



## Operations, Service, and Parts Manual



### LEEBOY MODEL 8520 CONVEYOR PAVER

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**Manual No. 1017256-03**

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This manual applies to  
Serial Number 192558  
and above.

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### NOTICE

The safety messages that follow have NOTICE level hazards.

- Any part that is found defective as a result of inspection or any part whose measured value does not satisfy the standard or limit must be replaced.
- Always tighten components to the specified torque. Loose parts can cause damage to the machine or cause it to operate improperly.
- Only use replacement parts approved by VT 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 oils, diesel fuel, coolant, etc. Consult the local authorities or reclamation facility.

- Dispose of hazardous materials in accordance with all applicable laws and regulations. Never dispose of hazardous materials by dumping them into a sewer, on the ground, or into groundwater or waterways.
- Clean all accumulated dirt and debris away from the body of the paver and its components before you inspect the paver or perform preventive maintenance procedures or repairs. Operating a paver with accumulated dirt and debris will cause premature wear of paver components. Accumulated dirt and debris also hinders effective paver inspection.
- Retrieve any tools or parts that may have dropped inside of the paver to avoid improper paver operation.
- If any alert indicator illuminates during paver operation, stop the engine immediately. Determine the cause and repair the problem before continuing to operate the paver.

## MACHINE PRECAUTIONS

### Hot Material Precautions

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

1

### Hydraulic Systems Precautions

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

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

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

**Table 2-3. Performance Specifications**

| ITEM                    | SPECIFICATION   |
|-------------------------|---|
| Travel Speed            | 0 - 3.4 mph; 0 - 300 feet per minute (FPM)<br>[0 - 5.47 kph; 0 - 91.4 meters per minute (MPM)]. |
| Paving Speed            | 0 - 1.98 mph; 0 - 174 FPM [0 - 3.18 kph; 0 - 53 MPM]  |
| Recommended Paving RPMs | 1900 RPMs   |
| Maximum Paving Depth    | 6 in (152 mm)   |
| Gradeability            | 20%   |

**Table 2-4. Lubricant Specifications**

| ITEM          | SPECIFICATION                        |
|---------------|--------------------------------------|
| Engine Oil    | 15W-40, API, CH-4, CI-4              |
| Hydraulic Oil | All-Weather 32                       |
| Torque Hub    | 50 WT Gear Oil                       |
| Gear Box Oil  | 90 WT                                |
| Grease        | Shell Avania EP Grease or Equivalent |
| Chain Lube    | Chain Lube Agent                     |

**Table 2-5. Machine System Capacity Specifications**

| ITEM                                     | SPECIFICATION                                |
|--|--|
| Engine Lubrication Oil (Refill Capacity) | 3.5 gal (13.24 L)                            |
| Hydraulic Oil Tank                       | 73 gal (276 L)                               |
| Torque Hubs                              | 32 oz (.35 L) each                           |
| Diesel Fuel Tank                         | 24 gal (90 L)                                |
| Spraydown Tank                           | 7 gal (26 L)                                 |
| Coolant                                  | 14.4 qt (13.6 L) Glycol-Based, Extended Life |

**Table 2-6. Relief Pressure Specifications**

| ITEM                             | SPECIFICATION                 |
|----------------------------------|-------------------------------|
| Pump (Propulsion)                | 3625 psi (250 Bar)            |
| General Purpose Pump (Cylinders) | 2400 psi (186 Bar)            |
| Generator Pump                   | 3000 psi (200 Bar)            |
| Conveyor Pump                    | 3400 psi (234 Bar)            |
| Auger Pump                       | 3400 psi (234 Bar)            |
| Track Tensioning Relief          | 1500 psi (103.4 Bar)          |
| Charge Pressure                  | 350 - 400 psi (24 - 27.6 Bar) |

**Table 2-7. Hopper Specifications**

| ITEM              | SPECIFICATION    |
|-------------------|------------------|
| Material Capacity | 9 Tons           |
| Height            | 23 in (584 mm)   |
| Wings             | 1/2 in (12.7 mm) |

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### COMPONENTS OVERVIEW

This section describes the major components for the LeeBoy 8520 Conveyor Paver. Become familiar with these components before operating the machine.



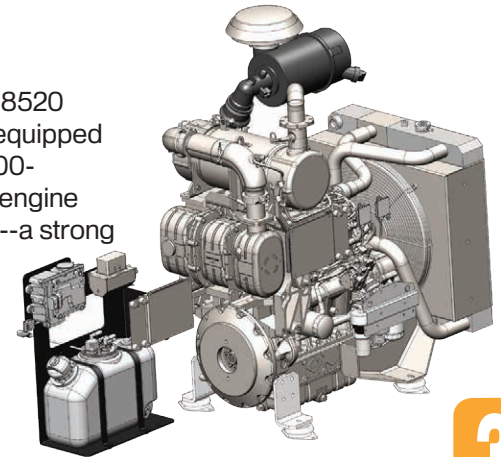
### Dual Operator Platform

The dual operator platforms allow easy and convenient access for controls of most paver functions. The paver can be operated from the left or right side, depending upon which control panel side is active and best suited to the working conditions. The main control panel slides to either side of the platform, featuring the PV480 digital display controller, work function switches, and a vandalism cover for security and protection. The operator platform offers the versatility of a high deck that can be manually lowered to a low-deck configuration for accommodating a screed operator while paving. Remote screed control boxes are mounted on each side for screed operator convenience.



### Engine

The LeeBoy Model 8520 Conveyor Paver is equipped with a Kubota (V3800-TIEF4BFT4) diesel engine with 106 HP (79kW)--a strong performer with the latest technology. The engine is accessible through several access doors, with a front service door where fuel filter components are located for easier access.



3

This Tier 4 Final fuel-efficient engine offers the latest in innovative emission solutions to reduce diesel particulate matter (DPM) and other toxins released into the air. Advanced emission-control devices and low-sulfur fuel requirements--only Ultra-Low Sulfur Diesel (ULSD) can be used in these engines--combine with after-treatment Diesel Particulate Filter (DPF) to optimize combustion. This paver is also equipped with a DEF (Diesel Exhaust Fluid) tank.

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

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

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

### Track System

The paver drive system contains two heavy-duty torque hubs that propel the hydrostatically-powered, self-cleaning tracks with self-adjusting front idlers. Two-speed motors power tough planetary drives for smooth operation.

### 4-FUNCTION REMOTE SCREED CONTROLS

The 4-function remote screed extension control boxes feature automatic auger dials above the controller box (left control box shown).

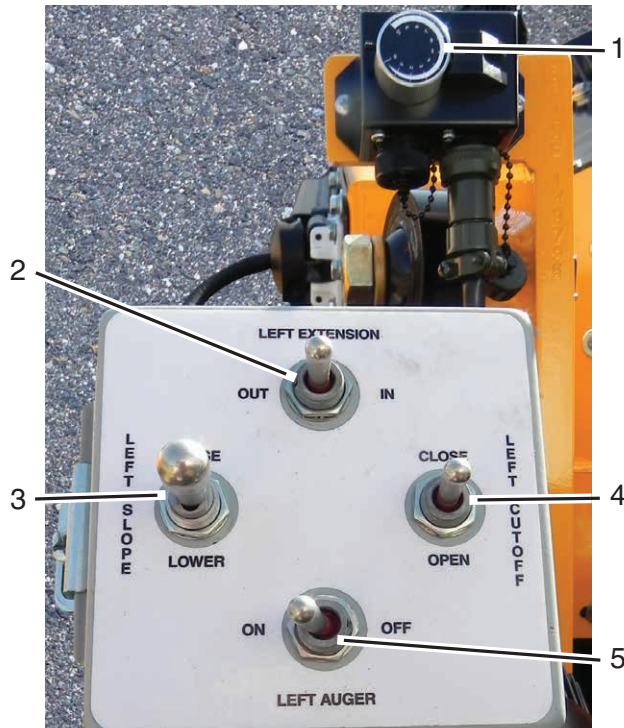


Figure 3-8. Left Screed Control Box

| ITEM NO. | CONTROL NAME                  | FUNCTION   |
|----------|-------------------------------|--|
| 1        | Automatic Auger Dial          | Controls auger height of the material in the endgate. The auger switch must be turned on to AUTO and the sonic auger sensor installed for the auger dials to function. |
| 2        | Screed Extension              | Extends and retracts screed extension.   |
| 3        | Slope Raise/Lower             | Option: Raises and lowers the asphalt slope if equipped.   |
| 4        | Under Auger Material Cut-Offs | Opens and closes Under Auger Material Cut-Offs.  |
| 5        | Auger Switch                  | Turns auger on and off.  |

### Lamp Info

This screen shows the Diesel Particulate Filter (DPF) Lamp symbols and provides a description along with cautionary information for each symbol. Use the UP ( ^ ) or DOWN ( v ) arrow keys to scroll to each symbol. (Figures 4-11 to 4-14)



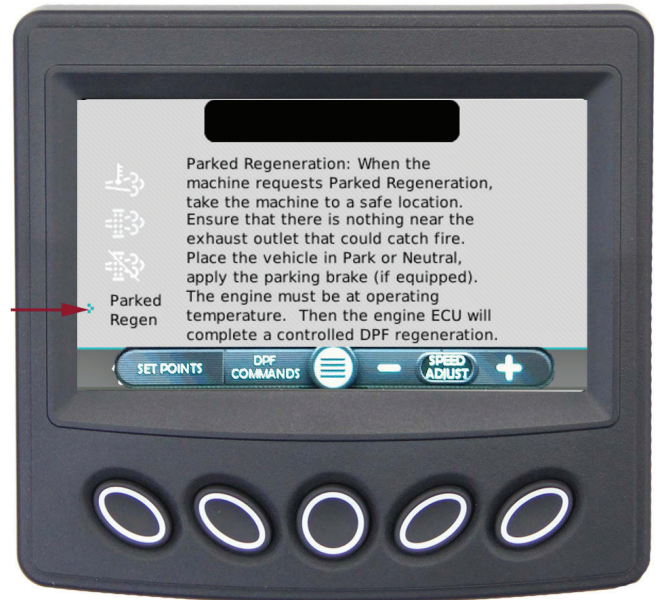
**Figure 4-11. High Exhaust Temperature Due to DPF Regeneration Symbol Screen**



**Figure 4-12. Needs Regenerating Screen**



**Figure 4-13. Machine Inhibiting DPF Regeneration Screen**



**Figure 4-14. Parked Regeneration Overview Screen**

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

To operate the spray down system:

1. Turn the Spray Down switch on the control panel ON. (Pages 3-6 to 3-7)
2. Extend hose from the reel. (Figure 4-31)
3. Squeeze the wand handle and spray area. Release the wand handle when finished.
4. Turns the Spray Down switch on the control panel OFF when finished.



Figure 4-31. Spray Down Hose Reel

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

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

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

## Heating the Screed

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

The LeeBoy 8520 Conveyor Paver is equipped with the Legend 815HD (heavy duty) electric heat system to heat the screed, including the screed extensions. A hydraulically-driven generator provides power to the electric heat control box mounted in the center on the rear side of the machine. The electric heat box is pre-wired for the heated endgates option (Page 4-32). If not equipped with this option, the left and right endgate switches do not function.

This control box is where you will select the heating function before you begin to pave. It is easily accessible to the screed operator when a heating cycle is needed. (Figure 4-32).

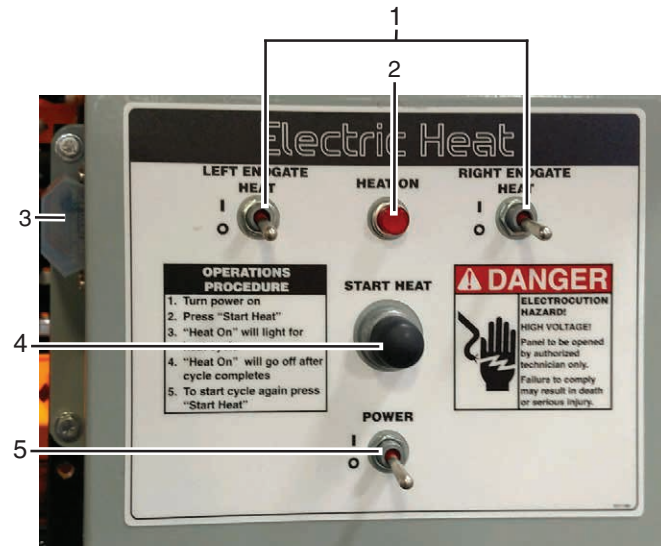


Figure 4-32. Electric Heat Control Box

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

### Mat Texture Adjustment

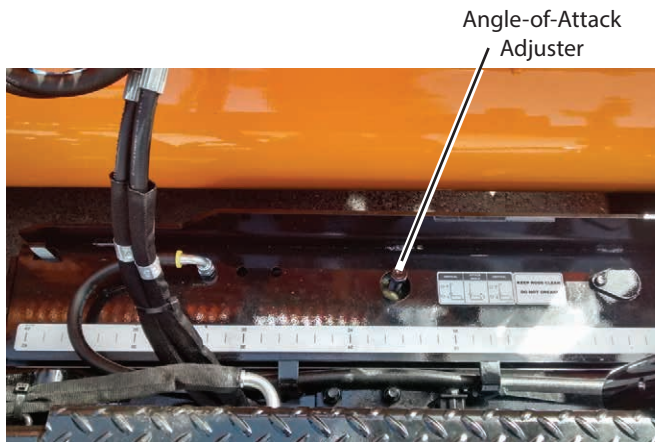
There are three adjusters in each screed extension, however the adjusters at each end are preset by the dealer and do not need adjustment.

Adjust the mat texture using the Angle-of-Attack (AOA) adjustment screw in the center to produce a smoother or coarser mat texture. **(Figure 4-49)**

- The screed extension should be hot before making any adjustments.
- Spray the bottom of the screed with cleaning solvent BEFORE heating the screed.

**CAUTION** NEVER spray cleaning solvent or release agent on or near a hot screed heating or near open flame. Cleaning solvent and release agents are flammable and could cause serious personal injury.

**NOTE:** Do not allow release agent chemicals to run onto the ground.



**Figure 4-49. AOA Adjustment**

To make the AOA adjustment:

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

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

### UNLOADING AND LOADING

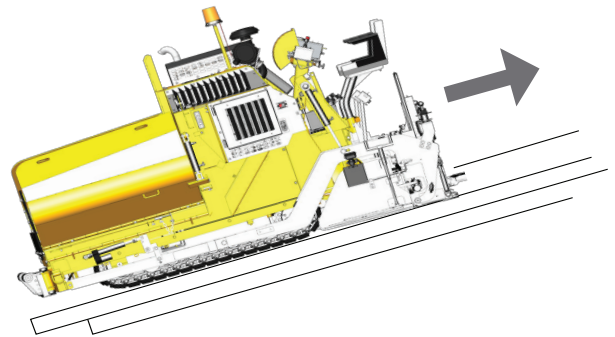
Ensure the transport trailer has the capacity to carry the paver's weight. Park the trailer in a clear, level area when loading or unloading the machine.

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

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

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

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



**Figure 4-50. Correct Loading and Unloading Position**

## Lowering Conveyor

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

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

## ROUTINE MAINTENANCE

### Preparing Paver for Maintenance

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

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

### Every 10 Hours or Daily Routine Maintenance

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

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

**WARNING** NEVER spray cleaning solvent on hot surfaces as serious injury can result.

2. Raise conveyors and place safety prop into position. **(Page 5-4)** Clean any asphalt material off all flat surfaces. Remove any debris from screed and check for leaks.
3. Lubricate the required parts. **(Pages 5-6 and 5-7)**
4. Check battery cables and connections.
5. Check coolant level. Fill if needed.
6. Check DEF tank fluid level. Fill if needed. **(Page 5-15)**
7. Check for loose, worn or damaged hoses, tubes clamps. Tighten, repair or replace promptly.
8. Keep the fuel tank full to prevent condensation. Always fill at the end of the day.
9. Check engine oil level. **(Page 5-13)**
10. Check hydraulic oil level. **(Page 5-18)**
11. Perform any other engine preventive maintenance described in the Engine Operator's Manual.

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

### Every 50 Hours or Weekly Routine Maintenance

1. The FIRST 50 HOURS, change engine oil and filters, then every 250 hours thereafter. **(Page 5-13)**
2. Check all battery connections and remove any corrosion present.
3. Drain fuel water separator (if needed). **(Page 5-18)**
4. Check torque hub oil level. Refill if needed. **(Page 5-6)**
5. Lubricate grease fittings on the flight screw on both sides of the screed, the fitting on the depth screw, and the fittings on the flange bearings located on top of the extension screed. Grease nuts on extension screws. **(Page 5-7)**
6. Perform previous routine maintenance and any other engine preventive maintenance described in the Engine Operator's Manual.

### Selective Catalytic Reduction (SCR)

The SCR system is an efficient, effective means of filtering dirt and other contaminants for optimum engine performance while reducing air pollution from exhaust emissions. The SCR system precisely injects Diesel Exhaust Fluid (DEF) into the engine's exhaust system to transform those toxic exhaust gases into harmless water vapor and nitrogen. SCR technology is also cost-effective and fuel-efficient.

**NOTICE** NEVER tamper with or remove any emission-related component under penalty of law.

The DEF tank is located just inside the right engine access door. (Figure 5-17) DEF tanks always have a blue cap with a smaller fill neck to prevent erroneously filling with the wrong fluid.



Figure 5-17. DEF Tank

A sensor on the DEF tank header monitors the fluid level, temperature and quality of DEF in the tank. The header is mounted on top of the DEF tank and provides filtered DEF supply from the tank to the DEF injector through the DPF (Diesel Particulate Filter).

**NOTE:** Check the fittings around the DEF tank header for leaks or any signs of damage regularly. DEF leaks will leave a white deposit around the fittings.

**CAUTION** DO NOT pressure wash or steam clean this unit to avoid damaging the components. Use compressed air to remove any loose debris.

### DEF (Diesel Exhaust Fluid)

DEF is a mixture pure urea and de-ionized water that is injected into the exhaust stream by the SCR system. Temperature and humidity affect DEF consumption, with hot and dry climates resulting in greater DEF consumption. Typically, machines will consume an amount equal to 2 - 10 percent of the fuel you burn.

DEF fluid is available at most truck stops, diesel engine dealerships, auto supply stores and large gas stations. To find DEF locations in the U.S., go to [http://www.finddef.com/def\\_map.php](http://www.finddef.com/def_map.php).

**WARNING** DEF contains urea, therefore, wear eye protection, gloves and appropriate protective clothing when filling the tank and handling DEF. Avoid skin contact. Use only with adequate ventilation and avoid breathing vapor or mist. DO NOT get the substance in your eyes. In case of contact, immediately flush eyes for a minimum of 15 minutes. ALWAYS wash hands thoroughly after handling DEF.

DEF freezes at 12°F (-11°C). It is recommended that DEF be stored 40 - 80°F (5 - 27°C) to maintain shelf life. Temperatures above 86°F (30°C) causes DEF to break down into ammonia, reducing shelf life considerably. DEF may be stored in the machine's tank up to four months at the recommended temperature.

**NOTICE** DO NOT use DEF after its expiration date. Always dispose of DEF in compliance with federal and local environmental laws.

It is critical that you prevent contamination entering into the SCR system. Even trace amounts of contaminants introduced into the SCR system can cause damage.

- Store DEF in a well-sealed container in a well-ventilated location away from dust and direct sunlight.
- Keep DEF containers away from fuel and lubricant containers, and any other source of contamination.
- Store DEF in a dedicated container that has not been used with other fluids, including funnels and hoses. If using pumps, ensure the seals, O-rings and fittings on the dispenser is DEF-compatible.
- Always clean around the fill neck and dispensing nozzle when refilling the DEF tank. If you're refilling the DEF tank often, the opportunity for airborne dust and dirt ingestion is high.

### REPLACEMENT PROCEDURES

#### Front Idler

Follow this procedure for replacing the front idler (Figure 5-31):

1. Raise conveyor and insert safety prop. (Page 5-4)
2. Locate track tension manifold and back the relief cartridge out of the aluminum block about three turns until you hear the tension pressure release. (Page 5-10)

**NOTE: Perform this additional step for poly or steel tracks only: Rotate the track so the master pin is at the rear bottom of the front idler and back up the paver until the track clears the front idler.**

3. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure and stabilize with jack stands or safety blocks.

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

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

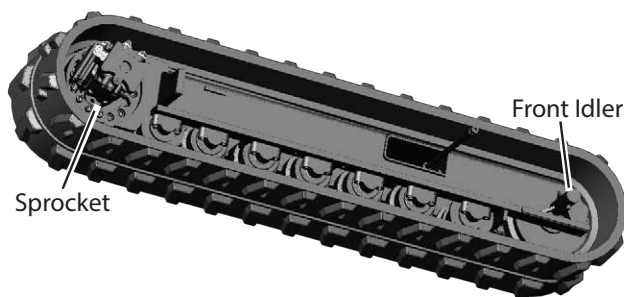


Figure 5-31. Front Idler

Perform these additional steps for poly or steel tracks only:

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

#### Track Tension Cylinder

1. Follow Steps 1 - 4 in the previous section. The track tension cylinder is located behind the front idler. (Figure 5-31)
2. Pull the track tension cylinder toward the front to remove the hose from the bottom of the cylinder.
3. Repack the seal kit or replace cylinder if worn, and reinstall.
4. Install idler, ensuring cylinder and clip pin are aligned properly.

**NOTE: If equipped with poly or steel tracks, follow Steps 8 - 11 above.**

#### Track Rollers

1. Raise conveyor and insert safety prop. (Page 5-4)
2. Release track tension by screwing the relief cartridge out of the manifold (about three turns or until you hear the pressure release).
3. Jack up the paver at least two feet (61 cm) off the ground for enough clearance under the undercarriage to perform this procedure.

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

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

### WELDMENT



*Figure 5-48. Welding*

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

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

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

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

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

Before welding on the machine:

**PREPARE:**

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

**DISCONNECT:**

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



| SPN | FMI | DTC  | SYMPTOM/CAUSE   | RECOVERY FROM ERROR   |
|-----|-----|--|---|---|
| 110 | 0   | Engine overheat.                                 | Overheat of engine temperature greater than 248° F (120° C)   | Diagnostic counter = zero<br>Output limitation: approximately 75% of normal condition. EGR stop. Intake throttle 100% open. |
| 110 | 3   | Coolant temperature sensor: High                 | Open circuit or +B short circuit of sensor/harness. Voltage of coolant temperature sensor is 4.9V or above.   | Key switch turn OFF.<br>(White smoke increases at low temperature.)   |
| 110 | 4   | Coolant temperature sensor: Low                  | Ground short circuit of sensor/harness. Voltage of coolant temperature sensor is 0.1V or less.  | Key switch turn OFF.<br>(White smoke increases at low temperature.)   |
| 132 | 1   | Intake air volume: Low                           | Engine inlet air mass flow rate tacking. (Disconnect turbo blower intake hose.)   | Key switch turn OFF.  |
| 132 | 3   | MAF sensor: High                                 | Engine inlet air mass flow rate less than half of target value. MAF sensor voltage: 4.9V or more at normal operating condition.   | Key switch turn OFF.<br><b>Engine is not forcibly stopped by ECU. STRONGLY recommend operator stop engine promptly.</b>     |
| 132 | 4   | MAF sensor: Low                                  | Open circuit or ground short circuit of sensor/harness. MAF sensor voltage: 0.1V or less.   | Key switch turn OFF.<br><b>Engine is not forcibly stopped by ECU. STRONGLY recommend operator stop engine promptly.</b>     |
| 132 | 15  | Boost pressure: Low                              | Boost pressure sensor output is below target level in high air flow operating conditions.   | Key switch turn OFF. EGR stop.<br>Engine power is restricted by boost pressure signal accordingly.                          |
| 157 | 0   | High rail pressure.                              | Actual pressure exceeds the command pressure. Actual pressure $\geq$ 197MPa (28600 psi or 2010 kgf/cm <sup>2</sup> )  | Diagnostic counter = zero<br>EGR stop.  |
| 157 | 3   | Rail pressure sensor: High                       | Open circuit or +B short circuit of sensor/harness. Failure of sensor. Voltage or rail pressure sensor is 4.9V or above.  | Key switch turn OFF.<br>Engine running noise and white smoke increases. Engine forcibly stopped.                            |
| 157 | 4   | Rail pressure sensor: Low                        | Ground short circuit of sensor/harness. Failure of sensor. Voltage of rail pressure sensor is 0.7V or less.   | Key switch turn OFF.<br>Engine running noise and white smoke increases. Engine forcibly stopped.                            |
| 168 | 3   | Battery voltage: High                            | Open circuit, short circuit or damage to harness. Failure of battery. ECU recognition of battery voltage is above 16V in 12V system. Faulty starting.   | Key switch turn OFF.<br>EGR stop.   |
| 168 | 4   | Battery voltage: Low                             | Open circuit, short circuit or damage to harness. Failure of battery. ECU recognition of battery voltage is below 8V in 12V system. Faulty starting or engine may stop completely. (Not monitored during cranking.) | Diagnostic counter = zero<br>EGR stop.  |
| 171 | 3   | Intake air temperature built-in MAF sensor: High | Open circuit or +B short circuit of sensor/harness. Intake air temperature built-in MAF sensor voltage: 4.9V or more.   | Diagnostic counter = zero   |



# Section 6

## SCHEMATICS

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**MAIN HARNESS W/4 FUNCTION SCREED CONTROL (5 OF 8)**

Schematic for Part # 1016579 (See Figure 6-25 & 6-26)

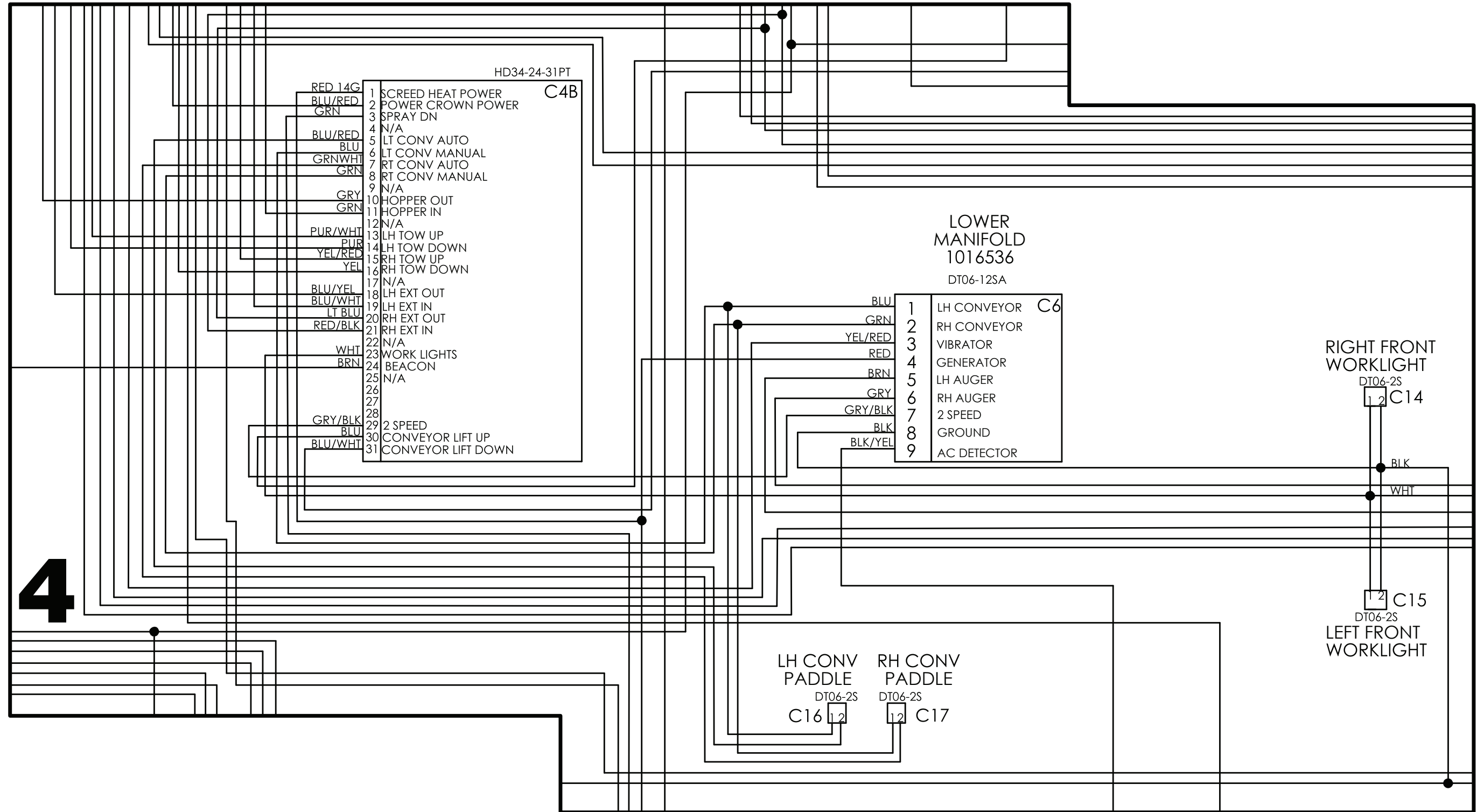


Figure 6-5. Main Harness w/4 Function Screed Control (5 of 8)

MAIN HARNESS W/9 FUNCTION SCREED CONTROL (2 OF 8)

Schematic for Part # 1017840 (See Figure 6-27 & 6-28)

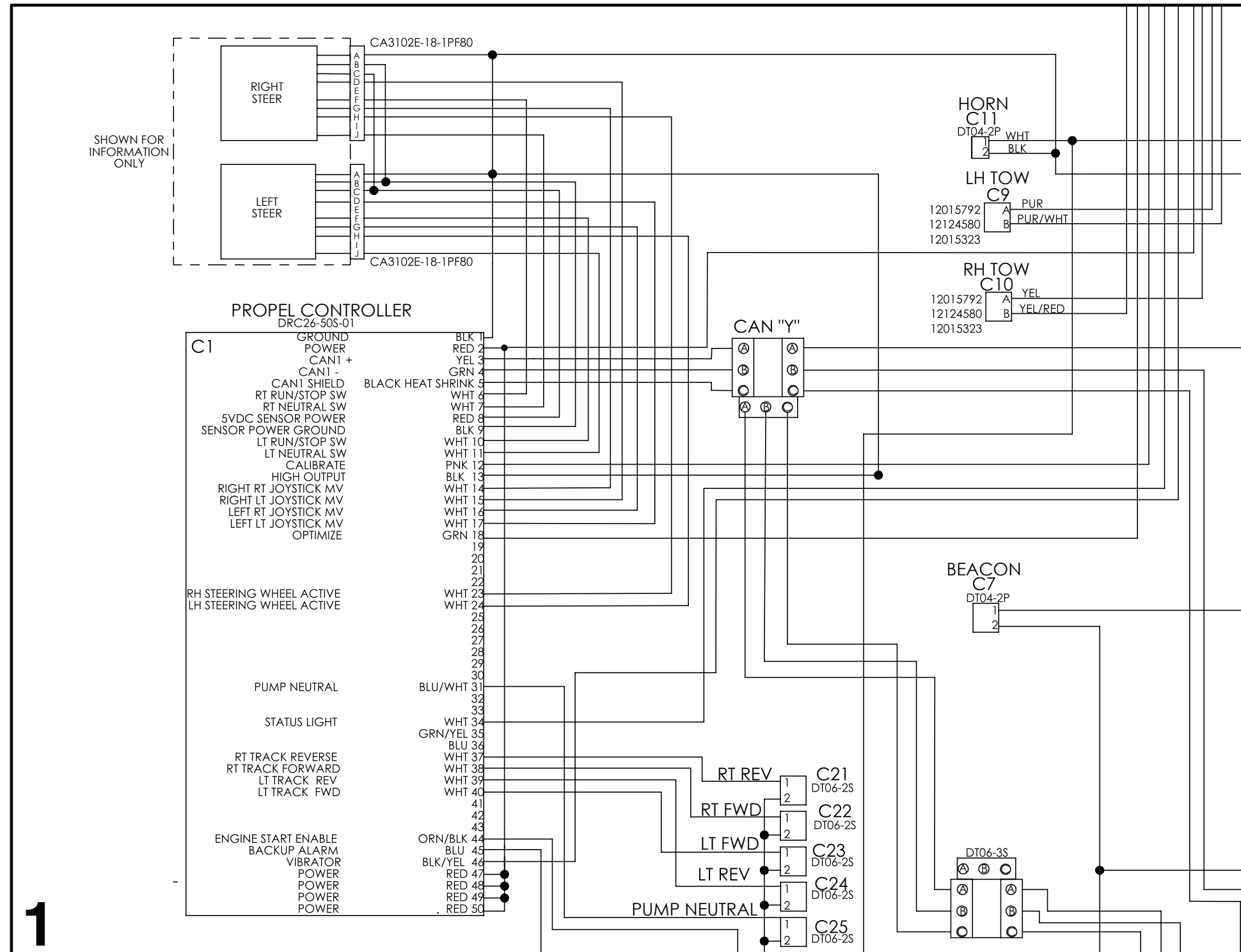


Figure 6-10. Main Harness w/9 Function Screed Control (2 of 8)

MAIN HARNESS W/9 FUNCTION SCREED CONTROL (7 OF 8)

Schematic for Part # 1017840 (See Figure 6-27 & 6-28)

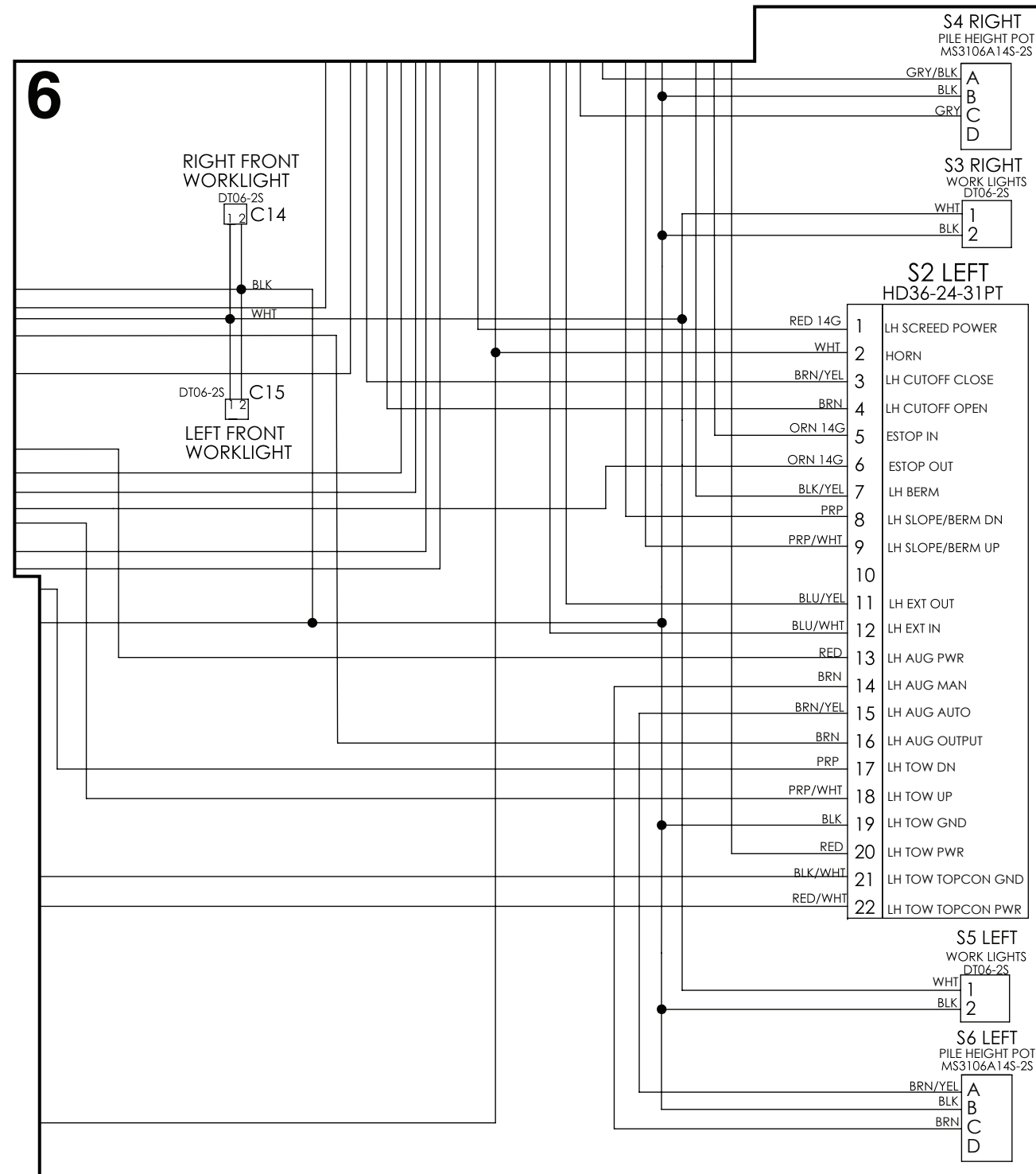
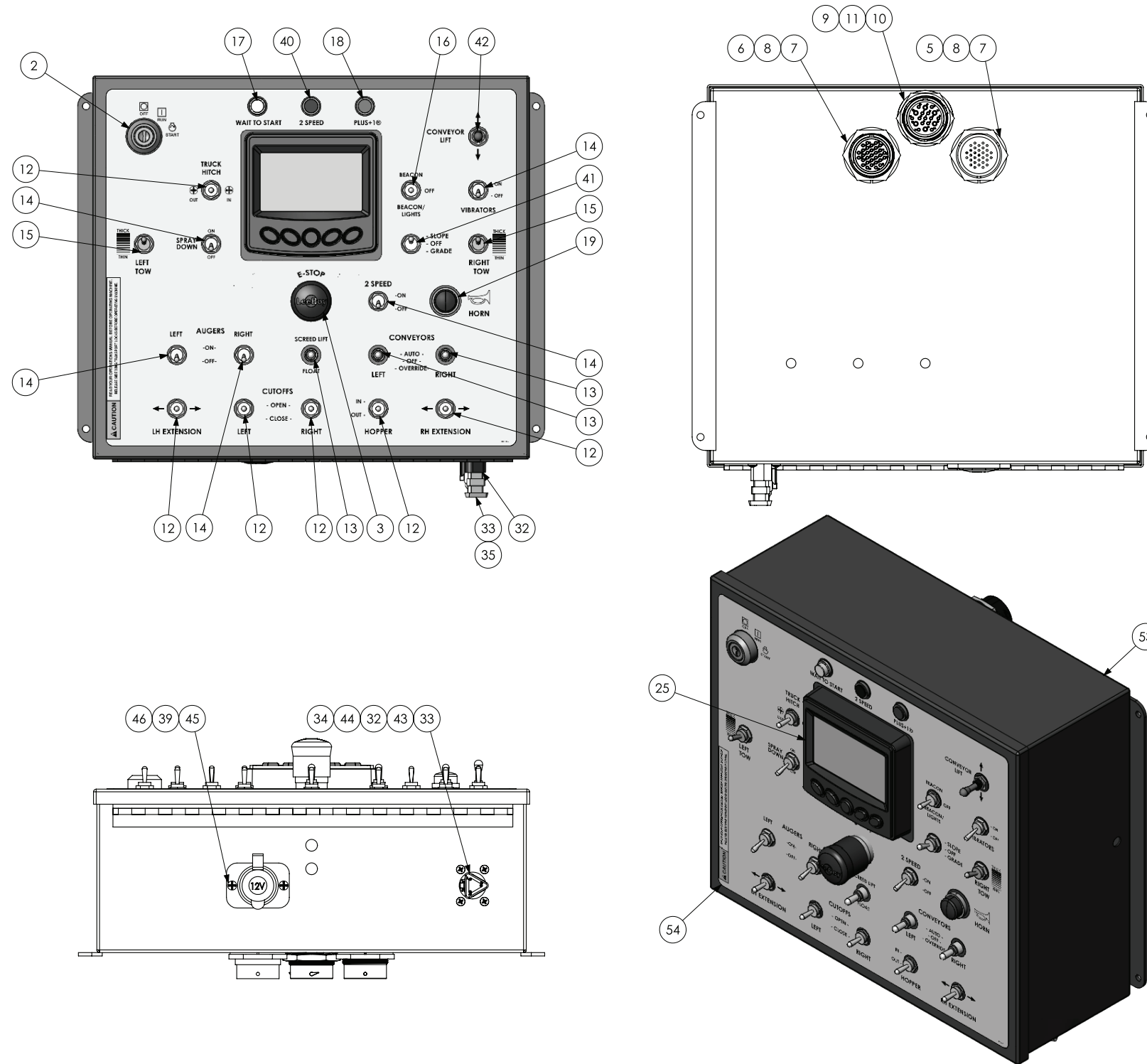


Figure 6-15. Main Harness w/9 Function Screed Control (7 of 8)

**CONTROL BOX ASSEMBLY W/9 FUNCTION SCREED CONTROL (1 OF 3)**

Schematic for Part # 1017809 (See Figure 6-27 & 6-28)



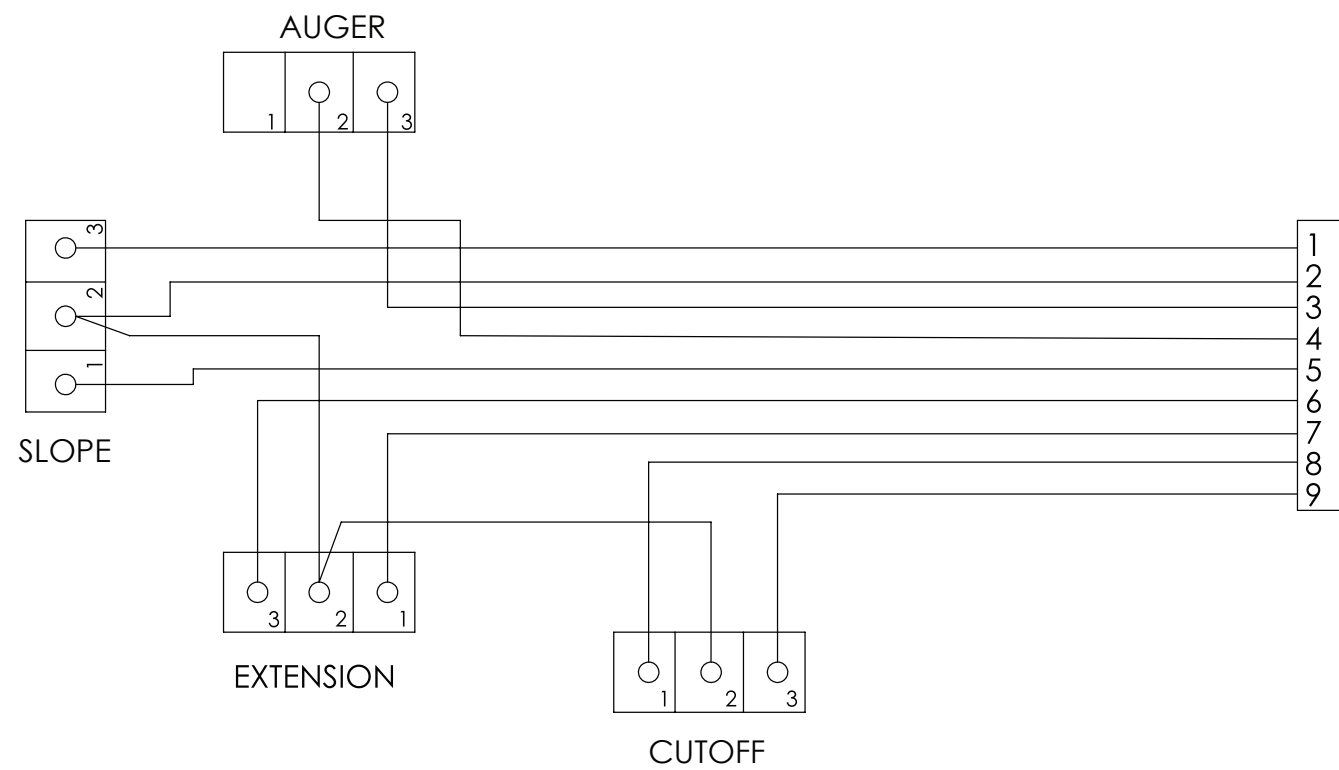
| ITEM NO. | PART NUMBER   | QTY | DESCRIPTION                                      |
|----------|---------------|-----|--|
| 1        | 1007228-03    | 1   | PANEL, WITH NOTCH, 8616                          |
| 2        | 39146-14      | 1   | SWITCH,IGN.W/HEAT ST                             |
| 3        | 1010672       | 1   | SWITCH,EMER STOP, 1-NC                           |
| 4        | 1010692       | 1   | CONTACT BLOCK, 1-NC, EATON                       |
| 5        | 981916        | 1   | CONN,31-PIN,RECPT,HD34-24-31, DEUTSCH            |
| 6        | 1015381       | 1   | CONNECTOR, 31 PIN, HD34-24-31ST                  |
| 7        | 981916-02     | 2   | CONN,LOCK WASHER,24 SHELL                        |
| 8        | 981916-01     | 2   | CONN,NUT,24 SHELL                                |
| 9        | 1014909       | 1   | RECEPTACLE, 19 PIN, DEUTSCH HDP20 SERIES         |
| 10       | 1011855       | 1   | CONNECTOR, WASHER, DEUTSCH HDP20 SERIES          |
| 11       | 1011854       | 1   | CONNECTOR, NUT, DEUTSCH HDP20 SERIES             |
| 12       | 851392        | 6   | SWITCH,TOGGLE,3-POS,SPDT,MOM                     |
| 13       | 900030        | 3   | SWITCH,TOGGLE,AUTO CONVEYOR *                    |
| 14       | 851391        | 5   | SWITCH,TOGGLE,SPST,2-POS                         |
| 15       | 37521         | 2   | SWITCH,TOGGLE,3-POS, 2 POL, MOM                  |
| 16       | 851090613     | 2   | SWITCH,TOGGLE,SPDT,3-POS                         |
| 17       | 1010500       | 1   | LIGHT,INDICATOR,WHITE                            |
| 18       | 31985         | 1   | LIGHT,GREEN,DASH,.50 HOLE                        |
| 19       | 982249        | 1   | SWITCH,PUSH BUTTON                               |
| 20       | 36086         | 5   | BRACKET,RELAY MOUNT                              |
| 21       | 36085         | 5   | RELAY,12VDC,SPDT,40 AMP,5 PIN                    |
| 22       | 685060        | 1   | FUSE BLOCK,18 GANG,ATC                           |
| 23       | 20934592      | 1   | RELAY,75 AMP,SPST                                |
| 24       | 986546        | 1   | CIRCUIT BREAKER,10A                              |
| 25       | 1016835       | 1   | DISPLAY, PV480, SCR, 8520                        |
| 26       | 1016260       | 1   | BRACKET, MOUNT, TOGGLE SWITCH                    |
| 27       | 1016261       | 1   | DECAL, OPER, CALIBRATE                           |
| 28       | 36340         | 11  | FUSE,10 AMP,ATC                                  |
| 29       | 36746         | 1   | FUSE,5 AMP,ATC                                   |
| 30       | 36341         | 2   | FUSE,15 AMP,ATC                                  |
| 31       | 36342         | 3   | FUSE,20 AMP,ATC                                  |
| 32       | 1010657       | 1   | CONNECTOR, 03-PIN, PANEL MOUNT, DEUTSCH, DT04-3P |
| 33       | 989179        | 1   | CONNECTOR, 03-PIN, PLUG, W/120 OHM               |
| 34       | 982456        | 3   | PIN, DEUTSCH, 14-16AWG                           |
| 35       | 983211        | 1   | CONNECTOR, WEDGELock, DEUTSCH, W3P               |
| 36       | 989178        | 1   | CONNECTOR,03-PIN,SOCKET,Y,DEUTSCH                |
| 37       | 983210        | 2   | CONNECTOR, 03-PIN, WEDGE, PLUG, DEUTSCH          |
| 38       | 1000649       | 2   | CONNECTOR,03-PIN,SOCKET,DT06-3S-EP11             |
| 39       | 1011147       | 1   | LIGHTER, CIGARETTE                               |
| 40       | 31986         | 1   | LIGHT,BLUE,DASH,.50 HOLE                         |
| 41       | 851390        | 1   | SWITCH,TOGGLE,DPDT,3-POS                         |
| 42       | 851393        | 1   | SWITCH,TOGGLE,3-POS,SPDT,MOM LK                  |
| 43       | 122-#8-32-8F  | 4   | PHMS, CROSS, #8-32 X 0.5, FT                     |
| 44       | 215-#8-32     | 4   | NUT,HEX,MACH,LW,#8-32                            |
| 45       | 123-#10-24-8F | 2   | PHMS, CROSS, #10-24 X 0.5, FT                    |
| 46       | 215-#10-24    | 2   | NUT,HEX,MACH,LW,#10-24                           |
| 47       | 122-#8-32-16F | 4   | PHMS, CROSS, #8-32 X 1, FT                       |
| 48       | 122-#8-32-6F  | 6   | PHMS, CROSS, #8-32 X 0.375, FT                   |
| 49       | 303-#8        | 2   | WASHER, LOCK, EXT TOOTH, #8                      |
| 50       | 1017351       | 1   | DECAL, OPER, RELAY DIAGRAM 8515E/8520/150D/6150  |
| 51       | 1017345       | 1   | DECAL, OPER, FUSE DIAGRAM 8515E/8520             |
| 52       | 37303         | 1   | FUSE,25 AMP,ATC                                  |
| 53       | 1017810       | 1   | ENCLOSURE, CONTROL BOX, 8520, 8515E, 6150/150D   |
| 54       | 1017811       | 1   | DECAL, OPER, CONTROL BOX, 8520/8515E             |
| 55       | 983203        | 2   | CONNECTOR, 04-PIN, PLUG, DT06-4S   DEUTSCH       |
| 56       | 983202        | 2   | CONNECTOR, 04-PIN,SOC,DT04-4P                    |
| 57       | 1013122       | 1   | CONNECTOR, 35 POS, AMP SEAL PLUG, BLACK          |

Figure 6-20. Control Box Assembly w/9 Function Screed Control (1 of 3)

SCREED CONTROL BOX ASSEMBLY, 4 FUNCTION - LEFT

Schematic for Part # 1016618

| ITEM NO. | PART NUMBER | QTY | DESCRIPTION                                  |
|----------|-------------|-----|--|
| 1        | 1016101-01  | 1   | ENCLOSURE, CONTROL BOX, SCREED, 4 SWITCH, RH |
| 2        | 1016248     | 1   | DECAL, SCREED CONTROL BOX, RH                |
| 3        | 851391      | 1   | SWITCH, TOGGLE, SPST, 2-POS                  |
| 4        | 851392      | 2   | SWITCH, TOGGLE, 3-POS, SPDT, MOM             |
| 5        | 851393      | 1   | SWITCH, TOGGLE, 3-POS, SPDT, MOM LK          |
| 6        | 3400DI      | 1   | WATER TIGHT CONN, 3/4 X 3/4   MPT            |



| DT04-12P |         |              |
|----------|---------|--------------|
| 1        | WHT/BLK | SLOPE RAISE  |
| 2        | RED     | POWER        |
| 3        | GRN     | AUGER ON     |
| 4        | WHT     | AUGER POWER  |
| 5        | ORG     | SLOPE LOWER  |
| 6        | BLU     | EXT IN       |
| 7        | BLK     | EXT OUT      |
| 8        | PRP     | CUTOFF CLOSE |
| 9        | BRN     | CUTOFF OPEN  |

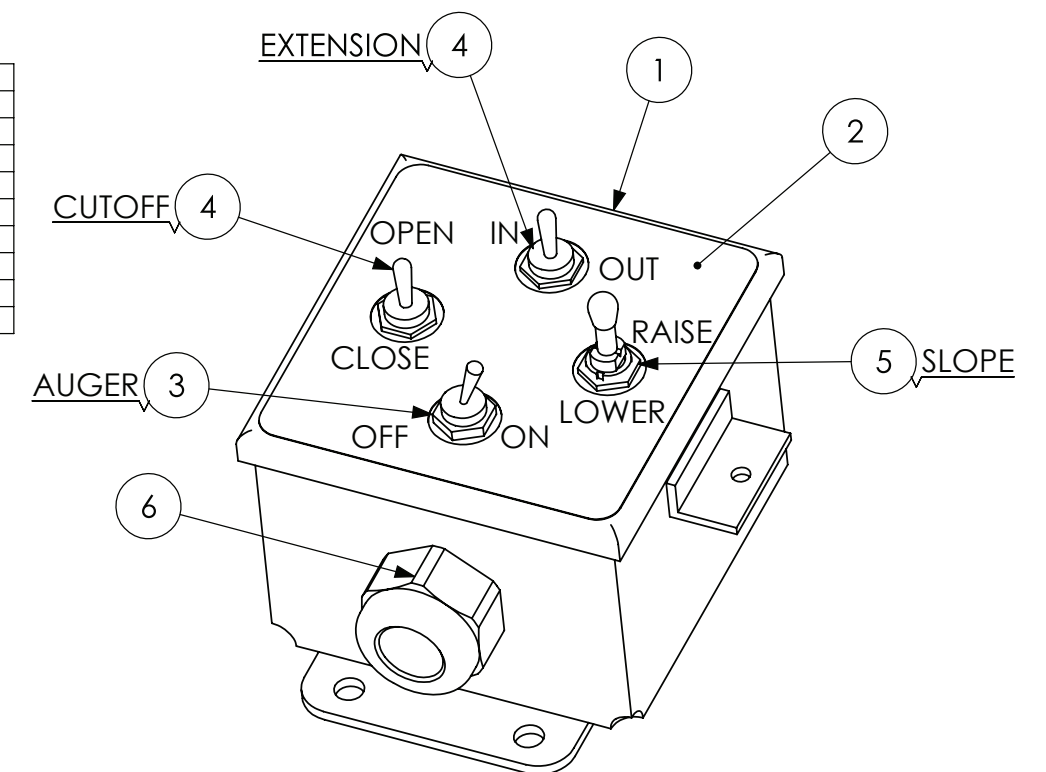


Figure 6-25. Screed Control Box Assembly, 4 Function - Left

SCREED HEAT CONTROL BOX ASSEMBLY (2 OF 2)

Schematic for Part # 1016891

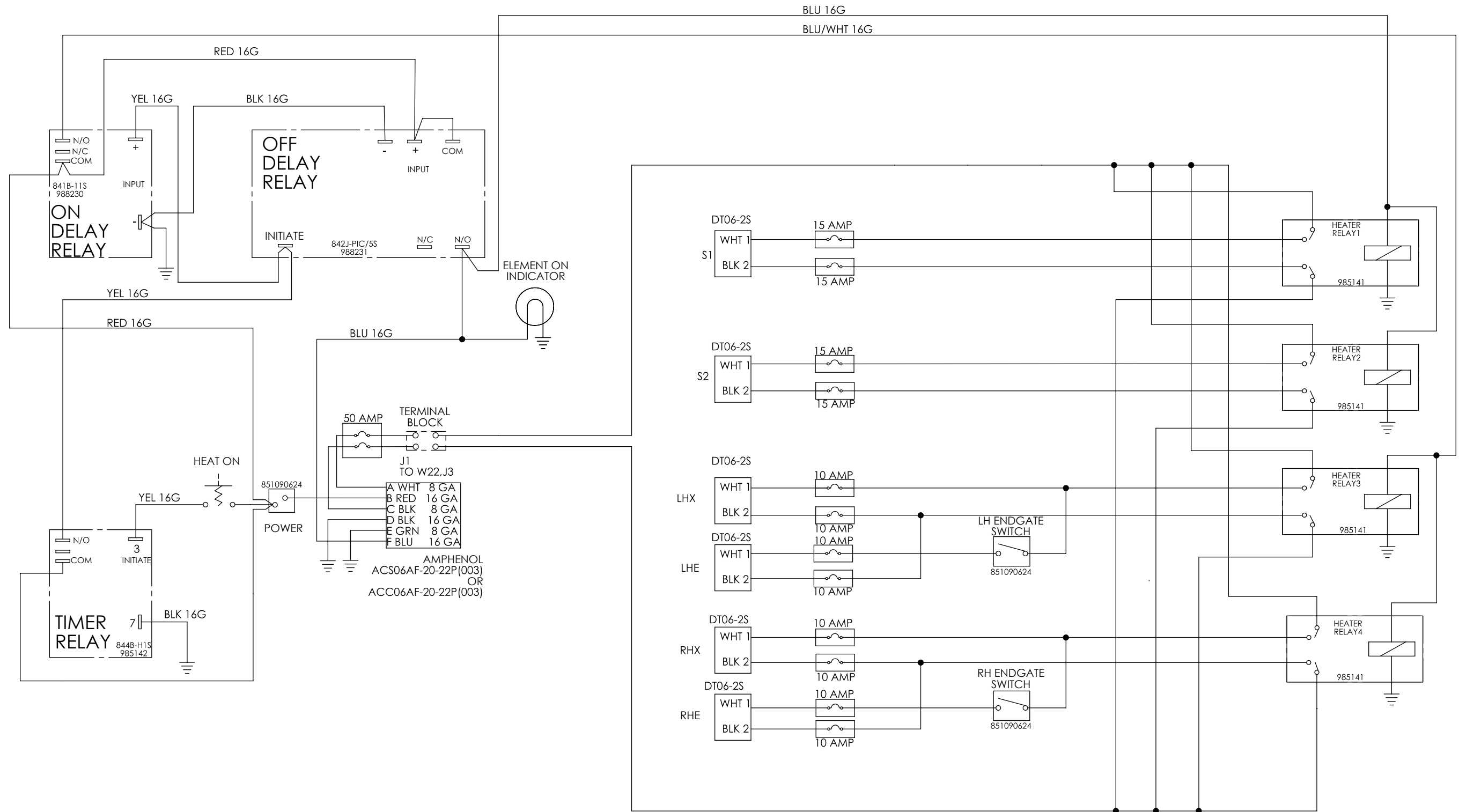


Figure 6-30. Screed Heat Control Box Assembly (2 of 2)

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**BULKHEAD TO GENERATOR HARNESS**

Schematic for Part # 1016724

AMPHENOL  
ACC 06 E20-22P

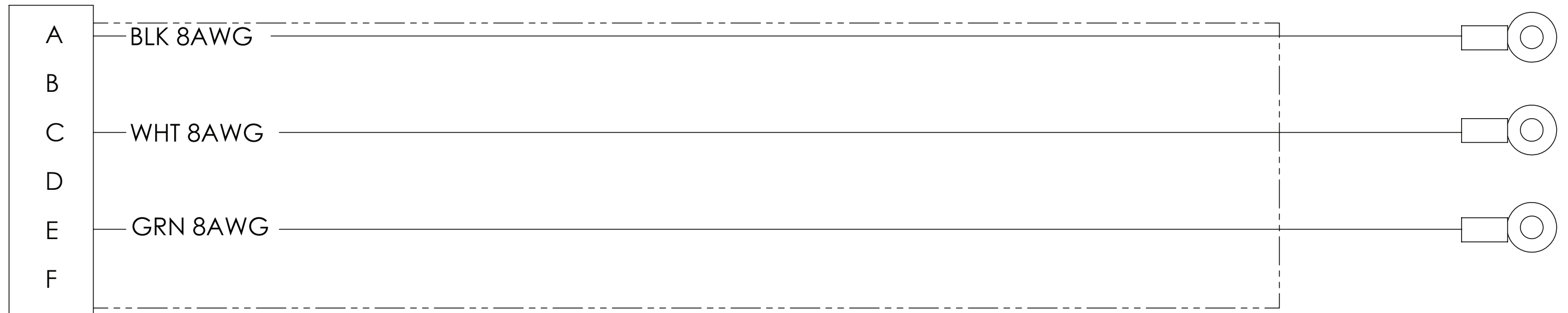


Figure 6-35. Bulkhead to Generator Harness

HYDRAULIC SCHEMATIC (3 OF 5)

Schematic for Part # 1016856

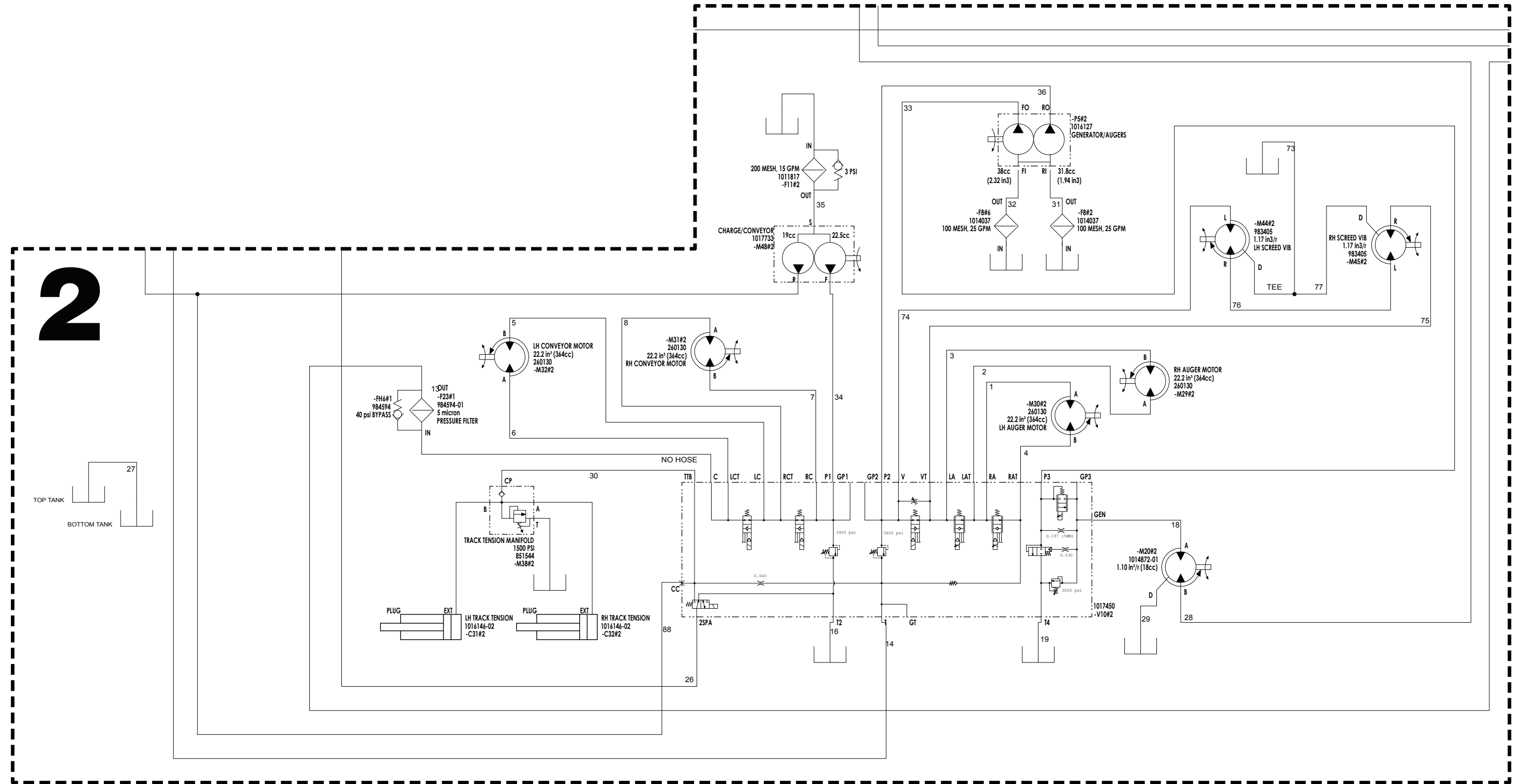






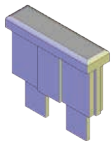




Figure 6-40. Hydraulic Schematic (3 of 5)


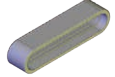
### QUICK REFERENCE



| FILTERS/STRAINERS   |                                |            |
|---|--------------------------------|------------|
| Engine  | Description                    | Part #     |
|  | Oil Filter                     | 986537-03  |
|   | Water Separator                | 1009253-19 |
|   | Fuel Filter                    | 1009253-18 |
|   | Air Cleaner, Primary           | 1009253-17 |
|   | Air Cleaner, Secondary         | 1009253-16 |
| Hydraulic   |                                |            |
|  | Suction Strainer, 1-7/8-12 SAE | 1011817    |
|   | Suction Strainer, 2-1/2-12 SAE | 1014037    |
|   | Charge Filter                  | 290030     |
|   | Charge/Return Filter Head      | 1017402    |
| Spray Down  |                                |            |
|  | Pump and Strainer Kit          | 1015532    |
|   | Filter                         | 986537-31  |

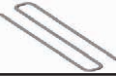

| ENGINE COMPONENTS   |             |            |
|---|-------------|------------|
|   | Description | Part #     |
|  | Engine Belt | 1016249-46 |
|  | Alternator  | 1009253-21 |
|  | Starter     | 1001166-03 |

| ELECTRICAL COMPONENTS   |                 |            |
|---|-----------------|------------|
|   | Description     | Part #     |
|  | FUSE KIT:       |            |
|   | • 5A ATC        | 36746      |
|   | • 10A ATC       | 36340      |
|   | • 15A ATC       | 36341      |
|   | • 20A ATC       | 36342      |
|   | • 25A ATC       | 37303      |
|  | FUSE KIT        |            |
|   | • 5A ATM        | 1017776-05 |
|   | • 20A ATM       | 1017776-20 |
|   | • 30A ATM       | 1017776-30 |
|  | Fuse Block, ATC | 685060     |

|   |              |        |
|---|--------------|--------|
|  | Breaker, 10A | 986546 |
|---|--------------|--------|

| TRACK ASSEMBLIES  |                            |            |
|---|----------------------------|------------|
|   | Description                | Part #     |
|  | Track Assembly w/Poly Pads | 1016790-01 |
|  | Continuous Rubber Track    | 1016145-02 |

| WEAR PLATES  |                                   |            |
|--|-----------------------------------|------------|
|  | Description                       | Part #     |
|   | HD Main Screenshot, 3/8" w/ Studs | 1016475    |
|  | HD Ext. Heat Box Assy (LH/RH)     | 1006380SRV |
|  | HD Ext. Wear Plate (LH/RH)        | 1006382    |
|  | Berm Ext. Main Heat Box Assy (LH) | 1017683SRV |
|  | Berm Ext. Main Heat Box Assy (RH) | 1017682SRV |

| HEATING ELEMENTS  |                               |         |
|---|-------------------------------|---------|
|   | Description                   | Part #  |
|  | HD Main Heating Element (2)   | 1015855 |
|   | HD Ext Heating Element (2)    | 1007278 |
|  | Berm Main Ext. HE (2)         | 1015936 |
|   | Berm Ext. Heating Element (2) | 1015918 |

Specifications and designs may change without prior notice. These illustrations do not necessarily show the standard versions.

### Push Bar Assembly

| Item No | Part Number     | Qty | Description                                    | Remarks                   |
|---------|-----------------|-----|--|---------------------------|
| GRP     | 1016889         | 1   | Group - Adjustable Height Push Roller Assembly |                           |
| 1       | 1016325         | 1   | Adjustable Push Roller Weldment                |                           |
| 2       | 1016324         | 4   | Adjustable Roller Mount Plate                  |                           |
| REF     | 980032          | 2   | 24" Push Bar Roller Assembly                   | Included Items 3-5        |
| 3       | 980033          | 1   | 24" Roller Assembly                            | Includes Item 4 (x2)      |
| 4       | 850130          | 8   | Bearing, Insert, 1.50                          |                           |
| 5       | 980034          | 2   | Pushbar Roller Shaft                           |                           |
| REF     | 980035          | 2   | Push Bar Roller Assembly                       | Includes Items 4 (x2) & 6 |
| 6       | 980036          | 1   | Push Bar Roller Extension Pipe                 |                           |
| 7       | 1018312         | 2   | Push Roller Scraper Bracket - Large            |                           |
| 8       | 1018311         | 2   | Push Roller Scraper - Small                    |                           |
| 9       | 1018310         | 2   | Push Roller Scraper - Large                    |                           |
| 10      | 810081SRV       | 1   | Push Bar Swivel Pin                            |                           |
| 11      | 100-10-11-16-5F | 1   | CSHH, 5/8-11 x 1.00, GR5, FT                   |                           |
| 12      | 302-10          | 1   | Washer, Lock, 5/8                              |                           |
| 13      | 1012165         | 1   | Washer, Flat, .688 OD x 2.50 ID x .188         |                           |
| 14      | 100-8-13-24-5   | 16  | CSHH, 1/2-13 x 1.50, GR5                       |                           |
| 15      | 204-8-13-5      | 12  | Nut, Lock, Stover, 1/2-13, GR5                 |                           |
| 16      | 100-6-16-12-5F  | 10  | CSHH, 3/8-16 x .75, GR5, FT                    |                           |
| 17      | 302-6           | 10  | Washer, Lock, 3/8                              |                           |
| 18      | 300-6           | 10  | Washer, Flat, SAE, 3/8                         |                           |
| 19      | 1017118         | 4   | Washer, Flat, .50 ID x 2.00 OD                 |                           |
| OPT     | 1011041         | 1   | OPTION - Adjustable Push Roller Assembly       | Not Shown                 |

### Hopper Wings

| Item No | Part Number    | Qty | Description                            | Remarks                     |
|---------|----------------|-----|--|-----------------------------|
| GRP     | 1016672        |     | Group - Hopper                         |                             |
| 1       | 1016286        | 1   | Hopper Wing Weldment - Left            |                             |
| 2       | 1016278        | 1   | Hopper Wing Weldment - Right           |                             |
| 3       | 1016289        | 2   | Sidewing Rubber                        |                             |
| 4       | 980727         | 2   | Hopper Wing Rubber Plate               |                             |
| 5       | 100-10-11-36-5 | 10  | CSHH, 5/8-11 x 2.25, GR5               |                             |
| 6       | 300-10         | A/R | Washer, Flat, SAE, 5/8                 |                             |
| 7       | 302-10         | A/R | Washer, Lock, 5/8                      |                             |
| 8       | 200-10-11-5    | 10  | Nut, Hex, 5/8-10, GR5                  |                             |
| 9       | 851143         | 2   | Proof Coil Chain, .312 x 36 Link       |                             |
| 10      | 100-6-16-26-5F | 2   | CSHH, 3/8-16 x 1.625, GR5, FT          |                             |
| 11      | 300-6          | 2   | Washer, Flat, SAE, 3/8                 |                             |
| 12      | 200-6-16-5     | 2   | Nut, Hex, 3/8-16, GR5                  |                             |
| 13      | 610110         | 2   | Hydraulic Cylinder, 2.00 x 8.22 x 1.00 |                             |
| 14      | 1011476        | 2   | Clevis Pin, 1.00 x 2.50                |                             |
| 15      | 80336          | 2   | Cotter Pin, .188 x 1.50                |                             |
| 16      | 1016283        | 2   | Hopper Wing Cylinder Bracket           |                             |
| 17      | 1016276        | 1   | Hopper Hinge Weldment - Right          |                             |
| 18      | 1016284        | 1   | Hopper Hinge Weldment - Left           |                             |
| 19      | 100-10-11-28-5 | 8   | CSHH, 5/8-11 x 1.75, GR5               |                             |
| 20      | 400-4-16       | 4   | Roll Pin, 1/4 x 1.00                   |                             |
| 21      | 1016231        | 1   | Access Door                            |                             |
| 22      | 920070         | 8   | Thumb Screw, 3/8-16 x 1.00             |                             |
| 23      | 985057         | 2   | Front Lip Rubber - Outer               |                             |
| 24      | 985062         | 2   | Side Strip Flashing                    |                             |
| 25      | 985058         | 1   | Front Lip Rubber - Center              |                             |
| 26      | 985063         | 1   | Center Flashing                        |                             |
| 27      | 100-7-20-32-5F | 10  | CSHH, 7/16-20 x 2.00, GR5, FT          |                             |
| 28      | 300-7          | 10  | Washer, Flat, SAE, 7/16                |                             |
| 29      | 853887         | 2   | Guide Bar Assembly                     |                             |
| 30      | 920041SRV      | 2   | Guide Bar Outer Tube                   |                             |
| 31      | 920051SRV      | 2   | Guide Bar Inner Tube                   |                             |
| 32      | 920061SRV      | 2   | Guide Bar                              |                             |
| 33      | 920061-1       | 2   | Proof Coil Chain, .250 x 12 Link       |                             |
| 34      | 100-6-16-20-5  | 2   | CSHH, 3/8-16 x 1.25, GR5               |                             |
| 35      | 100-8-13-40-5  | 2   | CSHH, 1/2-13 x 2.50, GR5               |                             |
| 36      | 300-8          | 2   | Washer, Flat, SAE, 1/2                 |                             |
| 37      | 204-8-13-5     | 2   | Nut, Hex, Jam, 1/2-13, GR5             |                             |
| 38      | 854032         | 2   | Pipe, .75 x 1.00, SCH 80               |                             |
| 39      | 1013877        | 2   | Hopper Wing Lock Pin                   |                             |
| 40      | 1016439        | 4   | Hopper Wing Hinge Pin                  |                             |
| 41      | 1018723        | 1   | Hopper Wing Fold Out Tool              | See Figure 7-19 For Details |

### Hydraulic Test Ports

| Item No | Part Number | Qty | Description                                  | Remarks   |
|---------|-------------|-----|--|-----------|
| 1       | 1013805     | 1   | Test Port Bracket                            |           |
| 2       | 1013583     | 5   | Hydraulic Test to #4 JIC Bulkhead            |           |
| 3       | 1017186     | 1   | Decal - Test Port Info                       |           |
| REF     | 1013588-24  | 2   | SMS Test Hose Assembly w/#4 Female JIC - 24" | Not Shown |
| REF     | 1013588-96  | 3   | SMS Test Hose Assembly w/#4 Female JIC - 96" | Not Shown |
| 4       | 1013595     | 1   | Hydraulic Pressure Test Kit                  | Option    |

### Engine Assembly - Fuse/Relay Box

| Item No | Part Number | Qty | Description                    | Remarks   |
|---------|-------------|-----|--------------------------------|-----------|
| REF     | 1016249-34  | 1   | Kubota Engine Fuse/Relay Panel |           |
| 1       | 1009253-41  | 5   | Power Block Relay              |           |
| 2       | 1017776-30  | 3   | ATM Blade Fuse, 30A            |           |
| 3       | 1017776-20  | 1   | ATM Blade Fuse, 20A            |           |
| 4       | 1017776-05  | 5   | ATM Blade Fuse, 5A             |           |
| 5       | 1017776-10  | 1   | ATM Blade Fuse, 10A            |           |
| REF     | 1009253-45  | 1   | Fuse Box Foam Rubber           | Not Shown |

### Tow Point Assembly

| Item No | Part Number    | Qty | Description                                       | Remarks                         |
|---------|----------------|-----|---|---------------------------------|
| 1       | 1016364        | 2   | Pull Arm Weldment                                 |                                 |
| 2       | 100-16-12-52-5 | 2   | CSHH, 1-12 x 3.25, GR5                            |                                 |
| 3       | 300-16         | 4   | Washer, Flat, SAE, 1                              |                                 |
| 4       | 217-16-12      | 2   | Nut, Lock, Flexloc, 1-12, Full, LT                |                                 |
| 5       | 100-8-20-36-5  | 2   | CSHH, 1/2-20 x 2.25, GR5                          |                                 |
| 6       | 300-8          | 2   | Washer, Flat, SAE, 1/2                            |                                 |
| 7       | 200-8-20-5     | 2   | Nut, Hex, 1/2-20, GR5                             |                                 |
| 8       | 851210         | 4   | Screed Pull Arm Pivot Ears                        |                                 |
| 9       | 100-10-18-32-5 | 4   | CSHH, 5/8-18 x 2.00, GR5                          |                                 |
| 10      | 300-10         | 4   | Washer, Flat, SAE, 1/2                            |                                 |
| 11      | 200-10-18-5    | 4   | Nut, Hex, 5/8-18, GR5                             |                                 |
| 12      | 851209         | 2   | Screed Pull Arm Pivot Mount                       |                                 |
| 13      | 100-6-16-16-5F | 4   | CSHH, 3/8-16 x 1.00, GR5, FT                      |                                 |
| 14      | 302-6          | 4   | Washer, Lock, 3/8                                 |                                 |
| 15      | 308-6-24       | 4   | Washer, Flat, Fender, 3/8 x 1.50                  |                                 |
| 16      | 1016658        | 2   | Push/Pull Cable, 74" x 5" Stroke, Depth Indicator |                                 |
| 17      | 851213         | 2   | Clevis, 10-32 w/.25 Hole                          |                                 |
| 18      | 100-4-20-22-5  | 2   | CSHH, 1/4-20 x 1.375, GR5                         |                                 |
| 19      | 200-4-20-5     | 2   | Nut, Hex, 1/4-20, GR5                             |                                 |
| 20      | 100-7-20-26-5  | 2   | CSHH, 7/16-20 x 1.625, GR5                        |                                 |
| 21      | 200-7-20-5     | 2   | Nut, Hex, 7/16-20, GR5                            |                                 |
| REF     | 853853L        | 1   | Electric Screw Assembly - Left                    | Includes Items 22-27            |
| REF     | 853853R        | 1   | Electric Screw Assembly - Right                   | Not Shown, Includes Items 22-27 |
| 22      | 851211         | 2   | Electric Screw Rod End Clevis                     |                                 |
| 23      | 100-8-13-40-5  | 4   | CSHH, 1/2-13 x 2.50, GR5                          |                                 |
| 24      | 204-8-13-5     | 4   | Nut, Lock, Stover, 1/2-13, GR5                    |                                 |
| 25      | 851518         | 2   | Linear Actuator, 12V, 6.00                        |                                 |
| 26      | 851212         | 2   | Linear Actuator Rod End Weldment                  |                                 |
| 27      | 1007677-04     | 2   | Decal - Flight Screw Ruler                        |                                 |

*\*Quantities shown represent parts for both left & right sides*

### Hydraulic Cylinders

| Item No | Part Number    | Qty | Description   | Remarks             |
|---------|----------------|-----|---|---------------------|
| 1       | 1017630        | 1   | Charge Filter Assembly                              | Includes Items 2-5  |
| 2       | 290030         | 1   | Hydraulic Filter Element, 9 Micron                  |                     |
| 3       | 1017402        | 1   | Hydraulic Filter Head                               |                     |
| 4       | 987552         | 1   | Elbow Adapter, 90°, -10 JIC / -12 O-Ring / -4 FP P5 |                     |
| 5       | 6801-10-12 NWO | 1   | Elbow Adapter, 90°, -10 JIC / -12 O-Ring            |                     |
| 6       | 1017631        | 1   | Hopper Wing Sequence Manifold w/Adapters            | Includes Items 7-9  |
| 7       | 910122         | 1   | Hopper Wing Sequence Manifold                       |                     |
| 8       | 6400-6-6-O     | 2   | Straight Adapter, -6 JIC / -6 O-Ring                |                     |
| 9       | 6801-6-6 NWO   | 7   | Elbow Adapter, 90°, -6 JIC / -6 O-Ring              |                     |
| REF     | 1017637        |     | Hopper Lift Cylinder Assembly                       | Includes Items 8-12 |
| 10      | 610110         | 2   | Hydraulic Cylinder, 2.00 x 8.00 x 1.00 Rod          |                     |
| 11      | 1011476        | A/R | Clevis Pin, 1.00 x 2.50                             |                     |
| 12      | 80336          | A/R | Cotter Pin, 3/16" x 1-1/2"                          |                     |
| 13      | 1016427        | 1   | Conveyor Lift Cylinder, 3.00 x 7.00, 3000 PSI       |                     |
| REF     | 1017636        | 2   | Screed Lift Cylinder Assembly                       | Includes Items 9,14 |
| 14      | 1014284SRV     | 2   | Screed Lift Cylinder, 2.50 x 12.00 x 1.00           |                     |
| 15      | 100-16-14-44-5 | 2   | CSHH, 1-14 x 2.75, GR5                              |                     |
| 16      | 302-16         | 2   | Washer, Lock, 1                                     |                     |
| 17      | 100-16-12-56-5 | 2   | CSHH, 1-12 x 3.50, GR5                              |                     |
| 18      | 300-16         | 4   | Washer, Flat, SAE, 1                                |                     |
| REF     | 1017635        | 2   | Cut Off Cylinder Assembly                           | Includes Item 19-20 |
| 19      | 910170         | 2   | Hydraulic Cylinder, 2.50 x 4.00 x 1.25 Rod          |                     |
| 20      | 2501-6-6       | 4   | Elbow Adapter, 90°, -6 JIC / -6 NPTF                |                     |
| 21      | 2501-4-4       | 1   | Elbow Adapter, 90°, -4 JIC / -4 NPTF                |                     |

### Control Box Assembly-9 Function Screed Ctrl (1 of 2)

| Item No | Part Number | Qty | Description                        | Remarks |
|---------|-------------|-----|------------------------------------|---------|
| GRP     | 1017809     |     | Control Box Assembly               |         |
| 1       | 1017810     | 1   | Control Box Enclosure              |         |
| 2       | 1017811     | 1   | Decal - Control Box Operation      |         |
| 3       | 1016385     | 1   | PV480 Display                      |         |
| 4       | 31985       | 1   | Dash Light - Green                 |         |
| 5       | 31986       | 1   | Dash Light - Blue                  |         |
| 6       | 1010500     | 1   | Indicator Light - White            |         |
| 7       | 39146-14    | 1   | Ignition Switch                    |         |
| REF     | 982008-04   | 1   | Ignition Key                       |         |
| 8       | 851392      | 6   | Toggle Switch, 3-POS, SPDT, MOM    |         |
| 9       | 851391      | 2   | Toggle Switch, 2-POS, SPST         |         |
| 10      | 37521       | 2   | Toggle Switch, 3-POS, DPDT, MOM    |         |
| 11      | 851090613   | 3   | Toggle Switch, 3-POS, SPDT         |         |
| 12      | 900030      | 3   | Toggle Switch, Auto Conveyor       |         |
| 13      | 1011118     | 1   | E-Stop Switch                      |         |
| 14      | 982249      | 1   | Push Button Switch                 |         |
| 15      | 851390      | 1   | Toggle Switch, 3-POS, DPDT         |         |
| 16      | 851393      | 1   | Toggle Switch                      |         |
| 17      | 1015381     | 1   | Connector, 31 Pin, HD34-24-31ST    |         |
| 18      | 981916-01   | 2   | Nut, 24 Shell                      |         |
| 19      | 981916-02   | 2   | Lockwasher, 24 Shell               |         |
| 20      | 1014909     | 1   | Receptacle, 19 Pin, HDP20 Series   |         |
| 21      | 1011854     | 1   | Connector Nut, HDP20 Series        |         |
| 22      | 1011855     | 1   | Connector Lockwasher, HDP20 Series |         |
| 23      | 981916      | 1   | Receptacle, 31 Pin, HD34-24-31ST   |         |
| 24      | 1011147     | 1   | 12V Cigarette Lighter Receptacle   |         |
| 25      | 989179      | 1   | Plug Connector                     |         |
| 26      | 1010657     | 1   | Panel Mount Connector              |         |
| 27      | 1016260     | 1   | Toggle Switch Mounting Bracket     |         |
| 28      | 36086       | 5   | Relay Mounting Bracket             |         |
| 29      | 36085       | 5   | Relay, 12V, SPDT, 40A, 5 Pin       |         |
| 30      | 1017351     | 1   | Decal - Relay Diagram              |         |
| 31      | 20934592    | 1   | Relay, SPST, 75A                   |         |
| 32      | 989178      | 1   | Connector, 3 Pin, Y Socket         |         |
| 33      | 1000649     | 2   | Connector, 3 Pin, DT06-3S-EP11     |         |
| 34      | 983210      | 2   | Connector, 3 Pin, Plug             |         |
| 35      | 1017345     | 1   | Decal - Fuse Diagram               |         |
| 36      | 685060      | 1   | Fuse Block, 18 Gang, ATC           |         |

### HD Screed Frame Assembly (2 of 2)

| Item No | Part Number   | Qty | Description  | Remarks                  |
|---------|---------------|-----|--|--------------------------|
| 1       | 1016475       | 1   | Wear Plate w/Studs, 3/8"                           |                          |
| 2       | 1007001       | 24  | Wear Plate Spacer                                  |                          |
| 3       | 1015855       | 2   | S-Style Heating Element, 3000W/240V                |                          |
| 4       | 1015018       | 2   | HD Screed Insulation                               |                          |
| 5       | 1016582       | 6   | Bar, .375 x 1.50 x 37.50                           |                          |
| 6       | 1016477       | 2   | S-Style Element Cover                              |                          |
| 7       | 100-6-16-40-5 | 18  | CSHH, 38-16 x 2.50, GR5                            |                          |
| 8       | 202-6-16-5    | 18  | Nut, Hex, Jam, 3/8-16, GR5                         |                          |
| 9       | 1016480       | 6   | S-Style Element Stop Bar                           |                          |
| 10      | 1016476       | 6   | S-Style Element Hold Down Bar                      |                          |
| 11      | 1016481       | 1   | S-Style Element End Cover - Right                  |                          |
| 12      | 1016483       | 1   | S-Style Element End Cover - Left                   |                          |
| 13      | 981710L       | 1   | Hydraulic Cylinder, 2.00 x 2.00 x 42.00 x 1.25 Rod |                          |
| 14      | 981710R       | 1   | Hydraulic Cylinder, 2.00 x 2.00 x 42.00 x 1.25 Rod |                          |
| 15a     | 1016151       | 2   | Manual Turnbuckle Assembly                         | Standard                 |
| 15b     | 983421        | 2   | Hydraulic Cylinder, 2.75 x 2.00 x 1.125 Rod        | Option - Hydraulic Slope |
| GRP     | 1007212       |     | Group - Mechanical Crown                           |                          |
| 16      | 1009439       | 1   | Crown & Valley Assembly                            |                          |
| 17      | 1009440       | 1   | Crown & Valley Turnbuckle Assembly                 |                          |
| 18      | 1006419       | 2   | Crown Mounting Spacer                              |                          |
| 19      | 1008047       | 1   | Roller Chain, 60H x 39P w/Half-Link & Masterlink   |                          |

### HD Screed Pull Arm Assembly, 4 Function - Right

| Item No | Part Number    | Qty | Description                              | Remarks            |
|---------|----------------|-----|--|--------------------|
| 1       | 1006438SRV     | 1   | SLP Screed Arm Assembly - Right          | Includes Items 2,3 |
| 2       | 855504         | 1   | Bar, 1/4 x 1 x 5                         |                    |
| 3       | 855496         | 1   | Shaft, 3/8 CR x 1-1/2                    |                    |
| 4       | 1013307        | 1   | LED Circular Light w/Deutsch Connector   |                    |
| 5       | 1016617        | 1   | Screed Control Box, 4 Function - Right   |                    |
| 6       | 100-6-16-16-5F | 4   | CSHH, 3/8-16 x 1.00, GR5, FT             |                    |
| 7       | 302-6          | 4   | Washer, Lock, 3/8                        |                    |
| 8       | 200-6-16-5     | 4   | Nut, Hex, 3/8-16, GR5                    |                    |
| 9       | 200-5-18-5     | 1   | Nut, Hex, 5/16-18, GR5                   |                    |
| 10      | 302-5          | 1   | Washer, Lock, 5/16                       |                    |
| 11      | 300-5          | 1   | Washer, Flat, SAE, 5/16                  |                    |
| 12      | 851392         | 2   | Toggle Switch, 3-POS, SPDT, MOM          |                    |
| 13      | 851391         | 1   | Toggle Switch, 2-POS                     | 2-Speed, High/Low  |
| 14      | 851393         | 1   | Toggle Switch                            |                    |
| 15      | 3400DI         | 1   | Water Tight Connector, 3/4 x 3/4 MPT     |                    |
| 16      | 1016248        | 1   | Decal - Screed Control Operation - Right |                    |

### HD Screenshot Vibrators and Walkboards

| Item No | Part Number     | Qty | Description   | Remarks               |
|---------|-----------------|-----|---|-----------------------|
| GRP     | 1007205         |     | Group - 815HD Vibrators                               | Includes Items 1-17   |
| 1       | 982965LSRV      | 1   | Vibrator Assembly - Left                              | Includes Items 3 - 17 |
| 2       | 982965RSRV      | 1   | Vibrator Assembly - Right                             | Includes Items 3 - 17 |
| 3       | 983405          | 2   | Hydraulic Gear Motor, 1.17 CIR, "A"                   | (1) Per Assembly      |
| 4       | 280030          | 2   | Coupling Half, L-Type Jaw, 5/8 Bore w/Keyway          | (1) Per Assembly      |
| 5       | 280040          | 2   | L-Type Jaw Coupling Spider                            | (1) Per Assembly      |
| 6       | 880030          | 2   | Coupling Half, L-Type Jaw, 1" Bore w/Keyway           | (1) Per Assembly      |
| 7       | 855535          | 2   | Vibrator Assembly w/Weld Ring (Less Motor)            | (1) Per Assembly      |
| 8       | 1009640         | 2   | Vibrator Motor Spacer                                 | (1) Per Assembly      |
| 9       | 250150          | 4   | Flange Bearing, 2-Bolt, ø1.00                         | (2) Per Assembly      |
| 10      | 880071          | 2   | Vibrator Housing Plate                                | (1) Per Assembly      |
| 11      | 100-8-13-16-5F  | 4   | CSHH, 1/2-13 x 1.00, GR5, FT                          | (2) Per Assembly      |
| 12      | 302-8           | 8   | Washer, Lock, 1/2                                     | (4) Per Assembly      |
| 13      | 100-7-14-16-5F  | 8   | CSHH, 7/16-14 x 1.00, GR5, FT                         | (4) Per Assembly      |
| 14      | 302-7           | 12  | Washer, Lock, 7/16                                    | (6) Per Assembly      |
| 15      | 100-7-14-18-5F  | 4   | CSHH, 7/16-14 x 1.125, GR5, FT                        | (2) Per Assembly      |
| 16      | 100-10-11-16-5F | 6   | CSHH, 5/8-11 x 1.00, GR5, FT                          | (3) Per Assembly      |
| 17      | 302-10          | 6   | Washer, Lock, 5/8                                     | (3) Per Assembly      |
| GRP     | 1016995         |     | Group - 815HD Gripstrut Walkboard                     | Includes 18-22        |
| 18      | 1016463         | 1   | Grip Strut Weldment - Left                            |                       |
| 19      | 1016462         | 1   | Grip Strut Weldment - Right                           |                       |
| 20      | 985163          | 4   | Walkboard Hinge Plate                                 |                       |
| 21      | 100-8-13-20-5F  | 4   | CSHH, 1/2-13 x 1.25, GR5, FT                          |                       |
| 22      | 200-8-13-5      | 4   | Nut, Hex, 1/2-13, GR5                                 |                       |
| 23      | 1017491         | 1   | Grip Strut Walkboard Assembly (Extension-Ready) Left  |                       |
| 24      | 1017492         | 1   | Grip Strut Walkboard Assembly (Extension-Ready) Right |                       |
| REF     | 1017920         | 1   | Grip Strut Extendable Walkboard                       | Option                |
| 25      | 1017493         | 1   | Walkboard Extension Assembly - Left                   | Option                |
| 26      | 1017494         | 1   | Walkboard Extension Assembly - Right                  | Option                |

### Option - HD Berm Screed Extension Assembly - Left (2 of 2)

| Item No | Part Number      | Qty | Description                               | Remarks |
|---------|------------------|-----|---|---------|
| 38      | 1007991          | 1   | Element Backup Plate, 12"                 |         |
| 39      | 1015918          | 1   | Heating Element, 500W/240V, 11"           |         |
| 40      | 1015358          | 1   | Rear Asphalt Blocker Plate                |         |
| 41      | 105-4-20-12-F    | 2   | CSFHS, 1/4-20 x .75, FT                   |         |
| 42      | 118-8-40-3/8x16  | 1   | Shoulder Bolt, $\phi$ 1/2 x 2.5L, 3/8-16  |         |
| 43      | 118-12-40-5/8x11 | 1   | Shoulder Bolt, $\phi$ 3/4 x 2.5L, 5/8-11  |         |
| 44      | 300-10           | 1   | Washer, Flat, 5/8                         |         |
| 45      | 204-10-11-5      | 1   | Nut, Lock, Stover, 5/8-11, GR5            |         |
| 46      | 1006439          | 2   | Extension Adjuster Cover                  |         |
| 47      | 1006401          | 1   | AOA Adjuster Assembly                     |         |
| 48      | 118-12-28-5/8x11 | 1   | Shoulder Bolt, $\phi$ 3/4 x 1.75L, 5/8-11 |         |
| 49      | 1015947          | 1   | Screed Bulkhead Union Adapter             |         |
| 50      | 1006395          | 1   | Vertical Lift Bar                         |         |
| 51      | 100-8-13-28-5    | 6   | CSHH, 1/2-13 x 1.75, GR5                  |         |
| 52      | 300-8            | 12  | Washer, Flat, SAE, 1/2                    |         |
| 53      | 204-8-13-5       | 6   | Nut, Lock, Stover, 1/2-13, GR5            |         |
| 54      | 1006398          | 1   | Extension Access Cover Plate              |         |
| 55      | 100-5-18-16-5    | 10  | CSHH, 5/16-18 x 1.00, GR5                 |         |
| 56      | 302-5            | 12  | Washer, Lock, 5/16                        |         |
| 57      | 300-5            | 12  | Washer, Flat, SAE, 5/16                   |         |
| 58      | 1015351          | 1   | Main Asphalt Blocker Plate                |         |
| 59      | 1015435          | 1   | Vibrator Mount Weldment                   |         |
| 60      | 1015356          | 1   | Adjuster Mount Plate                      |         |
| 61      | 100-5-18-12-5F   | 2   | CSHH, 5/16-18 x .75, GR5, FT              |         |
| 62      | 1015357          | 1   | Hinge Rod Retainer Tab                    |         |
| 63      | 200-6-16-5       | 1   | Nut, Hex, 3/8-16, GR5                     |         |

### Option - HD 3:1 Depth Screws (2 of 2)

| Item No | Part Number    | Qty | Description                           | Remarks          |
|---------|----------------|-----|---------------------------------------|------------------|
| 36      | 20160644       | 6   | Spirol Pin, $\varnothing 3/8$ x 1.750 | (3) Per Assembly |
| 37      | 113-6-16-6     | 2   | Set Screw, HSKT, Cup, 3/8-16 x .375   | (1) Per Assembly |
| 38      | 1014927        | 2   | Planetary Box Coupler                 | (1) Per Assembly |
| 39      | 20931333       | 2   | Tongued Washer, 1.21 ID x 1.86 OD     | (1) Per Assembly |
| 40      | 95200978       | 2   | Lockwasher                            | (1) Per Assembly |
| 41      | 95200879       | 2   | Locknut                               | (1) Per Assembly |
| 42      | 1014926        | 2   | Lower Planetary Drive Shaft           | (1) Per Assembly |
| 43      | 21426507       | 2   | Universal Joint                       | (1) Per Assembly |
| REF     | 20960332       | A/R | Universal Joint Bearing               | As Needed        |
| 44      | 1006431        | 2   | Adjuster Screw                        | (1) Per Assembly |
| 45      | 1006429        | 2   | Adjuster Sleeve w/Ball Joint          | (1) Per Assembly |
| 46      | 100-12-10-36-5 | 2   | CSHH, 3/4-10 x 2.25, GR5              | (1) Per Assembly |
| 47      | 302-12         | 2   | Washer, Lock, 3/4                     | (1) Per Assembly |

### Option - Dual Steering Wheel

| Item No | Part Number    | Qty | Description                            | Remarks              |
|---------|----------------|-----|--|----------------------|
| REF     | 1016947        | 1   | Option - Dual Steering Wheels          |                      |
| 1       | 1000708        | 2   | Steering Wheel Box                     |                      |
| 2       | 1000708-02     | A/R | Decal, Operation, Steering Wheel       |                      |
| 3       | 1012360        | 2   | Control Box Mount                      |                      |
| 4       | 120-6-16       | 4   | Wing Screw, Type C, 3/8-16 x 1.00, Cup | Included with Item 3 |
| 5       | 1002546SRV     | 1   | Cup Holder Weldment - Left             |                      |
| 6       | 1002547SRV     | 1   | Cup Holder Weldment - Right            | Not Shown            |
| 7       | 100-5-18-12-5F | 8   | CSHH, 5/16-18 x .75, GR5, FT           |                      |
| 8       | 302-5          | 8   | Washer, Lock, 5/16                     |                      |
| 9       | 300-5          | 8   | Washer, Flat, SAE, 5/16                |                      |

### Option - Truck Hitch Assembly

| Item No | Part Number     | Qty | Description                                 | Remarks               |
|---------|-----------------|-----|---|-----------------------|
| OPT     | 1016948         | 1   | Option - Truck Hitch                        | Includes All          |
| REF     | 930010SRV       | 1   | Truck Hitch Sub-Assembly                    | Includes Items 1 - 29 |
| 1       | 930015          | 1   | Pivotbar Support Weldment                   |                       |
| 2       | 930025SRV       | 1   | Truck Hitch Extension Arm - Left            |                       |
| 3       | 930020SRV       | 1   | Truck Hitch Extension Arm - Right           |                       |
| 4       | 930065SRV       | 2   | Truck Hitch Cover                           |                       |
| 5       | 100-6-16-20-5   | 16  | CSHH, 3/8-16 x 1.25, GR5                    |                       |
| 6       | 302-6           | 16  | Washer, Lock, 3/8                           |                       |
| 7       | 930070          | 1   | Hydraulic Cylinder, 1.50 x 30.00 x 1.00 Rod |                       |
| 8       | 1000285         | 2   | Clevis Pin, 1.00 x 2.50                     |                       |
| 9       | 80338           | 2   | Cotter Pin, .188 x 2.00                     |                       |
| 10      | 930075          | 2   | Truck Hitch Roller Assembly Shaft           |                       |
| REF     | 930060          | 2   | Tuck Hitch Roller Assembly                  | Includes Items 11, 12 |
| 11      | 856854          | 2   | Round Tube                                  |                       |
| 12      | 810110          | 8   | Push Roller Bearing, 1.250                  |                       |
| 13      | 810102          | 2   | Push Bar Roller Assembly w/Bearings         | Includes Item 12      |
| 14      | 100-8-13-20-5F  | 2   | CSHH, 1/2-13 x 1.25, GR5, FT                |                       |
| 15      | 302-8           | 2   | Washer, Lock, 1/2                           |                       |
| 16      | 855735          | 2   | Flat Washer, .500 x 2.00 x .188             |                       |
| 17      | 930030SRV       | 2   | Truck Hitch Wheel Weldment                  |                       |
| 18      | 100-10-11-20-5F | 2   | CSHH, 5/8-11 x 1.25, GR5, FT                |                       |
| 19      | 302-10          | 2   | Washer, Lock, 5/8                           |                       |
| 20      | 856046          | 2   | Flat Washer                                 |                       |
| REF     | 930040          | 2   | Round Tube Assembly                         | Includes Items 21, 22 |
| 21      | 856855          | 2   | Round Tube                                  |                       |
| 22      | 810070          | 4   | Bushing, 2.00                               |                       |
| 23      | 620400          | 2   | Locking Collar, 2.00                        |                       |
| 24      | 930045SRV       | 2   | Guide Wheel Axle Assembly                   |                       |
| 25      | 930055          | 2   | Guide Wheel Assembly                        |                       |
| 26      | 930050          | 4   | Radial Ball Bearing, 1.50                   |                       |
| 27      | 851112          | 2   | Washer                                      |                       |
| 28      | 104-406-1A      | 2   | CSFH, 1/2-13 x 1.25, FT                     |                       |
| 29      | 852250          | 1   | Truck Hitch Valve                           |                       |
| REF     | 1016949         | 1   | Truck Hitch Hose Kit                        | Not Shown             |

| Description                         | Part No.         | Item No. | Figure No. |
|-------------------------------------|------------------|----------|------------|
| ATM Blade Fuse, 5A                  | 1017776-05       | 4        | 7-16       |
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| Auger Back Wear Plate, 12"          | 1016721          | 59       | 7-8        |
| Auger Bearing                       | 1007267          | 35       | 7-8        |
| Auger Bearing Spacer Washer         | 1007323          | 34       | 7-8        |
| Auger Clamp, 12"                    | 1007269          | 21       | 7-8        |
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| Auger End Mount Assembly - Long     | 1019053          | REF      | 7-8        |
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| Auger Motor Access Plate            | 1015113          | 6        | 7-19       |
| Auger Motor Assembly                | 1017640          | REF      | 7-8        |
| Auger Motor Cover Assembly          | 981685           | 1        | 7-8        |
| Auger Sensor                        | 980540           | 20       | 7-43       |
| Auger Sensor Cable                  | 980550           | 21       | 7-43       |
| Auger Shaft Collar                  | 851645           | 41       | 7-8        |
| Auger Shaft Spacer Assembly         | 1007306          | 36       | 7-8        |
| Auger Spacer Tube                   | 1019051-01       | 46       | 7-8        |
| Auger Support Cover                 | 981695SRV        | 6        | 7-8        |
| Auger to Frame Brace - Inner        | 1016241          | 56       | 7-8        |
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| Baffle Mount                        | 1015501          | 11       | 7-18       |
| Ball Valve - 3/8                    | 480160           | 9        | 7-45       |
| Bar, .25 x 1.25 x 1.50 w/Hole       | 855759           | 15       | 7-33       |
| Bar, .25 x 1.50 x 36                | 985120           | 10       | 7-35       |
| Bar, .25 x 1.50 x 36                | 985120           | 10       | 7-36       |
| Bar, .375 x 1.50 x 37.50            | 1016582          | 5        | 7-34       |
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| Bar, 1/4 x 1 x 5                    | 855504           | 2        | 7-39       |
| Bar, 1/4 x 1 x 5                    | 855504           | 2        | 7-40       |
| Bar, 1/4 x 1 x 5                    | 855504           | 2        | 7-41       |
| Bar, Adjustable Slide               | 851242SRV        | 13       | 7-57       |
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| Battery Hold Down                   | 72313            | 28       | 7-14       |
| Battery Tray Pad                    | 720130           | 30       | 7-14       |
| Battery, 12V, 1000 CCA              | Purchase Locally | 27       | 7-14       |

| Description                     | Part No.   | Item No. | Figure No. |
|---------------------------------|------------|----------|------------|
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| Cupholder Weldment              | 1017632    | 9        | 7-27       |
| Curly Cord, 12V                 | 900082     | 5        | 7-50       |
| Cut Off Cylinder Assembly       | 1017635    | REF      | 7-26       |
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| Cut-Off Assembly - Right        | 1016155SRV | 18       | 7-8        |
| Cut-Off Cylinder Assembly       | 1017635    | REF      | 7-8        |
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| Cylinder Mounting Pin           | 981661     | 26       | 7-33       |
| <b>-D-</b>                      |            |          |            |
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| Dash Light - Blue               | 31986      | 5        | 7-29       |
| Dash Light - Blue               | 31986      | 5        | 7-30       |
| Dash Light - Green              | 31985      | 4        | 7-29       |
| Dash Light - Green              | 31985      | 4        | 7-30       |
| Dash Pin Lock Plate             | 1007333    | 13       | 7-28       |
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| Decal - Berm Height Indicator   | 1015362    | 19       | 7-49       |
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| Description                               | Part No.   | Item No. | Figure No. |
|---|------------|----------|------------|
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| Indicator Light - White                   | 1010500    | 6        | 7-30       |
| Inline Filter                             | 986537-31  | 11       | 7-20       |
| Inner Conveyor Drive Sprocket             | 850030SRV  | 6        | 7-6        |
| Inner Extension Assembly - Left           | 1007097SRV | 34       | 7-35       |
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| Inner Plate Assembly - Left               | 1006993    | 1        | 7-33       |
| Inner Plate Assembly - Right              | 1006994    | 2        | 7-33       |
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| Insulation, .25 x 1.00 x 12.00 w/Adhesive | 986522     | 11       | 7-36       |
| Intake Access Plate - Left                | 1016377    | 12       | 7-18       |
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| Jumper C3 Dash To Pedestal Harness        | 1016264    | REF      | 7-30       |
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| Jumper C4 Dash To Pedestal Harness        | 1016263    | REF      | 7-30       |
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| Jumper Heater Element Harness             | 1008877    | REF      | 7-30       |
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| Description                                     | Part No.    | Item No. | Figure No. |
|---|-------------|----------|------------|
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| Screed Control Box Mount                        | 1017803     | 4        | 7-41       |
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| Screed Extension Element Clamp                  | 985123      | 9        | 7-36       |
| Screed Extension Element Clamp                  | 985123      | 32       | 7-48       |
| Screed Extension Element Clamp                  | 985123      | 32       | 7-49       |
| Screed Extension Front Assembly - Left          | 1009634     | 1        | 7-35       |
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| Set Screw, HSKT, Cup, 3/8-16 x .75              | 113-6-16-12 | 6        | 7-52       |
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| Shaft, 3/8 CR x 1-1/2                           | 855496      | 3        | 7-39       |
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| Shaft, 3/8 CR x 1-1/2                           | 855496      | 3        | 7-41       |
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| Shaft, ø.688 x 43.50                            | 854447SRV   | 2        | 7-36       |

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