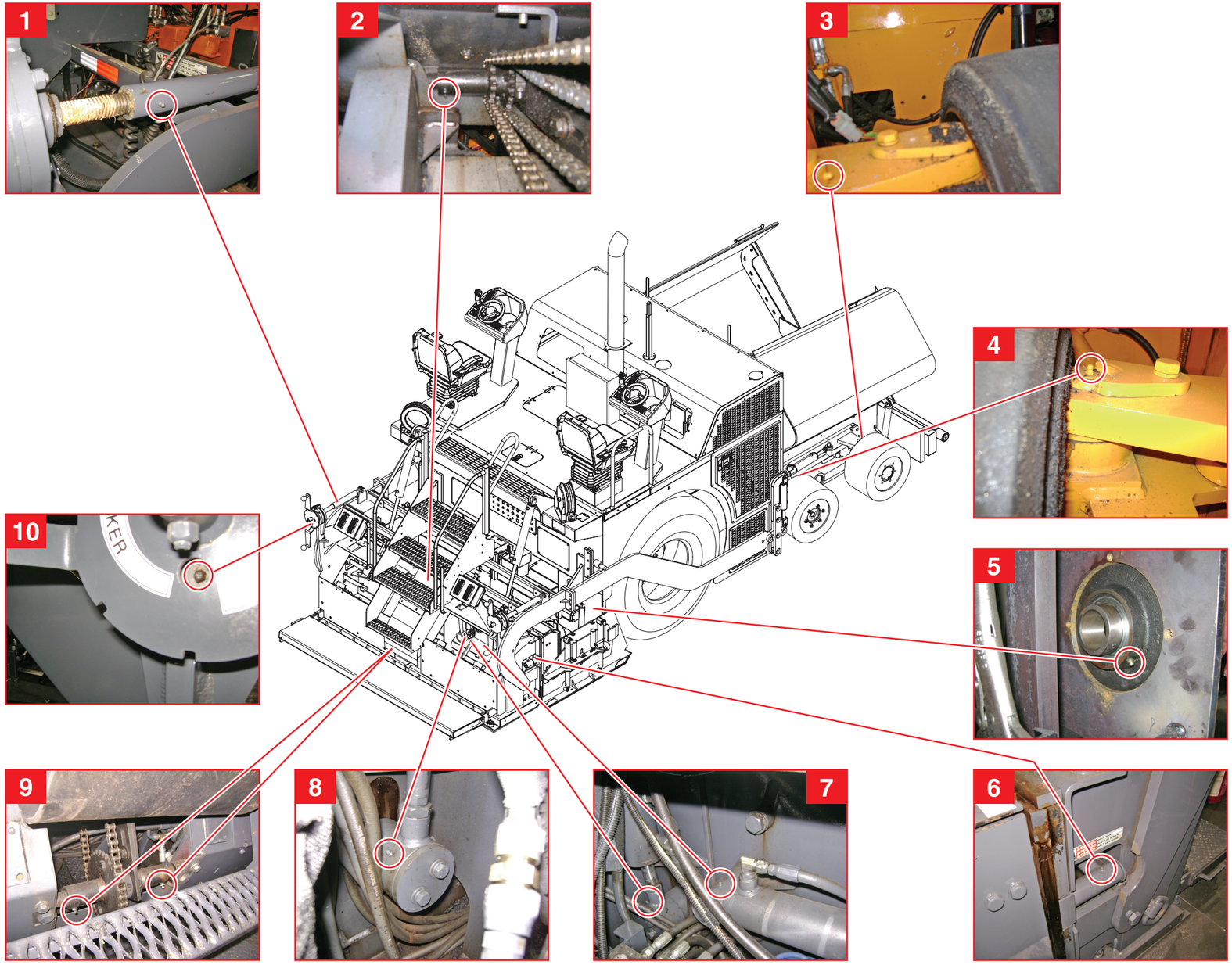
If the pile height knob is turned to Full Max Pile Height and the auger/conveyor stops turning, then calibration of POD needs to be performed.

Calibration Procedure

1. Turn pile height knob to center position.
2. Crank engine and turn conveyor on at side needing to be recalibrated.
3. While conveyor is turning, unplug pile height POD at weather pack connector and plug back in. This tells micro to go to calibrate.
4. Turn pile height knob all the way counterclockwise for about 3 seconds, then turn fully clockwise for an additional 3 seconds. POD should be calibrated.
5. Test to make sure calibration is correct by turning POD all the way clockwise. If conveyor and auger stay on, it is calibrated. If not, recalibrate by performing Steps 1 through 4.

NOTES

9000 LUBRICATION POINTS



Daily or Every 10 Hours

Ref.	Description	No. of Fittings	Comments
2	Conveyor Drive Shaft	1	One Per Side
9	Auger Drive Shaft	1	One Per Side

Weekly or Every 50 Hours

Ref.	Description	No. of Fittings	Comments
1	Flight Screw Shaft	1	One Per Side
3	Steering Cylinder Pivot	1	One Per Side
4	Front Wheel Kingpin	1	One Per Side
5	Conveyor Shaft Bearing	1	One Per Side - Located on inside panel opposite conveyor main chain/ sprocket behind rubber flotation tire.
6	Screed Auxiliary Extension Pivot	1	One Per Side
7	Screed Extension and Crown Cylinder	2	Two Per Side
8	Slope Cylinder	1	One Per Side
10	Flight Screw Bushing	1	One Per Side

Figure 7-12

NOTES

Section 8
TROUBLESHOOTING

Before performing any troubleshooting procedures on the LeeBoy Model 9000 Paver, review *SAFETY on page 2-1*.

GENERAL

The troubleshooting chart below identifies the most common symptoms of failure. Use this chart to help identify the failed component. There will be a separate troubleshooting guide which will cover the fault codes shown on the display unit.

Table 8-1. Troubleshooting Chart

SYMPTOM	CAUSE	REMEDY
Engine does not start	Defective batteries or low battery charge	Replace or charge battery as applicable.
	Battery master switch not in ON position	Set switch to the ON position.
	Insufficient fuel supply	Fill fuel tank.
	Fault in engine	Refer to CAT engine manual.
	Wires not making good connection on solenoid	Make sure wires are tight.
	Solenoid plunger sticking	Clean plunger.
	Fuel solenoid coil defective	Replace coil.
	Starter or solenoid faulty	Replace or rebuild
	Joystick NEUTRAL switch defective	Replace
	CAT starter 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/PAUSE switch faulty	Check RUN/PAUSE switch.
	E-STOP button down	Reset E-STOP button.

SYMPTOM	CAUSE	REMEDY
Paver will not run straight	One of the hydraulic drive motors out of adjustment	Readjust motors.
	Steering control not centered	Center steering control.
	Steering not calibrated	Calibrate steering.
	Travel pump defective	Replace pump or rebuild.
Paver will not pull on one or both sides	Faulty hydraulic motor	Repair or replace
	Pump pressure too low	Pump pressure should be 3000 PSI.
	Faulty torque hub	Rebuild or replace
Engine runs but no hydraulics	Engine rpm too low	Increase engine speed.
	E-STOP button down	Reset E-STOP button.
	Pump drive coupling faulty	Replace
	Defective pump	Replace
Auger hanging up or will not turn	Chain too loose	Adjust
	Broken chain	Replace
	Faulty motor	Replace
	Solenoid valve defective	Replace solenoid.
	Asphalt set up around auger	Keep clean and oiled.
Screed extensions binding	Asphalt set up around extension	Keep clean and oiled.
Screed extension loose (work up and down)	Out of adjustment	Adjust hold downs on extensions.
Screed leaving streak down center of pavement	No lead crown in screed	Crown leading edge of screed.
	Screed worn out	Replace
	Extensions set too low	Adjust extensions. Always start out in the morning with extensions all the way up, no down pressure.
	Screed not heated properly	Set propane pressure at 15 PSI for about 5 to 8 minutes.
Screed leaving ripples	Extensions set too low	Readjust extensions.
	Extensions work up and down	Adjust top guide.
	Extension rod bushings worn	Replace bushings.
Flight screw locking up	Twisting screed too far	Give screed time to react.
	Screw seized	Replace screw.
Flight screw bearing damage	Twisting screed too far	Give screed time to react.
	Loading and unloading	Check ramps for easy access.

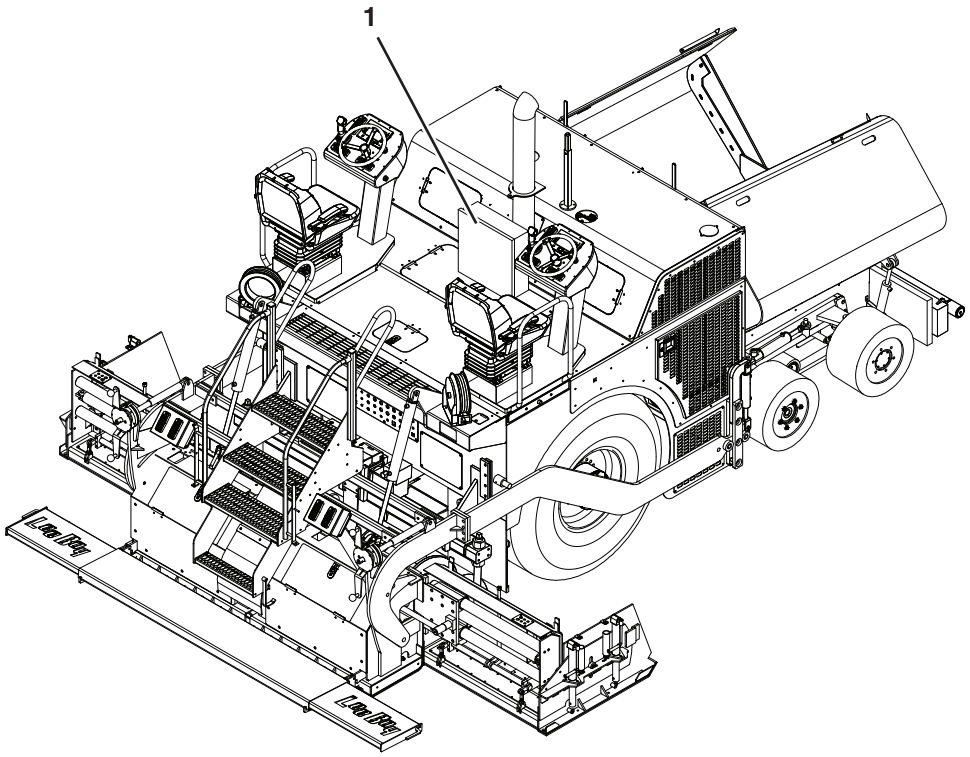
SYMPTOM	CAUSE	REMEDY
Hydraulic oil running out of breather cap	Hydraulic oil tank overfilled	Drain 5 to 6 in. (12.7 to 15 cm) from top of tank.
	Air in bottom of tank	Bleed if you don't have vent hose.
	Oil overheated	Slow paver down about 10% to 15%.
		Check oil cooler and thermostat.
Hydraulic pump cavitating or lost power	Low level in hydraulic tank	Fill
	Clogged filters	Replace
	Suction hose loose	Retighten
	Charge pump worn	Rebuild
Conveyor does not work on one or both sides	Defective AUGER/CONVEYOR switch	Replace switch.
	Solenoid defective	Replace solenoid.
	Conveyor drive chain broken	Repair chain.
	Defective conveyor motor	Replace motor.
	Rear conveyor shaft broken	Replace conveyor shaft.
Conveyor flight bars hang up	Flight chains too loose	Adjust. If adjusted all the way and a link is removed, you must install a 1/2 link.
	Conveyor drive chain too loose	Adjust every 100 hours.
Loss of power to drive conveyors or augers	Relief out of adjustment	Check pressure. Drive - 3000 PSI, feeders - 2400 PSI, augers and cylinders - 2000 PSI.
	Piston groups worn out	Replace
	Auxiliary pump worn out	Replace
Screed does not raise or lower	Defective solenoid	Replace solenoid.

NOTES

Section 9
ELECTRICAL

The fuse and relay panel **(Figure 9-1, 1)** is located on the upper deck between the right- and left-hand operating positions.

⚠ WARNING Electrical Shock Hazard! Always turn the battery disconnect switch to the OFF position when servicing the electrical system.

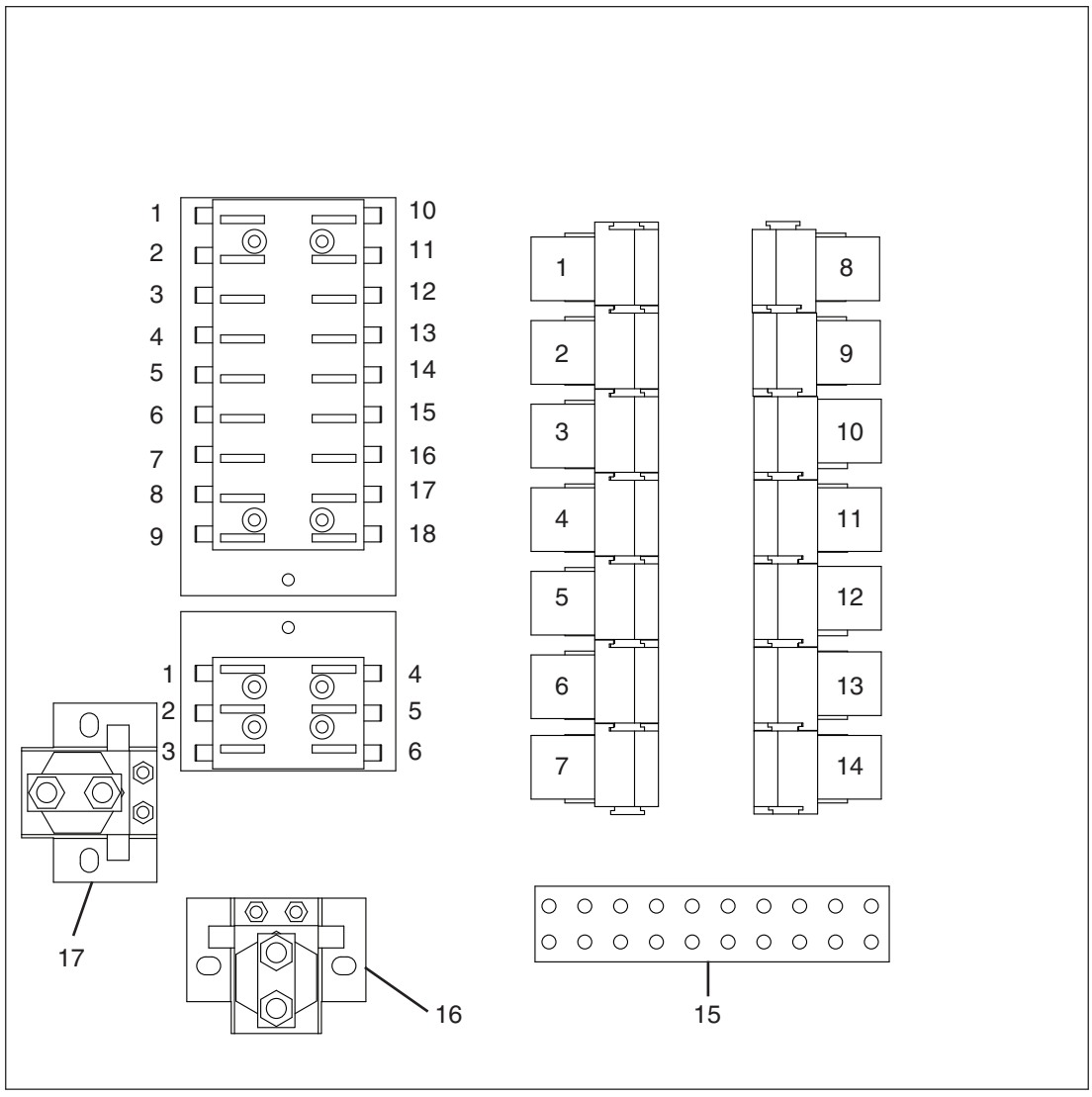


Fuse and Relay Panel

Figure 9-1

FUSE AND RELAY LOCATOR

Fuse and Relay Locations



Fuse Panel

Figure 9-2

18-Gang Fuse Panel

1 – Spray Down Pump - 20 Amp
2 – Beacon - 10 Amp
3 – Lights - 20 Amp
4 – Horn - 10 Amp
5 – System 5 Top Con - 20 Amp
6 – All Wheel Drive - 15 Amp
7 – Left Ext Verticle Lift - 20 Amp
8 – Right Ext Verticle Lift - 20 Amp
9 – Sonic Augers - 20 Amp
10 – Generator Control Box - 20 Amp
11 – Empty
12 – Empty
13 – Screed Output Controller - 20 Amp
14 – Propel Controller - 10 Amp
15 – Screed Controller - 20 Amp
16 – AWD Controller - 20 Amp
17 – Generator - 20 Amp
18 – Empty

6-Gang Fuse Panel

1 – Right Pedestal Display - 5 Amp
2 – Left Pedestal Display - 5 Amp
3 – Right Pedestal Key Pads - 5 Amp
4 – Left Pedestal Key Pads - 5 Amp
5 – Screed Key Pads - 5 Amp
6 – Proportional Controller - 10 Amp

Relay Panel

1 – Spray Down Pump
2 – Beacon Light
3 – Work Lights
4 – Horn
5 – Empty
6 – Empty
7 – Empty
8 – Generator
9 – Engine Enable
10 – All Wheel Drive
11 – Left Ext Verticle Lift Up
12 – Left Ext Verticle Lift Down
13 – Right Ext Verticle Lift Up
14 – Right Ext Verticle Lift Down
15 – Ground Block
16 – Power Relay 1
17 – Power Relay 2

NOTES

Section 10

ILLUSTRATED PARTS LIST

INTRODUCTION

This Illustrated Parts List (IPL) is intended for use in identifying and requisitioning replacement parts.

ILLUSTRATED PARTS LIST

Numerical Index

A numerical index is provided to supplement the detailed parts list. Part number arrangement begins at the extreme left-hand position and continues from left to right, one position at a time. The order of precedence is as follows: Letters A through Z; Numerals 0 through 9. The alpha “O” shall be considered as a numeric zero. Each part number provides a reference to its appearance in the IPL by figure and item number.

Drive Group Illustration

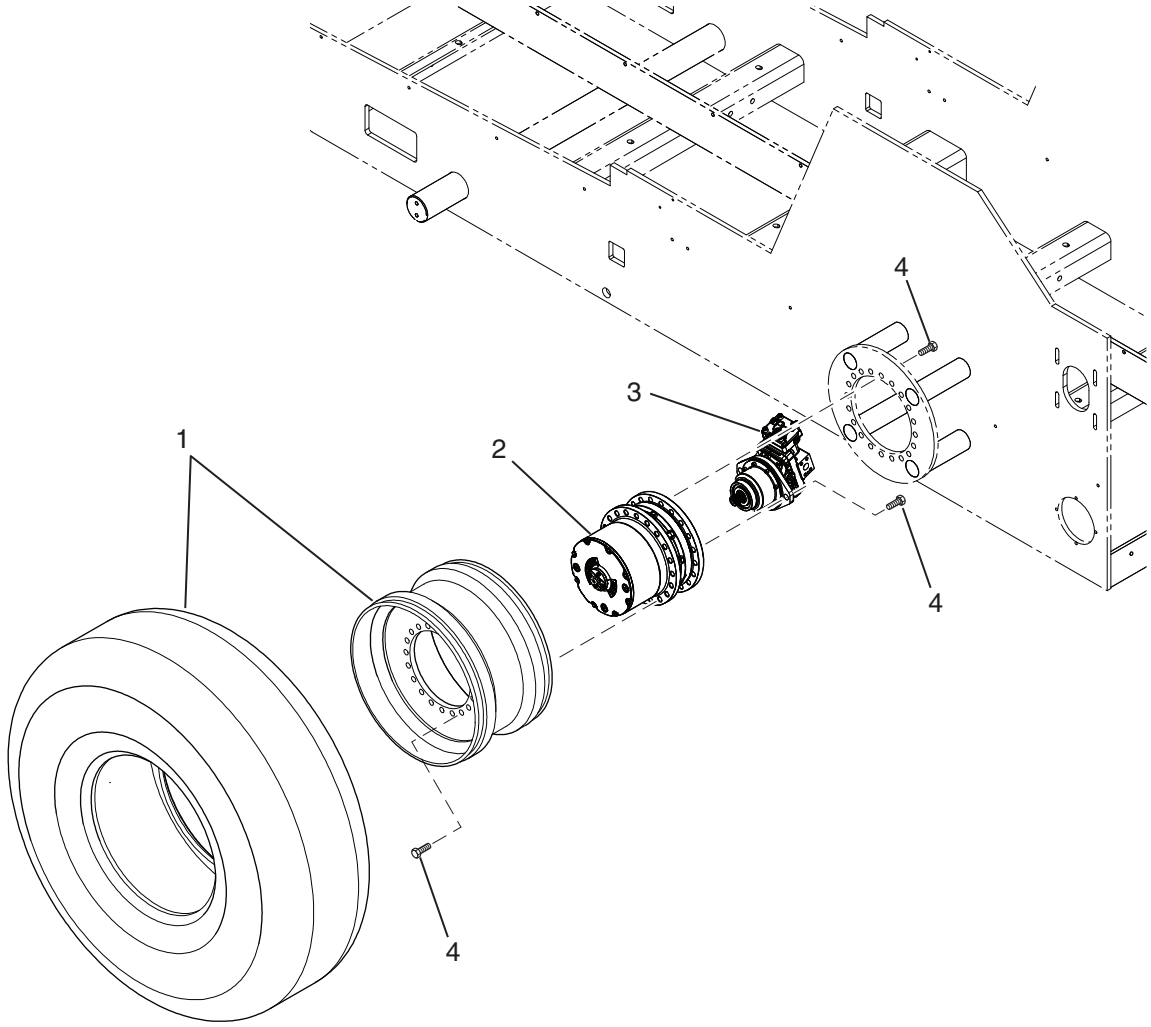


Figure 10-1

Drive Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989787	1	Group, Drive, 9000	
1	· 989003	2	Assy, Rim and Tire, Rear	
–	· 1001874	2	Plate, Pin Retainer, Torque Hub	Not Shown
2	· 989000	2	Torque Hub, w/Brake	
3	· 989183	2	Motor, Drive, 9000	
4	1002802	84	CSSH, M20-2.5 x 50mm	

Bogie Assembly Illustration

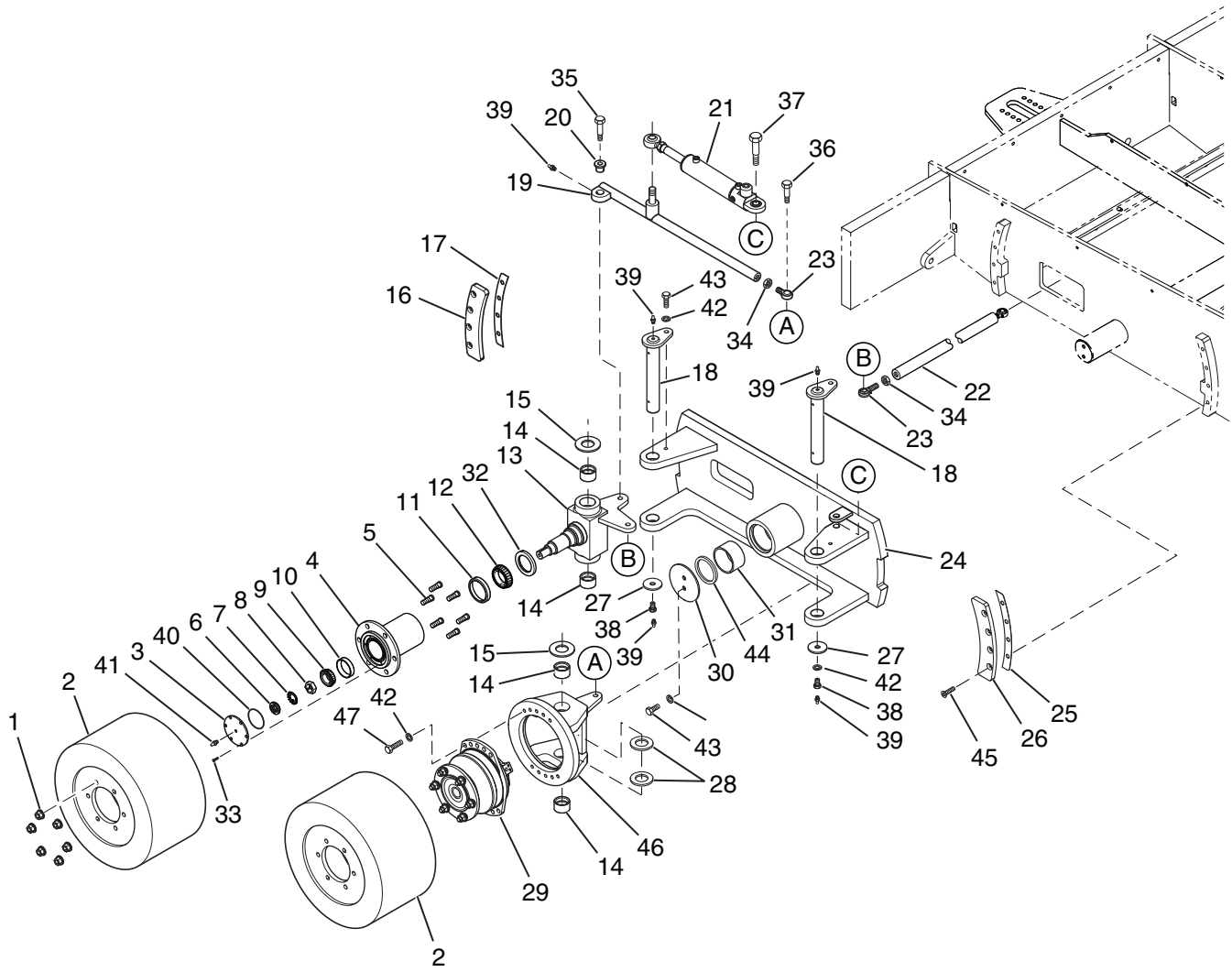


Figure 10-2

Bogie Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989788	1	Assembly, Bogie, 9000	
1	· 989924	24	Nut, Lug, 55mm	
2	· 989255	4	Assy, Rim & Wheel, Front	
3	· 989162	2	Cover, Hub	
4	· 989165	2	Hub, Wheel	
5	· 989926	12	Stud, Frt. Wheel	
6	· 1001683	4	Hex, Thin, 4 Slot	
7	· 620220	2	Key	
8	· 80969	2	Washer, Flat, 1.25 SAE	
9	· 610210	2	Bearing Cone	
10	· 610200	2	Bearing Cup	
11	· 210190A	2	Bearing Cup	
12	· 210180A	2	Bearing Cone	
13	· 989153	1	Assy, Spindle, Left, 9000	
–	· 989154	1	Assy, Spindle, Right, 9000	Not Shown
14	· 210040	8	Bushing, 2.5 OD x 2.0 ID x 1.5 LG	
15	· 989172	4	Washer, Thrust	
16	· 989145	2	Plate, Guide Stop Clamp, Front	
17	· 1000491	4	Shim, Bogie, Front	
18	· 989689	4	Assembly, King Pin	
–	· 989686	1	Weldment, Tie Rod, RH	Not Shown
19	· 989687	1	Weldment, Tie Rod, LH	
20	· 989140	2	Bushing, Steering Linkage	
21	· 989099	2	Cylinder, Steer, w/Feedback	
22	· 989680	1	Bar, Tie Rod	
23	· 989692	4	Ball Joint, 3/4" Male Shank	
24	· 989691	1	Weldment, Bogie, Left Side	
–	· 989690	1	Weldment, Bogie, Right Side	Not Shown
25	· 1000490	4	Shim, Bogie, Rear	
26	· 989146	2	Plate, Guide Stop Clamp, Rear	
27	· 982038	2	Washer, 0.750 x 3.00 x 0.250	
28	· 989169	2	Keeper, Bushing	

Bogie Assembly Illustration (Continued)

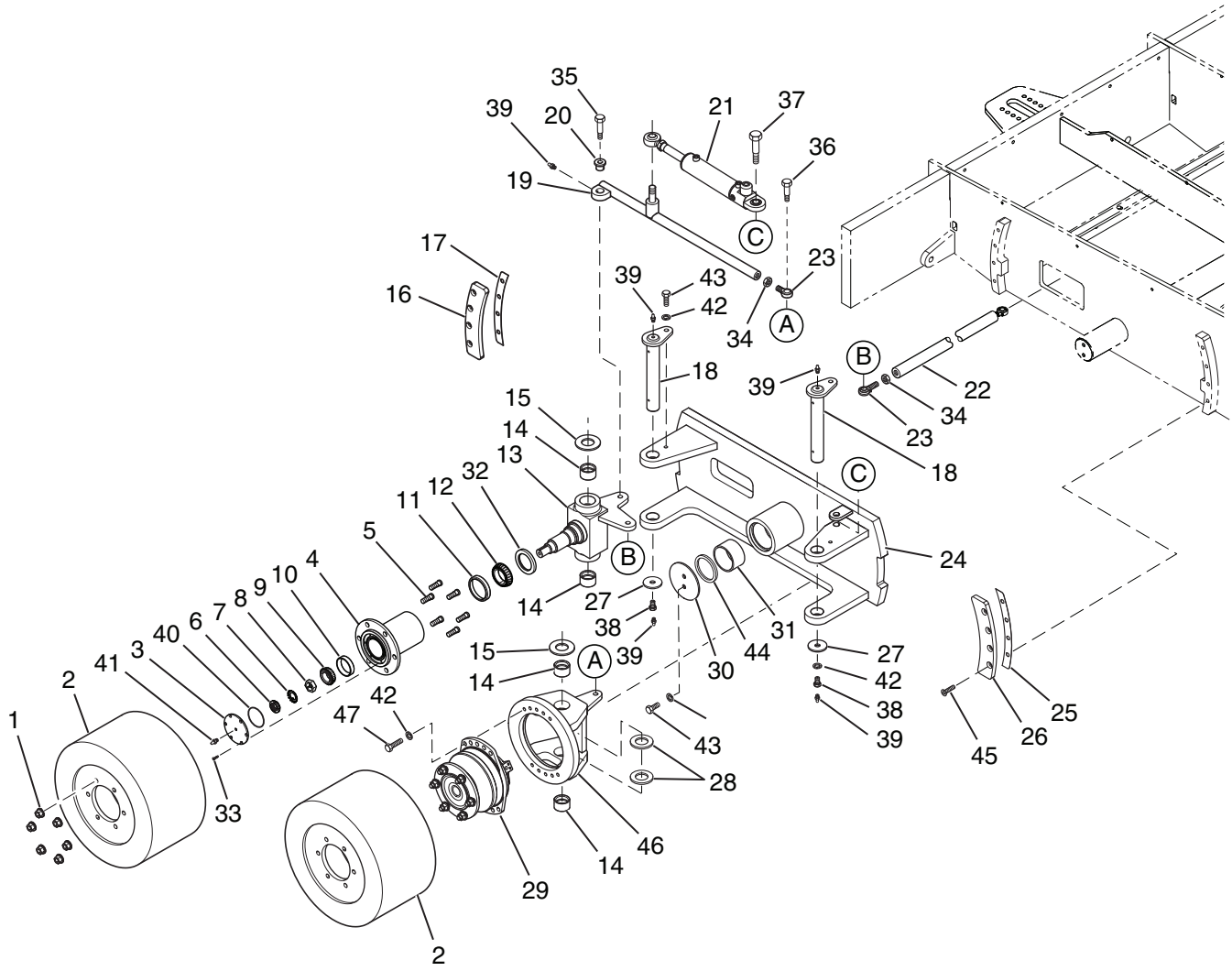


Figure 10-3

Bogie Assembly Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
29	· 989136	2	Motor, Hyd., Front Assist, 9000	
30	· 1001681	2	Cover, Shaft, Bogie	
31	· 989699	4	Bushing, Fiber, 4" ID X 2.50	
32	210240A	2	Seal	
33	985246	12	CSFHS, .250-20 x .625	
34	80096	4	Nut, Jam, .750-16	
35	1002803	2	Shoulder Bolt, .750 x 2.00	
36	989695	2	Shoulder Bolt, .750 x 1.50	
37	989696	2	Shoulder Bolt, 1.00 x 3.00	
38	989685	4	CSHH, .625-11 x 1.00	
39	140610	10	Fitting, Lube	
40	P77484	2	O-ring	
41	985094	2	Fitting, Lube	
42	118-7	24	Washer, Lock, .625	
43	102-606-1A	4	CSHH, .625-11 x 1.25	
44	989698	4	Seal	
45	80420	8	CSFHS, .500-13 x 1.50	
46	989175	2	Mount, Frt Wheel Drive	
47	102-608-1A	10	CSHH, .625-11 x 1.75	

Conveyor Illustration

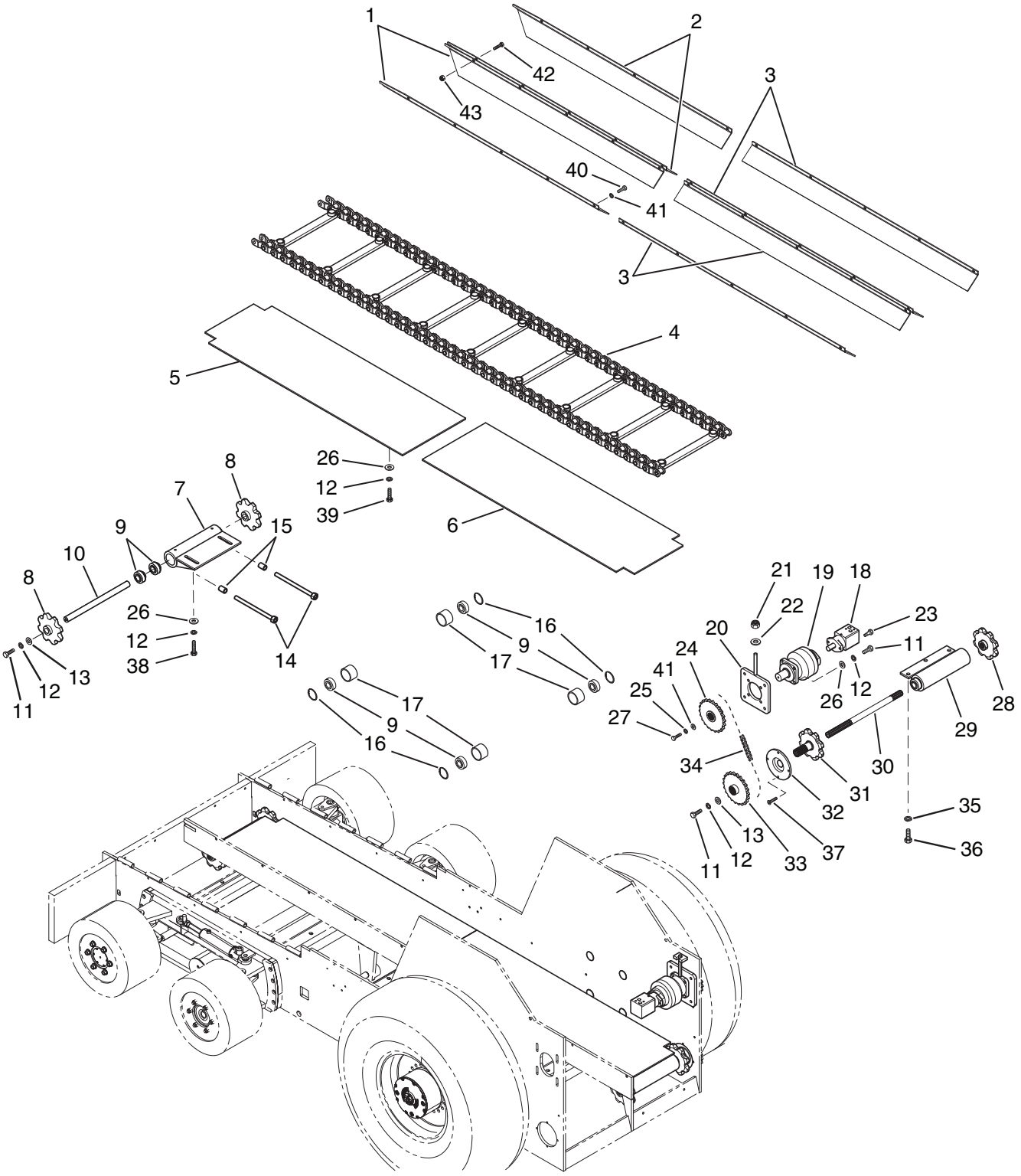


Figure 10-4

Conveyor Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989789		Group, Conveyor	
1	989070	2	Chain Guard, Front, LH, 9000	
2	989071	2	Chain Guard, Front, RH, 9000	
3	989072	4	Chain Guard, Rear, 9000	
4	989198	2	Chain, Conveyor Drag, w/Bars	
5	1002674	2	Plate, Coveyor, Bed, Front	
6	1002675	2	Plate, Coveyor, Bed, Rear	
7	1002801	1	Assy, Conveyor Front Idler Mount	
8	981145	4	Sprocket, Conveyor Front Idler	
9	85130	16	Bearing	
10	989022	2	Shaft, Conveyor Idler	
11	102-606-1A	8	CSHH, .625-11 x 1.25	
12	118-7	44	Washer, Lock, .625	
13	856046	8	Washer, Flat, .625 ID x 2.25 OD x .188 Thk	
14	989030	4	Screw, Conveyor Ajusting	
15	116-8-1	8	Nut, Hex, Jam, .750-10	
16	850040	8	Snap Ring	
17	850162	8	Roller, Conveyor Chain Idler (w/bearing)	
18	986600	2	Motor, Hyd, Conveyor Drive	
19	980200	2	Torque Hub, Conveyor Drive, 8816	
20	989060	2	Plate, Conveyor, Mount Slide, 9000	
21	123-8	2	Nut, Lock, .750-10	
22	120-8	2	Washer, Flat, USS, .750	
23	1002804	4	Shoulder Bolt, .500 x .750	
24	989039	4	Assy, Sprocket, Drive Motor	
25	118-5	2	Washer, Lock, .500	
26	120-7	40	Washer, Flat, USS, .625	
27	100-406-1A	2	CSHH, .500-20 x 1.25	
–	989025	1	Assy, Conveyor Drive, LH, 9000	(Shown in Phantom Assembly)
28	· 989033	1	Assy, Inside Drive Sprocket, 9000	
29	· 989035	1	Assy, Rear Axle Housing, 9000	
30	· 989026	1	Drive Shaft, Conveyor, 9000	

Conveyor Illustration (Continued)

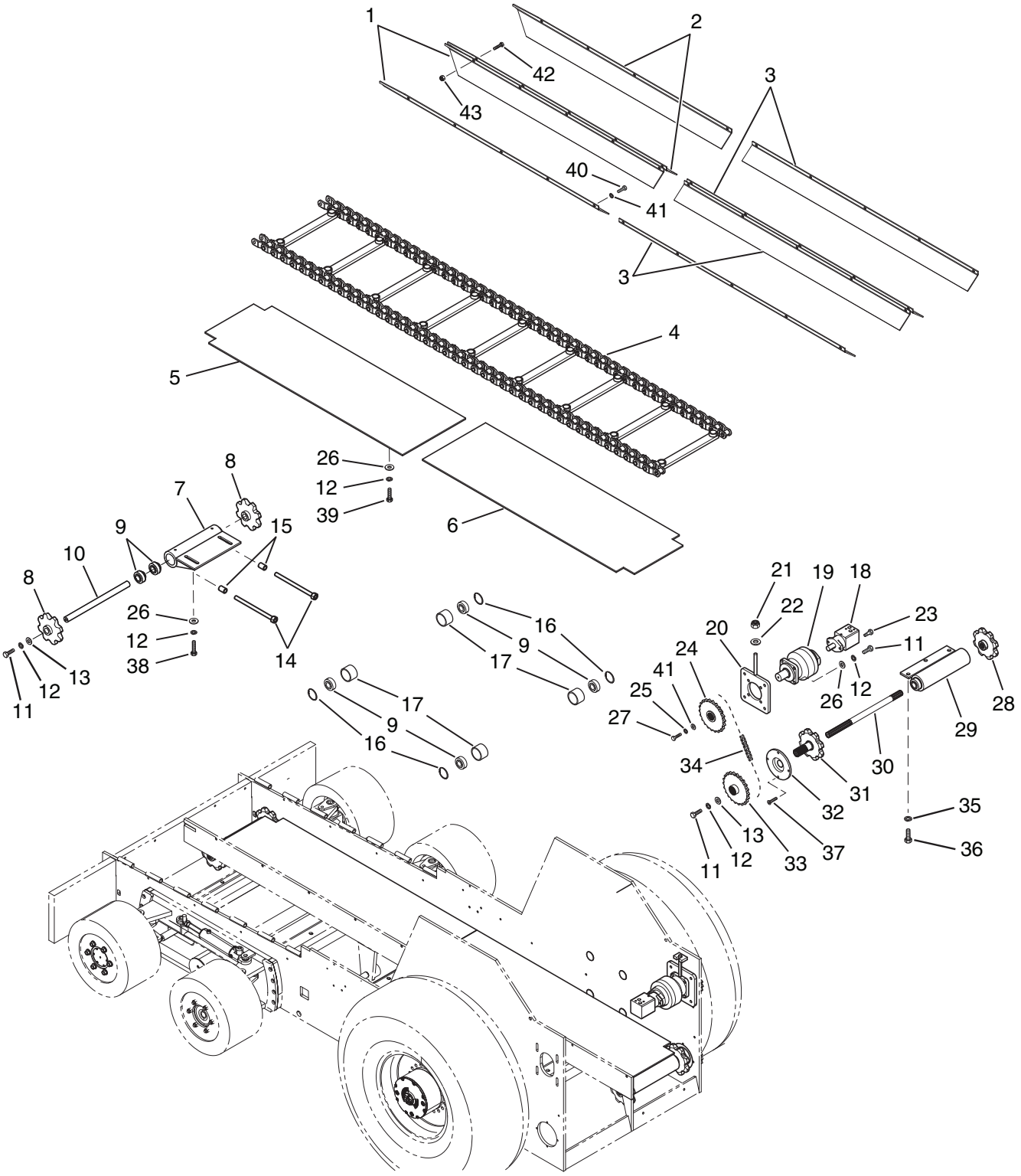


Figure 10-5

Conveyor Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
31	· 989032	1	Assy, Outer Drive Sprocket, 9000	
32	851483	2	Plate, Conveyor Mount, w/Brg, 9000	
33	989042	1	Assy, Conveyor Drive Sprocket	
34	1000142	2	Chain, Conveyor Drive	
35	118-8	3	Washer, Lock, .750	
36	100-706-1A	3	CSHH, .750-16 x 1.25	
37	80420	16	CSFHS, .500-13 x 1.50	
38	102-608-1A	8	CSHH, .625-11 x 1.75	
39	102-607-1A	24	CSHH, .625-11 x 1.50, GR5	
40	102-405-1A	20	CSHH, .500-13 x 1.00, GR5	
41	118-5	20	Washer, Lock, .500	
42	102-409-1A	10	CSHH, .500-13 x 2.00, GR5	
43	143-5	10	Nut, Lock, .500-13	

Miscellaneous Illustration

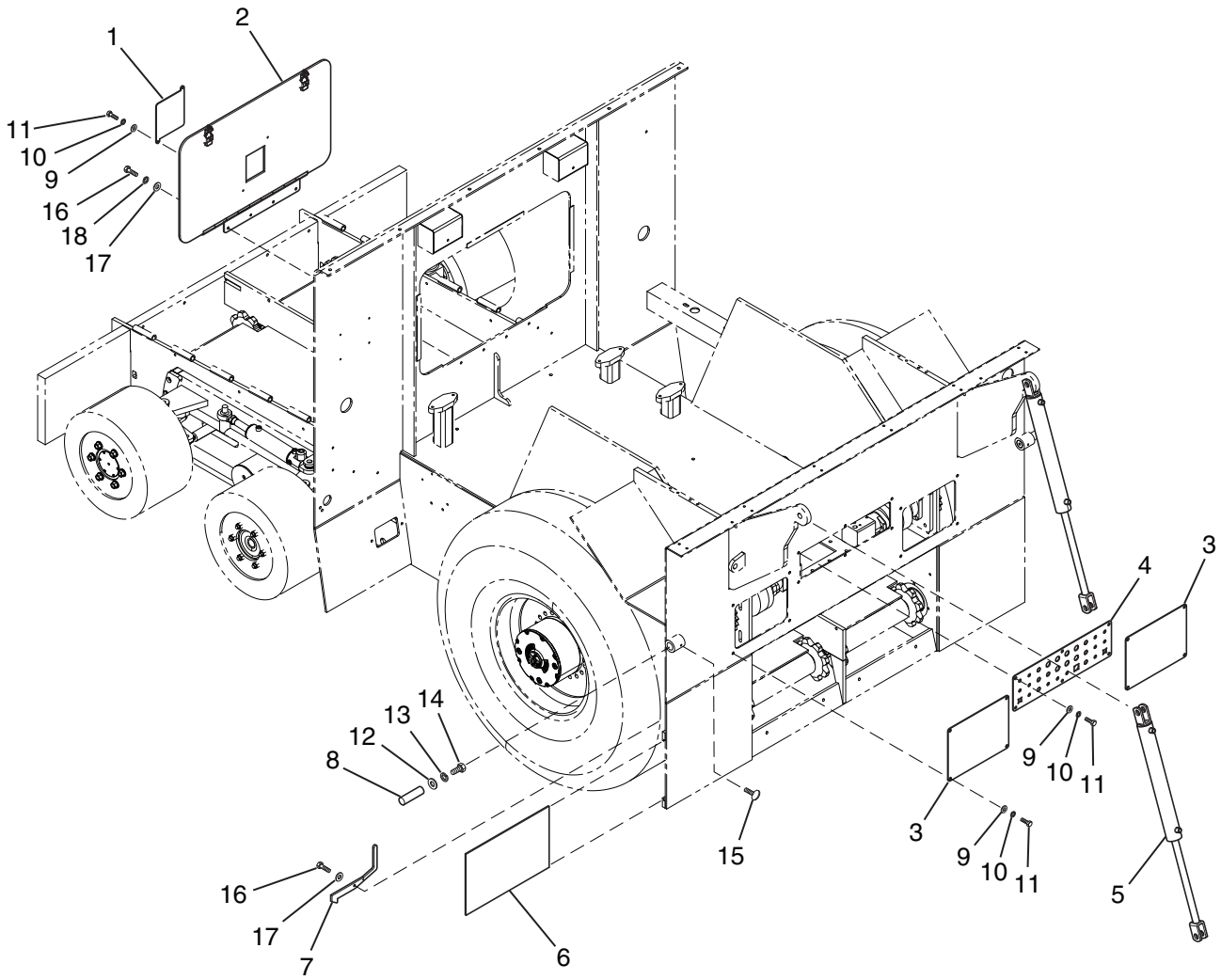


Figure 10-6

Miscellaneous Parts List

Item No.	Part Number	Qty.	Description	Remarks
			Group, Miscellaneous	
1	980284	1	Cover, Hyd, Access	
2	989055	1	Assy, Access Door, 9000	
3	989516	2	Plate, Access Door, Back	
4	989576	1	Plate, Rear Bulkhead	
5	1000670	2	Cylinder, Screed Lift	
6	1000814	1	Assy, Asphalt Deflector, LH	
–	1000815	1	Assy, Asphalt Deflector, RH	Not Shown
7	985549	2	Latch, Asphalt Deflector	
8	1000791	2	Shaft, 1.50" Screed Stop	
9	119-2	16	Washer, Flat, SAE, .312	
10	118-2	16	Washer, Lock, .312	
11	102-105-1A	16	CSHH, .312-18 x 1.00, GR5	
12	R49	2	Washer, Flat, USSHD, .500 x 2.00 x .188	
13	118-5	2	Washer, Lock, .500	
14	102-403-1A	2	CSHH, .500-13 x .750, GR5	
15	920070	2	Screw, Wing, .375-16 x 1.00	
16	102-206-1A	6	CSHH, .375-16 x 1.25, GR5	
17	119-3	6	Washer, Flat, SAE, .375	
18	118-3	4	Washer, Lock, .375	

Push Block Illustration

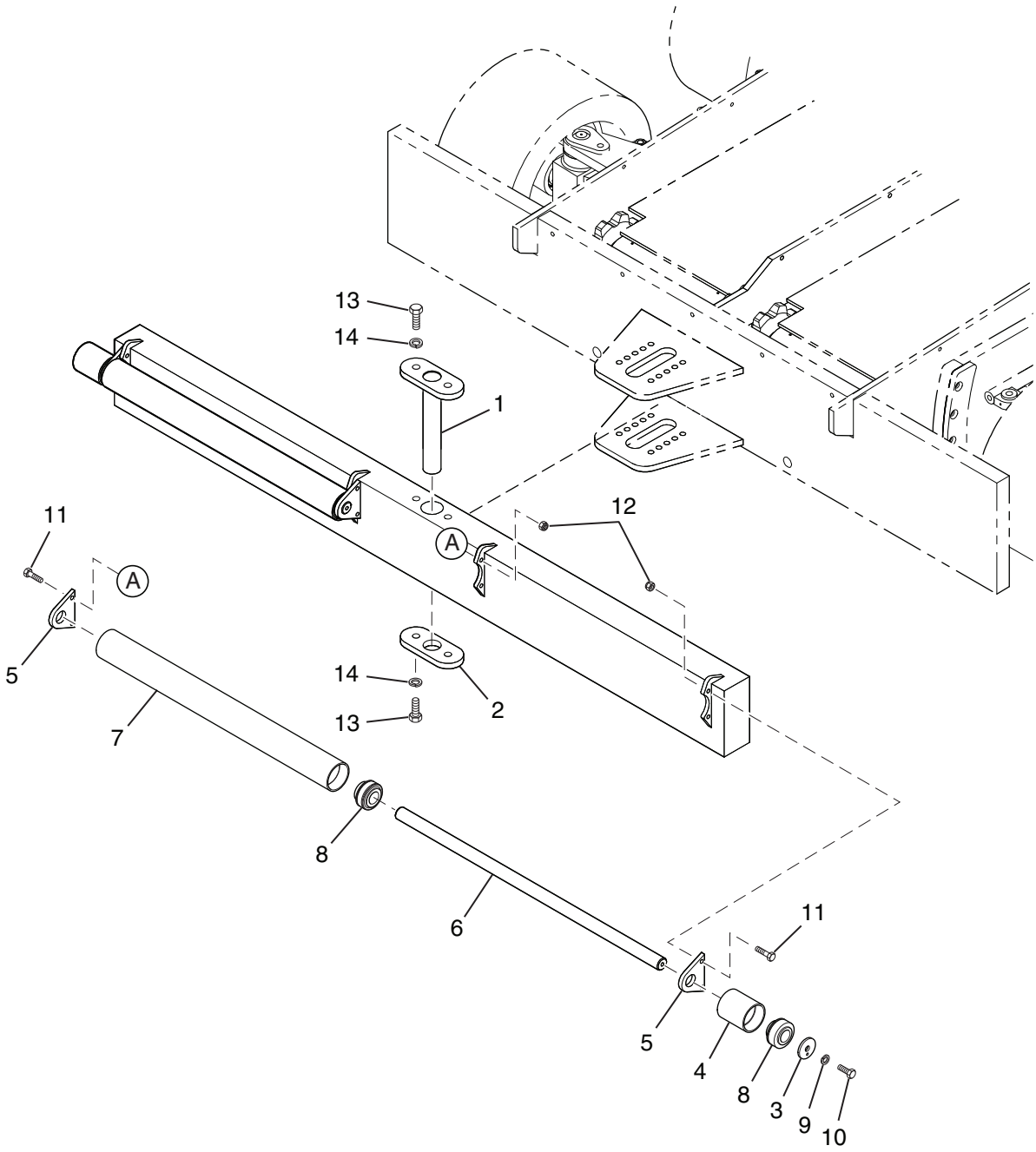


Figure 10-7

Push Block Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989613	1	Assy, Push Block, 9000	
1	1002737	1	Pin, Pivot, 9000	
2	989675	2	Hold Down, Push Block	
3	R49	2	Washer, Flat, USSHD, .500 x 2.00 x .188	
4	980035	2	Assy, Roller Extension, Pushbar	
5	980787	4	Arm, Push Block	
6	989674	2	Shaft, Roller, Push Block	
7	851116-1	2	Assy, Roller, Conveyor	
8	850130	8	Bearing, Insert, 1.50	
9	118-5	4	Washer, Lock, .500	
10	102-405-1A	4	CSHH, .500-13 x 1.00, GR5	
11	102-407-1A	4	CSHH, .500-13 x 1.50, GR5	
12	143-5	4	Nut, Lock, .500-13	
13	102-707-1A	4	CSHH, .750-10 x 1.50	
14	118-8	4	Washer, Lock, .750	

Tank Group Illustration

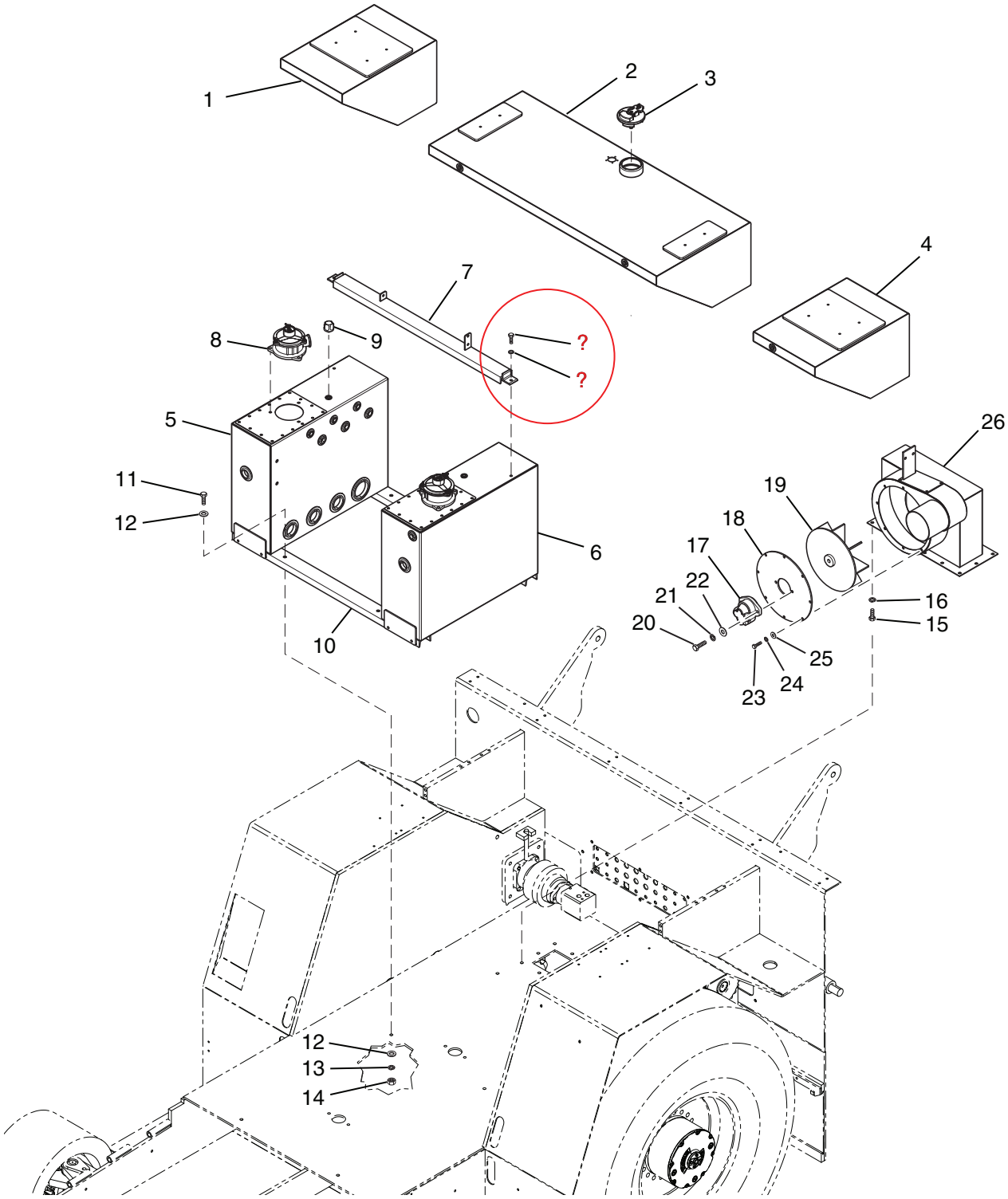


Figure 10-8

Tank Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989792		Group, Tanks, 9000	
1	989548	1	Assy, Tank, Citrus, 9000	
2	989540	1	Assy, Tank, Fuel, Main (Diesel), 9000	
3	982033	1	Cap, Fuel Tank (Diesel)	
4	989541	1	Assy, Tank, Fuel, Auxiliary, 9000	
5	989073	1	Assy, Tank, Hyd, RH, 9000	
6	989074	1	Assy, Tank, Hyd, LH, 9000	
7	1001645	1	Assy, Mount, Hyd Manifold Valves	
8	982940	2	Filler Cap, Hyd Oil Tank	
9	620050	2	Breather Cap	
10	989531	2	Channel, Hyd Tank Mount	
11	102-412-1A	4	CSHH, .500-13 x 2.75	
12	119-5	8	Washer, Flat, SAE, .500	
13	118-5	4	Washer, Lock, .500	
14	116-5	4	Nut, Hex, .500-13	
15	102-205-1A	8	CSHH, .375-16 x 1.00, GR5	
16	118-3	8	Washer, Lock, .375	
17	980590	1	Motor, Hyd, Exh Fan	
18	980705	1	Plate, Fan Cover	
19	980760	1	Fan Blade	
20	102-206-1A	2	CSHH, .375-16 x 1.25, GR5	
21	118-3	2	Washer, Lock, .375	
22	119-3	2	Washer, Flat, SAE, .375	
23	102-3-1A	12	CSHH, .250-20 x .750, GR5	
24	118-1	12	Washer, Lock, .250	
25	119-1	12	Washer, Flat, SAE, .250	
26	989082	1	Assy, Blower, Exhaust	

Engine Group Illustration

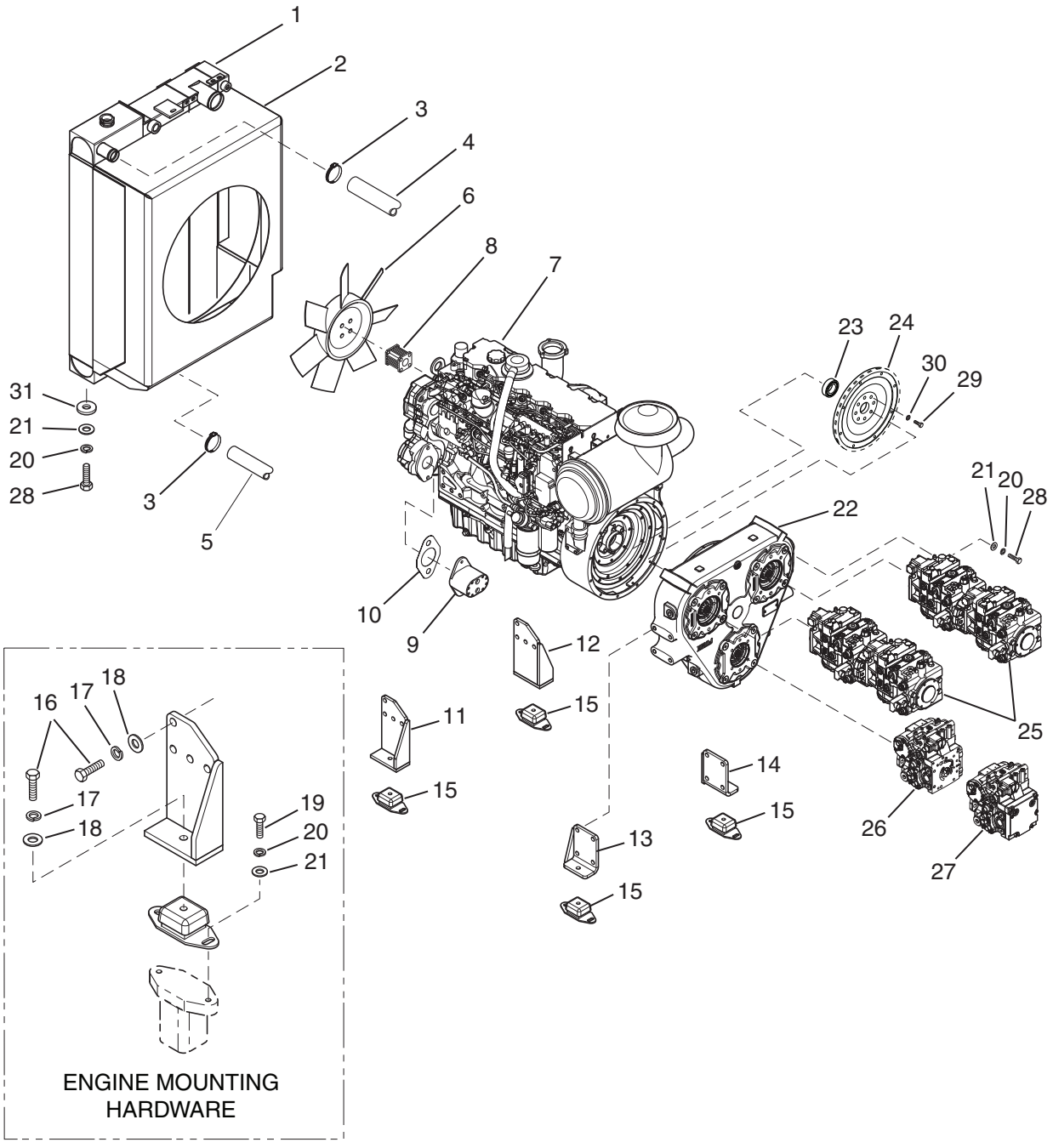


Figure 10-9

Engine Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989785	1	Group, Engine, 9000	
1	989086	1	Radiator Cooling Package, 9000	Includes Shroud
2	· 989086-02	1	Shroud, Radiator	
3	33170	4	Clamp, Hose, #32	
4	1001933	1	Hose, Radiator, Upper	
5	1001932	1	Hose, Radiator, Lower	
6	989088	1	Fan, 26", CAT Tier 3, 9000	
7	989953	1	Engine, CAT, 173HP, Tier 3, 9000	
8	1002805	1	Spacer, Fan	
9	1000694	1	Pump, Aux, Blower/Vibrator	
10	700480	1	Gasket, SAE, B, 2 Bolt	
11	1002751	1	Mount, Engine, LH, Front, CAT, Tier 3	
12	1002750	1	Mount, Engine, RH, Front, CAT, Tier 3	
13	1002748	1	Mount, Engine, LH, Rear, CAT, Tier 3	
14	1002749	1	Mount, Engine, RH, Rear, CAT, Tier 3	
15	320140-1	1	Mounting Pad, Hatz Diesel Engine	
16	81031	10	CSHH, M16-2.0 x 40	
17	118-7	10	Washer, Lock, .625	
18	119-7	10	Washer, Flat, SAE, .625	
19	102-406-1A	8	CSHH, .500-13 x 1.25, GR5	
20	118-5	22	Washer, Lock, .500	
21	119-5	22	Washer, Flat, SAE, .500	
22	988968	1	Pump Drive, Triple	
23	989953-11	1	Bearing, Pilot, CAT, Tier 3	
24	989953-12	1	Drive Plate, CAT, Tier 3	
25	989185	1	Pump, Tandem, Propel	
26	989184-02	1	Pump, Aux, Generator	
27	989184-01	1	Pump, Aux, Valves	
28	312160	14	CSHH, .500-13 x 1.50, GR8	
29	81068	8	CSHH, .375-24 x 1.00, GR8	
30	118-3	8	Washer, Lock, .375	
31	983040	2	Washer, Rubber, Rad. Mount	

Engine Group Illustration (Continued)

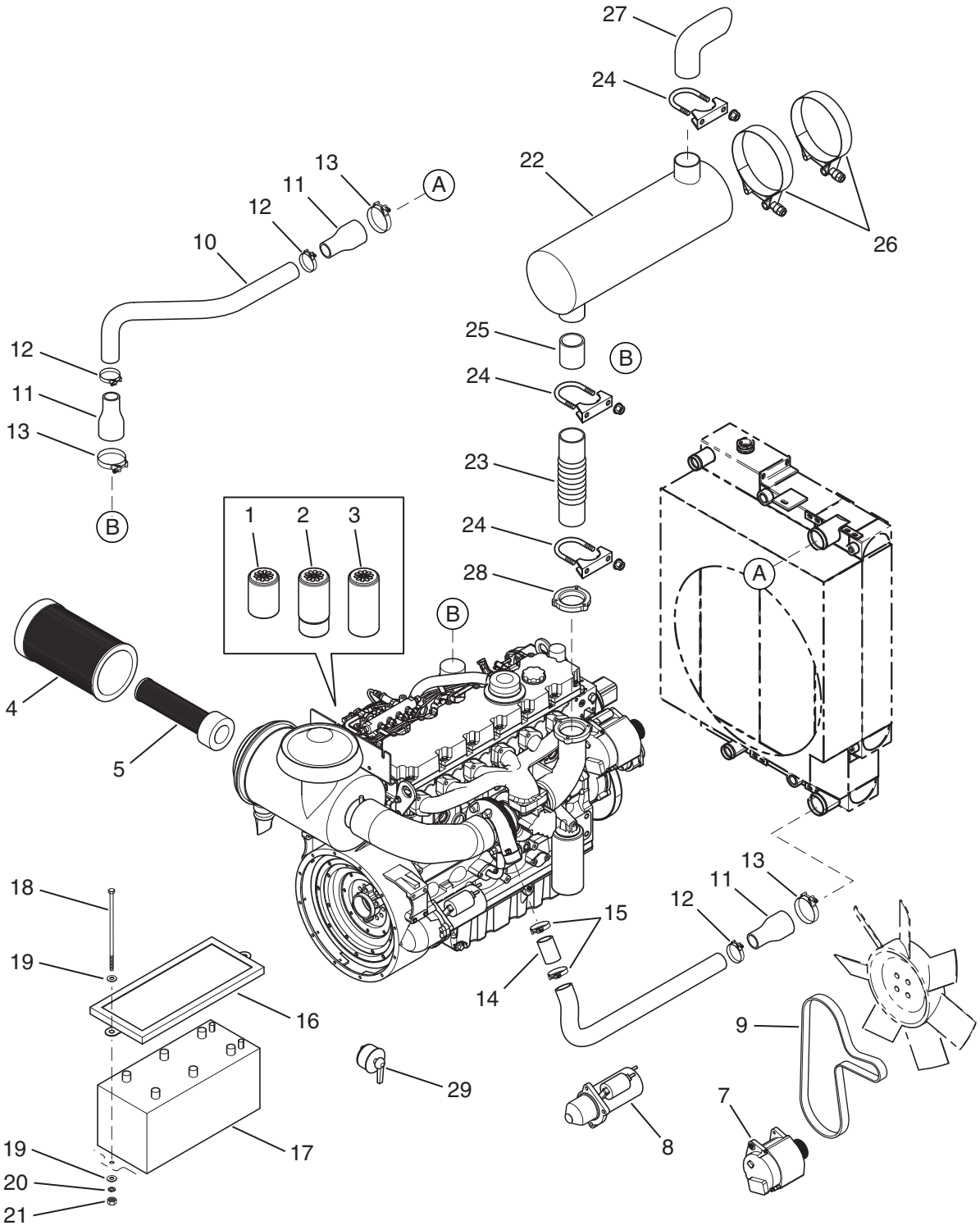


Figure 10-10

Engine Group Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
1	988676-03	1	Filter Element, Fuel, Secondary	
2	988676-04	1	Filter Element, Fuel, Primary	
3	988676-02	1	Filter Element, Engine Oil	
4	989953-05	1	Filter Element, Air, Primary	
5	989953-06	1	Filter Element, Air, Safety	
6	989953-07	1	Air Cleaner Assy	
7	989953-01	1	Alternator, CAT 173HP	
8	989953-08	1	Starter Motor	
9	988536-05	1	Fan Belt	
10	989953-10	1	Pipe, Intercooler	
11	982780	3	Tube, Reducer, Charge Air, 2.50 x 3.00	
12	38268	3	Clamp, T-bolt, 2.25 Nominal	
13	36600	3	Clamp, T-bolt, 3.00 Nominal	
14	987280	1	Tube, Charge Air, 2.00 ID x 3.00 Long, Str.	
15	38376	2	Clamp, T-bolt, 2.00 Nominal	
16	1000180	1	Hold Down, Battery	
17	1001847	1	Battery, 12V, 1000 CCA	
18	80393	2	CSHH, .375-16 x 9.50	
19	119-3	4	Washer, Flat, SAE, .375	
20	118-3	2	Washer, Lock, .375	
21	116-3	2	Nut, Hex, .375-16	
22	750043	1	Muffler	
23	160240-12	1	Pipe, Exh, Flexible, 3.00 x 12.00	
24	161250	3	Clamp, Muffler, 3.00	
25	1002806	1	Pipe, 3.00 OD x 3.00	
26	983544	2	Clamp, Air Cleaner/Muffler	
27	160010	1	Pipe, Exh Turnout, 3.00	
28	1002800	1	Flange, Adapter, Exhst, 3 Bolt	
29	SW29	1	Switch, Battery Disconnect	

Hopper Group Illustration

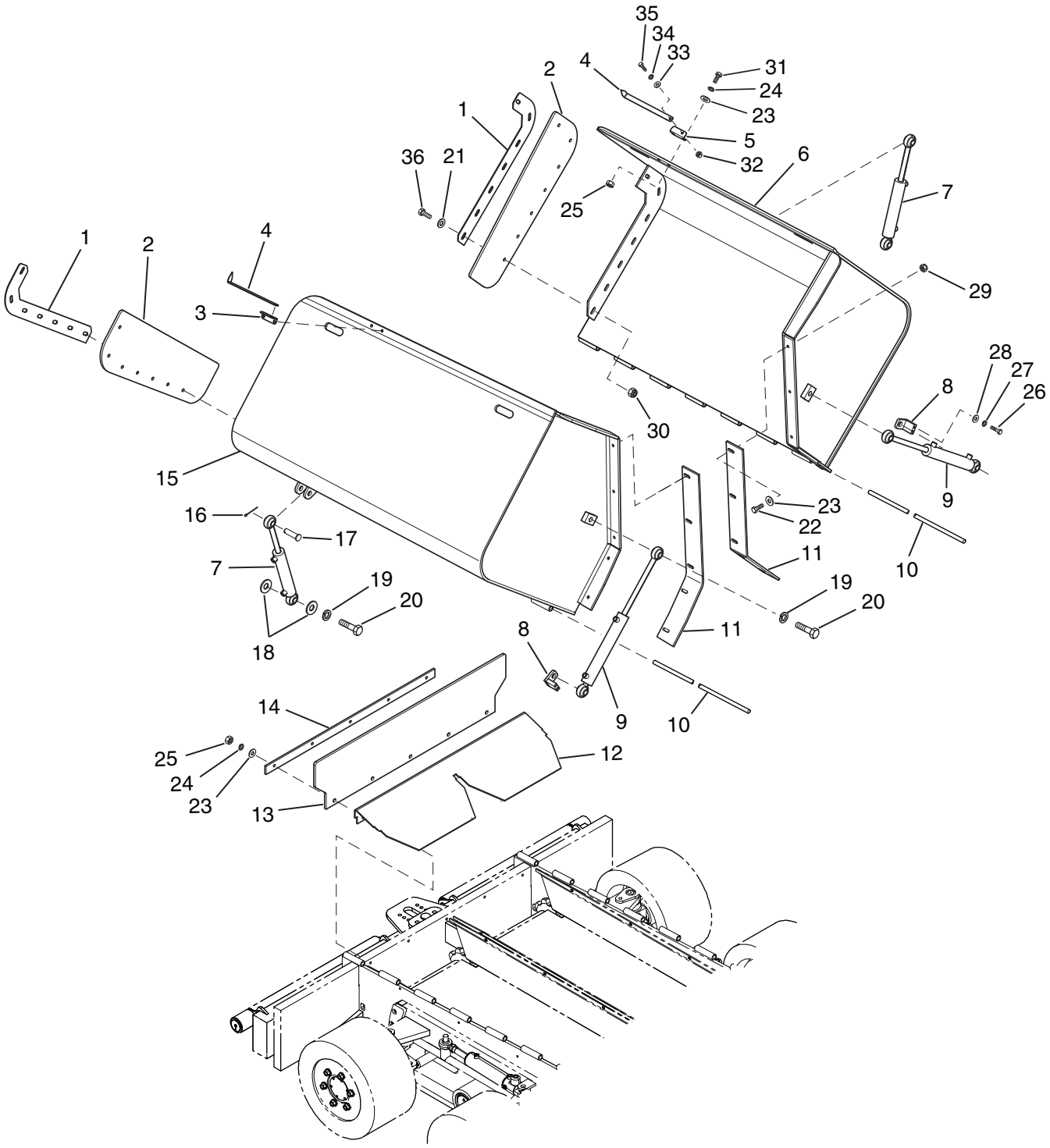


Figure 10-11

Hopper Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989791		Group, Hopper, 9000	
1	980332	2	Plate, Side Wing Rubber Shield	
2	989577	2	Rubber Hopper Wing	
–	1000806	1	Assy, Guide, Hopper Wing, LH	(Shown in Phantom Assembly)
3	· 1000805	1	Bracket, Guide, LH	
4	· 1000803	1	Bar, Guide	
–	1000801	1	Assy, Guide, Hopper Wing, RH	(Shown in Phantom Assembly)
5	· 1000804	1	Bracket, Guide, RH	
4	· 1000803	1	Bar, Guide	
6	1002161	1	W/M, Hopper w/Hinge Pipe, RH	
7	1001126	2	Cylinder, Hyd, 2.00 x 7.25 x 1.00 Rod	
8	980157	2	Assy, Side Wing Cylinder Bracket	
9	851436	2	Cylinder, Hyd, 2.00 x 12.00 x 1.00 Rod	
10	989067	2	Rod, Hopper Wing	
11	1002191	2	Wiper, Rubber Hopper	
12	989580	1	Guard, Chain, Front	
13	989578	1	Rubber, Hopper, Front	
14	989579	1	Bar, Rubber Mount, Front	
15	1002162	1	W/M, Hopper w/Hinge Pipe, LH	
16	81019	2	Pin, Cotter	
17	240030	2	Pin, Clevis	
18	119-10	10	Washer, Flat, SAE, 1.00	
19	118-10	10	Washer, Lock, 1.00	
20	100-911-1A	4	CSHH, 1.00-14 x 2.50	
21	119-7	14	Washer, Flat, SAE, .625	
22	102-406-1A	10	CSHH, .500-13 x 1.25, GR5	
23	119-5	10	Washer, Flat, SAE, .500	
24	118-5	7	Washer, Lock, .500	
25	116-5	5	Nut, Hex, .500-13	
26	102-307-1A	4	CSHH, .437-14 x 1.50, GR5	
27	118-4	4	Washer, Lock, .437	
28	119-4	4	Washer, Flat, SAE, .437	
29	143-5	10	Nut, Lock, .500-13	
30	143-7	14	Nut, Lock, .625-11	
31	102-405-1A	2	CSHH, .500-13 x 1.00, GR5	
32	116-3	2	Nut, Hex, .375-16	
33	119-3	2	Washer, Flat, SAE, .375	
34	118-3	2	Washer, Lock, .375	
35	102-203-1A	2	CSHH, .375-16 x .750, GR5	
36	102-607-1A	14	CSHH, .625-11 x 1.50, GR5	

Panel and Covers Group Illustration

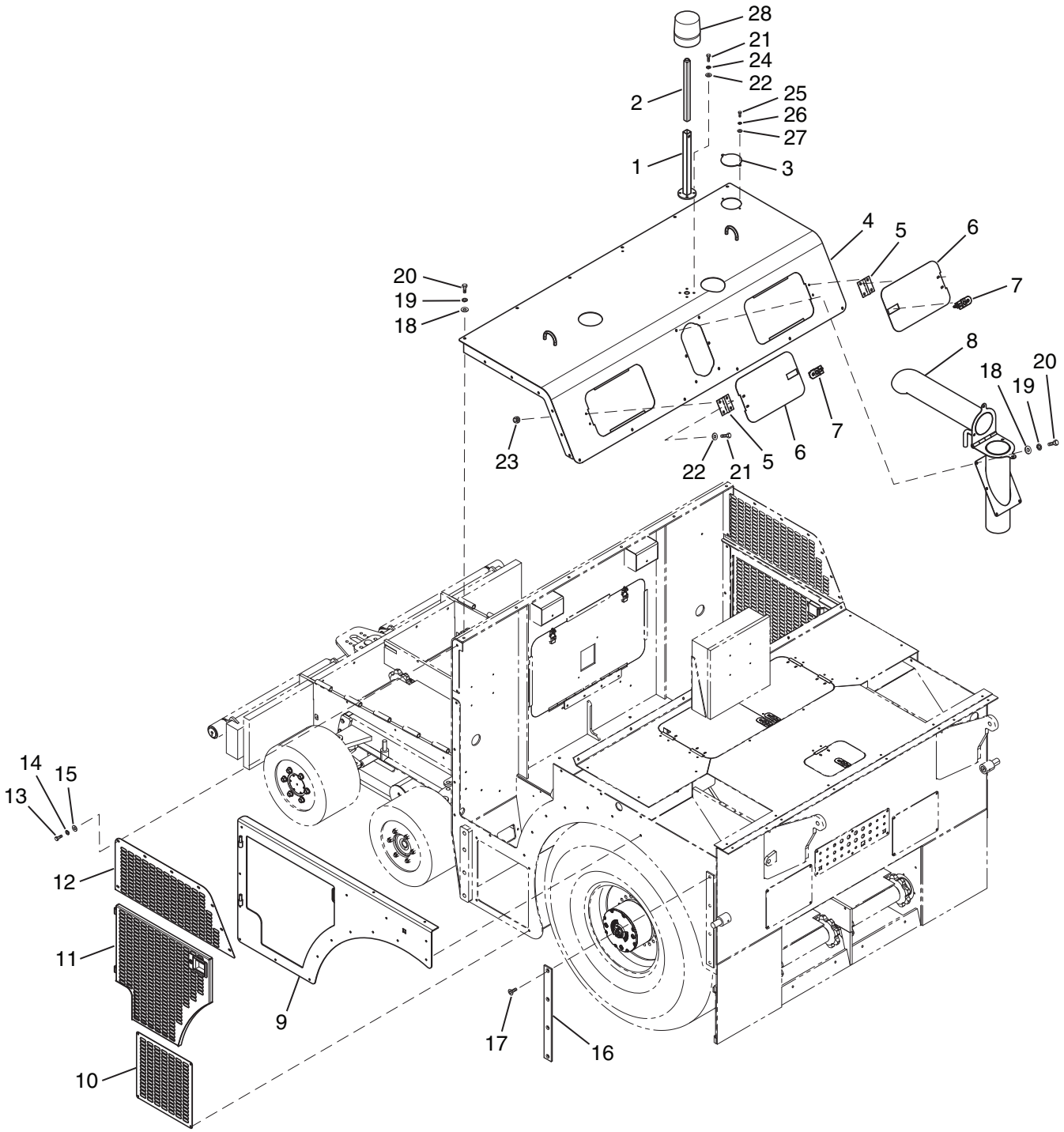


Figure 10-12

Panel and Covers Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989793		Group, Panel & Covers, 9000	
1	980376	1	Assy, Beacon Light Mount	
2	853857	1	Tube, Sq., 1.25 x 0.105 x 18.00	
3	980285	1	Citrus Cover	
4	989527	1	Hood, 9000	
5	980316	7	Hinge	
6	989583	2	Access Door, Hood	
7	980460	8	Lever Latch	
8	1000936	1	W/M, Fume Exhaust	
9	989521	1	Access Door Mount, Paver Side, LH	
–	989522	1	Access Door Mount, Paver Side, RH	Not Shown
10	989538	2	PL., Bottom Grate, Access Panel	
11	989523	1	Assy, Access Door, LH	
–	989524	1	Assy, Access Door, RH	Not Shown
12	989539	2	Hood Side Grating Plate, 9000	
13	102-105-1A	44	CSHH, .312-18 x 1.00, GR5	
14	118-2	44	Washer, Lock, .312	
15	119-2	44	Washer, Flat, SAE, .312	
16	1002315	2	Nylon Guide	
17	1002807	8	CSFHS, .500-20 x .500	
18	119-5	18	Washer, Flat, SAE, .500	
19	118-5	18	Washer, Lock, .500	
20	102-405-1A	18	CSHH, .500-13 x 1.00, GR5	
21	102-205-1A	12	CSHH, .375-16 x 1.00, GR5	
22	119-3	12	Washer, Flat, SAE, .375	
23	143-3	8	Nut, Lock, .375-16	
24	118-3	4	Washer, Lock, .375	
25	102-5-1A	2	CSHH, .250-20 x 1.00, GR5	
26	118-1	2	Washer, Lock, .250	
27	119-1	2	Washer, Flat, SAE, .250	
28	211748-02	1	Strobe, Light, Amber	

Operator Platform Illustration

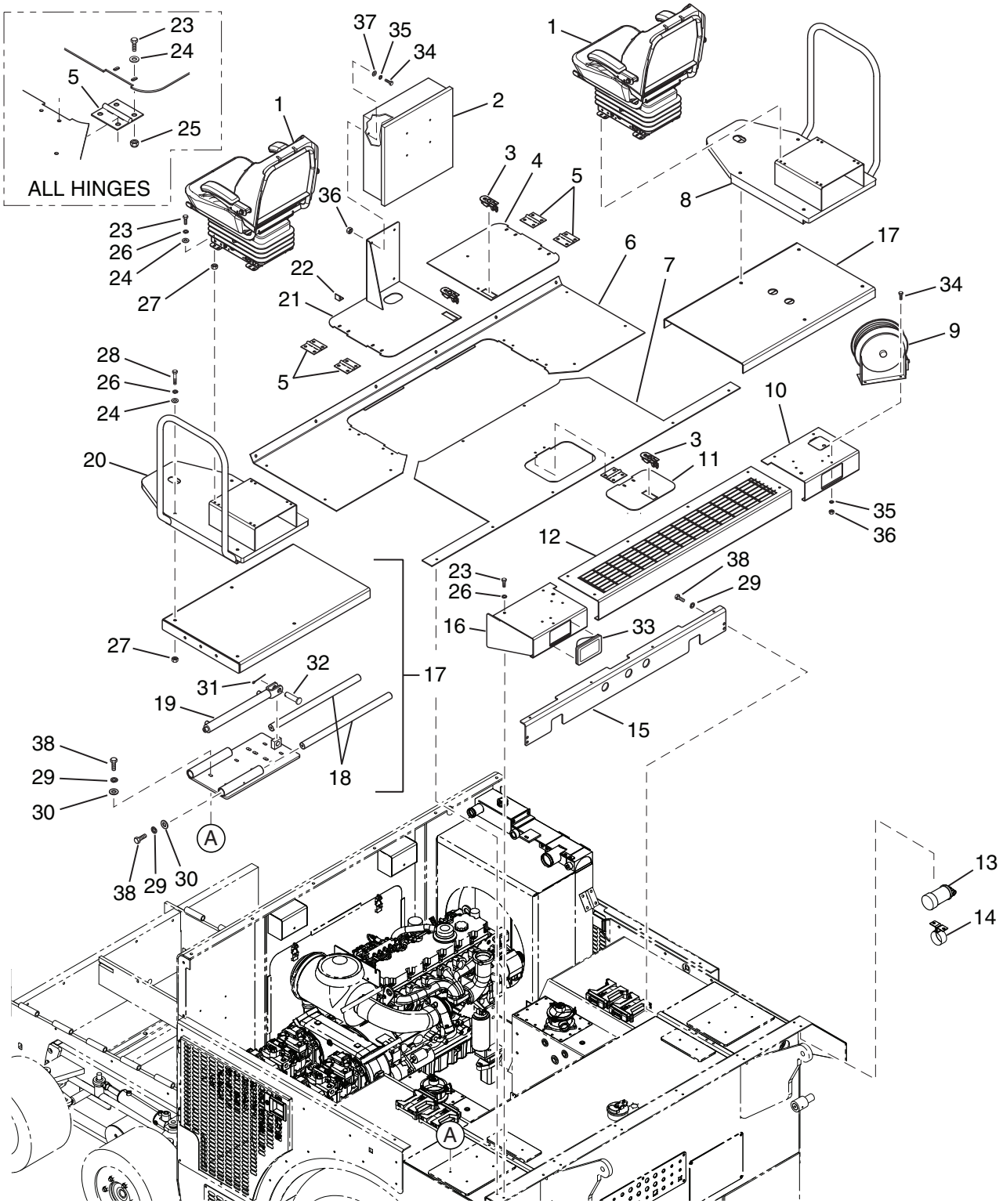


Figure 10-13

Operator Platform Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989614	1	Group, Operator Platform	
1	989575	2	Seat, Trimline, w/Suspension	
2	1000985	1	Assy, Electrical Enclosure	
3	980460	2	Lever Latch	
4	989529	1	Access Door Top Walkboard, RH	
5	989316	5	Hinge	
6	1001487	1	Plate, Top Walkboard, Front	
7	989528	1	Plate, Top Walkboard, Back	
8	1002798	1	Assy, Seat Mount, RH	
9	920200	2	Reel, w/Hose, Spraydown	
–	901210A	A/R	Nozzle, Spraydown Handle	Not Shown
–	920224	2	Hose, To Spraydown Handle	Not Shown
–	920220A	2	Handle & Nozzle, Spraydown	Not Shown
–	920220	2	Handle & Nozzle, Spraydown	Not Shown
10	989564	1	Upper Back Walkboard, RH	
11	989592	1	Door, Fuel Access, 9000	
12	989566	1	Plate, Rear Top Walkboard	
13	984381	1	Assy, Spraydown Pump	
14	480260	1	Bracket, Water / Fuel Pump Mount	
15	989546	1	Angle, Top Walkboard Brace	
16	989565	1	Upper Back Walkboard, LH	
17	989551	1	Assy, Seat Slide Base, LH	
18	· 989556	2	Rod, Seat Slide, 9000	
19	· 989567	1	Cylinder, Seat Slide, 9000	
–	989552	1	Assy, Seat Slide Base, RH	Not Shown
–	· 989556	2	Rod, Seat Slide, 9000	Not Shown
–	· 989567	1	Cylinder, Seat Slide, 9000	Not Shown
20	1002799	1	Assy, Seat Mount, LH	
21	989593	3	Access Door Top Walkboard, LH	
22	854471	1	Angle, 1.25 x 1.25 x 0.250 x 1.25, Hole	
23	102-205-1A	50	CSHH, .375-16 x 1.00, GR5	
24	119-3	8	Washer, Flat, SAE, .375	
25	143-3	20	Nut, Lock, .375-16	
26	118-3	50	Washer, Lock, .375	
27	116-3	8	Nut, Hex, .375-16	

Operator Platform Illustration (Continued)

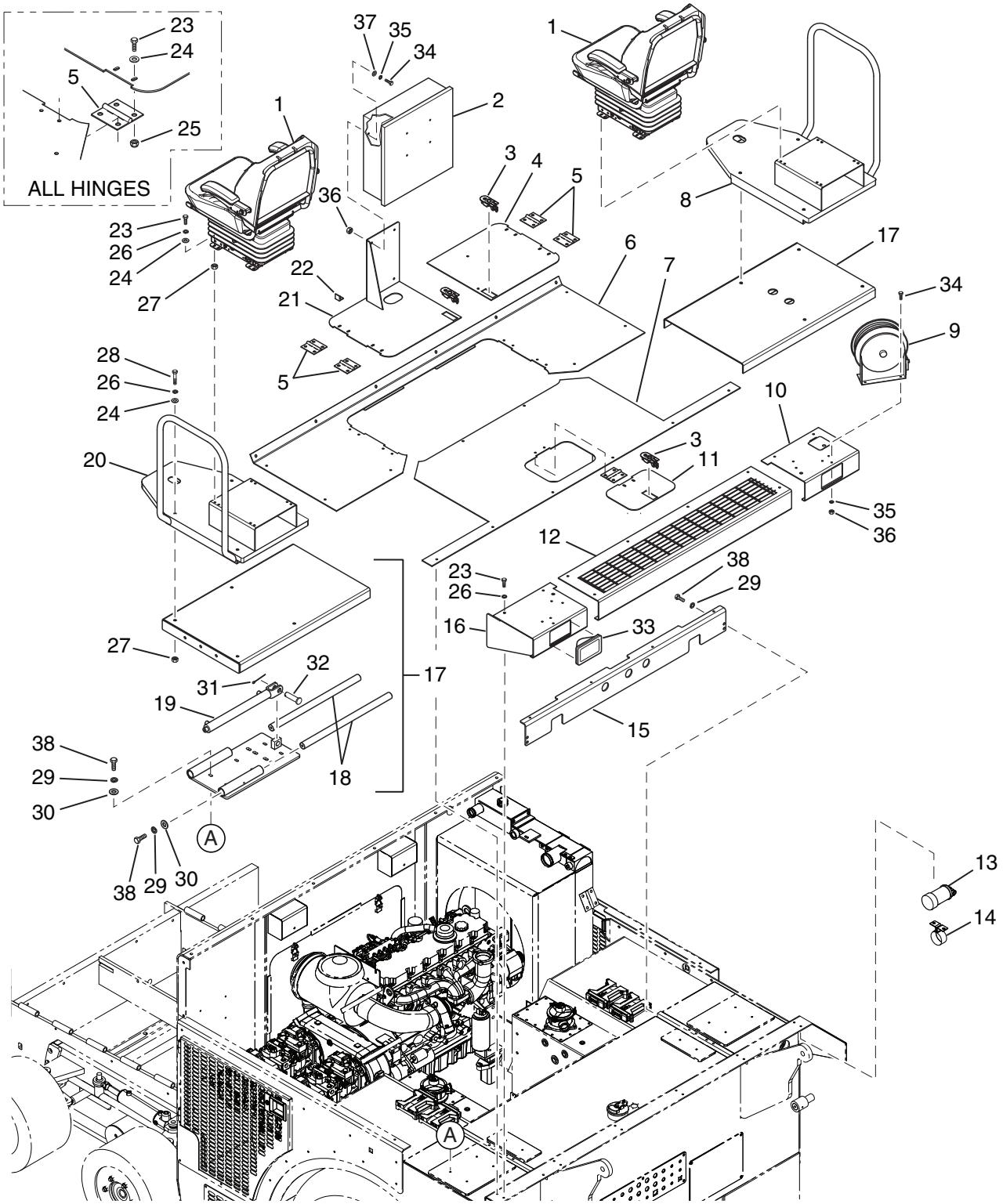


Figure 10-14

Operator Platform Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
28	102-209-1A	8	CSHH, .375-16 x 2.00, GR5	
29	118-5	28	Washer, Lock, .500	
30	119-5	24	Washer, Flat, SAE, .500	
31	81019	2	Pin, Cotter	
32	240030	2	Pin, Clevis	
33	160040A	4	Light, Halogen, Trap, 55 Watt	
34	102-105-1A	12	CSHH, .312-18 x 1.00, GR5	
35	118-2	12	Washer, Lock, .312	
36	116-2	12	Nut, Hex, .312-18	
37	119-2	4	Washer, Flat, SAE, .312	
38	102-406-1A	28	CSHH, .500-13 x 1.25, GR5	

Controls Group Illustration

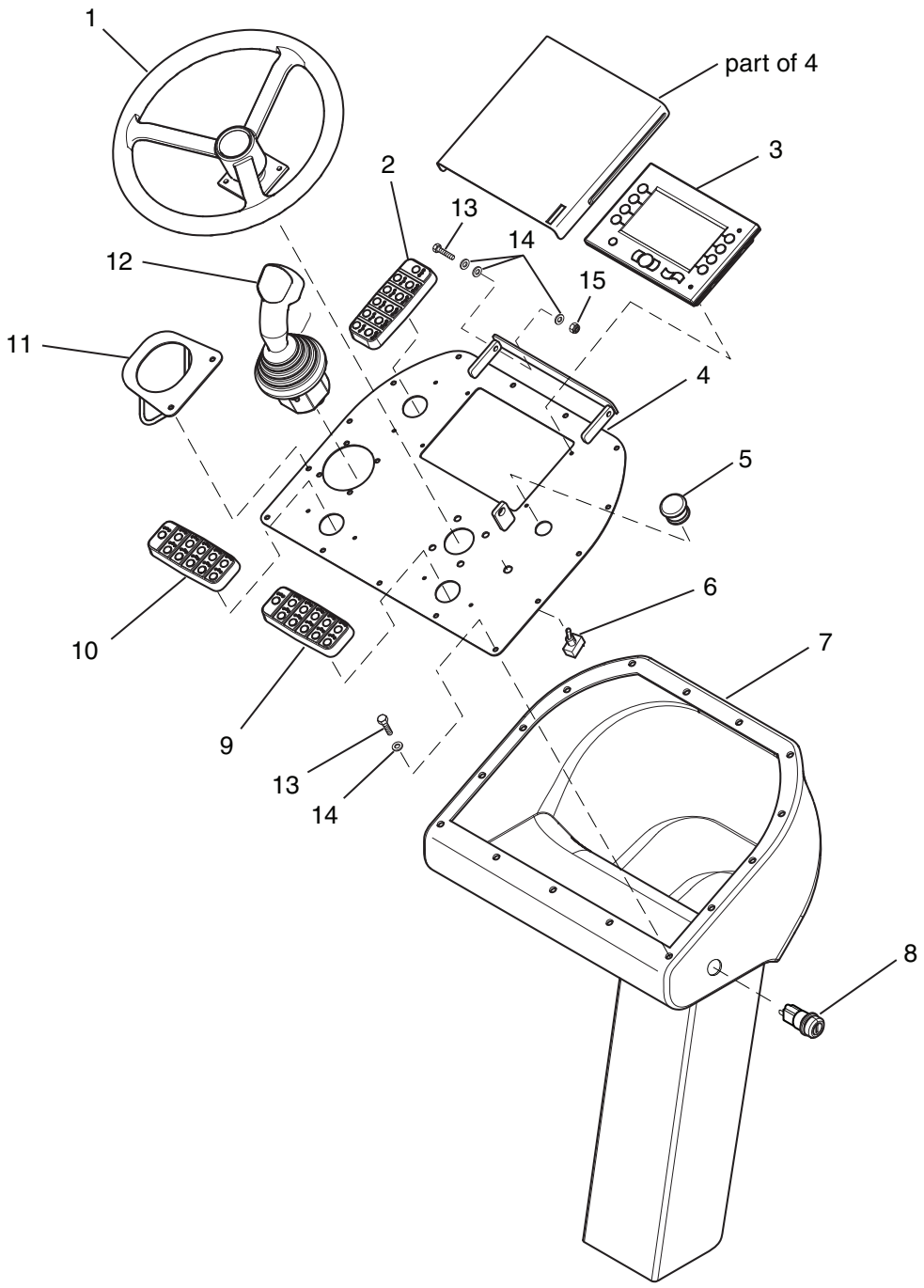


Figure 10-15

Controls Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989794		Group, Controls	
	1000777	1	Pedestal, Left	
	1000778	1	Pedestal, Right Not Shown	
1	1001055	1	Steering Unit, 9000	
–	· 981455	1	Steering Wheel, 15.00, 36 Spline	Not Shown
–	· 981456	1	Cap, Wheel, Steering	Not Shown
2	1000638	1	Keypad, Beacon, Screed	
3	1000999	1	Display, Color, LH Pedestal	
–	1000643	1	Display, Color, RH Pedestal	Not Shown
4	1000485	2	Plate, Control Panel	
5	988924-01	2	Switch, Emer Stop Assy	
6	500040	1	Toggle Switch	
7	1001053	2	Pedestal, 9000	
8	39146-14	1	Key Switch	
9	1000640	1	Keypad, Lights, Console	
10	1000639	1	Keypad, Horn, Console	
11	1002546	1	Cup Holder, LH	
–	1002547	1	Cup Holder, RH	Not Shown
12	1000636	1	Joystick, Propel	
13	–	17	CSHH, #10-24 x 1.00	Not Available, Buy Locally
14	119-A	21	Washer, Flat, SAE, #10	
15	–	2	Nut, Lock, #10-24	Not Available, Buy Locally

Auger Group Illustration

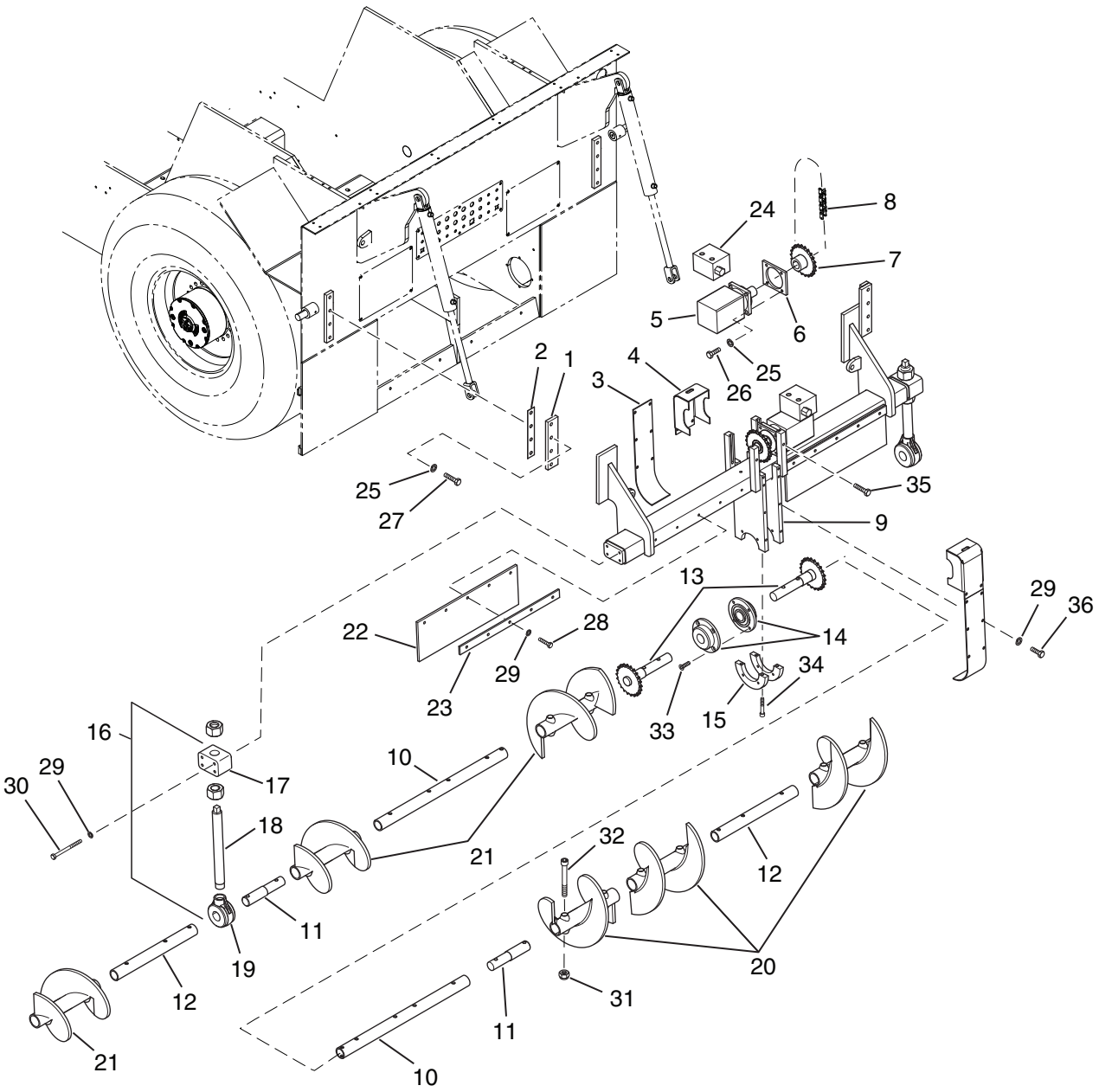


Figure 10-16

Auger Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	989790		Group, Auger	
1	989502	2	Plate, Slide Plate Clamp	
2	989503	2	Slide, Plastic, Auger	
3	989506	2	Cover, Chain, Auger, 9000	
4	980336	2	Cover, Chain, Auger, Top, 9000	
–	989508	1	Assy, Auger, 9000	(Shown in Phantom Assembly)
–	· 980143	2	Assy, Drive Motor, Auger	(Shown in Phantom Assembly)
5	· · 980230	1	Motor, Hydraulic, Auger, 8816	
6	· · 980127	1	Plate, Motor Mount	
7	· · 980188	1	Sprocket, Drive Motor, Auger	
8	· 1001712	2	Chain, 80, Auger, 9000	
9	· 984760	2	Support, Auger Brearing Plate, Upper	
10	· 989454	2	Tube, Auger, 9000	
11	· 989452	2	Shaft, Auger, Inner	
12	· 1001761	2	Shaft, Auger, Outer	
13	· 1001638	2	Assy, Sprocket, Outer Shaft	
14	· 989105	2	Bearing, Auger, Inner	
15	· 989461	2	Support, Auger Bearing, Inner	
16	· 989507	2	Assy, Auger End	
17	· · 989505	1	Mount, Auger Brace End, 9000	
18	· · 989455	1	Shaft, Auger Bearing Mount	
19	· · 989106	1	Bearing, Auger, Outer	
20	1000548	3	Assy, Auger, 16", Right Side	
21	1000549	3	Assy, Auger, 16", Left Side	
22	1000966	2	Rubber, Splash, Auger	
23	1001540	2	Bar, Rubber Clamp, Auger	
24	1000825	2	Manifold, Proportional, Conveyor	
25	118-7	12	Washer, Lock, .625	
26	102-607-1A	8	CSHH, .625-11 x 1.50, GR5	
27	71703	8	CSHH, .625-18 x 2.00, GR5	
28	102-409-1A	5	CSHH, .500-13 x 2.00, GR5	
29	118-7	29	Washer, Lock, .625	
30	102-421-1A	8	CSHH, .500-13 x 5.00, GR5	
31	143-7	12	Nut, Lock, .625-11	
32	388069	10	CSSH, .625-11 x 3.50, GR8	
33	80488	4	CSSH, .500-13 x 1.125, GR5	
34	81030	4	CSSH, .500-13 x 3.25, GR5	
35	1000938	4	CSSH, .500-13 x 2.00, GR5	
36	102-405-1A	16	CSHH, .500-13 x 1.00, GR5	

Screed Arms Group Illustration

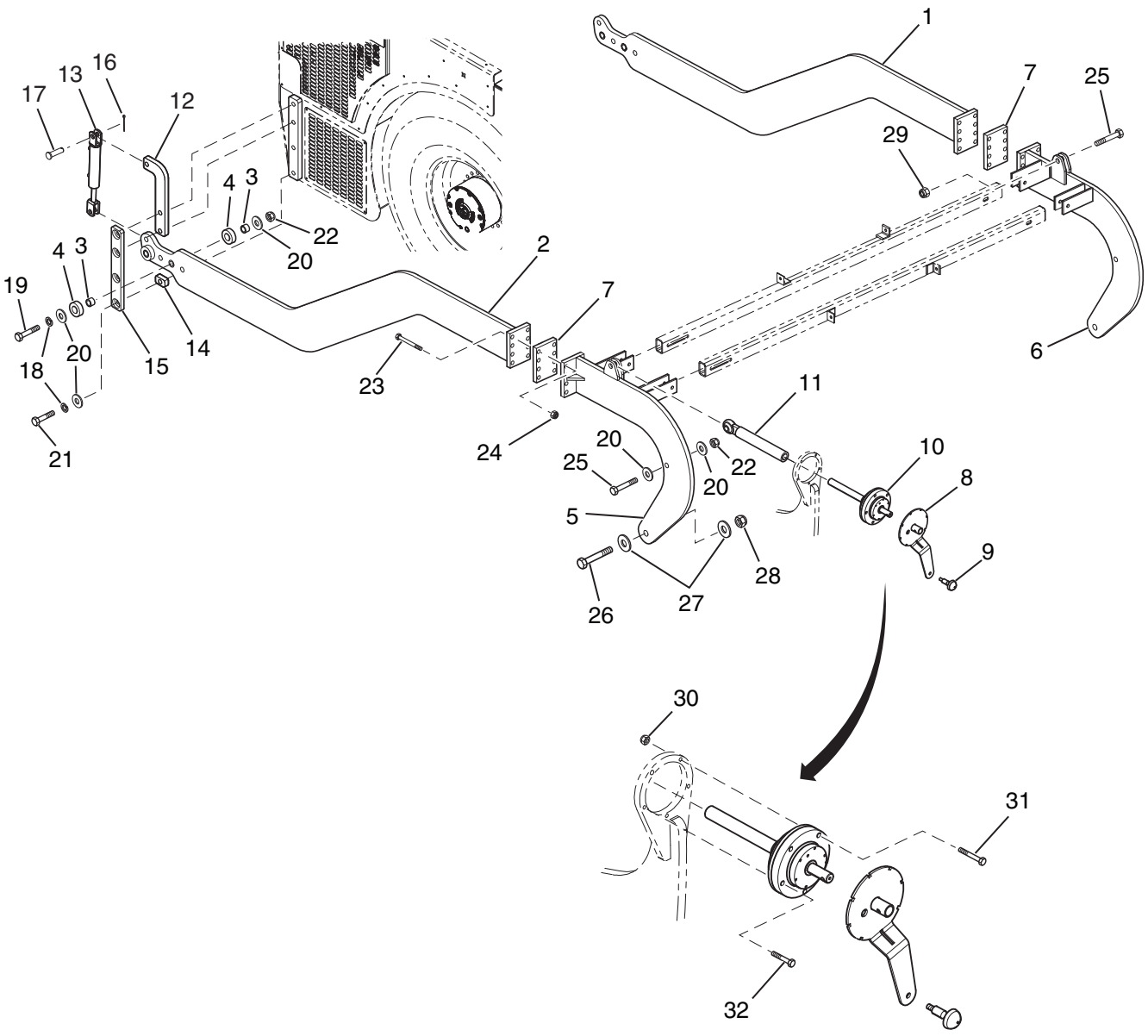


Figure 10-17

Screed Arms Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000659		Group, Screed Arms, 9000	
–	1000674	1	Assy, Screed Arm, RH, 9000	(Shown in Phantom Assembly)
1	· 1002345	1	W/M, Screed Arm, RH, Front	
–	· 980441	4	Tube, Arm Inner Roller Stop	Not Shown
–	· 980439	4	Bar, Screed Arm Stop	Not Shown
–	1000673	1	Assy, Screed Arm, LH, 9000	Not Shown
2	· 1002346	1	W/M, Screed Arm, LH, Front	
3	· 980441	4	Tube, Arm Inner Roller Stop	
4	· 980439	4	Bar, Screed Arm Stop	
5	1002348	1	W/M, Screed Arm, LH, Rear	
6	1002349	1	W/M, Screed Arm, RH, Rear	
7	· 989600	2	Spacer Plate	
–	981451	2	Assy, Flight Screw, RH Thread	Not Shown
–	1001858	1	RND, Toe Point Gauge, RH	Not Shown
–	1001859	1	RND, Toe Point Gauge, LH	Not Shown
–	1002347	2	Assy, Flight Screw, Complete	Not Shown
8	· 1000996	1	Assy, Handle, Flight Screw	
9	· · 981574	1	Knob, Revolving Ball, M12 x 1.75	
10	· 1001966	1	Assy, Flight Screw, 9000	
11	· 1002016	1	W/M, Tilt Adjuster	
–	989588	1	Assy, Toe Point, LH, 9000	Not Shown
12	· 989585	1	Plate, Cyl Mtg, Toe Point	
13	· 981503	1	CYL, HYD, 2.00 x 7.00 x 1.00 Rod	
14	· 989587	1	Bar, Spacer, Toe Point	
15	· 989586	1	Bar, Clamp, Toe Point	
–	989591	1	Assy, Toe Point, RH, 9000	Not Shown
–	· 989585	1	Plate, Cyl Mtg, Toe Point	Not Shown
–	· 981503	1	CYL, HYD, 2.00 x 7.00 x 1.00 Rod	Not Shown
–	· 989587	1	Bar, Spacer, Toe Point	Not Shown
–	· 989586	1	Bar, Clamp, Toe Point	Not Shown
16	81019	2	Pin, Cotter	
17	240030	2	Pin, Clevis	
18	118-10	10	Washer, Lock, 1.00	
19	100-915-1A	4	CSHH, 1.00-14 x 3.50, GR5	
20	119-10	10	Washer, Flat, SAE, 1.00	
21	100-913-1A	6	CSHH, 1.00-14 x 3.00, GR5	

Screed Arms Group Illustration (Continued)

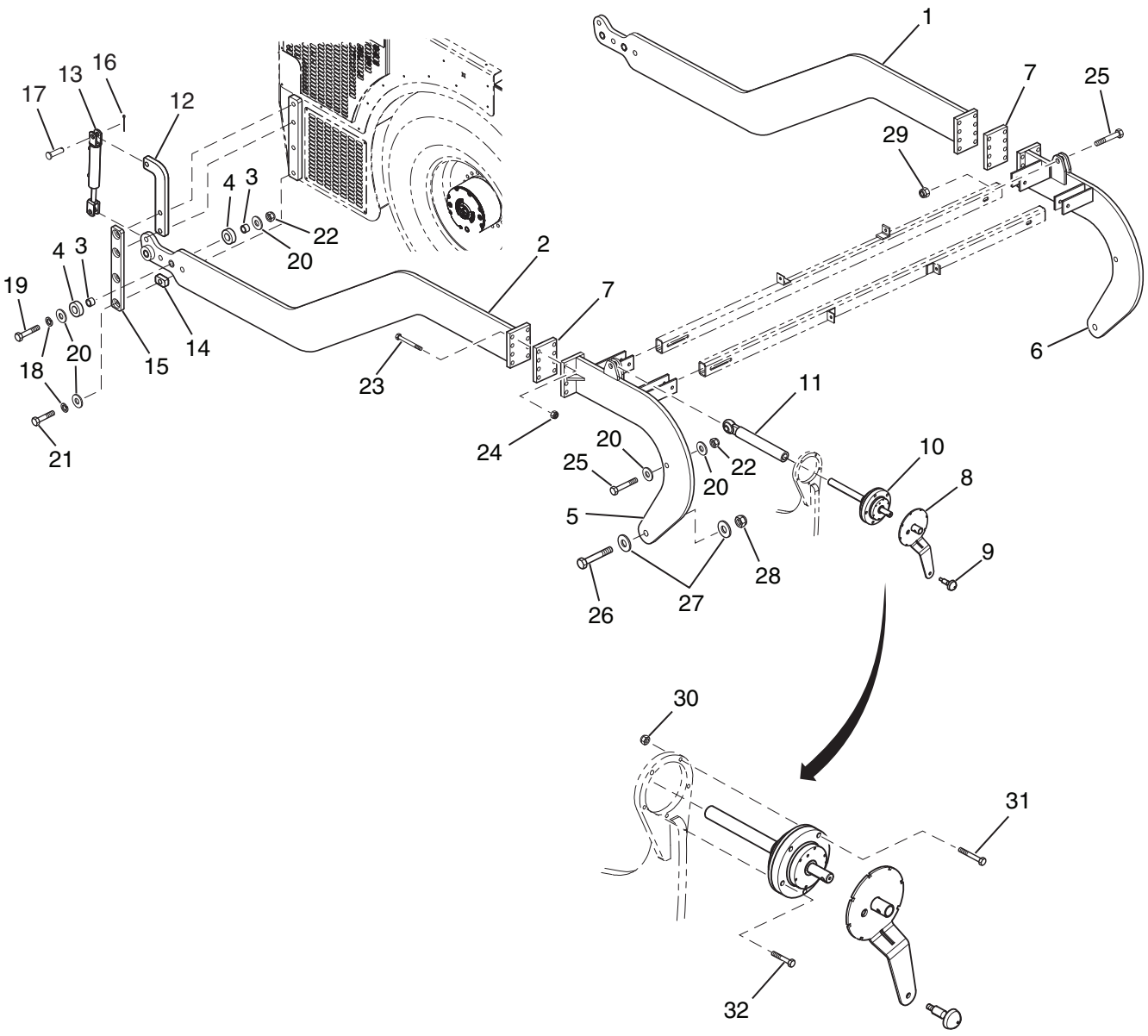


Figure 10-18

Screed Arms Group Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
22	1002464	2	Nut, Lock, 1.00-14	
23	102-717-1A	16	CSHH, .750-10 x 4.00, GR5	
24	143-10	16	Nut, Lock, .750-10	
25	100-915-1A	4	CSHH, 1.00-14 x 3.50, GR5	
26	130041	2	CSHH, 1.25-7 x 4.50, GR5	
27	119-12	4	Washer, Flat, SAE, 1.25	
28	143-12	2	Nut, Lock, 1.25-7	
29	80377	2	Nut, Flexloc, 1.00-14	
30	143-4	4	Nut, Lock, .437-14	
31	102-312-1A	4	CSHH, .437-14 x 2.75, GR5	
32	102-310-1A	6	CSHH, .437-14 x 2.25, GR5	

Screed Base Group Illustration

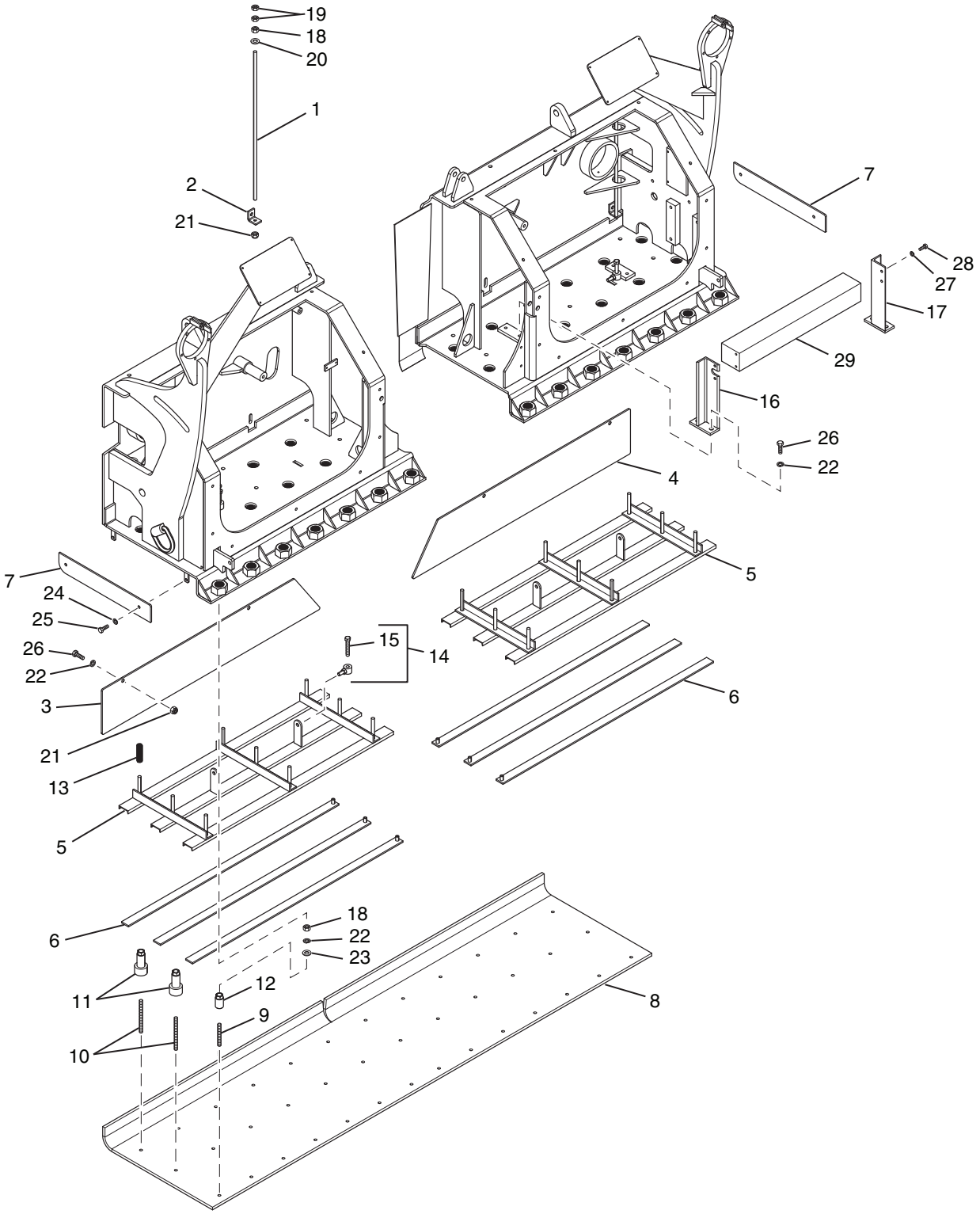


Figure 10-19

Screed Base Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000590	1	Assy, Screed Base, w/Wear Plate	
–	· 1001680	4	Assy, Strike Off Adjuster	(Shown in Phantom Assembly)
1	· · 989845	1	Rod, Thrd, Adjuster, Strike Off	
2	· · 989840	1	Bracket, Adjuster, Strike Off	
3	· 989839	1	Plate, Strike Off, LH	
4	· 989872	1	Plate, Strike Off, RH	
5	· 1000974	2	W/M, Heating Element Clamp	
–	· 987886	6	Elements, Heater, Screed, 46"	
6	· · 985118	1	Element, Heater, Screed, 46"	
–	· · 983198	1	Conn, 02-Pin, Soc, DT04-2P	Not Shown
–	· · 983209	1	Conn, Wedge, Recp, 2P, Deutsch	Not Shown
–	· · 986522	4	Insulation, 0.25 x 1 x 12", Adhesive	Not Shown
7	· 989828	2	Plate, End Cover	
–	· 1002073	1	Assy, Wear Plate w/Rod Adjuster	(Shown in Phantom Assembly)
8	· · 989650	1	Plate, Screed Wear	
9	· · 989829	14	Rod, Thrd, Adjuster, Wear Plate	
10	· · 989838	24	Rod, Thrd, Adjuster, Strike Plate	
11	· 1000027	24	Shaft, Thrd, Adjuster, Wear Plate	
12	· 1000026	14	Shaft, Adjuster, Wear Plate Back	
13	· 1000982	18	Spring, Element Rack	
14	· 1001941	4	Assy, Adjuster, Element Rack	
15	· · 102-413-1	1	CSHH, .500-13 x 3.00, GR5	
16	· 1002590	1	W/M, Mount, Screed Manifold, LH	
17	· 1002591	1	W/M, Mount, Screed Manifold, RH	
18	116-5	40	Nut, Hex, .500-13	
19	116-5-1	4	Nut, Hex, Jam, .500-13	
20	120-5	2	Washer, Flat, SAE, .500	
21	143-5	6	Nut, Lock, .500-13	
22	118-5	46	Washer, Lock, .500	
23	119-5	38	Washer, Flat, SAE, .500	
24	118-3	4	Washer, Lock, .375	
25	102-205-1A	4	CSHH, .375-16 x 1.00, GR5	
26	102-405-1A	8	CSHH, .500-13 x 1.00, GR5	
27	118-2	4	Washer, Lock, .312	
28	102-103-1A	4	CSHH, .312-18 x .750, GR5	
29	1000826	1	Manifold, Main, Screed	

Screed Extension Group Illustration

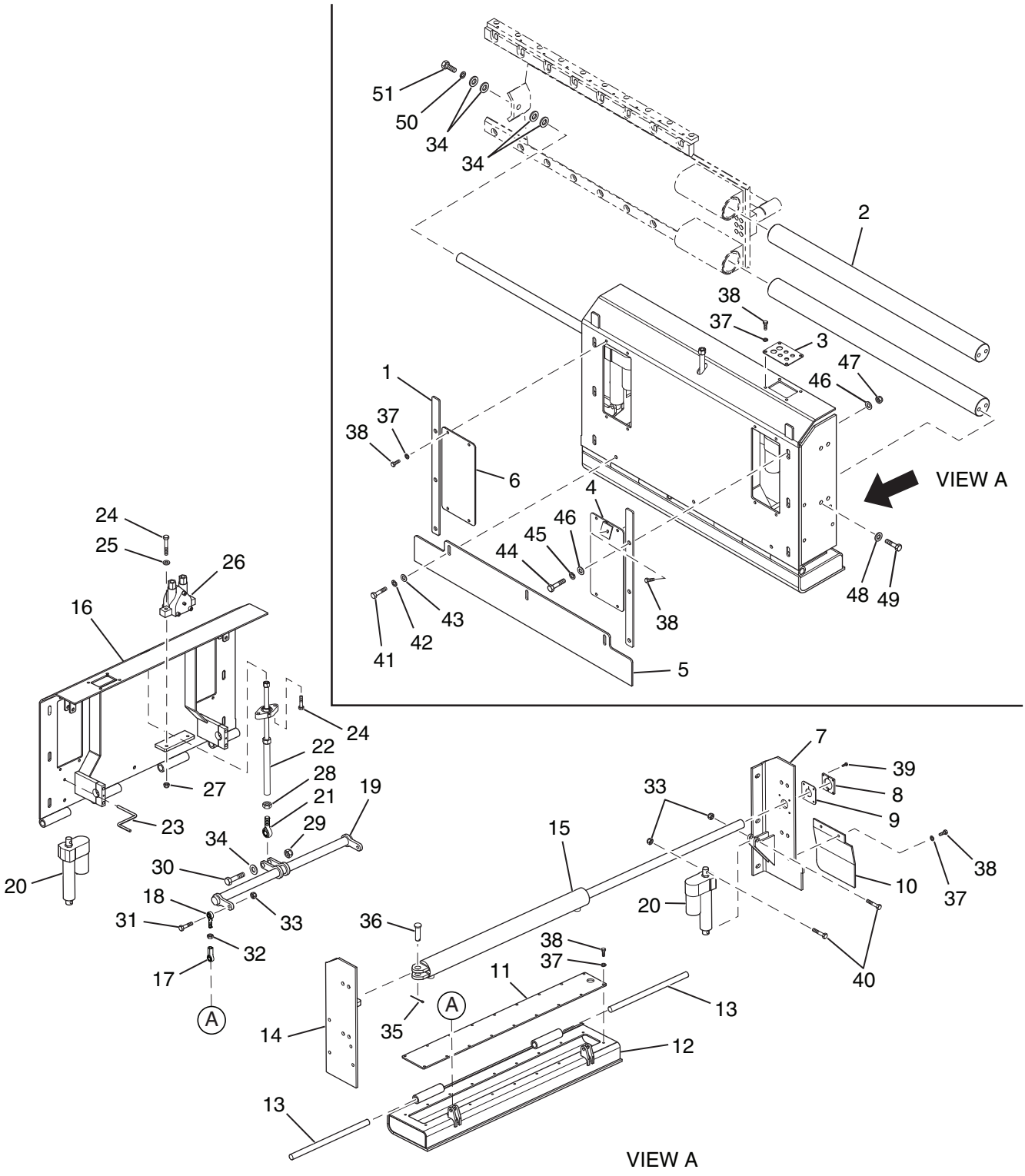


Figure 10-20

Screed Extension Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000588	1	Assy, Screed Extension, LH, 9000	
–	1000589	1	Assy, Screed Extension, RH, 9000	Not Shown
1	· 1000650	2	Bar, w/Holes, Vertical Lift Gauge	
2	· 989651	2	Shaft, Screed Extension	
3	· 1000446	1	Plate, Bulkhead, Extension, 9000	
4	· 1002331	1	W/M, Cover, Access Hole, Ext., LH	
–	· 1002326	1	W/M, Cover, Access Hole, Ext., RH	Not Shown
5	· 1000443	1	Plate, Strikeoff, Extension, 9000	
6	· 1000442	1	Cover, Access Hole, Extension, 9000	
7	· 1002332	1	W/M, Inside Frame Screed Ext., LH	
–	· 1002325	1	W/M, Inside Frame Screed Ext., RH	Not Shown
8	· 1000483	2	Bracket, Rubber Wipe Mount, 9000	
9	· 1000482	1	Rubber Wipe, Screed Cylinder, 9000	
10	· 1000447	1	Cover Plate, LH, Extension, 9000	
–	· 1000463	1	Cover Plate, RH, Extension, 9000	Not Shown
–	· 1002334	1	Assy, Heat Box, Ext., LH	(Shown in Phantom Assembly)
11	· · 989921	1	Cover, Heat Plate, Top Access, Ext.	
12	· · 1000593	1	W/M, Heat Box, Ext., LH	
–	· 1002329	1	Assy, Heat Box, Ext., RH	Not Shown
–	· · 1000604	1	W/M, Heat Box, Ext., RH	Not Shown
–	· · 989921	1	Cover, Heat Plate, Top Access, Ext.	Not Shown
13	· 1000022	2	Rod, Pipe Hinge, Inner, Ext., 9000	
14	· 1002333	1	W/M, Outside Frame, Screed Ext., LH	
–	· 1002327	1	W/M, Outside Frame, Screed Ext., RH	Not Shown
15	· 1000056	1	Cylinder, Primary, Extension	
16	· 1002330	1	W/M, Screed Extension, LH	
–	· 1002324	1	W/M, Screed Extension, RH	Not Shown
17	· 1000945	2	Ball Joint, 1/2 Female	
18	· 1000946	2	Ball Joint, 1/2 Male	
19	· 1002328	1	W/M, Tilt Adjust, 9000	
20	· 870302	2	Actuator, Linear, 4.00, 12V	
21	· 1000947	1	Ball Joint, 3/4 Male	
22	· 1000458	1	Assy, Tilt Adjust, Ext., 9000	
23	· 1001910	1	Rod, Thrd, Vertical Lift Gauge	
24	102-311-1A	8	CSHH, .437-14 x 2.50, GR5	
25	119-4	4	Washer, Flat, SAE, .437	

Screed Extension Group Illustration (Continued)

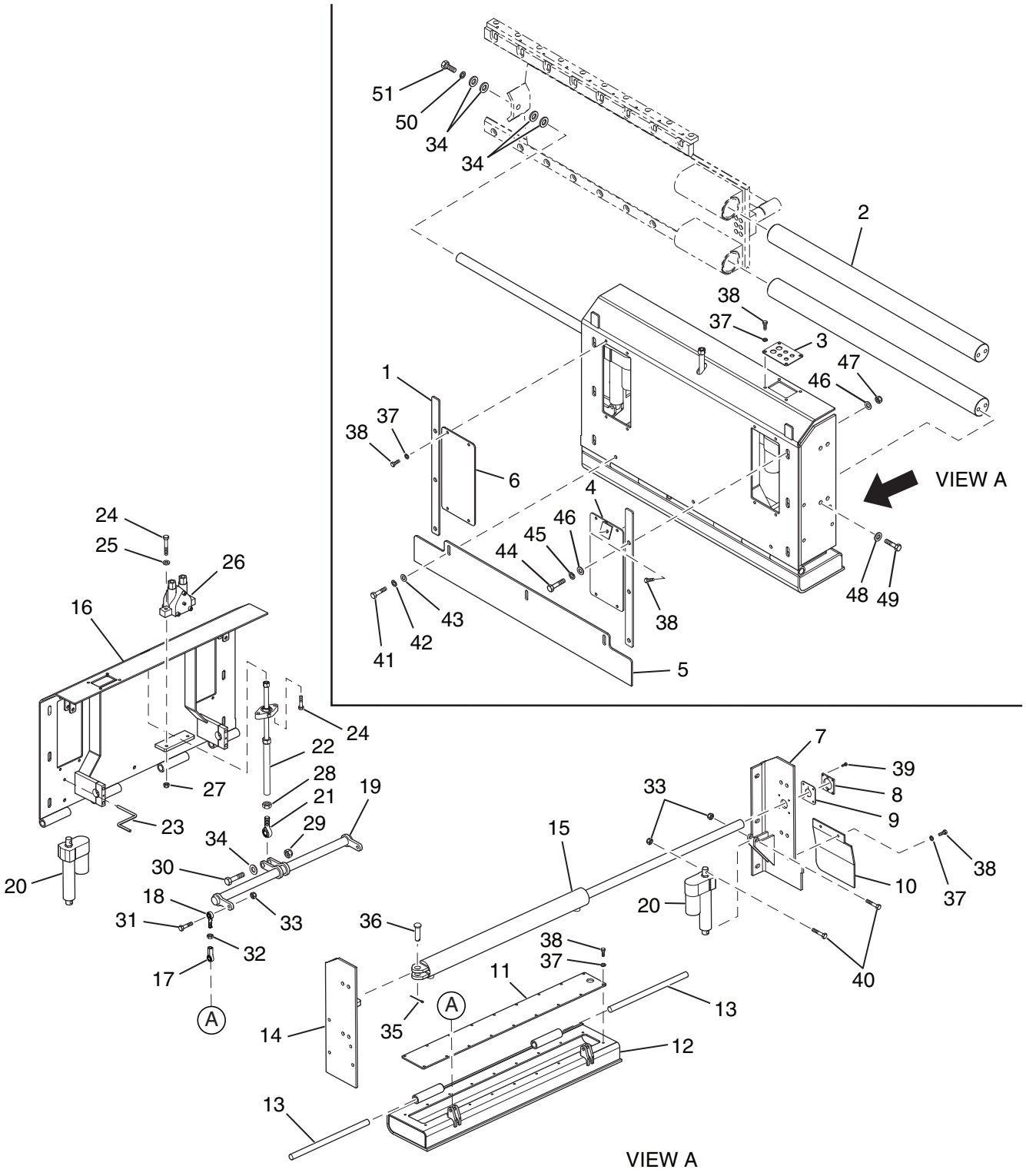


Figure 10-21

Screed Extension Group Parts List (Continued)

Item No.	Part Number	Qty.	Description	Remarks
26	1000059	2	Vibrator, Hydraulic	26
27	143-4	4	Nut, Lock, .437-14	27
28	115-8-1	2	Nut, Hex, Jam, .750-10	28
29	143-8	2	Nut, Lock, .750-10	29
30	102-713-1A	2	CSHH, .750-10 x 3.00, GR5	30
31	102-409-1A	4	CSHH, .500-13 x 2.00, GR5	31
32	115-5-1	4	Nut, Hex, Jam, .500-20	32
33	143-5	12	Nut, Lock, .500-13	33
34	119-8	14	Washer, Flat, SAE, .750	34
35	81019	2	Pin, Cotter	35
36	240030	2	Pin, Clevis	36
37	118-3	64	Washer, Lock, .375	37
38	102-205-1A	66	CSHH, .375-16 x 1.00, GR5	38
39	102-3-1A	8	CSHH, .250-20 x .750, GR5	39
40	102-411-1A	8	CSHH, .500-13 x 2.50, GR5	40
41	102-408-1A	6	CSHH, .500-13 x 1.75, GR5	41
42	118-5	6	Washer, Lock, .500	42
43	119-5	6	Washer, Flat, SAE, .500	43
44	102-609-1A	12	CSHH, .625-11 x 2.00, GR5	44
45	118-7	12	Washer, Lock, .625	45
46	119-7	24	Washer, Flat, SAE, .625	46
47	143-7	12	Nut, Lock, .625-11	47
48	986811	8	Washer, Wedge Lock, .67 ID	48
49	71703	8	CSHH, .625-18 x 2.00, GR5	49
50	118-8	6	Washer, Lock, .750	50
51	80460	6	CSHH, .750-16 x 2.00, GR5	51

Slope and Vibrator Group Illustration (sheet 1 of 2)

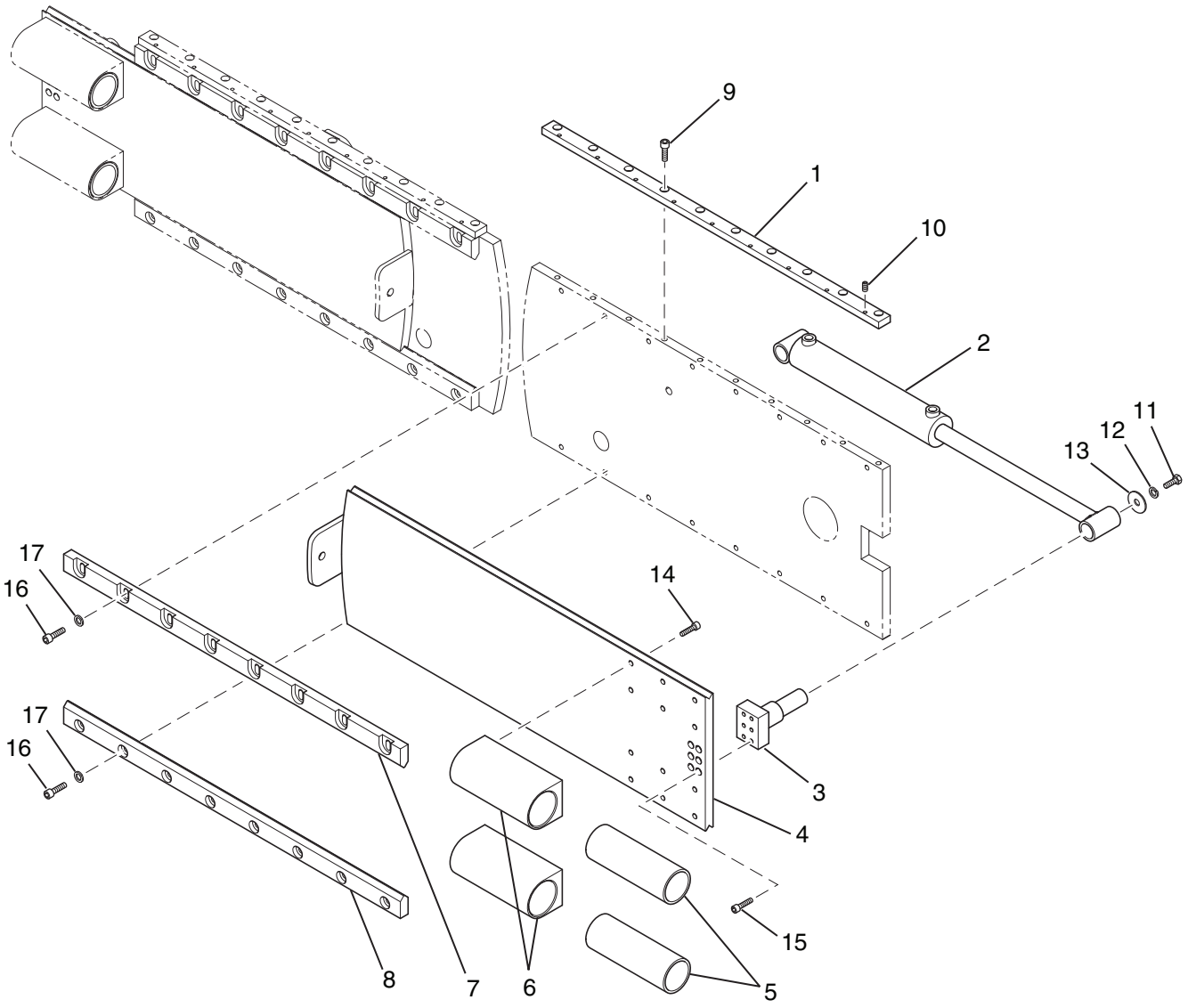


Figure 10-22

Slope and Vibrator Group Parts List (sheet 1 of 2)

Item No.	Part Number	Qty.	Description	Remarks
			Slope & Vibrator Screed Extension	
1	989857	2	Mount, Top Brace, Extension	
2	1000058	2	Cylinder, Secondary, Extension	
–	1000594	1	Assy, Tilt Plate, Extension, LH	(Shown in Phantom Assembly)
3	· 1002340	1	W/M, Cylinder Mount, Ext., Screed	
4	· 1002337	1	W/M, Slide Plate, Screed Ext., LH	
5	· 989916	2	Bushing, Fiber, 3" ID	
6	· 989948	2	Block, Slide	
7	989653	2	Bar, Top Rail, Extension	
8	989654	2	Bar, Bottom Rail, Extension	
–	1002338	1	Assy, Tilt Plate, Extension, RH	Not Shown
–	· 1002340	1	W/M, Cylinder Mount, Ext., Screed	Not Shown
–	· 1002339	1	W/M, Slide Plate, Screed Ext., RH	Not Shown
–	· 989916	2	Bushing, 3" ID	Not Shown
–	· 989948	2	Block, Slide	Not Shown
9	100-405-1A	20	CSHH, .500-20 x 1.00, GR5	
10	1002808	18	Set Screw, .375-24 x 0.75	
11	102-405-1A	4	CSHH, .500-13 x 1.00, GR5	
12	118-5	4	Washer, Lock, .500	
13	R49	4	Washer, Flat, USSHD, .500 x 2.00 x .188	
14	1002810	24	CSSH, .437-20 x 1.25, GR5	
15	1002812	12	CSSH, .437-20 x 1.50, GR5	
16	100-407-1A	32	CSHH, .500-20 x 1.50, GR5	
17	986810	32	Washer, Wedge Lock, .500 ID	

Slope and Vibrator Group Illustration (sheet 2 of 2)

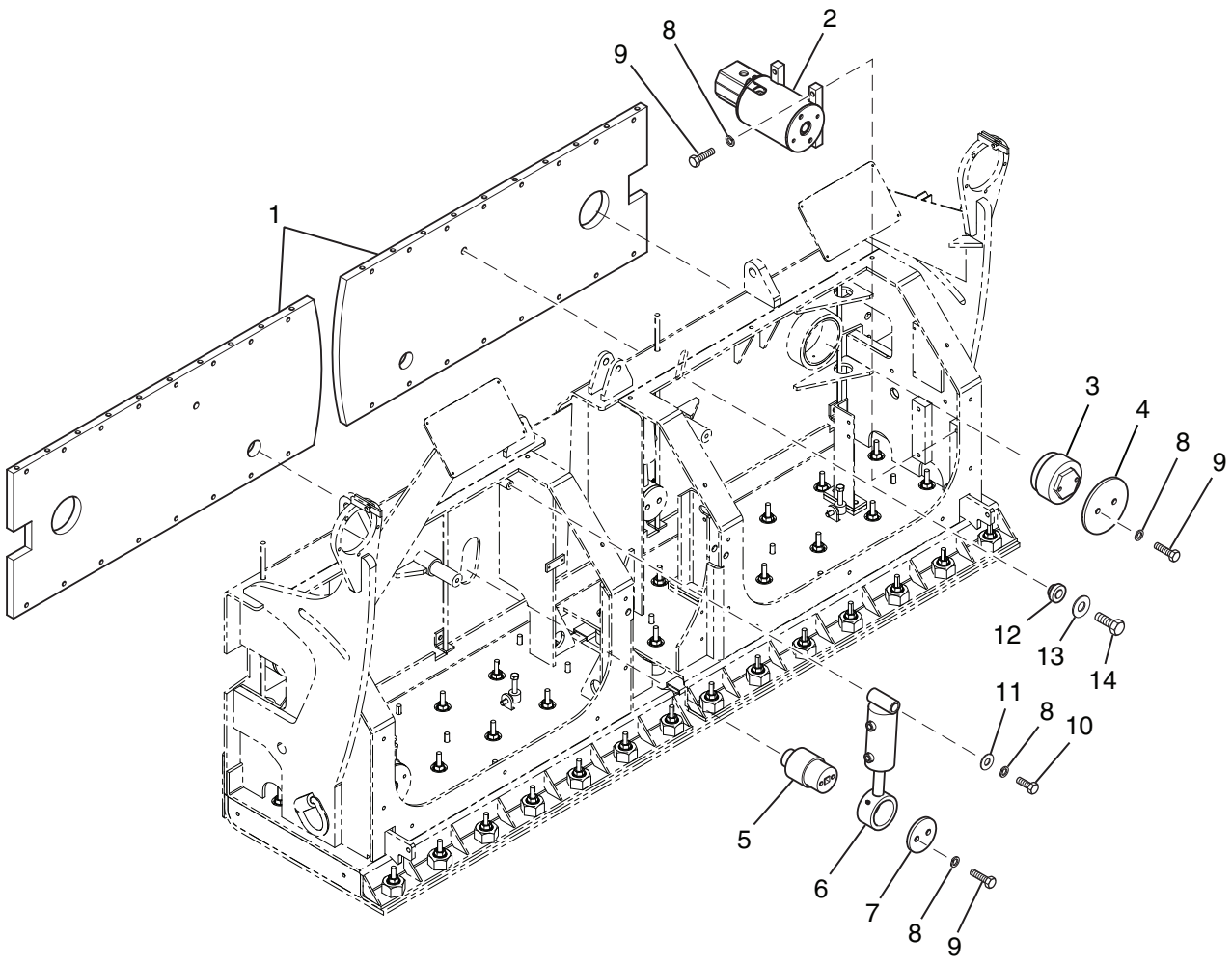


Figure 10-23

Slope and Vibrator Group Parts List (sheet 2 of 2)

Item No.	Part Number	Qty.	Description	Remarks
			Slope and Vibrator, Sheet 2 of 2	
1	989912	2	Plate, Tilt Extension	
2	1000605	2	Assy, Vibrator, Screed	
–	· 854662	1	Assy, Screed Vibrator	Not Shown
–	· · 102-609-1A	3	CSHH, .625-11 x 2.00, GR5	Not Shown
–	· · 118-7	2	Washer, Lock, .625	Not Shown
–	· · 280030	1	CPLG Half, 3 Jaw, .625	Not Shown
–	· · 280040	1	Insert, 3-Jaw Coupling	Not Shown
–	· · 855535	1	Vibrator Assy, Less Motor,	Not Shown
–	· · 880030	1	CPLG Half, 3 Jaw, 1"	Not Shown
–	· · 983405	1	Motor, Hyd, Gear, 1.17 CIR, “A”	Not Shown
3	980232	2	Bar, Pivot	
4	980254	2	Plate, Pivot Cover	
5	989985	2	Shaft, Cylinder Mount	
6	980420	2	Cylinder, Hydraulic	
7	989903	2	Plate, Cylinder Tilt Lock	
8	118-5	18	Washer, Lock, .500	
9	1002811	16	CSHH, .500-20 x 1.50, GR8	
10	81002	2	CSHH, .500-13 x 1.00, GR8	
11	R49	2	Washer, Flat, USSHD, .500 x 2.00 x .188	
12	1001756	2	Bushing, Screed Pivot	
13	119-8	2	Washer, Flat, SAE, .750	
14	1002809	2	CSHH, .750-16 x 1.50, GR5	

Crown and Valley w/Walkboard Group Illustration

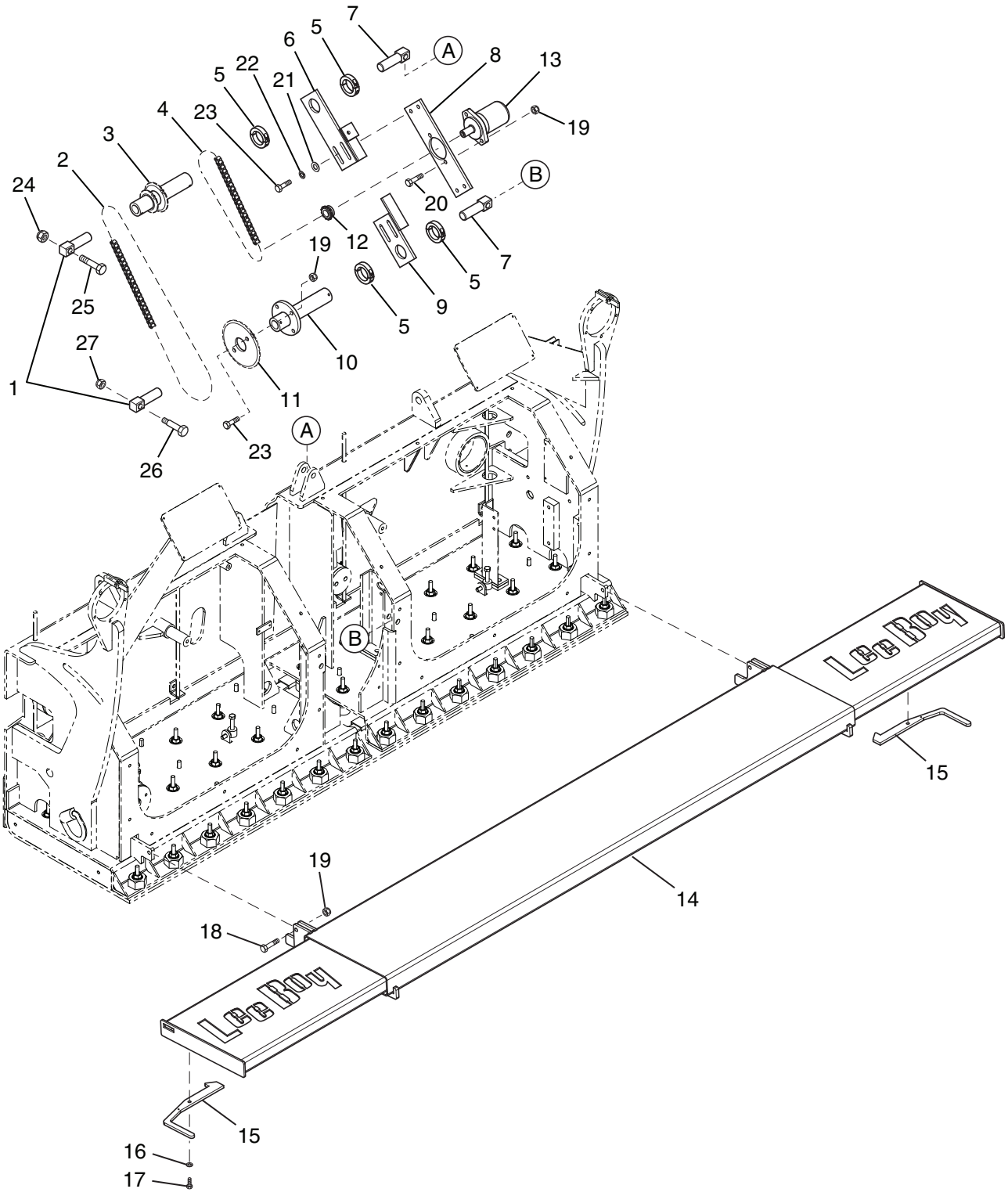


Figure 10-24

Crown and Valley w/Walkboard Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000845		Group, Crown & Valley / Walkboard	
–	1002319	1	Assy, Crown & Valley	(Shown in Phantom Assembly)
1	· 1000843	2	Shaft, C&V Screw, LH	
2	· 1001854	1	Chain, C&V, #50, Crown to Crown	
3	· 1002321	1	W/M, C&V, Turnbuckle, Upper	
4	· 1001853	1	Chain, C&V, #50, Crown to Motor	
5	· 6436K27	4	Collar, Locking	
6	· 1002322	1	W/M, Upper Mount, C&V	
7	· 1000844	2	Shaft, C&V Screw, RH	
8	· 1000841	1	Plate, Center Mount, C&V	
9	· 1002323	1	W/M, Lower Mount, C&V	
10	· 1002320	2	W/M, C&V, Turnbuckle, Lower	
11	· 1001695	1	Sprocket, Type "A", 34T X 7.12" OD	
12	· 1000799	1	Sprocket, #50, Roller Chain	
13	986640	1	Motor, Electric	
–	1000658	1	Group, Walkboard	
14	1000470	1	Assy, Walkboard	
15	985549	2	Latch, Walkboard	
16	119-3	2	Washer, Flat, SAE, .375	
17	102-205-1A	2	CSHH, .375-16 x 1.00, GR5	
18	102-409-1A	2	CSHH, .500-13 x 2.00, GR5	
19	143-5	6	Nut, Lock, .500-13	
20	102-408-1A	2	CSHH, .500-13 x 1.75, GR5	
21	119-5	4	Washer, Flat, SAE, .500	
22	118-5	4	Washer, Lock, .500	
23	102-407-1A	6	CSHH, .500-13 x 1.50, GR5	
24	143-8	2	Nut, Lock, .750-10	
25	81027	2	CSHH, .750-10 x 3.25, GR8	
26	1002813	2	Shoulder Bolt, .625-11 x 3.00	
27	143-7	2	Nut, Lock, .625-11	

Control Box and Gauges Group Illustration

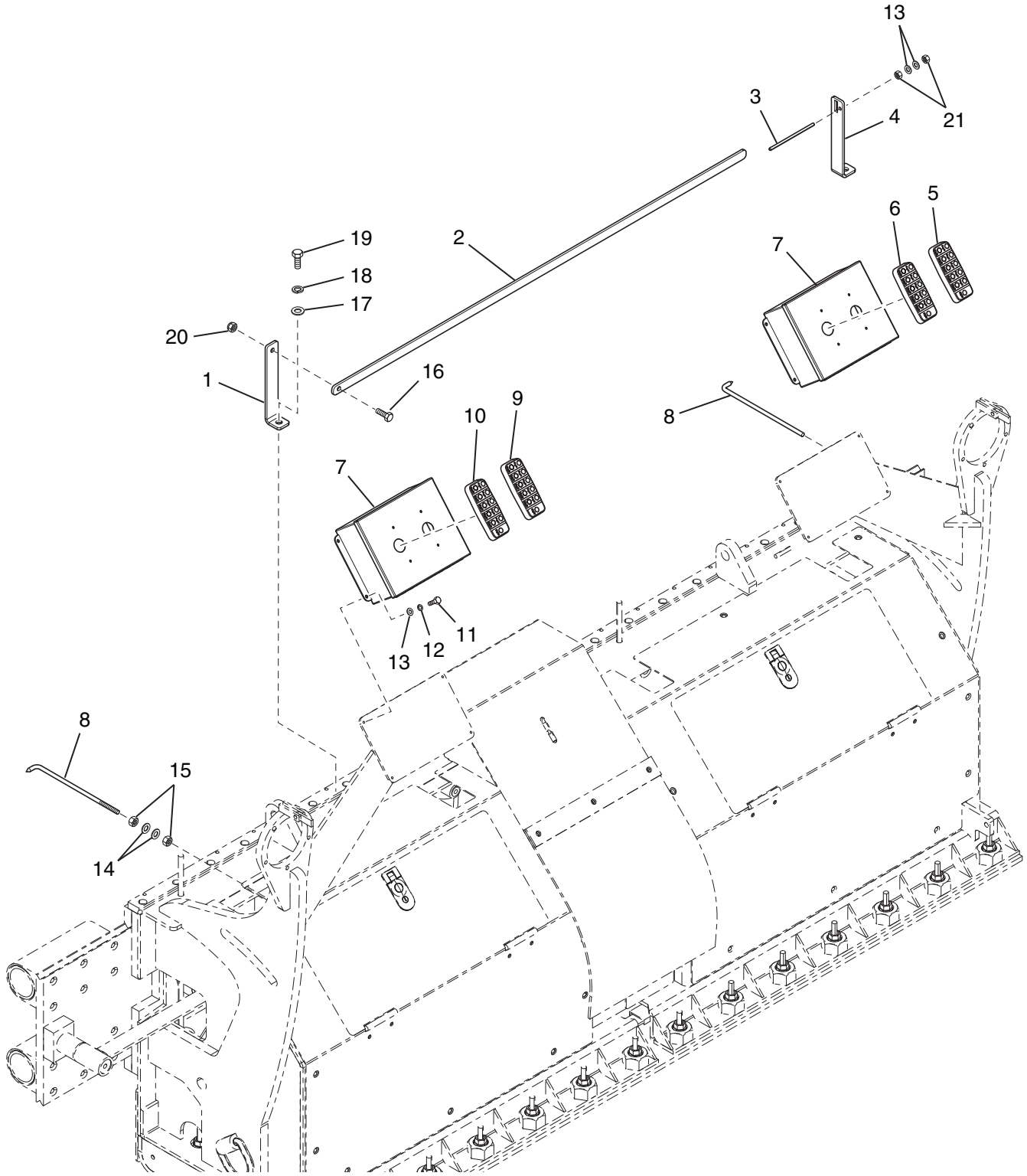


Figure 10-25

Control Box and Gauges Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
			Control Box and Gauges	
1	1001879	1	Bar, C&V Gauge Mount w/Hole	
2	1001882	1	Bar, C&V Gauge	
3	1001881	1	Rod, C&V Gauge	
4	1001880	1	Bar, C&V Gauge Mount w/Slot	
5	1000774	1	Keypad, Node 2, Right Side Horn	
6	1000773	1	Keypad, Node 1, Right Side	
7	1002200	2	Box, Screed Control, 9000	
8	1000848	2	Rod, Threaded, Thickness Gauge	
9	1000776	1	Keypad, Node 4, Left Side Horn	
10	1000775	1	Keypad, Node 3, Left Side	
11	102-3-1A	8	CSHH, .250-20 x .750, GR5	
12	118-1	8	Washer, Lock, .250	
13	119-1	10	Washer, Flat, SAE, .250	
14	119-3	4	Washer, Flat, SAE, .375	
15	115-3	4	Nut, Hex, .375-24	
16	102-305-1A	1	CSHH, .437-14 x 1.00, GR5	
17	119-5	1	Washer, Flat, SAE, .500	
18	118-5	1	Washer, Lock, .500	
19	102-405-1A	1	CSHH, .500-13 x 1.00, GR5	
20	143-4	1	Nut, Lock, .437-14	
21	–	2	Nut, Hex, .250-20	

Screed Covers Group Illustration

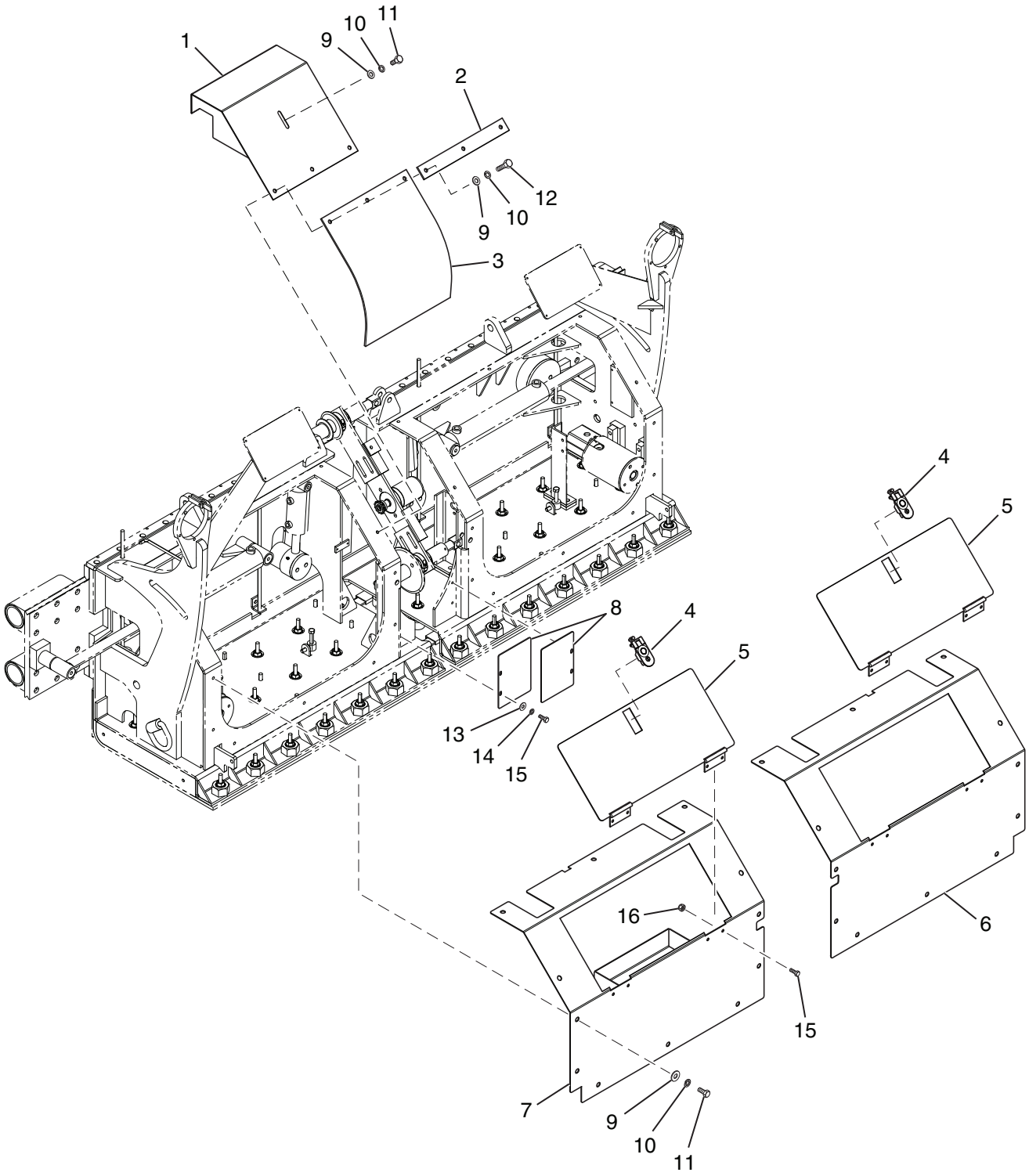


Figure 10-26

Screed Covers Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
			Screed Covers - 9000	
–	1002317	1	Assy, Crown & Valley Cover	(Shown in Phantom Assembly)
1	· 1002318	1	W/M, Crown & Valley Cover	
2	· 1000789	1	Bar, Rubber Mount, Crown & Valley	
3	· 1000790	1	Rubber, Crown & Valley Cover	
–	1000607	1	Assy, Frame Cover, RH, 9000	(Shown in Phantom Assembly)
4	· 980460	1	Lever Latch	
5	· 1002335	1	W/M, Frame Cover Access	
6	· 989900	1	Plate, Frame Cover	
–	1000606	1	Assy, Frame Cover, LH, 9000	(Shown in Phantom Assembly)
4	· 980460	1	Lever Latch	
5	· 1002335	1	W/M, Frame Cover Access	
7	· 1002336	1	W/M, Frame Cover w/Tool Box	
8	1000207	2	Plate, Back Lower Cover	
9	119-5	28	Washer, Flat, SAE, .500	
10	118-5	28	Washer, Lock, .500	
11	102-405-1A	25	CSHH, .500-13 x 1.00, GR5	
12	102-407-1A	3	CSHH, .500-13 x 1.50, GR5	
13	119-3	4	Washer, Flat, SAE, .375	
14	118-3	4	Washer, Lock, .375	
15	102-205-1A	12	CSHH, .375-16 x 1.00, GR5	

Jointer Group Illustration

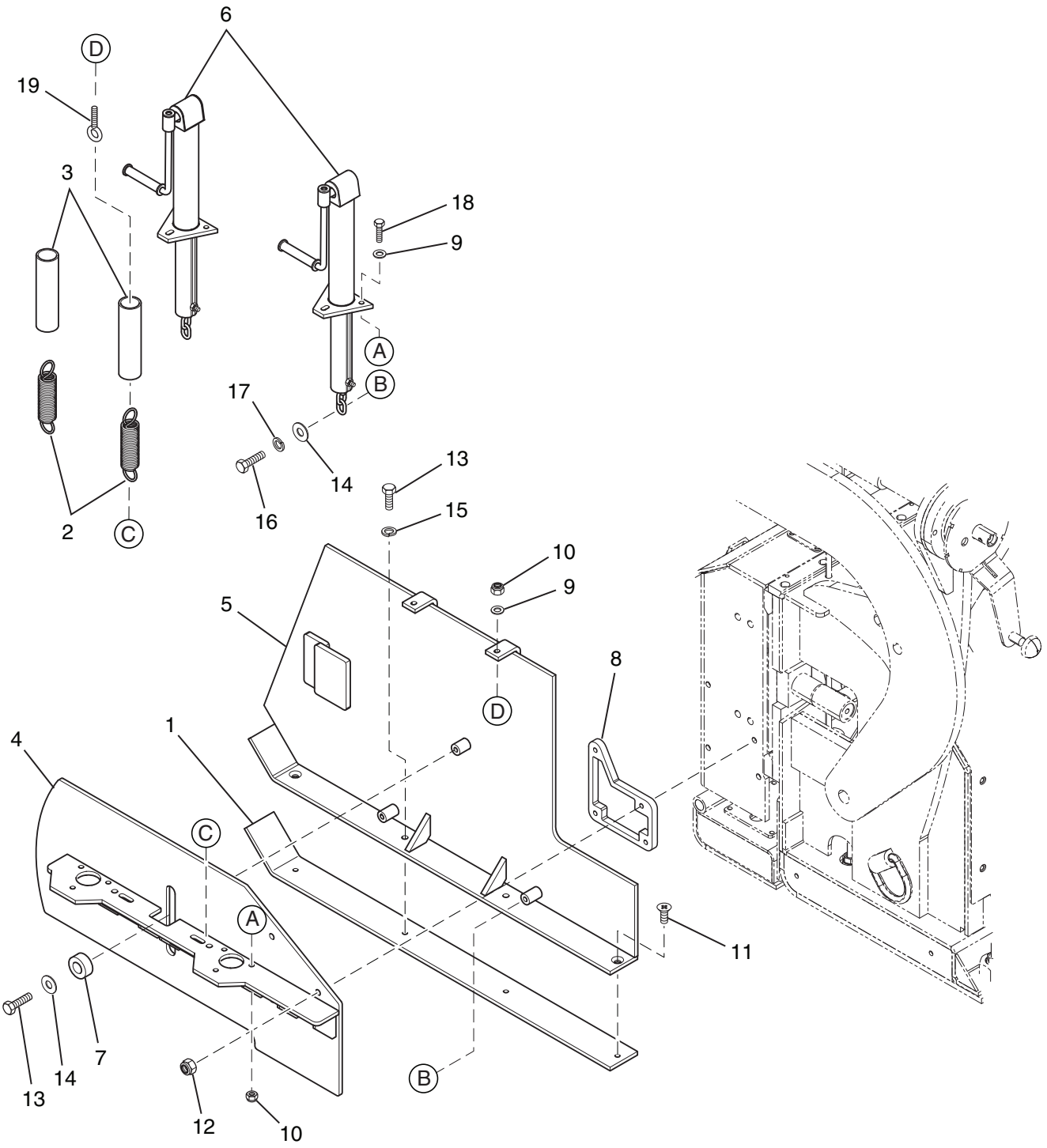


Figure 10-27

Jointer Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	10000657		Group, Jointer, 9000	
	1000596	1	Assy, Endgate, LH, 9000 Screed	
1	· 1000041	1	Plate, Endgate, Wear	
2	· 930029	2	Spring, Comp	
3	· 852428	2	Pipe, Chain Guard, PVC	
4	· 1000598	1	Weldment, Endgate, Fixed, LH 9000	
5	· 1000599	1	Weldment, Endgate, Floating, LH 9000	
6	· 1000042	2	Assy, Crank, Endgate	
7	· 1000038	1	Bushing, Floating Post, Center	
8	· 1000030	1	Plate, Extension, Spacer	
–	1000597	1	Assy, Endgate, RH, 9000 Screed	Not Shown
–	· 1000041	1	Plate, Endgate, Wear	Not Shown
–	· 930029	2	Spring, Comp	Not Shown
–	· 852428	2	Pipe, Chain Guard, PVC	Not Shown
–	· 1000602	1	Weldment, Endgate, Fixed, RH 9000	Not Shown
–	· 1000603	1	Weldment, Endgate, Floating, RH 9000	Not Shown
–	· 1000042	2	Assy, Crank, Endgate	Not Shown
–	· 1000038	1	Bushing, Floating Post, Center	Not Shown
–	· 1000030	1	Plate, Extension, Spacer	Not Shown
9	119-3	16	Washer, Flat, SAE, .375	
10	143-3	16	Nut, Lock, .375-16	
11	1002814	4	CSFHS, .500-13 x 0.75, GR5	
12	143-5	2	Nut, Lock, .500-13	
13	102-405-1A	6	CSHH, .500-13 x 1.00, GR5	
14	119-5	6	Washer, Flat, SAE, .500	
15	986810	4	Washer, Wedge Lock, .500 ID	
16	102-403-1A	4	CSHH, .500-13 x .750, GR5	
17	118-5	4	Washer, Lock, .500	
18	102-205-1A	12	CSHH, .375-16 x 1.00, GR5	
19	31878	4	Eye Bolt, .375-16 x 2.50, GR5	
–	80991	8	CSFHS, .500-13 x 2.00, GR5	Not Shown

Stairs Group Illustration

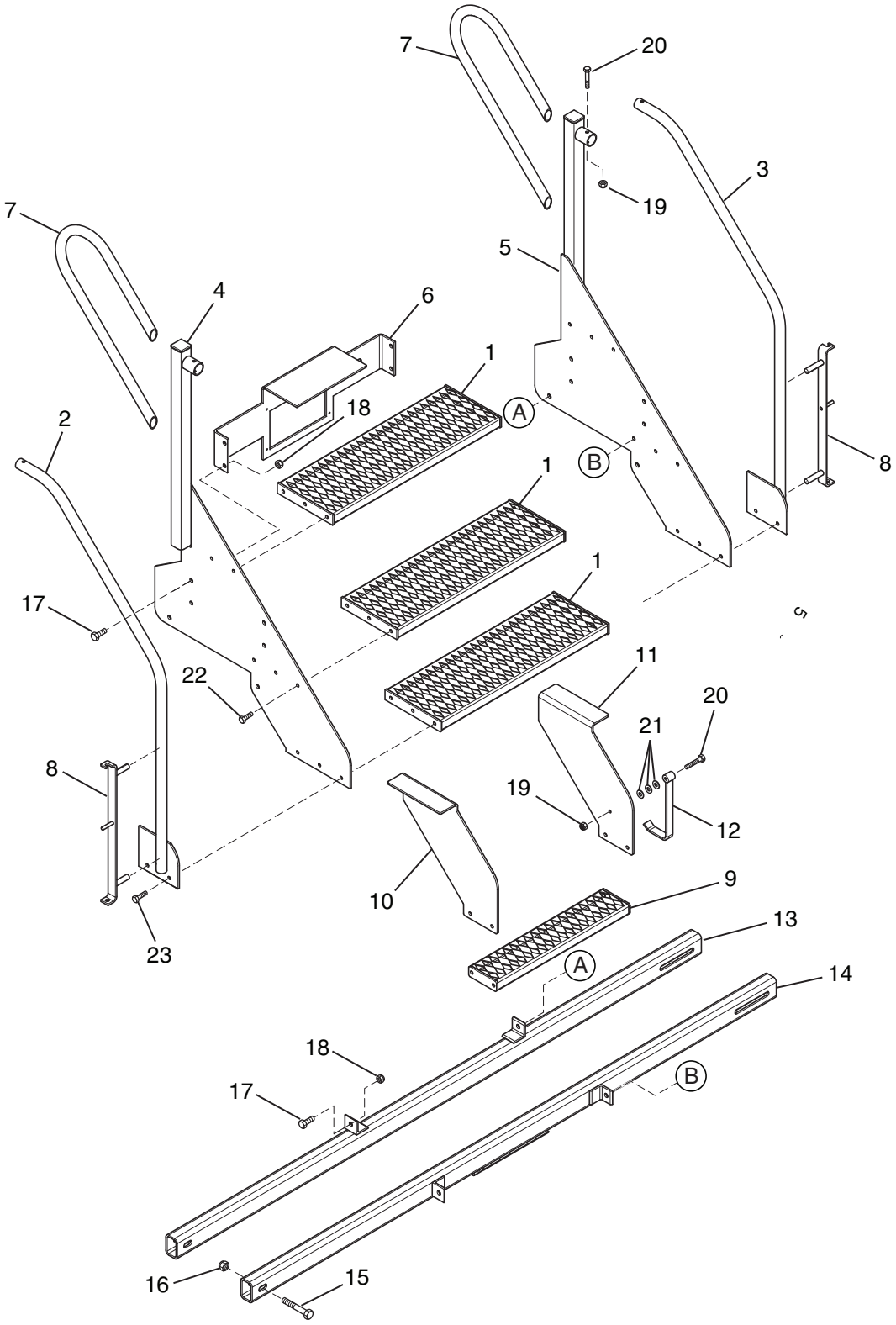


Figure 10-28

Stairs Group Parts List

Item No.	Part Number	Qty.	Description	Remarks
	1000661		Group, Stairs, 9000	
–	1002344	1	Assy, Stairs, 9000	
–	· 980444	1	Assy, Stairway	
1	· · 980452	3	Assy, Stairway Walkboard	
2	· · 984406	1	Assy, Hand Rail, LH	
3	· · 984407	1	Assy, Hand Rail, RH	
4	· · 984408	1	Assy, Side Step, LH	
5	· · 984409	1	Assy, Side Step, RH	
–	· · 980402	2	Tube, Rail Support	Not Shown
6	· 1001907	1	Bracket, Electric Heat Box	
7	· 1000608	2	Tube, Screed Hand Rail, 9000	
8	· 1000812	2	Assy, Depth Stick Bracket	
–	· 985548	1	Bracket, Control Box, Electric Heat	Not Shown
9	· 1002341	1	W/M, Stair Tread, Short	
10	· 1000609	1	Plate, Bottom, Stair Support, LH	
11	· 1000610	1	Plate, Bottom, Stair Support, RH	
12	· 1000933	1	Assembly, Walkboard Lock	
13	· 1002342	1	W/M, Cross Brace, Front	
14	· 1002343	1	W/M, Cross Brace, Back	
15	102-617-1A	4	CSHH, .625-11 x 4.00, GR5	
16	143-7	4	Nut, Lock, .625-11	
17	102-405-1A	8	CSHH, .500-13 x 1.00, GR5	
18	143-5	8	Nut, Lock, .500-13	
19	143-3	3	Nut, Lock, .375-16	
20	102-209-1A	3	CSHH, .375-16 x 2.00, GR5	
21	119-3	3	Washer, Flat, SAE, .375	
22	102-205-1A	18	CSHH, .375-16 x 1.00, GR5	
23	102-206-1A	4	CSHH, .375-16 x 1.25, GR5	

Hydraulic Components Illustration

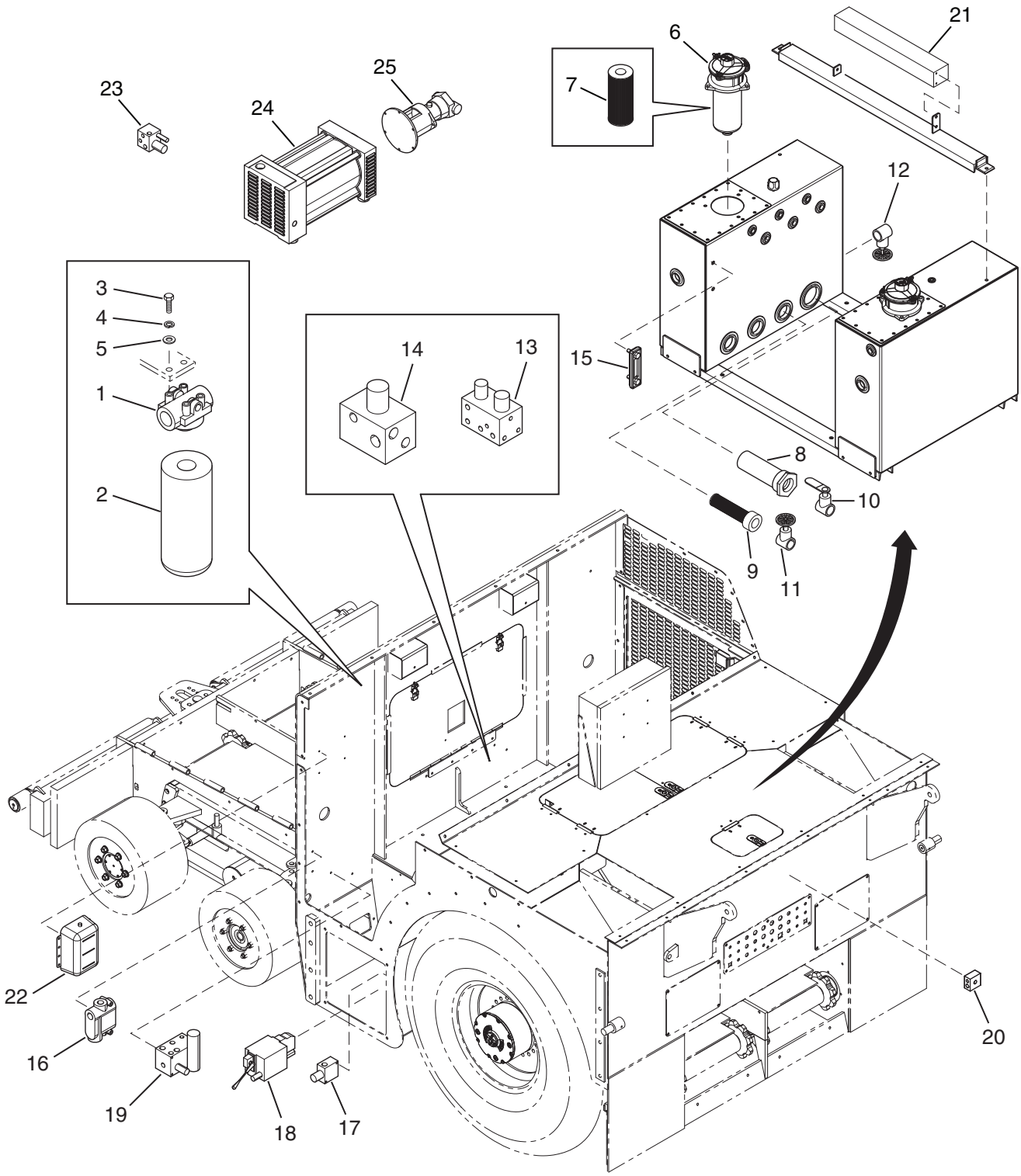


Figure 10-29

Hydraulic Components Parts List

Item No.	Part Number	Qty.	Description	Remarks
			Group, Hydraulic Components	
1	981918	1	Filter Head, Hyd Charge	
2	981917	1	Filter Element, Hyd Charge	
3	102-205-1A	4	CSHH, .375-16 x 1.00, GR5	
4	118-3	4	Washer, Lock, .375	
5	119-3	4	Washer, Flat, SAE, .375	
6	982940	2	Filler/Filter Housing, Hyd	
7	982941	2	Filter Element, Hyd Filler/Filter	
8	72243	2	Strainer, Suction, 100 Mesh	
9	980560	6	Strainer, Suction, 100 Mesh	
10	35354	1	Valve, Ball, 2.00	
11	140640	6	Valve, Gate, 1.25	
12	981940	1	Valve, Gate, 1.50	
13	1000816	1	Manifold, Generator	
14	987221	1	Manifold, 2 Speed/Brake	
15	500070	2	Gauge, Sight Level/Temp	
16	1001685	1	Valve, Flow Divider w/Priority	
17	1001686	1	Valve, Steering Enable	
18	1001687	1	Valve, PVG Steering	
19	1000700	1	Manifold, Front Wheel Assist	
20	960476A	1	Manifold, Charge Filter	
21	989655	1	Manifold, Main, Tractor	
–	983643-01	11	Valve, Directional Solenoid	
22	983273	1	Tank, Coolant Recovery	
23	1002070	1	Manifold, Blower	
24	1000081	1	Generator Assy	Includes Motor
25	1002395	1	Generator Motor	

ALPAHBETICAL PARTS INDEX

Description	Part Number	Figure Number	Item No.	Page Number
Access Door Mount, Paver Side, LH	989521	10-12	9	10-25
Access Door Mount, Paver Side, RH	989522	10-12	–	10-25
Access Door Top Walkboard, LH	989593	10-13	21	10-27
Access Door Top Walkboard, RH	989529	10-13	4	10-27
Access Door, Hood	989583	10-12	6	10-25
Actuator, Linear, 4.00, 12V	· 870302	10-20	20	10-41
Air Cleaner Assy	989953-07	10-10	6	10-21
Alternator, CAT 173HP	989953-01	10-10	7	10-21
Angle, 1.25 x 1.25 x 0.250 x 1.25, Hole	854471	10-13	22	10-27
Angle, Top Walkboard Brace	989546	10-13	15	10-27
Arm, Push Block	980787	10-7	5	10-15
Assembly, Bogie, 9000	989788	10-2		10-5
Assembly, King Pin	· 989689	10-2	18	10-5
Assembly, Walkboard Lock	· 1000933	10-28	12	10-57
Assy, Access Door, 9000	989055	10-6	2	10-13
Assy, Access Door, LH	989523	10-12	11	10-25
Assy, Access Door, RH	989524	10-12	–	10-25
Assy, Adjuster, Element Rack	· 1001941	10-19	14	10-39
Assy, Asphalt Deflector, LH	1000814	10-6	6	10-13
Assy, Asphalt Deflector, RH	1000815	10-6	–	10-13
Assy, Auger End	· 989507	10-16	16	10-33
Assy, Auger, 16", Left Side	1000549	10-16	21	10-33
Assy, Auger, 16", Right Side	1000548	10-16	20	10-33
Assy, Auger, 9000	989508	10-16	–	10-33
Assy, Beacon Light Mount	980376	10-12	1	10-25
Assy, Blower, Exhaust	989082	10-8	26	10-17
Assy, Conveyor Drive Sprocket	989042	10-5	33	10-11
Assy, Conveyor Drive, LH, 9000	989025	10-4	–	10-9
Assy, Conveyor Front Idler Mount	1002801	10-4	7	10-9
Assy, Crank, Endgate	· 1000042	10-27	6	10-55
Assy, Crank, Endgate	· 1000042	10-27	–	10-55
Assy, Crown & Valley Cover	1002317	10-26	–	10-53
Assy, Crown & Valley	1002319	10-24	–	10-49
Assy, Depth Stick Bracket	· 1000812	10-28	8	10-57
Assy, Drive Motor, Auger	· 980143	10-16	–	10-33
Assy, Electrical Enclosure	1000985	10-13	2	10-27
Assy, Endgate, LH, 9000 Screed	1000596	10-27		10-55
Assy, Endgate, RH, 9000 Screed	1000597	10-27	–	10-55
Assy, Flight Screw, 9000	· 1001966	10-17	10	10-35

Description	Part Number	Figure Number	Item No.	Page Number
Assy, Flight Screw, Complete	1002347	10-17	–	10-35
Assy, Flight Screw, RH Thread	981451	10-17	–	10-35
Assy, Frame Cover, LH, 9000	1000606	10-26	–	10-53
Assy, Frame Cover, RH, 9000	1000607	10-26	–	10-53
Assy, Guide, Hopper Wing, LH	1000806	10-11	–	10-23
Assy, Guide, Hopper Wing, RH	1000801	10-11	–	10-23
Assy, Hand Rail, LH	· · 984406	10-28	2	10-57
Assy, Hand Rail, RH	· · 984407	10-28	3	10-57
Assy, Handle, Flight Screw	· 1000996	10-17	8	10-35
Assy, Heat Box, Ext., LH	· 1002334	10-20	–	10-41
Assy, Heat Box, Ext., RH	· 1002329	10-20	–	10-41
Assy, Inside Drive Sprocket, 9000	· 989033	10-4	28	10-9
Assy, Mount, Hyd Manifold Valves	1001645	10-8	7	10-17
Assy, Outer Drive Sprocket, 9000	· 989032	10-5	31	10-11
Assy, Push Block, 9000	989613	10-7		10-15
Assy, Rear Axle Housing, 9000	· 989035	10-4	29	10-9
Assy, Rim & Wheel, Front	· 989255	10-2	2	10-5
Assy, Rim and Tire, Rear	· 989003	10-1	1	10-3
Assy, Roller Extension, Pushbar	980035	10-7	4	10-15
Assy, Roller, Conveyor	851116-1	10-7	7	10-15
Assy, Screed Arm, LH, 9000	1000673	10-17	–	10-35
Assy, Screed Arm, RH, 9000	1000674	10-17	–	10-35
Assy, Screed Base, w/Wear Plate	1000590	10-19		10-39
Assy, Screed Extension, LH, 9000	1000588	10-20		10-41
Assy, Screed Extension, RH, 9000	1000589	10-20	–	10-41
Assy, Screed Vibrator	· 854662	10-23	–	10-47
Assy, Seat Mount, LH	1002799	10-13	20	10-27
Assy, Seat Mount, RH	1002798	10-13	8	10-27
Assy, Seat Slide Base, LH	989551	10-13	17	10-27
Assy, Seat Slide Base, RH	989552	10-13	–	10-27
Assy, Side Step, LH	· · 984408	10-28	4	10-57
Assy, Side Step, RH	· · 984409	10-28	5	10-57
Assy, Side Wing Cylinder Bracket	980157	10-11	8	10-23
Assy, Spindle, Left, 9000	· 989153	10-2	13	10-5
Assy, Spindle, Right, 9000	· 989154	10-2	–	10-5
Assy, Spraydown Pump	984381	10-13	13	10-27
Assy, Sprocket, Drive Motor	989039	10-4	24	10-9
Assy, Sprocket, Outer Shaft	· 1001638	10-16	13	10-33
Assy, Stairs, 9000	1002344	10-28	–	10-57
Assy, Stairway	· 980444	10-28	–	10-57
Assy, Stairway Walkboard	· · 980452	10-28	1	10-57

Description	Part Number	Figure Number	Item No.	Page Number
Assy, Strike Off Adjuster	· 1001680	10-19	–	10-39
Assy, Tank, Citrus, 9000	989548	10-8	1	10-17
Assy, Tank, Fuel, Auxiliary, 9000	989541	10-8	4	10-17
Assy, Tank, Fuel, Main (Diesel), 9000	989540	10-8	2	10-17
Assy, Tank, Hyd, LH, 9000	989074	10-8	6	10-17
Assy, Tank, Hyd, RH, 9000	989073	10-8	5	10-17
Assy, Tilt Adjust, Ext., 9000	· 1000458	10-20	22	10-41
Assy, Tilt Plate, Extension, LH	1000594	10-22	–	10-45
Assy, Tilt Plate, Extension, RH	1002338	10-22	–	10-45
Assy, Toe Point, LH, 9000	989588	10-17	–	10-35
Assy, Toe Point, RH, 9000	989591	10-17	–	10-35
Assy, Vibrator, Screed	1000605	10-23	2	10-47
Assy, Walkboard	1000470	10-24	14	10-49
Assy, Wear Plate w/Rod Adjuster	· 1002073	10-19	–	10-39
Ball Joint, 1/2 Female	· 1000945	10-20	17	10-41
Ball Joint, 1/2 Male	· 1000946	10-20	18	10-41
Ball Joint, 3/4 Male	· 1000947	10-20	21	10-41
Ball Joint, 3/4" Male Shank	· 989692	10-2	23	10-5
Bar, Bottom Rail, Extension	989654	10-22	8	10-45
Bar, C&V Gauge	1001882	10-25	2	10-51
Bar, C&V Gauge Mount w/Hole	1001879	10-25	1	10-51
Bar, C&V Gauge Mount w/Slot	1001880	10-25	4	10-51
Bar, Clamp, Toe Point	· 989586	10-17	15	10-35
Bar, Clamp, Toe Point	· 989586	10-17	–	10-35
Bar, Guide	· 1000803	10-11	4	10-23
Bar, Guide	· 1000803	10-11	4	10-23
Bar, Pivot	980232	10-23	3	10-47
Bar, Rubber Clamp, Auger	1001540	10-16	23	10-33
Bar, Rubber Mount, Crown & Valley	· 1000789	10-26	2	10-53
Bar, Rubber Mount, Front	989579	10-11	14	10-23
Bar, Screed Arm Stop	· 980439	10-17	4	10-35
Bar, Screed Arm Stop	· 980439	10-17	–	10-35
Bar, Spacer, Toe Point	· 989587	10-17	14	10-35
Bar, Spacer, Toe Point	· 989587	10-17	–	10-35
Bar, Tie Rod	· 989680	10-2	22	10-5
Bar, Top Rail, Extension	989653	10-22	7	10-45
Bar, w/Holes, Vertical Lift Gauge	· 1000650	10-20	1	10-41
Battery, 12V, 1000 CCA	1001847	10-10	17	10-21
Bearing	85130	10-4	9	10-9
Bearing Cone	· 610210	10-2	9	10-5
Bearing Cone	· 210180A	10-2	12	10-5

Description	Part Number	Figure Number	Item No.	Page Number
Bearing Cup	· 610200	10-2	10	10-5
Bearing Cup	· 210190A	10-2	11	10-5
Bearing, Auger, Inner	· 989105	10-16	14	10-33
Bearing, Auger, Outer	· · 989106	10-16	19	10-33
Bearing, Insert, 1.50	850130	10-7	8	10-15
Bearing, Pilot, CAT, Tier 3	989953-11	10-9	23	10-19
Block, Slide	· 989948	10-22	6	10-45
Block, Slide	· 989948	10-22	–	10-45
Box, Screed Control, 9000	1002200	10-25	7	10-51
Bracket, Adjuster, Strike Off	· · 989840	10-19	2	10-39
Bracket, Control Box, Electric Heat	· 985548	10-28	–	10-57
Bracket, Electric Heat Box	· 1001907	10-28	6	10-57
Bracket, Guide, LH	· 1000805	10-11	3	10-23
Bracket, Guide, RH	· 1000804	10-11	5	10-23
Bracket, Rubber Wipe Mount, 9000	· 1000483	10-20	8	10-41
Bracket, Water / Fuel Pump Mount	480260	10-13	14	10-27
Breather Cap	620050	10-8	9	10-17
Bushing, 2.5 OD x 2.0 ID x 1.5 LG	· 210040	10-2	14	10-5
Bushing, 3" ID	· 989916	10-22	–	10-45
Bushing, Fiber, 3" ID	· 989916	10-22	5	10-45
Bushing, Fiber, 4" ID X 2.50	· 989699	10.3	31	10-7
Bushing, Floating Post, Center	· 1000038	10-27	7	10-55
Bushing, Floating Post, Center	· 1000038	10-27	–	10-55
Bushing, Screed Pivot	1001756	10-23	12	10-47
Bushing, Steering Linkage	· 989140	10-2	20	10-5
Cap, Fuel Tank (Diesel)	982033	10-8	3	10-17
Cap, Wheel, Steering	· 981456	10-15	–	10-31
Chain Guard, Front, LH, 9000	989070	10-4	1	10-9
Chain Guard, Front, RH, 9000	989071	10-4	2	10-9
Chain Guard, Rear, 9000	989072	10-4	3	10-9
Chain, 80, Auger, 9000	· 1001712	10-16	8	10-33
Chain, C&V, #50, Crown to Crown	· 1001854	10-24	2	10-49
Chain, C&V, #50, Crown to Motor	· 1001853	10-24	4	10-49
Chain, Conveyor Drag, w/Bars	989198	10-4	4	10-9
Chain, Conveyor Drive	1000142	10-5	34	10-11
Channel, Hyd Tank Mount	989531	10-8	10	10-17
Citrus Cover	980285	10-12	3	10-25
Clamp, Air Cleaner/Muffler	983544	10-10	26	10-21
Clamp, Hose, #32	33170	10-9	3	10-19
Clamp, Muffler, 3.00	161250	10-10	24	10-21
Clamp, T-bolt, 2.00 Nominal	38376	10-10	15	10-21

Description	Part Number	Figure Number	Item No.	Page Number
Clamp, T-bolt, 2.25 Nominal	38268	10-10	12	10-21
Clamp, T-bolt, 3.00 Nominal	36600	10-10	13	10-21
Collar, Locking	· 6436K27	10-24	5	10-49
Conn, 02-Pin, Soc, DT04-2P	· · 983198	10-19	–	10-39
Conn, Wedge, Recp, 2P, Deutsch	· · 983209	10-19	–	10-39
Control Box and Gauges		10-25		10-51
Cover Plate, LH, Extension, 9000	· 1000447	10-20	10	10-41
Cover Plate, RH, Extension, 9000	· 1000463	10-20	–	10-41
Cover, Access Hole, Extension, 9000	· 1000442	10-20	6	10-41
Cover, Chain, Auger, 9000	989506	10-16	3	10-33
Cover, Chain, Auger, Top, 9000	980336	10-16	4	10-33
Cover, Heat Plate, Top Access, Ext.	· · 989921	10-20	11	10-41
Cover, Heat Plate, Top Access, Ext.	· · 989921	10-20	–	10-41
Cover, Hub	· 989162	10-2	3	10-5
Cover, Hyd, Access	980284	10-6	1	10-13
Cover, Shaft, Bogie	· 1001681	10.3	30	10-7
CPLG Half, 3 Jaw, .625	· · 280030	10-23	–	10-47
CPLG Half, 3 Jaw, 1"	· · 880030	10-23	–	10-47
CSFHS, .250-20 x .625	985246	10.3	33	10-7
CSFHS, .500-13 x 0.75, GR5	1002814	10-27	11	10-55
CSFHS, .500-13 x 1.50	80420	10.3	45	10-7
CSFHS, .500-13 x 1.50	80420	10-5	37	10-11
CSFHS, .500-13 x 2.00, GR5	80991	10-27	–	10-55
CSFHS, .500-20 x .500	1002807	10-12	17	10-25
CSHH, .250-20 x .750, GR5	102-3-1A	10-8	23	10-17
CSHH, .250-20 x .750, GR5	102-3-1A	10-21	39	10-43
CSHH, .250-20 x .750, GR5	102-3-1A	10-25	11	10-51
CSHH, .250-20 x 1.00, GR5	102-5-1A	10-12	25	10-25
CSHH, .312-18 x .750, GR5	102-103-1A	10-19	28	10-39
CSHH, .312-18 x 1.00, GR5	102-105-1A	10-6	11	10-13
CSHH, .312-18 x 1.00, GR5	102-105-1A	10-12	13	10-25
CSHH, .312-18 x 1.00, GR5	102-105-1A	10-14	34	10-29
CSHH, .375-16 x .750, GR5	102-203-1A	10-11	35	10-23
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-8	15	10-17
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-12	21	10-25
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-13	23	10-27
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-19	25	10-39
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-21	38	10-43
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-24	17	10-49
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-26	15	10-53
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-27	18	10-55

Description	Part Number	Figure Number	Item No.	Page Number
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-28	22	10-57
CSHH, .375-16 x 1.00, GR5	102-205-1A	10-29	3	10-59
CSHH, .375-16 x 1.25, GR5	102-206-1A	10-6	16	10-13
CSHH, .375-16 x 1.25, GR5	102-206-1A	10-8	20	10-17
CSHH, .375-16 x 1.25, GR5	102-206-1A	10-28	23	10-57
CSHH, .375-16 x 2.00, GR5	102-209-1A	10-14	28	10-29
CSHH, .375-16 x 2.00, GR5	102-209-1A	10-28	20	10-57
CSHH, .375-16 x 9.50	80393	10-10	18	10-21
CSHH, .375-24 x 1.00, GR8	81068	10-9	29	10-19
CSHH, .437-14 x 1.00, GR5	102-305-1A	10-25	16	10-51
CSHH, .437-14 x 1.50, GR5	102-307-1A	10-11	26	10-23
CSHH, .437-14 x 2.25, GR5	102-310-1A	10-18	32	10-37
CSHH, .437-14 x 2.50, GR5	102-311-1A	10-20	24	10-41
CSHH, .437-14 x 2.75, GR5	102-312-1A	10-18	31	10-37
CSHH, .500-13 x .750, GR5	102-403-1A	10-6	14	10-13
CSHH, .500-13 x .750, GR5	102-403-1A	10-27	16	10-55
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-5	40	10-11
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-7	10	10-15
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-11	31	10-23
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-12	20	10-25
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-16	36	10-33
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-19	26	10-39
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-22	11	10-45
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-25	19	10-51
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-26	11	10-53
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-27	13	10-55
CSHH, .500-13 x 1.00, GR5	102-405-1A	10-28	17	10-57
CSHH, .500-13 x 1.00, GR8	81002	10-23	10	10-47
CSHH, .500-13 x 1.25, GR5	102-406-1A	10-9	19	10-19
CSHH, .500-13 x 1.25, GR5	102-406-1A	10-11	22	10-23
CSHH, .500-13 x 1.25, GR5	102-406-1A	10-14	38	10-29
CSHH, .500-13 x 1.50, GR5	102-407-1A	10-7	11	10-15
CSHH, .500-13 x 1.50, GR5	102-407-1A	10-24	23	10-49
CSHH, .500-13 x 1.50, GR5	102-407-1A	10-26	12	10-53
CSHH, .500-13 x 1.50, GR8	312160	10-9	28	10-19
CSHH, .500-13 x 1.75, GR5	102-408-1A	10-21	41	10-43
CSHH, .500-13 x 1.75, GR5	102-408-1A	10-24	20	10-49
CSHH, .500-13 x 2.00, GR5	102-409-1A	10-5	42	10-11
CSHH, .500-13 x 2.00, GR5	102-409-1A	10-16	28	10-33
CSHH, .500-13 x 2.00, GR5	102-409-1A	10-21	31	10-43
CSHH, .500-13 x 2.00, GR5	102-409-1A	10-24	18	10-49

Description	Part Number	Figure Number	Item No.	Page Number
CSHH, .500-13 x 2.50, GR5	102-411-1A	10-21	40	10-43
CSHH, .500-13 x 2.75	102-412-1A	10-8	11	10-17
CSHH, .500-13 x 3.00, GR5	· · 102-413-1	10-19	15	10-39
CSHH, .500-13 x 5.00, GR5	102-421-1A	10-16	30	10-33
CSHH, .500-20 x 1.00, GR5	100-405-1A	10-22	9	10-45
CSHH, .500-20 x 1.25	100-406-1A	10-4	27	10-9
CSHH, .500-20 x 1.50, GR5	100-407-1A	10-22	16	10-45
CSHH, .500-20 x 1.50, GR8	1002811	10-23	9	10-47
CSHH, .625-11 x 1.00	989685	10.3	38	10-7
CSHH, .625-11 x 1.25	102-606-1A	10.3	43	10-7
CSHH, .625-11 x 1.25	102-606-1A	10-4	11	10-9
CSHH, .625-11 x 1.50, GR5	102-607-1A	10-5	39	10-11
CSHH, .625-11 x 1.50, GR5	102-607-1A	10-11	36	10-23
CSHH, .625-11 x 1.50, GR5	102-607-1A	10-16	26	10-33
CSHH, .625-11 x 1.75	102-608-1A	10.3	47	10-7
CSHH, .625-11 x 1.75	102-608-1A	10-5	38	10-11
CSHH, .625-11 x 2.00, GR5	102-609-1A	10-21	44	10-43
CSHH, .625-11 x 2.00, GR5	· · 102-609-1A	10-23	–	10-47
CSHH, .625-11 x 4.00, GR5	102-617-1A	10-28	15	10-57
CSHH, .625-18 x 2.00, GR5	71703	10-16	27	10-33
CSHH, .625-18 x 2.00, GR5	71703	10-21	49	10-43
CSHH, .750-10 x 1.50	102-707-1A	10-7	13	10-15
CSHH, .750-10 x 3.00, GR5	102-713-1A	10-21	30	10-43
CSHH, .750-10 x 3.25, GR8	81027	10-24	25	10-49
CSHH, .750-10 x 4.00, GR5	102-717-1A	10-18	23	10-37
CSHH, .750-16 x 1.25	100-706-1A	10-5	36	10-11
CSHH, .750-16 x 1.50, GR5	1002809	10-23	14	10-47
CSHH, .750-16 x 2.00, GR5	80460	10-21	51	10-43
CSHH, #10-24 x 1.00	–	10-15	13	10-31
CSHH, 1.00-14 x 2.50	100-911-1A	10-11	20	10-23
CSHH, 1.00-14 x 3.00, GR5	100-913-1A	10-17	21	10-35
CSHH, 1.00-14 x 3.50, GR5	100-915-1A	10-17	19	10-35
CSHH, 1.00-14 x 3.50, GR5	100-915-1A	10-18	25	10-37
CSHH, 1.25-7 x 4.50, GR5	130041	10-18	26	10-37
CSHH, M16-2.0 x 40	81031	10-9	16	10-19
CSSH, .437-20 x 1.25, GR5	1002810	10-22	14	10-45
CSSH, .437-20 x 1.50, GR5	1002812	10-22	15	10-45
CSSH, .500-13 x 1.125, GR5	80488	10-16	33	10-33
CSSH, .500-13 x 2.00, GR5	1000938	10-16	35	10-33
CSSH, .500-13 x 3.25, GR5	81030	10-16	34	10-33
CSSH, .625-11 x 3.50, GR8	388069	10-16	32	10-33

Description	Part Number	Figure Number	Item No.	Page Number
CSSH, M20-2.5 x 50mm	1002802	10-1	4	10-3
Cup Holder, LH	1002546	10-15	11	10-31
Cup Holder, RH	1002547	10-15	–	10-31
CYL, HYD, 2.00 x 7.00 x 1.00 Rod	· 981503	10-17	13	10-35
CYL, HYD, 2.00 x 7.00 x 1.00 Rod	· 981503	10-17	–	10-35
Cylinder, Hyd, 2.00 x 12.00 x 1.00 Rod	851436	10-11	9	10-23
Cylinder, Hyd, 2.00 x 7.25 x 1.00 Rod	1001126	10-11	7	10-23
Cylinder, Hydraulic	980420	10-23	6	10-47
Cylinder, Primary, Extension	· 1000056	10-20	15	10-41
Cylinder, Screed Lift	1000670	10-6	5	10-13
Cylinder, Seat Slide, 9000	· 989567	10-13	19	10-27
Cylinder, Seat Slide, 9000	· 989567	10-13	–	10-27
Cylinder, Secondary, Extension	1000058	10-22	2	10-45
Cylinder, Steer, w/Feedback	· 989099	10-2	21	10-5
Display, Color, LH Pedestal	1000999	10-15	3	10-31
Display, Color, RH Pedestal	1000643	10-15	–	10-31
Door, Fuel Access, 9000	989592	10-13	11	10-27
Drive Plate, CAT, Tier 3	989953-12	10-9	24	10-19
Drive Shaft, Conveyor, 9000	· 989026	10-4	30	10-9
Element, Heater, Screed, 46"	· · 985118	10-19	6	10-39
Elements, Heater, Screed, 46"	· 987886	10-19	–	10-39
Engine, CAT, 173HP, Tier 3, 9000	989953	10-9	7	10-19
Eye Bolt, .375-16 x 2.50, GR5	31878	10-27	19	10-55
Fan Belt	988536-05	10-10	9	10-21
Fan Blade	980760	10-8	19	10-17
Fan, 26", CAT Tier 3, 9000	989088	10-9	6	10-19
Filler Cap, Hyd Oil Tank	982940	10-8	8	10-17
Filler/Filter Housing, Hyd	982940	10-29	6	10-59
Filter Element, Air, Primary	989953-05	10-10	4	10-21
Filter Element, Air, Safety	989953-06	10-10	5	10-21
Filter Element, Engine Oil	988676-02	10-10	3	10-21
Filter Element, Fuel, Primary	988676-04	10-10	2	10-21
Filter Element, Fuel, Secondary	988676-03	10-10	1	10-21
Filter Element, Hyd Charge	981917	10-29	2	10-59
Filter Element, Hyd Filler/Filter	982941	10-29	7	10-59
Filter Head, Hyd Charge	981918	10-29	1	10-59
Fitting, Lube	140610	10.3	39	10-7
Fitting, Lube	985094	10.3	41	10-7
Flange, Adapter, Exhst, 3 Bolt	1002800	10-10	28	10-21
Gasket, SAE, B, 2 Bolt	700480	10-9	10	10-19
Gauge, Sight Level/Temp	500070	10-29	15	10-59

Description	Part Number	Figure Number	Item No.	Page Number
Generator Assy	1000081	10-29	24	10-59
Generator Motor	1002395	10-29	25	10-59
Group, Auger	989790	10-16		10-33
Group, Controls	989794	10-15		10-31
Group, Conveyor	989789	10-4		10-9
Group, Crown & Valley / Walkboard	1000845	10-24		10-49
Group, Drive, 9000	989787	10-1		10-3
Group, Engine, 9000	989785	10-9		10-19
Group, Hopper, 9000	989791	10-11		10-23
Group, Hydraulic Components		10-29		10-59
Group, Jointer, 9000	10000657	10-27		10-55
Group, Miscellaneous		10-6		10-13
Group, Operator Platform	989614	10-13		10-27
Group, Panel & Covers, 9000	989793	10-12		10-25
Group, Screed Arms, 9000	1000659	10-17		10-35
Group, Stairs, 9000	1000661	10-28		10-57
Group, Tanks, 9000	989792	10-8		10-17
Group, Walkboard	1000658	10-24	–	10-49
Guard, Chain, Front	989580	10-11	12	10-23
Handle & Nozzle, Spraydown	920220A	10-13	–	10-27
Handle & Nozzle, Spraydown	920220	10-13	–	10-27
Hex, Thin, 4 Slot	· 1001683	10-2	6	10-5
Hinge	980316	10-12	5	10-25
Hinge	989316	10-13	5	10-27
Hold Down, Battery	1000180	10-10	16	10-21
Hold Down, Push Block	989675	10-7	2	10-15
Hood Side Grating Plate, 9000	989539	10-12	12	10-25
Hood, 9000	989527	10-12	4	10-25
Hose, Radiator, Lower	1001932	10-9	5	10-19
Hose, Radiator, Upper	1001933	10-9	4	10-19
Hose, To Spraydown Handle	920224	10-13	–	10-27
Hub, Wheel	· 989165	10-2	4	10-5
Insert, 3-Jaw Coupling	· · 280040	10-23	–	10-47
Insulation, 0.25 x 1 x 12", Adhesive	· · 986522	10-19	–	10-39
Joystick, Propel	1000636	10-15	12	10-31
Keeper, Bushing	· 989169	10-2	28	10-5
Key	· 620220	10-2	7	10-5
Key Switch	39146-14	10-15	8	10-31
Keypad, Beacon, Screed	1000638	10-15	2	10-31
Keypad, Horn, Console	1000639	10-15	10	10-31
Keypad, Lights, Console	1000640	10-15	9	10-31

Description	Part Number	Figure Number	Item No.	Page Number
Keypad, Node 1, Right Side	1000773	10-25	6	10-51
Keypad, Node 2, Right Side Horn	1000774	10-25	5	10-51
Keypad, Node 3, Left Side	1000775	10-25	10	10-51
Keypad, Node 4, Left Side Horn	1000776	10-25	9	10-51
Knob, Revolving Ball, M12 x 1.75	· · 981574	10-17	9	10-35
Latch, Asphalt Deflector	985549	10-6	7	10-13
Latch, Walkboard	985549	10-24	15	10-49
Lever Latch	980460	10-12	7	10-25
Lever Latch	980460	10-13	3	10-27
Lever Latch	· 980460	10-26	4	10-53
Lever Latch	· 980460	10-26	4	10-53
Light, Halogen, Trap, 55 Watt	160040A	10-14	33	10-29
Manifold, 2 Speed/Brake	987221	10-29	14	10-59
Manifold, Blower	1002070	10-29	23	10-59
Manifold, Charge Filter	960476A	10-29	20	10-59
Manifold, Front Wheel Assist	1000700	10-29	19	10-59
Manifold, Generator	1000816	10-29	13	10-59
Manifold, Main, Screed	1000826	10-19	29	10-39
Manifold, Main, Tractor	989655	10-29	21	10-59
Manifold, Proportional, Conveyor	1000825	10-16	24	10-33
Motor, Drive, 9000	· 989183	10-1	3	10-3
Motor, Electric	986640	10-24	13	10-49
Motor, Hyd, Conveyor Drive	986600	10-4	18	10-9
Motor, Hyd, Exh Fan	980590	10-8	17	10-17
Motor, Hyd, Gear, 1.17 CIR, “A”	· · 983405	10-23	–	10-47
Motor, Hyd., Front Assist, 9000	· 989136	10.3	29	10-7
Motor, Hydraulic, Auger, 8816	· · 980230	10-16	5	10-33
Mount, Auger Brace End, 9000	· · 989505	10-16	17	10-33
Mount, Engine, LH, Front, CAT, Tier 3	1002751	10-9	11	10-19
Mount, Engine, LH, Rear, CAT, Tier 3	1002748	10-9	13	10-19
Mount, Engine, RH, Front, CAT, Tier 3	1002750	10-9	12	10-19
Mount, Engine, RH, Rear, CAT, Tier 3	1002749	10-9	14	10-19
Mount, Frt Wheel Drive	989175	10.3	46	10-7
Mount, Top Brace, Extension	989857	10-22	1	10-45
Mounting Pad, Hatz Diesel Engine	320140-1	10-9	15	10-19
Muffler	750043	10-10	22	10-21
Nozzle, Spraydown Handle	901210A	10-13	–	10-27
Nut, Flexloc, 1.00-14	80377	10-18	29	10-37
Nut, Hex, .250-20	–	10-25	21	10-51
Nut, Hex, .312-18	116-2	10-14	36	10-29
Nut, Hex, .375-16	116-3	10-10	21	10-21

Description	Part Number	Figure Number	Item No.	Page Number
Nut, Hex, .375-16	116-3	10-11	32	10-23
Nut, Hex, .375-16	116-3	10-13	27	10-27
Nut, Hex, .375-24	115-3	10-25	15	10-51
Nut, Hex, .500-13	116-5	10-8	14	10-17
Nut, Hex, .500-13	116-5	10-11	25	10-23
Nut, Hex, .500-13	116-5	10-19	18	10-39
Nut, Hex, Jam, .500-13	116-5-1	10-19	19	10-39
Nut, Hex, Jam, .500-20	115-5-1	10-21	32	10-43
Nut, Hex, Jam, .750-10	116-8-1	10-4	15	10-9
Nut, Hex, Jam, .750-10	115-8-1	10-21	28	10-43
Nut, Jam, .750-16	80096	10.3	34	10-7
Nut, Lock, .375-16	143-3	10-12	23	10-25
Nut, Lock, .375-16	143-3	10-13	25	10-27
Nut, Lock, .375-16	143-3	10-27	10	10-55
Nut, Lock, .375-16	143-3	10-28	19	10-57
Nut, Lock, .437-14	143-4	10-18	30	10-37
Nut, Lock, .437-14	143-4	10-21	27	10-43
Nut, Lock, .437-14	143-4	10-25	20	10-51
Nut, Lock, .500-13	143-5	10-5	43	10-11
Nut, Lock, .500-13	143-5	10-7	12	10-15
Nut, Lock, .500-13	143-5	10-11	29	10-23
Nut, Lock, .500-13	143-5	10-19	21	10-39
Nut, Lock, .500-13	143-5	10-21	33	10-43
Nut, Lock, .500-13	143-5	10-24	19	10-49
Nut, Lock, .500-13	143-5	10-27	12	10-55
Nut, Lock, .500-13	143-5	10-28	18	10-57
Nut, Lock, .625-11	143-7	10-11	30	10-23
Nut, Lock, .625-11	143-7	10-16	31	10-33
Nut, Lock, .625-11	143-7	10-21	47	10-43
Nut, Lock, .625-11	143-7	10-24	27	10-49
Nut, Lock, .625-11	143-7	10-28	16	10-57
Nut, Lock, .750-10	123-8	10-4	21	10-9
Nut, Lock, .750-10	143-10	10-18	24	10-37
Nut, Lock, .750-10	143-8	10-21	29	10-43
Nut, Lock, .750-10	143-8	10-24	24	10-49
Nut, Lock, #10-24	–	10-15	15	10-31
Nut, Lock, 1.00-14	1002464	10-18	22	10-37
Nut, Lock, 1.25-7	143-12	10-18	28	10-37
Nut, Lug, 55mm	· 989924	10-2	1	10-5
Nylon Guide	1002315	10-12	16	10-25
O-ring	P77484	10.3	40	10-7

Description	Part Number	Figure Number	Item No.	Page Number
Pedestal, 9000	1001053	10-15	7	10-31
Pedestal, Left	1000777	10-15		10-31
Pedestal, Right Not Shown	1000778	10-15		10-31
Pin, Clevis	240030	10-11	17	10-23
Pin, Clevis	240030	10-14	32	10-29
Pin, Clevis	240030	10-17	17	10-35
Pin, Clevis	240030	10-21	36	10-43
Pin, Cotter	81019	10-11	16	10-23
Pin, Cotter	81019	10-14	31	10-29
Pin, Cotter	81019	10-17	16	10-35
Pin, Cotter	81019	10-21	35	10-43
Pin, Pivot, 9000	1002737	10-7	1	10-15
Pipe, 3.00 OD x 3.00	1002806	10-10	25	10-21
Pipe, Chain Guard, PVC	· 852428	10-27	3	10-55
Pipe, Chain Guard, PVC	· 852428	10-27	–	10-55
Pipe, Exh Turnout, 3.00	160010	10-10	27	10-21
Pipe, Exh, Flexible, 3.00 x 12.00	160240-12	10-10	23	10-21
Pipe, Intercooler	989953-10	10-10	10	10-21
PL., Bottom Grate, Access Panel	989538	10-12	10	10-25
Plate, Access Door, Back	989516	10-6	3	10-13
Plate, Back Lower Cover	1000207	10-26	8	10-53
Plate, Bottom, Stair Support, LH	· 1000609	10-28	10	10-57
Plate, Bottom, Stair Support, RH	· 1000610	10-28	11	10-57
Plate, Bulkhead, Extension, 9000	· 1000446	10-20	3	10-41
Plate, Center Mount, C&V	· 1000841	10-24	8	10-49
Plate, Control Panel	1000485	10-15	4	10-31
Plate, Conveyor Mount, w/Brg, 9000	851483	10-5	32	10-11
Plate, Conveyor, Mount Slide, 9000	989060	10-4	20	10-9
Plate, Coveyor, Bed, Front	1002674	10-4	5	10-9
Plate, Coveyor, Bed, Rear	1002675	10-4	6	10-9
Plate, Cyl Mtg, Toe Point	· 989585	10-17	12	10-35
Plate, Cyl Mtg, Toe Point	· 989585	10-17	–	10-35
Plate, Cylinder Tilt Lock	989903	10-23	7	10-47
Plate, End Cover	· 989828	10-19	7	10-39
Plate, Endgate, Wear	· 1000041	10-27	1	10-55
Plate, Endgate, Wear	· 1000041	10-27	–	10-55
Plate, Extension, Spacer	· 1000030	10-27	8	10-55
Plate, Extension, Spacer	· 1000030	10-27	–	10-55
Plate, Fan Cover	980705	10-8	18	10-17
Plate, Frame Cover	· 989900	10-26	6	10-53
Plate, Guide Stop Clamp, Front	· 989145	10-2	16	10-5

Description	Part Number	Figure Number	Item No.	Page Number
Plate, Guide Stop Clamp, Rear	· 989146	10-2	26	10-5
Plate, Motor Mount	· · 980127	10-16	6	10-33
Plate, Pin Retainer, Torque Hub	· 1001874	10-1	–	10-3
Plate, Pivot Cover	980254	10-23	4	10-47
Plate, Rear Bulkhead	989576	10-6	4	10-13
Plate, Rear Top Walkboard	989566	10-13	12	10-27
Plate, Screed Wear	· · 989650	10-19	8	10-39
Plate, Side Wing Rubber Shield	980332	10-11	1	10-23
Plate, Slide Plate Clamp	989502	10-16	1	10-33
Plate, Strike Off, LH	· 989839	10-19	3	10-39
Plate, Strike Off, RH	· 989872	10-19	4	10-39
Plate, Strikeoff, Extension, 9000	· 1000443	10-20	5	10-41
Plate, Tilt Extension	989912	10-23	1	10-47
Plate, Top Walkboard, Back	989528	10-13	7	10-27
Plate, Top Walkboard, Front	1001487	10-13	6	10-27
Pump Drive, Triple	988968	10-9	22	10-19
Pump, Aux, Blower/Vibrator	1000694	10-9	9	10-19
Pump, Aux, Generator	989184-02	10-9	26	10-19
Pump, Aux, Valves	989184-01	10-9	27	10-19
Pump, Tandem, Propel	989185	10-9	25	10-19
Radiator Cooling Package, 9000	989086	10-9	1	10-19
Reel, w/Hose, Spraydown	920200	10-13	9	10-27
RND, Toe Point Gauge, LH	1001859	10-17	–	10-35
RND, Toe Point Gauge, RH	1001858	10-17	–	10-35
Rod, C&V Gauge	1001881	10-25	3	10-51
Rod, Hopper Wing	989067	10-11	10	10-23
Rod, Pipe Hinge, Inner, Ext., 9000	· 1000022	10-20	13	10-41
Rod, Seat Slide, 9000	· 989556	10-13	18	10-27
Rod, Seat Slide, 9000	· 989556	10-13	–	10-27
Rod, Thrd, Adjuster, Strike Off	· · 989845	10-19	1	10-39
Rod, Thrd, Adjuster, Strike Plate	· · 989838	10-19	10	10-39
Rod, Thrd, Adjuster, Wear Plate	· · 989829	10-19	9	10-39
Rod, Thrd, Vertical Lift Gauge	· 1001910	10-20	23	10-41
Rod, Threaded, Thickness Gauge	1000848	10-25	8	10-51
Roller, Conveyor Chain Idler (w/bearing)	850162	10-4	17	10-9
Rubber Hopper Wing	989577	10-11	2	10-23
Rubber Wipe, Screed Cylinder, 9000	· 1000482	10-20	9	10-41
Rubber, Crown & Valley Cover	· 1000790	10-26	3	10-53
Rubber, Hopper, Front	989578	10-11	13	10-23
Rubber, Splash, Auger	1000966	10-16	22	10-33
Screed Covers - 9000		10-26		10-53

Description	Part Number	Figure Number	Item No.	Page Number
Screw, Conveyor Ajusting	989030	10-4	14	10-9
Screw, Wing, .375-16 x 1.00	920070	10-6	15	10-13
Seal	210240A	10.3	32	10-7
Seal	989698	10.3	44	10-7
Seat, Trimline, w/Suspension	989575	10-13	1	10-27
Set Screw, .375-24 x 0.75	1002808	10-22	10	10-45
Shaft, 1.50" Screed Stop	1000791	10-6	8	10-13
Shaft, Adjuster, Wear Plate Back	· 1000026	10-19	12	10-39
Shaft, Auger Bearing Mount	· · 989455	10-16	18	10-33
Shaft, Auger, Inner	· 989452	10-16	11	10-33
Shaft, Auger, Outer	· 1001761	10-16	12	10-33
Shaft, C&V Screw, LH	· 1000843	10-24	1	10-49
Shaft, C&V Screw, RH	· 1000844	10-24	7	10-49
Shaft, Conveyor Idler	989022	10-4	10	10-9
Shaft, Cylinder Mount	989985	10-23	5	10-47
Shaft, Roller, Push Block	989674	10-7	6	10-15
Shaft, Screed Extension	· 989651	10-20	2	10-41
Shaft, Thrd, Adjuster, Wear Plate	· 1000027	10-19	11	10-39
Shim, Bogie, Front	· 1000491	10-2	17	10-5
Shim, Bogie, Rear	· 1000490	10-2	25	10-5
Shoulder Bolt, .500 x .750	1002804	10-4	23	10-9
Shoulder Bolt, .625-11 x 3.00	1002813	10-24	26	10-49
Shoulder Bolt, .750 x 1.50	989695	10.3	36	10-7
Shoulder Bolt, .750 x 2.00	1002803	10.3	35	10-7
Shoulder Bolt, 1.00 x 3.00	989696	10.3	37	10-7
Shroud, Radiator	· 989086-02	10-9	2	10-19
Slide, Plastic, Auger	989503	10-16	2	10-33
Slope & Vibrator Screed Extension		10-22		10-45
Slope and Vibrator, Sheet 2 of 2		10-23		10-47
Snap Ring	850040	10-4	16	10-9
Spacer Plate	· 989600	10-17	7	10-35
Spacer, Fan	1002805	10-9	8	10-19
Spring, Comp	· 930029	10-27	2	10-55
Spring, Comp	· 930029	10-27	–	10-55
Spring, Element Rack	· 1000982	10-19	13	10-39
Sprocket, #50, Roller Chain	· 1000799	10-24	12	10-49
Sprocket, Conveyor Front Idler	981145	10-4	8	10-9
Sprocket, Drive Motor, Auger	· · 980188	10-16	7	10-33
Sprocket, Type "A", 34T X 7.12" OD	· 1001695	10-24	11	10-49
Starter Motor	989953-08	10-10	8	10-21
Steering Unit, 9000	1001055	10-15	1	10-31

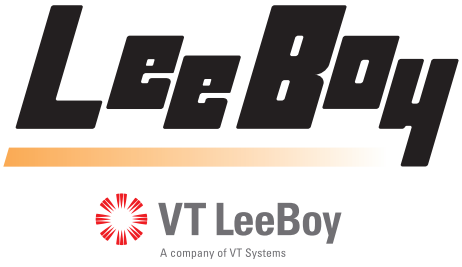
Description	Part Number	Figure Number	Item No.	Page Number
Steering Wheel, 15.00, 36 Spline	· 981455	10-15	–	10-31
Strainer, Suction, 100 Mesh	72243	10-29	8	10-59
Strainer, Suction, 100 Mesh	980560	10-29	9	10-59
Strobe, Light, Amber	211748-02	10-12	28	10-25
Stud, Frt. Wheel	· 989926	10-2	5	10-5
Support, Auger Bearing, Inner	· 989461	10-16	15	10-33
Support, Auger Brearing Plate, Upper	· 984760	10-16	9	10-33
Switch, Battery Disconnect	SW29	10-10	29	10-21
Switch, Emer Stop Assy	988924-01	10-15	5	10-31
Tank, Coolant Recovery	983273	10-29	22	10-59
Toggle Switch	500040	10-15	6	10-31
Torque Hub, Conveyor Drive, 8816	980200	10-4	19	10-9
Torque Hub, w/Brake	· 989000	10-1	2	10-3
Tube, Arm Inner Roller Stop	· 980441	10-17	3	10-35
Tube, Arm Inner Roller Stop	· 980441	10-17	–	10-35
Tube, Auger, 9000	· 989454	10-16	10	10-33
Tube, Charge Air, 2.00 ID x 3.00 Long, Str.	987280	10-10	14	10-21
Tube, Rail Support	· · 980402	10-28	–	10-57
Tube, Reducer, Charge Air, 2.50 x 3.00	982780	10-10	11	10-21
Tube, Screed Hand Rail, 9000	· 1000608	10-28	7	10-57
Tube, Sq., 1.25 x 0.105 x 18.00	853857	10-12	2	10-25
Upper Back Walkboard, LH	989565	10-13	16	10-27
Upper Back Walkboard, RH	989564	10-13	10	10-27
Valve, Ball, 2.00	35354	10-29	10	10-59
Valve, Directional Solenoid	983643-01	10-29	–	10-59
Valve, Flow Divider w/Priority	1001685	10-29	16	10-59
Valve, Gate, 1.25	140640	10-29	11	10-59
Valve, Gate, 1.50	981940	10-29	12	10-59
Valve, PVG Steering	1001687	10-29	18	10-59
Valve, Steering Enable	1001686	10-29	17	10-59
Vibrator Assy, Less Motor,	· · 855535	10-23	–	10-47
Vibrator, Hydraulic	1000059	10-21	26	10-43
W/M, C&V, Turnbuckle, Lower	· 1002320	10-24	10	10-49
W/M, C&V, Turnbuckle, Upper	· 1002321	10-24	3	10-49
W/M, Cover, Access Hole, Ext., LH	· 1002331	10-20	4	10-41
W/M, Cover, Access Hole, Ext., RH	· 1002326	10-20	–	10-41
W/M, Cross Brace, Back	· 1002343	10-28	14	10-57
W/M, Cross Brace, Front	· 1002342	10-28	13	10-57
W/M, Crown & Valley Cover	· 1002318	10-26	1	10-53
W/M, Cylinder Mount, Ext., Screed	· 1002340	10-22	3	10-45
W/M, Cylinder Mount, Ext., Screed	· 1002340	10-22	–	10-45

Description	Part Number	Figure Number	Item No.	Page Number
W/M, Frame Cover Access	· 1002335	10-26	5	10-53
W/M, Frame Cover Access	· 1002335	10-26	5	10-53
W/M, Frame Cover w/Tool Box	· 1002336	10-26	7	10-53
W/M, Fume Exhaust	1000936	10-12	8	10-25
W/M, Heat Box, Ext., LH	· · 1000593	10-20	12	10-41
W/M, Heat Box, Ext., RH	· · 1000604	10-20	–	10-41
W/M, Heating Element Clamp	· 1000974	10-19	5	10-39
W/M, Hopper w/Hinge Pipe, LH	1002162	10-11	15	10-23
W/M, Hopper w/Hinge Pipe, RH	1002161	10-11	6	10-23
W/M, Inside Frame Screed Ext., LH	· 1002332	10-20	7	10-41
W/M, Inside Frame Screed Ext., RH	· 1002325	10-20	–	10-41
W/M, Lower Mount, C&V	· 1002323	10-24	9	10-49
W/M, Mount, Screed Manifold, LH	· 1002590	10-19	16	10-39
W/M, Mount, Screed Manifold, RH	· 1002591	10-19	17	10-39
W/M, Outside Frame, Screed Ext., LH	· 1002333	10-20	14	10-41
W/M, Outside Frame, Screed Ext., RH	· 1002327	10-20	–	10-41
W/M, Screed Arm, LH, Front	· 1002346	10-17	2	10-35
W/M, Screed Arm, LH, Rear	1002348	10-17	5	10-35
W/M, Screed Arm, RH, Front	· 1002345	10-17	1	10-35
W/M, Screed Arm, RH, Rear	1002349	10-17	6	10-35
W/M, Screed Extension, LH	· 1002330	10-20	16	10-41
W/M, Screed Extension, RH	· 1002324	10-20	–	10-41
W/M, Slide Plate, Screed Ext., LH	· 1002337	10-22	4	10-45
W/M, Slide Plate, Screed Ext., RH	· 1002339	10-22	–	10-45
W/M, Stair Tread, Short	· 1002341	10-28	9	10-57
W/M, Tilt Adjust, 9000	· 1002328	10-20	19	10-41
W/M, Tilt Adjuster	· 1002016	10-17	11	10-35
W/M, Upper Mount, C&V	· 1002322	10-24	6	10-49
Washer, 0.750 x 3.00 x 0.250	· 982038	10-2	27	10-5
Washer, Flat, .625 ID x 2.25 OD x .188 Thk	856046	10-4	13	10-9
Washer, Flat, 1.25 SAE	· 80969	10-2	8	10-5
Washer, Flat, SAE, .250	119-1	10-8	25	10-17
Washer, Flat, SAE, .250	119-1	10-12	27	10-25
Washer, Flat, SAE, .250	119-1	10-25	13	10-51
Washer, Flat, SAE, .312	119-2	10-6	9	10-13
Washer, Flat, SAE, .312	119-2	10-12	15	10-25
Washer, Flat, SAE, .312	119-2	10-14	37	10-29
Washer, Flat, SAE, .375	119-3	10-6	17	10-13
Washer, Flat, SAE, .375	119-3	10-8	22	10-17
Washer, Flat, SAE, .375	119-3	10-10	19	10-21
Washer, Flat, SAE, .375	119-3	10-11	33	10-23

Description	Part Number	Figure Number	Item No.	Page Number
Washer, Flat, SAE, .375	119-3	10-12	22	10-25
Washer, Flat, SAE, .375	119-3	10-13	24	10-27
Washer, Flat, SAE, .375	119-3	10-24	16	10-49
Washer, Flat, SAE, .375	119-3	10-25	14	10-51
Washer, Flat, SAE, .375	119-3	10-26	13	10-53
Washer, Flat, SAE, .375	119-3	10-27	9	10-55
Washer, Flat, SAE, .375	119-3	10-28	21	10-57
Washer, Flat, SAE, .375	119-3	10-29	5	10-59
Washer, Flat, SAE, .437	119-4	10-11	28	10-23
Washer, Flat, SAE, .437	119-4	10-20	25	10-41
Washer, Flat, SAE, .500	119-5	10-8	12	10-17
Washer, Flat, SAE, .500	119-5	10-9	21	10-19
Washer, Flat, SAE, .500	119-5	10-11	23	10-23
Washer, Flat, SAE, .500	119-5	10-12	18	10-25
Washer, Flat, SAE, .500	119-5	10-14	30	10-29
Washer, Flat, SAE, .500	120-5	10-19	20	10-39
Washer, Flat, SAE, .500	119-5	10-19	23	10-39
Washer, Flat, SAE, .500	119-5	10-21	43	10-43
Washer, Flat, SAE, .500	119-5	10-24	21	10-49
Washer, Flat, SAE, .500	119-5	10-25	17	10-51
Washer, Flat, SAE, .500	119-5	10-26	9	10-53
Washer, Flat, SAE, .500	119-5	10-27	14	10-55
Washer, Flat, SAE, .625	119-7	10-9	18	10-19
Washer, Flat, SAE, .625	119-7	10-11	21	10-23
Washer, Flat, SAE, .625	119-7	10-21	46	10-43
Washer, Flat, SAE, .750	119-8	10-21	34	10-43
Washer, Flat, SAE, .750	119-8	10-23	13	10-47
Washer, Flat, SAE, #10	119-A	10-15	14	10-31
Washer, Flat, SAE, 1.00	119-10	10-11	18	10-23
Washer, Flat, SAE, 1.00	119-10	10-17	20	10-35
Washer, Flat, SAE, 1.25	119-12	10-18	27	10-37
Washer, Flat, USS, .625	120-7	10-4	26	10-9
Washer, Flat, USS, .750	120-8	10-4	22	10-9
Washer, Flat, USSHD, .500 x 2.00 x .188	R49	10-6	12	10-13
Washer, Flat, USSHD, .500 x 2.00 x .188	R49	10-7	3	10-15
Washer, Flat, USSHD, .500 x 2.00 x .188	R49	10-22	13	10-45
Washer, Flat, USSHD, .500 x 2.00 x .188	R49	10-23	11	10-47
Washer, Lock, .250	118-1	10-8	24	10-17
Washer, Lock, .250	118-1	10-12	26	10-25
Washer, Lock, .250	118-1	10-25	12	10-51
Washer, Lock, .312	118-2	10-6	10	10-13

Description	Part Number	Figure Number	Item No.	Page Number
Washer, Lock, .312	118-2	10-12	14	10-25
Washer, Lock, .312	118-2	10-14	35	10-29
Washer, Lock, .312	118-2	10-19	27	10-39
Washer, Lock, .375	118-3	10-6	18	10-13
Washer, Lock, .375	118-3	10-8	16	10-17
Washer, Lock, .375	118-3	10-8	21	10-17
Washer, Lock, .375	118-3	10-9	30	10-19
Washer, Lock, .375	118-3	10-10	20	10-21
Washer, Lock, .375	118-3	10-11	34	10-23
Washer, Lock, .375	118-3	10-12	24	10-25
Washer, Lock, .375	118-3	10-13	26	10-27
Washer, Lock, .375	118-3	10-19	24	10-39
Washer, Lock, .375	118-3	10-21	37	10-43
Washer, Lock, .375	118-3	10-26	14	10-53
Washer, Lock, .375	118-3	10-29	4	10-59
Washer, Lock, .437	118-4	10-11	27	10-23
Washer, Lock, .500	118-5	10-4	25	10-9
Washer, Lock, .500	118-5	10-5	41	10-11
Washer, Lock, .500	118-5	10-6	13	10-13
Washer, Lock, .500	118-5	10-7	9	10-15
Washer, Lock, .500	118-5	10-8	13	10-17
Washer, Lock, .500	118-5	10-9	20	10-19
Washer, Lock, .500	118-5	10-11	24	10-23
Washer, Lock, .500	118-5	10-12	19	10-25
Washer, Lock, .500	118-5	10-14	29	10-29
Washer, Lock, .500	118-5	10-19	22	10-39
Washer, Lock, .500	118-5	10-21	42	10-43
Washer, Lock, .500	118-5	10-22	12	10-45
Washer, Lock, .500	118-5	10-23	8	10-47
Washer, Lock, .500	118-5	10-24	22	10-49
Washer, Lock, .500	118-5	10-25	18	10-51
Washer, Lock, .500	118-5	10-26	10	10-53
Washer, Lock, .500	118-5	10-27	17	10-55
Washer, Lock, .625	118-7	10.3	42	10-7
Washer, Lock, .625	118-7	10-4	12	10-9
Washer, Lock, .625	118-7	10-9	17	10-19
Washer, Lock, .625	118-7	10-16	25	10-33
Washer, Lock, .625	118-7	10-16	29	10-33
Washer, Lock, .625	118-7	10-21	45	10-43
Washer, Lock, .625	· · 118-7	10-23	–	10-47
Washer, Lock, .750	118-8	10-5	35	10-11

Description	Part Number	Figure Number	Item No.	Page Number
Washer, Lock, .750	118-8	10-7	14	10-15
Washer, Lock, .750	118-8	10-21	50	10-43
Washer, Lock, 1.00	118-10	10-11	19	10-23
Washer, Lock, 1.00	118-10	10-17	18	10-35
Washer, Rubber, Rad. Mount	983040	10-9	31	10-19
Washer, Thrust	· 989172	10-2	15	10-5
Washer, Wedge Lock, .500 ID	986810	10-22	17	10-45
Washer, Wedge Lock, .500 ID	986810	10-27	15	10-55
Washer, Wedge Lock, .67 ID	986811	10-21	48	10-43
Weldment, Bogie, Left Side	· 989691	10-2	24	10-5
Weldment, Bogie, Right Side	· 989690	10-2	–	10-5
Weldment, Endgate, Fixed, LH 9000	· 1000598	10-27	4	10-55
Weldment, Endgate, Fixed, RH 9000	· 1000602	10-27	–	10-55
Weldment, Endgate, Floating, LH 9000	· 1000599	10-27	5	10-55
Weldment, Endgate, Floating, RH 9000	· 1000603	10-27	–	10-55
Weldment, Tie Rod, LH	· 989687	10-2	19	10-5
Weldment, Tie Rod, RH	· 989686	10-2	–	10-5
Wiper, Rubber Hopper	1002191	10-11	11	10-23



500 Lincoln County Parkway Ext.
Lincolnton, North Carolina 28092
Phone: (704) 966-3300 - Fax Sales: (704) 483-5802

www.leeboy.com

Printed in U.S.A.