LB/P

A LeeBoy Company

Operations, Service, and Parts Manual

LB Performance RW85 Road Widener

Manual No. 1019318-02

This manual applies to Serial Number 177628 and above.

Thank you for purchasing the LB Performance Model RW85 Road Widener. We wish you many years of safe and efficient operation of your Road Widener.

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

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

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

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

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

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

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

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

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

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

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

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

- Drive the machine with care, ensuring speed is compatible with road and climate conditions. Use extra caution on rough ground, slopes and while turning.
- Be alert for hazards and obstructions such as ditches, trees, cliffs, overhead power lines, and areas where there is danger of a slide.
- Be aware and understand job site traffic flow patterns.
- Obey flagmen, road signs and traffic signals.
- Watch for bystanders. Never allow anyone near the machine during operation.
- Operator must know how to use signaling devices and understand which circumstances require use of each signal. Use tail lights, slow moving vehicle signs, and warning beacon as needed when traveling on public roads. It is recommended that you always drive with at least one escort vehicle to and from job sites.
- DO NOT tow the machine, except to remove from road or load onto a trailer.
- When moving the machine, adjust speed and direction of travel for the terrain and ground conditions present. Always consider adjusting travel speed to match ground conditions.
- Only trained personnel should operate this machine. NEVER allow anyone who lacks comprehensive training to operate or perform maintenance on this machine.
- Use extra care when attaching and lifting strike-off components. If using lifting gear, ensure it is in good working condition and adequate for component weight.
- Keep all handles, ladder rungs, operator platform and handrails free of mud, dirt, snow and ice to prevent falls.

Storage Precautions

- Store machine in an area away from human activity.
- DO NOT permit children to play on or around the machine.
- Make sure the unit is stored on a surface that is firm, level, and free from debris.
- Store the machine inside a building or cover securely with a weather-proof tarpaulin.

Poor Visibility

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

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

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

Contact your authorized dealer for additional lighting packages if working under these conditions.

Maintenance Precautions

- DO NOT attempt repairs unless trained to do so. Refer to manuals and contact your authorized dealer for service assistance.
- Securely block the machine and any components that may fall before performing maintenance. Block any working components to prevent unexpected movement while repairs are being made.
- Always wear safety glasses and other required safety equipment when servicing or making repairs.
- Disconnect battery before working on the electrical system.
- Avoid lubrication or mechanical adjustments while the machine is in motion or the engine is operating.
- Never make repairs on pressurized components such as fluid lines, fuel system, or mechanical items until the pressure has been relieved.
- When servicing or replacing hardened pins, use a brass drift or other suitable material between the hammer and pin.
- Keep brakes and steering system in good operating condition.

Table 2-3. Fuel and Lubricant Specifications

ITEM	SPECIFICATION
Engine Oil	15W-40, API CH-4, CI-4
Hydraulic Oil	All Weather All Temperature AW32 or Equivalent
Fuel	Ultra-Low Sulfer Diesel (ULSD)
Grease	Shell Avania EP Grease or Equivalent

Table 2-4. System Capacity Specifications

ITEM	SPECIFICATION	
Fuel	55 gal (208.2 L)	
Hydraulic Oil Tank	61 gal (231 L)	
2-Speed Gear Box	.5 gal (2 L)	
Engine Items	**2.8 Standard Engine**	**3.8 Optional Engine**
Engine Lubrication Oil Refill Capacity	9.4 qts (8.9 L)	15.4 qts (14.6 L)
Engine Coolant	3.4 gal (12.9 L) Glycol-Based, Red, Extended Life	5.25 gal (19.9 L) Glycol-Based, Red, Extended Life

Table 2-5. Performance Specifications

ITEM	SPECIFICATION
Travel Speed	0 - 12 mph (0 - 19.3 kph)
Working Depth	12 inches (30.4 cm) above or below grade.
Slope Control	+/- 16%

Table 2-6. Electrical Specifications

ITEM	SPECIFICATION
Battery	12 VDC Maintenance-Free, Negative Ground
Cold Cranking Amps (CCA)	950 CCA
Alternator Output Amperage	120 Amps
Alternator Fan Belt Tension	Automatic belt tension mechanism keeps serpentine belt under tension at all times.

Table 2-7. Hydraulic Pressure Specifications

ITEM	SPECIFICATION
General Purpose Pump	2465 psi (169.9 Bar)
Conveyor and Cylinders	2465 psi (169.9 Bar)
Propel Pump	5000 psi (344.7 Bar)
Charge Pressure	320 psi (22 Bar)

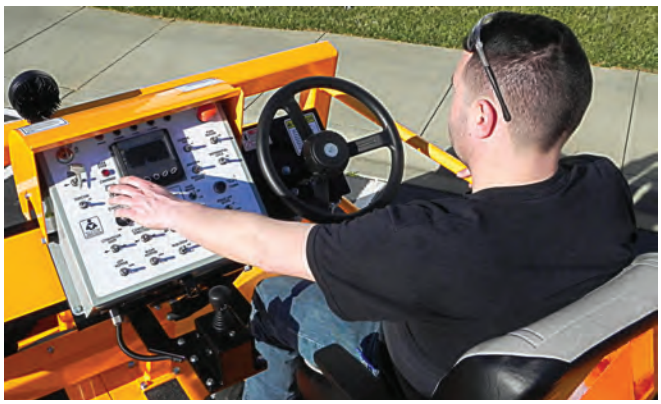
Table 2-8. Drive System Specifications

ITEM	SPECIFICATION
Transmission	Electric 2-Speed Motor, Hydraulically Controlled, Fully Reverse in Both Speed Ranges.

COMPONENTS OVERVIEW

The LB Performance RW85 Road Widener is a mid-sized, self-propelled machine primarily used for road shoulder construction and road widening projects. This machine can place a variety of materials, including asphalt, screened gravel, milled material, crusher run and aggregate. Pavement edge “drop-offs”are a road maintenance and road hazard issue on many highways, which can be more difficult to pave due to irregular grade and slope. The RW85 road widener is specifically designed for adding a shoulder or other narrow strip of pavement (or aggregate) onto an existing road since it can lay material uniformly one foot above or below grade at an angle of 16 degrees up or down. A properly constructed road shoulder enhances vehicular safety, facilitates emergency vehicle pull-over, adds support to make pavement structurally stronger, facilitates drainage and significantly reduces maintenance costs.

Become familiar with the machine’s components before operating.



Operator Platform

The operator platform allows easy and convenient access for machine controls and paving functions,on a dual operator platform. The main control panel slides to either side of the platform, featuring the PV480 digital display controller, work function switches, and a vandalism cover to protect control panel components and prevent vandalism.

Engine

The RW85 Road Widener is equipped with a Cummins QSF2.8 Tier 4F diesel engine. The air cleaner removes fine particles such as dust, sand, and chaff. The fuel filter removes contaminants from diesel fuel before it flows into the injection pump. A hydraulic fan removes heat, saves horsepower and reduces noise.

This engine is the latest in engine technology. Tier 4 engines comply with emission requirements established by the U.S. Environmental Protection Agency (EPA) to reduce diesel particulate matter (DPM) and other toxins released into the air. Advanced emission-control devices and low-sulfur fuel requirements combine with new DPF (Diesel Particulate Filter) after-treatment methods.

Refer to the Engine Operator’s Manual accompanying your machine for additional engine information.

The engine cover locks to prevent unauthorized access and protects engine and associated components from the elements.

2. Adjust the driver's seat using the adjustment knob on front of the seat and fasten seat belt.
3. Adjust mirror.
4. Ensure the Emergency Stop (E-Stop) button is disengaged.
5. Ensure park brake is engaged or the engine will not start.
6. Place joystick in the NEUTRAL (center) position and the Run/Stop switch in the STOP position.
7. Insert key into the ignition, turn clockwise to the START position and release. The PV480 digital display controller will activate and begin "booting" for a few seconds. ***(Page 4-8)***
8. After the digital display controller boots, turn key clockwise to start the engine.

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

NOTICE **Using starting additives, such as ether, is not recommended as severe engine damage can occur.**

9. Allow engine to warm up a few minutes before moving the machine for more efficient operation.

NOTICE **Be familiar with all the controls and the PV480 digital display information on the following pages before driving and operating the road widener.**

Stopping the Engine

1. Move joystick to the NEUTRAL position.
2. Stop machine motion by pressing on the brake pedal.
3. Engage the park brake switch to the ON position.
4. Turn ignition key counter-clockwise to the OFF position and remove key.

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

NOTICE **Before driving on public roads, check state and local laws that may apply to industrial self-propelled machines. Additional lights, mirrors, slow-moving vehicle emblems, or reflectors may be required.**

DRIVING THE ROAD WIDENER

The LB Performance RW85 Road Widener is powered by a diesel engine with a hydrostatic drive system that propels the machine at varying speeds with dynamic braking action. The operator propels the machine using the joystick, steers with the steering wheel, and stops by applying the foot brake. **(Figure 4-3)**

NOTE: If paving or moving material on the left side with the optional left strike-off assembly, simply slide the main control panel across to that side.

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

⚠WARNING **Be aware of the terrain and driving conditions. Adjust speed accordingly.**

Figure 4-3. Operator Control Station

1 - Control Panel

2 - Forward/Reverse Joystick

3 - Joystick Locking Collar

4 - Steering Wheel

5 - Foot Brake Pedal

- The park brake must be disengaged.
- The joystick must be in the neutral position and the Run/Stop switch must be in the STOP position. **(Figure 4-4)**
- The Motor 2-Speed switch is set to LOW gear by default (OFF position). Work ONLY in low gear. **(Figure 4-4)**

NOTE: You can only turn the 2-Speed Transfer switch on and off when the machine is at a complete stop, the joystick is in the neutral position, and the park brake is engaged.

Oscillating Push Rollers

The connection between the material truck to the road widener hopper while paving or spreading other material is the first step for efficient and successful road surfacing. It is the operator's job to guide the material truck as it backs up to the hopper, and signal the driver when to stop loading the asphalt material. Oscillating push rollers provide the means for the truck to be held in close proximity to the hopper, with the oscillating feature compensating for minor directional misalignment between the two. **(Figure 4- 24)**

NOTE: Make sure to chain the tailgate on the material truck to prevent damage to the conveyor belt.

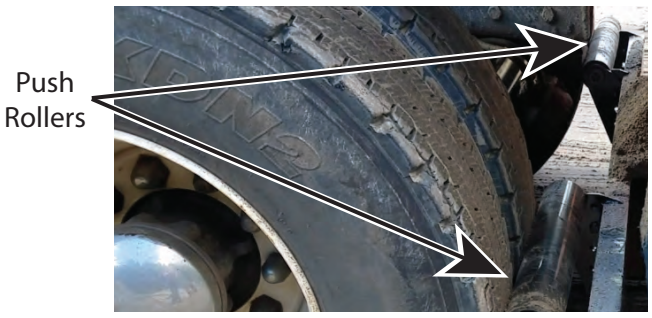


Figure 4-24. Push Roller and Material Truck Tire

The truck must be compatible to prevent any interruption of material supply. Always check a truck bed in relation to the hopper before beginning road construction. Adjust truck push rollers to the appropriate height needed for asphalt truck **(Figure 4-25)**:

- There are five (5) set heights on the truck push rollers.
- Remove bolts on both sides of each push roller, align with either of the five slots on the frame at desired height, and reinstall bolts.
- Both push rollers should be at the same height to prevent damage.

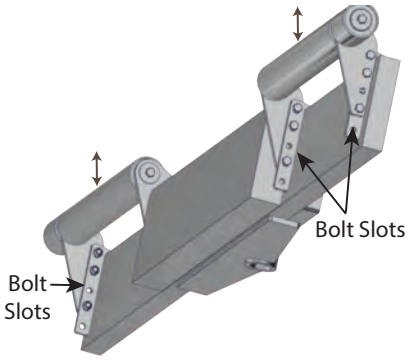


Figure 4-25. Adjustable Push Rollers

Hopper

Material is dumped into the hopper where the conveyor at the bottom moves it to the strike-off. The hopper wings are hydraulically opened so the hopper can be filled with material. The RW85 Road Widener features hopper wings that can be individually opened and closed to facilitate material flow onto the conveyor when not connected to a material truck. **(Figure 4-26)**

Figure 4-26. Right Hopper Wing Closed with Left Hopper Wing Open

⚠WARNING Ensure no people, equipment or other obstacles are in or near the hopper when raising or lowering the hopper wings to prevent injury or damage to the machine.

⚠WARNING DO NOT close either hopper wing until the material truck has moved completely away from the machine.

A hopper gate on each wing must be manually opened and closed for receiving and discharging material. The gates slide up and down. Be sure the gate is closed when receiving material, and only the strike-off side gate is open when discharging material. **(Figure 4-27)**

Figure 4-27. Manual Hopper Gates

7. Push the clevis pin back down into place.
8. Secure the strike-off using the chain lock on the undercarriage D-Ring. **(Figure 4-41)**
    - Insert strike-off pin into the blade joint as shown in **Figure 4-40**, then secure with cotter pin.
    - Ensure the strike-off assembly is secure before moving in either direction.

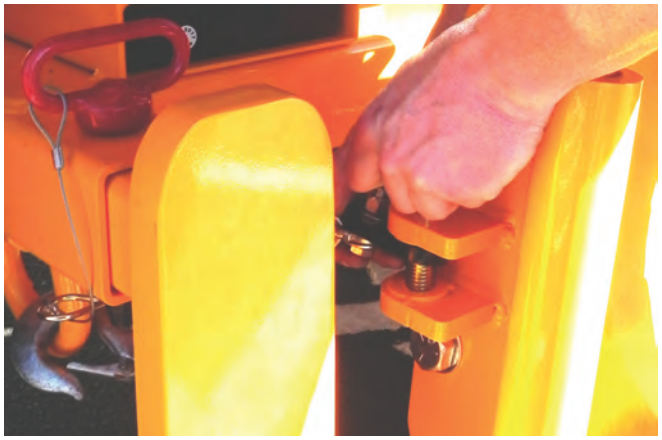


Figure 4-41. Securing Strike-Off

Figure 4-42. Road Shoulder Work with the RW85 Road Widener

STARTING TO WORK

The LB Performance RW85 Road Widener handles a variety of road widening materials and capabilities. Equipped with hydraulic controls and a conveyor that discharges on both sides, it can be operated to spread material from either side to meet any job site requirement. The RW85 strike-offs can surface widths up to eight (8) feet (2.4- meters) at materials heights up to one foot (.305 meter) above or below grade, with the versatility of site preparation for spreading aggregate if needed, then paving road shoulders or other widening projects.

This road widener is capable of placing materials to include:

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

Before starting the construction project, keep these items in mind:

- Always pave or spread material in low gear. The Motor 2-Speed switch should be in the OFF position (low gear by default.)

MAINTENANCE SCHEDULE

Before performing any maintenance procedures on the LB Performance RW85 Road Widener, review the safety information in **Section 1**.

⚠WARNING **Always wear heat-resistant gloves when handing hot components.**

Following the maintenance schedules and procedures will maintain the machine in top operating condition.

Refer to the Engine Operator's Manual accompanying your machine for more detailed engine service information.

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

Table 5-1. Periodic Maintenance Schedule

SYSTEM	ITEM	Every 10 Hours (Daily)	Every 50 Hours (Weekly)	Every 100 Hours (Monthly)	Every 250 Hours (Quarterly)	Every 500 Hours (Semi-Annual)
Mechanical	Check conveyor belt and chains. Adjust or replace if needed.	X				
	Check tire pressure. Add more air if needed.		X			
	Grease steering axle.		X			
	Grease strike-off pivots and bearings.		X			
Hydraulic	Check hydraulic oil level. Add if needed.	X				
	Replace hydraulic oil and charge filter.				X	
	Check planetary hub gear oil. Add if needed.				X	
	Change planetary hub gear oil.					X
	Check drive axle oil. Add if needed.				X	
	Change drive axle oil.					X
Engine	Check oil level - **Change engine oil at initial 50 hours of operation.**		X		X	
	Replace engine oil and oil filter element.					
	Check engine coolant. Add more if needed.	X				
	Change engine coolant.					X
	Check air filter indicator gauge. Clean or replace air filter elements if indicator is red.	X				
	Change air filter elements.				X	
	Check engine drive belt. Tighten or replace if needed.					X
Electrical	Check battery, cables and connectors.	X				
	Service battery.					X
Fuel	Replace fuel filter.				X	
	Drain fuel water separator.		X			

Radiator Coolant

Check the radiator coolant level daily to ensure the radiator is full and that no debris is present that could block the system and cause overheating. (Compressed air can be used to remove any debris from the radiator.) You can access the radiator surge tank fill cap behind the radiator grill at the rear of the machine. **(Figure 5-11)**

When the engine is cold, the coolant level should cover the radiator core. If low, fill with a solution of 50 percent water and 50 percent ethylene-glycol antifreeze.

The coolant system should be drained and replaced at least once a year to prevent rust and scale from possibly building up and clogging the system. Any commercial flushing agent can be used. (See your Engine Operator Manual for more information).

⚠WARNING DO NOT remove the radiator cap while the engine is hot. The radiator is under pressure and the hot water will cause serious injury.

⚠WARNING Avoid prolonged and repeated skin contact with used antifreeze as contact can cause skin disorders or injury. Wash thoroughly after any contact.

To check the radiator or add coolant:

1. Remove the radiator grill to access the radiator surge tank cap. **(Figure 5-11)**
2. Remove the cap to check ONLY WHEN UNIT IS COOL. Coolant level should be visible.
3. Visually check coolant level sight glass. If coolant level is low, add coolant. DO NOT overfill.

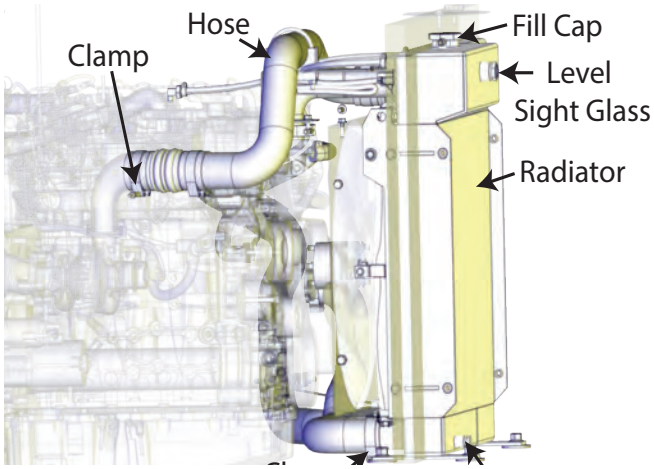


Figure 5-11. Radiator (Left Side)

Replace Radiator Hoses

Radiator hoses should be replaced if worn or frayed. **(Figures 5-11 and 5-12)** Replacement parts and hose schedule are listed in **Section 7, Illustrated Parts List (IPL).**

⚠WARNING This procedure should only be performed when the equipment is not operating.

1. Turn off ignition, remove key, and allow the engine to cool down before proceeding:
2. Remove the radiator surge tank fill cap.
3. Remove drain plug and drain radiator into a suitable container (5.5 gallons or 20.8 liters). **(Figure 5-12)**
4. Remove upper hose first by loosening the hose clamps and disconnect. If clamps are not damaged, retain for installation. **(Figures 5-11 and 5-12)**
5. Remove lower hoses by loosening the hose clamps and disconnect. If clamps are not damaged, retain for installation.
6. Install new lower hoses first, then upper hose, ensuring clamps are tight.
7. Refill with coolant and reinsert fill cap.

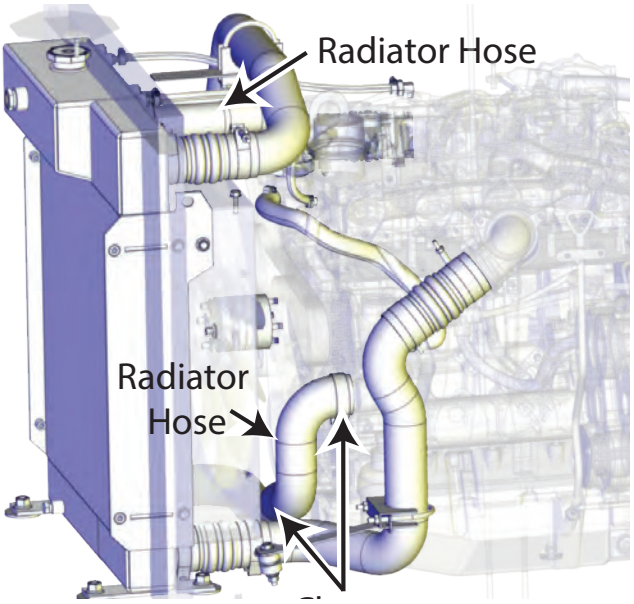


Figure 5-12. Radiator (Right Side)

5

To correctly apply dielectric grease:

- Apply a thin, visible, uniform coat using **ONLY** high-quality dielectric grease (Dow Corning 4 or equivalent) across the **MALE** connector as shown in **Figure 5-24.**
    - Coating too thin may not fill the gaps between pins.
    - Coating too thick may prevent proper connection or force pins or seals out. **(Figure 5-25)**
- Plug in the male connector.

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

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

Figure 5-25. Incorrect Application of Dielectric Grease

CHASSIS AND MISCELLANEOUS

Tires

The tires should be maintained at the proper tire pressure and checked daily. **(Figure 5-26)** Tires should be maintained at 90 - 110 PSI. However, various operating speeds, road conditions, material truck size, tire options and other operating conditions may require different tire pressure.

⚠WARNING Only a qualified tire specialist should service the tires.

- Use 385/65R Duplex Radial tires on the rear.
- Use 425/65R 22.5 Duplex Radial tires on the front.
- The lug nuts on the front and back tires are M22 x 1.5.

If a tire appears to be low, measure the pressure to be sure of proper inflation. Protect tires from exposure to petroleum products and other chemicals.

- Use proper tire mounting equipment and experienced personnel for tire repair service.
- Carefully inspect any tire and rim assembly for damage before inflating tire.

Figure 5-26. Properly Inflated Tire

Conveyor Chain Tension Slack Adjustment

The conveyor chains will need periodic adjustment. Generally, the slack of a roller chain should be on the lower side. **(Figure 5-38)**

Adequate slack (S) is about four (4) percent of the span for normal drives, but the slack should be about two (2) percent of the span for the auger chains:

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

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

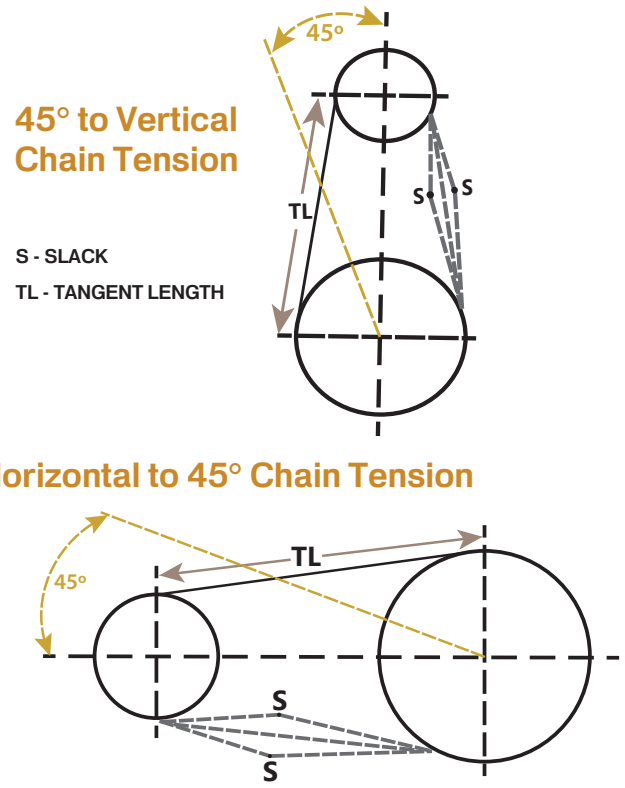


Figure 5-38. Chain Slack Adjustment for Proper Tension

5

REQUIRED MID-SPAN MOVEMENT

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

FAULT CODE	SPN	FMI	DESCRIPTION
2961	412	15	Exhaust gas recirculation temperature data valid but above normal operating range. Least severe level.
2962	412	16	Exhaust gas recirculation temperature data valid but above normal operating range. Moderately severe level.
2963	110	15	Engine coolant temperature data valid but above normal operating range. Least severe level.
2964	105	15	Intake manifold 1 temperature data valid but above normal operating range. Least severe level.
3136	5019	3	Engine exhaust gas recirculation outlet pressure sensor circuit voltage above normal or shorted to high source.
3137	5019	4	Engine exhaust gas recirculation outlet pressure sensor circuit voltage above normal or shorted to low source.
3186	1623	9	Tachography output shaft speed abnormal update rate.
3213	1623	19	Tachography output shaft speed received network data in error.
3326	91	9	Multiplexed accelerator pedal or lever sensor system abnormal update rate.
3328	191	9	Transmission output shaft speed abnormal update rate.
3418	191	19	Transmission output shaft speed received network data in error.
3525	84	19	Wheel-based vehicle speed received network data in error.
3526	84	9	Wheel-based vehicle speed abnormal update rate.
3527	558	19	Accelerator pedal or lever idle validation switch received network data in error.
3528	558	9	Accelerator pedal or lever idle validation switch abnormal update rate.
3555	1081	9	Engine Wait to Start lamp abnormal update rate.
3613	111	9	Coolant level sensor abnormal update rate.
3614	111	19	Coolant level sensor received network data in error.
3641	748	9	Transmission output retarder abnormal update rate.
3697	630	12	Engine control module calibration memory. Bad intelligent device or component.
3727	5571	7	High pressure common rail fuel pressure relieve valve. Mechanical system not responding or out of adjustment.
3737	1675	31	Engine starter mode over-crank protection condition exists.
3741	5571	0	High pressure common rail fuel pressure relief valve data valid but above normal operational range. Most severe level.
4642	97	0	Water in fuel indicator data valid but above normal operating range. Most severe level.
4734	701	14	Auxiliary input/output 1 special instructions.
4789	1639	0	Fan speed data valid but above normal operational range. Most severe level.
4791	1639	1	Fan speed data valid but above below operational range. Most severe level.

MAIN HARNESS (3 OF 5)

Schematic for Part # 1017602

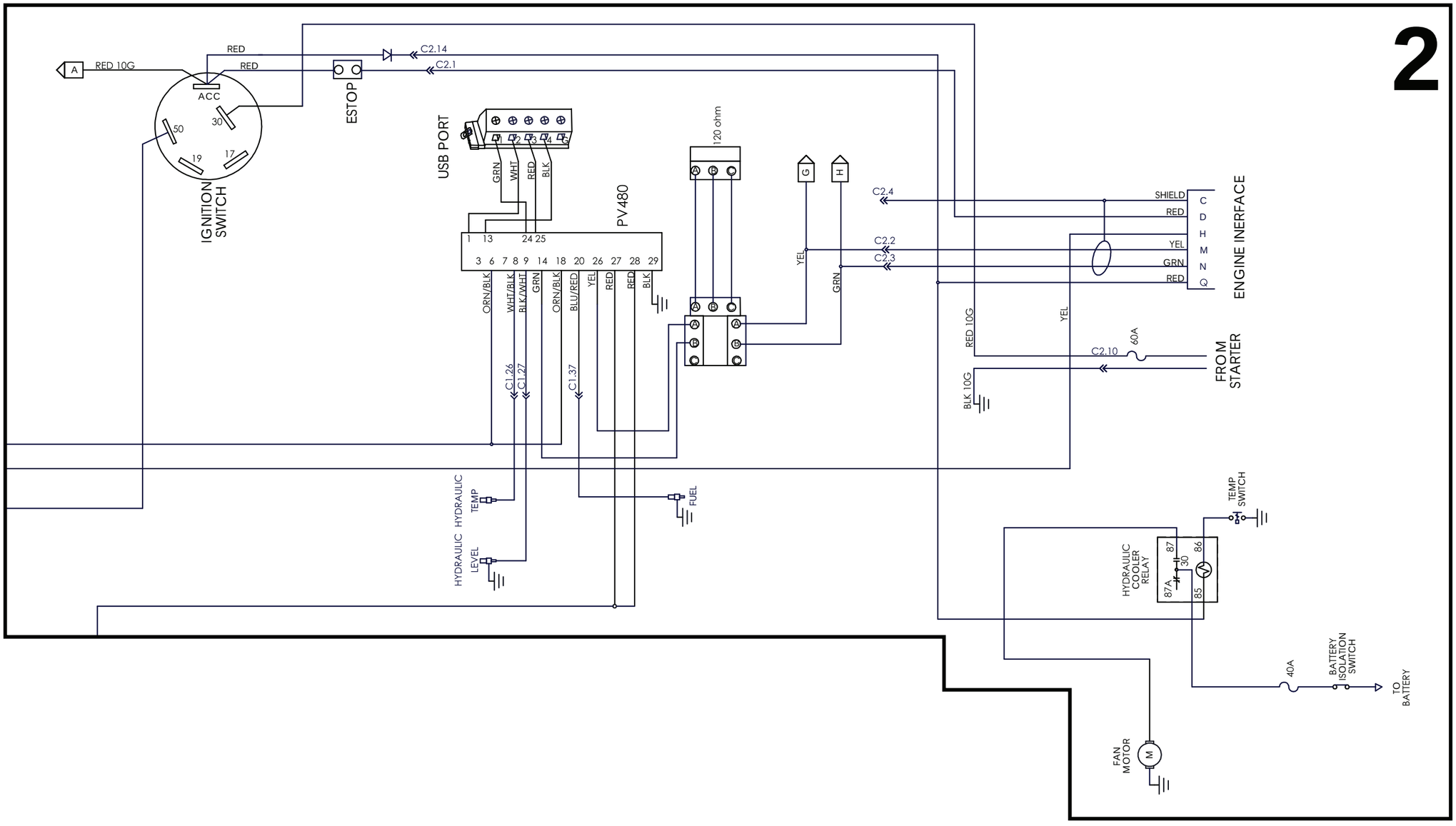
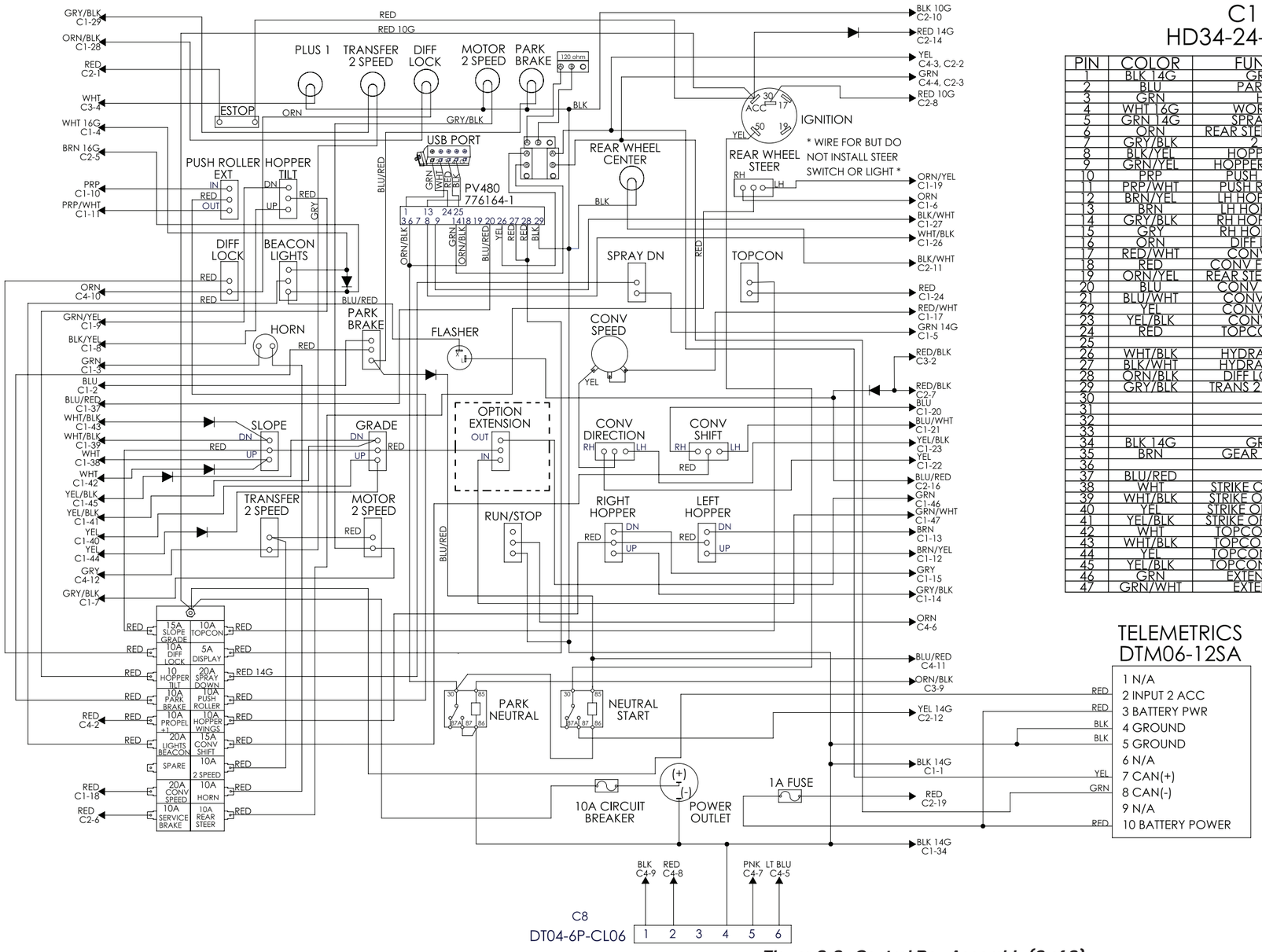


Figure 6-3. Main Harness (3 of 5)

CONTROL BOX ASSEMBLY (3 OF 3)

Schematic for Part # 1016850



C1
HD34-24-47SE

PIN	COLOR	FUNCTION	FROM
1	BLK 14G	GROUND	
2	BLU	PARK BRAKE	
3	GRN	HORN	
4	WHT 16G	WORK LIGHTS	
5	GRN 14G	SPRAY DOWN	
6	ORN	REAR STEER RT OPTION	
7	GRY/BLK	2 SPEED	
8	BLK/YEL	HOPPER LIFT UP	
9	GRN/YEL	HOPPER LIFT DOWN	
10	PRP	PUSH ROLLER IN	
11	PRP/WHT	PUSH ROLLER OUT	
12	BRN/YEL	LH HOPPER CLOSE	
13	BRN	LH HOPPER OPEN	
14	GRY/BLK	RH HOPPER CLOSE	
15	GRY	RH HOPPER OPEN	
16	ORN	DIFF LOCK ON	C3-8
17	RED/WHT	CONV FT SW IN	
18	RED	CONV FT SW POWER	
19	ORN/YEL	REAR STEER LT OPTION	
20	BLU	CONV SHIFT RIGHT	
21	BLU/WHT	CONV SHIFT LEFT	
22	YEL	CONV DIR RIGHT	
23	YEL/BLK	CONV DIR LEFT	
24	RED	TOPCON POWER	
25			
26	WHT/BLK	HYDRAULIC TEMP	
27	BLK/WHT	HYDRAULIC LEVEL	
28	ORN/BLK	DIFF LOCK LIGHT	
29	GRY/BLK	TRANS 2 SPEED LIGHT	
30			
31			
32			
33			
34	BLK 14G	GROUND	
35	BRN	GEAR BOX HI SIG	C3-7
36			
37	BLU/RED	FUEL	
38	WHT	STRIKE OFF SLOPE UP	
39	WHT/BLK	STRIKE OFF SLOPE DN	
40	YEL	STRIKE OFF GRADE UP	
41	YEL/BLK	STRIKE OFF GRADE DN	
42	WHT	TOPCON SLOPE UP	
43	WHT/BLK	TOPCON SLOPE DN	
44	YEL	TOPCON GRADE UP	
45	YEL/BLK	TOPCON GRADE DN	
46	GRN	EXTENSION OUT	
47	GRN/WHT	EXTENSION IN	

C2
HD24-24-19PN

PIN	COLOR	FUNCTION	FROM
1	RED	ECU KEY SW IN	
2	YEL	CAN(+)	C4.3
3	GRN	CAN(-)	C4.2
4			
5	BRN 16G	BEACON	
6	RED	SERVICE BRAKE PWR	
7	RED/BLK	SERVICE BRAKE SIG	C3-2
8	RED 10G	MAIN POWER	
9	BLU/WHT	NEUT BYPASS/BRK REL	C3-3
10	BLK 10G	MAIN GROUND	
11	BLK/WHT	REAR WHEEL CENTER	
12	YEL 14G	START SIGNAL	
13	ORN	PUMP FORWARD	C3-6
14	RED 14G	ACC	
15	ORN/WHT	PUMP REVERSE	C3-5
16	BLU/RED14G	TAIL LIGHTS	
17	BLU	BACK UP ALARM	C3-10
18	10G		
19	RED	TELEMETRICS POWER	

C3(BLK)
DTM06-12SB

PIN	COLOR	FUNCTION	TO
1			
2	RED/BLK	SERVICE BRAKE	C2-7
3	BLU/WHT	NEUT BYPASS/BRK REL	C2-9
4	WHT	PLUS 1 STATUS LIGHT	
5	ORN/WHT	PUMP REVERSE	C2-15
6	ORN	PUMP FORWARD	C2-13
7	BRN	GEARBOX HI SIG	C1-35
8	GRY/BLK	DIFF LOCK OUT	C1-16
9	ORN/BLK	ENGINE ENABLE	
10	BLU	BACKUP ALARM	C2-17 C2-7
11	RED	PLUS 1 POWER	C4-2
12	RED	PLUS 1 POWER	C4-2

C4(GRY)
DTM06-12SA

PIN	COLOR	FUNCTION	TO
1	BLK	PLUS 1 GROUND	
2	RED	PLUS 1 POWER	C3-11C3-12
3	YEL	CAN(+)	C2-2
4	GRN	CAN(-)	C2-3
5	LT BLU	JOYSTICK mV	C8-6
6	ORN	RUN/STOP	
7	PNK	NEUTRAL	C8-5
8	RED	SENSOR POWER	C8-2
9	BLK	SENSOR GROUND	C8-1
10	ORN	DIFF LOCK ON	
11	BLU/RED	PARK BRAKE ON	
12	GRY	TRANSFER 2 SPEED	

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

RIGHT HARNESS (2 OF 2)

Schematic for Part # 1017341

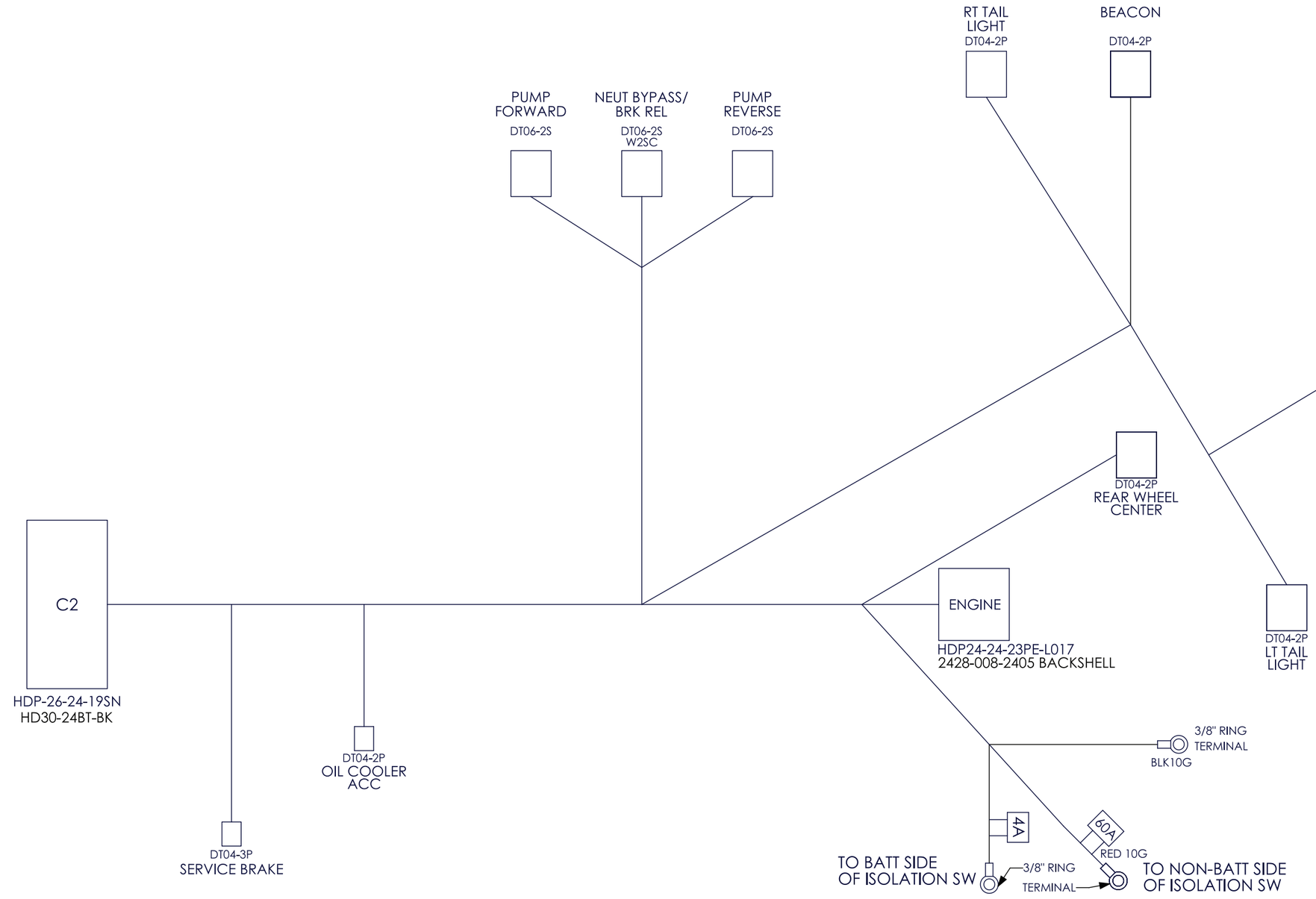
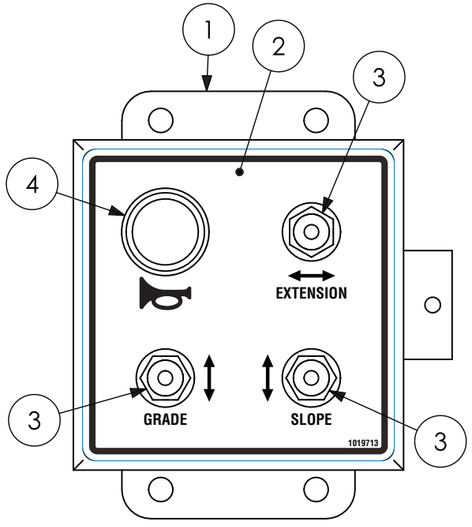
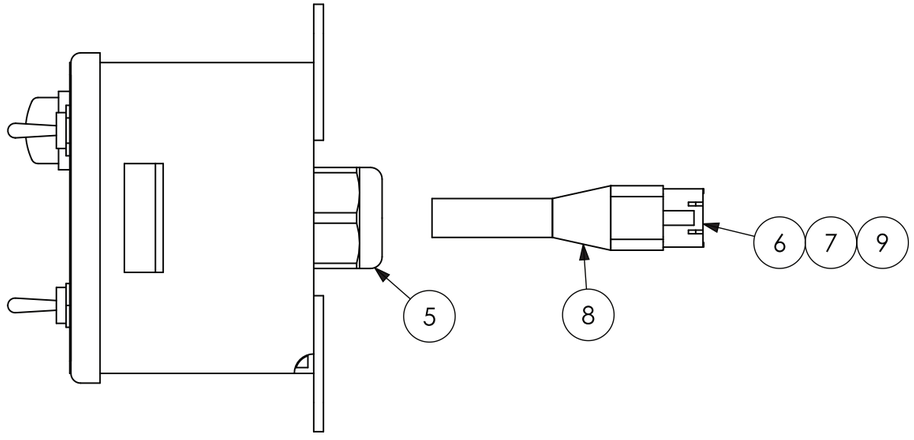


Figure 6-13. Right Harness (2 of 2)

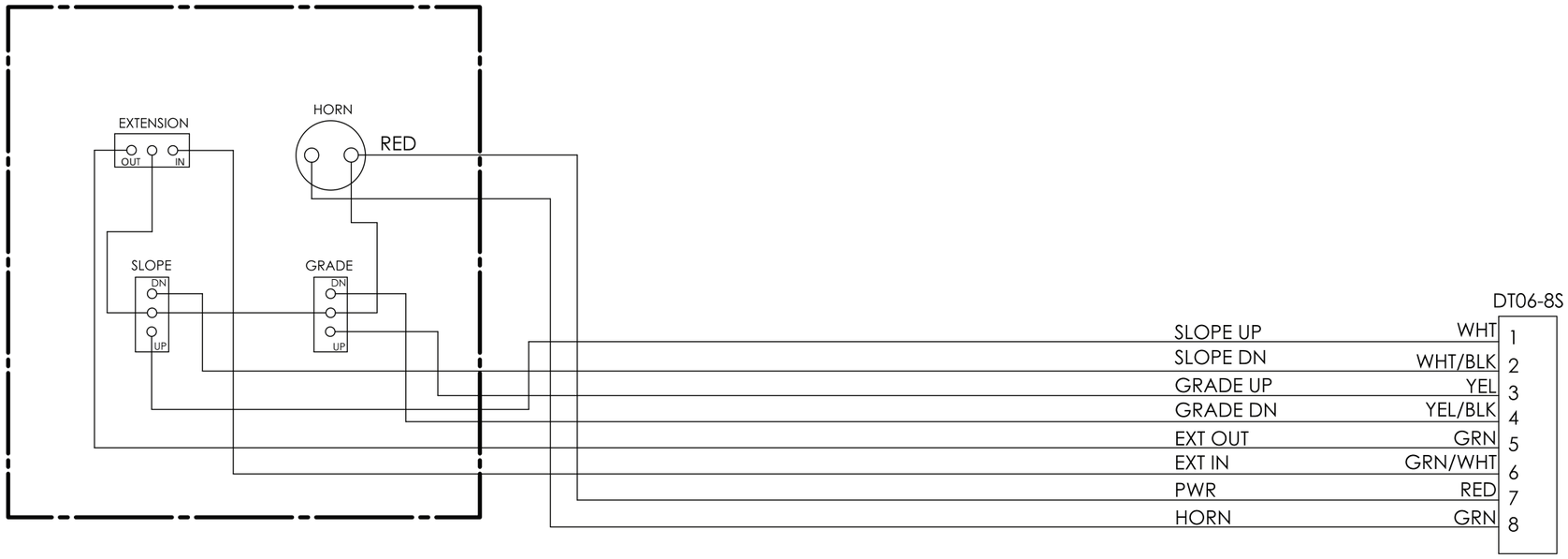
OPTION - STRIKE OFF REMOTE CONTROL BOX

Schematic for Part # 1019703





ITEM NO.	PART NUMBER	QTY.	DESCRIPTION
1	1019704	1	ENCLOSURE, CONTROL BOX, STRIKE OFF, REMOTE
2	1019713	1	DECAL, OPER, CONTROL PANEL
3	851392	3	SWITCH,TOGGLE,3-POS,SPDT,MOM
4	982249	1	SWITCH,PUSH BUTTON
5	3400DI	1	WATER TIGHT CONN, 3/4 X 3/4 | MPT
6	982449	1	CONN,PLUG,DT06-8SA,DEUTSCH
7	1007354	8	TERM,SOC 16-22 GA DEUTSCH
8	982446-01	1	BOOT COVER,CONN,SOC,12P
9	983218	1	CONN,WEDGE,PLUG,8P,DEUTSCH
10	33271-2	2.5	WIRE,16GA,YELLOW
11	33271-4	5	WIRE,16GA,GREEN
12	33271-5	2.5	WIRE,16GA,WHITE
13	33271-7	3	WIRE,16GA,RED
14	33271-10	2.5	WIRE,16GA,GREEN,WHITE STRIPE
15	33271-17	2.5	WIRE,16GA,WHITE,BLACK STRIPE
16	33271-22	2.5	WIRE,16GA,YELLOW/BLACK STRIPE



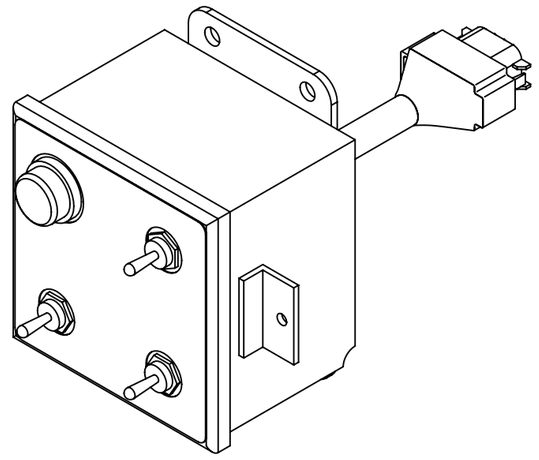


Figure 6-18. Strike Off Remote Control Box

Section 7
ILLUSTRATED PARTS LIST

Hopper Group (2 of 2)

Item No.	Part Number	Qty.	Description	Remarks
GRP	1020520		Group - Hopper	
1	1016803	1	Hopper Wing - Right	
2	1016804	1	Hopper Wing - Left	
3	100-16-8-96-8	2	CSHH, 1-8 x 6.00, GR8	
4	204-16-8-8	4	Nut Lock, Stover, 1-8, GR8	
5	100-16-8-104-8	2	CSHH, 1-8 x 6.50, GR8	
6	1020054	2	Hopper Gap Guard	
7	100-6-16-24-5	A/R	CSHH, 3/8-16 x 1.50, GR5	
8	302-6	A/R	Washer, Lock, 3/8	
9	300-6	A/R	Washer, Flat, SAE, 3/8	
10	1018480	1	Wing Pivot Mount Bracket	
11	1018482	1	Hopper Frame Brace	
12	100-8-13-18-5F	10	CSHH, 1/2-13 x 1.13, GR5, FT	
13	302-8	10	Washer, Lock, 1/2	
14	300-8	10	Washer, Flat, SAE, 1/2	
15	1019368	2	Hopper Flashing Hold Down Plate	
16	1019369	2	Hopper Flashing Rubber	
17	1019104	1	Conveyor Cylinder Assembly	See Fig. 7-5
18	1020245	1	Hopper Conveyor Assembly	See Fig. 7-5

Rear Axle Assembly - 2WD

Item No.	Part Number	Qty.	Description	Remarks
GRP	1017397		Group - Rear Axle, Fixed	
1	1016839*	1	Rear Axle Weldment	*Contact LeeBoy for Service Parts Manual
2	1020033	2	Brake Lever Mount	
3	1020035	2	Brake Lever	
4	1019046	2	Wheel/Tire Assembly	
-	20942769	A/R	M22x1.5 Flanged Wheel Nut	Not Shown
5	100-12-10-40-8F	8	CSHH, 3/4-10 x 2.50, GR8, FT	
6	300-12	24	Washer, Flat, SAE, 3/4	
7	204-12-10-8	8	Nut, Lock, Stover, 3/4-10, GR8	
8	100-12-10-32-8F	4	CSHH, 3/4-10 x 2.00, GR8, FT	
9	302-12	4	Washer, Lock, 3/4	
10	200-12-10-5	4	Nut, Hex, 3/4-10, GR5	
11	100-8-13-22-5	4	CSHH, 1/2-13 x 1.375, GR5	
12	204-8-13-5	4	Nut, Lock, Stover, 1/2-13, GR5	

Details - Upper Deck

Item No.	Part Number	Qty.	Description	Remarks
1	1016806-02	1	Anti-Skid Mat, Upper Deck - Right	
2	1016806-01	1	Anti-Skid Mat, Upper Deck - Left	
3	1016806-03	1	Anti-Skid Mat, Upper Deck - Center	
4	1017094	1	Upper Deck Cover - Front	
5	1017092	1	Upper Deck Cover - Rear	
6	100-6-16-20-5	12	CSHH, 3/8-16 x 1.25, GR5	
7	302-6	12	Washer, Lock, 3/8	
8	300-6	12	Washer, Flat, SAE, 3/8	
9	1012563	2	LED Light, Circular	
10	12755140	1	Mirror Arm - Short	
11	100857	1	Round Mirror, Convex - ø7.50	
12	13504717	2	Seat Assembly	
13	1017601	2	Seat Post	
14	37161	2	Seat Belt, 3" w/Retractor	Includes Left & Right Belts
15	100-8-13-20-5F	4	CSHH, 1/2-13 x 1.25, GR5, FT	
16	300-8	20	Washer, Flat, SAE, 1/2	
17	217-8-13	4	Nut, Lock, Flexloc, 1/2-13, Full, LT	
18	37161-02	2	Seat Belt Mount	
19	1017087	2	Seat Mount	
20	72836	2	Pin, .50 x 3.00 w/Cotter Pin	
21	100-8-13-24-5	8	CSHH, 1/2-13 x 1.50, GR5	
22	302-8	8	Washer, Lock, 1/2	
23	984630	2	Decal - Slow Moving Vehicle	
OPT	920235	A/R	Umbrella	Not Shown

Hydraulic Tank

Item No.	Part Number	Qty.	Description	Remarks
REF	1016242	1	Assembly, Hydraulic Tank, RW85	
1	1016243	1	Weldment, Hydraulic Tank, RW85	Includes Items 12-15
2	140030HL	1	Cap, Hydraulic, Lockable	
3	140030FN	1	Filler, Neck, Hydraulic Oil/Fuel Cap	
4	140030GK	1	Strainer & Gasket Kit	
5	116-#12-12	6	Screw, Self-Drilling, HWH, #12 x .75	
6a	1009523	1	Filter, Hydraulic, FIK04-300	Includes Item 6b
6b	1009523-01	1	Filter Element	
7	FS6400-20-20-O	1	Adapter, Straight, -20 ORFS/-20 O-Ring	
8	FS6400-16-16-O	1	Adapter, Straight, -16 ORFS/-16 O-Ring	
9	6408-16-O	2	Adapter, Plug, O-Ring, -16	
10	204-6-16-5	4	Nut, Lock, Stover, 3/8-16, GR5	
11	300-6	4	Washer, Flat, SAE, 3/8	
12	1015465	1	Cover	
13	985688	1	Gasket, Hydraulic Tank, 20 GAL	
14	204-4-20-5	12	Nut, Lock, Stover, 1/4-20, GR5	
15	300-4	12	Washer, Flat, SAE, 1/4	
16	FS6801-12-12-NWO-FG	1	Adapter, Elbow, 90°, -12 ORFS/-12 O-Ring	
17	6802-32-32 NWO	1	Adapter, Elbow, 45°, -32 JIC/-32 O-Ring	
18	6408-32-O	1	Adapter, Plug, O-Ring, -32	
19	100-8-13-24-5	2	CSHH, 1/2-13 x 1.25, GR5	
20	302-8	2	Washer, Lock, 1/2	
21	300-8	4	Washer, Flat, SAE,	
22	1014643	1	Sensor, Level, Hydraulic	
23	6408-6-O	1	Adapter, Plug, O-Rlng, -6	
24	1010402	1	Sender, Temperature, Hydraulic Oil, 100-250°F	
25	6401-16-16-O	1	Adapter, Straight, -16 O-Ring/-16 NPTF	
26	280210	1	Ball Valve, 1.00”	
27	2501-16-16	1	Adapter, Elbow, 90°, -16 JIC/-16 NPTF	
28	304-C-16	1	Adapter, Cap, -16 JIC	
29	500070	1	Gauge, Sight Leve/Temperature, Hydraulic Oil	
30	100-8-13-32-5	2	CSHH, 1/2-13 x 2.00, GR5	
31	200-8-13-5	2	Nut, Hex, 1/2-13, GR5	
32	856446	1	Decal - Caution, Hydraulic Oil Only	
33	1013275	1	Decal - Notice, Hydraulic Dye	

Engine Group, 74HP - Intake/Frame

Item No.	Part Number	Qty.	Description	Remarks
GRP	1016121		Group - Cummins Engine, QSF 2.8, 74HP, T4F	
1	1016121-05	1	Air Filter	
REF	1010076-02	1	Primary Air Filter	Not Shown
REF	1012474-25		Secondary Air Filter	Not Shown
2	1016121-06	2	Air Filter Mounting Bracket	
3	1016121-08	1	Filter Harness	
4	1013667-17	1	Air Restriction Indicator	
5	953521243	1	T-Bolt Clamp, 4.31-4.59	
6	1000834	1	Elbow, Rubber, 90°, 4.00 x 3.00	
7	171090	1	T-Bolt Clamp, 3.31-3.59	
8	1016121-04	1	Intake Pipe	
9	38376	2	T-Bolt Clamp, 2.25-2.53	
10	38387	1	Elbow, Rubber, 90°, 2.00	
11	1016121-02	2	Engine Support Frame - Front	
12	1016121-01	2	Engine Support Frame - Rear	
13	1016121-03	1	Engine Frame	
14	100-10-11-64-8	4	CSHH, 5/8-11 x 4.00, GR5, FT	
15	1016121-58	4	Engine Isolator	
16	986811	4	Washer, Lock, .670, Nord Wedge	
17	200-10-11-5	4	Nut, Hex, 5/8-11, GR5	

Hydraulic Manifold - Conveyor/Steering

Item No.	Part Number	Qty.	Description	Remarks
REF	1019086	1	Hydraulic Manifold Assembly-Conveyor/Steering	Includes Items 1-14
1	FS6801-20-20-NWO-FG	2	Elbow Adapter, 90°, -20 ORFS/-20 O-Ring	
2	FS6400-10-16-O	2	Straight Adapter, -10 ORFS/-16 O-Ring	
3	FS6400-06-06-O	1	Straight Adapter, -6 ORFS/-6 O-Ring	
4	FS6400-06-04-O	2	Straight Adapter, -6 ORFS/-4 O-Ring	
5	DP6400-04-O	2	Test Point Coupling, -4 O-Ring	
6	FS6400-04-04-O	4	Straight Adapter, -4 ORFS/-4 O-Ring	
7	FS6400-08-08-O	1	Straight Adapter, -8 ORFS/-8 O-Ring	
8	FS6804-06-06-06-NWO-FG	1	Run Tee Adapter, -6 ORFS/-6 O-Ring/-6 ORFS	
9	FS6600-06-06-06-FG	1	Swivel Branch Tee Adapter, -6 ORFS (x3)	
10	1015851	1	Hydraulic Manifold	Includes Items 11-16
11	1015851-03		Direct Acting Relief Valve	
12	1015851-04	1	Needle Valve	
13	1015851-05	1	Pressure Reducing Relief Valve	
14	1015851-02	2	Proportional Flow Control Cartridge	
15	1015851-01	2	Coil, 12VDC, D14E-12D-1.8A-DE	
16	1015851-06	1	P.O. Pressure Relief Valve	

Strike Off Group (3 of 4)

Item No.	Part Number	Qty.	Description	Remarks
GRP	1020392		Group - Strike Off	Some Items Omitted for Clarity
1	1018462	1	Inner Tube Strike Off	
2	1018466	2	Retainer End Tube	
3	1018796	1	Strike Off Pivot	
4	20182218	2	Clevis Pin, ø1.00 x 4.00	
5	95458329	3	Cotter Pin, Split	
6	1018903	1	Flanged Bushing, ø1.00 Shaft x 1.00 Long	
7	300-16	2	Washer, Flat, SAE, 1	
8	100-16-14-28-5F	1	CSHH, 1-14 x 1.75, GR5, FT	
9	1018589	1	Strike Off Swing Arm	Includes Items 10-13
10	1017116	1	Strike Off Pivot Shaft	
11	107114	4	Bushing	
12	1017264	2	Strike Off Pivot Plate	
13	1017107		Thrust Bearing	
14	1017323	2	Hose Clamp Kit	
15	210060	1	Clevis Pin, ø1.00 x 2.63 w/ø1.50 Head	
16	100-12-16-40-5	2	CSHH, 3/4-16 x 2.50, GR5	
17	302-12	10	Washer, Lock, 3/4	
18	100-12-10-32-5	8	CSHH, 3/4-10 x 2.00, GR5	
19	300-12	8	Washer, Flat, SAE, 3/4	
20	1017461	1	Hose Support Plate	
21	100-6-16-20-5	2	CSHH, 3/8-16 x 1.25, GR5	
22	302-6	2	Washer, Lock, 3/8	
23	300-6	2	Washer, Flat, SAE, 3/8	
24	200-6-16-5	2	Nut, Hex, 3/8-16, GR5	
25	859793	1	Decal - Grease Daily	
26	13855259	2	Decal - Warning, Falling Off	

OPTION - Strike Off TopCon-Grade

Item No.	Part Number	Qty.	Description	Remarks
OPT	1021174	1	OPTION - TopCon Grade	
1	1010499-08	1	GC-35 Controller Assembly	
REF	983414-09	1	System 5 Paver Control Box Bracket	Not Shown
2	1010499-06	1	Sonic Tracker II Assembly	
3	851578	1	TopCon Sonic Tracker Bracket	
4	100-12-10-64-8	1	CSHH, 3/4-10 x 4.00, GR8	
5	302-12	5	Washer, Lock, 3/4	
6	300-12	5	Washer, Flat, SAE, 3/4	
7	9090-1125	1	TopCon ZArm Bracket	Includes Items 8-10
8	1011443	1	Z Arm - Upper	
9	1011444	1	Z Arm - Lower	
10	920070	1	Thumb Screw, 3/8-16 x 1.00	
11	851575	1	TopCon/Spectra Pivot Mount	
12	300060	1	Handle Nut, 5/8-11	
13	100-12-10-32-5	1	CSHH, 3/4-10 x 2.00, GR5	
14	100-8-13-24-8	2	CSHH, 1/2-13 x 1.50, GR8	
15	302-8	2	Washer, Lock, 1/2	
16	300-8	2	Washer, Flat, SAE, 1/2	
17a	1021158	1	TopCon Grade Mount - Right	
17b	1021157	1	TopCon Grade Mount - Left	For Left Mounted/Dual Strike Offs
18	100-12-10-40-8	1	CSHH, 3/4-10 x 2.50, GR8	
REF	1010499-04	1	GC-35/Tracker Coil Cord - 15'.	Not Shown
REF	983414-10	1	Temp Bail w/Sleeves Assembly	Not Shown
REF	851265	1	Carrying Case - Sonic Tracker	Not Shown

OPTION - Engine Group, 130HP - Components

Item No.	Part Number	Qty.	Description	Remarks
OPT	1016628		OPTION - Cummins Engine, QSF 3.8, 130HP, T4F	
1	1013528-72	1	Alternator Mount	
2	1013528-73	1	Alternator	
3	1013528-71	1	Belt Tensioner	
4	1008650-01	1	Starter	
5	985751	1	Relay, 12VDC, SPST, 100A, HD	
6	1000867-31	2	Isolator	
7	720290	1	Solenoid, 12V, Constant Duty	
8	1013528-16	1	Wire - Relay to Grid Heater	
9	1013528-15	1	Wire - Alternator to Relay	
10	1013528-13	1	Wire - Alternator (+)	
11	1013528-12	1	Starter Relay Loop Harness	
12	1013528-14	1	Wire - Alternator Ground to Starter (-)	
13	1013528-75	1	Oil Level Gauge	
14	1013528-76	1	Oil Filter	
15	1013528-70	1	Oil Filler	
16	1012474-11	1	Fuel/Water Separator Filter	
17	988666-05	1	Fuel/Water Separator Filter Element	
18	1012474-10	1	Fuel Filter Head	
19	1012474-27	1	Fuel Filter	
REF	1013528-11	1	Engine Harness	Not Shown
REF	1013528-08	1	Mini Relay, 12V	Not Shown

OPTION - Spray Down

Item No.	Part Number	Qty.	Description	Remarks
OPT	1019319	1	OPTION - Spray Down	
1	920200	2	Spray Down Reel w/Hose	
2	920220	2	Handle & Nozzle	
REF	901210A	A/R	Wash Down Nozzle	Included With Item 2
3	2501-6-6	3	Elbow Adapter, 90°, -6 JIC/-6 NPTF	
4	6LOC/-6RFJX	6	Push Lok Fitting, -6LOC/-6RFJX	
5	6LOC-6RFJX90S	2	Push Lok Fitting, 90°, -6LOC/-6RFJSX	
6	100-5-18-16-5	13	CSHH, 5/16-18 x 1.00, GR5	
7	302-5	12	Washer, Lock, 5/16	
8	300-5	16	Washer, Flat, SAE, 5/16	
9	2704-6-6-6-LN	1	Run Tee Bulkhead Adapter, -6 JIC (x3)	
10	988731	1	Citrus Tank, 7 Gallon, Poly	
11	1019320	1	Citrus Tank Tray	
12	140030FL	1	Tank Cap, Lockable	
13	140030FN	1	Filler Neck	
14	853930	1	Filler Neck Gasket	
15	200-5-18-5	5	Nut, Hex, 5/16-18, GR5	
16	129-#10-24-8	6	Machine Screw, Hex Head, #10-24 x .50	
17	100-6-16-20-5F	2	CSHH, 3/8-16 x 1.25, GR5, FT	
18	302-6	2	Washer, Lock, 3/8	
19	300-6	2	Washer, Flat, SAE, 3/8	
20	6505-6-6	1	Male Pipe Swivel Adapter, -6 NPTF/-6 JIC	
21	480160	1	Ball Valve, 3/8	
22	2404-6-6	1	Connector Adapter, -6 JIC/-6 NPTF	
23	1016704	1	Spray Down Pump Cover	
REF	1016094	1	Decal - Instructional, Pump	
24	1015438	1	Spray Down Pump w/Pressure Switch	Includes Items 25-28
25	1015438-01	1	Spray Down Pump Body	
26	1015438-02	1	Spray Down Pump Pressure Sensor	
27	1015089-04	2	Straight Adapter, -6 BSPP/-6 NPT	
28	1015089-05	4	Isolator	
29	2502-6-6	4	Elbow Adapter, 90°, -6 JIC/-6 NPTF	
30	71812	1	Push-On Hose, 05	
31	33277	2	Hose Clamp, #4 (.22-.62)	
32	986537-31	1	In Line Filter	
33	852350	1	Rubber Grommet	
34	1014057	1	Decal - Wash Down Info	

Description	Part No.	Item No.	Figure No.
Cap, Fuel Tank, Lockable	140030FL	16	7-15
Cap, Hydraulic, Lockable	140030HL	2	7-18
Carrying Case - Sonic Tracker	851265	REF	7-37
Carrying Case - Sonic Tracker	851265	REF	7-38
CCHH, 3/8-16 x 1.00, GR5, FT	100-6-16-16-5F	11	7-20
Chain, Proof Coil, .25 x 17 Link	70395-24	13	7-19
Chimney	1013528-44	15	7-44
Circuit Breaker w/Mount, 10A	986546	31	7-12
Citrus Tank Tray	1019320	11	7-48
Citrus Tank, 7 Gallon, Poly	988731	10	7-48
Clamp Kit, Split Flange, Code 62	1902-16-M12	3	7-8
Clamp, Insulated, ø2.00”	36894	14	7-41
Clamp, ø3.00”	1013528-49	10	7-44
Clamp, ø3.00”	1013985	12	7-44
Clamp, ø4.00”	1012526-38	2	7-44
Clamp, T-Bolt, 4.50”	1013528-82	3	7-42
Clevis Pin	20925244	3	7-32
Clevis Pin	1009057-01	15	7-34
Clevis Pin, ø1.00 x 2.50	1000285	12	7-5
Clevis Pin, ø1.00 x 2.63 w/ø1.50 Head	210060	15	7-33
Clevis Pin, ø1.00 x 3.25	1000365	23	7-1
Clevis Pin, ø1.00 x 4.00	20182218	4	7-33
Coil, 12VDC Deutsch 3 Series	1001686-03	7	7-27
Coil, 12VDC Deutsch P Series	1005448-02	4	7-29
Coil, 12VDC, D14E-12D-1.8A-DE	1015851-01	15	7-28
Coneector Adapter, -6 ORFS/-4 NPTF	FS2404-06-04	7	7-32
Conn, Plug, DT06-8SA, Deutsch	982449	7	7-36
Conn, Wedge, Plug, 8P, Deutsch	983218	9	7-36
Connector Adapter, -6 JIC/-6 NPTF	2404-6-6	22	7-48
Connector Adapter, -6 ORFS/-4 NPTF	FS2404-06-04	20	7-3
Connector Adapter, -6 ORFS/-4 NPTF	FS2404-06-04	18	7-34
Connector Adapter, -6 ORFS/-6 NPTF	FS2404-06-06	17	7-7
Connector, 3 Pin, Panel Mount	1010657	24	7-12
Connector, 47 SE Pin, Deutsch	1006000	19	7-12
Connector, 6 Pin, DT04-6P-L012	1018392	21	7-12
Connector, Lockwasher, 24 Shell	981916-02	17	7-12
Connector, Nut, 24 Shell	981916-01	20	7-12
Connector, Nut, HDP20, Deutsch	1011854	18	7-12
Connector, Water Tight, 3/4 x 3/4	3400DI	5	7-36

Description	Part No.	Item No.	Figure No.
Grommet	1013528-80	6	7-40
Grommet	1013528-81	15	7-40
Group - Controls	1015917	GRP	7-11
Group - Controls, 130HP	1020685	OPT	7-10
Group - Controls, 74HP	1015917	GRP	7-10
Group - Cummins Engine, QSF 2.8, 74HP, T4F	1016121	GRP	7-22
Group - Cummins Engine, QSF 2.8, 74HP, T4F	1016121	GRP	7-23
Group - Cummins Engine, QSF 2.8, 74HP, T4F	1016121	GRP	7-24
Group - Extendable Push Roller	1015480	GRP	7-1
Group - Front Drive	1015461	GRP	7-8
Group - Hopper	1020520	GRP	7-3
Group - Hopper	1020520	GRP	7-4
Group - Rear Axle, Fixed	1017397	GRP	7-9
Group - Strike Off	1020392	GRP	7-31
Group - Strike Off	1020392	GRP	7-32
Group - Strike Off	1020392	GRP	7-33
Group - Strike Off	1020392	GRP	7-34
-H-			
Handle & Nozzle	920220	2	7-48
Handle Nut, 5/8-11	300060	12	7-38
Hex Nut, 13/16-20	300020	6b	7-10
Hole Plug	35136-4	8a	7-12
Hood Bracket	007020098	14	7-17
Hood Bracket	007020098	20	7-47
Hopper Conveyor Assembly	1020245	18	7-4
Hopper Conveyor Assembly	1020245	REF	7-5
Hopper Conveyor Assembly	1020245	REF	7-6
Hopper Flashing Hold Down Plate	1016832	25	7-3
Hopper Flashing Hold Down Plate	1019368	15	7-4
Hopper Flashing Rubber	1019369	16	7-4
Hopper Frame Brace	1018482	11	7-4
Hopper Frame Hold Down Plate	1019427	28	7-3
Hopper Gap Guard	1020054	6	7-4
Hopper Lift Cylinder Assembly	1019103	15	7-7
Hopper Rubber Cover - Center	1020140	31	7-3
Hopper Rubber Cover - Left/Right	1020139	36	7-3
Hopper Rubber Support Plate	1021181	15	7-3
Hopper Safety Bar	1020093	24	7-7