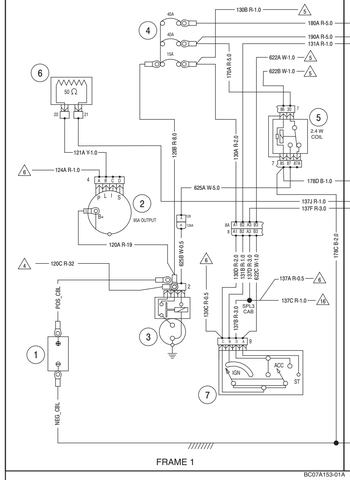
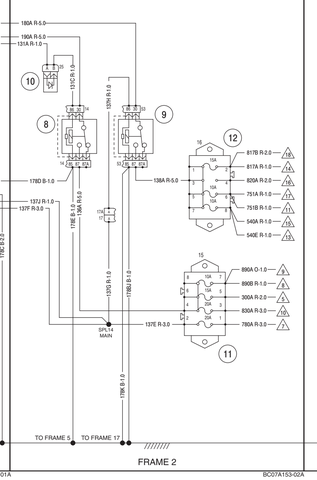
STARTING SYSTEM



FRAME 1

BC07A153-01A

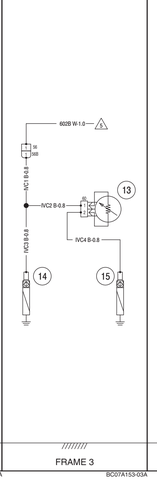
POWER DISTRIBUTION



FRAME 2

BC07A153-02A

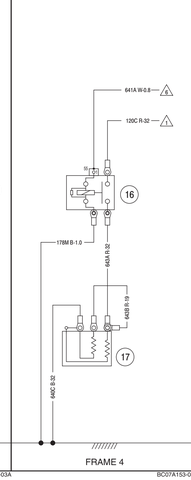
FUEL SUPPLY SYSTEM



FRAME 3

BC07A153-03A

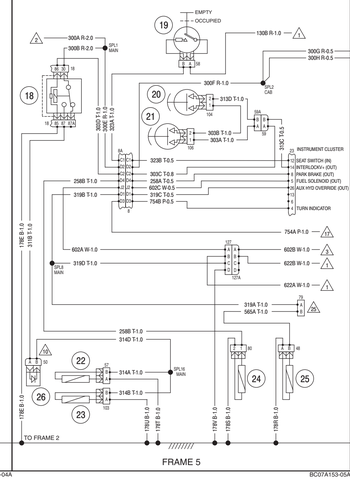
GRID HEATER SYSTEM



FRAME 4

BC07A153-04A

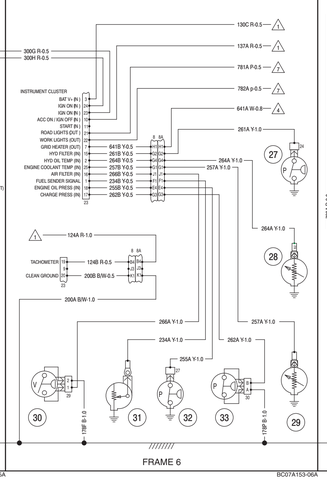
SAFETY INTERLOCK SYSTEM



FRAME 5

BC07A153-05A

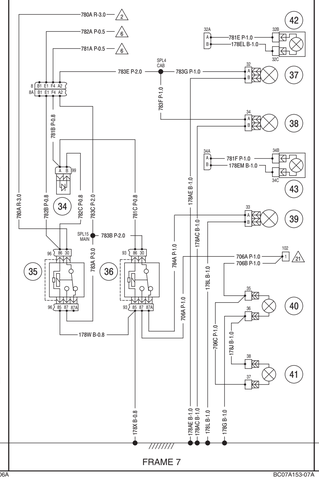
INSTRUMENT CLUSTER



FRAME 6

BC07A153-06A

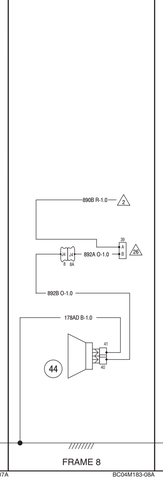
STANDARD LAMPS



FRAME 7

BC07A153-07A

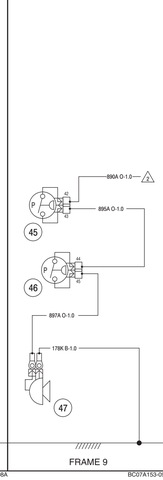
HORN (OPTIONAL)



FRAME 8

BC04M183-08A

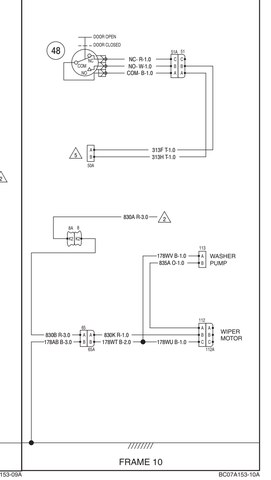
BACK-UP ALARM (OPTIONAL)



FRAME 9

BC07A153-09A

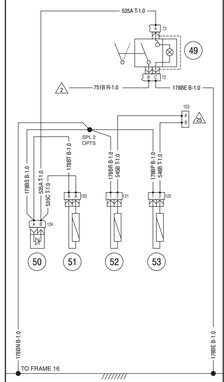
FRONT DOOR (OPTIONAL)



FRAME 10

BC07A153-10A

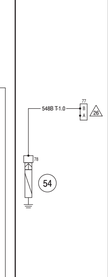
HIGH FLOW ELECTRO-HYDRAULIC ATTACHMENT FLOW (OPTIONAL)



FRAME 11

BC07A153-11A

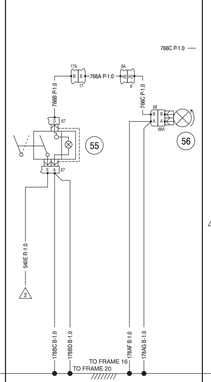
RIDE CONTROL (OPTIONAL)



FRAME 12

BC07A153-12A

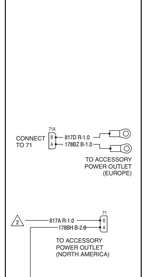
ROTATING BEACON (OPTIONAL)



FRAME 13

BC07A153-13A

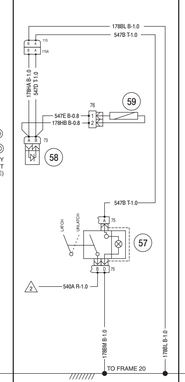
ELECTRICAL ACCESSORY OUTLET (OPTIONAL)



FRAME 14

BC07A153-14A

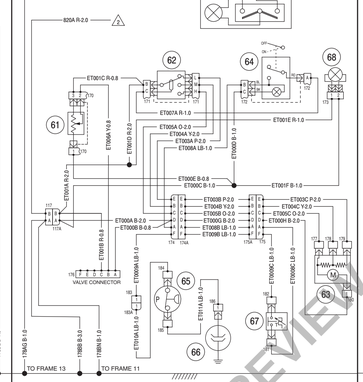
HYDRAULIC COUPLER (OPTIONAL)



FRAME 15

BC07A153-15A

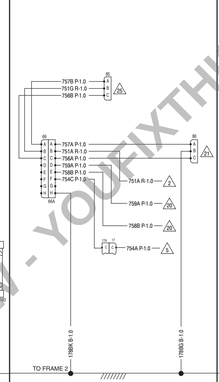
DOME LIGHT/HEATER/HVAC (OPTIONAL)



FRAME 16

BC07A153-16A

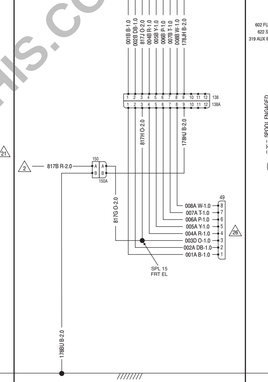
TURN SIGNALS (OPTIONAL)



FRAME 17

BC07A153-17A

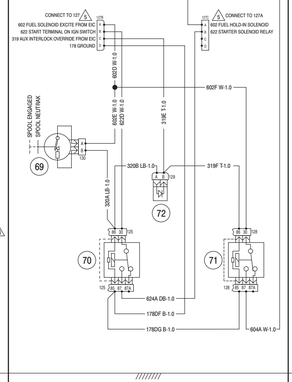
LOADER ARM AUXILIARY ELECTRIC (OPTIONAL)



FRAME 18

BC07A153-18A

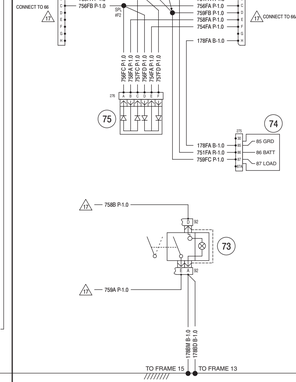
AUXILIARY OVERIDE SYSTEM



FRAME 19

BC07A153-19A

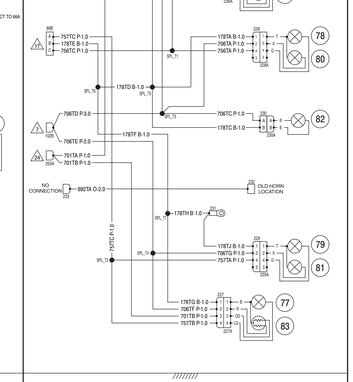
HAZARD SWITCH AND FLASHER HARNESS (OPTIONAL)



FRAME 20

BC07A153-20A

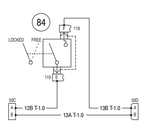
TURN SIGNAL LIGHTING



FRAME 21

BC07A153-21A

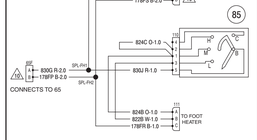
LOADER LOCK OUT (OPTIONAL)



FRAME 22

BC07A153-22A

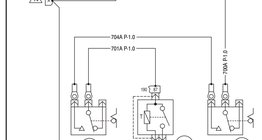
FOOT HEATER (OPTIONAL)



FRAME 23

BC04M183-23A

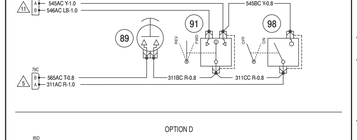
EURO ON ROAD BRAKE LIGHTS



FRAME 24

BC04M183-24A

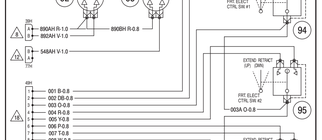
LEFT-HAND HANDLE (OPTIONS)



FRAME 25

BC04M183-25A

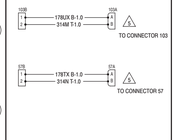
RIGHT-HAND HANDLE (OPTIONS)



FRAME 26

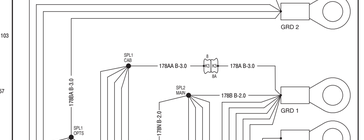
BC04M183-26A

PILOT HYDRAULIC CONTROL ADAPTERS (OPTIONAL)



FRAME 27

BC06IN857-27A

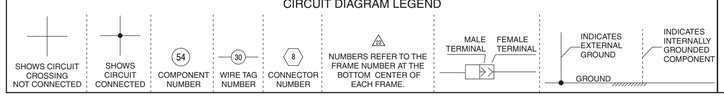


FRAME 28

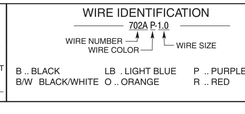
BC04M183-28A

1. BATTERY
2. ALTERNATOR
3. STARTER AND SOLENOID
4. CIRCUIT BREAKER
5. STARTER RELAY
6. RESISTOR (50 OHMS)
7. IGNITION SWITCH
8. MAIN POWER RELAY
9. OPTIONS POWER RELAY
10. DIODE (REVERSE POLARITY)
11. PRIMARY FUSE BLOCK
12. OPTIONS FUSE BLOCK
13. COLD START ADVANCE TEMPERATURE SENDER
14. FUEL HOLD-IN SOLENOID
15. COLD START ADVANCE SOLENOID
16. GRID HEATER RELAY
17. GRID HEATER
18. INTERLOCK RELAY
19. SEAT SWITCH
20. SEAT BAR SWITCH
21. CAB LOCK DOWN SWITCH
22. LOADER VALVE SOLENOID
23. LOADER VALVE SOLENOID
24. BRAKE RELEASE/TANDEM PUMP NEUTRAL OVERRIDE SOLENOID
25. TWO (2) SPEED SOLENOID
26. DIODE
27. HYDRAULIC PRESSURE SWITCH
28. HYDRAULIC OIL TEMPERATURE SENDER
29. ENGINE COOLANT TEMPERATURE SENDER
30. AIR FILTER RESTRICTION SWITCH
31. FUEL SENDER
32. ENGINE OIL PRESSURE SWITCH
33. CHARGE PRESSURE SWITCH
34. DIODE
35. LIGHT RELAY No. 1
36. LIGHT RELAY No. 2
37. LEFT FRONT WORKLIGHT
38. RIGHT FRONT WORKLIGHT
39. REAR WORKLIGHT
40. LEFT REAR INDICATOR LIGHT
41. RIGHT REAR INDICATOR LIGHT
42. LEFT FRONT EURO ROAD LIGHT
43. RIGHT FRONT EURO ROAD LIGHT
44. HORN
45. BACKUP ALARM SWITCH (LEFT)
46. BACKUP ALARM SWITCH (RIGHT)
47. BACKUP ALARM
48. CAB DOOR SWITCH
49. ELECTRO HYDRAULIC HIGH FLOW SWITCH
50. DIODE
51. COMBINATION SOLENOID
52. FORWARD SOLENOID
53. REVERSE SOLENOID
54. RIDE CONTROL SOLENOID
55. ROTATING BEACON SWITCH
56. ROTATING BEACON
57. HYDRAULIC COUPLER SWITCH
58. DIODE
59. HYDRAULIC COUPLER RELEASE SOLENOID
60. DOME LIGHT AND SWITCH
61. HEAT CONTROL SWITCH
62. FAN SPEED SWITCH
63. BLOWER MOTOR
64. AIR CONDITIONER SWITCH
65. AIR CONDITIONER PRESSURE SWITCH
66. AIR CONDITIONER COMPRESSOR CLUTCH
67. THERMOSTAT
68. AIR CONDITIONER INDICATOR LAMP
69. AUXILIARY HYDRAULIC NEUTRAL SPOOL SWITCH
70. STARTING INTERLOCK RELAY
71. FUEL SOLENOID RELAY
72. DIODE
73. HAZARD SWITCH
74. FLASHER MODULE
75. DIODE PACK
76. LEFT REAR TURN LIGHT
77. RIGHT REAR TURN LIGHT
78. LEFT FRONT TURN LIGHT
79. RIGHT FRONT TURN LIGHT
80. LEFT FRONT POSITION LIGHT
81. RIGHT FRONT POSITION LIGHT
82. LICENSE PLATE LIGHT
83. RESISTOR
84. LOADER LOCKOUT SWITCH (OPTIONAL)
85. FAN SPEED SWITCH (OPTIONAL FOOT HEATER)
86. LEFT BRAKE LIGHT SWITCH (EURO)
87. RIGHT BRAKE LIGHT SWITCH (EURO)
88. BRAKE LIGHT TIMER RELAY (EURO)
89. TWO (2) SPEED SWITCH
90. TURN SIGNAL SWITCH
91. ATTACHMENT HYDRAULIC SWITCH
92. HORN SWITCH
93. RIDE CONTROL SWITCH
94. FRONT ELECTRIC CONTROL SWITCH No. 1
95. FRONT ELECTRIC CONTROL SWITCH No. 2
96. FRONT ELECTRIC CONTROL SWITCH No. 3
97. FRONT ELECTRIC CONTROL SWITCH No. 4
98. ATTACHMENT HYDRAULIC FORWARD FLOW "ON" SWITCH

CIRCUIT DIAGRAM LEGEND



WIRE IDENTIFICATION



B .. BLACK
B/W BLACK/WHITE
LB . LIGHT BLUE
O .. ORANGE
P .. PURPLE
R .. RED

NOTES

ELECTRICAL SCHEMATIC
450, 465 SKID STEER and 450CT TRACK LOADER

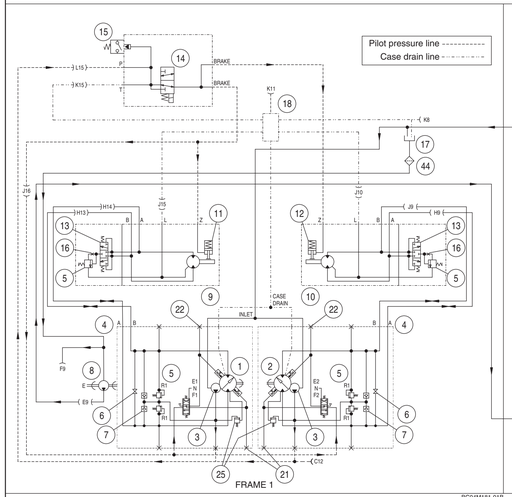
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The part number is 5-5361

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BC07A153-00A

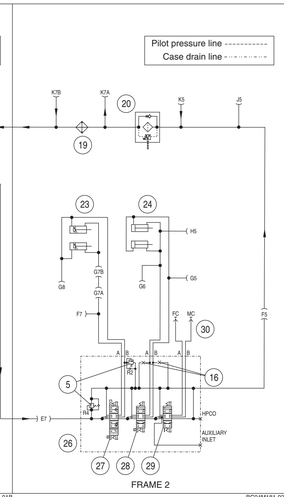
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FRAME 1

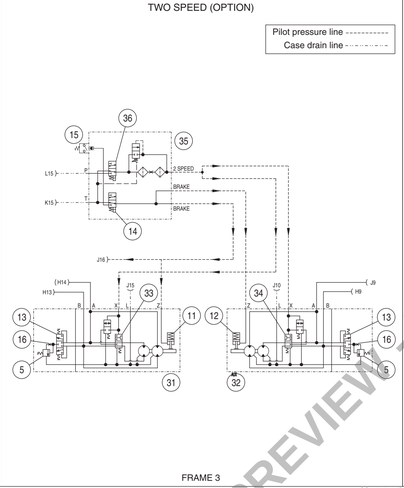
BC04M181-01B



FRAME 2

BC04M181-02B

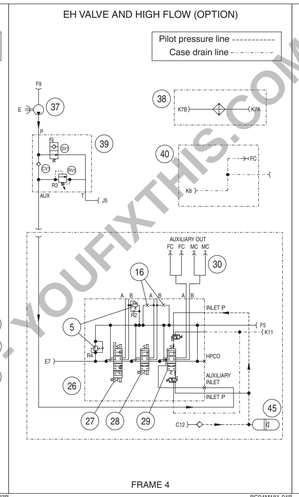
TWO SPEED (OPTION)



FRAME 3

BC04M181-03B

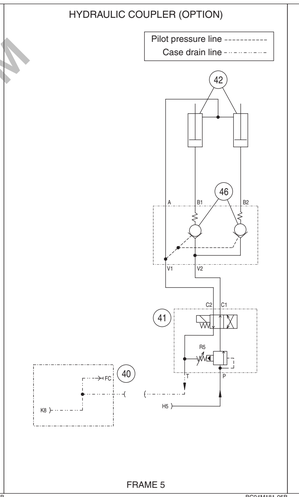
EH VALVE AND HIGH FLOW (OPTION)



FRAME 4

BC04M181-04B

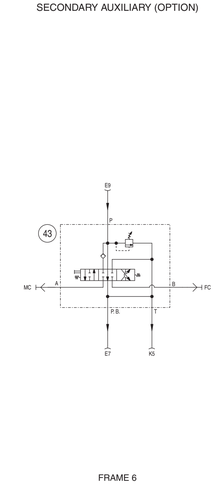
HYDRAULIC COUPLER (OPTION)



FRAME 5

BC04M181-05B

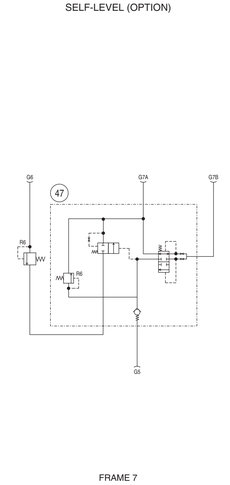
SECONDARY AUXILIARY (OPTION)



FRAME 6

BC04M181-06B

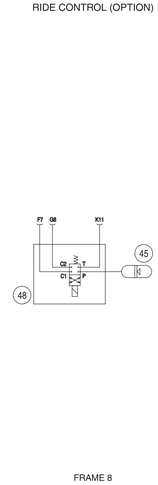
SELF-LEVEL (OPTION)



FRAME 7

BC04M181-07B

RIDE CONTROL (OPTION)



FRAME 8

BC04M181-08B

PREVIEW. YOUFIXTHIS.COM

COMPONENT IDENTIFICATION

1. LEFT PISTON PUMP
2. RIGHT PISTON PUMP
3. CHARGE PUMP
4. HYDROSTATIC PUMP
5. CIRCUIT RELIEF VALVE
6. TOW VALVE
7. CHECK VALVE
8. HYDRAULIC PUMP
9. LEFT DRIVE MOTOR
10. RIGHT DRIVE MOTOR
11. LEFT BRAKE
12. RIGHT BRAKE
13. FLUSHING VALVE
14. BRAKE SOLENOID VALVE
15. CHARGE PRESSURE SWITCH
16. ORIFICE
17. HYDRAULIC RESERVOIR
18. DRAIN MANIFOLD
19. OIL COOLER
20. OIL COOLER BYPASS VALVE
21. BACKUP ALARM SWITCH PORTS
22. BRAKE LIGHT SWITCH PORTS
23. TILT CYLINDERS
24. LIFT CYLINDERS
25. MAIN RELIEF VALVE
26. LOADER CONTROL VALVE
27. TILT SPOOL
28. LIFT SPOOL
29. AUXILIARY SPOOL
30. AUXILIARY OUTLETS
31. LEFT TWO SPEED MOTOR
32. RIGHT TWO SPEED MOTOR
33. LEFT TWO SPEED SHUTTLE VALVE
34. RIGHT TWO SPEED SHUTTLE VALVE
35. BRAKE/TWO SPEED VALVE
36. TWO SPEED SOLENOID VAVLE
37. HIGH FLOW PUMP
38. HIGH FLOW OIL COOLER
39. HIGH FLOW CONTROL VALVE
40. ATTACHMENT CASE DRAIN
41. HYDRAULIC COUPLER CONTROL VALVE
42. HYDRAULIC COUPLER CYLINDER
43. SECONDARY AUXILIARY CONTROL VALVE
44. 100 MESH SCREEN
45. ACCUMULATOR
46. CHECK VALVE
47. SELF-LEVEL VALVE
48. RIDE CONTROL SOLENOID VALVE

HYDRAULIC SYMBOLS

- 54 — COMPONENT NUMBER
- SHOWS CIRCUIT CROSSING NOT CONNECTED
- SHOWS CIRCUIT CONNECTED
- CHECK VALVE
- RESTRICTOR
- FILTER OR SCREEN
- OIL COOLER
- DIRECTION OF FLOW
- PRESSURE
- CASE DRAIN
- COMPONENT
- PILOT PRESSURE
- LINE TYPES

NOTES

HYDRAULIC SCHEMATIC
450, 450CT, AND 465 SKID STEER

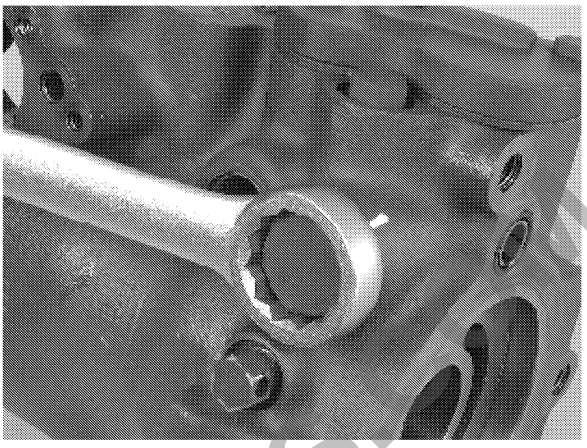
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45. Remove the hex plug.



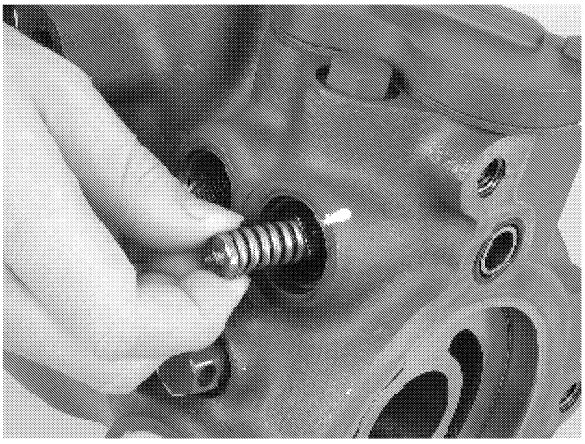
BD01H219 44

46. Remove the spring.



BD01H220 45

47. Remove the circuit relief-check valve.

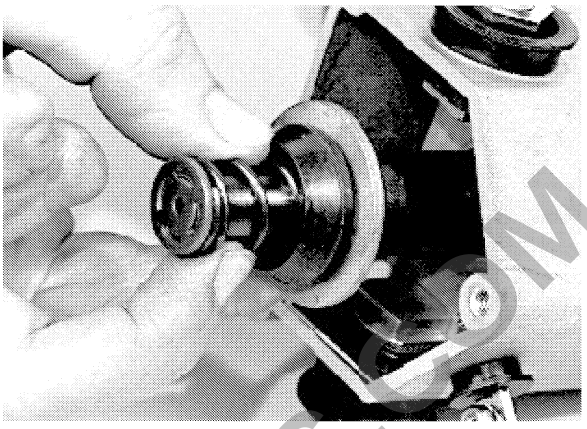


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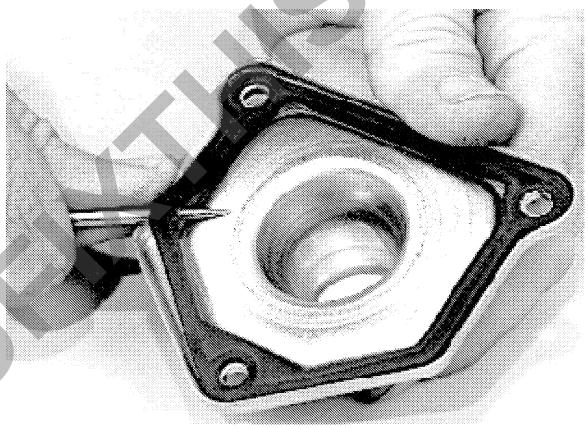
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21. Remove the plunger.



b330709 21

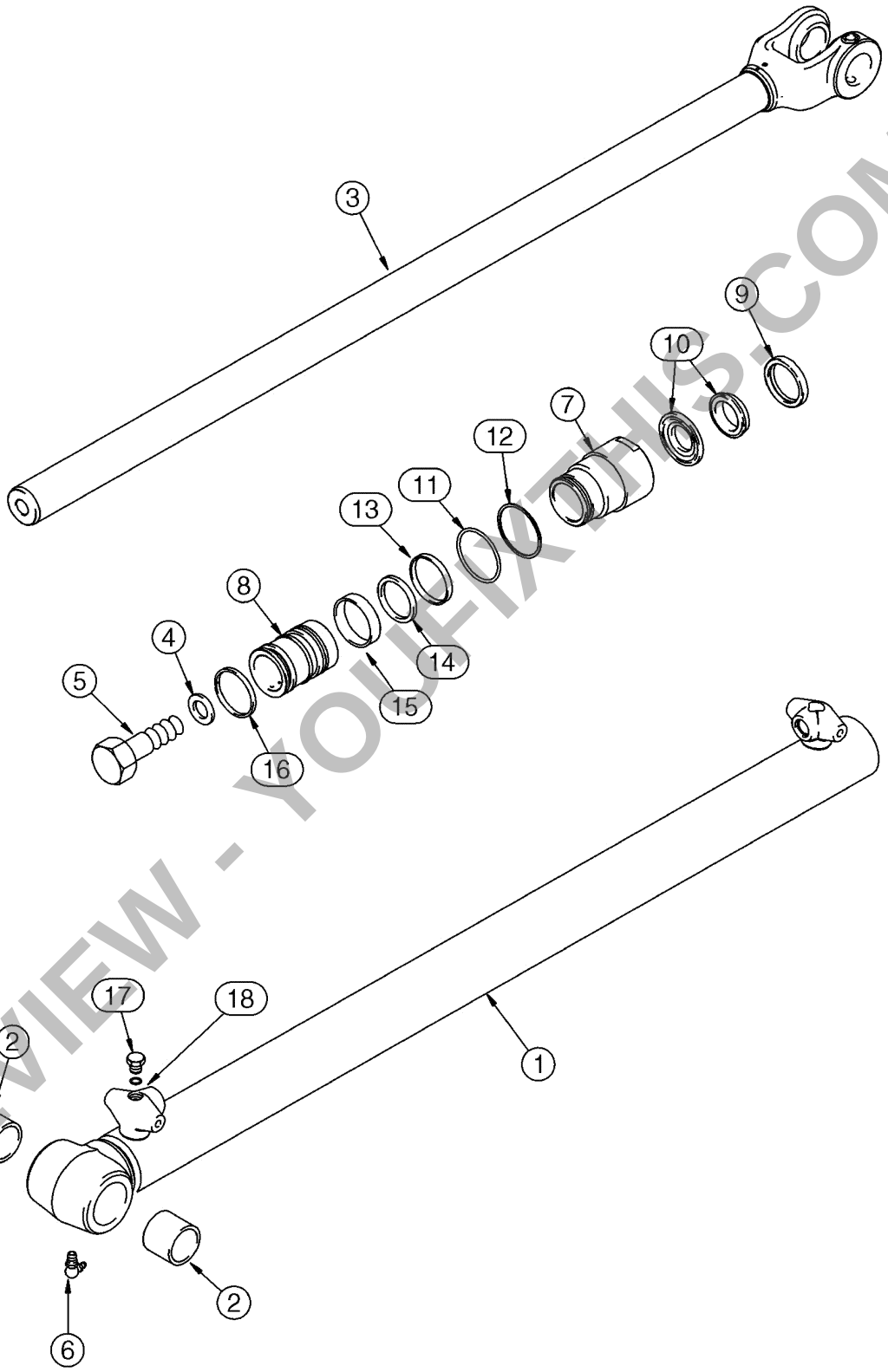
22. Inspect the gasket. Remove and replace the gasket if the gasket is worn or needs repair.



b330710 22

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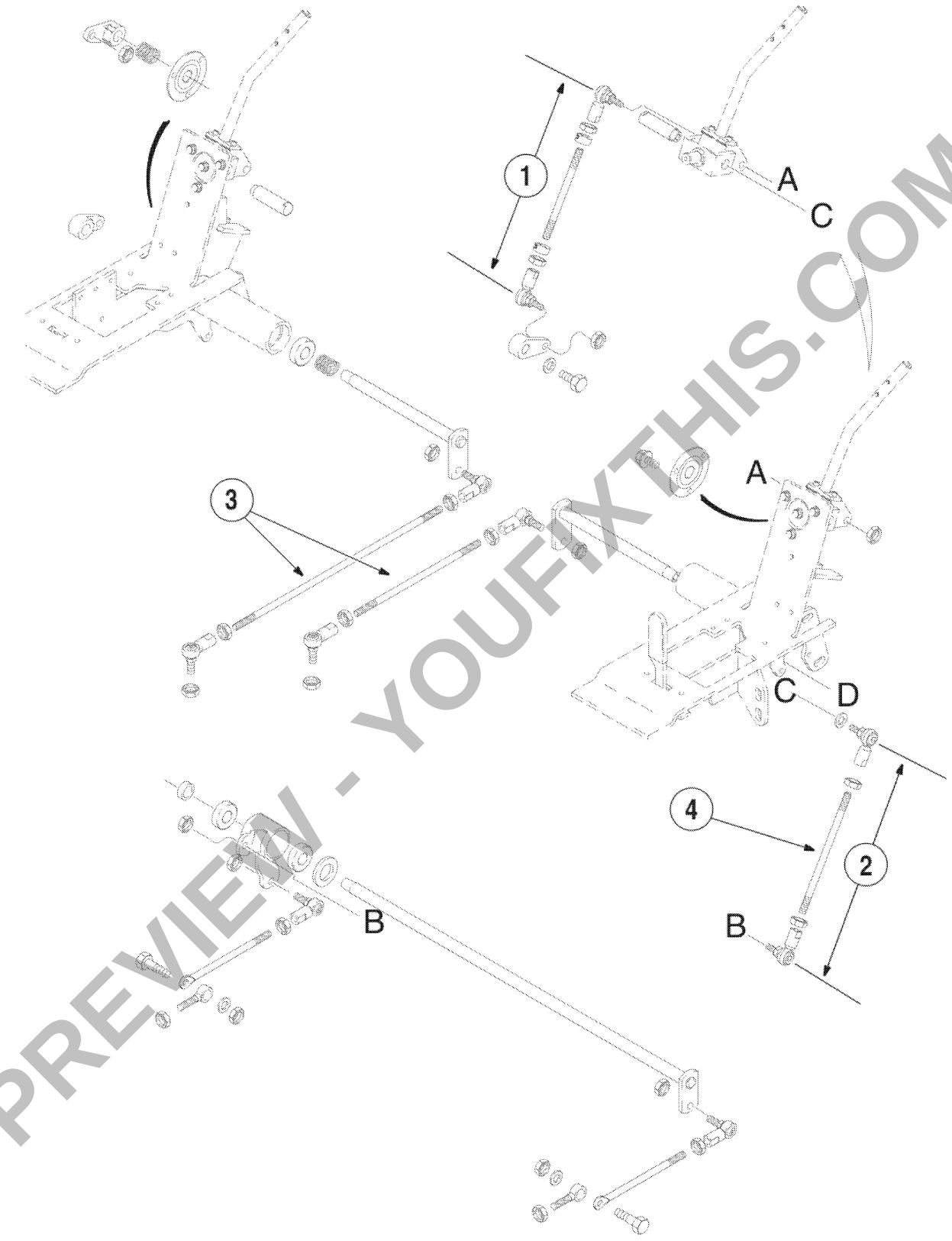
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bt98n173 1

450 Loader Lift Cylinder		
(1) Tube	**(7)** Gland	**(13)** Piston Seal
(2) Bushing	**(8)** Piston	**(14)** Gasket

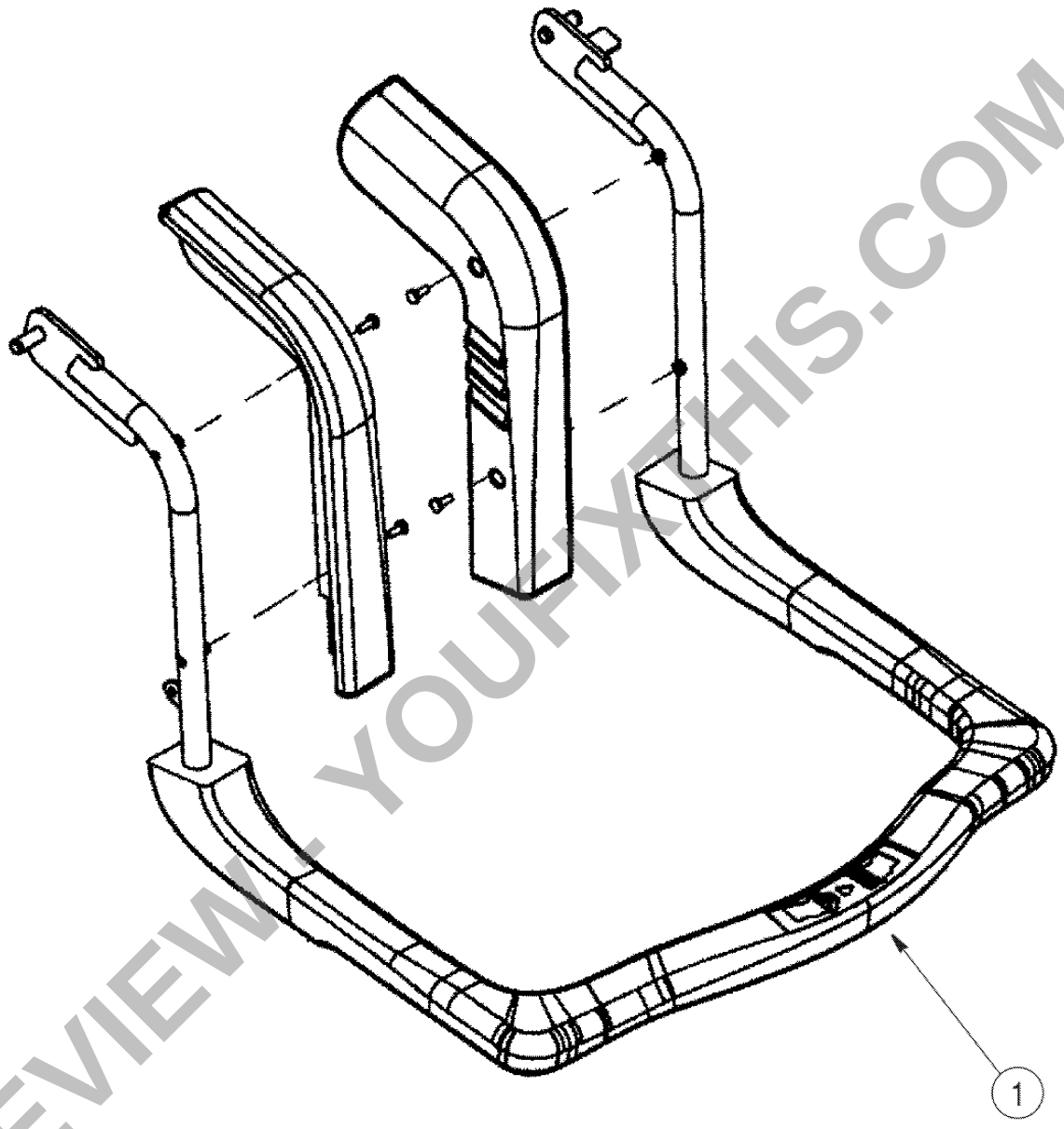
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BS07M576-01 2

SEAT BAR
(1) Seat Bar

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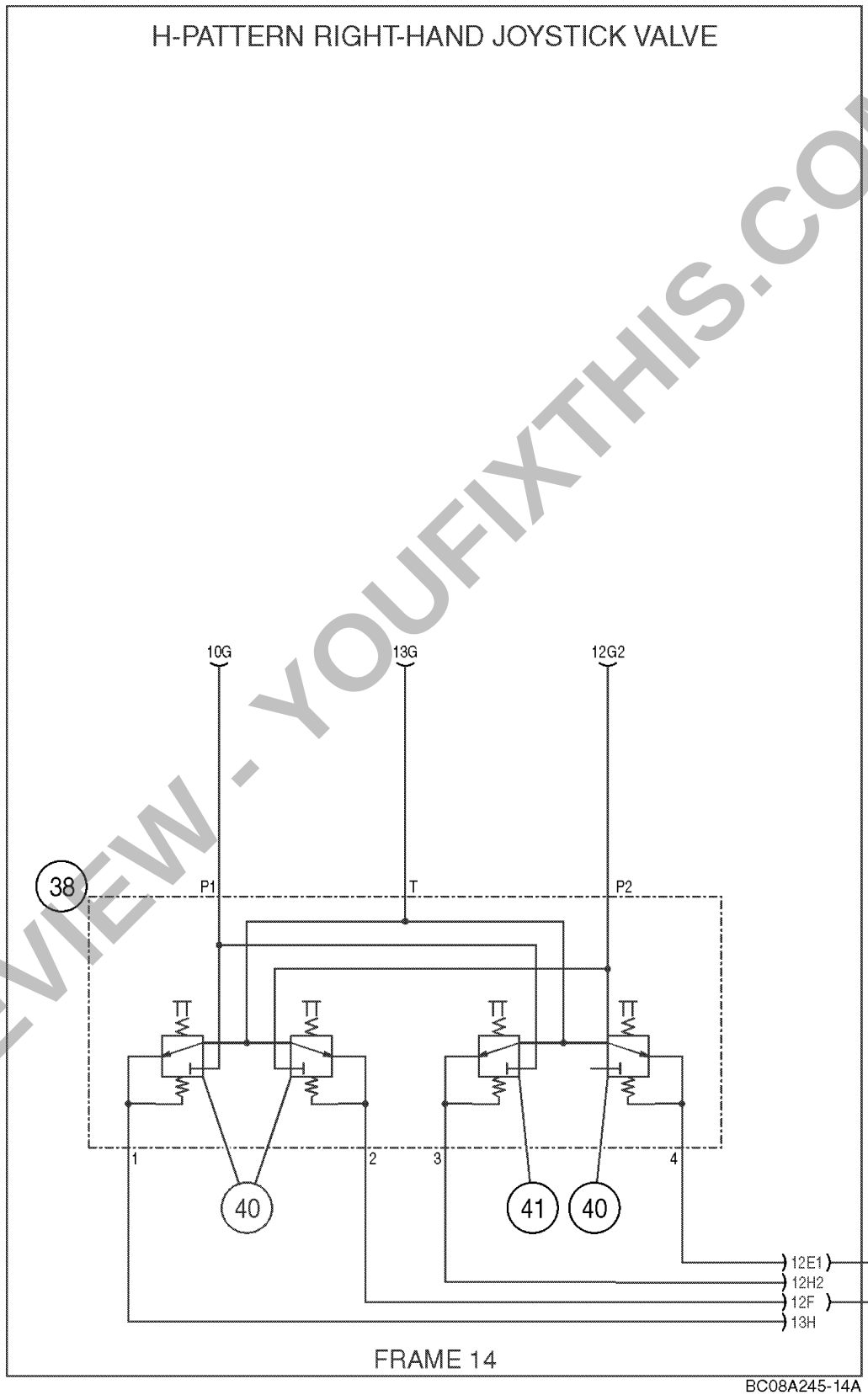
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PRIMARY HYDRAULIC POWER SYSTEM - Hydraulic schematic frame 14 (H-Pattern Pilot Controls)



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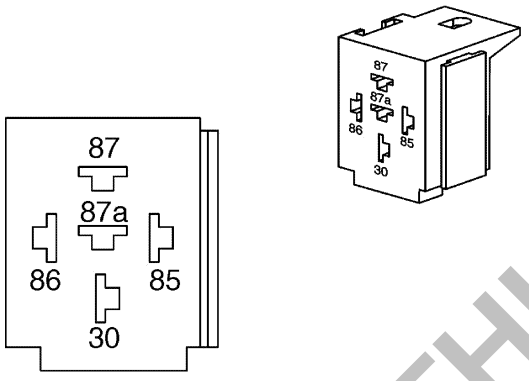
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Cavity	Circuit ID	Description
30	783G	From splice 15
85	178W	To ground
86	781C	To connector 99 pin A

Connector 96



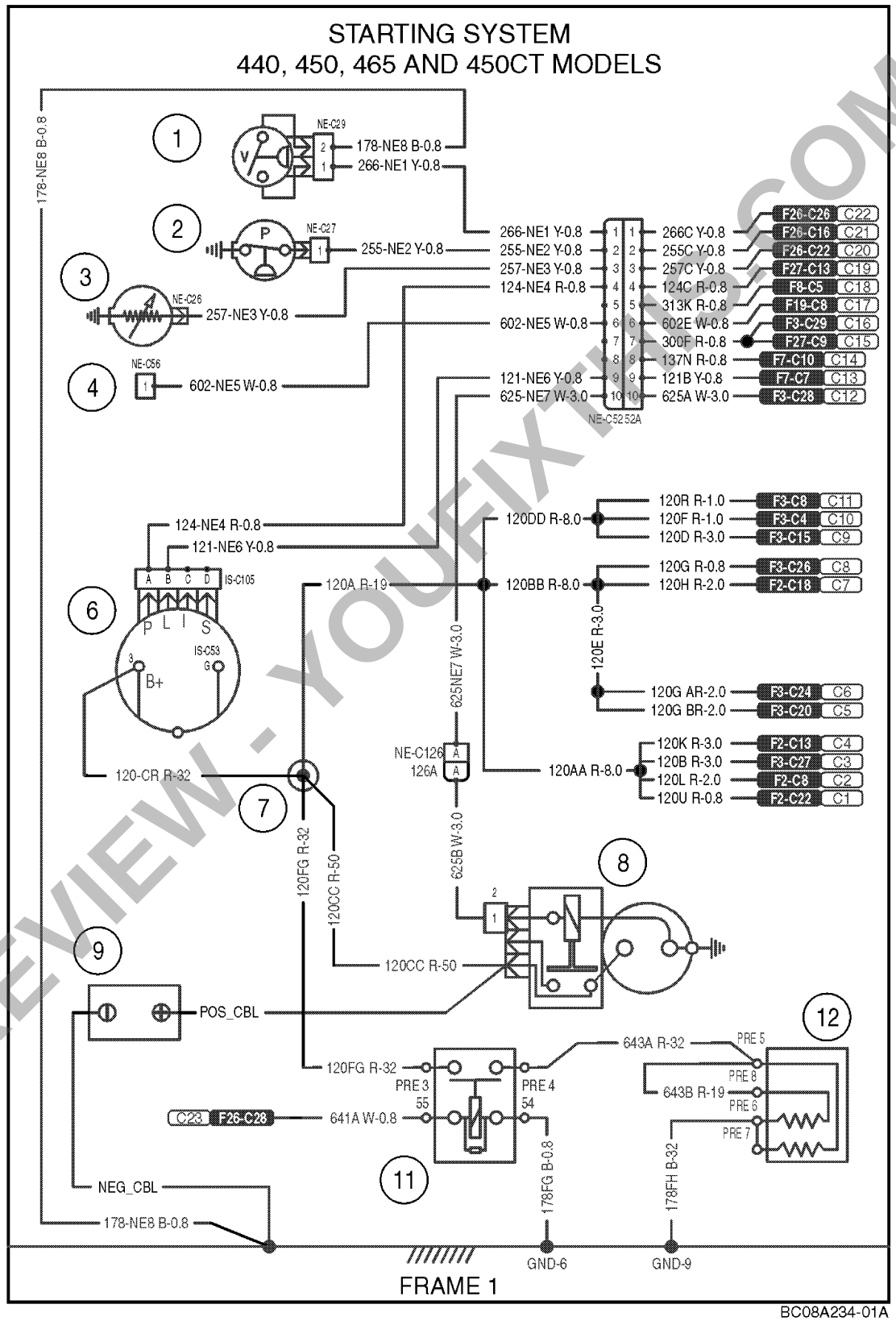
245731C1 7

Cavity	Circuit ID	Description
30	783B	From primary fuse block
85	178W	To connector 93 pin 85
87	783A	From connector 8A pin A2
86	782B	From connector 8A pin E1
86	782C	To connector 99 pin B

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Wiring harness - Electrical schematic frame 01 (Tier 3 Cab Up-Grade Machines)



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DISTRIBUTION SYSTEMS - A

LIGHTING SYSTEM - 40.A

450CT
450
465

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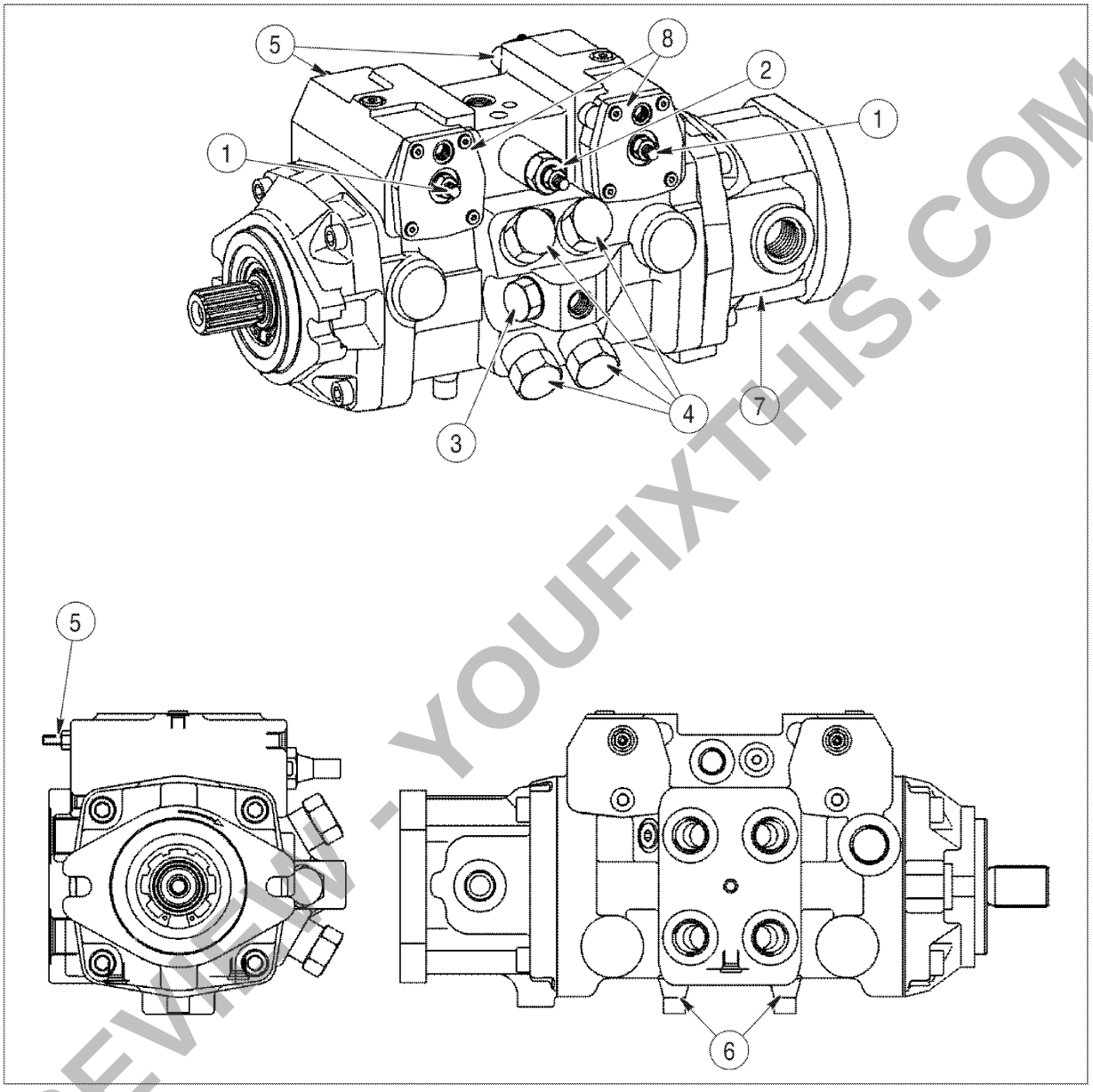
Drive plate - Torque

450 - 450CT and 465 Machines	
Bolts for Pump Drive Adapter (Apply Locktite 243 to the Threads)	**39 - 43 Nm (29 - 32 lb ft)**
Bolts for Pump Drive Gear (Apply Locktite 243 to the Threads) (Apply Adhesive 87035863 to Bolt Heads)	Torque all bolts in a cross pattern to **10 lb ft** Then turn the bolts an additional 90 degrees in a cross pattern.
Pilot Bolts for Splitter Box to Engine Mounting (Apply Locktite 243 to the Threads)	**54 - 60 Nm (40 - 45 lb ft)**
Bolts for Splitter Box Cover and Splitter Box to Engine Mounting (Apply Locktite 243 to the Threads)	Center the diameter of the 409.6 pilot within 0.25 mm TIR of the diameter 37.00 pilot on the adapter. Tighten the bolts to a torque of **54 - 60 Nm (40 - 45 lb ft)**

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Pump Left hand pump - Disassemble (Includes Left and Right Hand Pump - Machines Equipped With Pilot Controls)



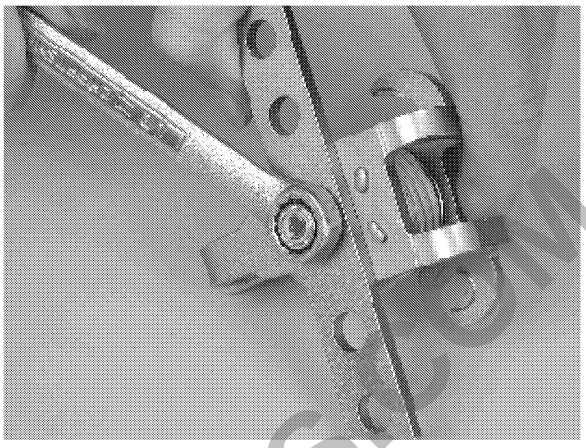
BS06J363_1 1

A20 and A22 Variable Axial Piston Pump	
1. Centering Adjustment	5. Mechanical Stroke Limiter
2. Control Cartridge	6. Timing Adjustment Screw
3. Low Pressure Valve	7. Inner Gear Pump
4. High Pressure Valve	8. Hydraulic Control

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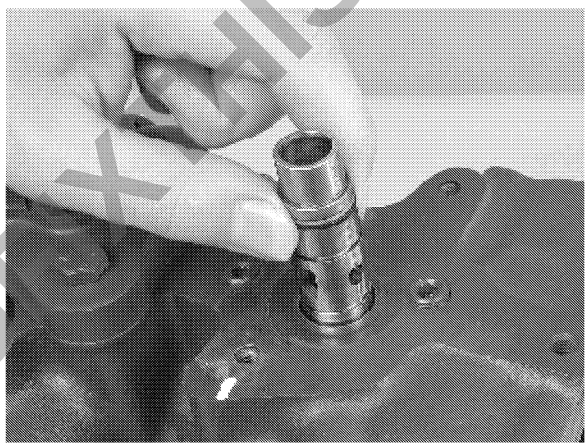
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14. Slide the washer and nut onto the protruding threads of the spool. Hold the spool assembly in place. Tighten the nut, but do not overtighten.



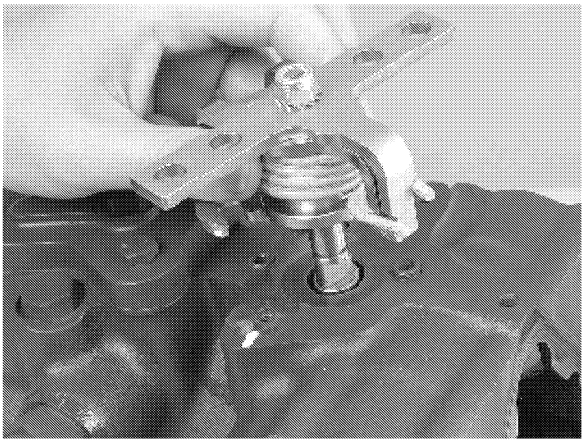
BD01H210 14

15. Lubricate the sleeve. Insert the sleeve into the housing. Ensure that the notch on the end of the sleeve is properly aligned with the notch inside housing.



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16. Lubricate the spool. Insert the spool inside the sleeve.

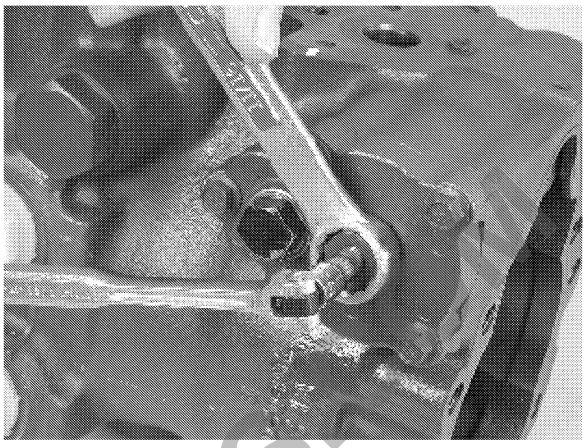


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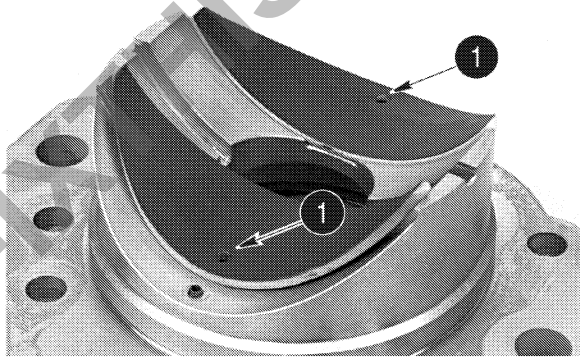
32. Hold the special bolt in place. Slide the special nut (with the sealing surface side down) onto the special bolt. Tighten the special nut, but do not overtighten.



bd01h246 32

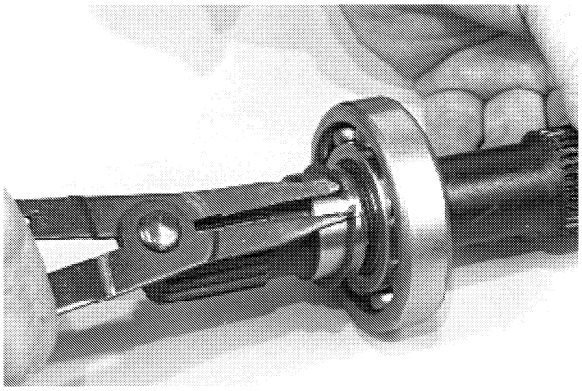
33. During disassembly, the bearings on the cover were inspected **Pump Right hand pump - Disassemble (C.20.F)**. If one of the bearings need to be replaced, align and insert the cover roll pin **(1)** into the hole of the bearing. This will ensure proper placement.

NOTE: *If a new cover is being used, install new roll pins* ***(1)*** *so the distance between the tops of the roll pins* ***(1)*** *and the face cover are* ***2.3 - 2.8 mm*** *(* ***0.090 - 0.110 in****).*



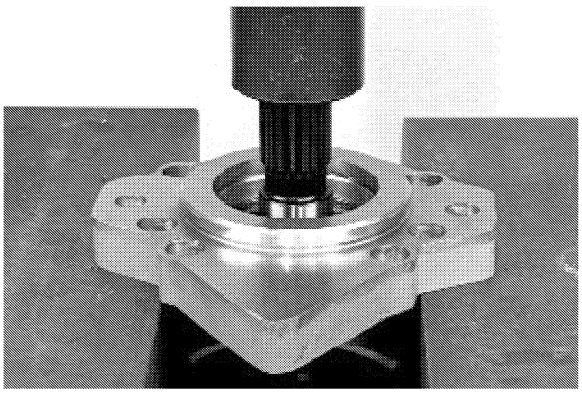
b518838_1 33

34. During disassembly, the ball bearing for the shaft was inspected **Pump Right hand pump - Disassemble (C.20.F)**. If the ball bearing for the shaft has been replaced, install one snap ring on each side of the ball bearing.



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35. Fasten the cover in a vice with soft jaws. Firmly press the ball bearing and the shaft into the cover.

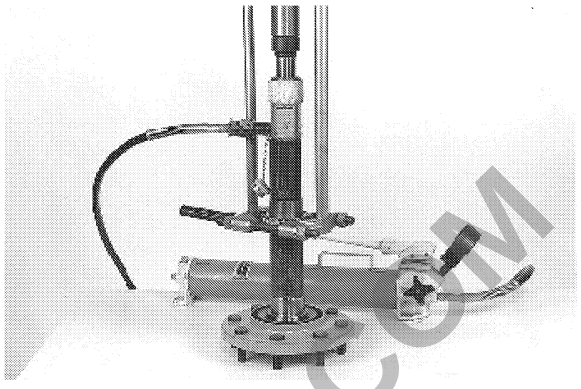


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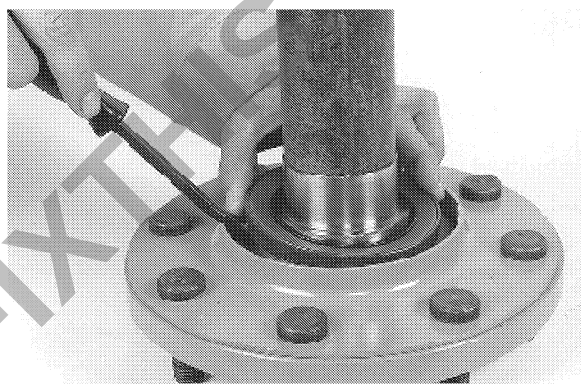
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9. Remove the outer bearing from the axle shaft.



BP96K031 9

10. Remove the outer seal from the axle shaft.



BP96K032 10

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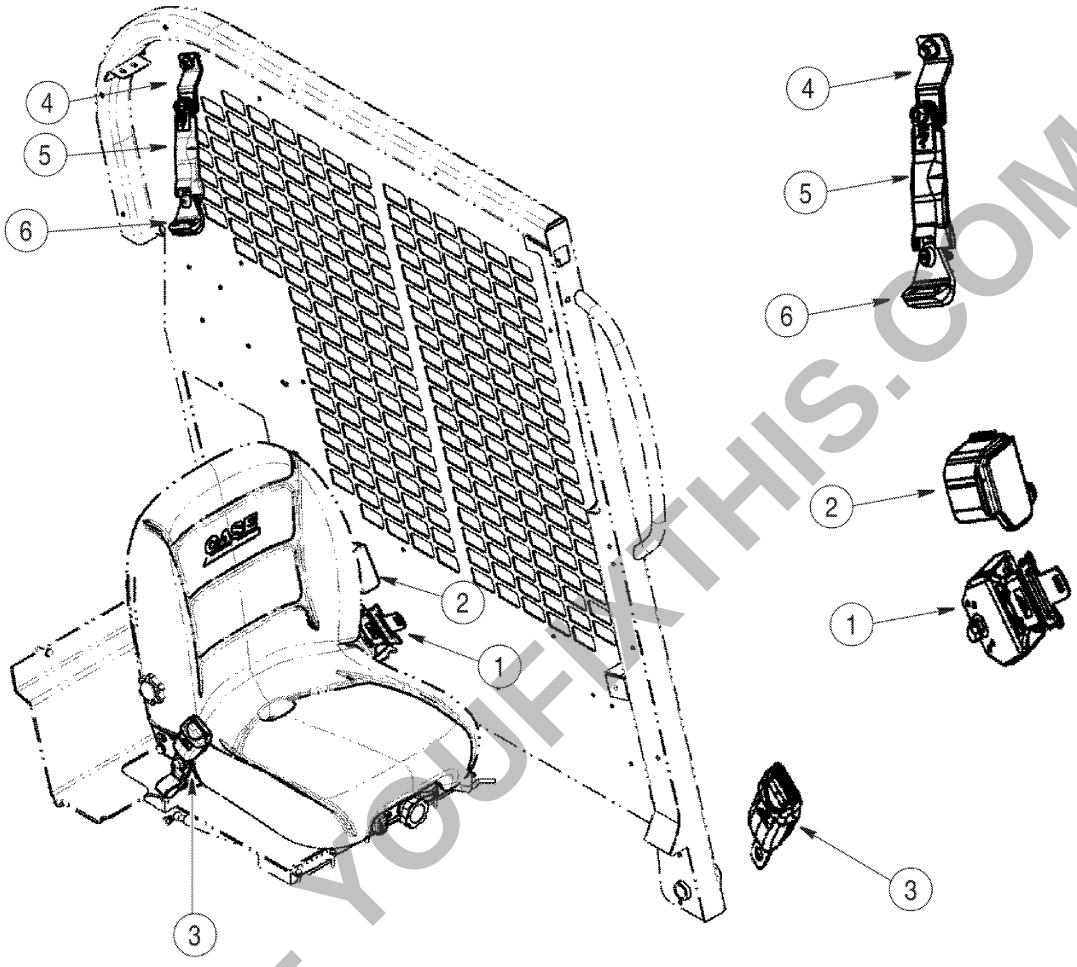
2. Use a jack or hoist to lift the machine off of the ground. Place approved jack strands under the machine. Loosen and remove the wheel nuts **(1)** and wheels.
3. Clean the area around the chain tank inspection covers. Loosen and remove each inspection cover retaining bolt and special flat washer **(6)**.
4. Remove the inspection cover and gasket. Check the gasket for damage. Replace if necessary.
5. Start the machine.
6. Push both steering control levers all the way forward for 5 seconds.
7. Stop the engine.
8. Check the deflection of the chains **(3)** on the slack side **(8)**. The slack side is on top of the front chain and on the bottom of the rear chain when traveling forward. Estimate the amount of deflection by moving the chain up and down. If deflection is more then **40 mm** (**1.5 in**) for one chain, adjust the deflection of all four chains.

NOTE: *The deflection of the chains can not be measured with accuracy.*

9. Loosen the axle housing **(9)** and mounting nuts **(2)**, so the axle is free to move.
10. Insert a pry bar against the adjusting spud and axle housing **(9)**.
11. Pry against the axle housing **(9)** until it stops moving. Tighten one or two axle mounting nuts to hold the axle housing in place and check the chain deflection **(8)**.
12. When the chain deflection **(8)** is correct, **3.0 - 12.0 mm** (**0.12 - 0.50 in**), tighten the axle mounting nuts **(2)** to a torque of **7 Nm** (**5 lb ft**).
13. Repeat the previous steps for the remaining drive chains **(3)**.
14. Following adjustment of all drive chains **(3)**, start the engine and run at low idle.
15. Move the drive control levers all the way forward for 5 seconds and stop the engine.
16. Check the deflection of all four drive chains. The drive chains **(3)** are correctly adjusted if the deflection is **3.0 - 12.0 mm** (**0.12 - 0.50 lb in**).
17. If necessary, tighten or loosen the drive chains to get the correct deflection.
18. Tighten the axle housing mounting nuts **(2)** to a torque of **223 - 2654 Nm** (**165 - 190 lb ft**).
19. Apply RTV sealant between the gasket cover and chassis and install the inspection cover.
20. Tighten the inspection cover retaining bolts to a torque of **101 - 113 Nm** (**75 - 83 lb ft**).

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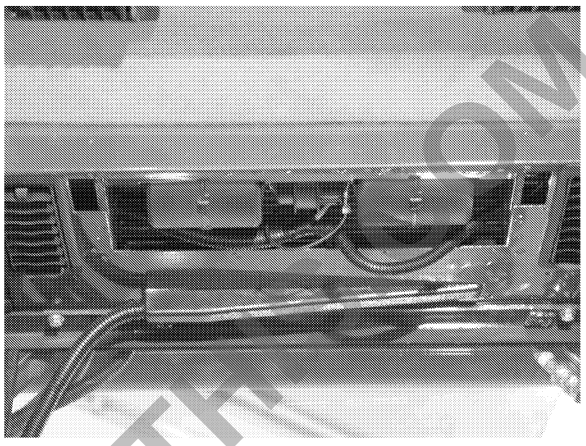
Lap and Shoulder Belt Installation	
(1) Lap Belt Retractor	**(4)** Bracket
(2) Shoulder Belt Retractor	**(5)** Sleeve
(3) Buckle	**(6)** D-Loop

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Ventilation system - Install

1. BLOWER MOTOR ASSEMBLY
   Install the blower motor assembly into the HVAC unit.
2. Install and tighten the screws which fasten the blower motor assembly to the HVAC unit.



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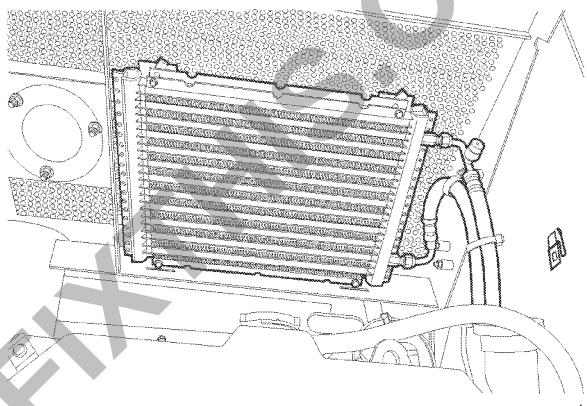
3. Connect the electrical connections to the blower motor assembly.
4. Install the cover and mounting screws onto the HVAC unit. Tighten the cover mounting screws.

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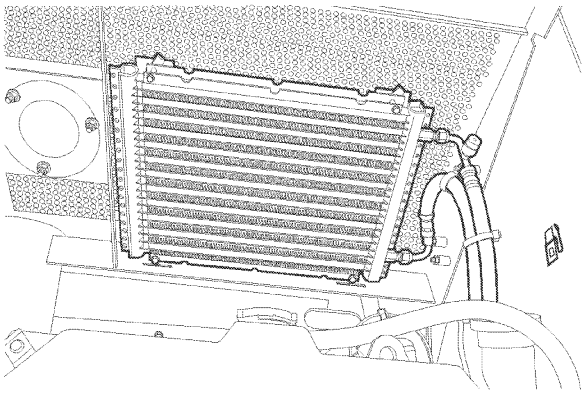
Condenser - Remove (Cab Up-Grade Machines)

1. Park the machine on a level surface and lower the loader lift arms to the floor. Apply the parking brake. Stop the engine and turn the master disconnect switch to OFF.
2. Connect the OEM-1415 Refrigerant Recovery, Recycling and Charging Station to the High and Low charge ports in the hose fittings at the compressor. Evacuate the system to remove all of the refrigerant, see **ENVIRONMENT CONTROL Air-conditioning system - Evacuate (E.40.C)**.
3. Fasten identification tags on the hose and tube to the condenser. Disconnect the hose and tube from the condenser. Remove and discard the O-rings.



BD07M326-01 1

4. Install plugs in the hose and tube. Install caps on the fittings to the condenser.
5. . Loosen and remove the four bolts and lock washers fastening the condenser core to the mounting brackets .



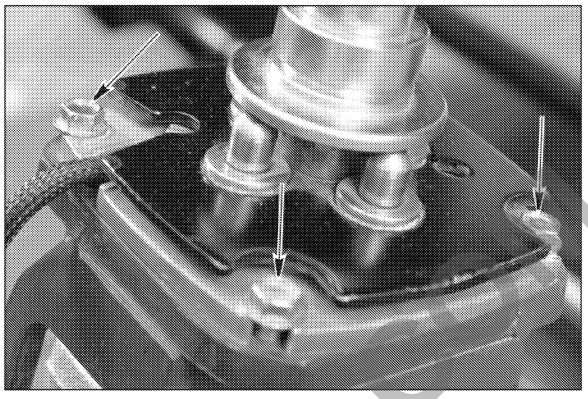
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6. Remove the condenser core.

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12. Remove the bolts securing the controller to the mount.



BD06N014_1 7

13. Remove the pilot controller.

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Control valve - Install

1. For loader control valve installation refer to the following procedure. **Control valve - Install (H.40.B)**

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