RT175
RT175 Gen:2
RT210
RT210 Gen:2
RT250

Compact Track Loader

GEHL®

Form No.
50940164
Revison B
April 2014

Supersedes
50940021

Service Manual



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- Vary traffic patterns to avoid exposure to rough terrain.

4. Maintain equipment. Check that seat suspension and all controls work smoothly and properly.

Vibration Levels

See “Vibration Levels” on page 44 for a table listing typical whole-body vibration levels for the machine.

Fire Extinguisher

An installation location for a fire extinguisher is on the shelf between the rear window and the operator's seat (Z, Fig. 2).

NOTE: *A fire extinguisher is neither included as standard equipment nor available as an option from Manitou Americas, Inc.*

IMPORTANT: *Inspect the fire extinguisher at regular intervals as recommended by the fire extinguisher equipment manufacturer(s).*



Fig. 2 – Location for Fire Extinguisher

Manufacturer Information

Products described in this manual are manufactured by Manitou Americas, Inc.

NOTE: *Not all models and options described in this manual are available in all areas.*

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ISO-Style Safety Decals

A



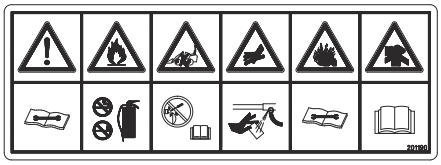
(Located inside the engine compartment)

Warning Decal

WARNING: ROTATING FAN / HOT SURFACEs

- Keep hands out or stop engine.
- Do not touch hot engine or hydraulic system parts.

B



(Located inside the engine compartment)

Warning Decal

WARNING: AVOID INJURY OR DEATH

- Read the Operator's Manual before performing any maintenance on the machine.
- Do not smoke while fueling or servicing machine. Keep sparks and open fames away from the engine compartment to avoid fire. Keep fire extinguisher nearby.
- Never attempt to bypass the keyswitch to start the engine. Use only the proper jump-starting procedure according to the Operator's Manual.
- Do not use hand to find hydraulic leaks. Escaping oil under pressure can be invisible and penetrate skin.
- Allow radiator to cool before removing cap. Loosen cap slowly to avoid burns.
- Exhaust fumes can kill. Do not operate the machine in an enclosed area without adequate ventilation.

C



(Located on the bottom of the ROPS / operator's platform and to the left of the rear cab window just above the ROPS tilt lock.)

Crush Hazard / Read Operator's Manual Decal

WARNING

- Be sure lock mechanism is securely engaged before working under ROPS.
- Read instructions for use in Operator's Manual.

D



(Located by the floor pan inside the cab, and on the manual box cover behind the operator's seat)

Read Operator's Manual Decal

WARNING: AVOID INJURY OR DEATH

- Read Operator's Manual and all safety signs before using, maintaining or servicing the machine.
- The owner is responsible to ensure all users are instructed on safe use and maintenance.
- Contact the manufacturer for information and service parts.

E



(Located on the inside of the right door pillar inside the cab)

Avoid Injury/Death/Overturn Decal

DANGER: AVOID INJURY OR DEATH

- Keep out from under lift arm unless lift arm is supported. See "Lift Arm Support" on page 99
- ALWAYS wear seatbelt.
- Operate only from operator's seat.
- Look in direction of travel. Keep children and bystanders away.

WARNING: AVOID INJURY OR DEATH

- Read Operator's Manual and all safety signs before using, maintaining or servicing the machine.

1. Lower equipment to the ground.
2. Reduce throttle, stop engine.
3. Apply park brake; remove key.
4. Check safety interlocks.

WARNING: AVOID OVERTURN

- Read Operator's Manual and all safety signs before using, maintaining or servicing the machine.
- Carry load low.
- Do not exceed Rated Operating Capacity.
- Avoid steep slopes and high speed turns.
- Travel up and down slopes with heavy end uphill.

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Features

Standard Features

Table 18: Features : Standard Features

All-Tach® attachment mounting system	Dual-element air cleaner with indicator
Engine alert system with error code display	Elevated planetary final drives with SAHR disc brakes
Back-up alarm	Maintenance-free track rollers
Self-leveling hydraulic lift action	EH-controlled hydrostatic drive
Auxiliary hydraulics - proportional electric control/continuous flow	Hand and foot throttles
HydraTrac™ automatic track tensioning system	Combination radiator and hydraulic oil cooler
12-volt battery	5x5 drive control system - 5 drivability/responsiveness programs
Grid/manifold heater starter assist - automatic/manual	Interlock system for lift, tilt cylinders, auxiliary hydraulic functions and drives
Yanmar liquid-cooled diesel engine	Mechanical lift cylinder support
Horn	Rubber track undercarriage system
Independent hydraulic reservoir and cooler	Tilt-out foot pod - easy clean out
Joystick (electric-hydraulic) "hands-only" ISO controls	Vandalism lock provisions
Restraint bar and retractable seat belt	Single flange front / dual flange rear idlers
ROPS/FOPS - Level 2-approved	Two front and two rear halogen lights
Multi-function display screen - warning lights, gauges and configuration	Full-suspension seat - 6-way adjustable seat, controls and armrests
Two-speed hydrostatic drive system	Seat mounted controls and switches
Engine automatic shutdown system - low oil pressure	

Optional Features

Table 19: Features : Optional Features

Hydraglide™	High-flow auxiliary hydraulics
Cab enclosure	Air conditioning/HVAC with defrost
Swing-out door	High-capacity counterweight
Dual-hand (case controls)/ISO controls - selectable	Engine intake pre-cleaner
Power-A-Tach® attachment mounting system	AM/FM radio
Speed control, variable - selectable On/Off	Impact resistant swing-out door
Selectable (On/Off) self-leveling hydraulic lift action	Air suspension seat
Engine block heater	Strobe light

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Push and hold top (B) of wiper switch (C) to activate the washer spray. Release the button to stop the spray.

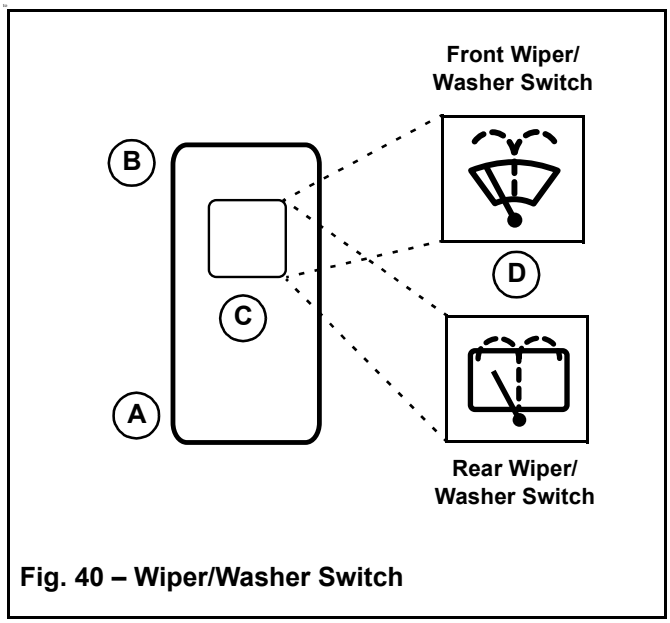


Fig. 40 – Wiper/Washer Switch

Washer Fluid Reservoir

See “Windshield Washer Reservoir” on page 158 for windshield washer reservoir location and filling information.

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5. Relieve the pressure in the standard auxiliary hydraulics circuit by pushing the attachment coupler firmly into the auxiliary coupler.
6. Continue to push the hose connections firmly onto the auxiliary hydraulic connections until they snap into place.

⚠ CAUTION

Route the hydraulic hoses so they do not get pinched when the attachment is tilted forward and back. Damaged or burst hydraulic hoses could result.

IMPORTANT: *Always check hydraulic function of the attachment before use, to make sure the hydraulic hoses have not been installed in reverse.*

NOTE: *Pressure build-up caused by heat in hydraulic attachments left in direct sunlight can make it difficult to connect the quick-couplers to the fittings on the attachment.*

Disconnecting Hydraulic Attachments from the Auxiliary Hydraulics Circuit

1. Empty the attachment and lower it to the ground.
2. Shut off the engine and turn off the ignition. Remove the ignition key and take it with you.
3. Raise the safety bars/arm rests to apply the parking brake.
4. Push on the hose connection locking rings until the hose connections release.

Auxiliary Hydraulics Operation

Standard-Flow Auxiliary Hydraulics Control

The toggle and trigger switches (A and B, Fig. 101) on the right joystick controls standard-flow auxiliary hydraulics.

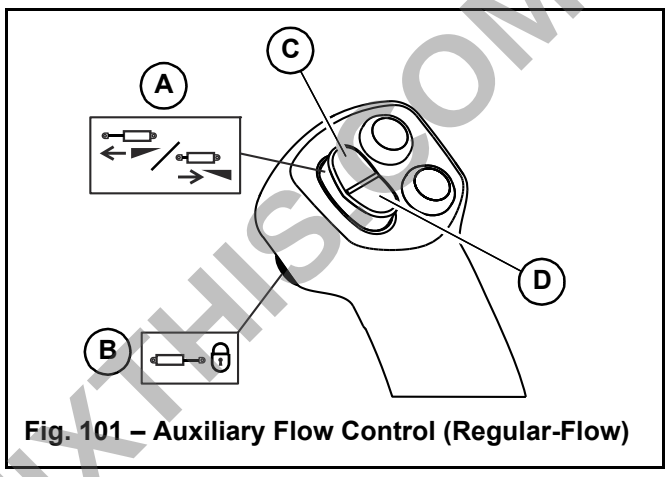


Fig. 101 – Auxiliary Flow Control (Regular-Flow)

Press the top (C) of toggle switch (A) to activate auxiliary hydraulics flow in one direction. Flow control is proportional: the flow rate increases as the toggle switch is moved further. Release the switch to stop the flow.

Press the bottom (D) of toggle switch (A) to activate auxiliary hydraulics flow in the opposite direction. Flow control is proportional: the flow rate increases as the toggle switch is moved further. Release the switch to stop the flow.

For continuous flow:

1. Move toggle switch (A) as far as it will go either forward or back – depending upon what direction flow is required.
2. While holding the toggle switch (A) at the full forward or full reverse position, press trigger button (B). Release trigger button first (B), then release toggle switch (A).

   NOTE: *Standard flow auxiliary hydraulics continuous flow can only be activated if toggle switch (A) is held in either the FULL forward or FULL reverse position.*

To stop continuous standard-flow, press and release trigger switch (B).

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⚠ WARNING

Do not use bent, cracked, or otherwise damaged fork arms/pallet forks.

Always inspect pallet forks each time before using. Refer to the pallet fork manufacturer's documentation and/or contact the pallet fork manufacturer for information regarding safe pallet fork condition criteria:

- **Check the fork arm locks for proper function and/or damage. Do not use pallet forks with damaged locks or locks that do not function properly.**
- **Visually check the fork arm hooks and/or bends for cracks and/or deformations. Do not use fork arms that are cracked and/or have deformations that make the fork arms unsafe.**
- **Do not use fork arms that have bends or blades that have more than 10 percent of the original material worn away.**
- **Check the fork arms blades and tips for deformations or holes.**

Transporting Loads Using Pallet Forks

IMPORTANT: *When the self-leveling feature is on, the tilt angle of the attachment is kept constant when the lift arm is raised. When the lift arm is lowered, self-leveling is not activated. Refer to "Self-Leveling" on page 95 for more information about the self-leveling feature.*

Loading Pallet Forks

1. Stop the machine immediately in front of the material
2. Position the fork arms parallel to the ground.
3. Make sure the fork arms are adjusted as far apart as possible, as allowed by the load, and are both the same distance away from the center-line of the load.
4. Adjust the height of the fork arms to fit the lifting area at the bottom of the pallet.
5. Drive slowly and carefully forward until the fork frame contacts the material.
6. Make sure the pallet is evenly and safely positioned on the pallet fork arms.

Lifting Loads Using Pallet Forks

7. Apply the parking brake.
8. Slowly raise the pallet forks. Do not raise the pallet forks any higher than required. Make sure to not exceed pallet fork load center and/or lifting capacity.
9. Lower the load immediately if you are unsure of the load, the equipment, or in case of any unsafe circumstances.
10. Tilt the pallet fork frame back slightly, to help retain the load.

Transporting Load Using Pallet Forks

11. Make sure the area around and behind the machine is clear of bystanders and obstacles.
12. Slowly and carefully drive in reverse and lower the pallet forks to transport position ("Attachment Transport Position" on page 93), when it is safe to do so.

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NOTES

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Lift Arm and ROPS/FOPS

Lift Arm Removal

NOTE: *Some machines may vary slightly from what is shown in the photographs in this manual. Procedures are similar, however, in all cases.*

NOTE: *Label all hoses and note their locations before disconnecting to ensure correct installation.*

IMPORTANT: *Park the machine where the lift arm can be supported with a overhead hoist or similar device.*

NOTE: *Some loss of hydraulic oil will occur when disconnecting hydraulic hoses. Use absorbent mats to catch any dripping oil when disconnecting hoses. Cap and plug hydraulic lines after disconnecting.*

IMPORTANT: *Always dispose of hydraulic fluids according to environmental laws or take to a recycling center for proper disposal. DO NOT pour onto the ground or down a drain.*

1. Complete the Mandatory Safety Shutdown Procedure, with the exception of lowering the lift arm onto blocks (A, Fig. 175) to support the front of the lift arm. See "Mandatory Safety Shutdown Procedure" on page 20.

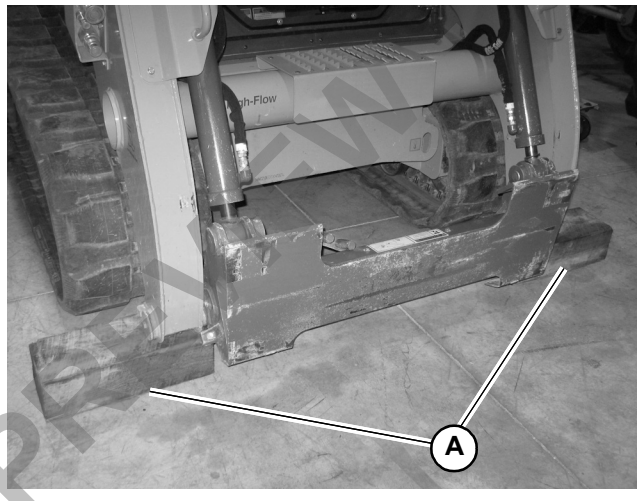


Fig. 175 – Lower Lift Arm Onto Blocks

2. Operate controls with the engine off, power on, to relieve hydraulic pressure.
3. Disconnect the negative cable from the battery.
4. Raise the ROPS/FOPS according to "Raising ROPS/FOPS" on page 144.

⚠ WARNING

Always secure the ROPS/FOPS in the tilted position with pins and spring pins. Never allow anyone under the ROPS/FOPS if the tilt securing pins are not in place.

5. Perform steps 5-a through 5-d for both lift cylinders.
   a. Remove locknut (B, Fig. 176) and screw (C) from lift cylinder pivot pin (D).

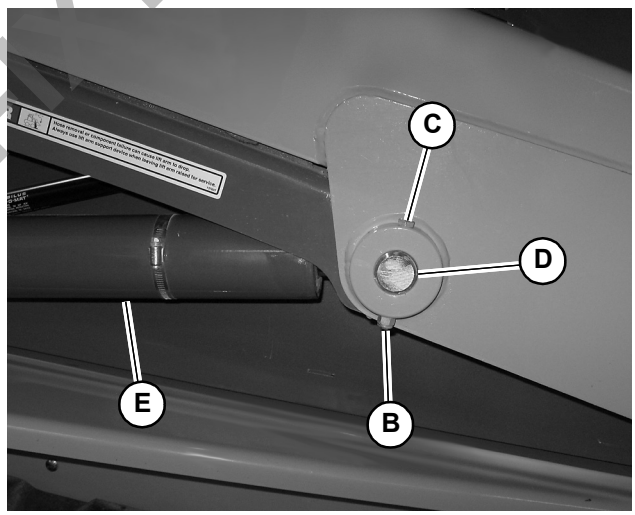


Fig. 176 – Disconnect Lift Cylinder from Lift Arm (Early serial numbers shown; later machines similar)

   b. Support lift cylinder (E).
   c. Drive pivot pin (D) out of lift cylinder (E) and lift arm.
   d. Lower lift cylinder (E), and support it using a block.
6. Lower the ROPS/FOPS according to "Lower ROPS/FOPS" on page 146.
7. Disconnect, cap, and plug left-side (standard) auxiliary hydraulic hoses (F and G, Fig. 177) and fittings.

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Electronics Diagnostic Kit

The Eaton Diagnostic Kit (order # 50301947) provides real-time telemetry information useful for troubleshooting compact track loader electronic propel and loader system functions.

Diagnostic Kit Operation

1. Plug the licensing dongle included in the kit into a USB port on the PC. The PC should detect the connected dongle.
2. Connect the CAN connector harness and the USB adapter together.
3. Plug the USB adapter into a USB port on the PC.
4. Twist the CAN data port cover (A, Fig. 514) and remove it from data port (D) on the bottom of the left console inside the compact track loader cab.

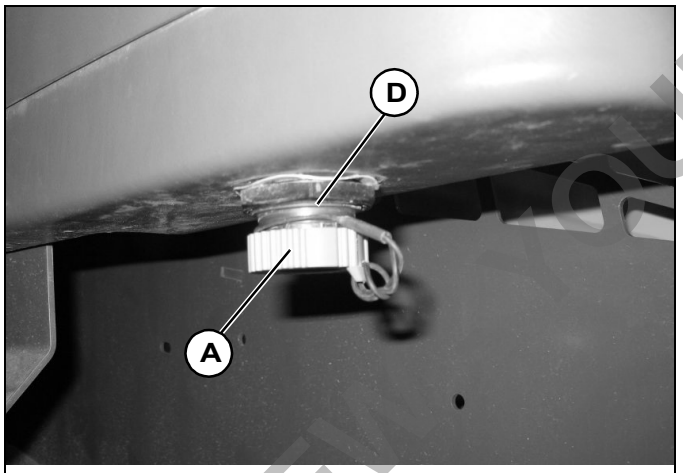


Fig. 514 – CAN Data Port Cover

5. Connect the CAN harness (B, Fig.) to data port (D). Twist locking collar (C) on the CAN harness connector to lock it in place on the data port.

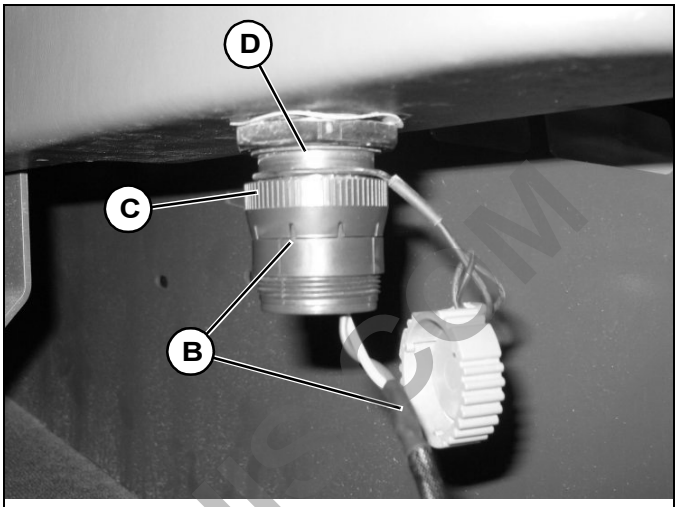


Fig. 515 – CAN Data Connection

6. Turn on the machine ignition.

   NOTE: *Machine engine does not need to be running for the software to run. The machine must be running, however, to display real-time telemetry information.*

7. On the PC, select “Start > All Programs > MotoTools > MotoService > MotoViewer”.
8. Once the application is running, select “Open” from the “File” menu.
9. Select and open the latest “ssl#.dis” file located at: “C:\ECUfiles\Displays\”.
10. A window containing real-time telemetry information about the compact track loader is displayed. Refer to the following page for details about the displayed information.
11. Disconnect CAN harness (B, Fig.) from data port (D) when finished. Replace CAN data port cover (A, Fig. 514) on the data port. Twist the cap to lock it in place on the data port.

    NOTE: *Replace cover (A) on data port (D) when the diagnostic kit is not in use to protect the data port from dust, dirt and damage.*

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Error Codes

The tables in this section describe error codes which may be reported on the multi-function display screen. More than one error can be reported at one time and each error code will display on a separate screen. Multiple errors will be reported on a summary screen. See “Multi-Function Display” on page 48.

Controller Communication Error Codes

NOTE: *See “Control Modules” on page 155 for controller locations.*

Table 27: Controller Communication Error Codes

Error Code	Error Description
1-2	No Communication between engine control module to display
1-3	No Communication between drive / lift arm / standard aux. flow control module to display
1-4	No Communication between display to main / drive control module
1-5	No Communication between multi-function control module to display
27	No CAN communication engine control module to main / drive control module
28	No CAN Communication main / drive control module to display
29	No CAN Communication drive / lift arm / standard aux. flow control module to main / drive control module

Engine Error Codes

Table 28: Engine Error Codes

Error Code	Engine Error Code Type	Error Description
29-0	Throttle position sensor “B”	Above normal operational range
29-1		Below normal operational range
29-2		Intermittent fault
29-3		Shorted to high source; short circuit to battery
29-4		Shorted to low source; Sensor error throttle sensor; signal range check low
29-8		Communication fault
51-3	(250 Series only) EGR valve actuator error	Actuator of the external EGR valve: short circuit to battery or open load; short cut to battery on ECU pin A19; actuator error EGR-Valve; internal error, Short cut to battery or open load; power reduction may result; power reduction may result
51-4		Actuator of the external EGR valve: the ECU detects a short circuit to ground; short cut to ground or battery on ECU pin A19; ECU voltage under limit; actuator error EGR-Valve; internal error, short cut to ground; throttle valve over-limit power reduction may result
51-5		Actuator error EGR-Valve; signal range check low, measured current is below target; actuator error EGR-Valve (2.9;3.6) or Throttle-Valve (6.1,7.8); internal error, Short cut to ground; power reduction may resultt
51-6		Actuator error EGR-Valve; signal range check high; Overload by short-circuit; internal error; load over limit; Short cut to battery or open load; power reduction may result

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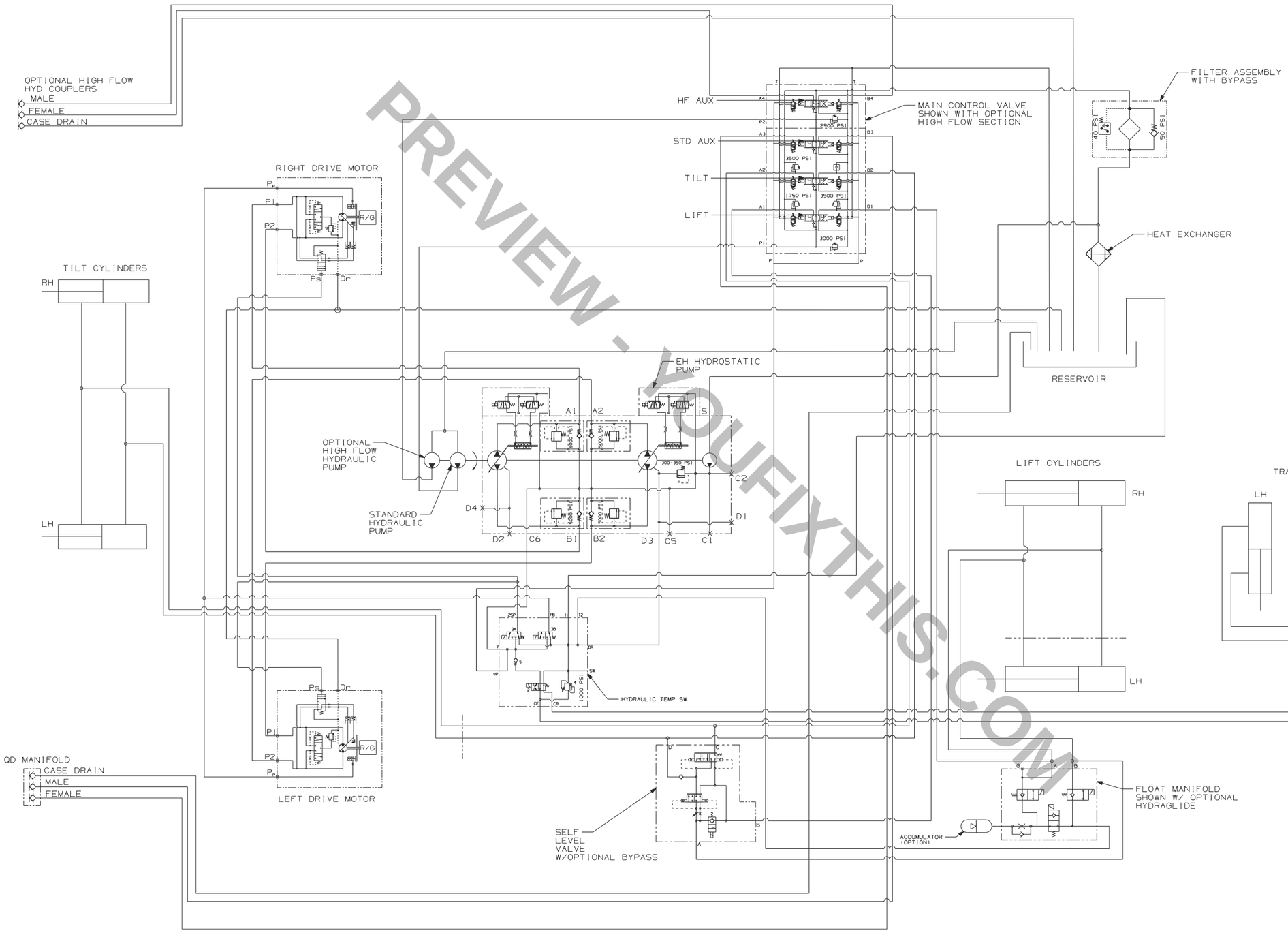
Table 29: Drive and Valve Error Codes

Error Code	Error Description
12	Tilt back valve solenoid A wiring or coil fault
13	Control valve upper auxiliary solenoid wiring or coil fault
14	Control valve lower auxiliary solenoid wiring or coil fault
15	Lift arm up control valve lower solenoid wiring or coil fault
16	Lift arm down control valve upper solenoid wiring or coil fault
22	Left joystick output data fault
23	Right joystick output data fault
24	No left joystick CAN communication
25	No right joystick CAN Communication
35	Swash plate sensor supply voltage fault
36	Battery voltage fault
37	Pump and tilt solenoid supply voltage fault
38	Limp mode (See “Travel Drive Error Condition Operation (Limp Mode)” on page 91)
39	Open loop mode (See “Travel Drive Error Condition Operation (Limp Mode)” on page 91)

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Hydraulic Schematic



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Torque Specifications

Note: Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread forming and sheet metal screws) unless specified otherwise.

Hydraulic fittings with various seals (light application). All torque values are in lb.-ft. (Nm) unless marked otherwise.

Thread	Straight pipe fitting with thread and screwed plug (GE)			Non-return valve with elastic seal	Identification aid outside Ø
	Sealing washer	Elastic seal	O-ring		
M10X1.0	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (10 mm)
M12X1.5	15 (20)	18 (25)	18 (25)	18 (25)	0.5 in. (12 mm)
M14X1.5	26 (35)	33 (45)	26 (35)	26 (35)	0.6 in. (14 mm)
M16X1.5	33 (45)	41 (55)	30 (40)	37 (50)	0.6 in. (16 mm)
M18X1.5	41 (55)	52 (70)	33 (45)	52 (70)	0.7 in. (18 mm)
M22X1.5	48 (65)	92 (125)	44 (60)	92 (125)	0.9 in. (22 mm)
M27X2.0	66 (90)	133 (180)	74 (100)	107 (145)	1.0 in. (27 mm)
M33X2.0	111 (150)	229 (310)	118 (160)	155 (210)	1.3 in. (33 mm)
M42X2.0	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (42 mm)
M48X2.0	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (48 mm)
G1/8A	7 (9)	13 (18)	11 (15)	13 (18)	0.4 in. (9.73 mm)
G1/4A	26 (35)	26 (35)	22 (30)	26 (35)	0.5 in. (13.16 mm)
G3/8A	33 (45)	52 (70)	33 (45)	37 (50)	0.7 in. (16.66 mm)
G1/2A	48 (65)	66 (90)	41 (55)	48 (65)	0.8 in. (20.96 mm)
G3/4A	66 (90)	133 (180)	74 (100)	103 (140)	1.0 in. (26.44 mm)
G1A	111 (150)	229 (310)	118 (160)	140 (190)	1.3 in. (33.25 mm)
G1 1/4A	177 (240)	332 (450)	155 (210)	266 (360)	1.7 in. (41.91 mm)
G1 1/2A	214 (290)	398 (540)	192 (260)	398 (540)	1.9 in. (47.80 mm)

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18. Install right side panel (A, Fig. 215) and secure using 6 screws (B).

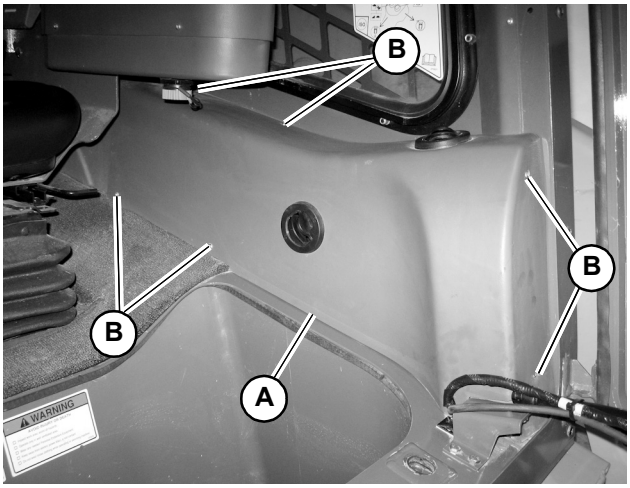


Fig. 215 – Install Right Side Panel

19. Connect windshield washer hose (Y, Fig. 216) to fitting (C).

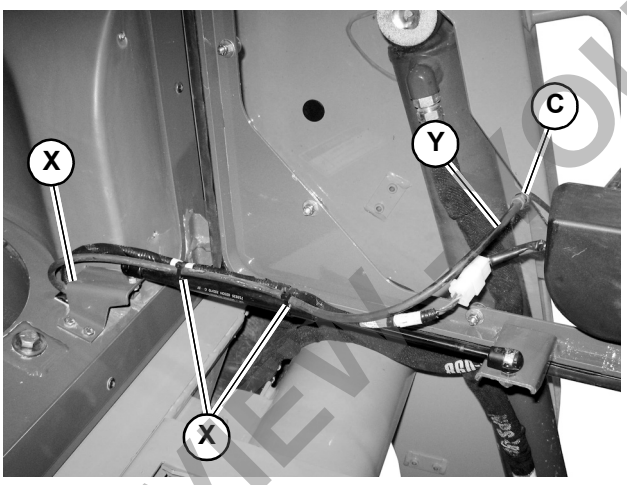


Fig. 216 – Connect Windshield Washer Hose

20. Secure the hose as shown using cable ties (X).

21. Install 2 screws (D, Fig. 217) and flat washers (E). Tighten securely.

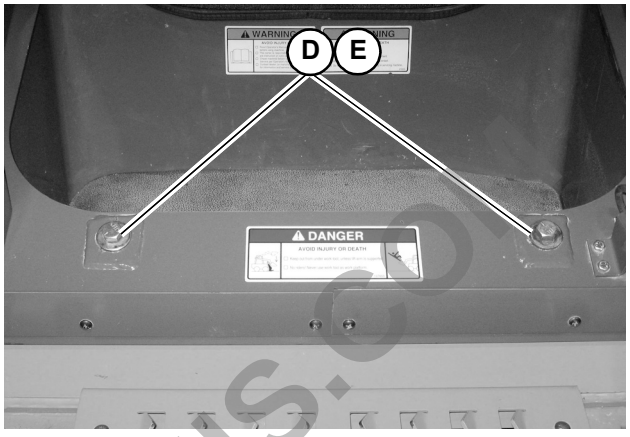


Fig. 217 – Install ROPS/FOPS Retaining Screws

22. Access the engine compartment according to "Engine Access" on page 123.

23. Connect the heater return hose (U, Fig. 218) to the coolant pump. Tighten clamp securely.

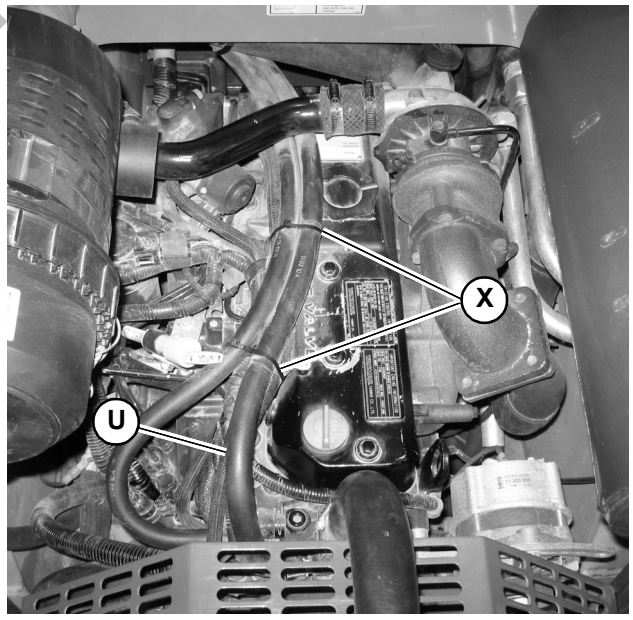


Fig. 218 – Connect Heater Return Hose

24. Secure the heater hoses using cable ties (X) as shown.

25. Fill the cooling system according to "Draining/Refilling Cooling System" on page 129. Refer to "Fluids/Lubricants Types and Capacities" on page 35 for proper coolant specifications

26. Close the engine compartment covers.

27. Reconnect the negative cable to the battery.

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