LeeBoy

OPERATIONS, SERVICE AND PARTS MANUAL

LEEBOY MODEL 8510B CONVEYOR PAVER

Manual No. 1003096-02

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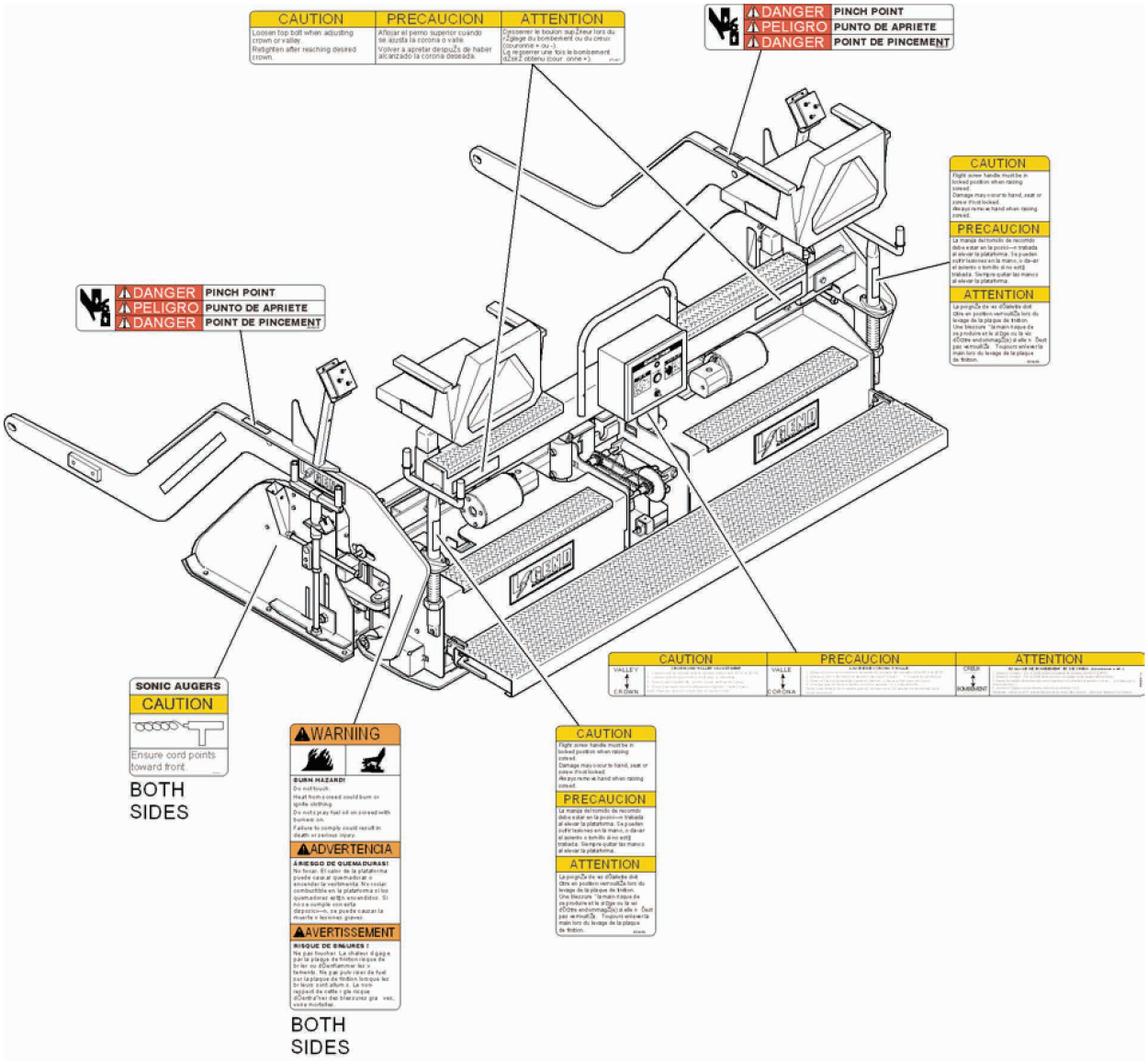


8510B Electric Screed Safety Labels and Safety Label Locations

Figure 2-2

Table 4-4. CAT Tier 3 Engine Specifications

ITEM	SPECIFICATION
Manufacturer and Model	CAT, C3.4 T NA 83 HP
Emission Regulation	Tier 3 / Stage III A
Type	I-4, 4-Stroke-Cycle Diesel, Liquid Cooled
Number of Cylinders	4
Bore, Stroke, and Displacement	3.70" (94 mm) ; 4.72" (120 mm); 201 in^3 (3.30 L)
Combustion System	Direct Injection
Intake System	Turbocharged
Power Rating bkW - HP	73.7 bkW - 83.1 HP
Maximum Speed	2500 rpm
Fuel Filter Type	CAT Diesel

Table 4-5. Machine System Capacity Specifications

ITEM	SPECIFICATION	
	Kubota	**CAT**
Engine Lubrication Oil - Refill capacity	15.0 quarts (14.2 L)	10.6 quarts (10.0 L)
Engine Lubrication Oil - Pan capacity	13.9 quarts (13.2 L)	9.5 quarts (9.0 L)
Hydraulic Oil Reservoir	40 gal (151.40 L)	
Torque Hubs	32 oz. (0.355 L) each	
Fuel	20 gal (75.70 L)	
Propane	One (1) 20 lb tank	
Anitfreeze	Glycol based, Rd, Extended Life, 3.65 gal (13.8 L)	

Table 4-6. Electrical Specifications

ITEM	SPECIFICATION	
	Kubota	**CAT**
Battery	One, Maintenance Free	
Battery Ampere Hour Rating	1125 CCA	
Battery Voltage	12 Volts	
Alternator Type and Voltage	12 Volt, negative ground	
Alternator Output Amperage	60 Amps	63 Amps
Alternator Fan Belt Tension	Automatic belt tension mechanism keeps serpentine belt under tension at all times	
Starter Manufacturer		Denso
Starter Voltage and Type	12 Volt, negative ground	

Table 4-7. Hydraulic Pressures Specifications

ITEM	SPECIFICATION
Drive	4500 PSI (310 Bar)
Conveyors	2500 to 2600 PSI (172 to 179 Bar)
Augers and Cylinders	2600 to 2700 PSI (179 to 186 Bar)

Section 5
COMPONENT LOCATION

5

Table 5-4. Steering and Speed Control Module - Steering Wheel

ITEM NO.	CONTROL NAME	FUNCTION
1	Run/Stop Switch	The RUN/STOP switch controls stopping the machine and activating/deactivating the operator control station. When the switch is set to the STOP position, operator control station is deactivated, parking brake is applied, and machine will not move. When switch is set to RUN, operator control station is activated, parking brake is released, and machine resumes to previously set speed. NOTE: Only one operator control station can be active at a time (see ***Activating and Deactivating Operator Control Station*** in Section 6). NOTE: If the position of the joystick(s) **has NOT changed** from when the RUN/STOP switch is moved to the STOP position and then later switched to the RUN position, then paver will resume travel at the same speed of travel when the switch is set to the RUN position. If the position of the joystick(s) **HAS changed** from when the RUN/STOP switch is moved to the STOP position then later switched to the RUN position, the paver travel function will be temporarily disabled until joysticks are returned to the NEUTRAL position.
2	Forward Neutral Reverse Joystick	Lever controls the speed of travel forward and reverse. Moving joystick forward moves machine forward. The farther forward the faster the speed. Moving joystick backward moves machine backward. The farther backward the faster the speed. When Joystick is centered, the machine is in neutral. NOTE: Machine must be in neutral to start machine.
3	Steering Wheel	Controls the direction of travel Right and Left. Rotating steering wheel right moves machine to the right. The farther right the more aggressively machine turns to the right. Rotating steering wheel left moves machine to the left. The farther left the more aggressively machine turns to the left. When wheel is centered, the machine should travel in a straight direction.

GENERAL INFORMATION

Before operating the LeeBoy Model 8510B Conveyor Paver, you must read the following safety information and review ***Safety*** in Section 2.

⚠ 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 8510B Conveyor Paver.

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

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

SAFETY

- Verify there are no people, obstacles or other equipment near or in the line of travel of the LeeBoy Model 8510B Conveyor Paver, before starting the engine sound horn.
- Work slowly in tight areas.
- Avoid steep hills if possible.
- Always look before changing the direction of travel.
- Always park the paver on solid, level ground in low range. If this is not possible, always park the paver at a right angle to the slope. Lower screed when parked.
- Use proper flags, barriers and warning devices, especially when parking in areas of traffic.
- Do not run engine in a closed building for long periods of time.
- Never open a valve to burner unless a flame is present. Heat screed for no more than 15 minutes.
- Make sure all valves are closed before propane is turned ON.
- Avoid leaving engine running without operator present.
- Never work on the paver with the engine running.
- Do not change the engine governor settings.
- Always replace damaged or lost decals.
- Disconnect battery cables when working on the electrical system or when welding on the unit.
- If battery needs a charge, be sure battery charger is off when making connections.
- Be sure the correct battery polarity is observed (negative (-) to negative (-) and positive (+) to positive (+), when connecting a battery charger or jumper cable. Never charge a frozen battery .

- Set the screed directly on a fresh mat of hot asphalt while running the heating system, allowing the heat of the asphalt to help heat the screed plate.

STARTING TO PAVE

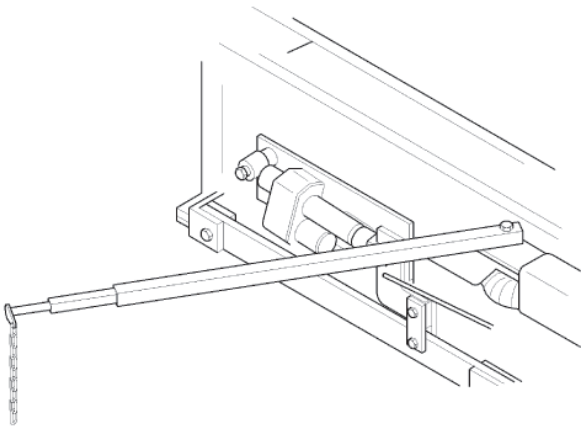
The LeeBoy Model 8510B Conveyor Paver is capable of placing bituminous base, binder and surface courses, lime or Portland cement stabilized sub-base and graded aggregate materials up to a thickness of 6 in (20 cm).

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

The paver is equipped with electric and manual thickness controls and an 8 ft to 15 ft (2.8 m to 4.5 m) wide screed. The paver can handle everything such as 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. Use the guide bar gauges as shown in **Figure 6-9**.



Guide Bar Gauges

Figure 6-9

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

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

NOTE: If the paver is equipped with a truck hitch, the truck driver will not be required to maintain pressure on the brake (see **Truck Hitch Attachment (Option)** in Section 6).

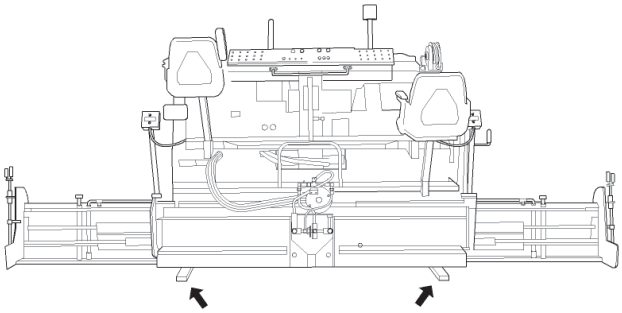
4. Always pave in low range.

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

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

Setting Screed To Pave

1. Move to the starting position.
2. Extend the screed to the desired width.
3. To set depth, place screed on starter blocks **(Figure 6-10)**.



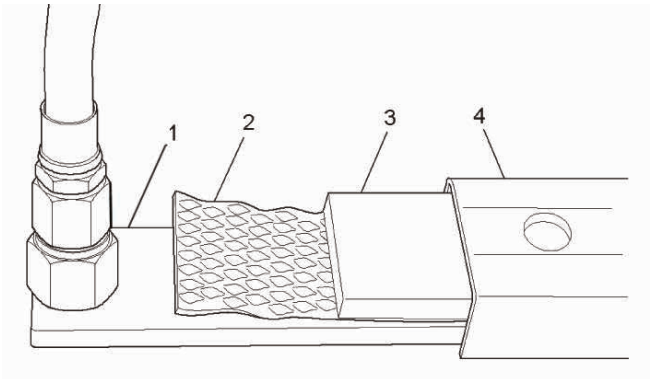
Starter Blocks

Figure 6-10

4. Level screed with flight screws **(Figure 5-6,2)** until neutral position is felt.

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

5. Set the left or right SCREED LIFT lever to the FLOAT position. This will remove the hydraulic pressure from the cylinder, allowing screed to float.
6. Turn flight screw about one complete turn clockwise.



Heating Element Assembly Detail

Figure 6-30

1 - Element

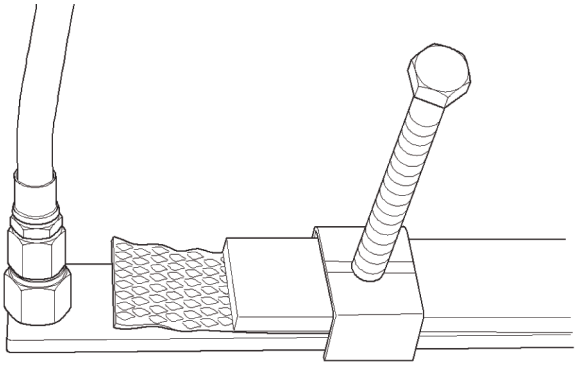
2 - Insulation

3 - Support Bar

4 - Shield

A typical element clamp assembly is shown **(Figure 6-31)**. The clamp setup may vary slightly depending on your screed size, or whether you are working on the extension or main screed plates. The principle is the same with all of the clamps.

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

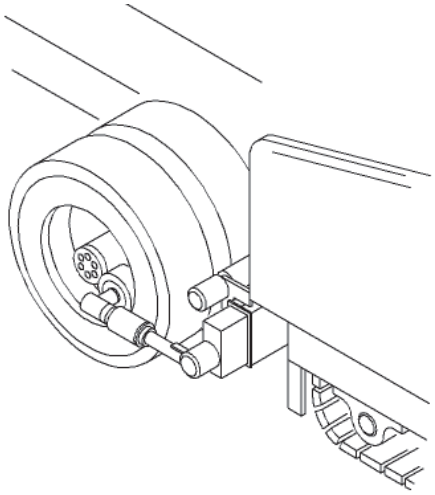


Typical Heating Element Clamp

Figure 6-31

TRUCK HITCH ATTACHMENT (OPTION)

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



Truck Hitch Option

Figure 6-32

1. Extend the arm extensions of the truck hitch by setting the TRUCK HITCH IN/OUT Lever **(Figure 5-5,1)** to the OUT (Down) position to extend the hitch arms.
2. Slowly drive paver toward rear of truck until roll on hitch makes contact with the rear tires of the truck.
3. Retract the arm extension by setting the TRUCK HITCH IN/OUT Lever **(Figure 5-5,1)** to the IN (Up) position to retract the hitch arms until both guide rollers are fully locked into truck wheel rims.
4. It may be necessary to adjust the roller guides to the inside of the wheel rims, initially.

MAINTENANCE ADJUSTMENTS

Extension Top Guide Adjustment

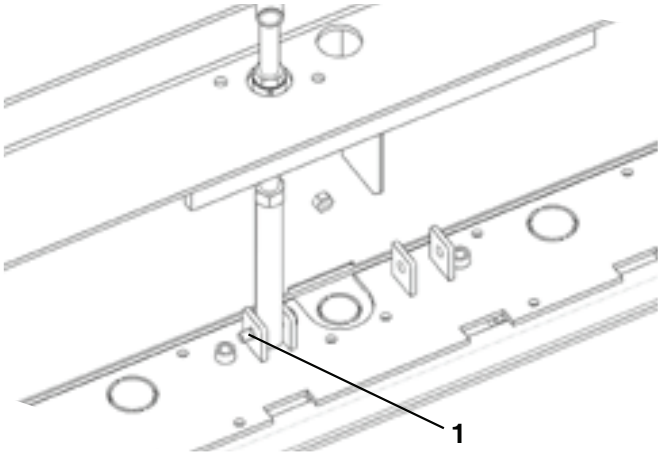
1. Close the left and right extensions to their fully retracted positions.
2. Loosen top jack bar bolts.
3. Use allen set screws on top of rail to tighten the upper slide guide rail down. Access the upper slide guide rails through the small openings in the upper cover near the front of the main screed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

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

Replacing Screed Extension Wear Plates

Removal

1. Run extension out fully.
2. Remove endgate by disconnecting tilt screw and loosen the 7/8" jam nut.
3. Remove nut. Endgate will drop forward out of slot and slide off of stud.
4. For units with electric heating units. Locate and unplug the element power wire. Make certain the wire running into the extension screed is loose and will drop away when the screed plate is removed with interference.
5. Remove shoulder bolts out of lower adjustment screws on top of wear plate **(Figure 7-4,1)**.
6. Closely inspect all plugs, pins, and wires for damage. Replace if needed.
7. Lower screed to ground and pull front pivot pin out on 8510B **(Figure 7-5)**.
8. Lift screed and wear plate should be disconnected.



Wear Plate Shoulder Bolts

Figure 7-4

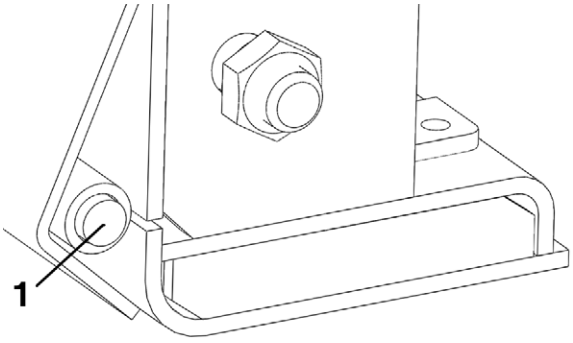
1 - Adjuster Screw Shoulder Bolt

Installation

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

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

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



8510B Pivot Pin

Figure 7-5

1 - Extension Wear Plate Pivot Pin

Generator Capacitor Replacement

The capacitor **(Figure 7-15,1)** located in the rear of the generator controls and regulates the voltage in the generator while in operation. If this capacitor fails, the voltage will drop to little or no output at all.

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

To replace generator capacitor:

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

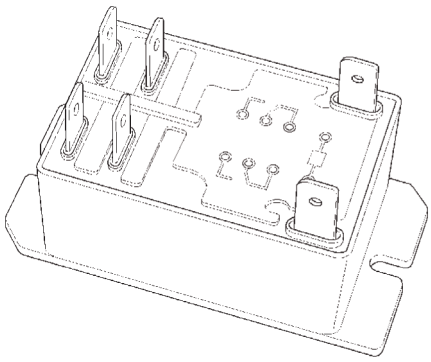
There are no other voltage adjustments that can be made to the generator.

Testing Element Relays

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

To test element relay:

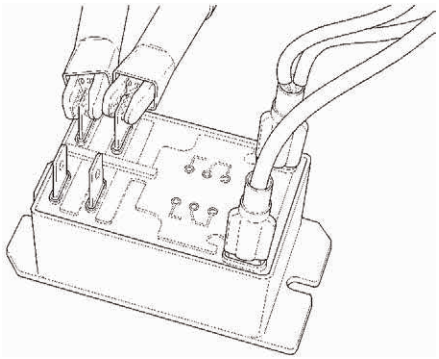
1. Disconnect any wires to the relay, or completely remove it from the control box **(Figure 7-17)**.



Relay

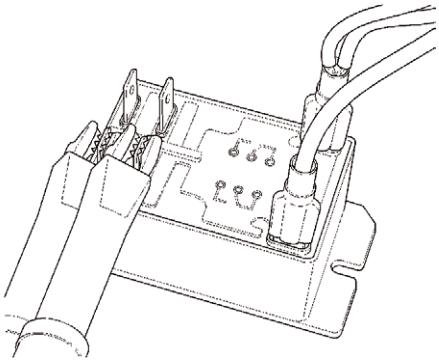
Figure 7-17

Place the leads of an ohm meter, or continuity tester across the contact terminals (2 to 4) or (6 to 8) as shown in **Figure 7-18; Figure 7-19**.



First Terminal Set Testing

Figure 7-18



Second Terminal Set Testing

Figure 7-19

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

2. With the ohm meter still on the contact terminals, apply 12vdc to the coil terminals of the relay **(Figure 7-18)**.

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

Rollers

1. Raise conveyor and insert safety prop (see ***Raising Conveyor*** in Section 7).
2. Locate the track tension manifold **(Figure 10-1,43)**. Then back the relief cartridge out of the aluminum block about 3 turns or until you hear the tension pressure release.
3. Jack the paver up on the side needing the repair.

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

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

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

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

Sprockets

1. Raise conveyor and insert safety prop (see **Raising Conveyor** in Section 7).
2. Locate track tension manifold **(Figure 10-1,43)**, then back the relief cartridge out of the aluminum block about three turns or until you hear the tension pressure release.

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

3. Rotate track so that the master link is at the rear bottom of the front idler **(Figure 10-1,14)**, then remove the master pin **(Figure 10-1,28)**. Once master pin is removed, back up the paver until the track clears the front idler.
4. Jack up the paver on the side needing to be repaired.

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

5. Remove Rear Track Roller.
6. Remove bolts from Sprocket and replace Sprocket.
7. Apply thread lock (Loctite) to bolts and torque to proper specification.
8. Lower sprocket back down toward track chain, keeping sprocket about 1 in. (2.54 cm) out of chain.
9. Check that track chain is fully seated with drive sprocket and rollers are aligned with chain center.
10. Tighten tension relief back in.
11. Lower paver to ground, remove jack and start machine.

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

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

Section 8
TROUBLESHOOTING

8

Critical Faults

The following faults will prevent paver movement:

1. Steering control box not detected.
2. Joysticks not optimized.
3. Pump control coil fault.
4. Brake valve/Pump neutral bypass coil fault (High current output mode only).
5. Joystick(s) not in NEUTRAL at startup.
6. Joysticks in NEUTRAL with RUN/STOP switch in RUN position safety timeout.

A joystick fault can prevent paver movement if:

- There is only one box present
- The fault happens in the box that has control (RUN/STOP switch in RUN position)
- The fault occurs when neither box has control

NOTE: The paver will operate if fault occurs in the box that is not currently in control (i.e. the left box is operating the paver and the right box has a fault). The fault will disable the paver once the controlling box is put in the STOP position. Disconnecting the faulted box will allow control to be restored to the opposite box.

Table 8-5. Fault Codes for Status LED

Blink Code	Reason for Fault	Corrective Action
Continuous On (at startup)	Joysticks not in neutral at startup	Place all joysticks in neutral
Continuous On (while running)	Joysticks in neutral too long with Run/Stop Switch in Run position (safety timeout)	Toggle Run/Stop switch from Run to Stop and back to Run
Continuous rapid blink	Calibration Mode	Open dashboard panel and unplug the Optimize/ Calibrate plug from the Calibrate receptacle
Continuous slow blink	Optimize Mode	Open dashboard panel and unplug the Optimize/ Calibrate plug from the Optimize receptacle
21	Left Steering Control Box not optimized	Perform Optimize procedure in Section III
22 or 27	Left Steering Control Box: Left joystick or FNR joystick fault	Voltage <100mv or >4900 mv Check wires to Left joystick or FNR joystick
23 or 28	Left Steering Control Box: Right joystick or steering wheel fault	Voltage <100mv or >4900 mv Check wires to right joystick or steering wheel
24	Right Steering Control Box not optimized	Perform Optimize procedure in Section III
25 or 37	Right Steering Control Box: Left joystick or FNR joystick fault	Voltage <100mv or >4900 mv Check wires to Left joystick or FNR joystick
26 or 38	Right Steering Control Box: Right joystick or steering wheel fault	Voltage <100mv or >4900 mv Check wires to right joystick or steering wheel
31	Break Release / Pump neutral bypass valve coil	NOTE: Only used in high current output mode The output is open or short-circuited Check the coil and wires
32	Right pump FWD or REV output fault	The output is open or short-circuited Check the coil and wires
33	Left pump FWD or REV output fault	The output is open or short-circuited Check the coil and wires
36	Vibrator/ Electric Actuator relay fault	The output is open or short-circuited Check the relay and wires

Electrical 4 of 6

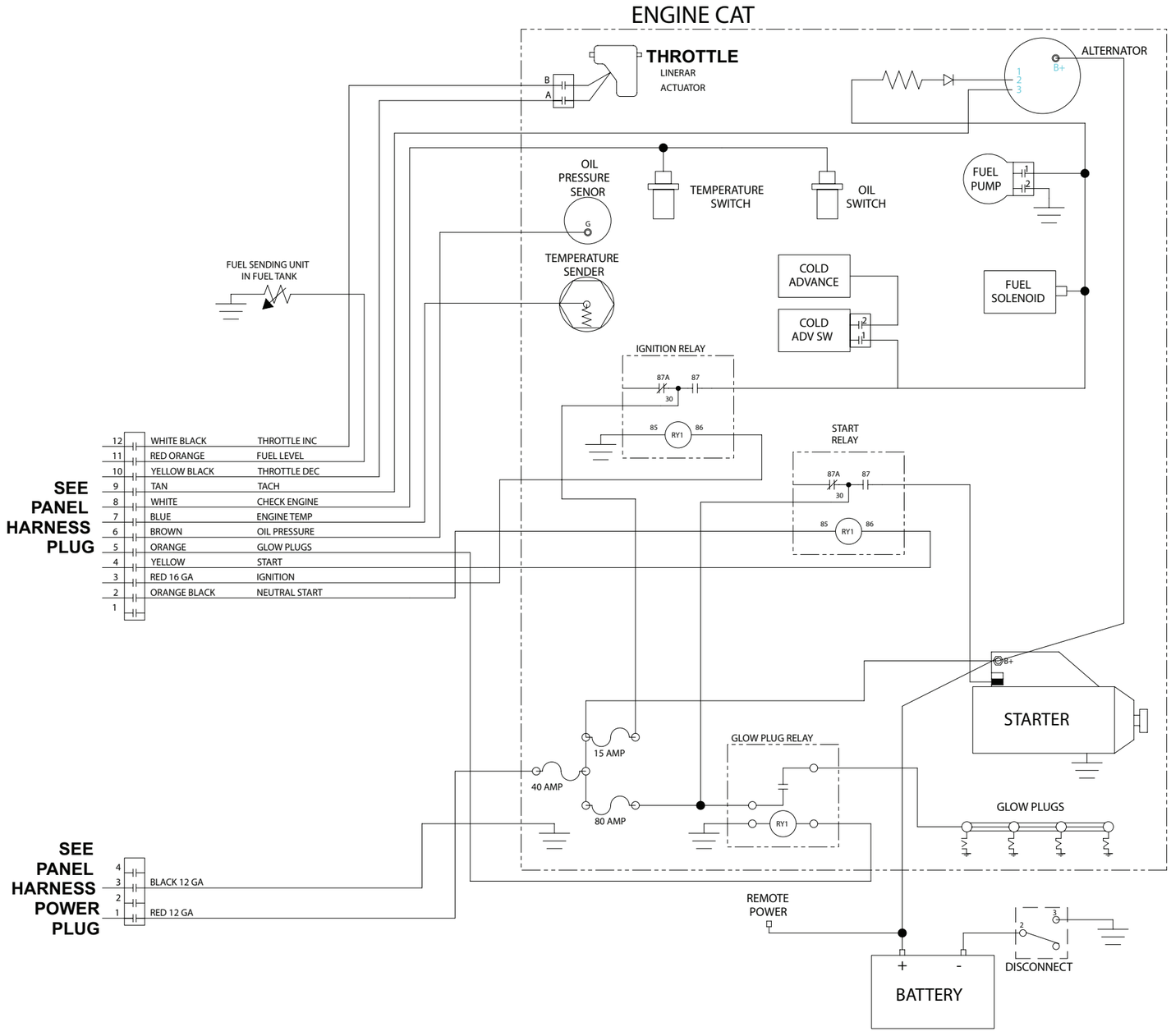


Figure 9-4

Hydraulic Hosing 3 of 5

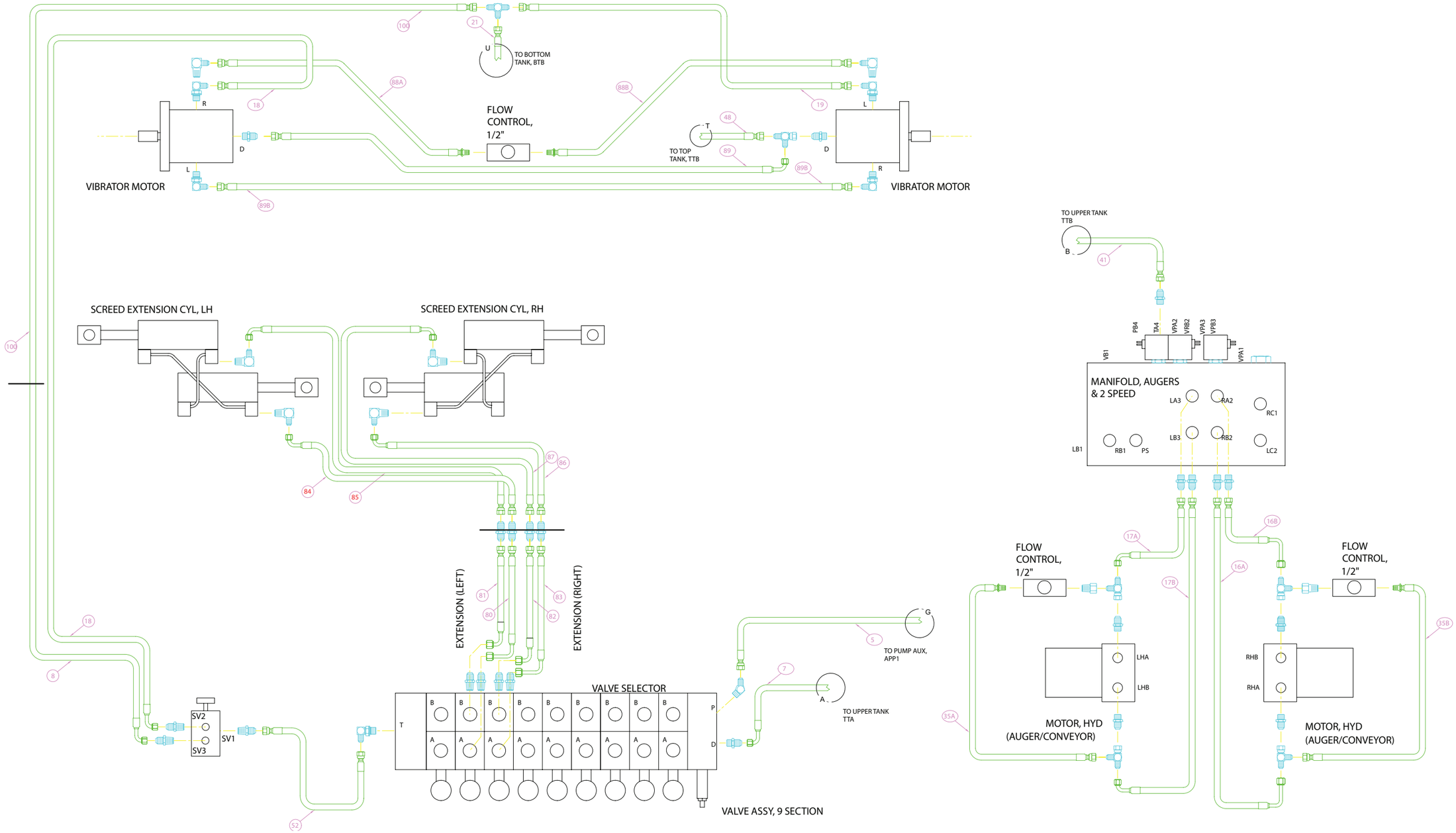


Figure 9-9

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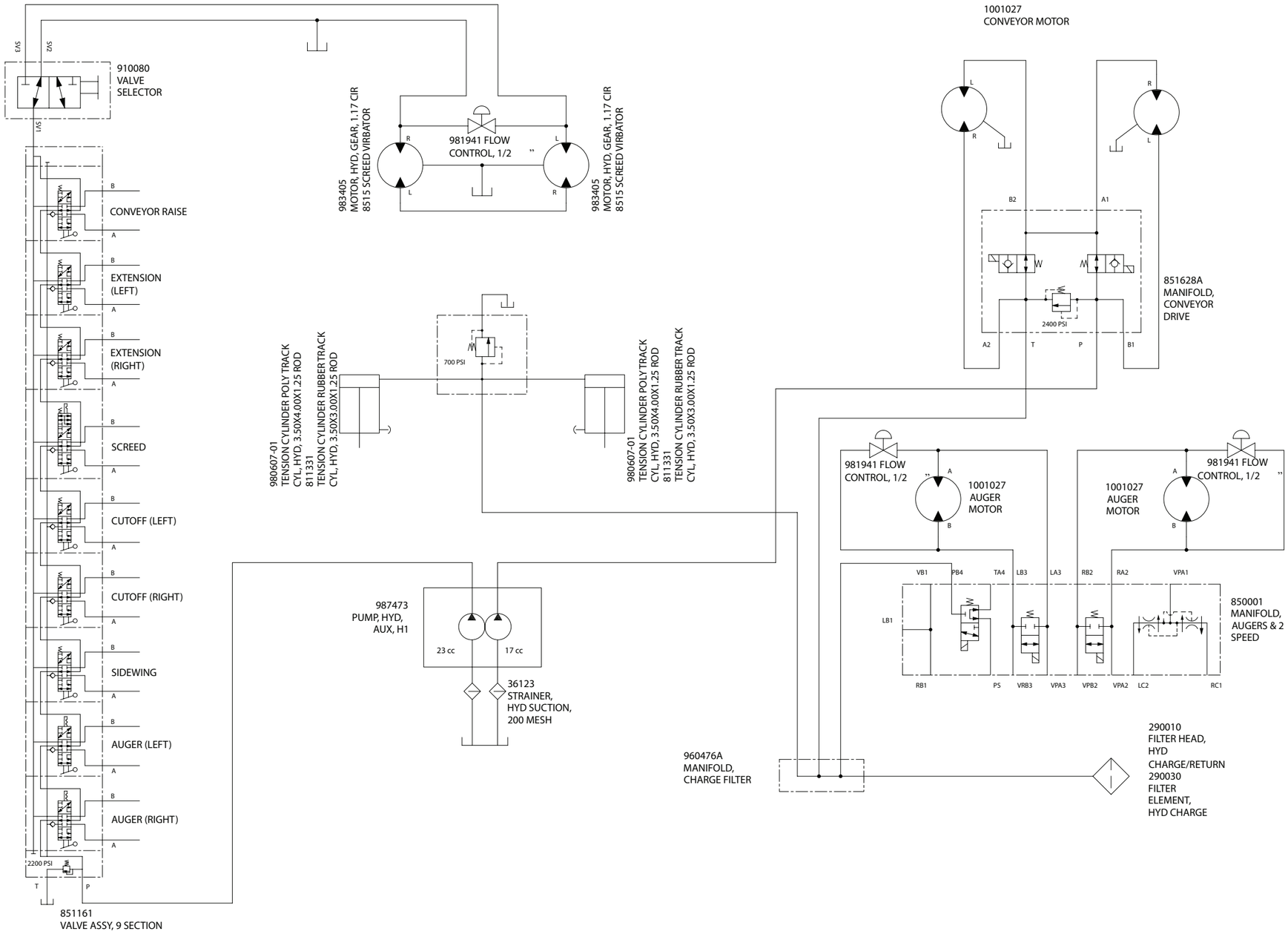

Figure 9-14

Sprocket Drive Track System (4 Roller Undercarriage) (continued) Parts List

Item No.	Part Number	Qty.	Description	Remarks
34	850130	4	Bearing, Auger, Axle, Idler	
35	980032	2	Roller Assy, Push Bar, w/Brgs and Shaft	
36	980034	2	Shaft, Push Bar Roller	
37	810070	2	Bushing, 2.00 ID x 2.50 OD x 2.50	
38	810081SRV	1	Pin, Push Bar Swivel	
39	6801-10-8	1	FITT, 90 10MJ-08MB	
40	6400-10-8	1	FITT, Str 10MJ-08MB	
41	6401-8-8	1	FITT, Str 08MP-08MB	
42	5406-12-8	1	FITT	
43	851544	1	Manifold, Track Tensioner	
44	811362	1	Motor, Hyd, Drive, 2 Speed	
45	851489A	A/R	Seal, Hyd Motor/Pump	
46	811366	A/R	O-Ring, Hyd. Motor	
47	811364	2	CSHH, .500-13 x 1.50	
48	118-5	2	Washer, Lock, .500	
49	8550B	1	Hose Assy Track RH Tensioner	
50	980035	2	Roller, Extension Bumper	
51	852664	2	Extension, Front Bumper	

Hopper Components Parts List (continued)

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

H1 Pump & Controls Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	986519	1	Pump, Hyd. Single w/EDC (new: H-1 Pump)	
–	986519-01	A/R	Coil, Control Bypass H-1 Pump	Not Shown
–	986519-02	A/R	Nut, Plastic, H-1 Pump	Not Shown
–	986519-03	A/R	Kit, Shaft, H-1 Pump	Not Shown
2	987473	1	Pump, Aux. H-1, 11T Spline	
3	987134	2	Dual Joysticks, Control Box, Plus One	
4	851548	2	Curly Cord, Steering Box to Junction Box	
5	987135	1	Controller, 50 DIN,. Plus One	
6	1003180	1	Harness, Plus One to Pumps	
7	36808	1	O-Ring, Piggyback to Main	
9	1000708	2	Steering Wheel, Control Box, Plus One	
–	160320	1	Horn, Backup Alarm	Not Shown
–	490010	A/R	Handle Grip for Steering Box Handle	Not Shown
–	851540	A/R	Potentometer, Steering Box	Not Shown
–	987134-01	A/R	Potentometer, Dual Joystick	Not Shown
–	987134-02	A/R	Joystick, Dual Joystick Box	Not Shown
–	987134-03	A/R	Knob, Dual Joystick Box	Not Shown

Cat Engine (continued) Parts List (continued)

Item No.	Part Number	Qty.	Description	Remarks
–	33164	2	#10 Hose Clamp .375 to .625	Not Shown
–	33169	4	#28 Hose Clamp 1.25 to 1.75	Not Shown
–	33437	1	#40 Hose Clamp 2.00 to 2.50	Not Shown
–	700500	1	#44 Hose Clamp 2.25 to 2.75	Not Shown
–	871111527	1	#48 Hose Clamp 2.50 to 3.00	Not Shown
22	986537-35	1	Muffler	
23	1002917-27	2	Mounting Band 6.62: ID, Metal	
24	71172	1	Clamp,Muffler, 2.00	
25	34679	1	Seal Clamp 2.50	
26	171170	1	Rbr Elbow	
27	37081	1	Stack Extn	
28	33312	1	Clamp, Muffler, 2.50 x .313	
29	1002917-28	1	Tail Pipe 2.50 ID 12.00 L	
30	38385	1	Air Filter Fpg Radial	
–	38385-01	1	Filter Element, Air Primary	Not Shown
–	38385-02	1	Filter Element, Air Safety	Not Shown
31	38385-05	1	Bracket, Air Cleaner Mount	
32	1002917-29	1	Inlet Hood	
33	1002917-30	1	Servisignl	
34	1002917-31	1	Ell, Rbr 2.50 x 2.13 Hose	
35	1002917-32	4	Sgle .375 Thread, 1.00 Rubber	
–	38268	1	Clamp - T Bolt 2.25 ID Nom 2.50	Not Shown
–	36045	1	Clamp - T Bolt 2.50 ID Nom 2.80	Not Shown
–	171090	1	Clamp - T Bolt 3.00 ID Nom 3.31	Not Shown
–	171190	1	Clamp - T Bolt 3.50 ID Nom 3.80	Not Shown
36	982157	2	Ball Joint, .375, Male, w/Stud	
37	987985	1	Actuator, Emulsion Throttle, DC 12v	
38	980317	1	Adapter, Throttle Actuator Rod	
39	980318	1	Adapter, Throttle Actuator, Base	
40	1002924	1	Plate, Air Cleaner Mount	
41	984909-01	1	Filter, Fuel	
–	988671-01	1	Filter, Oil	Not Shown
–	988671-10	1	Belt	Not Shown
–	988671-10	1	Alternator	Not Shown
–	988671-09	1	Starter	Not Shown
42	1002917-34	1	Gasket, Engine Exhaust Manifold	
–	1002917-35	1	Cable, Battery	Starter to Battery Pos.
–	1002917-36	1	Cable, Battery	Engine to Ground Post

Paver Leveling Control (TOPCON) System 5 Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	983414-10	2	Assy Temp. Bail w/Sleeves	
2	983414-01	2	TSD Sonic Tracker II	
3	983414-08	2	Coil Cord, 15ft CA to Tracker	
4	983414-02	2	TSD 3 Conn SS Paver Box	
5	983416-01	2	Cable J-Box to Control Box	
6	983414-14	2	Slope Cable 5 Foot	
7	983414-13	2	Slope Sensor	
8	984596	2	Assy, Cord Remote (TOPCON)	
9	985866-02	2	Cable, AM Module Only	
10	985866-01	2	AM Module Only	
11	9090-1125SRV	2	Bracket, Z Arm, TOPCON	
12	920070	2	Thumb Screw, .375-16 x 1.00	
13	851575SRV	2	Pivot Mount, TOPCON/Spectra Physics	
14	300060	2	Handle, Bolt, .625-11	
15	102-606-1A	4	CSHH, .625-11 x .250 GR5	
16	119-7	4	Washer, Flat, SAE, .625	
17	851578	2	Bracket, Sonic Tracker	
18	119-7	2	Washer, Flat, SAE, .625	
19	102-617-1A	2	CSHH, .625-11 x 4.00 GR8	
20	983414-09	2	Assy CB Bracket	
—	988288SRV	1	Dual Grade & Slope	System 5 Kit, Not Shown
—	988409SRV	1	Dual Grade Control	System 5 Kit, Not Shown
21	986609	2	Coiled Cord, Remote TOPCON	

Main Valve Manifold Detail Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1003159	1	Mount, Main Valve, LH	
2	851161	1	Valve Assy, 9 Section, w/Float	
3	910054	6	Valve Section, Spring Return	
4	910052	2	Valve Section, Detented	
5	910054FLS	1	Valve Section, Float	
6	901014	6	Spring Center Kit	
7	141050	1	Float Positioner Kit	
8	901007	2	Detent Kit	
9	910062	10	Seal Kit, Valve Section	
10	910059	9	Seal Kit, Valve Spool	
–	910065	A/R	Seal Kit, Relief Valve	Not Shown
11	910055	1	Cover, Valve Inlet	
12	910056	1	Cover, Valve Outlet	
13	141040	9	Cap, Valve Spool Cover	
14	901002	1	Power Beyond Sleeve	
15	901009	1	Valve, Main Relief	
16	141020	9	Valve & Plug, Anticavitation	
17	910058	1	Bracket, Valve Lever Mount	
18	901010	9	Link Assy, Valve Lever	
19	350080	9	Pin, Clevis	
20	910060	9	Handle, Vertical	
21	852648	9	Tab, Auger Valve Reverse Lockout	
22	72371	1	FITT, Test 04MP-02PD	

CAT Sheet Metal Cover - High Deck Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	988115	1	Toeboard	
2	853645	1	Plate, Conveyor Flap	
3	853654	1	Bracket, Floor Board Mount	
6	853669	1	Plate, Bottom Engine	
7	853823	1	Grating, Walkboard	
8	980751	1	Plate, Cover	
9	1003420	1	Assy, Engine Cover, CAT	
10	1000850	1	W/M, RH Engine Cover, W/Defl	
11	988117	1	Engine Cover	
12	987633	1	Cover, Access Hole RH	
13	988118	1	Cover, Right Side SM	
15	988218	1	Bar Right Hood Support	
16	988226	1	Bracket For SM	
17	989469SRV	1	Assy, Beacon Light Post	
18	980642	1	Angle, 2.00 x 2.00 x .250	
19	1002924	1	Plate, Air Cleaner Mount	
20	987639	1	Hinge, (2) Thru Holes	
22	1003131	1	Assy, Tail Piece	
–	920120	4	Cable, Lower Controls	
23	980460	1	Lever, Fastener	
–	35560	2	Key, Vandalism Cover	
24	988116	1	SM Driver Side	
25	211748-02	1	Strobe Light, Amber	
26	160040A	2	Work Light	
27	985518	1	Term. Battery, POS. Remote Mount	
–	986804	1	Cable, Battery	Battery Post to Jump Start Post
–	986806	1	Battery, 12V, 1125 CCA	Not Available, buy locally
–	5804	1	Cable, Battery	Switch to Bat. Neg or Gnd Post
28	SW29	1	Switch, Battery Disconnect	
29	102-105-1A	A/R	CSHH, .312-18 x 1.00	
30	118-2	A/R	Washer, Lock, .312	
31	120-2	A/R	Washer, Flat, .312	
32	102-205-1A	A/R	CSHH, .375-16 x 1.00	
33	120-3	A/R	Washer, Flat, .375	
34	143-3	A/R	Nut, Lock, .375	
35	102-409-1A	A/R	CSHH, .500-13 x 2.00	
36	119-5	A/R	Washer, Flat, .500	
37	118-5	A/R	Washer, Lock, .500	

Instrument Panel Dash - Controls and Gauges Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1002032	1	Gauge, 3 in 1: Tach, Oil, Water Temp	LH Auto Augers
2	31983	1	Light, Red, Dash, .500 Hole	
3	1002033	1	Fuel Gauge	
4	1002034	1	Volts Gauge	
5	1002035	1	Hourmeter Gauge	
6	851391	1	Switch, Toggle, SPST, 2-POS	
7	851391	1	Switch, Toggle, SPST, 2-POS	
8	851391	1	Switch, Toggle, SPST, 2-POS	
9	851391	1	Switch, Toggle, SPST, 2-POS	
10	851391	1	Switch, Toggle, SPST, 2-POS	
11	851391	1	Switch, Toggle, SPST, 2-POS	
12	39146-14	1	Ignition Switch w/Heat Start	
13	851391	1	Switch, Toggle, SPST, 2-POS	
14	851391	1	Switch, Toggle, SPST, 2-POS	
15	982249	1	Switch, Push Button	
16	900030	2	Switch, Toggle	
17	900030	2	Switch, Toggle	
18	900080	1	Switch, Toggle, 3-Pos, Rev-DPDT, MOM	
19	39146-14	1	Ignition Switch w/Heat Start	
–	982008-04	2	Ignition Key, Replacement	Not Shown
20	31985	1	Light, Green, Dash, .500 Hole	
21	851391	1	Switch, Toggle, SPST, 2-POS	

Extension Single Adjust RH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	859395SRV	1	Assy, Insert, Propane, RH	
2	851182SRV	1	Assy, Heat Box, Propane, Single Adj	
4	851185SRV	1	Ext Adj Screw Assy	
5	870030	1	Bearing, Screed Flight Screw	
6	870279	1	CSSH, .375-16 Shldr Socket	
8	854447	1	Rnd, .688 x 43.50, CRS	
12	988291	1	Assy, Heat Box Cover, Single Adj	
13	118-3	22	Washer, Lock, .375	
14	81068	22	CSHH, .375-24 x 1.00, GR8	
15	987396	1	Nut, .875-9 UNC-2B Nylon Lock	
16	851180RSRV	1	Guard, RH Screed Ext Hinge	
17	860048	3	CSHH, .437-14 x 1.25, GR5	
18	116-4	3	Nut, .437-14 Hex	
19	851600-1	A/R	Ext. Burner Pipe	

Vibrator Assembly RH Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	982965RSRV	1	Assy, Vibrator RH	
2	982965R-1	1	Vibrator Housing, RH	
3	880030	1	Coupling Half, 1.00, Vibrator Shaft	
4	280040	1	Insert, 3-Jaw Coupling	
5	280030	1	Coupling Half, Tack Pump Motor	
6	983405	1	Hyd. Motor, Screed Vibrator	
7	250150	2	Bearing, Conveyor Pulley/Vibrator Shaft	
8	880062	1	Shaft, Vibrator Eccentric	
9	880071	1	Plate, Vibrator Housing	

Extension Double Adjust LH Assembly - Propane Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	984305-1	1	Assy, Insert, Elec, LH	Without Slope
2	988319SRV	1	Assy, Heat Box, Elec, 4 Adjust	
3	1002735	1	Hinge Assy	
4	985556	1	Assy, Slide Adjust	
5	870030	4	Bearing, Screed Flight Screw	
6	851185SRV	1	Ext Adj Screw Assy	
7	870279	4	CSSH, .375-16 Shldr Socket	
8	1002715	1	Adjuster Mount	
9	143-3	4	Nut, .375-16 Lock	
10	854447	1	Rnd, .688 x 43.50, CRS	
11	987890SRV	1	Element, Heater, Screed, 40”	
11a	985699-03	1	Wiring, Element, Heater Pigtail	
12	985120	1	Bar, .250 x 1.50 x 36	
13	985123	4	Clamp, Element, Screed Ext	
14	988292	1	Assy, Heat Box Cover, 4 Adj	
15	851180LSRV	1	Guard, LH Screed Ext Hinge	
16	80230	3	CSHH, .375-16 x 2.00	
17	119-4	3	Washer, Lock, SAE, .375	
18	118-1	22	Washer, Lock, .250	
19	80185	22	CSHH, .250-20 x 1.00	

Screed Pull Arms RH Assembly Parts List

Item No.	Part Number	Qty.	Description	Remarks
1	1000757SRV	1	Assy, Screed Arm, RH	
2	1002728SRV	1	Flight Screw Assy	PN 851370 is same w/o height rod
3	870030	1	Bearing, Screed Flight Screw	
4	870276	2	Hand Grip, Flight/Depth Screw	

Description	Part Number	Figure Number	Item Number
Assy, Screed, Citrus, Tank, Elec	987099SRV	10-47	1
Assy, Screed, Citrus, Tank, Propane	985777SRV	10-47	1a
Assy, Side Wing, LH	980702	10-4	2
Assy, Side Wing, RH	980703	10-4	1
Assy, Slide Adjust	985556	10-32	4
Assy, Slide Adjust	985556	10-33	4
Assy, Slide Adjust	985556	10-41	4
Assy, Slide Adjust	985556	10-42	4
Assy, Spacer Auger Shaft	982945	10-5	11
Assy, Tail Piece	1003131	10-21	30
Assy, Tail Piece	1003131	10-23	22
Assy, Tank Fuel	1003288SRV	10-7	7
Assy, Tank Hydraulic	1003117SRV	10-7	5
Assy, Tank, Hyd, Adj	1003117	10-19	15
Assy, Tee Elec Steer	984343	10-17	14
Assy, Tee Elec Steer	984343	10-18	11
Assy, Tee Elec Steer	984343	10-19	2
Assy, Vibrator LH	982965L	10-35	1
Assy, Vibrator RH	982965RSRV	10-36	1
Assy, Walk Board	987056	10-37	1
Assy, Weldment, Undercarriage, L.H.	1003072	10-1	15
Assy, Weldment, Undercarriage, R.H.	1003073	10-1	16
Auger Assy Complete, LH	981692L	10-5	19
Auger Assy Complete, RH	981692R	10-5	20
Auger End Mount, LH	860051HDLSRV	10-5	9
Auger End Mount, RH	860051HDRSRV	10-5	8
Auger Flight, LH, 12”	981700L	10-5	16
Auger Flight, RH, 12”	981700R	10-5	15
Auger Shaft w/Sprocket, Spacer & Bearing	981691	10-5	10
Ball Joint, .375, Male, w/Stud	982157	10-9	35
Ball Joint, .375, Male, w/Stud	982157	10-10	36
Bar Jack, Screed Slide	988556	10-29	12
Bar Jack, Screed Slide	988556	10-34	12
Bar Right Hood Support	988218	10-21	20
Bar Right Hood Support	988218	10-22	20
Bar Right Hood Support	988218	10-23	15
Bar Right Hood Support	988218	10-24	15
Bar, .125 x 2.00 x 44.50, Notches	855562	10-29	13
Bar, .125 x 2.00 x 44.50, Notches	855562	10-34	13
Bar, .250 x 1.50 x 36	985120	10-39	10

Description	Part Number	Figure Number	Item Number
Ext Adj Screw Assy	851185SRV	10-30	4
Ext Adj Screw Assy	851185SRV	10-31	4
Ext Adj Screw Assy	851185SRV	10-32	6
Ext Adj Screw Assy	851185SRV	10-33	6
Ext Adj Screw Assy	851185SRV	10-39	4
Ext Adj Screw Assy	851185SRV	10-40	4
Ext Adj Screw Assy	851185SRV	10-41	6
Ext Adj Screw Assy	851185SRV	10-42	6
Ext. Burner Pipe	851600-1	10-30	19
Ext. Burner Pipe	851600-1	10-31	19
Ext. Burner Pipe	851600-1	10-32	20
Ext. Burner Pipe	851600-1	10-33	20
Extension, 6' Left Side	851634LSRV	10-25	3
Extension, 6' Right Side	851634RSRV	10-25	4
Extension, Front Bumper	852664	10-1	51
Extension, Screed Arm	851206SRV	10-12	1
F/W Coupling w/Pmp	1002917-05	10-10	5
Fan Guard	986537-44	10-9	30
Fan Shroud	986537-40	10-9	27
Fan, Kubota	986537-19	10-9	19
Filler Neck	140030FN	10-7	2
Filter Element, Air Primary	38385-01	10-9	–
Filter Element, Air Primary	38385-01	10-10	–
Filter Element, Air Safety	38385-02	10-9	–
Filter Element, Air Safety	38385-02	10-10	–
Filter Element, Fuel	982080-02	10-9	–
Filter Oil Kubota	986537-03	10-9	–
Filter, Element, Charge/Return	290030	10-7	13
Filter, Fuel	984909-01	10-10	41
Filter, Fuel, In Line	986537-31	10-9	–
Filter, Head, Charge/Return	290010	10-7	12
Filter, Hydraulic	36123	10-7	6
Filter, Oil	988671-01	10-10	–
FITT	5406-12-8	10-1	42
FITT	984909-10	10-10	–
FITT, 90 02Mp-05Hb	988673-18	10-9	–
FITT, 90 06MJ-08MP	34536	10-11	13
FITT, 90 10MJ-08MB	6801-10-8	10-1	39
FITT, Bspp To Pipe, .250-18	38826	10-10	–
FITT, Str 02Mp-05Hb	988673-19	10-9	–

Description	Part Number	Figure Number	Item Number
Safety Prop, Hopper	987264SRV	10-4	17
Scraper, Conveyor	851128SRV	10-3	33
Screed Non-Sloping Overview	Screed TOC 1	10-28	–
Screed, 8510B, Elec, HD, No Slope, Dbl Adj	1003619	10-29	–
Screed, 8510B, Elec, High Deck, No Slope	987065	10-29	–
Screed, 8510B, Elec, LD, No Slope, Dbl Adj	1003620	10-29	–
Screed, 8510B, Elec, Low Deck, No Slope	987049	10-29	–
Screed, 8510B, LP, HD, No Slope, Dbl Adj	1003621	10-29	–
Screed, 8510B, LP, High Deck, No Slope	987066	10-29	–
Screed, 8510B, LP, LD, No Slope, Dbl Adj	1003622	10-29	–
Screed, 8510B, LP, Low Deck, No Slope	987050	10-29	–
Screw, Electric (6.00")	851518	10-12	5
Screws	900076	10-3	39
Seal	Reference	10-49	4
Seal Clamp 2.50	34679	10-10	25
Seal Kit	980607-02	10-2	–
Seal Kit	610110-01	10-4	–
Seal Kit	930070-01	10-16	–
Seal Kit, 2.00 Cylinder	851436-01	10-6	–
Seal Kit, 2.50 Cylinder	910170-01	10-6	–
Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851191-01	10-48	–
Seal Kit, Cyl, Hyd, 2.00 x 12.00/30.00 x 1.25	851191-01	10-48	–
Seal Kit, Hopper Wing	840020-01	10-4	–
Seal Kit, Hyd. Cyl.	811331-01	10-1	21
Seal Kit, Hyd. Motor	1001027-01	10-3	–
Seal Kit, Hyd. Motor	1001027-01	10-5	–
Seal Kit, Hyd. Motor	1001027-01	10-6	–
Seal Kit, Relief Valve	910065	10-20	–
Seal Kit, Valve Section	910062	10-20	9
Seal Kit, Valve Spool	910059	10-20	10
Seal, Hyd Motor/Pump	851489A	10-1	45
Seal, Hyd Motor/Pump	851489A	10-2	25
Seat Assy W / Armrest, White	360010	10-37	5
Section, Valve (Augers (Detented)	910052	10-19	–
Section, Valve (Cylinders) (Spring Return)	910054	10-19	–
Selector Valve, Conveyor	910120	10-16	–
Selector Valve, Conveyor	910120	10-19	9
Selector Valve, Vibrator	910080	10-19	8
Sending Unit, Fuel Tank	140040	10-7	8
Sending Unit, Water Temp, Kubota	986537-50	10-9	–

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