40XT SKID STEER
Service Manual
Bur 6-45070
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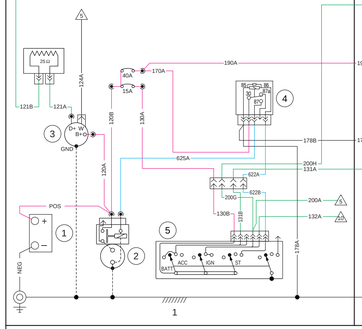
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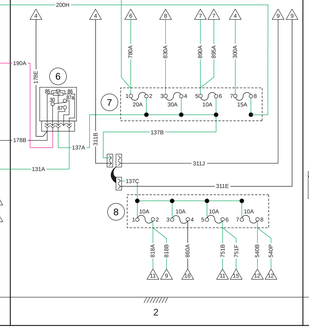
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STARTING SYSTEM



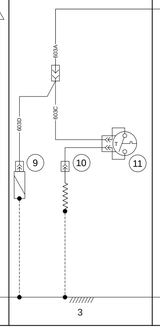
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POWER DISTRIBUTION



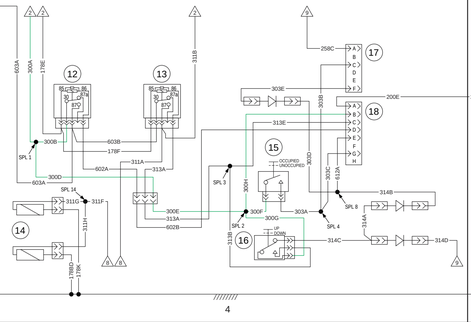
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FUEL SUPPLY SYSTEM



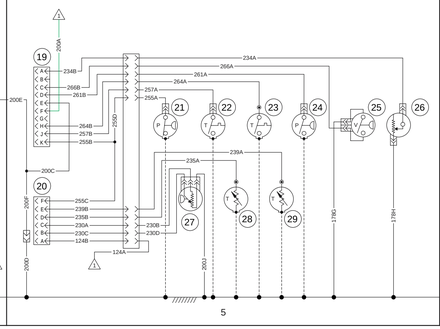
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SAFETY INTERLOCK SYSTEM



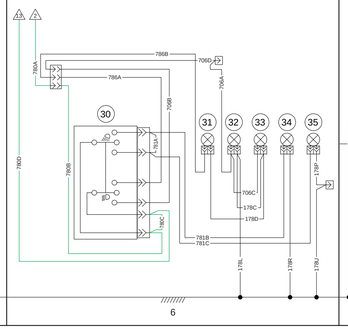
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INSTRUMENT CLUSTER



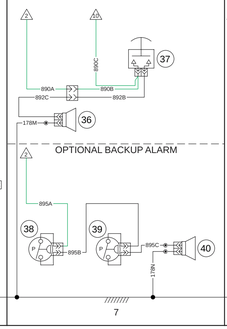
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STANDARD LAMPS



6

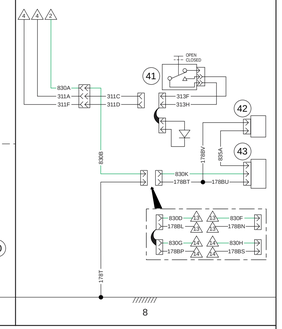
OPTIONAL HORN



OPTIONAL BACKUP ALARM

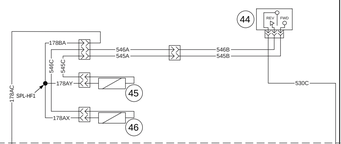
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OPTIONAL FRONT DOOR

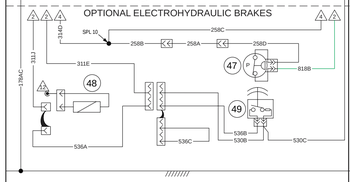


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OPTIONAL HIGH FLOW

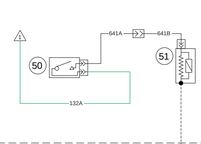


OPTIONAL ELECTROHYDRAULIC BRAKES

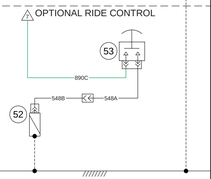


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OPTIONAL COLD START

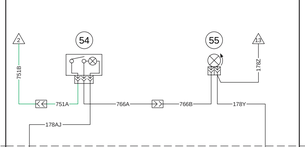


OPTIONAL RIDE CONTROL

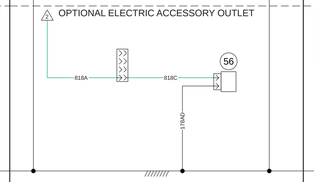


10

OPTIONAL ROTATING BEACON

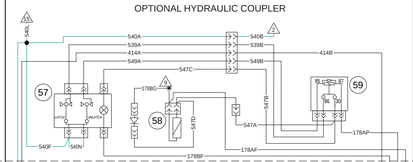


OPTIONAL ELECTRIC ACCESSORY OUTLET

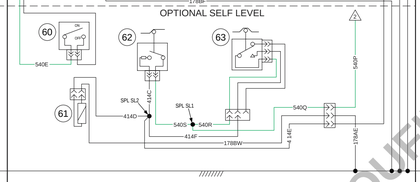


11

OPTIONAL HYDRAULIC COUPLER

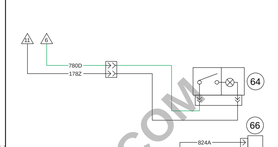


OPTIONAL SELF LEVEL



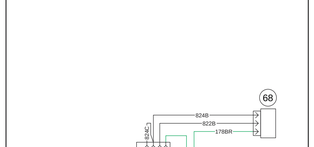
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OPTIONAL DELUXE HEATER



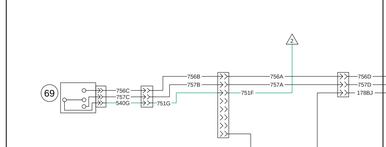
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OPTIONAL FOOT HEATER



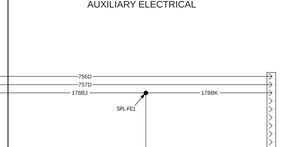
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OPTIONAL AUXILIARY ELECTRIC



15

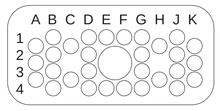
OPTIONAL LOADER ARM
AUXILIARY ELECTRICAL



OPTIONAL MISCELLANEOUS POWER

16

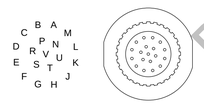
CHASSIS HARNESS TO CAB HARNESS



	A	B	C	D	E	F	G	H	J	K	
1	130A	200H	311F	X	706D	234A	257A	641B	266A	200D	1
2	780A	131A	~~	300D	~~	~~	261A	~~	602A	830A	2
3	~~	622A	~~	X	~~	~~	X	~~	239A	~~	3
4	786B	124A	313A	X	255A	235A	264A	311A	X	178S	4

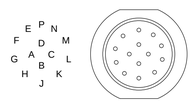
CHASSIS OPTIONS TO CAB OPTIONS

A	751B	L	759A
B	540B	M	544B
C	539B	N	754C
D	418B	P	547B
E	549B	R	818A
F	543B	S	X
G	542B	T	X
H	541B	U	X
J	258D	V	X
K	758B		

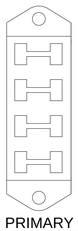


FRONT AUXILIARY ELECTRIC

A	X	H	544C
B	178BK	J	X
C	757D	K	X
D	756D	L	X
E	541C	M	X
F	542C	N	X
G	543C	P	X



FUSES



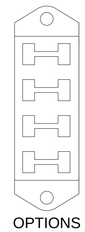
20 AMPERES (LIGHTS)

30 AMPERES (WIPER/HEATER)

10 AMPERES (BACKUP ALARM/HORN)

15 AMPERES (INTERLOCK SYSTEM)

PRIMARY FUSE BLOCK



10 AMPERES (ACCESSORIES/BRAKE LIGHT)

10 AMPERES (MISCELLANEOUS POWER)

10 AMPERES (BEACON/FRONT ELECTRICS)

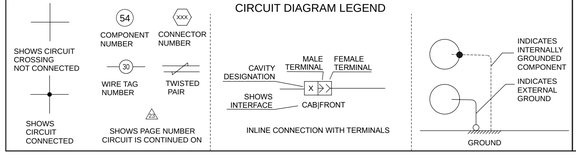
10 AMPERES (HYDRAULIC COUPLER/SELF LEVEL)

OPTIONS FUSE BLOCK

COMPONENTS

1. BATTERY
2. STARTER MOTOR AND SOLENOID
3. ALTERNATOR
4. STARTING RELAY
5. IGNITION SWITCH
6. MAIN POWER RELAY
7. PRIMARY FUSE BLOCK
8. OPTIONS FUSE BLOCK
9. FUEL HOLD IN SOLENOID
10. FUEL TIMING HEATER
11. FUEL TIMING TEMPERATURE SWITCH
12. ENGINE SHUT DOWN RELAY
13. LOADER VALVE SOLENOID RELAY
14. LOADER VALVE SOLENOIDS
15. SEAT SWITCH
16. SEAT BAR SWITCH
17. LH INSTRUMENT CLUSTER (6-PIN CONNECTOR)
18. RH INSTRUMENT CLUSTER (8-PIN CONNECTOR)
19. LH INSTRUMENT CLUSTER (10-PIN CONNECTOR)
20. RH INSTRUMENT CLUSTER (6-PIN CONNECTOR)
21. ENGINE OIL PRESSURE SWITCH
22. ENGINE COOLANT TEMPERATURE SWITCH
23. HYDRAULIC OIL TEMPERATURE SWITCH
24. HYDRAULIC FILTER PRESSURE SWITCH
25. AIR FILTER RESTRICTION SWITCH
26. FUEL SENDER
27. ENGINE OIL PRESSURE SENSOR (OPTIONAL)
28. ENGINE COOLANT TEMPERATURE SENDER (OPTIONAL)
29. HYDRAULIC OIL TEMPERATURE SENDER (OPTIONAL)
30. WORK/ROAD LIGHT SWITCH
31. REAR HALOGEN WORK LAMP
32. LH REAR POSITIONAL LAMP
33. RH REAR POSITIONAL LAMP
34. LEFT FRONT HALOGEN WORK LAMP
35. RIGHT FRONT HALOGEN WORK LAMP
36. HORN
37. HORN SWITCH
38. BACKUP ALARM SWITCH
39. BACKUP ALARM SWITCH
40. BACKUP ALARM
41. CAB DOOR SWITCH
42. WASHER PUMP
43. WIPER MOTOR
44. HIGH FLOW SWITCH
45. FORWARD HIGH FLOW SOLENOID
46. REVERSE HIGH FLOW SOLENOID
47. BRAKE PRESSURE SWITCH
48. BRAKE RELEASE SOLENOID
49. BRAKE SWITCH
50. COLD START SWITCH
51. THERMOSTART COIL
52. RIDE CONTROL SOLENOID
53. RIDE CONTROL SWITCH
54. ROTATING BEACON SWITCH
55. ROTATING BEACON
56. ACCESSORY OUTLET
57. HYDRAULIC COUPLER SWITCH
58. HYDRAULIC COUPLER RELEASE SOLENOID
59. HYDRAULIC COUPLER RELEASE TIMER
60. SELF LEVEL OVERRIDE SWITCH
61. SELF LEVEL OVERRIDE SOLENOID
62. LOADER VALVE FLOAT SPOOL SWITCH
63. LOADER VALVE TIP SPOOL SWITCH
64. DOME LIGHT WITH SWITCH
65. DELUXE HEATER BLOWER SWITCH
66. DELUXE HEATER
67. FOOT HEATER BLOWER SWITCH
68. FOOT HEATER
69. FRONT ELECTRIC CONTROL SWITCH
70. AUXILIARY ELECTRIC SWITCH #1
71. AUXILIARY ELECTRIC SWITCH #2

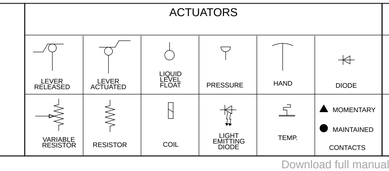
CIRCUIT DIAGRAM LEGEND



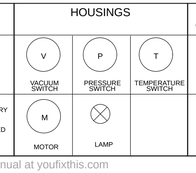
WIRE IDENTIFICATION

ABBREV	WIRE COLOR
B	BLACK
BR	BROWN
DB	DARK BLUE
DG	DARK GREEN
G	GRAY
LB	LIGHT BLUE
LG	LIGHT GREEN
O	ORANGE
P	PINK
R	RED
T	TAN
V	VIOLET (PURPLE)
W	WHITE
Y	YELLOW

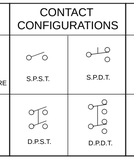
ACTUATORS



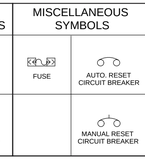
HOUSINGS



CONTACT CONFIGURATIONS



MISCELLANEOUS SYMBOLS



NOTES

1. DIAGRAM SHOWN WITH VEHICLE PARKED, POWER OFF AND CONTROLS IN OFF OR NEUTRAL POSITION.
2. SHEET NUMBERS REFER TO THE NUMBER AT THE BOTTOM CENTER OF EACH BLOCK.

LEGEND

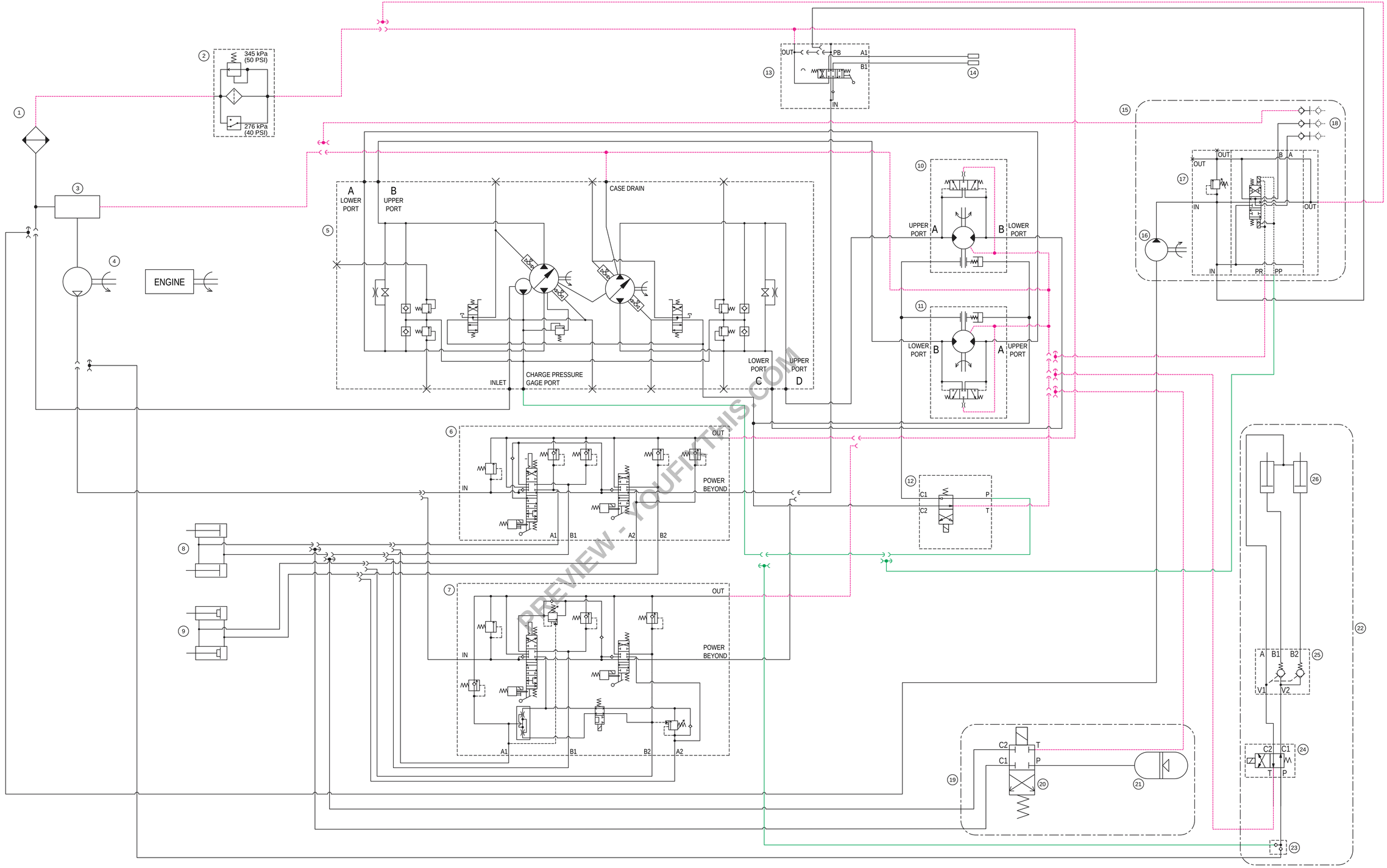
- INDICATES CONSTANT POWER
- INDICATES POWER WHEN KEY SWITCH IS IN ON POSITION
- INDICATES MOMENTARY POWER WHEN KEY SWITCH IS IN START POSITION

ELECTRICAL SCHEMATIC
40XT SKID STEER LOADER

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COMPONENTS

1. OIL COOLER
2. RETURN FILTER
3. HYDRAULIC RESERVOIR
4. GEAR PUMP
5. TANDEM HYDROSTATIC PUMP
6. LOADER CONTROL VALVE
7. LOADER CONTROL VALVE (with Optional Dual Self Level)
8. LIFT CYLINDERS (2)
9. BUCKET CYLINDERS (2)
10. LH DRIVE MOTOR
11. RH DRIVE MOTOR
12. BRAKE/SERVO OVERRIDE SOLENOID VALVE
13. AUXILIARY HYDRAULICS VALVE
14. AUXILIARY HYDRAULICS QUICK DISCONNECTS
15. HIGH FLOW OPTION
16. GEAR PUMP
17. HIGH FLOW VALVE
18. HIGH FLOW AUXILIARY HYDRAULICS QUICK DISCONNECTS
19. RIDE CONTROL OPTION
20. RIDE CONTROL VALVE
21. RIDE CONTROL ACCUMULATOR
22. HYDRAULIC COUPLER OPTION
23. CHECK VALVE
24. 4-WAY SOLENOID VALVE
25. LOCKOUT VALVE
26. HYDRAULIC COUPLER CYLINDERS (2)

NOTES

HYDRAULIC SYMBOLS

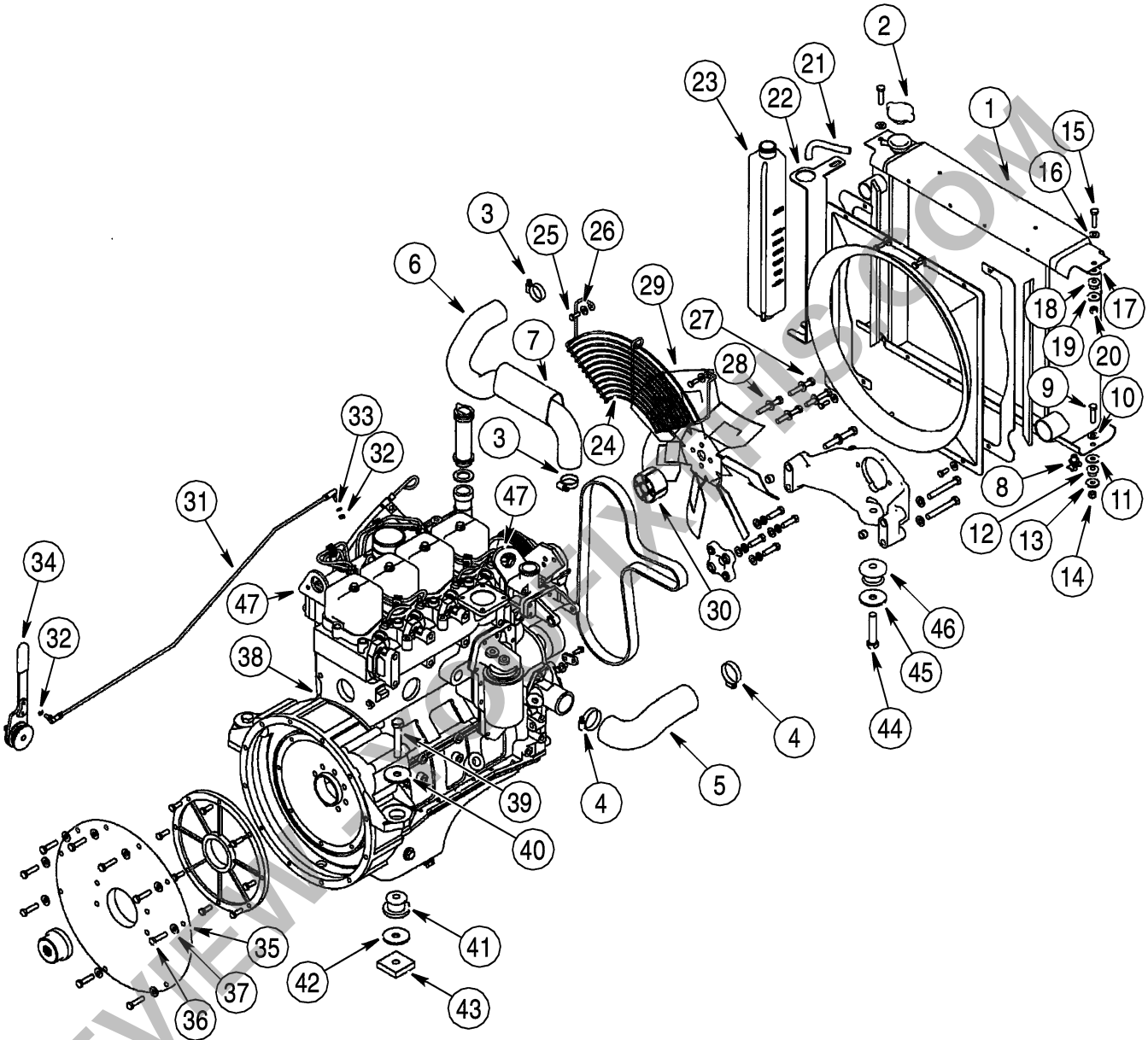
PRESSURE
COMPONENT
RETURN
LOAD SENSE
PILOT PRESSURE
CROSSING LINES
CHECK VALVE
FILTER OR SCREEN
LINE CONNECTION
RESTRICTOR
OIL COOLER

HYDRAULIC SCHEMATIC
40XT SKID STEER LOADER

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BS01K211

1. RADIATOR
2. RADIATOR CAP
3. HOSE CLAMP
4. HOSE CLAMP
5. LOWER RADIATOR HOSE
6. UPPER RADIATOR HOSE
7. HOSE HEAT GUARD
8. DRAIN VALVE
9. BOLT
10. WASHER
11. WASHER
12. MOUNT
13. WASHER
14. NUT
15. BOLT
16. WASHER
17. WASHER
18. MOUNT
19. WASHER
20. NUT
21. OVER FLOW HOSE
22. BRACKET
23. OVER FLOW BOTTLE
24. FAN GUARD
25. BOLT
26. WASHER
27. BOLT
28. WASHER
29. FAN
30. SPACER
31. THROTTLE ROD
32. NUT
33. WASHER
34. THROTTLE HANDLE
35. PUMP MOUNT PLATE
36. BOLT
37. WASHER
38. ENGINE
39. BOLT
40. WASHER
41. MOUNT
42. WASHER
43. NUT
44. BOLT
45. WASHER
46. MOUNT
47. LIFTING EYE

ENGINE MOUNTING

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TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs



Size	Newton metres	Pound-Inches
1/4 inch	10 to 12	91 to 103
5/16 inch	21 to 24	188 to 212
3/8 inch	38 to 43	336 to 378
		Pound-Feet
7/16 inch	61 to 69	45 to 51
1/2 inch	94 to 104	68 to 76
9/16 inch	132 to 149	98 to 110
5/8 inch	183 to 210	138 to 155
3/4 inch	325 to 370	242 to 270
7/8 inch	530 to 595	390 to 435
1.0 inch	790 to 890	585 to 655
1-1/8 inch	980 to 1100	725 to 805
1-1/4 inch	1385 to 1555	1020 to 1145
1-3/8 inch	1810 to 2030	1335 to 1495
1-1/2 inch	2400 to 2700	1770 to 1990

Grade 8 Bolts, Nuts, and Studs



Size	Newton metres	Pound-Inches
1/4 inch	15 to 16	130 to 145
5/16 inch	30 to 34	268 to 301
3/8 inch	54 to 60	474 to 534
		Pound-Feet
7/16 inch	86 to 97	63 to 71
1/2 inch	132 to 149	96 to 110
9/16 inch	191 to 213	140 to 155
5/8 inch	260 to 293	190 to 215
3/4 inch	480 to 515	340 to 380
7/8 inch	745 to 835	550 to 615
1.0 inch	1120 to 1280	825 to 925
1-1/8 inch	1585 to 1785	1170 to 1315
1-1/4 inch	2215 to 2235	1650 to 1855
1-3/8 inch	2930 to 3295	2160 to 2430
1-1/2 inch	3895 to 4375	2870 to 3225

NOTE: *Use thick nuts with Grade 8 bolts.*

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RADIATOR

Removal

NOTE: *Put caps on all fittings and plugs in all disconnected hoses.*

STEP 1

Park the machine on a level surface. Remove the bucket or attachment from the loader arms. Raise the loader arms and lock the loader arms into the raised position.

STEP 2

Turn the ignition switch and the master disconnect switch (if equipped) to the OFF position.

STEP 3

Disconnect the negative battery cable from the battery.

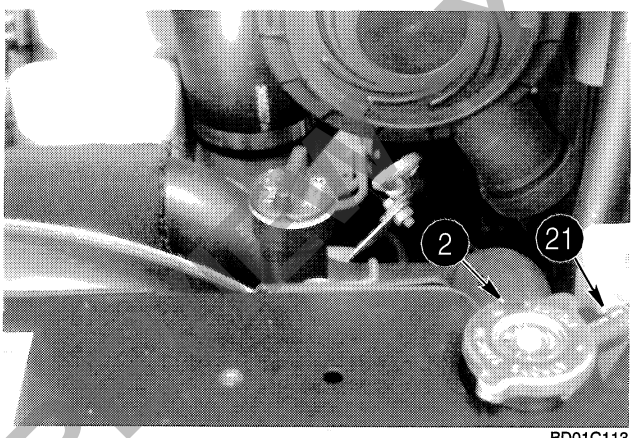
STEP 4

Tilt the cab forward.

STEP 5

Open the rear access door on the machine and open the hood.

STEP 6

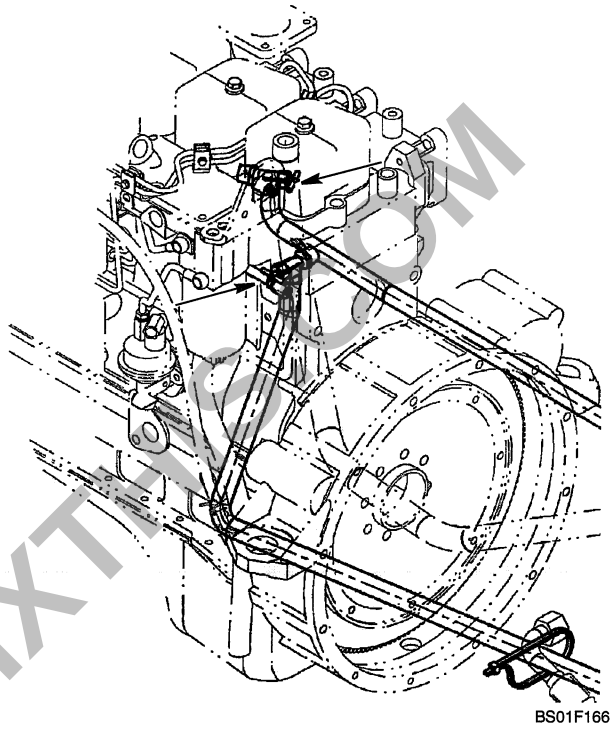


BD01C113

Slowly loosen the radiator cap (2). Disconnect the overflow hose (21) from the radiator neck.

NOTE: *Refer to illustration on page 11.*

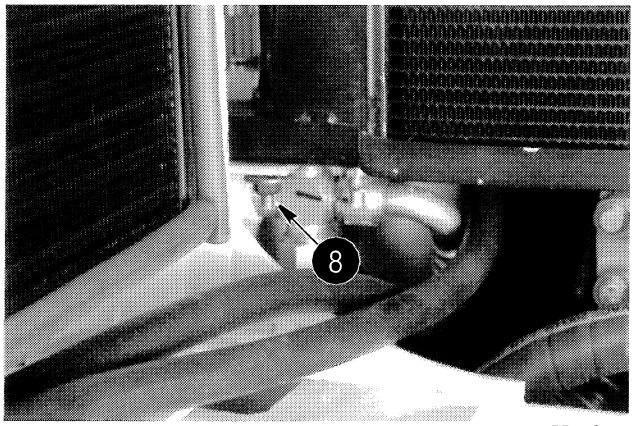
STEP 7



BS01F166

If equipped with a heater, open the heater coolant valves on the engine.

STEP 8



BD01C133

Install a hose on the drain valve (8) and drain the radiator (1) into a clean container that holds approximately 17 litres (4.5 gallons).

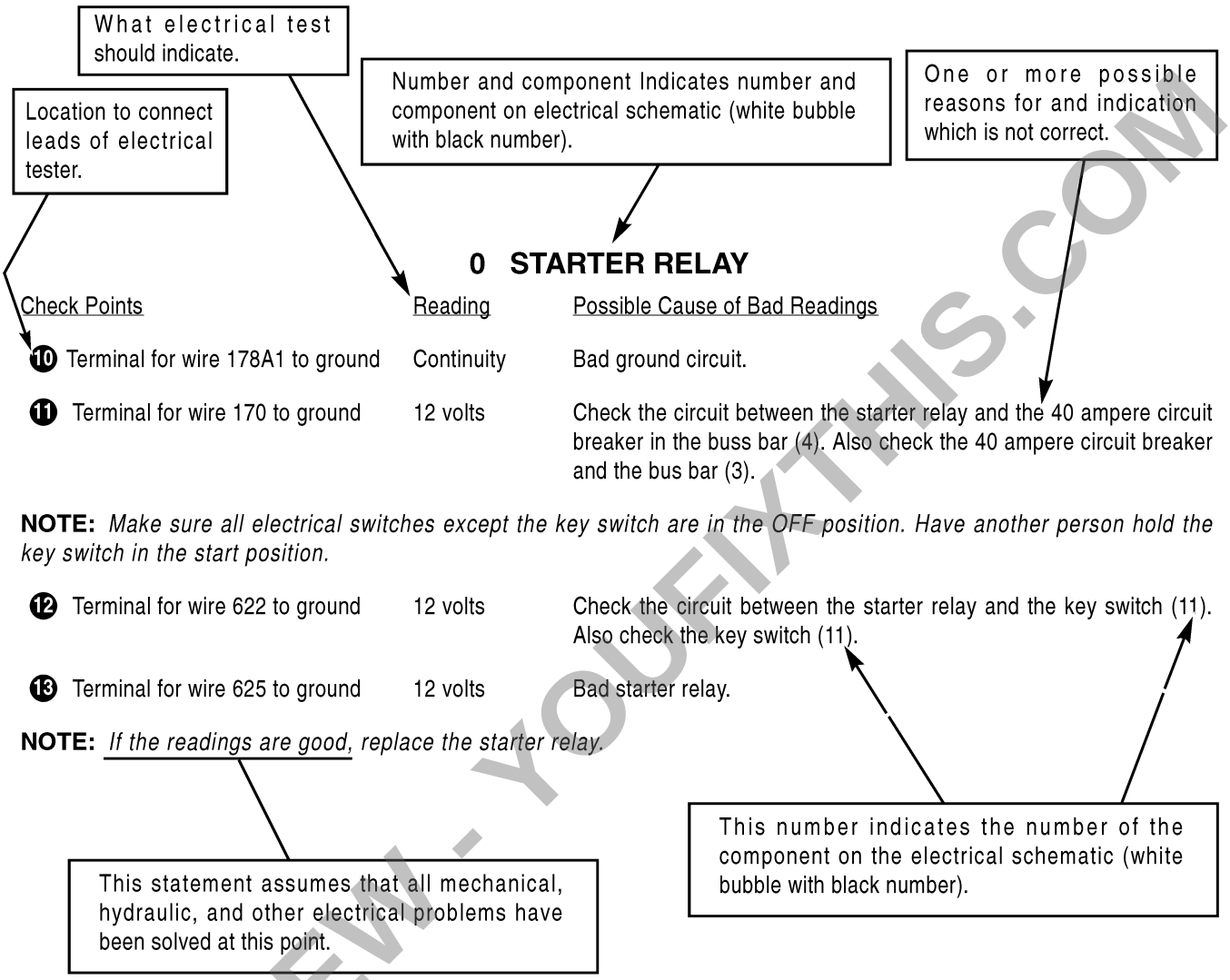
NOTE: *Refer to illustration on page 11.*

STEP 9

If equipped with a heater, close the heater coolant valves on the engine.

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TROUBLESHOOTING EXAMPLE



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CAPACITIES AND LUBRICANTS

FUEL TANK
- Capacity ..... 83.3 litres (22 U.S. gallons)
- Specifications ..... See diesel fuel specifications on page 5

COOLING SYSTEM
- Capacity ..... 16.6 litres (17.5 quarts)
- Recovery bottle capacity ..... 2 litres (2.1 quarts)
- Specifications ..... 50% water and 50% ethylene glycol

HYDRAULIC SYSTEM
- Capacity - System ..... 50.2 litres (13.3 gallons)
- Specifications ..... Case No. 1 Engine Oil SAE 10W30
  ..... add 1.4 litres (1.5 quarts) HTA Wear Additive

CHAIN COMPARTMENTS
- Capacity - Each Side ..... 5.7 litres (6.0 quarts)
- Specifications ..... Case No. 1 Engine Oil, SAE 10W30

BATTERY
- Quantity ..... As required
- Specifications ..... Distilled water

GREASE FITTINGS
- Quantity ..... As required
- Attachments (If equipped) ..... Quantity as required
- Specifications ..... Case molydisulfide grease

ENGINE CRANKCASE OIL
- Capacity - with filter change ..... 10.4 litres (11.0 quarts)
- Capacity - without filter change ..... 9.5 litres (10.0 quarts)
- Specifications ..... Case No. 1 Engine Oil SAE 15W-40 (API service CH-4)
  ..... (See Oil Viscosity/Temperature Ranges Chart on page 4)

ENVIRONMENT

Before you service this machine and dispose of oil, fluids and lubricants, always remember the environment. Do not put oil or fluids into the ground or into containers that can leak. Check with your local environmental, recycling center or your Case dealer for correct disposal information.

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SAFETY RULES

WARNING: *Never try to charge the battery if the electrolyte is frozen.*

47-3A

WARNING: *Never cause sparks to occur or smoke near batteries that are charging or have been recently charged.*

13-8A

WARNING: *Disconnect the ground cable first when the battery cables are disconnected from the battery. Connect the ground cable last when the battery cables are connected to the battery.*

47-55A

WARNING: *Some batteries have a ventilation tube. If there is battery acid in the ventilation tube, this battery acid can be released when the battery is turned upside down. If you turn the battery upside down, make sure that the end of the ventilation tube is away from you and away from any other people in the area. Battery acid can cause severe burns.*

48-57B

WARNING: *If the battery(ies) in this machine must have nonspill caps, do not operate the machine if the nonspill caps do not work correctly, or if the nonspill caps are not in place.*

48-99A

WARNING: *Battery acid causes severe burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes, or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately. EYES: Flush with water for 15 minutes and get prompt medical attention.*

Batteries produce explosive gases. Keep sparks, flame, and cigarettes away. Ventilate when charging or using in an enclosed area. Always shield eyes when working near batteries. Keep out of reach of children.

D-47-53

MAINTENANCE

Electrolyte Level

If the battery is a maintenance free battery, check the level of the electrolyte every 1000 hours of operation or six months, whichever occurs first. For all other batteries, check the level of the electrolyte every 250 hours of operation.

NOTE: *A maintenance free battery will have the words Maintenance Free on the decal on the top of the battery. If the center part of the decal has been removed for access to the battery caps, it is possible that the words Maintenance Free have been removed from the decal.*

Check the level of the electrolyte more often during hot weather. The use of a large amount of water by the battery can be caused by high battery temperature or a voltage regulator setting that is too high. Keep the electrolyte level above the top of the plates in the battery at all times to prevent damage to the battery.

NOTE: *On maintenance free batteries it is necessary to remove the center part of the decal for access to the battery caps. Do not discard the center part of the decal. Install the center part of the decal after the battery caps have been installed.*

If the level of the electrolyte is low, add distilled water or other clean water until the electrolyte is just below the cell opening. Do not add more water than is needed. Too much water can cause bad performance, a short service life, and corrosion around the battery.

NOTE: *Add water only. DO NOT add electrolyte.*

Inspecting and Cleaning a Battery

If damage causes an electrolyte leak, replace the battery.

If the battery in your machine has nonspill caps, see Nonspill Caps on page 4005-4 and check the condition of the nonspill caps. See Specifications in Section 4002 to find if the battery in your machine must have nonspill caps.

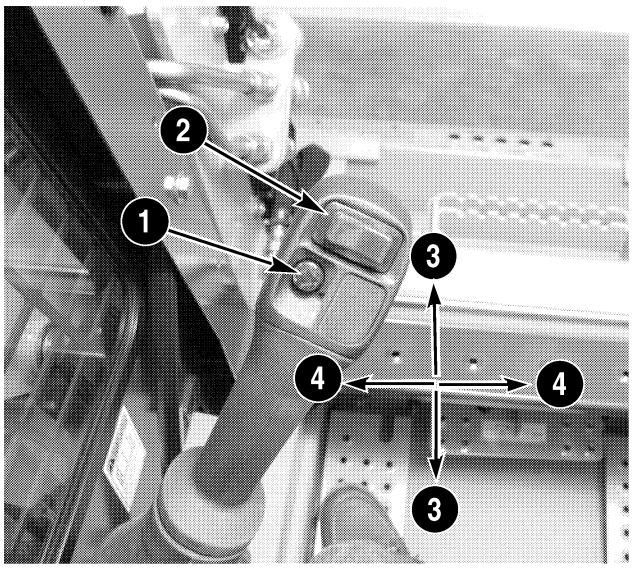
Inspect the battery at regular intervals for dirt, corrosion, and damage. Electrolyte and dirt on the top of the battery can cause the battery to discharge by making a passage for the current to flow.

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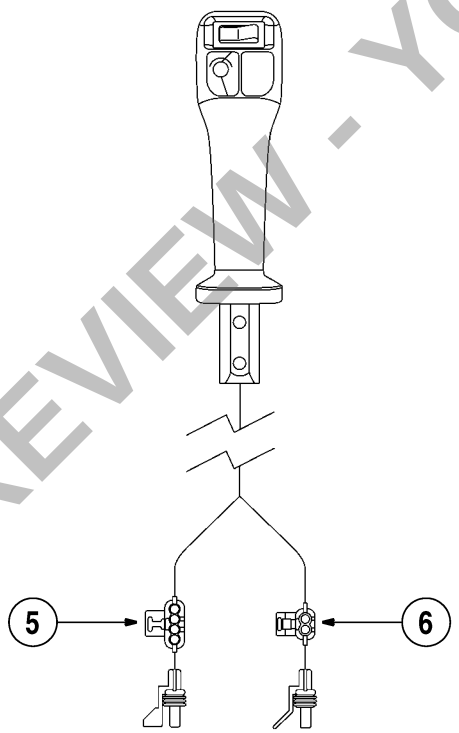
CONTROL LEVERS

Left Hand Control Lever



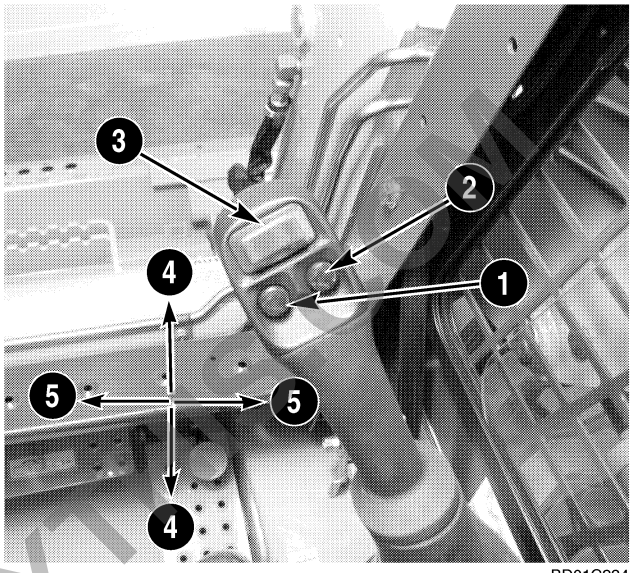
HD01E016

1. BRAKE SWITCH (PUSH BUTTON, ALTERNATE ACTION)
2. HIGH FLOW SWITCH (REVERSE/NEUTRAL/FORWARD)
3. LEFT SIDE STEERING (FORWARD/REVERSE)
4. LOADER CONTROL (RAISE/LOWER/FLOAT)
5. BRAKE CIRCUIT CONNECTOR
6. HIGH FLOW CIRCUIT CONNECTOR



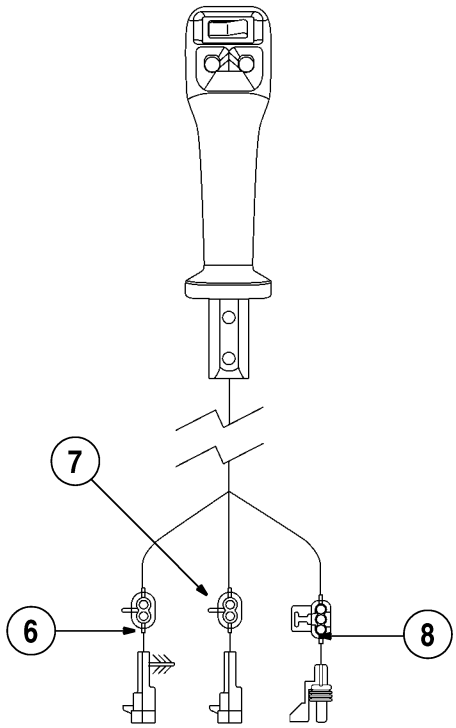
HI01E007

Right Hand Control Lever



BD01C234

1. HORN BUTTON (PUSH BUTTON, MOMENTARY ACTION)
2. RIDE CONTROL BUTTON (PUSH BUTTON, MOMENTARY ACTION)
3. FRONT ELECTRICS CONTROL SWITCH (TOGGLE)
4. RIGHT SIDE STEERING (FORWARD/REVERSE)
5. BUCKET CONTROL (ROLLBACK/DUMP)
6. HORN CIRCUIT CONNECTOR
7. RIDE CONTROL CIRCUIT CONNECTOR
8. FRONT ELECTRICS CIRCUIT CONNECTOR



HI01E008

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Standard Torque Specifications	1002
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Electrical System - “How it Works”	4000
Electrical Specifications and Troubleshooting	4001
Battery	4005
Starter and Starter Solenoid	4006
Alternator	4007

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42 Washer Pump

Check Points	Reading	Possible Cause of Bad Readings
⓱ Terminal for wire 178BV to ground	Continuity	Bad ground circuit.

NOTE: *Put the ignition switch in the RUN position. Press and hold the washer pump switch.*

⓲ Terminal for wire 835A to ground	12 volts	Check the circuit between the washer pump and the wiper motor (43). Also check the wiper motor (43).

NOTE: *If the readings are correct, and the washer pump does not work, replace the washer pump.*

43 Wiper Motor

Check Points	Reading	Possible Cause of Bad Readings
⓳ Terminal for wire 178BU to ground	Continuity	Bad ground circuit.

NOTE: *Put the ignition switch in the RUN position.*

⓴ Terminal for wire 830K to ground	12 volts	Check the circuit between the wiper motor and the 30 ampere fuse in the primary fuse block (7). Also check the 30 ampere fuse and primary fuse block (7).

NOTE: *Press and hold the washer pump switch.*

㉑ Terminal for wire 835A to ground	12 volts	Bad wiper motor.

44 High Flow Switch

Check Points	Reading	Possible Cause of Bad Readings

NOTE: *Have someone sit in the seat with the seat bar in the down position. Put the ignition switch in the RUN position.*

㉒ Terminal for wire 311E to ground	12 volts	Check the circuit between the high flow switch and the loader valve solenoid relay (13). Also check the loader valve solenoid relay (13).

NOTE: *Have another person hold the high flow switch in the FWD position.*

㉓ Terminal for wire 545A to ground	12 volts	Bad high flow switch or internal handle wiring. Disassemble handle and check the circuit between the high flow switch and the connector. If OK, replace the high flow switch.

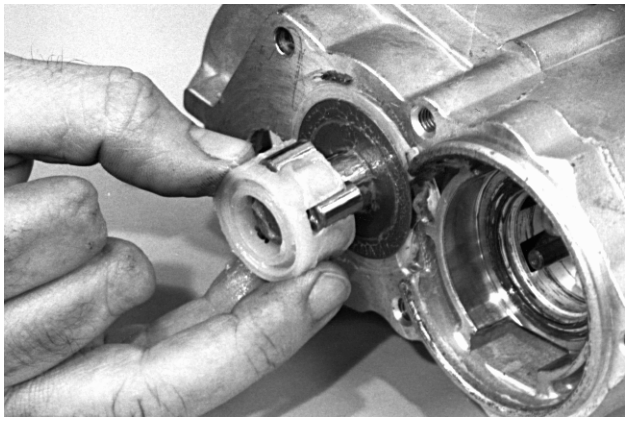
NOTE: *Have another person hold the high flow switch in the REV position.*

㉔ Terminal for wire 546A to ground	12 volts	Bad high flow switch or internal handle wiring. Disassemble handle and check the circuit between the high flow switch and the connector. If OK, replace the high flow switch.

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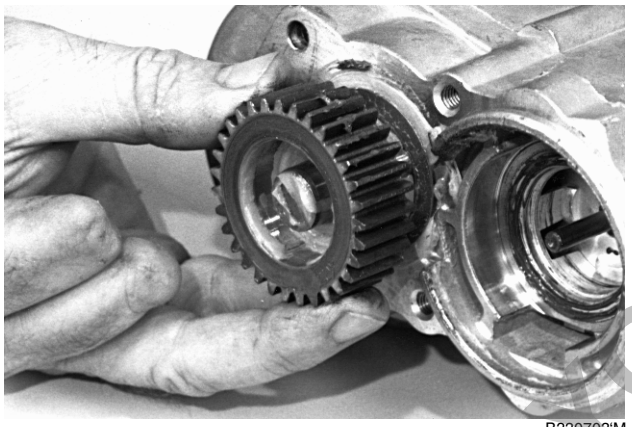
STEP 30



B330704M

Install the bearing cage as shown.

STEP 31



B330703'M

Install the idler gear.

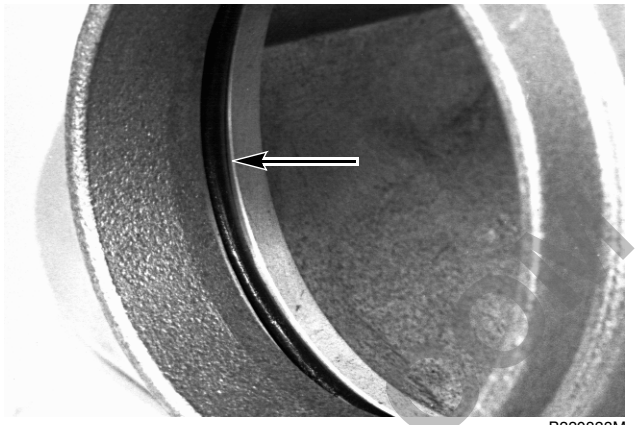
STEP 32



B330837M

Install the spring.

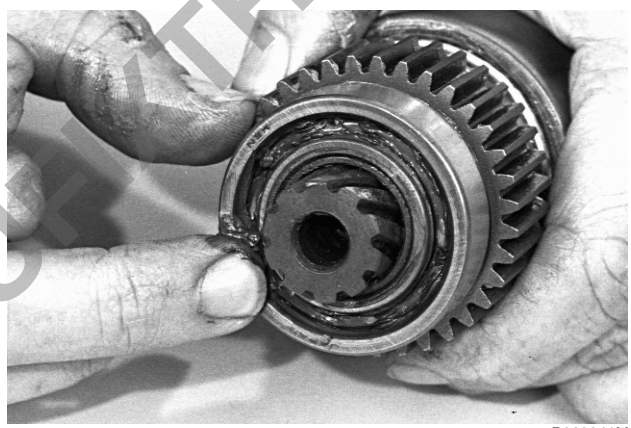
STEP 33



B330838M

Install a new O-ring in the groove in the starter drive housing. Lubricate the O-ring.

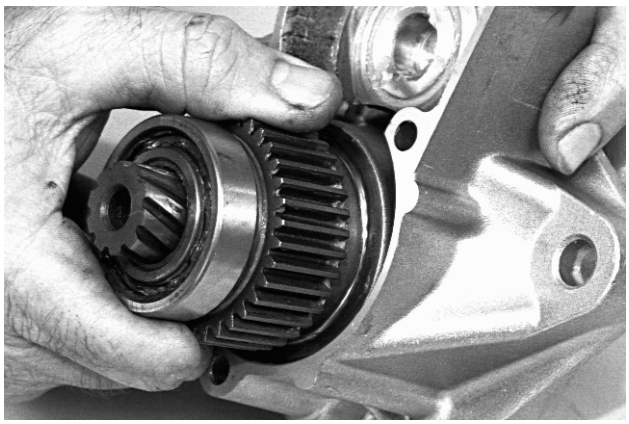
STEP 34



B330841M

Lubricate the open bearing on the starter drive with the grease specified on page 3.

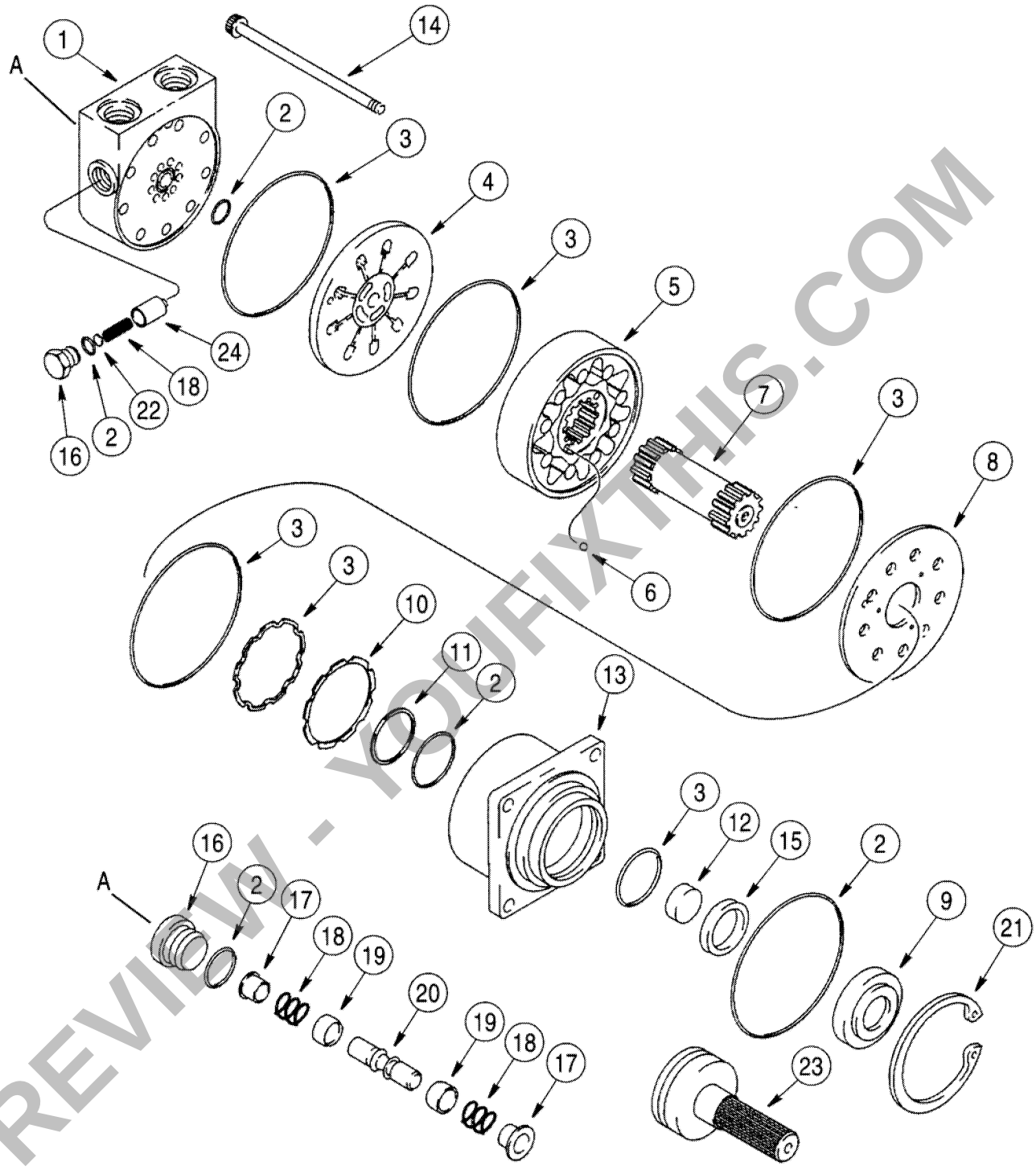
STEP 35



B330802M

Insert the starter drive into the starter drive housing.

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HS01D063

1. END CAP	7. DRIVE SHAFT	13. BEARING HOUSING	19. POPPET
2. O-RING	8. THRUST PLATE	14. CAP SCREW	20. PISTON
3. SEAL	9. RETAINER	15. SHAFT SEAL	21. RETAINING RING
4. VALVE PLATE	10. BACK-UP RING	16. PLUG	22. SHIM
5. GEROLER	11. BACK-UP O-RING	17. BUSHING	23. SHAFT
6. BALL	12. SPACER	18. SPRING	24. POPPET

HYDROSTATIC DRIVE MOTOR

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AXLE DISASSEMBLY 8
AXLE INSPECTION 10
AXLE ASSEMBLY 13

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SPECIFICATIONS

Brake System (North American Machines)

Type ..... Pin Lock, Spring Applied, Cable Release

Brake System (European Machines and Optional North American Machines)

Type ..... Wet Disk, Spring Applied, Hydraulic Release

Release Pressure (Maximum) Fully Disengaged ..... 27.6 bar (400 psi)

Safety Rules

WARNING: *Raised equipment or machine movement without an operator can cause injury or death. Before you service this machine, do the following:*

1. *Park the machine on a level surface,*
2. *Support or lower the equipment (backhoe, blade, boom, bucket, etc.) to the ground (if equipped).*
3. *If the loader arms are raised for serviceability, remove the attachment prior to raising the loader arms, then engage the lock pin or strut.*
4. *Apply the parking brake.*
5. *Stop the engine.*
6. *Block the machine (wheels, tracks, etc.) to prevent machine movement.*

84-108

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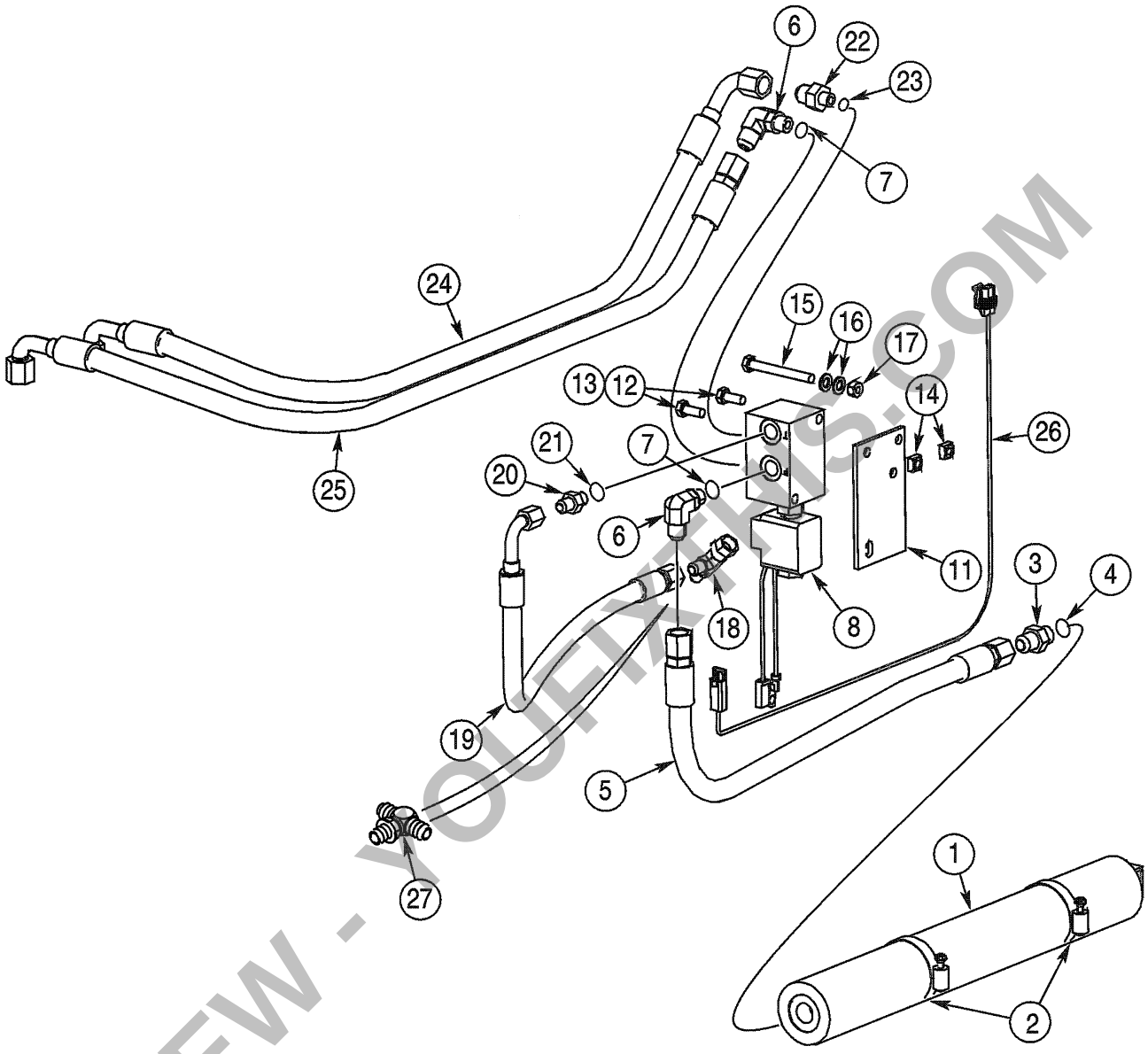
Loader In Float

With the loader spool in float, the following will happen:

1. The float switch in the loader lift spool end cover will close, activating the Self-Leveling On-Off Solenoid valve. This then connects the two ports of the flow divider cartridge to each other turning the self-leveling function off.
2. The loader spool will port the pump supply flow through the spool to be available to the bucket spool or the power beyond port of the loader valve.
3. The loader spool will connect both the loader raise and lower ports together and also to the return port of the loader valve. This will allow the loader to lower to the ground and then to follow the contour of the ground as the machine travels.

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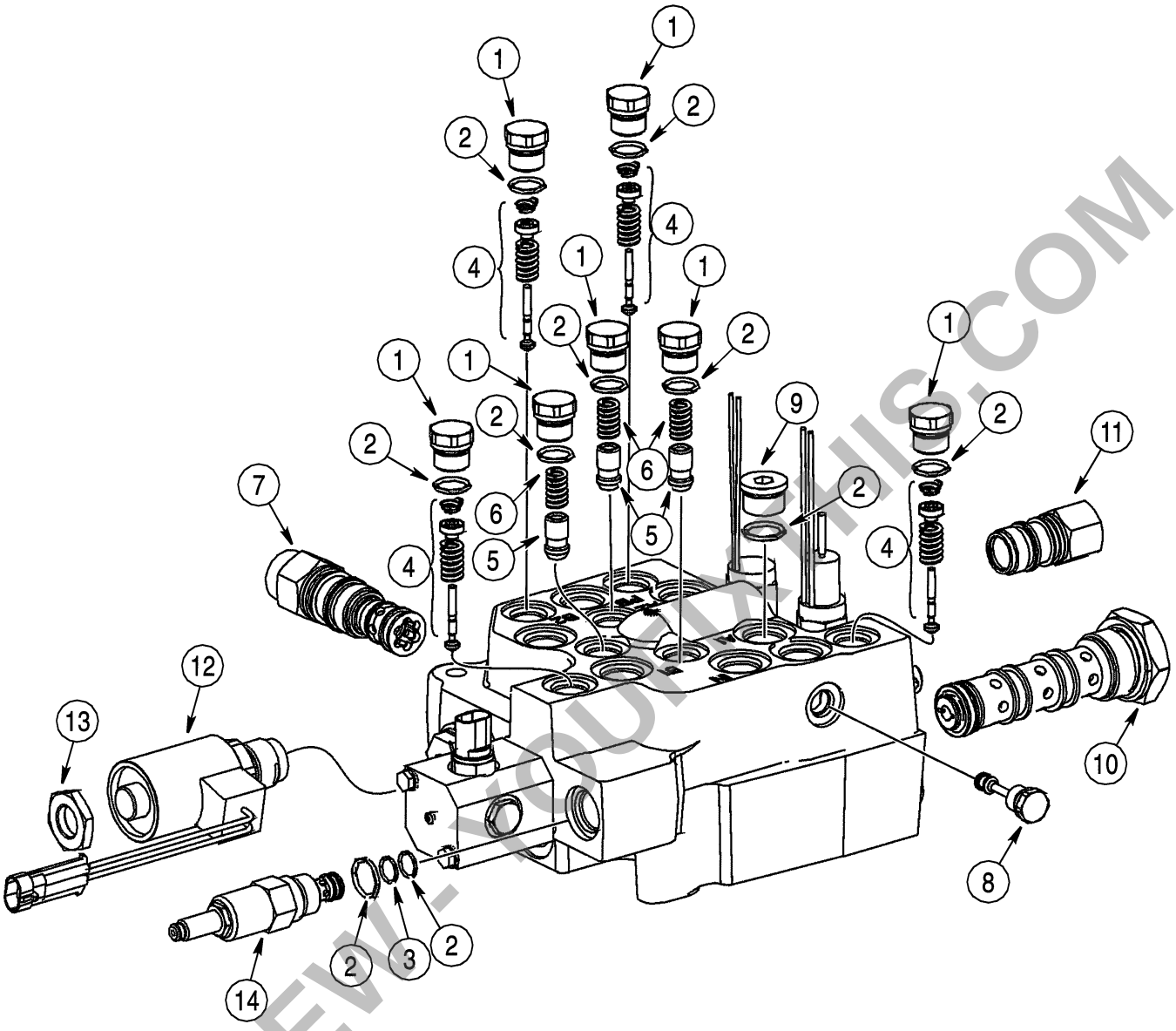
BC01C162

1. ACCUMULATOR
2. CLAMP
3. ADAPTER
4. O-RING
5. HOSE
6. 90° ELBOW
7. O-RING
8. SOLENOID VALVE
9. NOT SHOWN
10. NOT SHOWN
11. BRACKET
12. BOLT
13. BOLT
14. SPECIAL NUT
15. BOLT
16. WASHER
17. LOCK NUT
18. TEE
19. HOSE
20. ADAPTER
21. O-RING
22. ADAPTER
23. O-RING
24. HOSE
25. HOSE
26. HARNESS
27. TEE

RIDE CONTROL HYDRAULIC INSTALLATION

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BC01J003

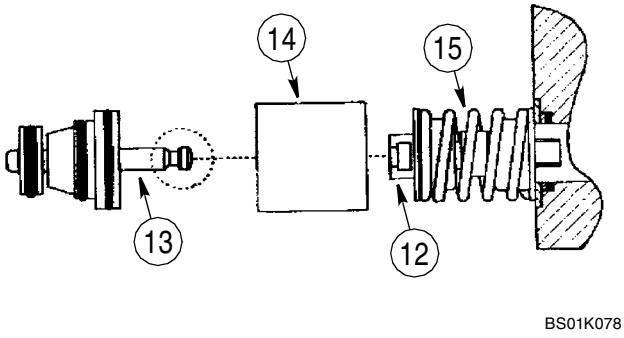
1. PLUG
2. O-RING
3. BACKUP RING
4. RELIEF VALVE
5. VALVE POPPET
6. SPRING
7. COUNTERBALANCE VALVE CARTRIDGE
8. PLUG ASSEMBLY
9. HEX SOCKET PLUG
10. FLOW CONTROL CARTRIDGE
11. COUNTERBALANCE CARTRIDGE
12. SOLENOID VALVE
13. SPECIAL NUT
14. RELIEF VALVE

EXPLODED VIEW OF DUAL SELF-LEVELING CONTROL VALVE

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STEP 10



BS01K078

12. SPOOL ADAPTER SCREW
13. PISTON ROD
14. SPACER
15. SPRING

Loosen the spool adapter screw (12) slightly.

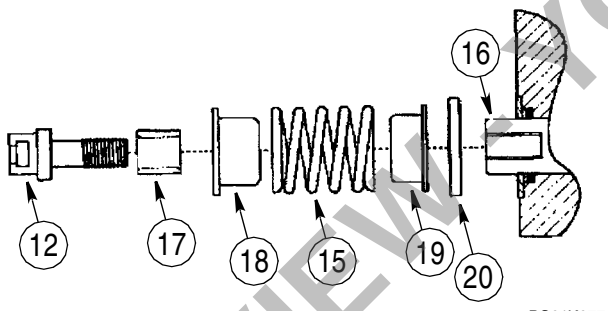
STEP 11

Remove the piston (38) and guide (40) assembly from the spool adapter screw (12), by sliding the piston rod (13) end out of the spool adapter screw.

STEP 12

Remove the spacer sleeve (14) from the spring (15) assembly.

STEP 13



BS01K077

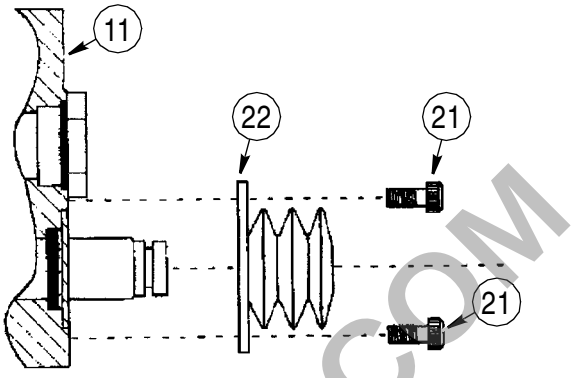
12. SPOOL ADAPTER SCREW
15. SPRING
16. SPOOL
17. SPACER
18. COLLAR
19. COLLAR
20. SEAL RETAINER

Remove the spool adapter screw (12) from the spool (16).

STEP 14

Remove the spacer (17), collar (18), spring (15), collar (19), and seal retainer (20).

STEP 15



BS01K082

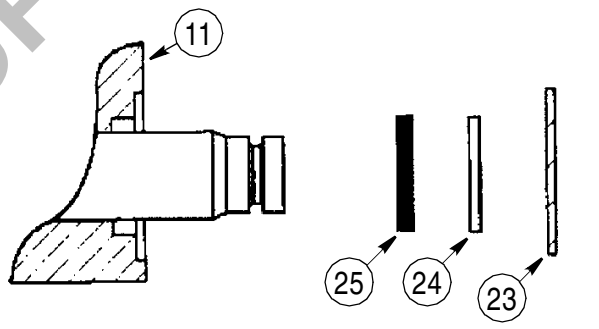
11. VALVE BODY
21. SCREW
22. RETAINER BOOT

Remove the bolts (21) holding the retainer boot (22) from the valve body (11).

STEP 16

Remove the retainer boot (22) from the valve body (11).

STEP 17



BS01K082

11. VALVE BODY
23. SEAL RETAINER
24. SEAL
25. BACKUP WASHER

Remove the special washer (23) from the valve body (11).

STEP 18

Remove the spool (16) from the valve body (11).

STEP 19

Remove the load check plug (26) from the valve body (11).

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MOUNTED EQUIPMENT

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REMOVAL OF THE ROPS CANOPY

NOTE: Refer to the illustration on page 5.

1. Park the unit on a level surface and remove the bucket from the unit.
2. Raise the loader arm and engage the loader arm support strut.
3. Stop the engine and remove the key.
4. Using a floor jack, raise the unit and place a suitable jack stand(s) under the unit.
5. Remove one of the tires/wheels from the unit. This will be the side to which the ROPS pivot pin (8) will be removed from.
6. Tilt the cab into the forward position.
7. Use the floor jack to raise the loader arm away from the chassis. It will be necessary to activate the manual override on the control valve to move the lift control lever to allow the arms to be raised. Raise the loader just high enough to be able to clear the ROPS pivot shaft (8) from the unit.

IMPORTANT: *Do not attempt to remove the gas strut cylinder (1) mounting hardware with the ROPS in the lowered position.*

8. With the cab in the tilted position, remove the gas cylinder mounting bolt (2), washers (3), and lock nut (5) and gas strut cylinder (1).
9. Remove the electrical harness clamp from under the floor panel bolt. Loosen the retaining bolt in the cab harness connector and uncouple the connector from the socket in the chassis.
10. Remove the wire harness retaining clip(s) from the canopy pivot pin (8).
11. Remove the lock rings (9) from the pivot pin (8).
12. Place overhead lift chains or straps in the sidescreen cutouts (toward the rear of the cutouts) and remove any slack between the lift and the ROPS.
13. Drive out the pivot pin (8) and lift the ROPS from the unit.

INSTALLATION OF THE ROPS CANOPY

1. Raise the ROPS over the chassis. Lower the ROPS until the pivot pin hole in the ROPS align with the ROPS ears on the chassis.
2. Install the pivot pin (8) through the chassis ear and ROPS pivot holes.
3. Inspect the lock rings (9) and replace if necessary. Install both lock rings (9) in the pivot pin (8) ring grooves.
4. Insert the cab wire harness clips over the pivot pin (8).
5. Insert the cab wire harness connector into the socket in the chassis kick plate.
6. Install the clamp and bolt into the floorplate.
7. Install the gas strut cylinder (1), with the rod end facing down, lock nut (5), washers (3), and bolt (2).
8. Install the tire/wheel assembly and torque wheel nuts to 135 to 163 Nm (100 to 120 pound-feet). Refer to Section 6011.
9. Lift the front of the unit with the floor jack and remove the jack stand(s) from underneath. Lower the unit to the ground.

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