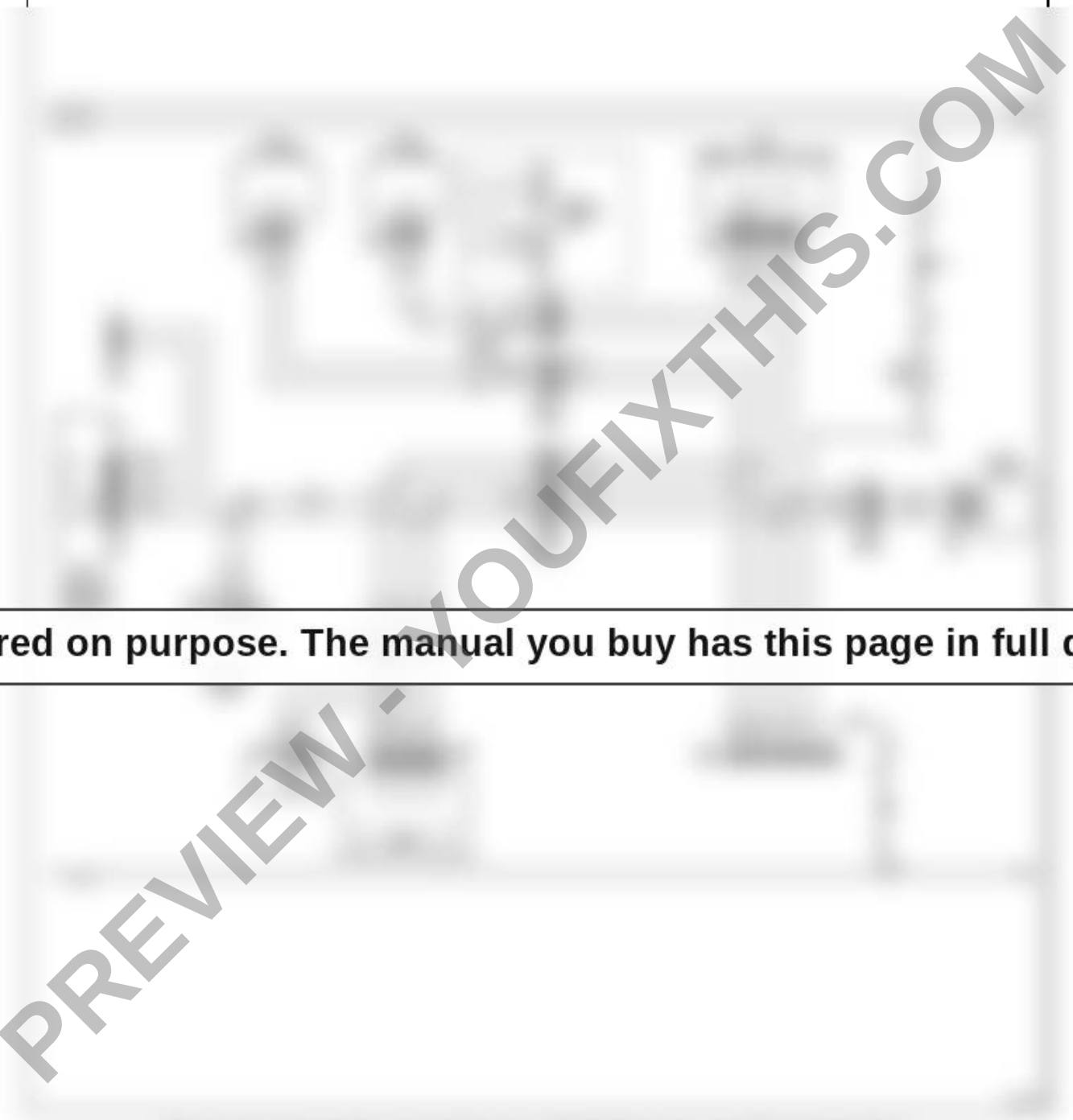
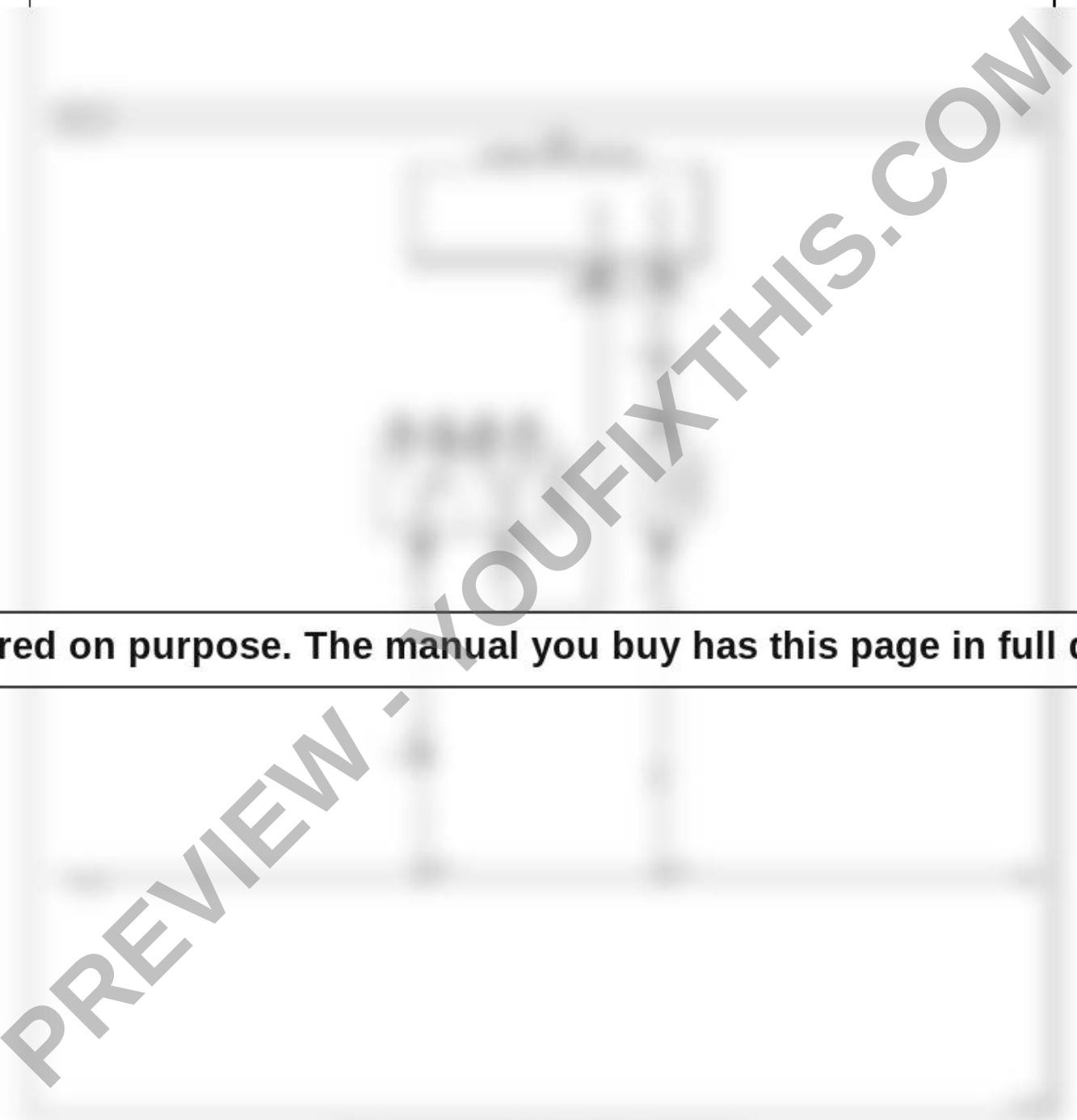


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Track Removal and Installation

See **Figures 1-6** and **1-7**.

WARNING

Prolonged contact with lubricating oil may cause skin rash. Remove saturated clothing immediately and thoroughly wash skin that comes in contact with lubricating oil. Failure to comply may result in injury or death to personnel.

WARNING

Grease in front idler assembly is under pressure. Remove grease fitting slowly and ensure all personnel is out of the path of the grease fitting when removing the track. Failure to comply may result in injury or death to personnel.

NOTE

Top sprocket may be removed to aid in track removal and installation.

1. Park machine safely. (See "**Park Machine Safely**" on **page 15**.)
2. Support machine securely. (See "**Support Machine Securely**" on **page 16**.)

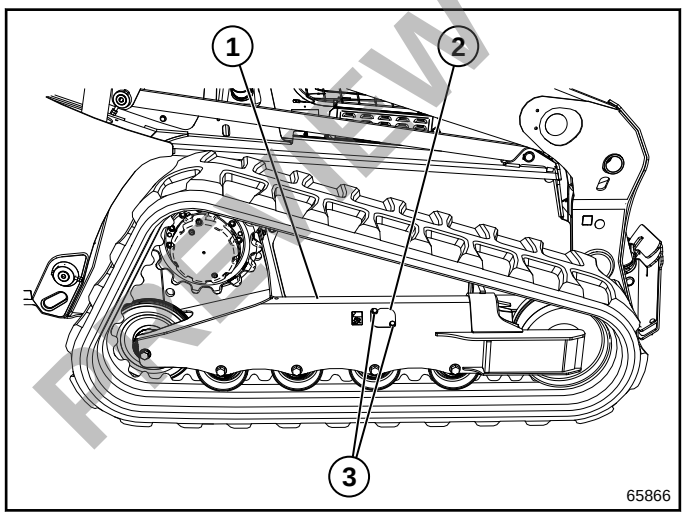


Figure 1-6: Track Removal and Installation

3. Remove bolts (3) securing grease fitting cover (2) from track assembly (1).

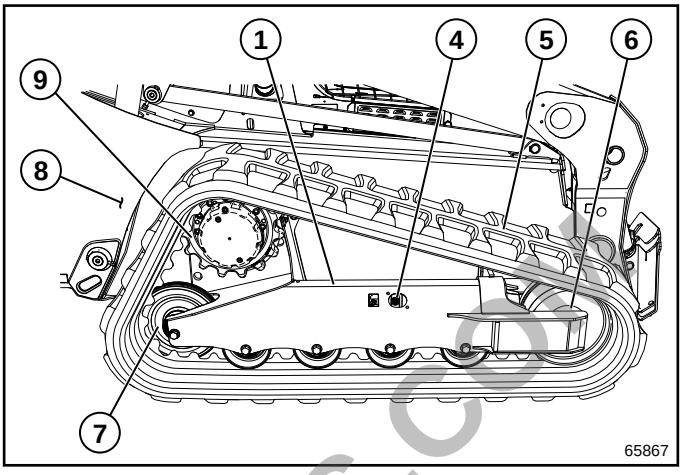


Figure 1-7: Track Removal and Installation

4. Remove grease fitting (4) from track assembly (1).

NOTE

A pry bar, ratchet strap, or cable puller can be used to move front idler assembly.

5. Using a suitable tool, move front idler assembly (6) towards the rear of the machine (8) until track tension has been released.
6. Pry the track (5) over the front idler assembly (6).
7. Pull the front of the track (5) away from the machine (8).
8. Pry track (5) away from rear idler (7), until the track (5) is clear of the rear idler (7).
9. With a suitable lifting device, remove track (5) from drive sprocket (9).
10. Remove track (5) from machine (8).

Installation Notes

- *Completely retract the front idler assembly.*
- *Install track by reversing the order of removal.*
- *Adjust track tension. (See "**Track Adjustment**" on **page 1-9**.)*

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HYDAC HY TTC-77 SPN/FMI
Danfoss MC024-130 SPN/FMI

WN MFL Error Code List - 27APR2017

SPN	SPN Description	FMI	FMI Description
517006	B007 - Hydraulic Oil Temperature Sensor	28	Pin 260 Short to Power or Open Circuit
517006	B007 - Hydraulic Oil Temperature Sensor	4	Short to Ground
517117	B116 - Boom Foot Pedal Primary Signal	3	Short to Power
517117	B116 - Boom Foot Pedal Primary Signal	4	Short to Ground
517117	B116 - Boom Foot Pedal (Primary or Redundant)	26	Signal Out of Range
517118	B117 - Bucket Foot Pedal Primary Signal	3	Pin 112 Short to Power
517118	B117 - Bucket Foot Pedal Primary Signal	4	Pin 112 Short to Ground
517118	B117 - Bucket Foot Pedal (Primary or Redundant)	26	Pin 112_119 Signal Out of Range
517123	B116 - Boom Foot Pedal Redundant Signal	3	Pin 120 Short to Power
517123	B116 - Boom Foot Pedal Redundant Signal	4	Pin 120 Short to Ground
517124	B117 - Bucket Foot Pedal Redundant Signal	3	Pin 119 Short to Power
517124	B117 - Bucket Foot Pedal Redundant Signal	4	Pin 119 Short to Ground
517125	B120 - Thumbwheel - Proportional Hydraulics 1 (L/+) Signal	3	Pin 114 Short to Power
517125	B120 - Thumbwheel - Proportional Hydraulics 1 (L/+) Signal	4	Pin 114 Short to Ground
517125	B120 - Thumbwheel - Proportional Hydraulics (1 (L/+) or 2 (R/-))	26	Pin 114 120 Signal Out of Range
517126	B120 - Thumbwheel - Proportional Hydraulics 2 (R/-) Signal	3	Pin 123 Short to Power
517126	B120 - Thumbwheel - Proportional Hydraulics 2 (R/-) Signal	4	Pin 123 Short to Ground
517127	B121 - Charge Oil Pressure Sensor	3	Pin 142 Short to Power
518989	S040 - Hydraulic Coupler Switch	24	Pin 108 141 Logic Error
519014	S065 - Park Brake Switch	24	Pin 121 144 Logic Error
519131	S104 - Operator Presence Switch	24	Pin 255 256 Logic Error
519131	S104 - Operator Presence Switch	29	Pin 255 256 Software Evaluation Error
519164	S215 - Seat Belt Switch	24	Pin 145 150 Logic Error
519352	Y003 - Two Speed Valve	4	Pin 135 Short to Ground
519352	Y003 - Two Speed Valve	28	Pin 135 Short to Power OR Open Circuit
519369	Y020 - Ride Control Activate Valve	4	Pin 268 Short to Ground
519369	Y020 - Ride Control Activate Valve	28	Pin 268 Short to Power OR Open Circuit
519374	Y025 - Hydraulic Coupler Valve	5	Pin 271 Open Circuit
519374	Y025 - Hydraulic Coupler Valve	6	Pin 271 Short to Power OR Short to Ground
519384	Y035 - Cooling Fan Valve	4	Pin 136 Short to Ground
519384	Y035 - Cooling Fan Valve	28	Pin 136 Short to Power OR Open Circuit
519392	Y043 - Park Brake Valve	4	Pin 139 Short to Ground
519392	Y043 - Park Brake Valve	28	Pin 139 Short to Power OR Open Circuit
519504	Y156 - Pilot Cutoff Valve	4	Pin 275 Short to Ground
519504	Y156 - Pilot Cutoff Valve	28	Pin 275 Short to Power OR Open Circuit
519505	Y157 - Boom Down Valve	4	Pin 269 Short to Ground
519505	Y157 - Boom Down Valve	28	Pin 269 Short to Power OR Open Circuit
519505	Y157 - Boom Down Valve	26	Pin 269 Signal Out of Range
519506	Y158 - Bucket Dump Valve	4	Pin 140 Short to Ground
519506	Y158 - Bucket Dump Valve	28	Pin 140 Short to Power OR Open Circuit
519506	Y158 - Bucket Dump Valve	26	Pin 140 Signal Out of Range
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	4	Pin 138 Short to Ground
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	28	Pin 138 Short to Power OR Open Circuit
519507	Y159 - Proportional Hydraulics 1 (L/+) Valve	26	Pin 138 Signal Out of Range
519508	Y160 - Boom Up Valve	4	Pin 276 Short to Ground
519508	Y160 - Boom Up Valve	28	Pin 276 Short to Power OR Open Circuit
519508	Y160 - Boom Up Valve	26	Pin 276 Signal Out of Range
519509	Y161 - Bucket Curl Valve	4	Pin 161 Short to Ground
519509	Y161 - Bucket Curl Valve	28	Pin 161 Short to Power OR Open Circuit
519509	Y161 - Bucket Curl Valve	26	Pin 161 Signal Out of Range
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	4	Pin 137 Short to Ground
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	28	Pin 137 Short to Power OR Open Circuit
519510	Y162 - Proportional Hydraulics 2 (R/-) Valve	26	Pin 137 Signal Out of Range
519515	Y167 - High Flow Valve	5	Pin 273 Open Circuit
519515	Y167 - High Flow Valve	6	Pin 273 Short to Power OR Short to Ground
519516	Y168 - Ride Control Balance Valve	4	Pin 129 Short to Ground
519516	Y168 - Ride Control Balance Valve	28	Pin 129 Short to Power OR Open Circuit
519517	Y169 - Self Level Valve	4	Pin 130 Short to Ground
519517	Y169 - Self Level Valve	5	Pin 130 Short to Power OR Open Circuit
519527	K161 - 14-Pin Front Electric "C" Relay Coil	3	Pin 134 Short to Power
519527	K161 - 14-Pin Front Electric "C" Relay Coil	4	Pin 134 Short to Ground
519527	K161 - 14-Pin Front Electric "C" Relay Coil	5	Pin 134 Open Circuit
519528	K162 - 14-Pin Front Electric "D" Relay Coil	3	Pin 133 Short to Power
519528	K162 - 14-Pin Front Electric "D" Relay Coil	4	Pin 133 Short to Ground
519528	K162 - 14-Pin Front Electric "D" Relay Coil	5	Pin 133 Open Circuit
519529	K163 - 14-Pin Front Electric "E" Relay Coil	3	Pin 132 Short to Power
519529	K163 - 14-Pin Front Electric "E" Relay Coil	4	Pin 132 Short to Ground
519529	K163 - 14-Pin Front Electric "E" Relay Coil	5	Pin 132 Open Circuit
519530	K164 - 14-Pin Front Electric "F" Relay Coil	3	Pin 131 Short to Power
519530	K164 - 14-Pin Front Electric "F" Relay Coil	4	Pin 131 Short to Ground
519530	K164 - 14-Pin Front Electric "F" Relay Coil	5	Pin 131 Open Circuit

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SAE Standard Fasteners Torque Limits

⚠ CAUTION

If replacement cap screws are of a higher grade than originally supplied, use torque specifications for original cap screw. Failure to

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Self Level Circuit—Theory of Operation

Unswitched Power Circuit

Unswitched power is available from the battery positive

(XE06) terminal 05 provides a ground for the park brake release solenoid (Y043) terminal 2, energizing the solenoid.

With the interlock circuit complete, all hydrostatic and hydraulic functions become active.

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Service Schedule

	Hours												
	50	**500**	**1000**	**1500**	**2000**	**2500**	**3000**	**3500**	**4000**	**4500**	**5000**	**5500**	**6000**
Engine Oil and Filter [1]		X	X	X	X	X	X	X	X	X	X	X	X
Engine Air Filter (or as required by plugged filter indicator)		X	X	X	X	X	X	X	X	X	X	X	X
Hydraulic Filter	X		X		X		X		X		X		X
Hydraulic Oil			X		X		X		X		X		X
Chain Tank Oil			X		X		X		X		X		X
Compact Track Loader (CTL) Drive Motor Case Oil			X		X		X		X		X		X
Main Fuel Filter [1]		X	X	X	X	X	X	X	X	X	X	X	X
Lift Pump Filter[1]		X	X	X	X	X	X	X	X	X	X	X	X
Engine Antifreeze[2]			X		X		X		X		X		X
Engine Water Pump V-Drive Belt[3] (1.9 and 2.5 ltr engines)		X	X	X	X	X	X	X	X	X	X	X	X
Engine Water Pump Poly-V Drive Belt[3] (3.4 ltr engines)			X		X		X		X		X		X
Case Drain Strainer (clean)			X		X		X		X		X		X
Coolant Hoses											X		
Hydraulic Hoses[3]					X				X				X
SSL Drive Chain Tension (Check and adjust as needed)		X	X	X	X	X	X	X	X	X	X	X	X
CTL Track Tension (Check and adjust as needed)	X	X	X	X	X	X	X	X	X	X	X	X	X

[1]or 12 months if hours are not reached

[2]or 24 months if hours are not reached

[3]or 36 months if hours are not reached

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Notes
Special notes are given in order to draw attention to detailed instructions. These notes are intended to give further important information regarding the machine and/or a step in a procedure.

Troubleshooting
Troubleshooting charts are provided in each chapter to aid in the diagnostic process. Use these suggestions to aid in identifying a potential mechanical or machine adjustment problem.

Safety

Introduction

Safety is the most important element of any repair procedure. Knowledge of the procedure to be performed and safe work habits are essential to preventing death, personal injury, or property damage. Use the following statements as a common-sense guide to proper work and tool-use habits.

Preparing for the Job

Preparation is essential to complete a procedure in a safe and efficient manner.

Service Training

- Read and understand the instructions contained in all manuals delivered with the machine.
- Familiarize yourself with the location and proper use of all controls and safety devices.
- Only trained personnel shall troubleshoot or repair problems occurring with the machine. Contact Wacker Neuson for additional training if necessary.
- Visit http://www.wackerneuson.us/en/support-usa/technical-training.html for more information.

Repair Person Qualifications

- Work on the electric system and equipment on the undercarriage and the steering and brake systems may be performed only by skilled individuals who have been specially trained for such work.
- Work on the hydraulic system of the machine must be performed only by a technician with special knowledge and experience in hydraulic equipment.

Personal Protective Equipment (PPE)

Wear the following PPE while servicing or maintaining this machine:

- Close-fitting work clothes that do not hinder movement.
- Safety glasses with side shields.
- Hearing protection.
- Safety-toed footwear.
- In addition, before servicing or maintaining the machine:
  - Tie back long hair.
  - Remove all jewelry (including rings).

Personal Safety Measures

- Follow the specific safety instructions in this manual.
- Block or support the machine parts that may move or fall prior to making repairs.
- Apply special care when working on the fuel system due to increased risk of fire.
- Engine block and muffler system become very hot during operation and require cool-down time after machine is shut off. Avoid contact with hot parts.
- Retainer pins can fly out or splinter when struck with force. Use a brass hammer or a suitable material between the hammer and pin.
- Do not use starting fluid (for example, ether), especially in those cases in which a heater or glow plug (intake air pre-heating) is used at the same time to reduce the risk of explosions.
- Always use specially designed or otherwise safety-oriented ladders and operating platforms to perform overhead assembly work. Never use machine parts or attachments/superstructures as a climbing aid.

Precautions

- Read and understand the service procedures before performing any service on the machine.
- Remain aware of the machine's moving parts. Keep hands, feet, and loose clothing away from the machine's moving parts.
- Reinstall the safety devices and guards after repair and maintenance procedures are complete.

Cleaning

- Ensure the machine is clean and free of debris such as leaves, paper, cartons, etc.
- Ensure all labels are legible.
- Do not clean the machine while it is running.
- Never use gasoline or other types of fuels or flammable solvents to clean the machine. Fumes from fuels and solvents can become explosive.

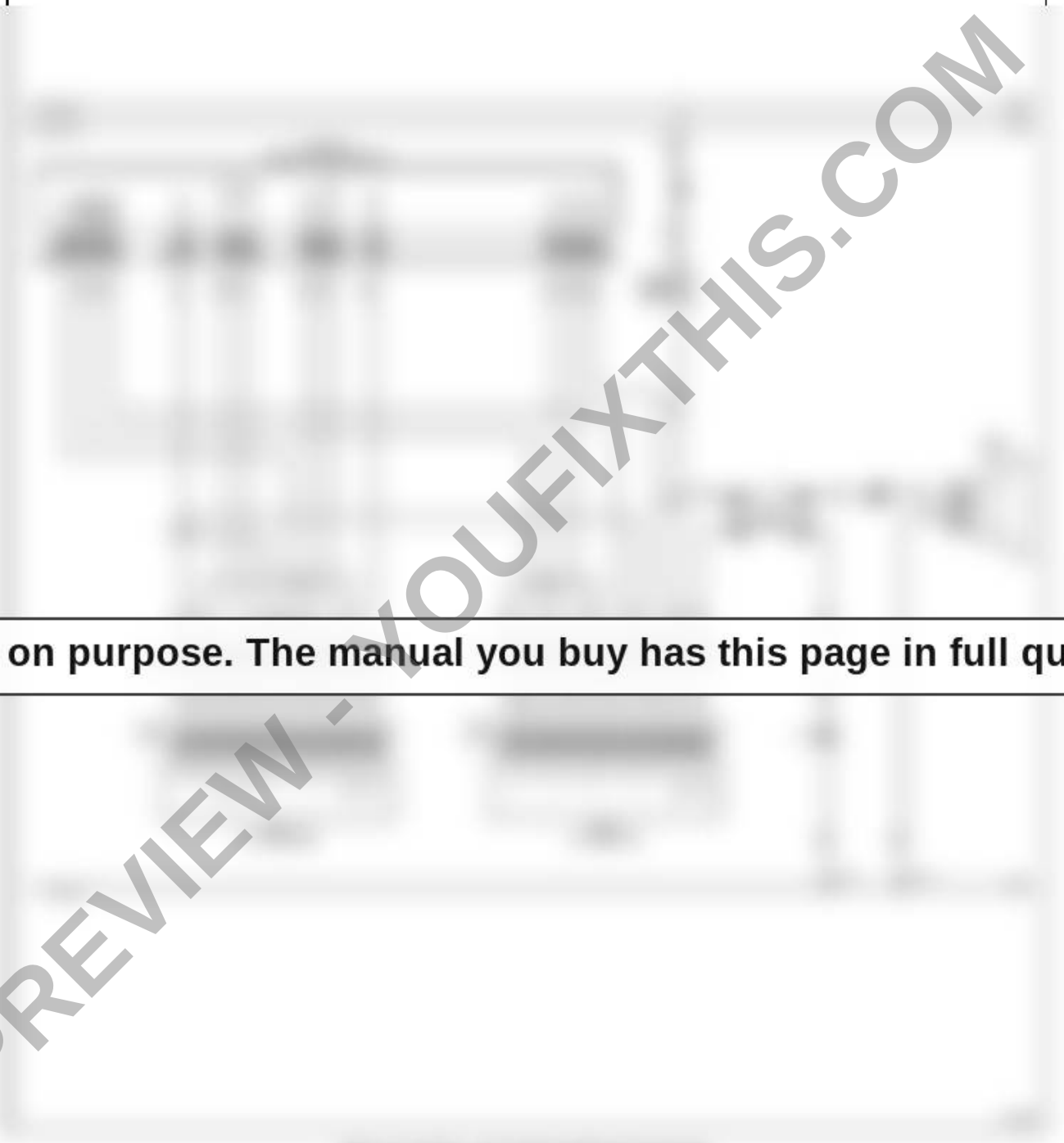
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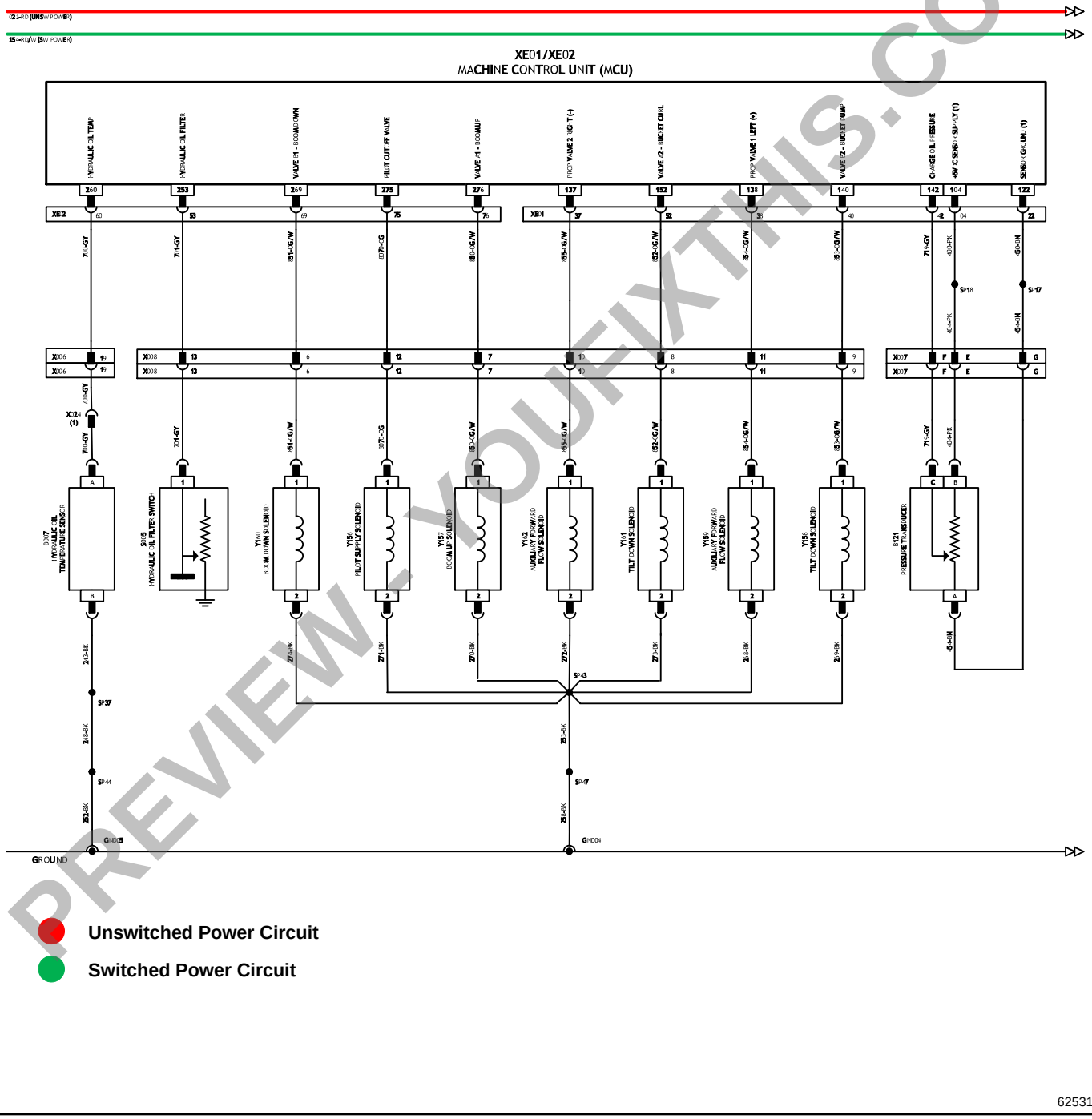


Figure 2-112: Hydraulics - Main

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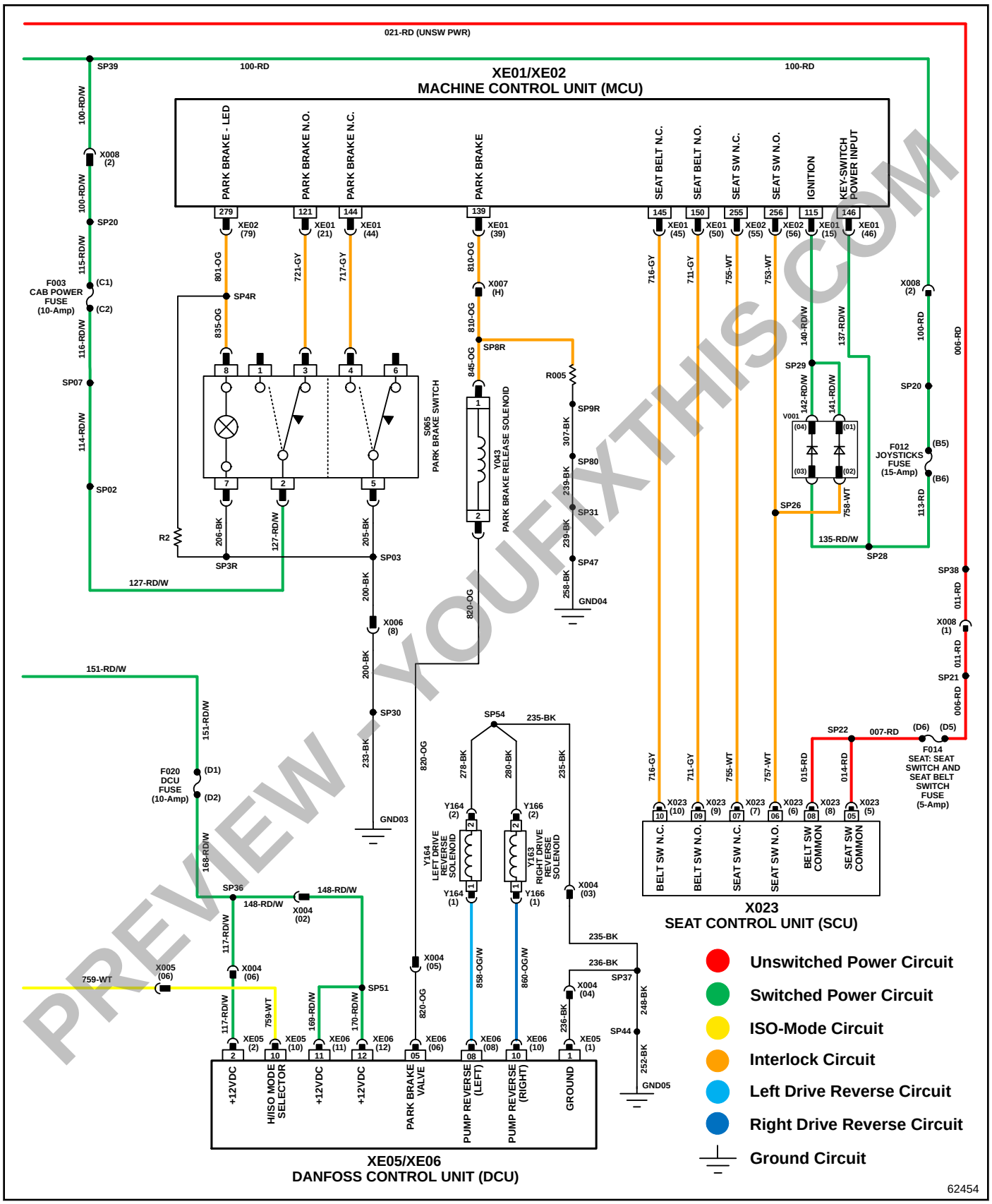


Figure 2-135

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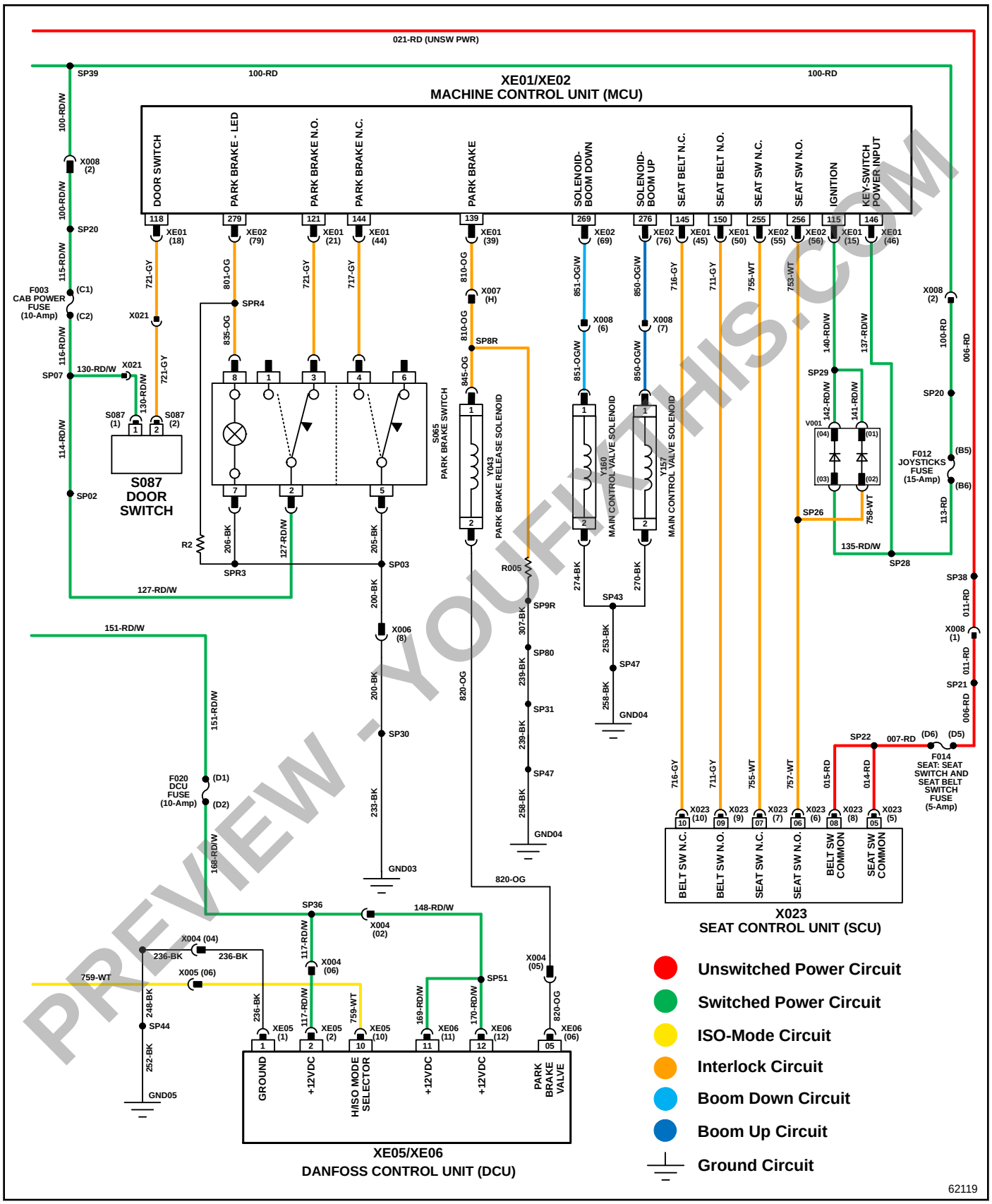


Figure 2-151

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Troubleshooting

Start Circuit

Symptom: Machine Does Not Start.

Probable Cause	Remedy
Faulty or weak battery (G1)	Check battery state of charge.
Faulty 100-amp main fuse (F000)	Replace 100-amp fuse. (See "**Removal and Installation**" on **page 2-304**.)
Loose or corroded battery cable ends and/or chassis grounds: GND01, GND02, GND04, GND05, and/or GND06	Check battery cable ends and/or chassis grounds for loose fit or corrosion.
Faulty or missing cab Power Distribution Module (PDM) fuse: key switch (F008)	Check fuses and replace with same specified current rating.
Faulty or missing chassis PDM fuse(s): starter (F017), engine (F018), and/or lift pump (F019)	Check fuses and replace with same specified current rating.
Faulty key switch (S001)	Test key switch. (See "**Key Switch Test**" on **page 2-275**.)
Faulty starter relay (K155)	Test starter relay. (See "**Relay Test**" on **page 2-273**.)
Faulty lift pump relay (K158)	Test lift pump relay. (See "**Relay Test**" on **page 2-273**.)
Faulty main power relay (K902)	Test main power relay. (See "**Relay Test**" on **page 2-273**.)
Loose or corroded connectors at starter solenoid and/or starter motor	Check for loose or corroded connectors at starter solenoid and/or starter motor. Repair as needed.
Faulty starter	Replace starter. (See"**Starter**" on **page 2-293**.)

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Standard Instrument Display

Removal and Installation

See **Figures 2-213** and **2-214**.

1. Park machine safely. (See "**Park Machine Safely**" on **page 15**.)
2. Open engine cover.
3. Disconnect negative battery cable at battery. (See "**Battery**" on **page 2-291**.)

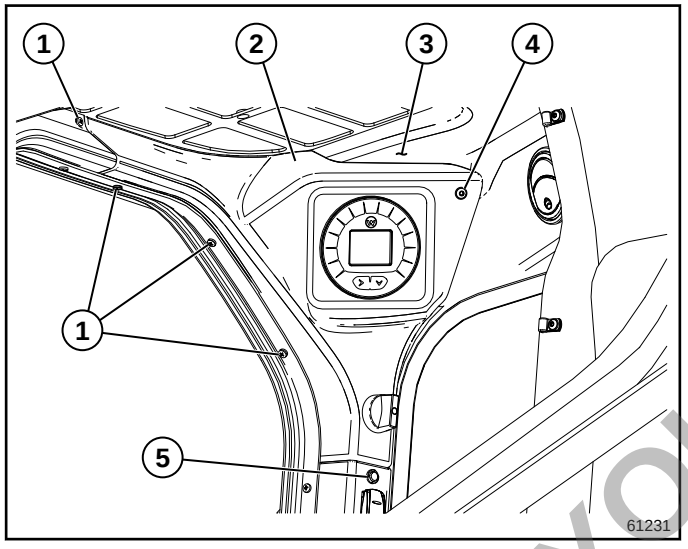


Figure 2-213: Panel Removal and Installation

4. Remove bolt (4) from panel (2).
5. Remove plastic rivet (5) from panel (2).
6. Remove four screws (1) and panel (2) from cab (3).

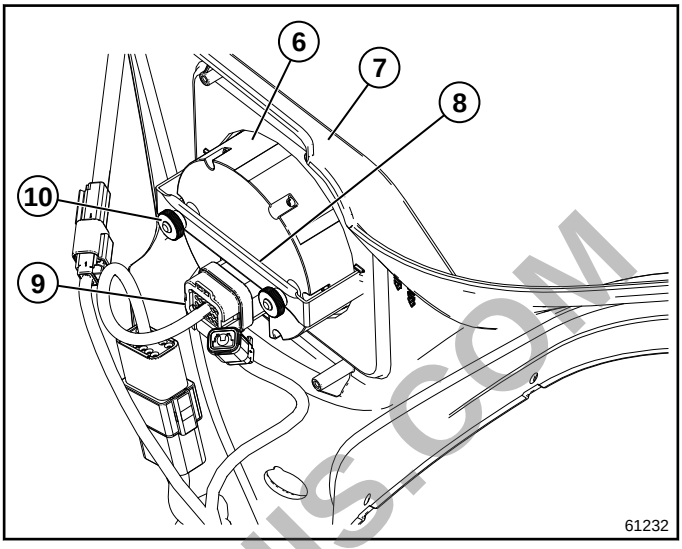


Figure 2-214: Standard Instrument Display Removal and Installation

7. Disconnect connector (9) from standard instrument display (6).
8. Remove two screws (10), bracket (8), and standard instrument display (6) from panel (7).

Installation Note

Install the standard instrument display by reversing the order of removal.

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Drive Circuit—Reverse Theory of Operation (Manual Controls)

System Conditions:

- Engine running
- Park brake released

Hydrostatic Drive Pump Charge Circuit

The hydrostatic drive pump and gear pump are driven by the engine. Oil is drawn from the gear pump inlet into section 2 of the gear pump to generate flow at the outlet. The oil is then routed through the fan motor and then through a 3 micron hydraulic oil filter. The filtered oil enters port E of the hydrostatic drive pump. The charge pump flow exceeds demand causing the internal charge relief to open thereby regulating the charge pressure at port E. The charge oil is available at the hydrostatic drive pump ports A, B, C, and D, and is routed to ports A and B of both drive motors.

Reverse Theory of Operation

With the joystick(s) pulled back, drive pressure oil is directed out from ports A and C of the hydrostatic drive pump. The oil is then routed to port B of the right drive motor and port A of left drive motor, driving the motors in a direction to achieve reverse movement of the machine. Clockwise for the left motor and counter-clockwise for the right motor. Return oil exits through port B of the left drive motor and port A of the right drive motor, and is returned to the hydrostatic drive pump through ports B and D to replenish the intake side of the right and left drive pumps. Drain oil is returned from port L of both drive motors to a 100 micron filter in the case drain manifold. The oil is routed through the cooling assembly and back to the hydraulic oil tank.

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Park Brake Circuit Test

See **Figures 3-27** and **3-28**.

WARNING

Hydraulic system operates at high pressures and temperatures. Always allow hydraulic oil to cool and relieve pressure in hydraulic reservoir before working on hydraulic system. Wear eye protection and gloves to prevent injury. Open lines and hoses slowly and wait for any residual pressure to relieve before continuing to open lines and hoses. Failure to comply may result in injury or death to personnel.

WARNING

Prolonged contact with lubricating oil may cause skin rash. Remove saturated clothing immediately and thoroughly wash skin that comes in contact with lubricating oil. Failure to comply may result in injury or death to personnel.

WARNING

Spilled hydraulic oil is slippery and creates a hazardous condition. Clean up and properly dispose of hydraulic oil. Failure to comply may result in injury or death to personnel.

CAUTION

Wipe clean area around all fluid connections prior to removal. Cap and plug all hoses, lines, fittings, and ports during removal to prevent contamination of system components. System must be kept clean from contaminants. Failure to comply may result in damage to equipment.

NOTES

- *Position drain pan under hoses being removed.*
- *Tag and mark hoses and fittings prior to removal to ensure proper installation.*
- *Inspect O-rings upon removal for wear or damage and replace as necessary.*
- *Cap and plug hoses and fittings during removal.*

1. Park machine safely. (See "**Park Machine Safely**" on **page 15**.)

WARNING

Always ensure boom is secured with safety strut when raising boom. Failure to secure boom with safety strut may result in death or serious injury.

2. Raise boom and secure with safety strut.

WARNING

Always ensure cab is secured with safety strut when raising cab. Failure to secure cab with safety strut may result in death or serious injury.

3. Raise cab and secure with safety strut.

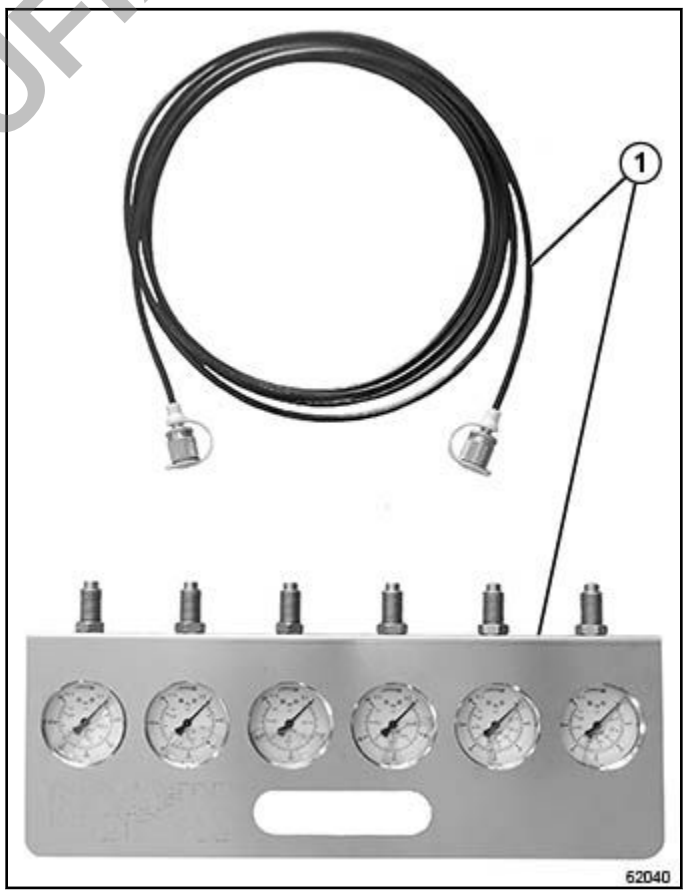
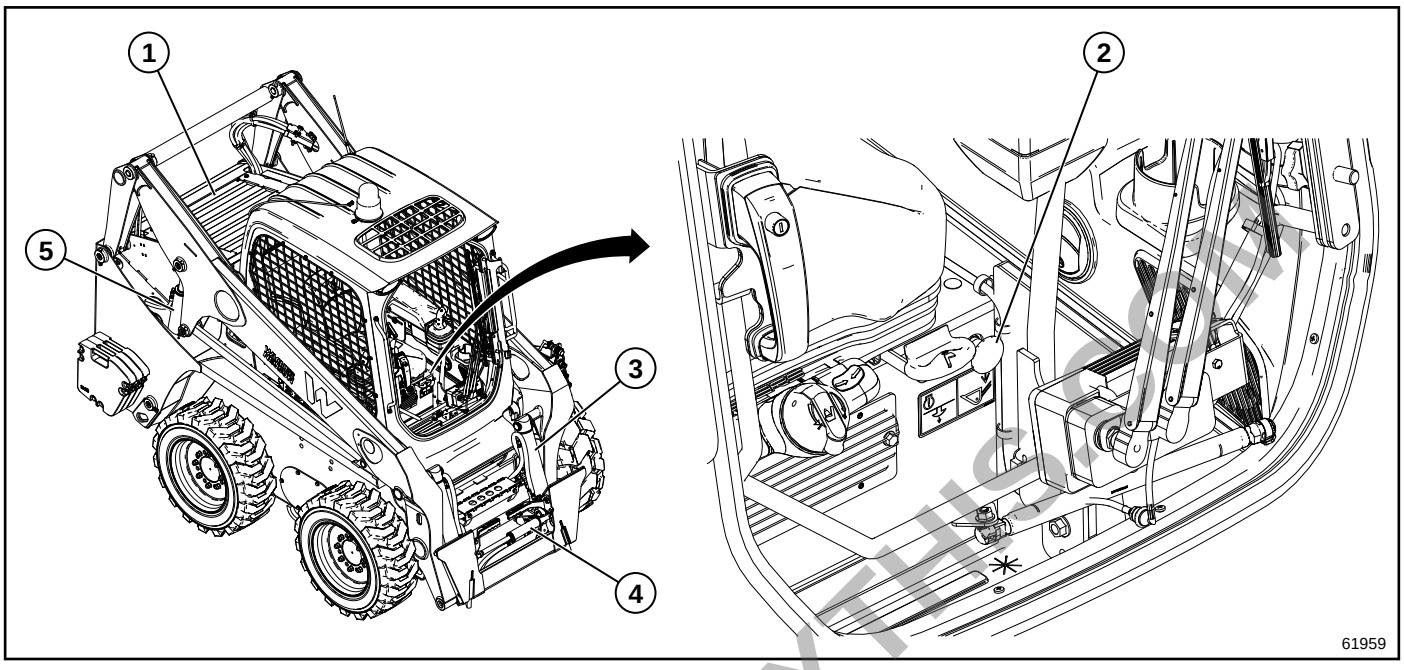


Figure 3-27: Pressure Gauge

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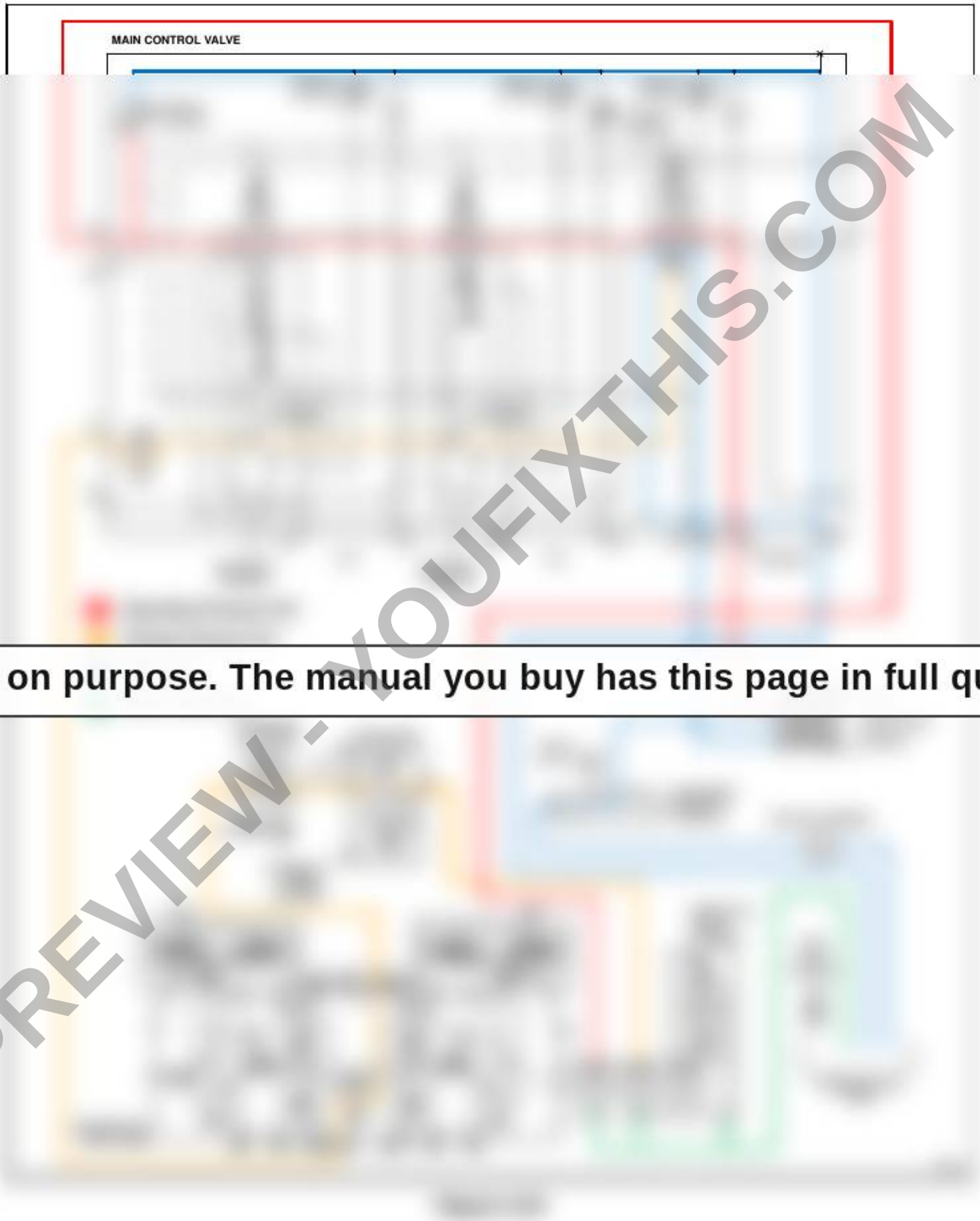
1. COOLING ASSEMBLY
2. MECHANICAL BOOM LOWER VALVE
3. BUCKET CYLINDER
4. POWER COUPLER CYLINDER (OPTIONAL)
5. BOOM CYLINDER

Figure 4-6: SSL Component Location

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Auxiliary Hydraulics Male Coupler Circuit Schematic



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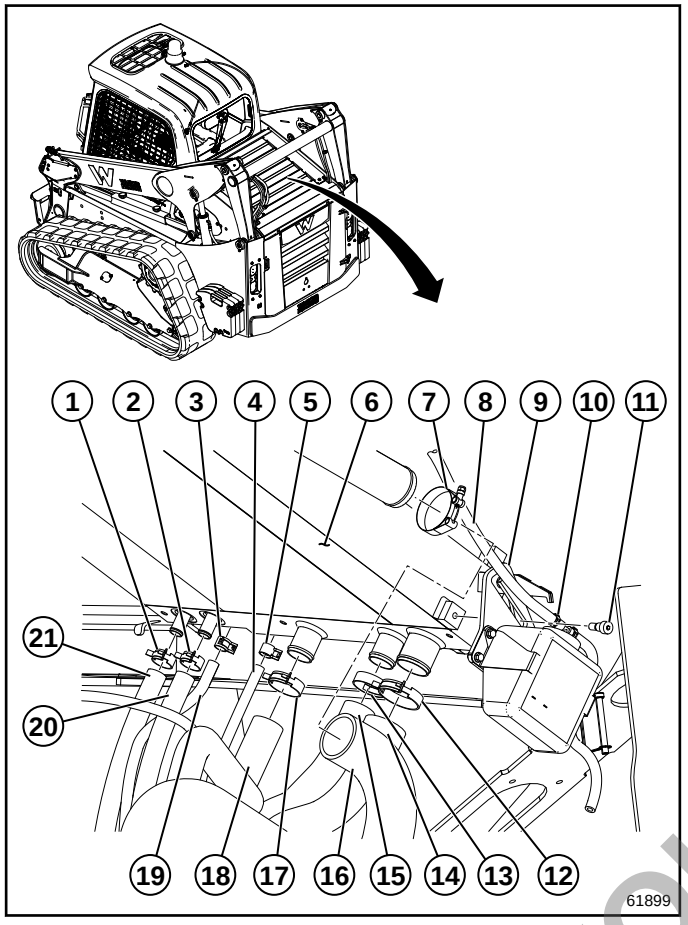


Figure 4-50: Cooling Assembly Hoses Removal and Installation

9. Remove clamp (10) and hose (8) from cooling assembly (6).
10. Remove clamp (7) and hose (16) from cooling assembly (6).
11. Remove clamp (12) and hose (14) from cooling assembly (6).
12. Remove clamp (13) and hose (15) from cooling assembly (6).
13. Remove clamp (17) and hose (18) from cooling assembly (6).
14. Remove clamp (5) and hose (4) from cooling assembly (6).
15. Remove clamp (3) and hose (19) from cooling assembly (6).
16. Remove clamp (2) and hose (20) from cooling assembly (6).
17. Remove clamp (1) and hose (21) from cooling assembly (6).
18. Remove bolt (11) and radiator prop (9) from cooling assembly (6).

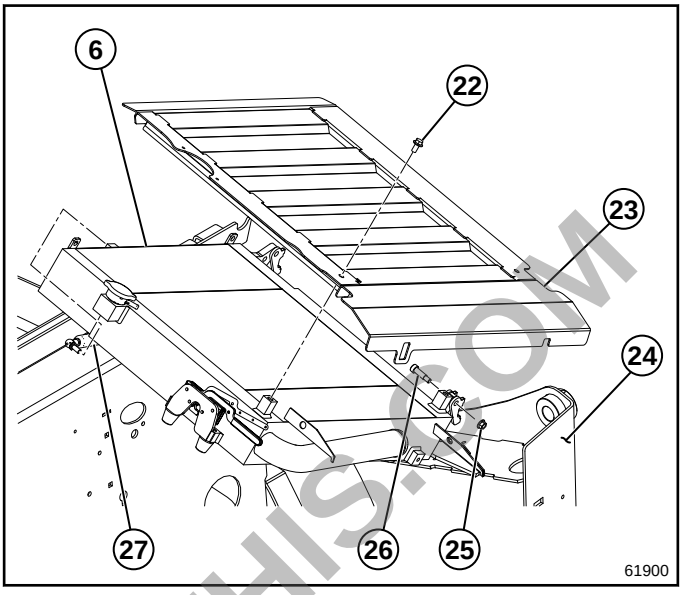


Figure 4-51: Cooling Assembly Removal and Installation

19. Remove two bolts (22) and radiator cover (23) from cooling assembly (6).
20. Disconnect strut (27) from cooling assembly (6).
21. Attach suitable lifting device to cooling assembly (23).
22. Using lifting device, remove two nuts (25), bolts (26), and cooling assembly (6) from machine (24).

Installation Notes

- *Install the cooling assembly by reversing the order of removal.*
- *Replace hydraulic oil filter. (See "**Hydraulic Oil Tank Drain/Fill Procedure**" on **page 4-63**.)*
- *Refill hydraulic oil tank using approved hydraulic oil. See (**Hydraulic Oil Tank Drain/Fill Procedure**.)*
- *Fill the radiator with a 50/50 mixture of good quality ethylene glycol-base anti-freeze and clean fresh water.*
- *Start engine. Check hydraulic system and cooling system for leaks. Repair as necessary.*
- *Check hydraulic oil and add if necessary.*
- *Check engine coolant and add if necessary.*

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Figure 5-14: EDC Threshold Tuning Screen

5

18. If the left tack/tires begin to rotate continuously without stopping, decrease the Left Forward value by 5 mA – 20 mA. To decrease the value, click in the Left Forward box (4) on the EDC Threshold Tuning screen, type in the value, click the Write Value to Drive Controller Memory button (5), then click OK to accept the change.

19. If the left tack/tires do not rotate continuously without stopping, increase the Left Forward value. To increase the value, click in the Left Forward box on (4) the EDC Threshold Tuning screen, type in the value, click the Write Value to Drive Controller Memory button (5), then click OK to accept the change. The rotation should be very slow and without stopping.

20. Once the tracks/tires continuously rotate, reduce the setting by 5 mA.

21. Make sure the track/tires cannot rotate continuously. If the track/tires do not rotate continuously, the threshold value is properly set.

22. Repeat Steps 17 through 21 for Left Reverse, Right Forward, and Right Reverse.

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