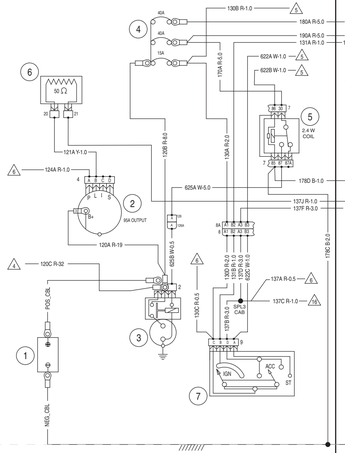
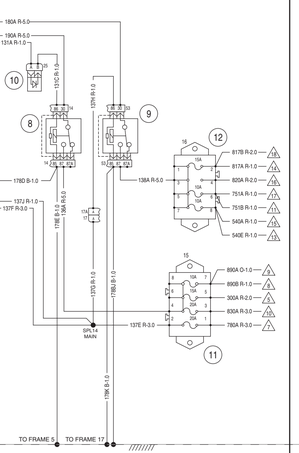
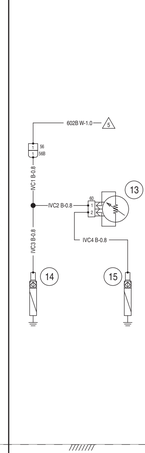
STARTING SYSTEM



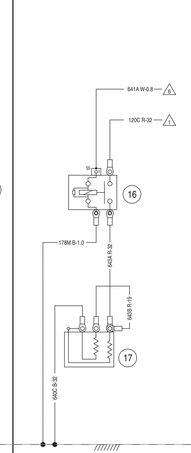
POWER DISTRIBUTION



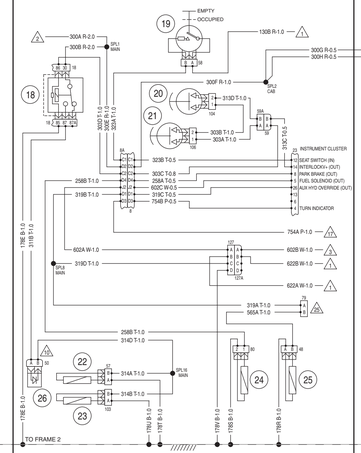
FUEL SUPPLY SYSTEM



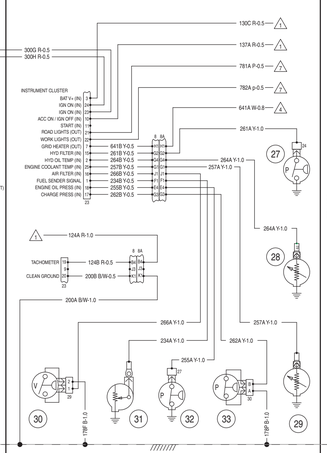
GRID HEATER SYSTEM



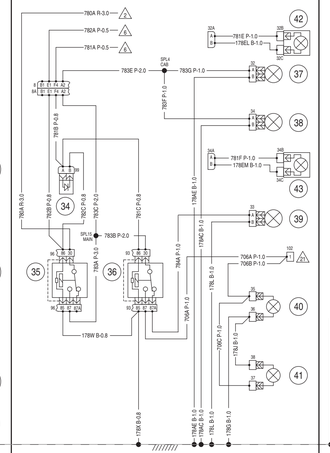
SAFETY INTERLOCK SYSTEM



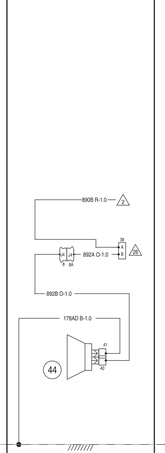
INSTRUMENT CLUSTER



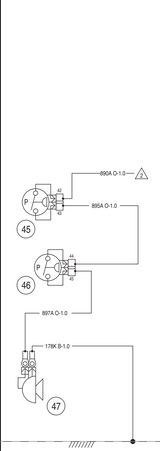
STANDARD LAMPS



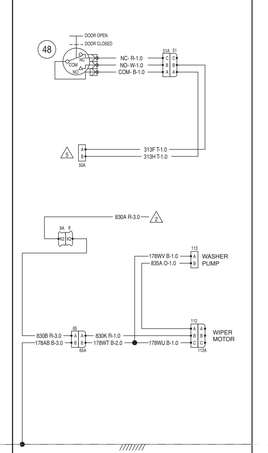
HORN (OPTIONAL)



BACK-UP ALARM (OPTIONAL)

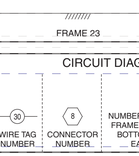


FRONT DOOR (OPTIONAL)



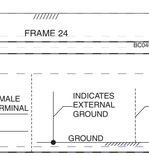
HIGH FLOW ELECTRO-HYDRAULIC ATTACHMENT FLOW (OPTIONAL)

RIDE CONTROL (OPTIONAL)



ROTATING BEACON (OPTIONAL)

ELECTRICAL ACCESSORY OUTLET (OPTIONAL)



HYDRAULIC COUPLER (OPTIONAL)

DOME LIGHT/HEATER/HVAC (OPTIONAL)

TURN SIGNALS (OPTIONAL)

LOADER ARM AUXILIARY ELECTRIC (OPTIONAL)

AUXILIARY OVERIDE SYSTEM

HAZARD SWITCH AND FLASHER HARNESS (OPTIONAL)

TURN SIGNAL LIGHTING

LOADER LOCK OUT (OPTIONAL)

FOOT HEATER (OPTIONAL)

EURO ON ROAD BRAKE LIGHTS

LEFT-HAND HANDLE (OPTIONS)

RIGHT-HAND HANDLE (OPTIONS)

PILOT HYDRAULIC CONTROL ADAPTERS (OPTIONAL)

CIRCUIT DIAGRAM LEGEND

SHOWS CIRCUIT CROSSING NOT CONNECTED

SHOWS CIRCUIT CONNECTED

54 COMPONENT NUMBER

30 WIRE TAG NUMBER

8 CONNECTOR NUMBER

NUMBERS REFER TO THE FRAME NUMBER AT THE BOTTOM CENTER OF EACH FRAME.

MALE TERMINAL

FEMALE TERMINAL

INDICATES EXTERNAL GROUND

GROUND

INDICATES INTERNALLY GROUNDED COMPONENT

WIRE IDENTIFICATION

702A P-1.0

WIRE NUMBER

WIRE COLOR

WIRE SIZE

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

NOTES

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

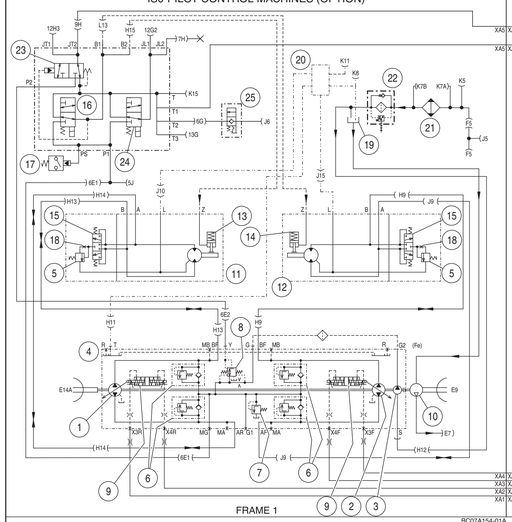
ELECTRICAL SCHEMATIC
450, 465 SKID STEER and 450CT TRACK LOADER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System.
The part number is 5-5360

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BC07A153-00A

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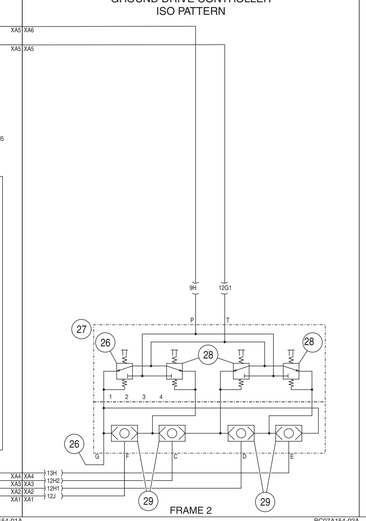
IS0-PILOT CONTROL MACHINES (OPTION)



FRAME 1

BC07A154-01A

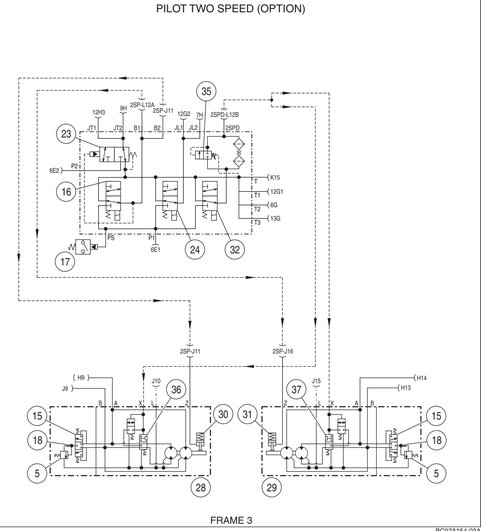
GROUND DRIVE CONTROLLER ISO PATTERN



FRAME 2

BC07A154-02A

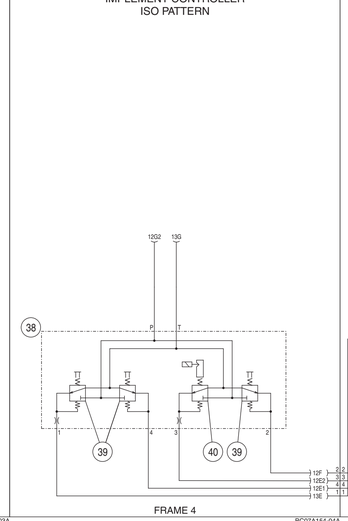
PILOT TWO SPEED (OPTION)



FRAME 3

BC07A154-03A

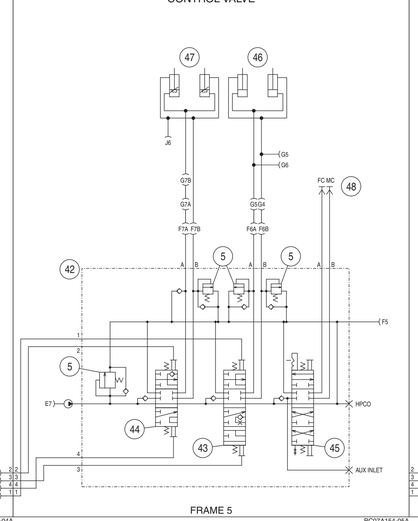
IMPLEMENT CONTROLLER ISO PATTERN



FRAME 4

BC07A154-04A

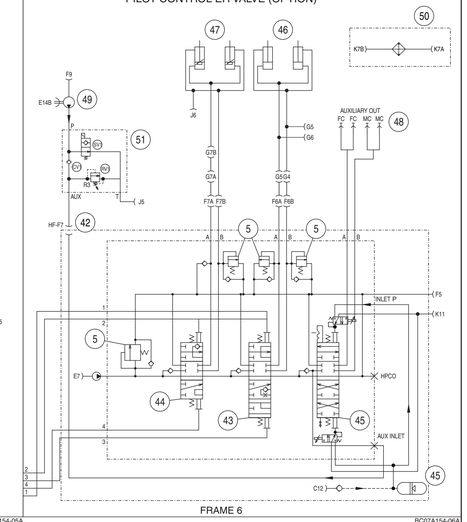
CONTROL VALVE



FRAME 5

BC07A154-05A

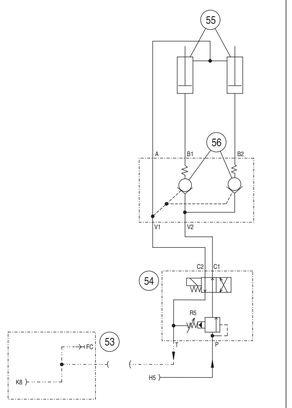
PILOT CONTROL EH VALVE (OPTION)



FRAME 6

BC07A154-06A

HYDRAULIC COUPLER (OPTION)



FRAME 7

BC07A154-07A

SECONDARY AUXILIARY (OPTION)



FRAME 8

BC07A154-08A

SELF-LEVEL (OPTION)

FRAME 9

BC07A154-09A

RIDE CONTROL (OPTION)

FRAME 10

BC07A154-10A

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COMPONENTS - PILOT CONTROL MACHINES

FRAME - COMPONENT NUMBERS

FRAME 7 COMPONENTS
1 - 1. Left Piston Pump
1 - 2. Right Piston Pump
1 - 3. Charge Pump
1 - 4. Hydrostatic Pump
1 - 5. Circuit Relief Valve
1 - 6. High Pressure Relief Valve
1 - 7. Control Cartridge
1 - 8. Boost Valve
1 - 9. Servo Piston
1 - 10. Hydraulic Pump
1 - 11. Left Drive Motor
1 - 12. Right Drive Motor
1 - 13. Left Brake
1 - 14. Right Brake
1 - 15. Flushing Valve
1 - 16. Brake Solenoid Valve
1 - 17. Charge Pressure Switch
1 - 18. Shut-Off Plug
1 - 19. Hydraulic Reservoir
1 - 20. Drain Manifold
1 - 21. Oil Cooler
1 - 22. Oil Filter Bypass Valve
1 - 23. Ground Drive Interlock
1 - 24. Loader Interlock
1 - 25. Manual Boom Lowering Valve

FRAME 2 COMPONENTS
2 - 26. Backup Alarm Port
2 - 27. Ground Drive Controller
2 - 28. Ground Drive Controller Spool
2 - 29. Resolver Block Shuttle Valve

FRAME - COMPONENT NUMBERS

FRAME 3 COMPONENTS
3 - 5. Circuit Relief Valve
3 - 15. Flushing Valve
3 - 16. Brake Solenoid Valve
3 - 17. Charge Pressure Switch
3 - 18. Shut-off Plug
3 - 23. Ground Drive Interlock
3 - 24. Loader Interlock
3 - 28. Left Two Speed Drive Motor
3 - 29. Right Two Speed Drive Motor
3 - 30. Left Brake
3 - 31. Right Brake
3 - 32. Two Speed Valve
3 - 35. Two Speed Solenoid Valve
3 - 36. Left Two Speed Shuttle Valve
3 - 37. Right Two Speed Shuttle Valve

FRAME 4 COMPONENTS
4 - 38. Implement Controller
4 - 39. Implement Controller Spool
4 - 40. Implement Controller Spool with Magnetic Detent

FRAME 5 COMPONENTS
5 - 5. Circuit Relief Valve
5 - 42. Loader Control Valve
5 - 43. Tilt Spool
5 - 44. Lift Spool
5 - 45. Auxiliary Spool
5 - 46. Tilt Cylinders
5 - 47. Lift Cylinders
5 - 48. Auxiliary Outlets

FRAME - COMPONENT NUMBERS

FRAME 6 COMPONENTS
6 - 5. Circuit Relief Valve
6 - 42. Loader Control Valve
6 - 43. Tilt Spool
6 - 44. Lift Spool
6 - 45. Auxiliary Spool
6 46. Tilt Cylinders
6 - 47. Lift Cylinders
6 - 48. Auxiliary Outlets
6 - 49. High Flow Pump
6 - 50. High Flow Filter
6 - 51. High Flow Control Valve
6 52. Accumulator

FRAME 7 COMPONENTS
7 - 53. Attachment Case Drain
7 - 54. Hydraulic Coupler Control Valve
7 - 55. Hydraulic Coupler Cylinder
7 - 56. Check Valve

FRAME 8 COMPONENTS
8 - 57. Secondary Auxiliary Control Valve

FRAME 9 COMPONENTS
9 - 58. Self-Level Valve

FRAME 10 COMPONENTS
10 - 59. Ride Control Valve
10 - 60. Ride Control Accumulator

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

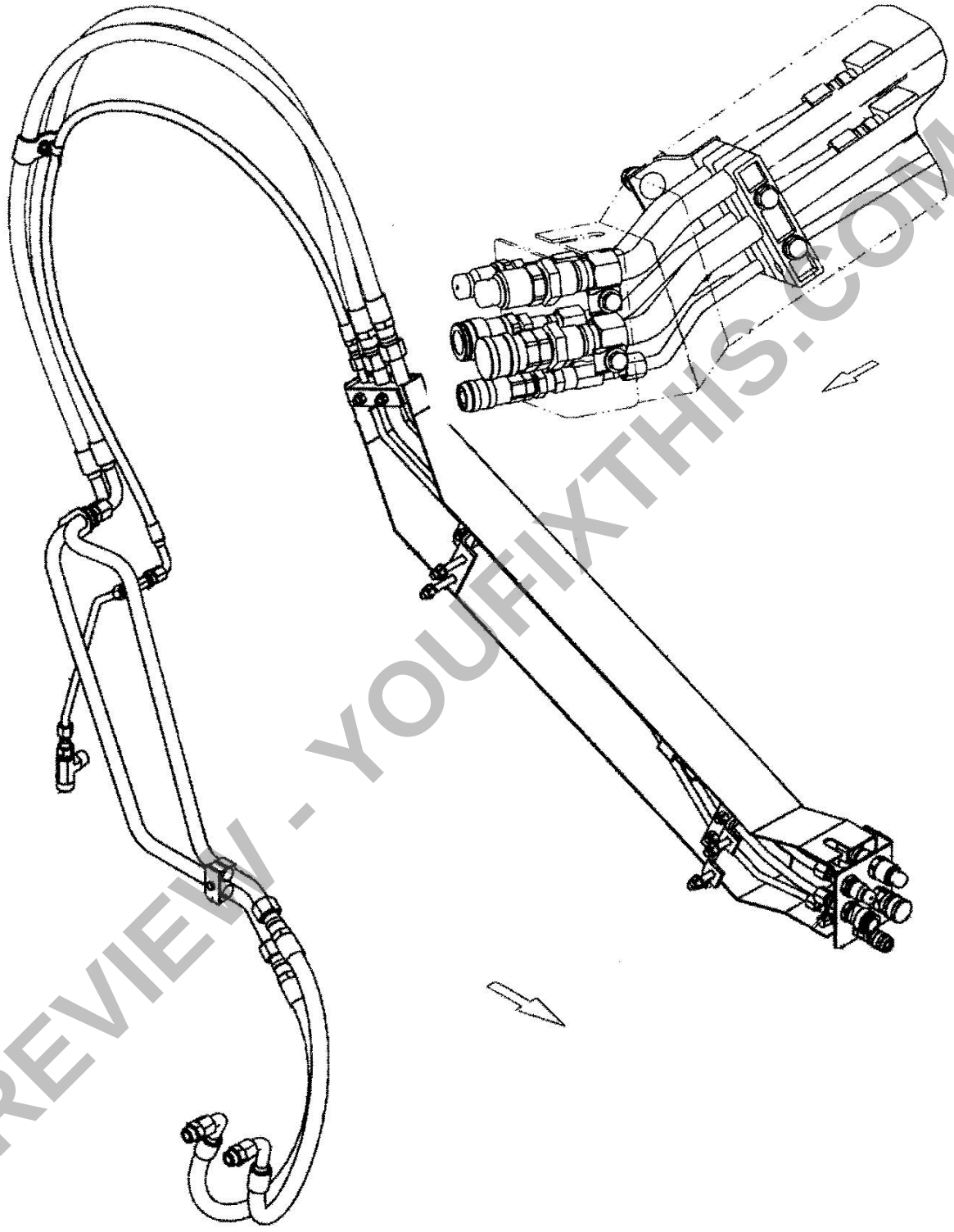
NOTES

HYDRAULIC SCHEMATIC
ISO-PATTERN PILOT CONTROL MACHINES (OPTION)
450, 465 SKID STEER and 450CT TRACK LOADER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System.
The part number is 5-5360

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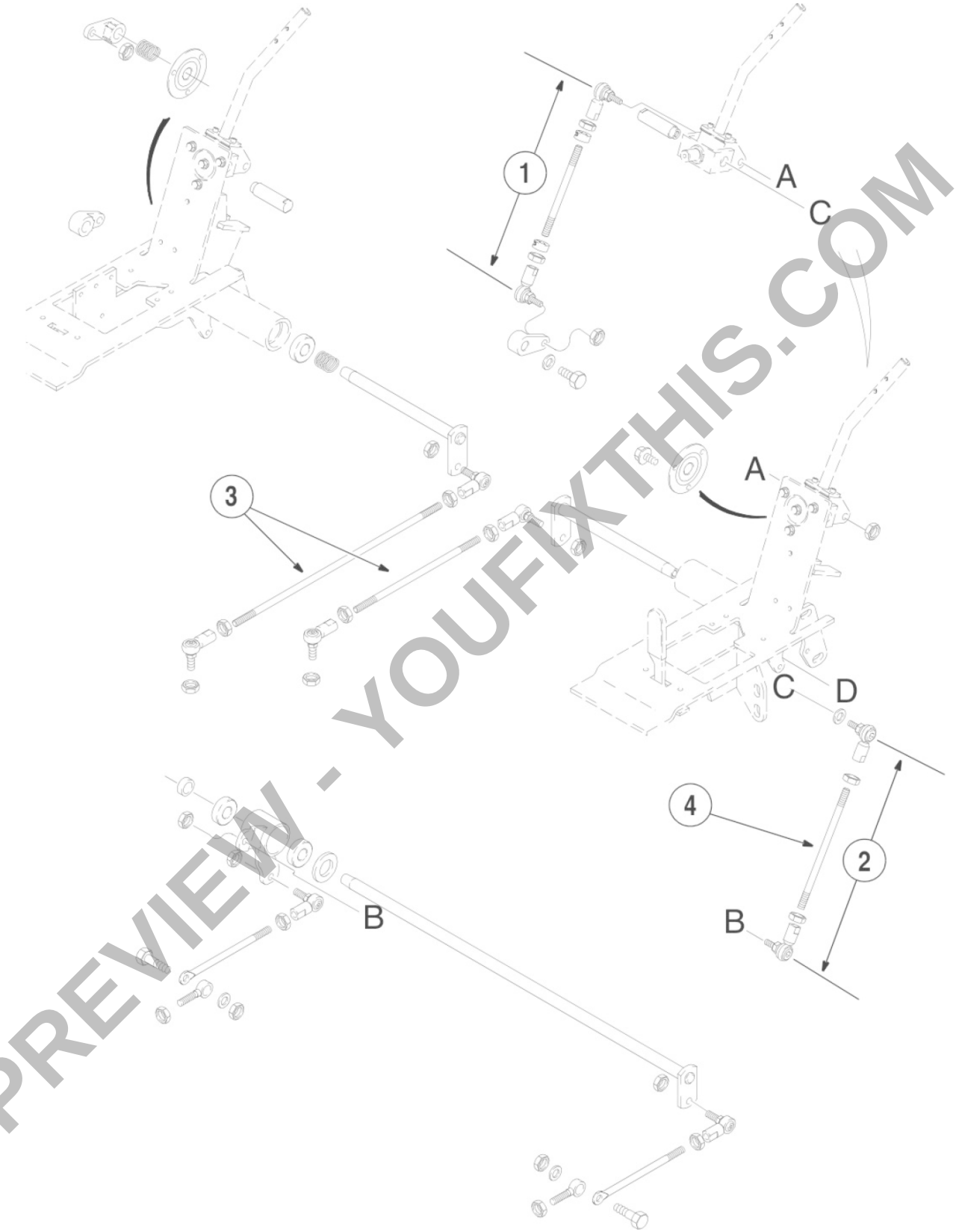
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WHEELS AND TRACKS Wheels - Capacity

450, 465

Chain Compartments	
Capacity - Each Side	**7.6 L** (**8.0 US qt**)

WHEELS AND TRACKS Wheels - General specification

450, 465

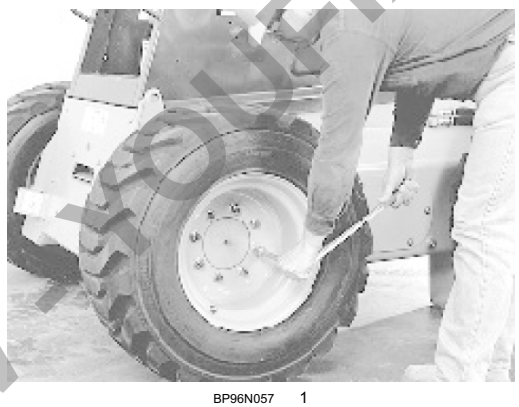
Chain Compartments	
Specifications	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**

WHEELS AND TRACKS Wheels - Torque

450, 465

If the machine is new or if the wheels have just been installed, check the wheel nuts every 2 hours. Continue to check the wheel nuts every 2 hours until they remain tight.

Tapered type lug nuts are used on stamped center wheels. If the machine is equipped with stamped center wheels, tighten each tapered type lug nut to the torque of **135 - 163 Nm** (**100 - 120 lb ft**).
Flange type lugs nuts are used on solid center wheels. If the machine is equipped with solid center wheels tighten each flange type lug nut to a torque of **224 - 265 Nm** (**165 - 195 lb ft**).



BP96N057 1

NOTE: *When the tires are installed, make sure that the tread is in the same direction. See the photo above.*

WHEELS AND TRACKS Wheels - Tire pressure

450, 465

Check the air pressure and the condition of the tires every 50 hours of operation.

10 x 16.5	**275 - 344 kPa** (**40 - 50 psi**)
12 x 16.5	**241 - 310 kPa** (**35 - 45 psi**)
13 x 16.5	**206 - 275 kPa** (**30 - 40 psi**)
15.50 x 16.5	**172 - 341 kPa** (**25 - 35 psi**)

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Motor - General specification

450, 465

Hydrostatic Drive Motors	
Manufacturer	Rexroth
Type	Radial Piston
Model	MCR05
Displacement (Maximum)	750 cc (45.8 in³)
Displacement (Minimum)	410 cc (25.02 in³)
Speed at Rated Engine RPM at Motor Maximum Displacement 450 and 465 Machines	180 RPM
Torque At Maximum Displacement and Pressure 450 and 465 Machines	3705 Nm 2733 ft/lbs

Motor - General specification

450CT

450CT Hydrostatic Final Drive Motors	
Manufacturer	Rexroth
Type	Radial Piston
Model	GRM8 (with 3.66:1 reduction)
Maximum Displacement	365 cc (22.3 in³)
Minimum Displacement	255 cc (15.6 in³)
Motor Planetary Reduction	3.7:1
Motor Speed at Rated Engine RPM at Motor Maximum (100% VE) Displacement	350 RPM
Motor Speed at Rated Engine RPM at Motor Minimum Displacement	500 RPM
Motor Torque Maximum Displacement and Relief Pressure	**2004 Nm (1478 lb ft)**
Motor Torque Minimum Displacement and Relief Pressure	**1403 Nm (1035 lb ft)**
Sprocket Hub Speed at Rated Engine RPM at Motor Maximum (100% VE) Displacement	96 RPM
Sprocket Hub Speed at Rated Engine RPM at Motor Minimum Displacement	148 RPM
Sprocket Hub Torque Maximum Displacement and Relief Pressure	**7334 Nm (5410 lb ft)**
Shuttle Valve	Yes
Shuttle Oil Flow (Per Motor)	**7.6 L/min (2.0 US gpm)**

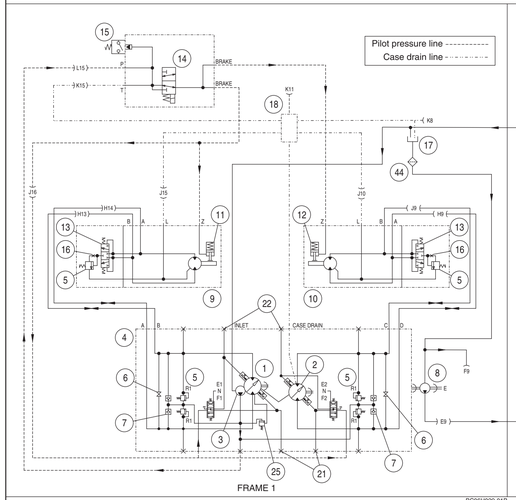
Motor - Torque

450, 465

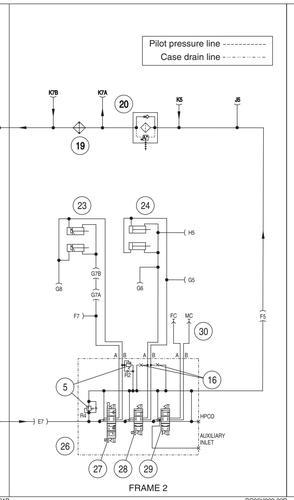
Drive Motor/Brake Assembly Mounting Bolts	**122 - Nm (90 - lb ft) plus turn 60 degress -**

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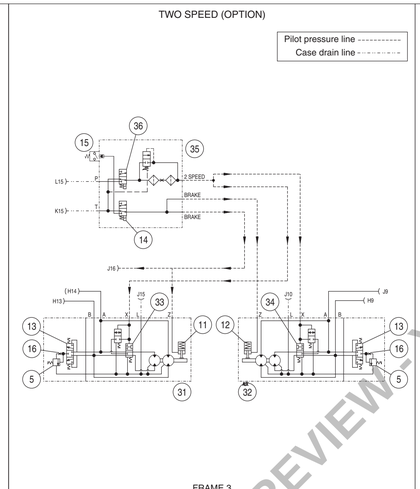


BC06H029-01B



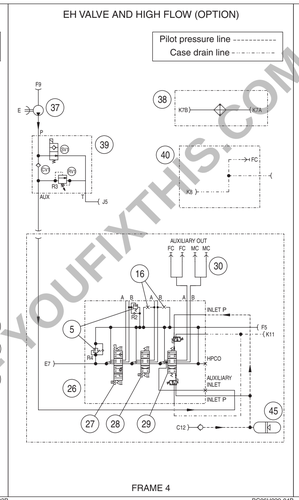
BC06H029-02B

TWO SPEED (OPTION)



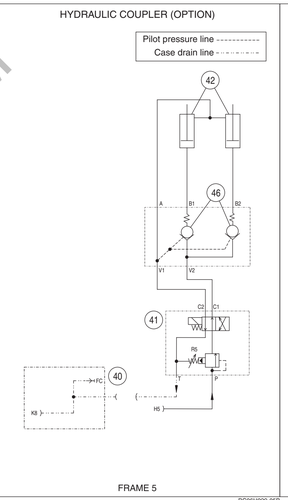
BC06H029-03B

EH VALVE AND HIGH FLOW (OPTION)



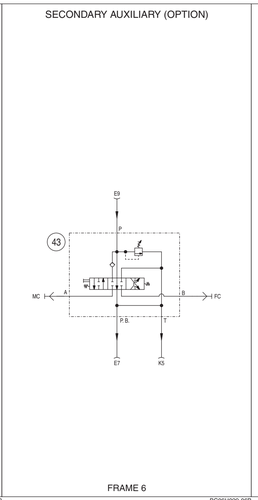
BC06H029-04B

HYDRAULIC COUPLER (OPTION)



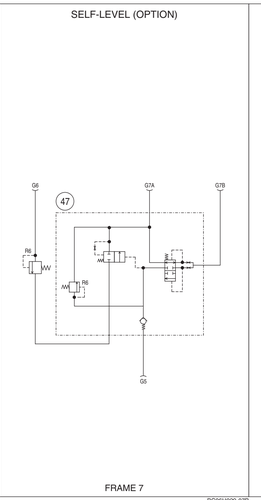
BC06H029-05B

SECONDARY AUXILIARY (OPTION)



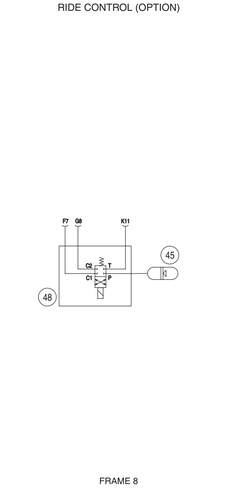
BC06H029-06B

SELF-LEVEL (OPTION)



BC06H029-07B

RIDE CONTROL (OPTION)



BC06H029-08B

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
- LINE TYPES: PRESSURE; CASE DRAIN; COMPONENT; PILOT PRESSURE

NOTES

HYDRAULIC SCHEMATIC
MACHINES EQUIPPED WITH TANDEM HYDROSTATIC PUMP
450, 450CT, AND 465 SKID STEER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System.
The part number is 5-5360

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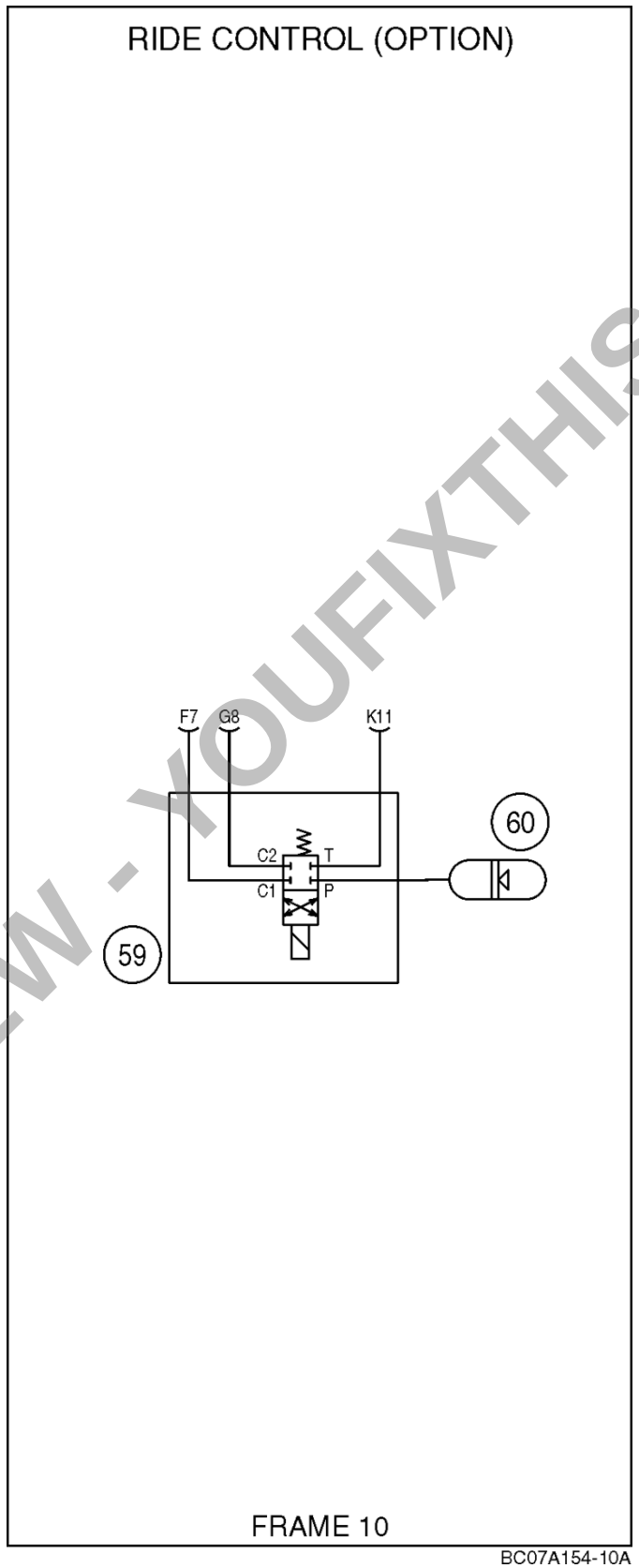
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INTRODUCTION

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PRIMARY HYDRAULIC POWER SYSTEM - Hydraulic schematic frame 10 (ISO-Pattern Pilot Controls)



BC07A154-10A

BC07A154-10A 1

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Reservoir - Filling

1. Lower the loader lift arms to the ground and shut off the engine.
2. Clean the reservoir filler cap and the area around the filler cap with cleaning solvent.
3. Turn the filler cap 1/2 turn to relieve air pressure from the reservoir. Do not remove the filler cap from the reservoir until the pressure is relieved.
4. Remove the filler cap from the reservoir.
5. Add the correct oil **CASE AKCELA AUTO SUPREME SAE 10W-30** to the reservoir until the proper oil level in the reservoir is established. Fill the reservoir until the oil level is at the mid point of the site gauge.
6. Start and run the engine and operate the hydraulics. Lower the loader lift arms to the ground. Stop the engine and check the oil level in the reservoir. Add oil as required.

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Battery - General specification

Charging Guide For Maintenance Free Batteries - Recommended Rate* and Time for Fully Discharged Battery	
Battery Capacity - See Reserve Capacity under Specifications	**Charge**
80 Minutes or Less	10 Hours at 5 Amperes 5 Hours at 10 Amperes
Above 80 to 125 Minutes	15 Hours at 5 Amperes 7.5 Hours at 10 Amperes
Above 125 to 170 Minutes	20 Hours at 5 Amperes 10 Hours at 10 Amperes
Above 170 to 250 Minutes	30 Hours at 5 Amperes 15 Hours at 10 Amperes
*Initial rate for standard taper charger.	

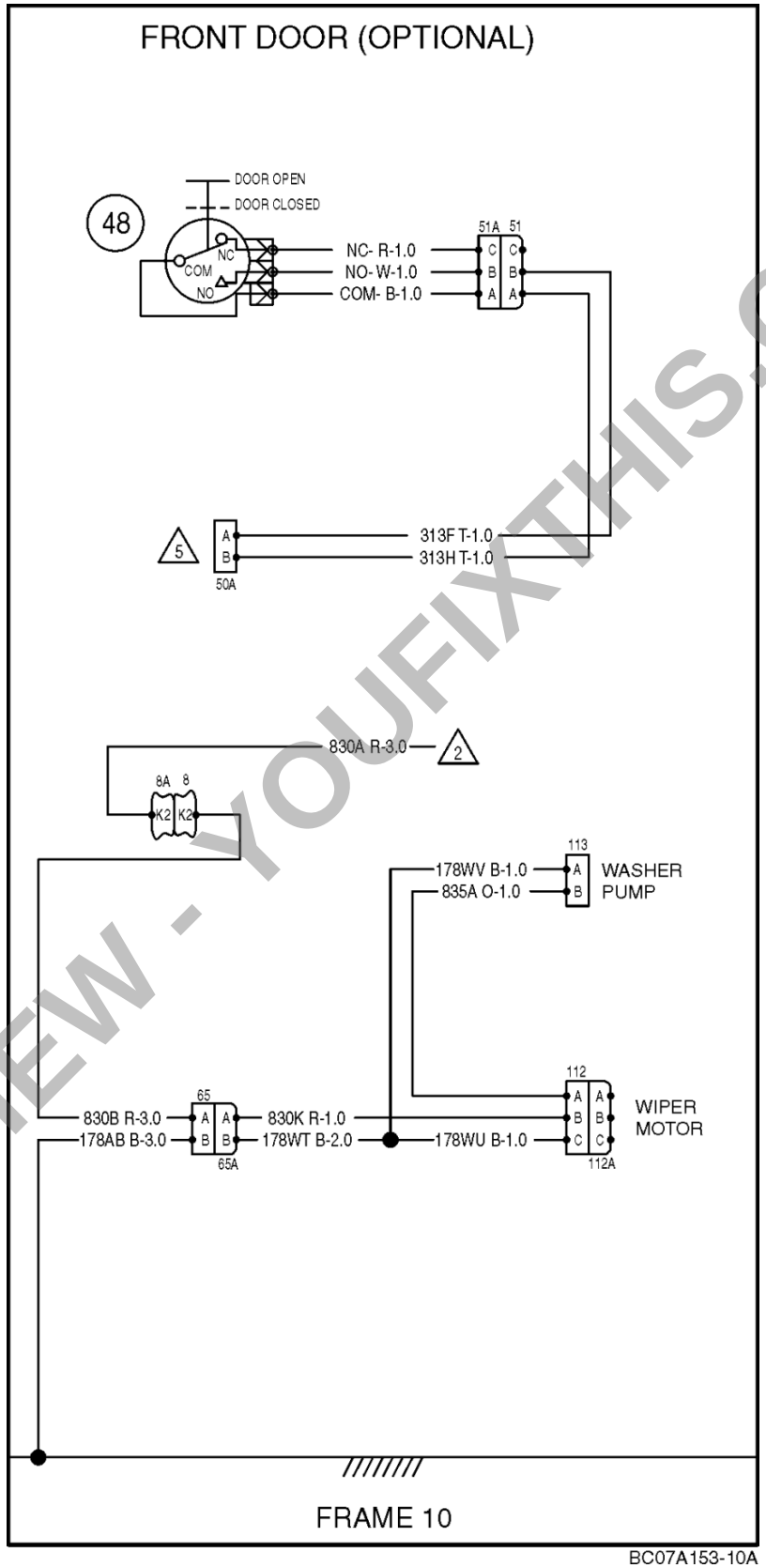
NOTE: *A maintenance free battery will have the words Maintenance Free on the decal on the top of the battery. If the center part of the decal has been removed to get access to the battery caps, it is possible the words Maintenance Free will have been removed from the decal.*

Charging Guide For Batteries Other Than Maintenance Free Batteries - Recommended Rate* and Time for Fully Discharged Battery	
Battery Capacity - See Reserve Capacity under Specifications	**Charge**
80 Minutes or Less	10 Hours at 5 Amperes 5 Hours at 10 Amperes
Above 80 to 125 Minutes	15 Hours at 5 Amperes 7.5 Hours at 10 Amperes
Above 125 to 170 Minutes	20 Hours at 5 Amperes 10 Hours at 10 Amperes
Above 170 to 250 Minutes	30 Hours at 5 Amperes 15 Hours at 10 Amperes
Above 250 Minutes	24 Hours at 10 Amperes
*Initial rate for standard taper charger.	

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Wiring harness - Electrical schematic frame 10



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(48) Cab Door Switch

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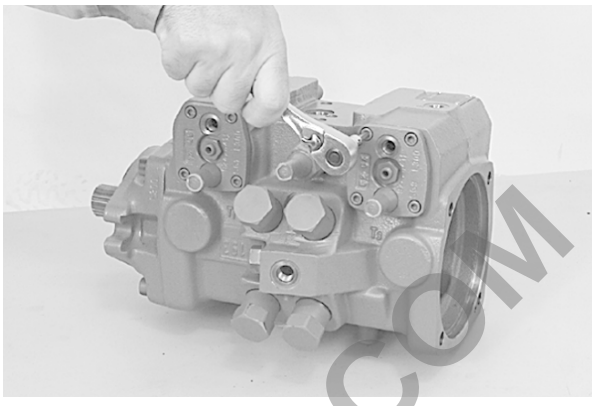
7/16 inch Special bolts for cover	**81 - 100 Nm** (**60 - 74 lb ft**)
Tandem Pump Mounting Bolts	Tighten the 4 pump flange to engine adapter bolts to a torque of **122 Nm** (**90 lb ft**). Tighten the 2 lower pump support bracket to engine adapter bolts to a torque of **4 Nm** (**35 lb in**). Use a soft faced hammer and tap the pump support bracket until it contacts the pump mounting surface. Tighten the 2 upper pump support bracket to engine adapter bolts to a torque of **122 Nm** (**90 lb ft**). Tighten the 2 lower pump support bracket to the engine adapter bolts to a torque of **95 Nm** (**70 lb ft**). Tighten the pump support to tandem pump bolts to a torque of **122 Nm** (**90 lb ft**).

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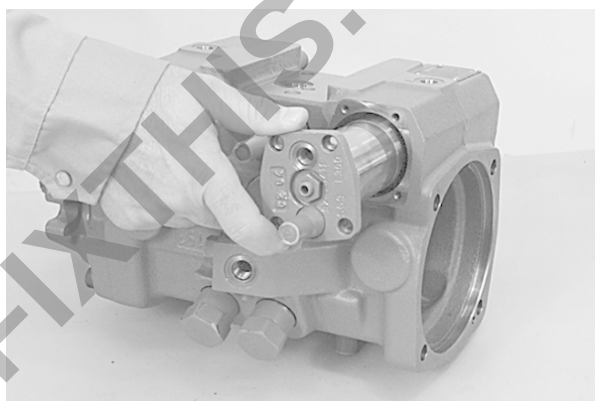
50. Use acceptable tools and remove the hydraulic control mount bolts.

IMPORTANT: *If hydraulic control cover plate is rotated, it may affect the neutral setting of the hydraulic control piston.*



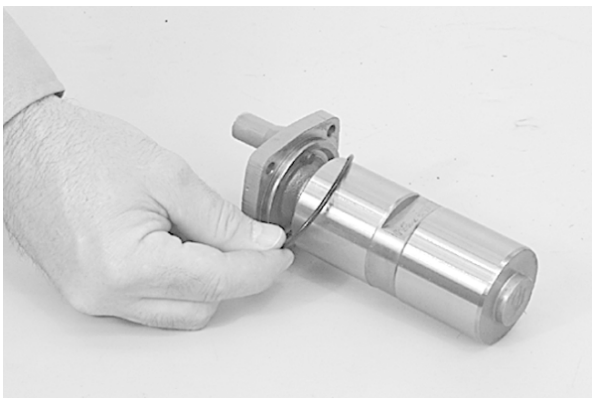
BD06J028 49

51. Remove the hydraulic control piston.



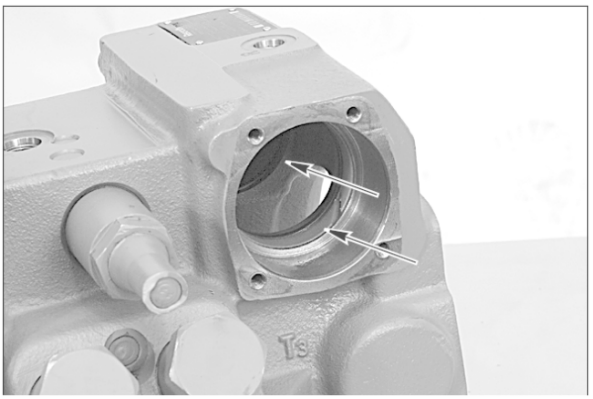
BD06J031 50

52. Remove and inspect the O-ring. Replace O-ring as required.



BD06J034 51

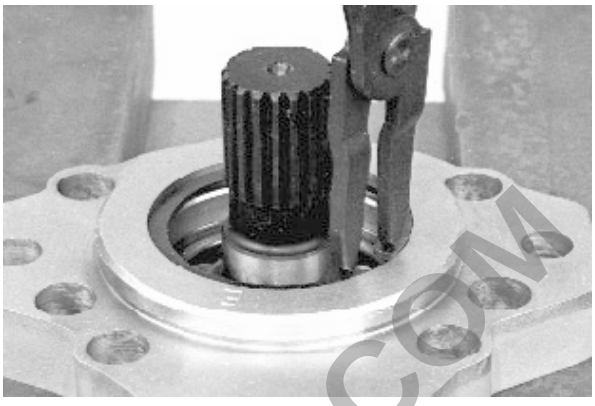
53. Remove and inspect the guide rings (2 each). Replace as required.



BD06J033_1 52

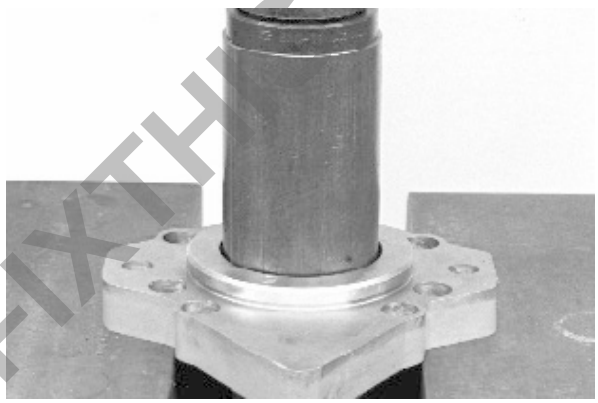
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36. Install the snap ring into the groove, just above the ball bearing.



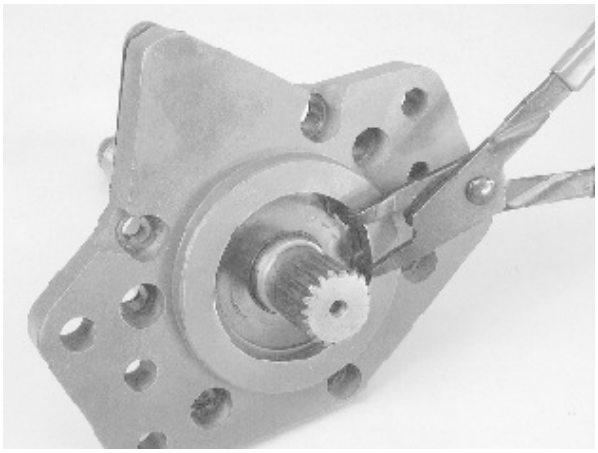
B518944 36

37. Lubricate the lip of the seal with clean oil. Carefully press the new seal with the lip down, into the cover.



B518904 37

38. Install the snap ring into the seal.



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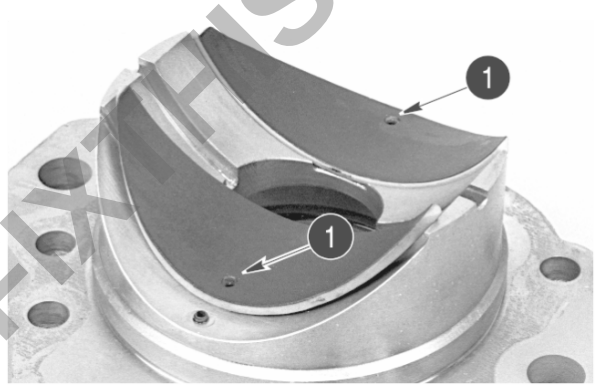
32. Hold the special bolt in place. Slide the special nut (with the sealing surface side down) onto the special bolt. Tighten the special nut, but do not overtighten.



bd01h246 32

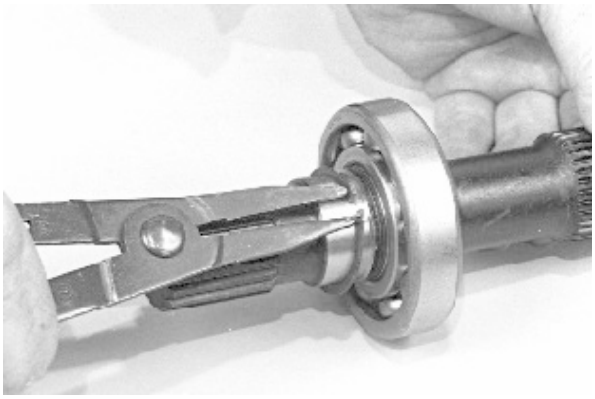
33. During disassembly, the bearings on the cover were inspected **Pump Right hand pump - Disassemble (C.20.F)**. If one of the bearings need to be replaced, align and insert the cover roll pin **(1)** into the hole of the bearing. This will ensure proper placement.

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****).*



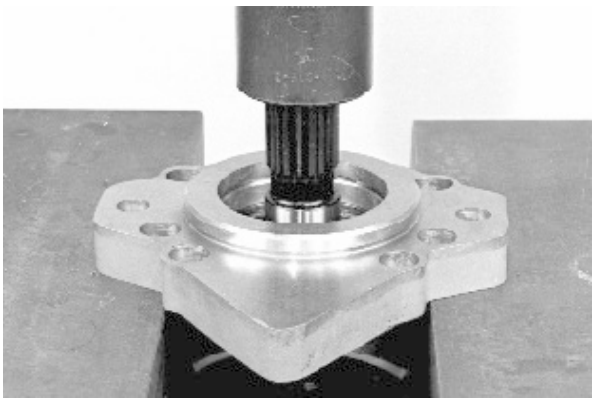
b518838_1 33

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.



B518843 34

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



B518730 35

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FRONT AXLE - Remove

450, 465

1. Raise the machine off the floor. Place approved jack stands underneath the machine.
2. Loosen and remove the wheel nuts and wheels.
3. Loosen and remove the chain tank inspection cover retaining bolts and washers.
4. Remove the cover and the gasket. Check the gasket for damage. Replace if necessary.
5. Loosen the flange nuts that hold the axle housings enough to allow the axle housings to move.
6. Insert a pry bar against the adjusting spud and axle housing.
7. Pry against the axle housing until the chain is loose enough to be removed from the drive sprocket.
8. Remove the 4 rubber plugs inside the chassis to gain access to the bolt. Remove the bolt and washers.
9. Remove the flange nuts and the axle assembly from the chassis.
10. Remove and discard the O-ring.
11. Remove the chain from the sprocket.
12. Remove the drive motors.

NOTE: *To remove the sprocket through the opening of the inspection cover, the drive motors must first be removed.*

13. Remove the sprockets.

NOTE: *Record the location of the sprockets before removing them. Both sprockets are interchangeable but face opposite directions.*

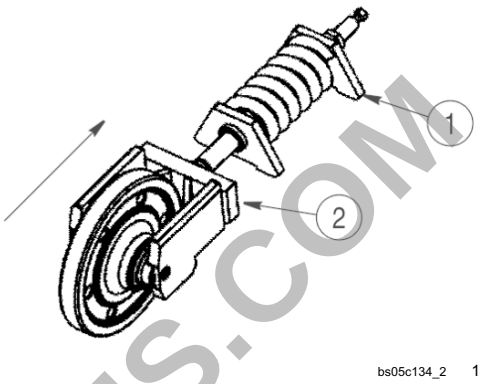
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Track tensioning mechanism - Install

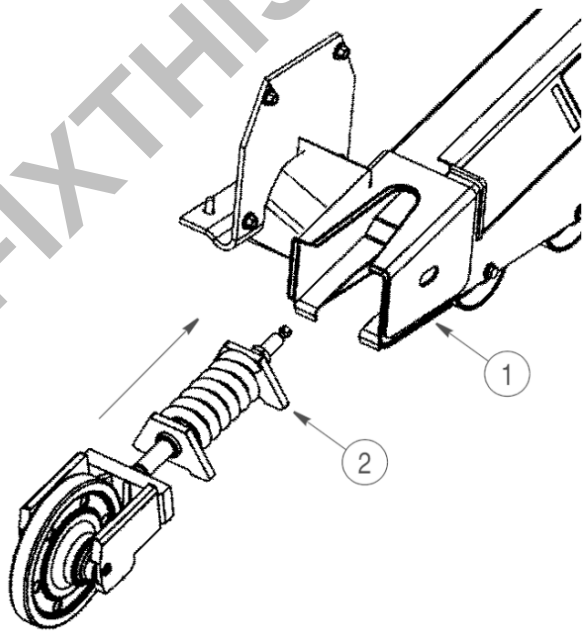
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1. Slide the yoke assembly **(2)** onto the track tension assembly **(1)**.



bs05c134_2 1

2. Slide the track tension assembly **(2)** into the main frame **(1)**.

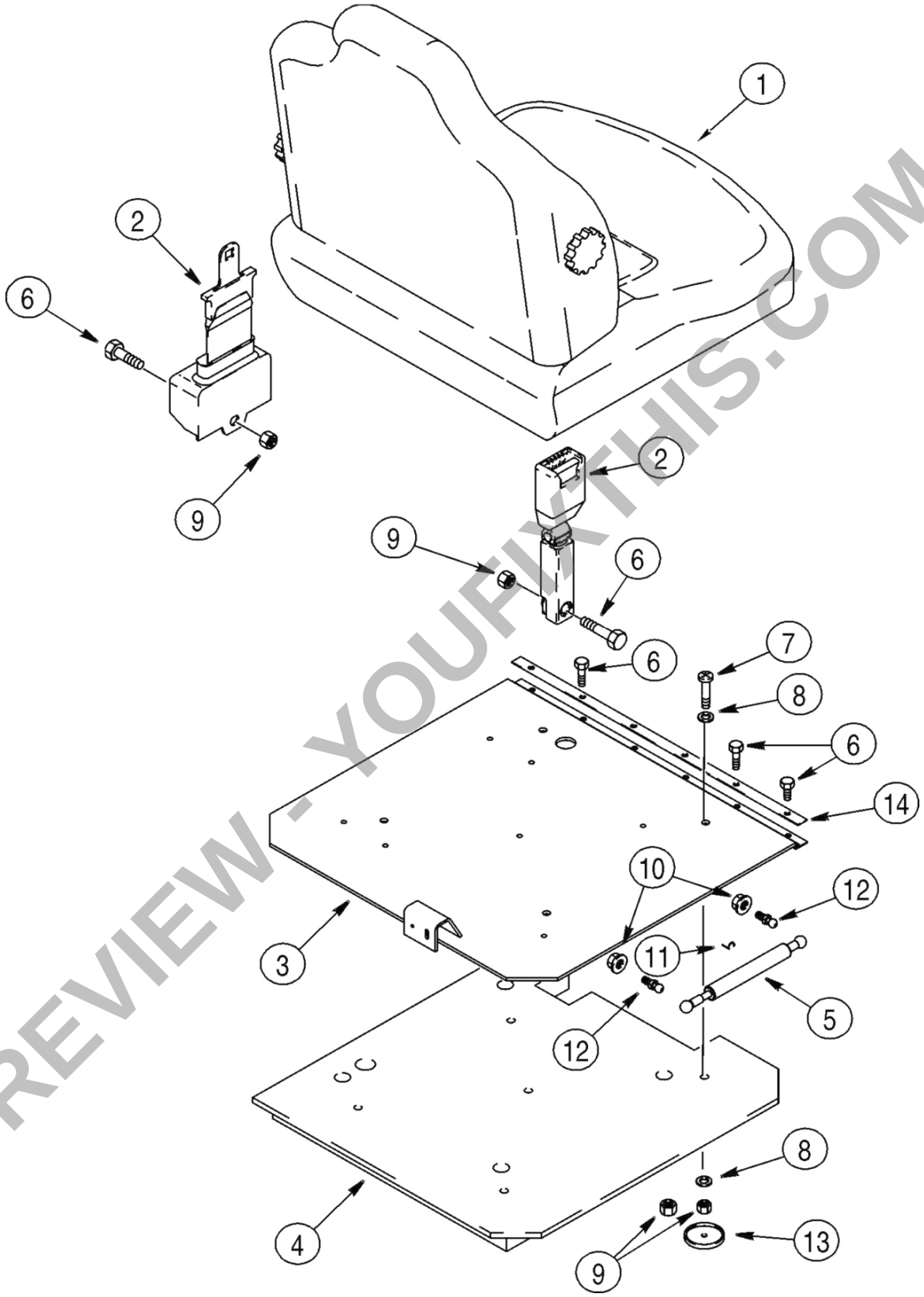


bs05c135_2 2

Next operation:
Refer to **Rubber track - Install (D.50.B)** and install the track.
After the track has been installed, follow the procedure **Rubber track - Tension adjust (D.50.B)** and adjust the tension of the track.

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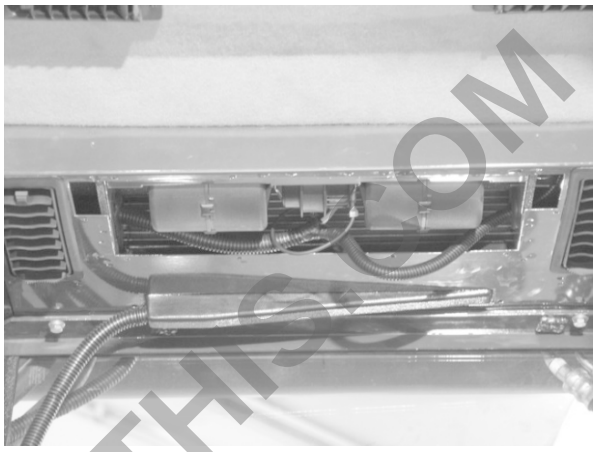
BT97H033 2

Suspension Seat Mounting (If Equipped)	
1. Seat	8. Washer
2. Seat belt	9. Lock Nut

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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.



bd04n030 1

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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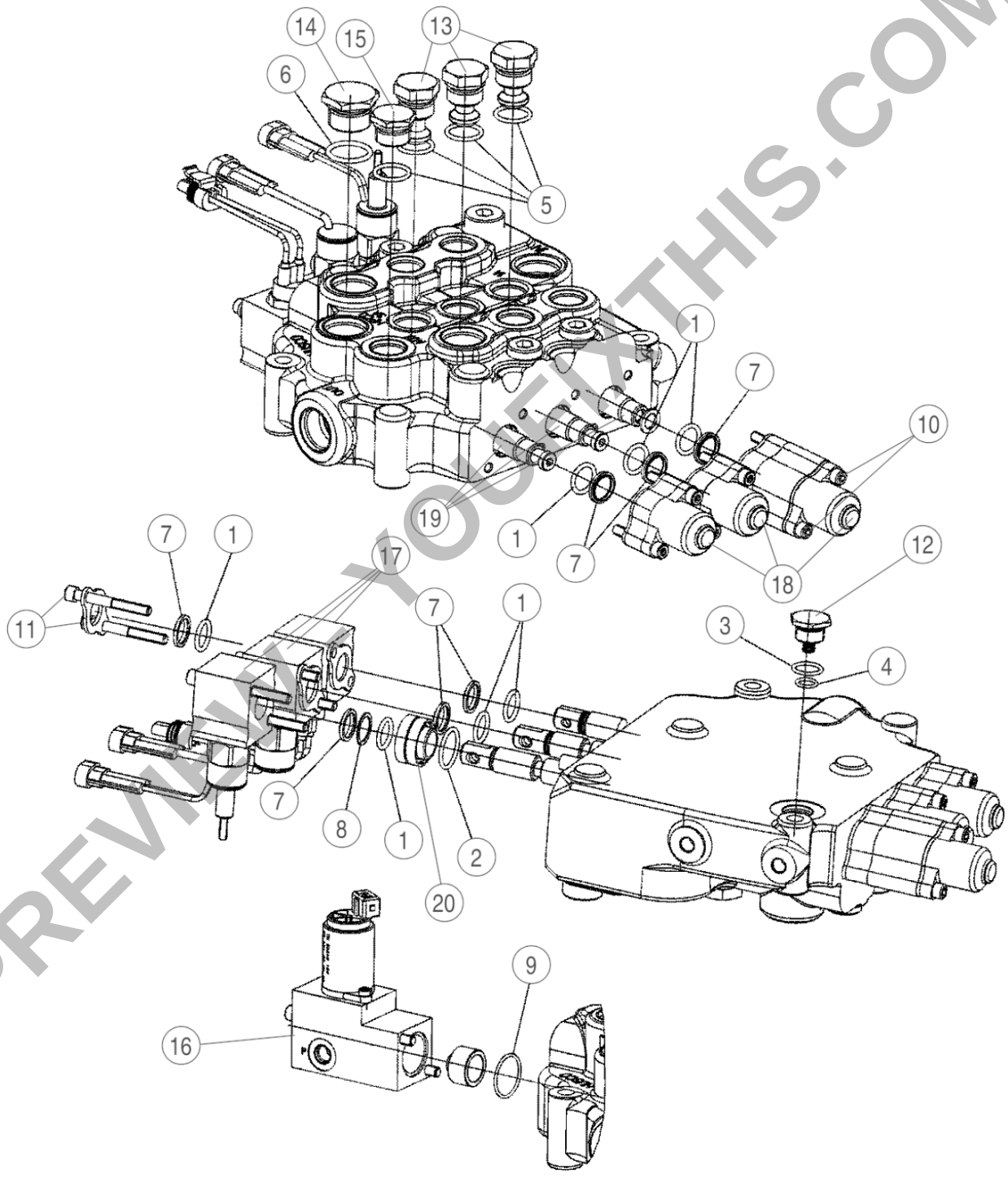
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N°	Test Point	Expected Result	Other Result (Possible Cause)
3	Check between the terminals of each individual switch.	Open	Bad backup alarm switch.
4	Start the engine and run at low idle. Have another person move the control handles to the REVERSE position. Check between the terminals of each individual switch.	Continuity	Bad seat bar switch.

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11. Refer to **Control valve - Install (H.40.B)** and follow the procedure to install the Loader Control Valve onto the machine. After the Loader Control Valve has been installed on the machine, start the engine and run at low idle for 5 to 10 minutes and cycle the Loader Control Valve and check for any leaks. Stop the engine. Check the hydraulic oil level in the hydraulic reservoir and add hydraulic oil as required.

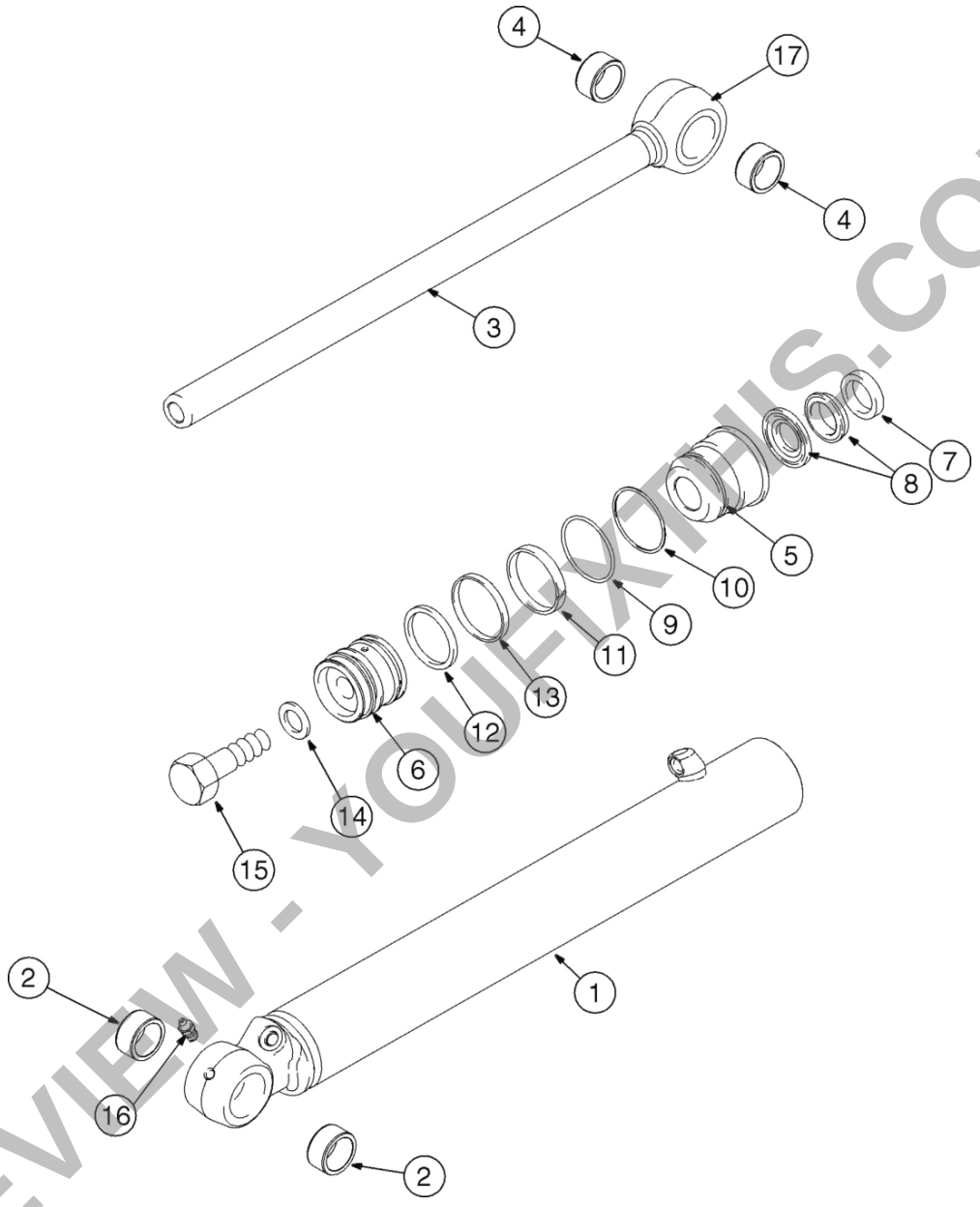


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Cylinder - Visual inspection

465



BT97F010 1

Loader Bucket Cylinder

1. Tube	7. Wiper	13. Wear ring
2. Bushing	8. Seal (kit)	14. Washer
3. Piston Rod	9. O-ring	15. Bolt
4. Bushing	10. Backup ring	16. Grease fitting
5. Packing gland	11. Seal	17. Rod end
6. Piston	12. Backup ring	

1. Clean the piston **(6)**, packing gland **(5)**, piston rod **(3)**, tube **(1)**, washer **(15)**, and bolt **(16)** in cleaning solvent.

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