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Group 0001 - Safety

Recognize Safety Information



Safety alert Symbols



Safety Alert Symbols

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert for the potential of personal injury.

Follow the precautions and safe operating practices highlighted by this symbol.

A signal word — DANGER, WARNING, or CAUTION — is used with the safety alert symbol. DANGER identifies the most serious hazards.

On your machine, DANGER signs are red in color, WARNING signs are orange, and CAUTION signs are yellow. DANGER and WARNING signs are located near specific hazards. General precautions are on CAUTION labels.

Follow Safety Instructions



Safety Messages

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement. Be sure that new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

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Foreword

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

CAUTION:

This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

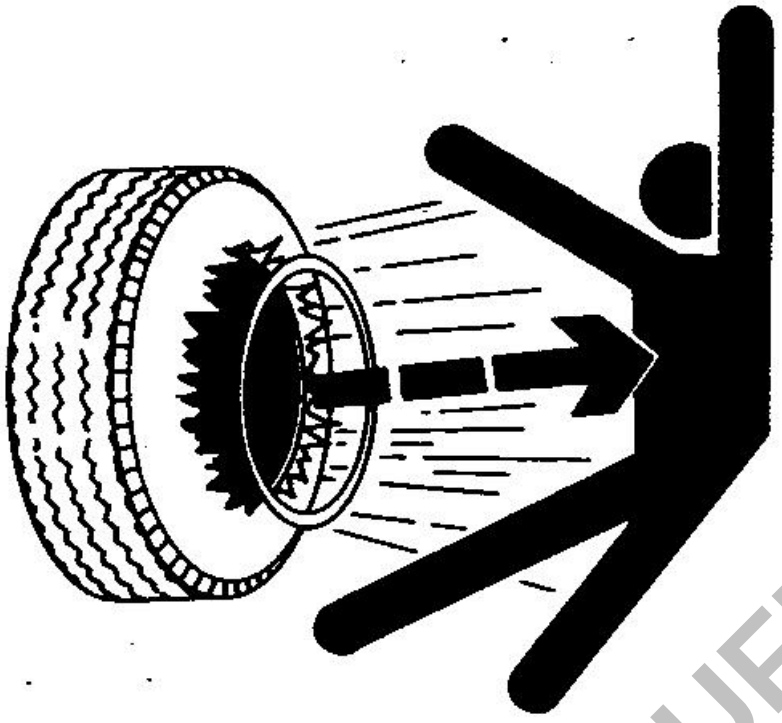
Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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Service Tires Safely



Explosive Tire and Rim Parts

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

Handle Cab Door Safely



LEGEND:

1	Cab Door

Cab Door

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Section 02 - AXLES AND SUSPENSION SYSTEMS

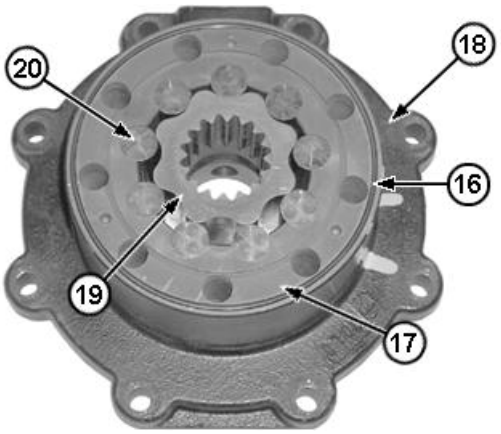
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Group 0201 - Drive Axle Housing and Support 1
Axle Housing Remove and Install 1
Axle Housing Disassemble and Assemble 4
Group 0250 - Axle Shaft, Bearings, and Reduction Gears 7
Chain Case Access Plate Remove and Install 7
Drive Chain and Sprocket Remove and Install 8

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[14] -



LEGEND:

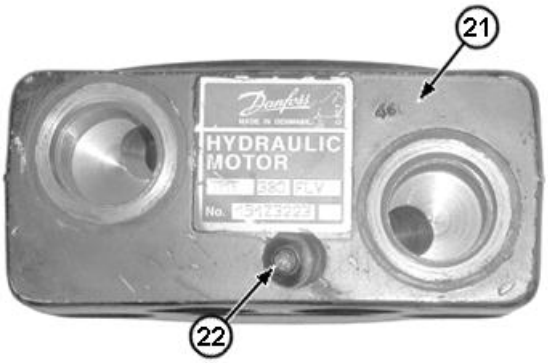
16	O-Ring (3 used)
17	Rim
18	Mounting Adapter
19	Rotor
20	Roller (9 used)

Removing O-Rings From Rim

Remove and discard O-rings (16) from both sides of rim (17).

[15] - Carefully lift rim from mounting adapter (18) so rotor (19) and rollers (20) do not slip out.

[16] -



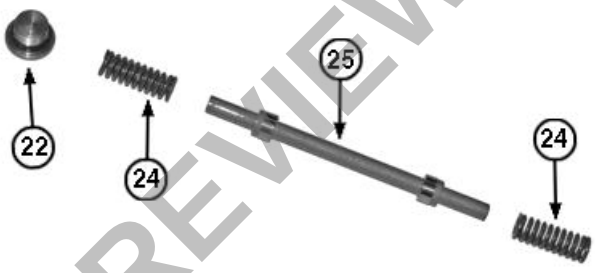
LEGEND:

21	End Cap
22	Plug

End Cap Shuttle Valve Plug

Remove plug (22) on end cap (21) for shuttle valve.

[17] -



LEGEND:

22	Plug
24	Spring (2 used)
25	Spool

Shuttle Valve Spool

Remove springs (24) and spool (25) from end cap.

[18] - Remove and discard O-ring from plug (22).

[19] -

IMPORTANT:

Avoid damage to hydrostatic system. Clean all parts in a suitable solvent and dry with compressed air. Do not wipe parts with paper towels or rags. Lint in hydraulic system causes damage.

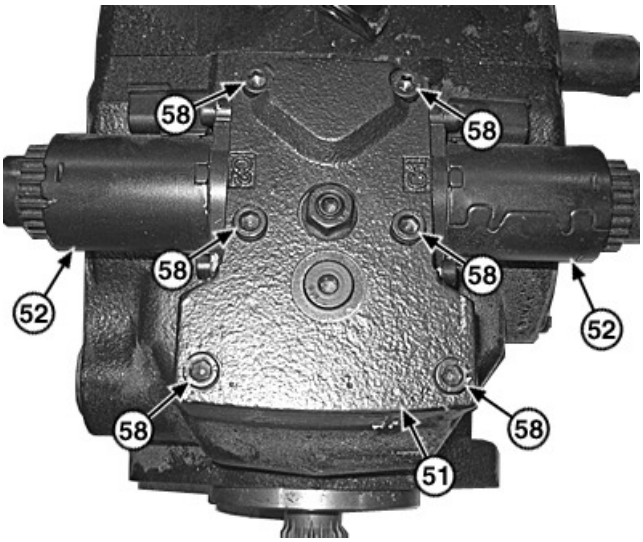
Clean and inspect all parts for wear or scoring. Repair or replace parts as necessary.

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55	Plug
56	O-Ring
57	Cap Screw (6 used)
58	Cap Screw (6 used)
59	Screen
60	Gasket

[1] -



LEGEND:

51	Electric Displacement Control (2 used)
52	Solenoid (2 used)
58	Cap Screw (6 used)

Electric Displacement Control

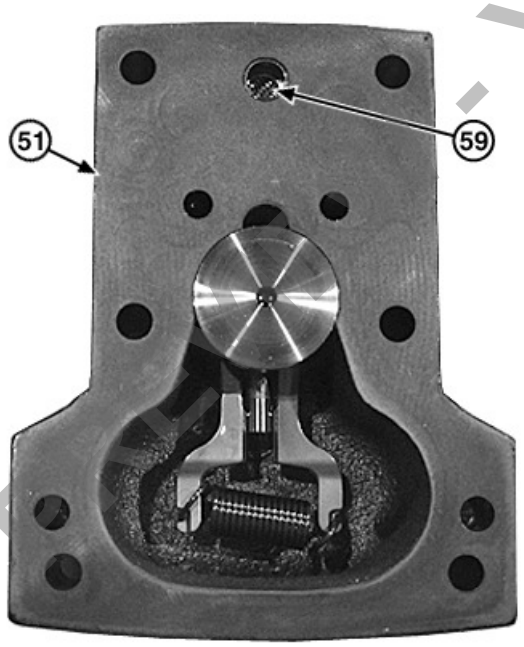
Remove cap screws (58) and remove electric displacement control (51).

[2] - Remove and discard gasket (60).

[3] - Remove solenoid coils (54).

[4] - Remove cap screws (57) and remove solenoids (52). Discard O-rings (53).

[5] -



LEGEND:

51	Electric Displacement Control (2 used)
59	Screen

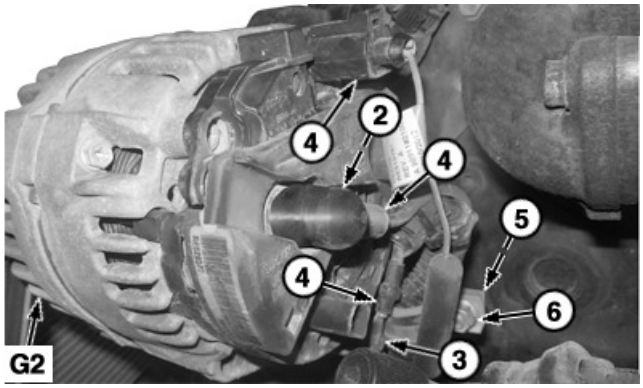
Electric Displacement Control Screen

Remove screen (59).

[6] -

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LEGEND:

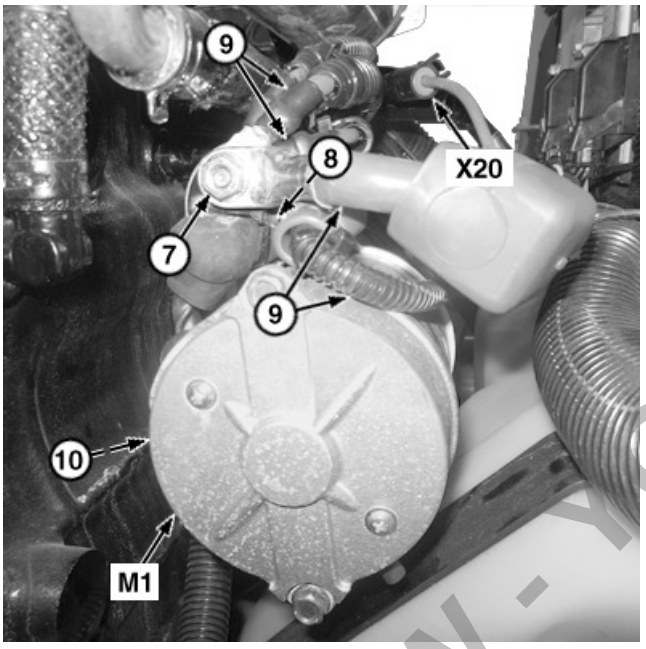
2	Nut
3	Cap Screw
4	Alternator Connector (3 used)
5	Cap Screw
6	Nut
G2	Alternator

Alternator

Remove nut (2) and loosen cap screw (3). Install identification tags and disconnect alternator connectors (4).

[10] - Remove cap screw (5) and nut (6).

[11] -



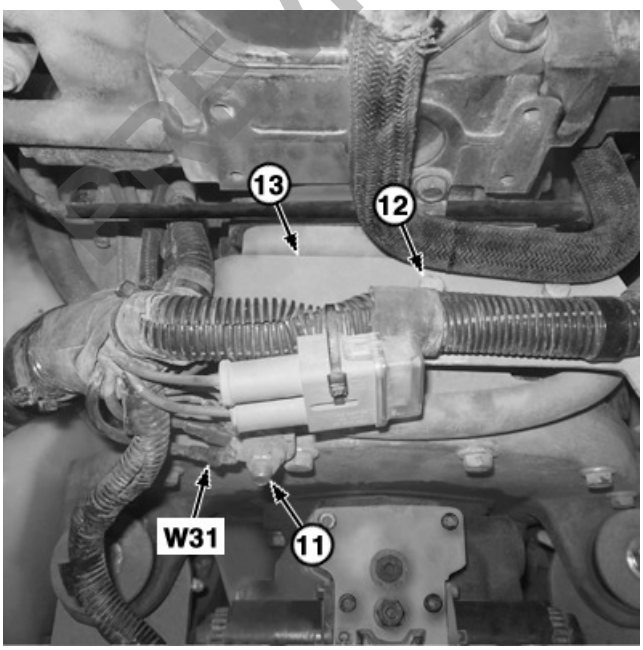
LEGEND:

7	Nut
8	Cap Screw
9	Starter Motor Connector (5 used)
10	Cap Screw
M1	Starter Motor
X20	Main Harness-to-Battery 1-Pin Connector

Starter Motor

Remove nut (7) and loosen cap screws (8 and 10). Install identification tags and disconnect electrical connectors (9 and X20).

[12] -

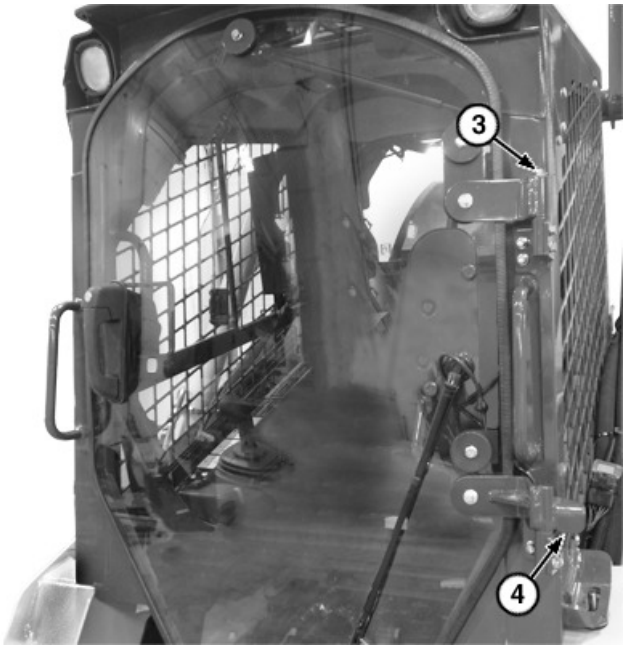


LEGEND:

11	Cap Screw
12	Cap Screw (2 used)
13	Bracket
W31	Starter Motor Ground

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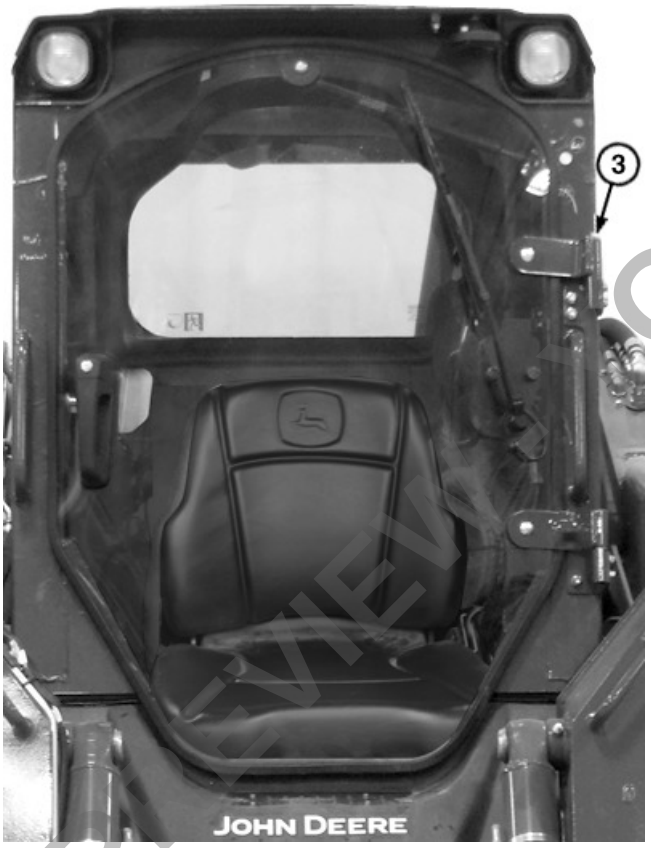
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LEGEND:

3	Cotter Pin
4	Stop

Cotter Pin (S.N. —269401) (view shown from outside of cab)



Cotter Pin (S.N. 269402—) (view shown from outside of cab)

On outside of machine, remove cotter pin (3) and washer from top hinge pin. Store appropriately.

[8] - For machines (S.N. —269401), open door until the stop (4) touches the door frame.

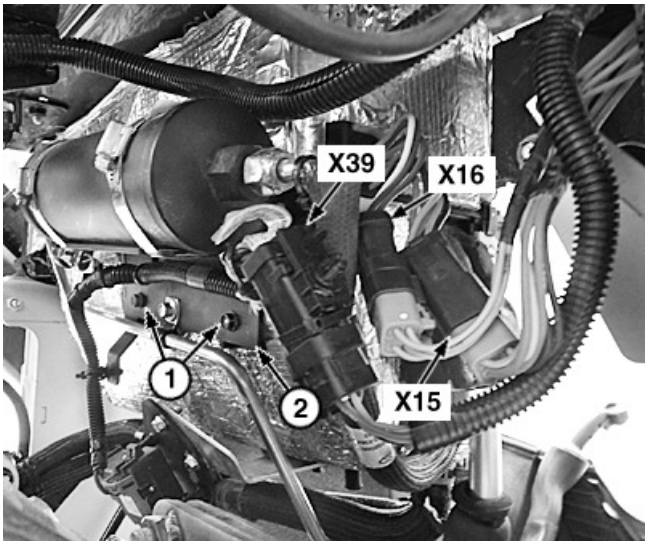
[9] -

CAUTION:

Prevent possible crushing injury from heavy component. Use appropriate lifting device.

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LEGEND:

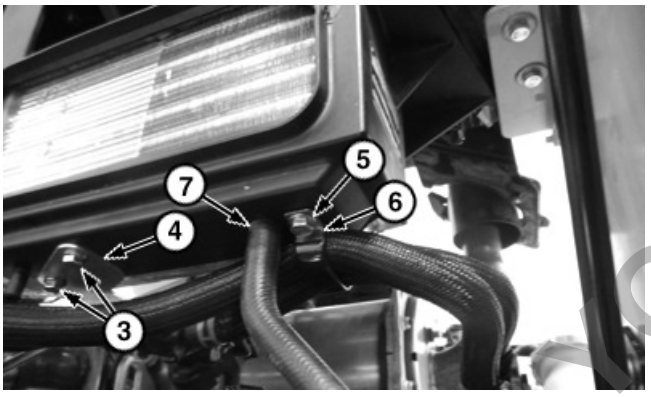
1	Cap Screw (2 used)
2	Receiver-Dryer Bracket
X15	Main Harness-to-Air Conditioner and Heater Harness 6-Pin Connector
X16	Main Harness-to-Air Conditioner and Heater Harness 4-Pin Connector
X39	High/Low Pressure Switch and Heater Valve Motor Harness Connector

Receiver-Dryer Bracket and Electrical Connectors

Install identification tags and disconnect electrical connectors (X15, X16 and X39).

[8] - Remove cap screws (1) and receiver-dryer bracket (2).

[9] -



LEGEND:

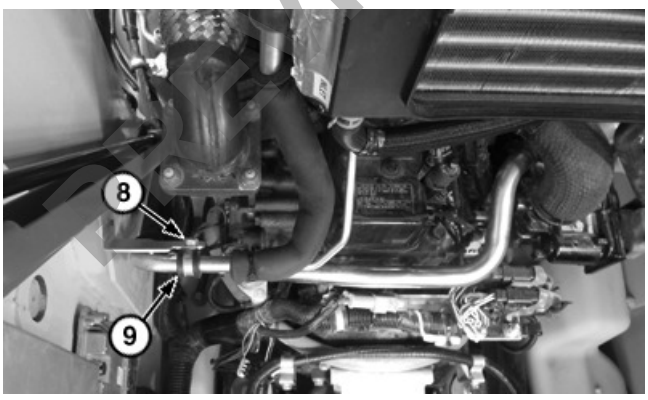
3	Cap Screw (2 used)
4	Heater Valve Motor Bracket
5	Cap Screw
6	Heater Hot Water Line Bracket
7	Drain Hose

Heater Valve Motor Bracket and Heater Hot Water Line Bracket

Remove cap screws (3) and heater valve motor bracket (4).

[10] - Remove cap screw (5) and heater hot water line bracket (6). Remove drain hose (7).

[11] -



LEGEND:

8	Cap Screw
9	Pressure Line Bracket

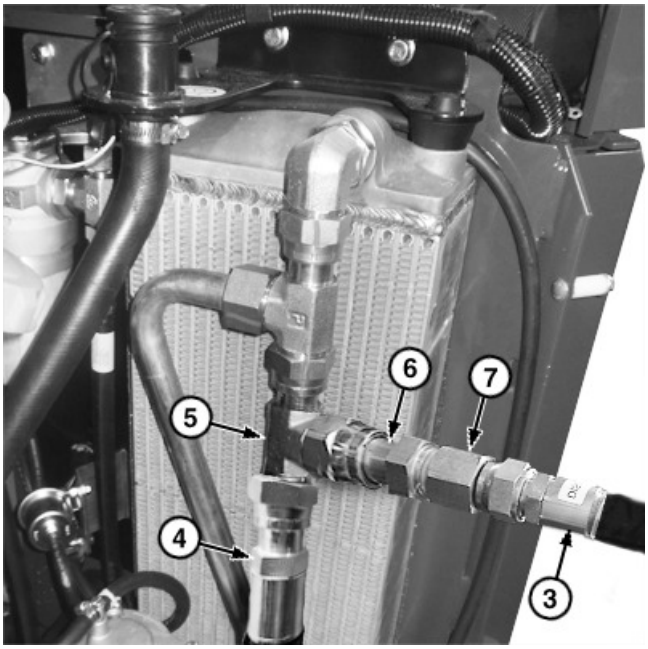
Pressure Line Bracket

Remove cap screw (8) and pressure line bracket (9).

[12] -

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LEGEND:

3 Super Caddy 3 Discharge Hose
4 Cooler Return Line
5 Tee -16 M ORFS x -16 F ORFS x -16 M ORFS
6 Adapter -16 M ORFS x -16 F ORFS
7 Adapter 1 in. F NPT x -16 M ORFS

Super Caddy 3 Discharge Line Fittings

Use fittings (5, 6, and 7) to connect Super Caddy 3 discharge hose (3) to cooler return line (4).

Heavy Duty Cooler Fittings

Tee -16 M ORFS x -16 F ORFS x -16 M ORFS

Use to connect Super Caddy discharge line to cooler return line.

Adapter -16 M ORFS x -16 F ORFS

Use to connect Super Caddy discharge line to cooler return line.

Adapter 1 in. F NPT x -16 M ORFS

Use to connect Super Caddy discharge line to cooler return line.

Standard Duty Cooler Fittings

Tee -12 M ORFS x -12 F ORFS x -12 M ORFS

Use to connect Super Caddy discharge line to cooler return line.

Adapter -12 M ORFS x -12 F ORFS

Use to connect Super Caddy discharge line to cooler return line.

Adapter 1 in. F NPT x -12 M ORFS

Use to connect Super Caddy discharge line to cooler return line.

[9] - Use Super Caddy 3 to remove oil contaminants. Refer to operator's manual included with Super Caddy 3 or see Super Caddy 3 in Service ADVISOR ™ for operating procedure.

[10] -

CAUTION:

Prevent entanglement and possible electrocution from Super Caddy 3 power cord. Do not operate machine while Super Caddy 3 is connected to machine.

Remove suction hose and discharge hose from machine and install strainer and cap on reservoir.

[11] -

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[6] - Remove cap screws (5) from hydraulic pump assembly.

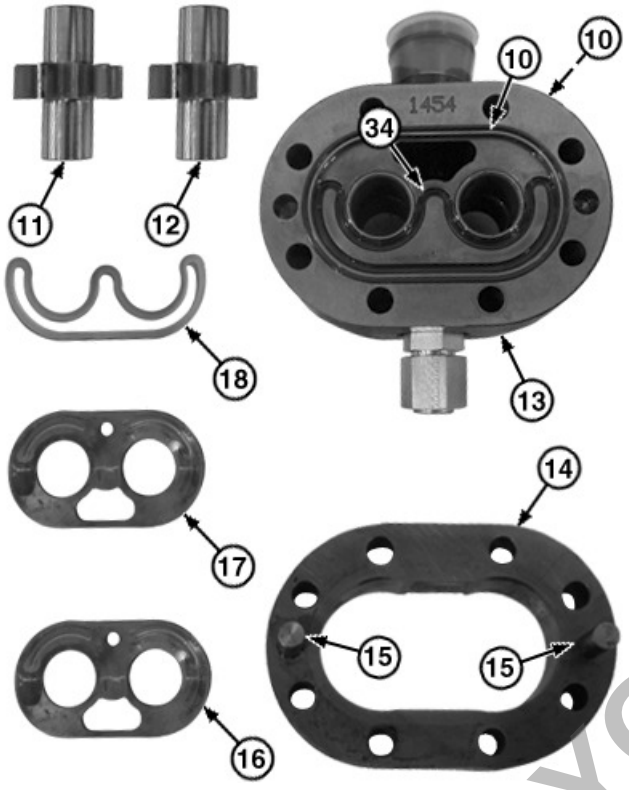
[7] - Remove end cap (6).

[8] - Remove high flow pump housing spacer (7) and guide pins (8).

[9] - Remove wear plate (9) and O-ring (10).

[10] - Discard O-ring.

[11] -



LEGEND:

10	O-Ring (2 used)
11	Drive Gear
12	Idler Gear
13	High Flow Section
14	Charge Pump Housing Spacer
15	Guide Pin (2 used)
16	Wear Plate
17	Wear Plate
18	Seal
34	Seal Ring

High Flow Section

Remove drive gear (11) and idler gear (12).

[12] - Remove high flow section (13), charge pump housing spacer (14), and guide pins (15).

[13] - Remove wear plates (16 and 17), seal (18), seal ring (34), and O-rings.

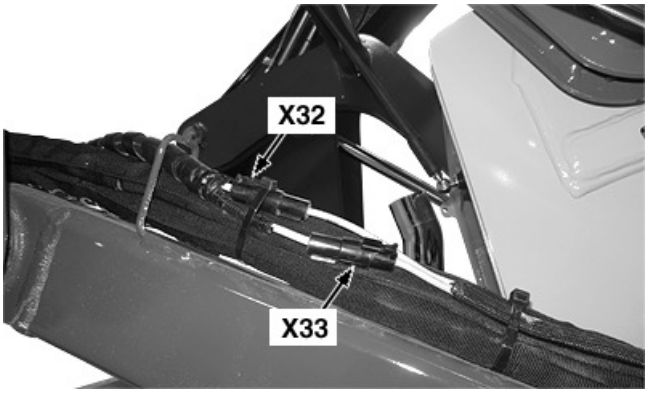
[14] - Discard O-rings.

[15] -

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[22] -

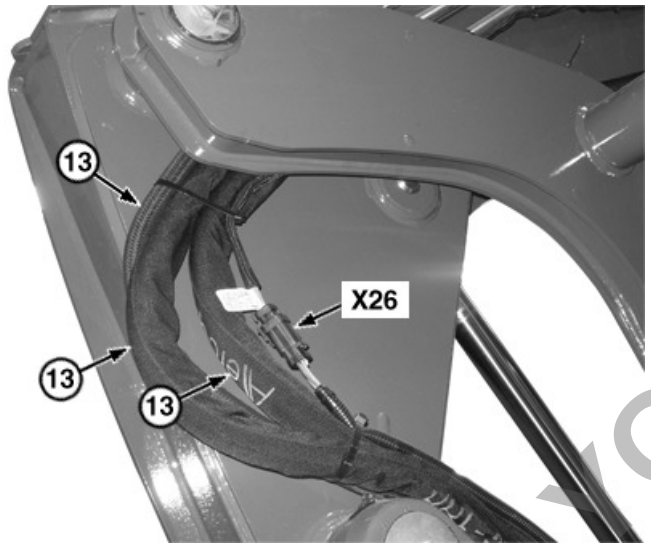


LEGEND:
X32 Quik-Tatch™ 1-Pin Connector 1 (if equipped)
X33 Quik-Tatch™ 1-Pin Connector 2 (if equipped)

Quik-Tatch™ 1-Pin Connectors

Remove and discard tie bands. Install identification tags and disconnect electrical connectors (X32 and X33) (if equipped) from rear of boom.

[23] -



LEGEND:
13 Hydraulic Line (5 used)
X26 Attachment Control Harness-to-Attachment Control Boom Harness 8-Pin Connector

Rear of Boom (left side of machine shown)



Rear of Boom (right side of machine)

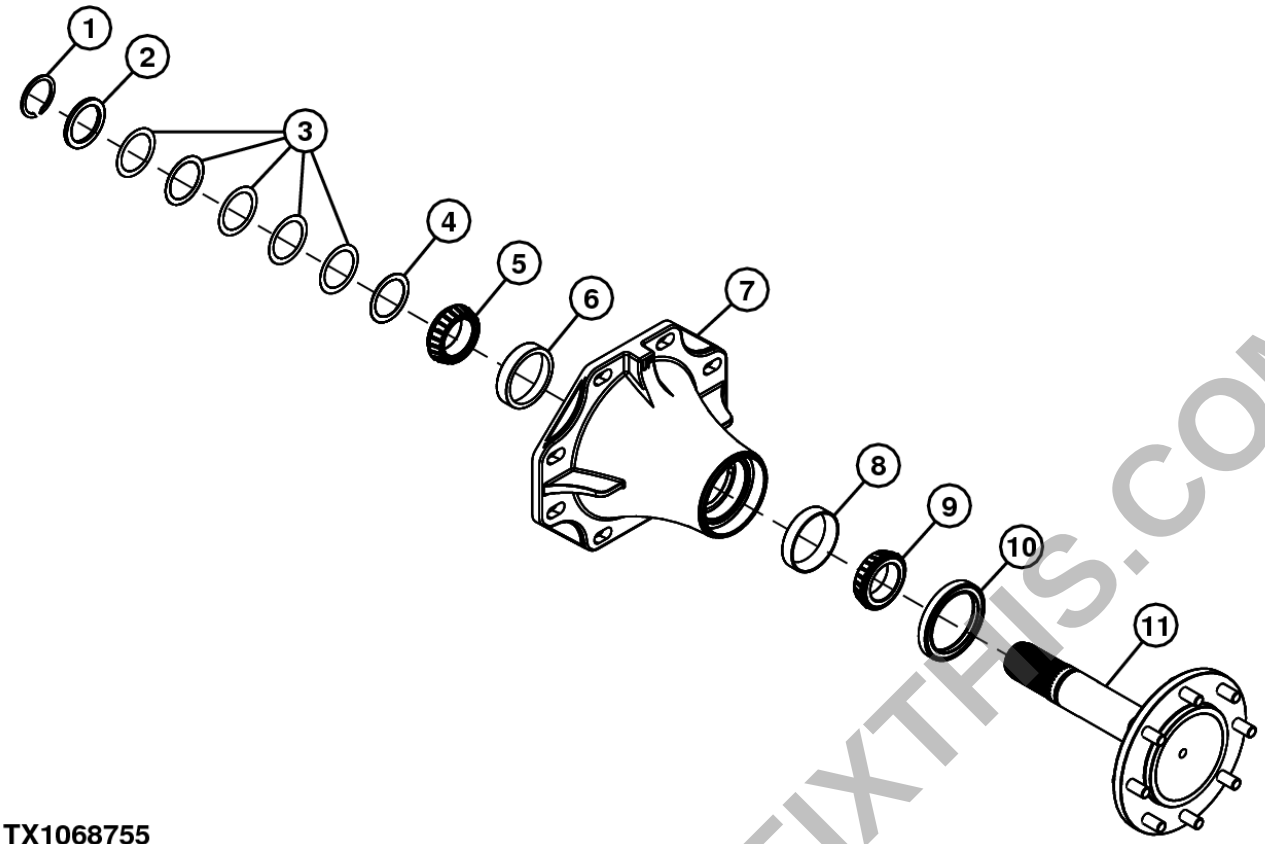
Remove and discard tie bands. Install identification tags and disconnect electrical connector (X26) from rear of boom on left side.

[24] -

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Axle Housing Disassemble and Assemble



TX1068755

Axle Housing Assembly

LEGEND:

1	Snap Ring
2	Washer
3	Shim (as required)
4	Washer
5	Inner Bearing
6	Inner Bearing Cup
7	Axle Housing
8	Outer Bearing Cup
9	Outer Bearing
10	Seal
11	Axle Shaft

[1] -

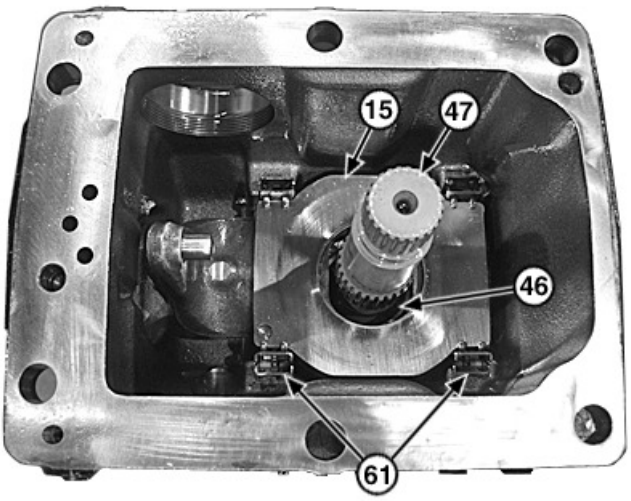


LEGEND:

1	Snap Ring

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LEGEND:

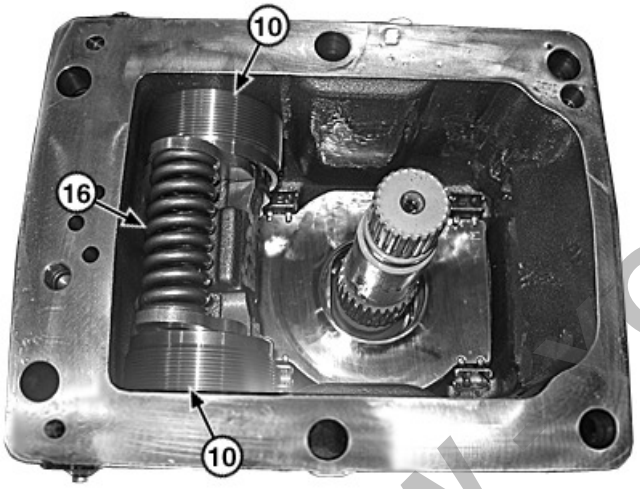
15	Swash Plate
46	Bearing
47	Shaft
61	Swash Plate Bearing (2 used)

Servo Plate Installation

Install shaft (47) with bearing (46).

[16] - Install swash plate (15) with swash plate bearings (61).

[17] -



LEGEND:

10	Servo Cylinder (2 used)
16	Servo Piston Assembly

Servo Piston Installation

Install servo piston assembly (16) with new O-rings (17 and 18).

[18] -

→NOTE:

Install servo cylinders so they are snug with servo piston assembly and at approximately the same depth in hydrostatic pump housing.

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Section 17 - FRAME OR SUPPORTING STRUCTURE

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Group 1740 - Frame Installation 1
Welding On Machine 1
Welding Repair of Major Structure 2
Counterweight Remove and Install 4
Raising and Blocking Machine 5

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[15] - Install new receiver-dryer. See Receiver-Dryer Remove and Install . (Group 1830.)

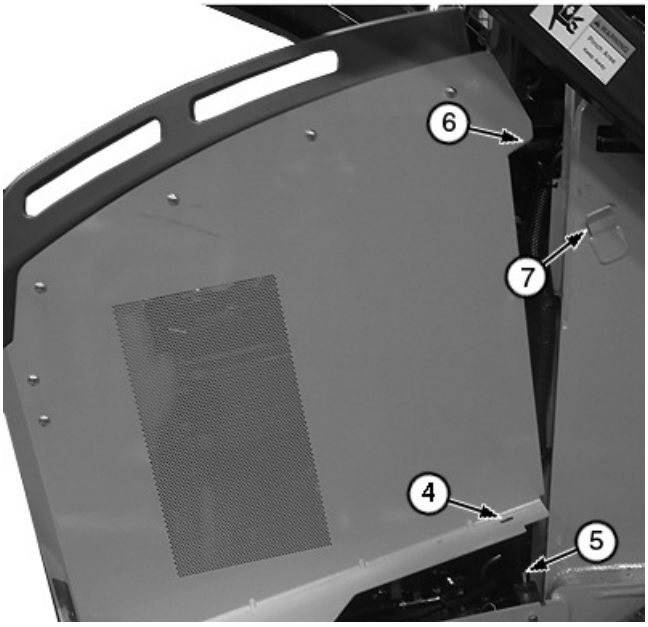
[16] - Evacuate and charge air conditioning system. See Evacuate R134a System and see Charge R134a System . (Group 1830.)

[17] - Install side panels. See Side Panel Remove and Install . (Group 1910.)

[18] - Release boom lock and lower boom to ground. See Boom Lock . (Group 3140.)

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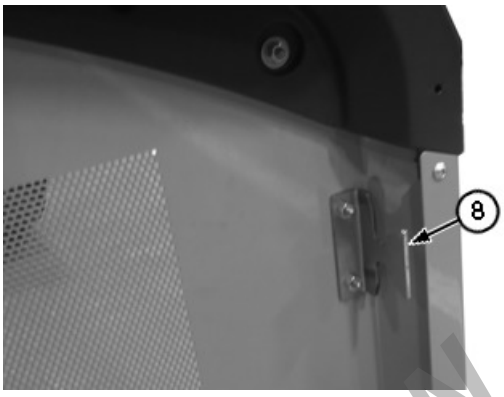


Front Edge of Side Panel

Align rear slot (2) and rear rod (3).

[5] - Tilt engine side panel forward. Align front slot (4) and front rod (5) while guiding front tab (6) into front outer bracket (7).

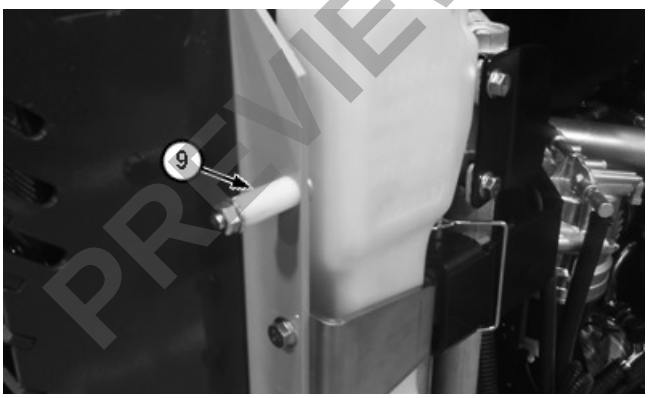
[6] -



LEGEND:

8	Metal Tab
9	Standoff

Inside of Engine Side Panel



Standoff

Ensure metal tab (8) on inside of engine side panel aligns with standoff (9).

[7] - Close engine cover.

- For wheeled machines, see Opening and Closing Engine Cover . (Operator's Manual.)
- For tracked machines, see Opening and Closing Engine Cover . (Operator's Manual.)

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