SERVICE MANUAL

SKID STEER
COMPACT TRACK LOADER

410
420
420CT

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87364090 NA
Replaces 6-78950 NA

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CNH AMERICA LLC
700 STATE STREET
RACINE, WI 53404 U.S.A.

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410/420 SKID STEER AND 420CT COMPACT TRACK LOADER
Service Manual
Bur 87364090

Table of Contents

Description	Section Number	Publication Form Number
General	**Tab 1**	
Section Index - General		6-79040
Fluids and Lubricants	1001	6-79031
Standard Torque Specifications	1002	7-52931
Metric Conversion Chart	1003	7-52950
Engines	**Tab 2**	
Section Index - Engines		6-79050
Engine and Radiator Removal and Installation	2000	6-79130
For Engine Repair - See Engine Service Manual		6-79550
Fuel Systems	**Tab 3**	
Section Index - Fuel Systems		6-79060
For Fuel System Repair - See the Engine Service Manual		6-79550
Electrical	**Tab 4**	
Section Index - Electrical		6-79070
Electrical Specifications and Troubleshooting and Schematics	4001	6-79540
Battery	4005	7-51310
Starter and Starter Solenoid	4006	7-53091
Tracks	**Tab 5**	
Section Index - Tracks		5-2630
Tracks	5001	5-2610
Drive Sprocket, Idler Wheels, and Rollers	5002	5-2620
Power Train	**Tab 6**	
Section Index - Power Train		6-79080
Hydrostatic System Troubleshooting	6001	6-79331
Removal and Installation of Hydrostatic Components	6002	6-79531
Drive Coupling	6003	6-79120
Piston Pump	6004	6-49580
Drive Motors (Eaton)	6005	6-79020
Single Speed Drive Motors	6005	6-79000
Sprocket, Chains, and Axle Assemblies	6007	6-79300

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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 ..... 17 litres (17.9 quarts)
- Recovery bottle capacity ..... 2 litres (2.1 quarts)
- Specifications ..... 50% water and 50% ethylene glycol

HYDRAULIC SYSTEM
- Capacity - Total System ..... 50.2 litres (13.3 gallons)
- Capacity - Reservoir ..... 32.4 litres (7.1 gallons)
- Specifications ..... Case Akcela No. 1 Engine Oil SAE 10W30

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

FINAL DRIVE (CT MODELS)
- Capacity - Each Side ..... 0.55 L (0.58 quarts)
- Specifications ..... CASE AKCELA GEAR LUBE SSL 75W-90 (Synthetic)

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 (410/420 and 420CT MACHINES)
- Capacity - with filter change ..... 8.7 litres (9.2 quarts)
- Capacity - without filter change ..... 8.5 litres (9 quarts)
- Specifications ..... Case Akcela No. 1 Engine Oil SAE 10W-30 (API service CH-4) ..... (See Oil Viscosity/Temperature Ranges Chart on page 4)

ENGINE CRANKCASE OIL (430/440 and 440CT MACHINES)
- Capacity - with filter change ..... 12 litres (12.7 quarts)
- Specifications ..... Case Akcela No. 1 Engine Oil SAE 10W-30 (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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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

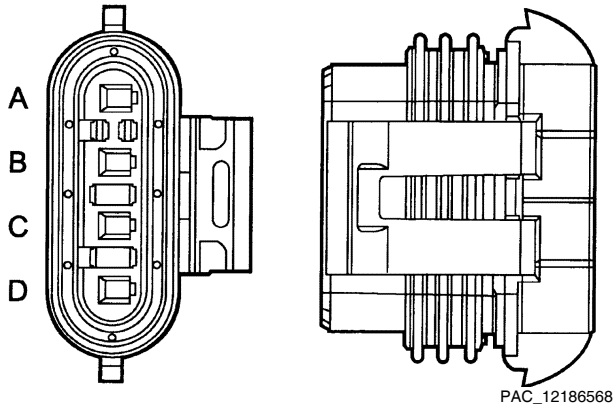
NOTE: *Use thick nuts with Grade 8 bolts.*

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CONNECTORS SCHEMATIC FRAME 1

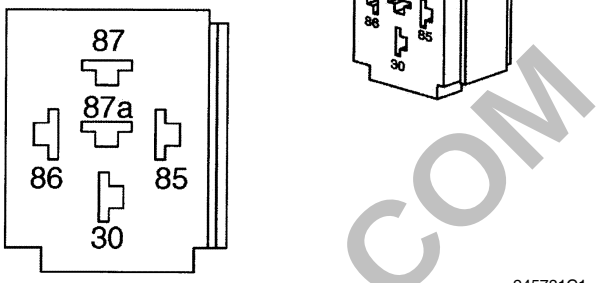
Connector 4 Alternator



PAC_12186568

Cavity	Circuit ID	Description
A	124A (R) 1.0	To connector 8A pin B4
B	121B	From Alternator to 50 ohm resistor

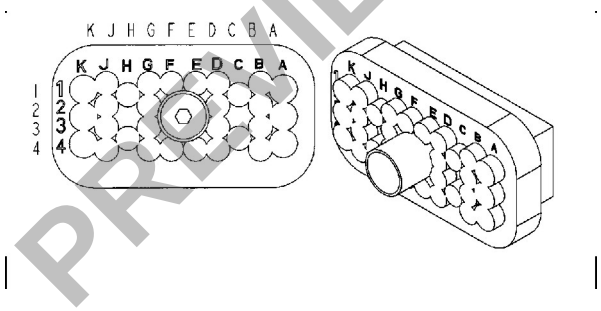
Connector 7 Starter Relay



245731C1

Cavity	Circuit ID	Description
30	170A (R) 5.0	From 40 amp circuit breaker to connector 7 pin 30
85	178A (B) 2.0	From start relay to ground
85	178B (B) 1.0	From start relay to main power relay
86	622D (W) 1.0	To connector 127A pin B
87	625A (W) 3.0	From start relay to starter solenoid

Connector 8

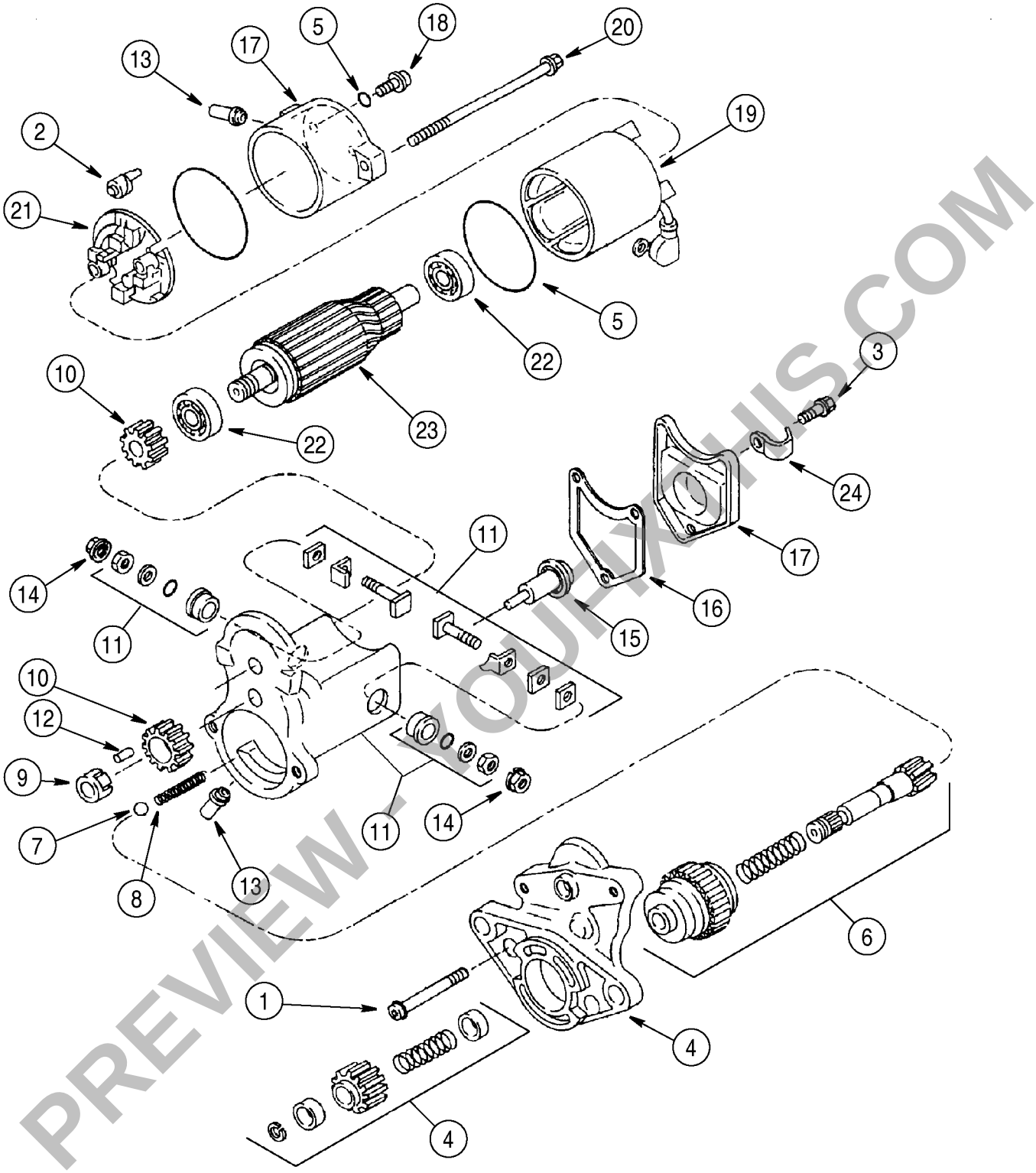


256357A1

Cavity	Circuit ID	Description
A1	130B (R) 2.0	From connector 9 pin C
B2	131B (R) 1.0	From connector 9 pin B
A3	137A (R) 3.0	From connector 9 pin D
B3	622B (W) 1.0	From connector 9 pin A

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1. SCREW
2. SPRING STARTER
3. CAP SCREW
4. STARTER DRIVE HOUSING
5. O-RING
6. STARTER DRIVE
7. STEEL BALL
8. SPRING
9. BEARING CAGE
10. PINION
11. STARTER SOLENOID ASSEMBLY
12. ROLLER
13. DRAIN BUSHING
14. NUT
15. PLUNGER
16. GASKET
17. COVER
18. SCREW
19. FIELD FRAME
20. CAP SCREW
21. BRUSH HOLDER
22. BEARING
23. ARMATURE
24. CLAMP

STARTER AND STARTER SOLENOID EXPLODED VIEW

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RADIATOR

Removal

NOTE: *Photos may be slightly different from the machine you are repairing. The procedure is the same.*

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

STEP 1

Park the machine on a level surface.

STEP 2

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

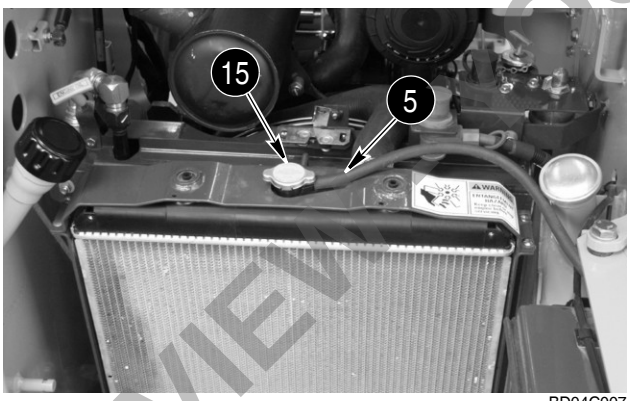
STEP 3

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

STEP 4

Disconnect the negative battery cable from the battery.

STEP 5

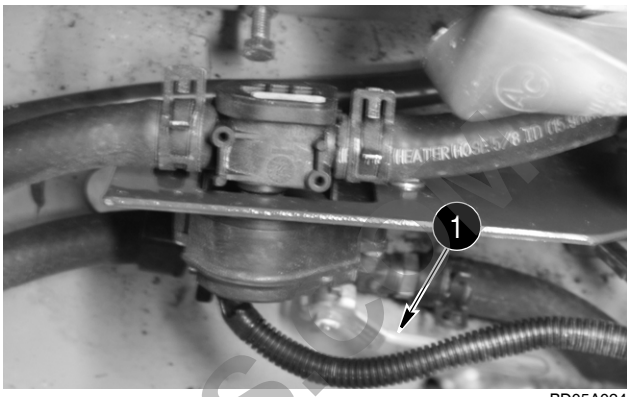


BD04C007

Slowly loosen the radiator cap (15). Disconnect the overflow hose (5) from the radiator neck.

NOTE: *Refer to illustration on page 5.*

STEP 6



BD05A024

If equipped with a heater, open the heater coolant valve.

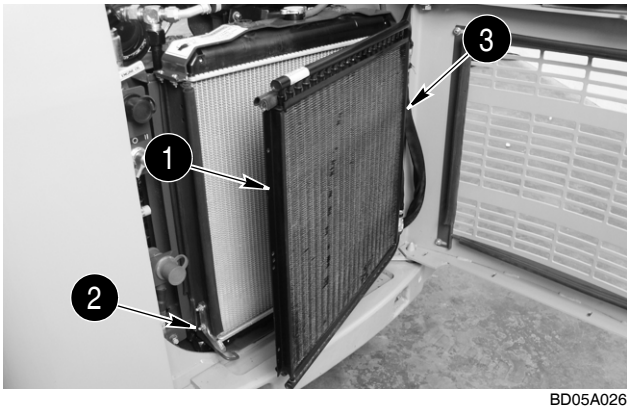
STEP 7

Install a hose on the drain valve (16) and drain the radiator (1) into a clean container that holds approximately 17 litres (4.5 gallons).

STEP 8

If equipped with a heater, close the heater coolant valve (1).

STEP 9

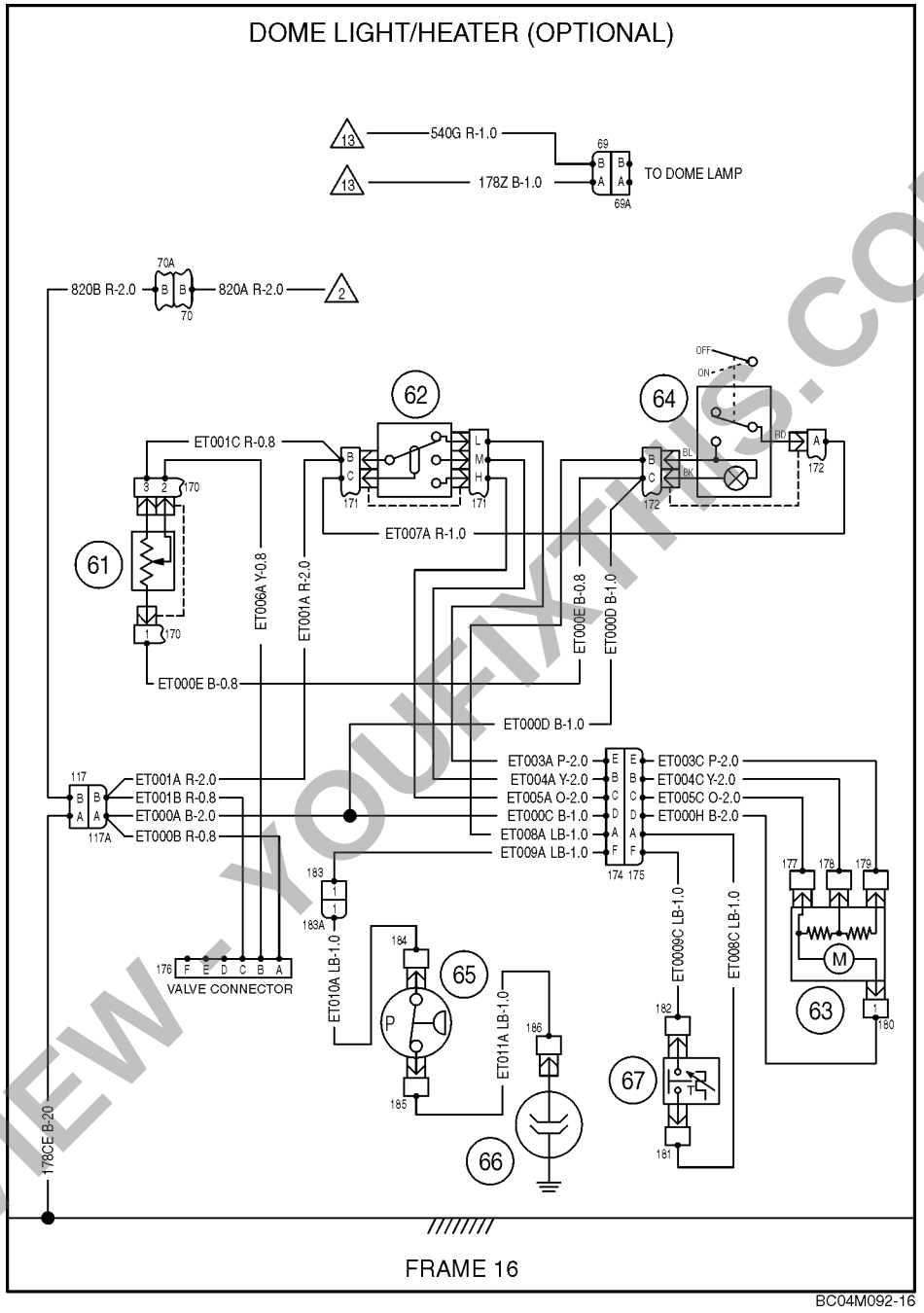


BD05A026

If the machine is equipped with a High Flow Oil Cooler (1), release the latch (2) on the lower left side of the oil cooler and swing the oil cooler away from the radiator. Remove mounting bolts (3) from the hinge and remove the oil cooler (1) from the radiator mounting location. Secure the oil cooler away from the radiator.

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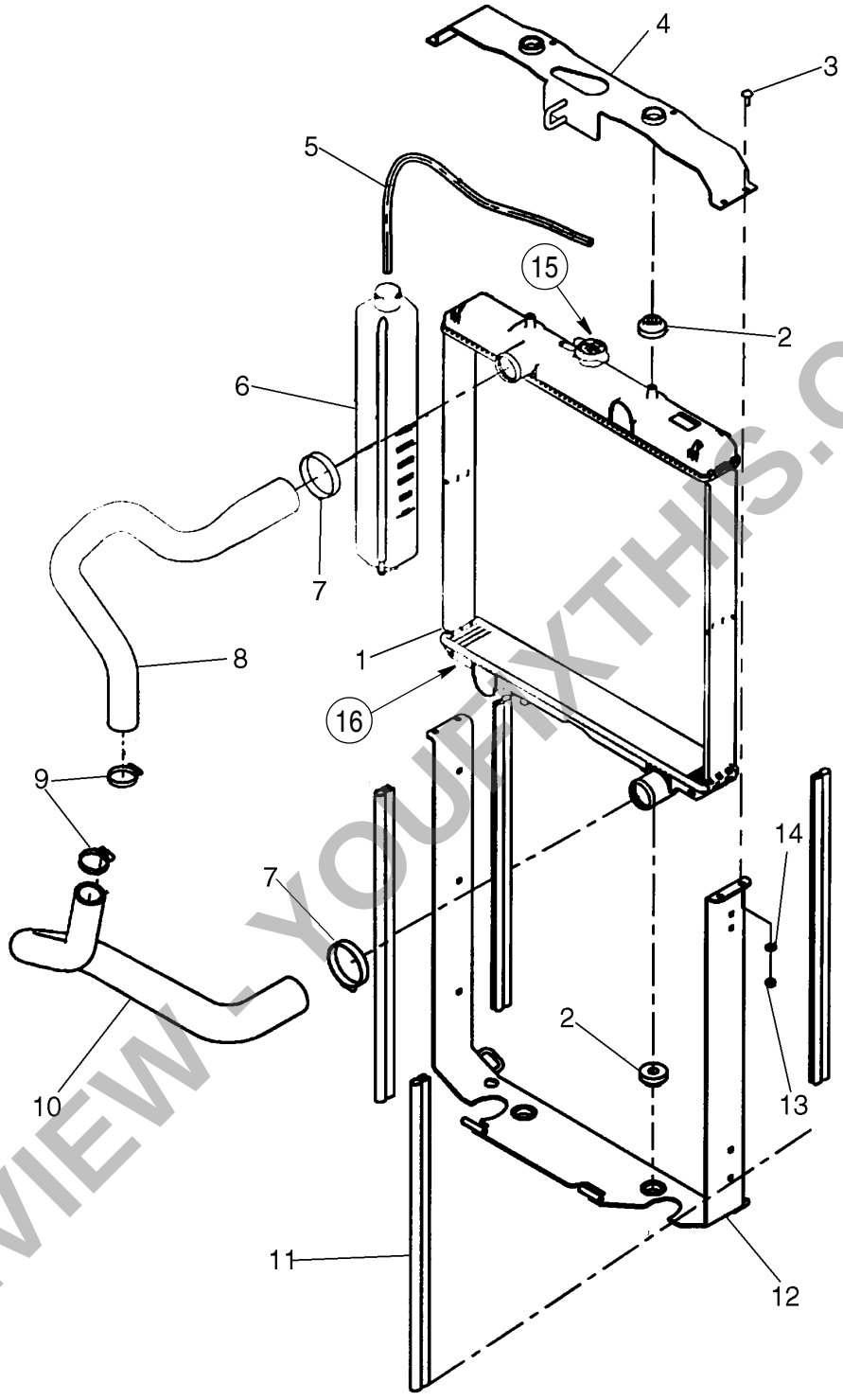


61. HEAT CONTROL SWITCH
62. FAN SPEED SWITCH
63. BLOWER MOTOR
64. OPTION NOT AVAILABLE 410 AND 420
65. OPTION NOT AVAILABLE 410 AND 420
66. OPTION NOT AVAILABLE 410 AND 420
67. OPTION NOT AVAILABLE 410 AND 420

ELECTRICAL SCHEMATIC FRAME 16

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BS04M094

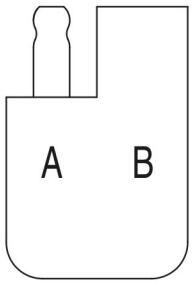
BS04M094

1. RADIATOR
2. CUSHION
3. BOLT
4. UPPER FRAME ASSEMBLY
5. COOLANT RECOVERY HOSE
6. COOLANT RECOVERY BOTTLE
7. CLAMP
8. UPPER RADIATOR HOSE
9. CLAMP
10. LOWER RADIATOR HOSE
11. SEAL
12. LOWER FRAME ASSEMBLY
13. NUT
14. LOCK WASHER
15. RADIATOR CAP
16. DRAIN VALVE

410 AND 420 RADIATOR MOUNTING

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Connector 99

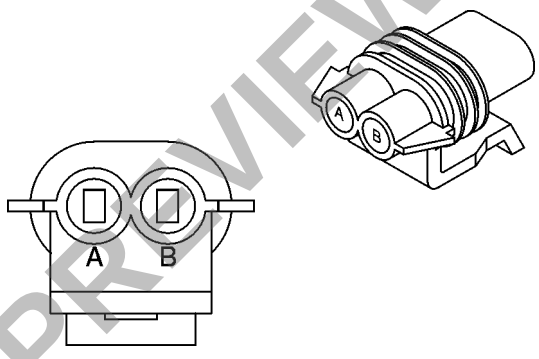


CNH_STYLE_24

Cavity	Circuit ID	Description
A	781B (P) 0.8	From connector 8A pin E1
A	781C (P) 0.8	From connector 93 pin 86
B	782C (P) 1.0	From connector 96 pin 86

CONNECTORS SCHEMATIC FRAME 8

Connector 39 (Grey)

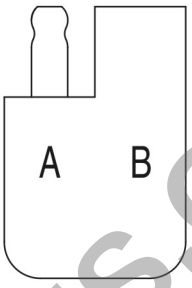


256340A1

Cavity	Circuit ID	Description
A	890A (R) 1.0	From primary fuse block T7
B	892C (O) 1.0	To horn

CONNECTORS SCHEMATIC FRAME 10

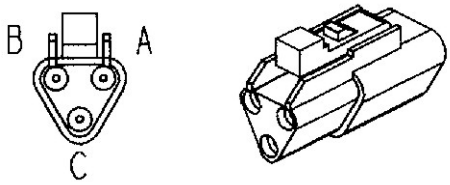
Connector 50A



CNH_STYLE_24

Cavity	Circuit ID	Description
A	313F (T) 1.0	From connector 140 pin 1
B	313J (T) 1.0	From connector 140 pin 2

Connector 51



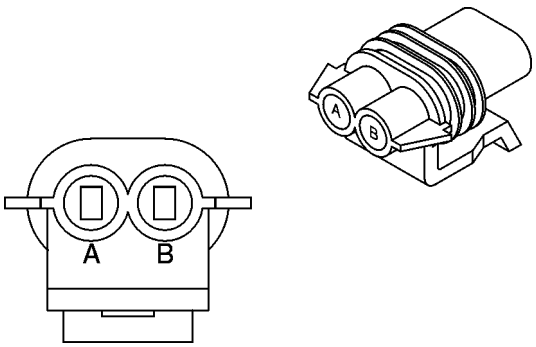
225295C1

Cavity	Circuit ID	Description
A	313H (T) 1.0	From connector 140A pin 2
B	313G (T) 1.0	From connector 140A pin 1

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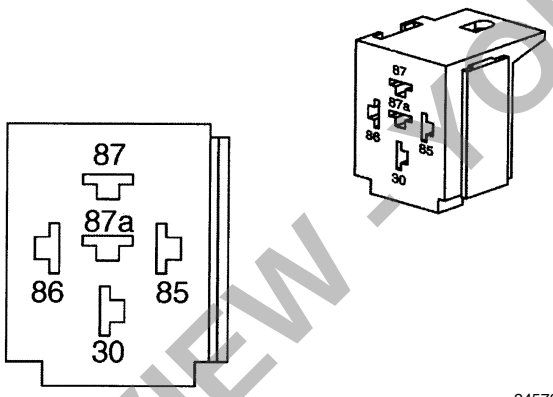
Connector 34



256340A1

Cavity	Circuit ID	Description
A	783G (P) 1.0	From splice
B	178R (B) 1.0	To ground

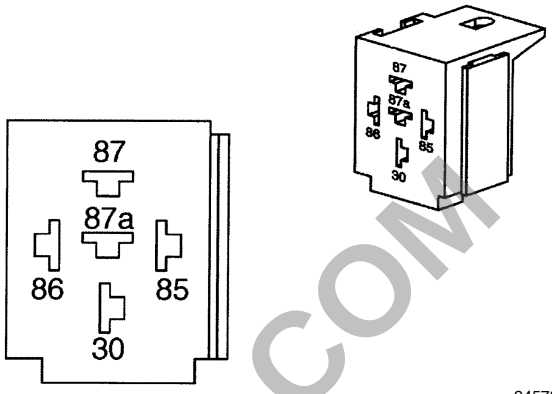
Connector 93



245731C1

Cavity	Circuit ID	Description
85	178U (B) 0.8	To ground
87	706A (P) 3.0	To connector 102 pin 1
87A	784A (P) 2.0	To connector 101B
30	783B (P) 2.0	From splice
85	178U (B) 1.0	To ground
86	781C (P) 0.8	To connector 99 pin A

Connector 96



245731C1

Cavity	Circuit ID	Description
30	780A (R) 3.0	From primary fuse block T1
85	178AU (B) 0.8	To connector 93 pin 85
87	783A (P) 3.0	From connector 8A pin A2
86	782B (P) 0.8	From connector 8A pin E1
86	782C (P) 0.8	To connector 99 pin B

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REVISION HISTORY			
Issue	Issue Date	Applicable Machines	Remarks
First Edition	02-2005	410 and 420	6-78950 NA
Revision 1	03-2006	410, 420, and 420CT	87364090 NA

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STEP 8

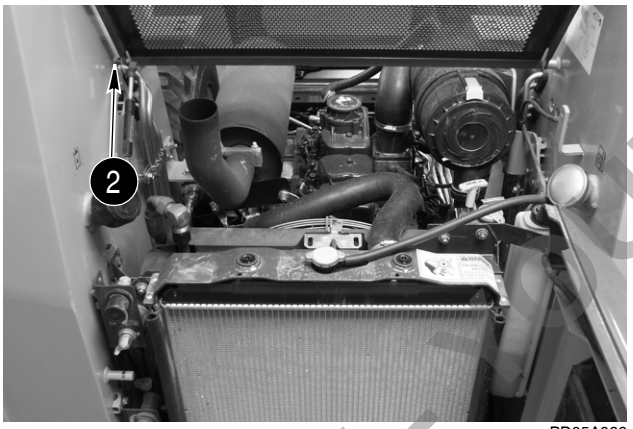


BD05A029

1. CYLINDER PIVOT BOLT

Remove the nut from cylinder pivot bolt (1) on the hood end of the cylinder.

STEP 9



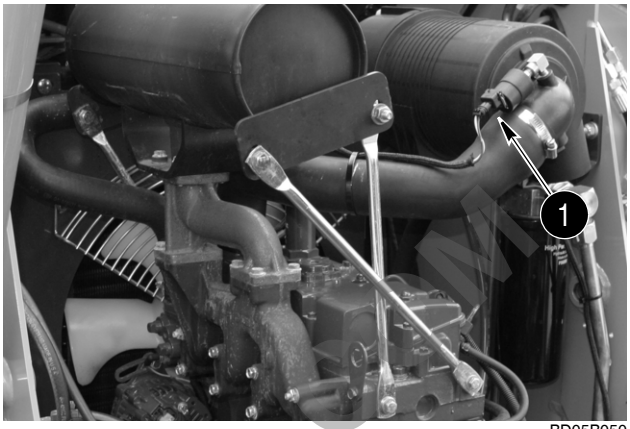
BD05A066

Remove the plastic clip (2) from the hood pivot shaft. Slide the hood to the left and remove the hood from the hood pivot shaft on both sides of the machine. Remove the hood from the machine.

STEP 10

Push the hood to the right hand side of the machine and remove the left hand side of the hood from the pivot pin. Remove the hood from the machine.

STEP 11

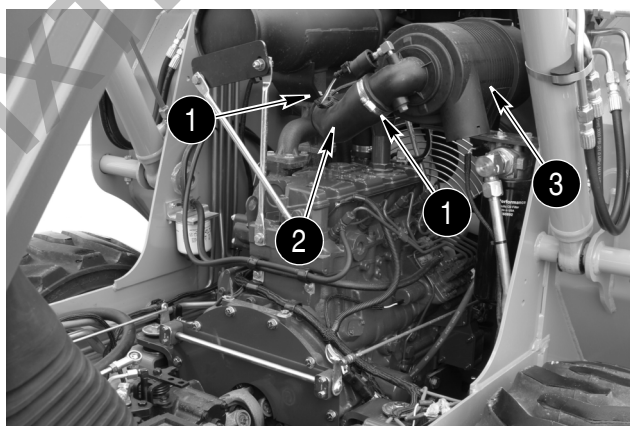


BD05B050

1. AIR RESTRICTION INDICATOR SWITCH

Disconnect the electrical connector for the air restriction indicator switch (1).

STEP 12



BD05B049

Loosen the clamps (1) on the outlet hose (2). Remove the outlet hose (2) from the intake and air filter assembly (3).

NOTE: *Torque clamps (1) 3 to 4 Nm (25 to 35 pound-inches) during assembly.*

NOTE: *Refer to illustration on page 14 and 15.*

STEP 13

Loosen and remove the mounting bolts and washers from the air filter housing mounting bracket.

STEP 14

Remove the air cleaner and bracket from the machine.

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Instrument Cluster

Check Points	Reading	Possible Cause of Bad Readings

NOTE: *See Troubleshooting Electronic Instrument Cluster (EIC) in this Section.*

27 Hydraulic Filter Pressure Switch

Check Points	Reading	Possible Cause of Bad Readings
Check between the housing of the hydraulic filter pressure switch and the filter housing.	Continuity	Bad ground connection between the hydraulic filter pressure switch and the filter housing.
Check between switch housing and engine ground.	Continuity	Bad ground connection between filter housing and frame.
NOTE: *Turn the ignition switch to the RUN position.*		
Terminal for wire 261A to ground	Approximately 12 volts	Check the circuit between the hydraulic filter pressure switch and the instrument cluster. Also check the instrument cluster. If the readings are good, replace the hydraulic filter pressure switch.

28 Hydraulic Oil Temperature Sender

Check Points	Reading	Possible Cause of Bad Readings
Disconnect the connector from the hydraulic oil temperature sender and use a voltmeter set to read resistance. Measure the resistance from the sender terminal to the machine frame.	For temperatures greater than 60° F the sender resistance should measure between 4300 ohms 60° F and 180 ohms 212° F.	Temperature of oil outside of range indicated. Bad sender.
Reconnect the connector to the hydraulic oil temperature sender. Remove the instrument cluster and disconnect the 26 pin connector from the instrument cluster. Measure the resistance from terminal 2 to terminal 20 of the 26 pin connector in the wiring harness.	For temperatures greater than 60° F the sender resistance should measure between 4300 ohms 60° F and 180 ohms 212° F.	Temperature of oil outside of range indicated. Bad sender. bad wiring to the sender.

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95 Front Electric Control Switch No. 2

Check Points	Reading	Possible Cause of Bad Readings
NOTE: *Turn the ignition switch to the ON position. Place the front electric control switch No. 2 in the UP position.*		
Terminal for wire 004R to ground	12 volts	Check the circuit between the loader lift arm auxiliary electric connector and the front electric control switch No. 2. Also check the front electric control switch No. 2.
NOTE: *Turn the ignition switch to the ON position. Place the front electric control switch No. 2 in the DOWN position.*		
Terminal for wire 005Y to ground	12 volts	Check the circuit between the loader lift arm auxiliary electric connector and the front electric control switch No. 2. Also check the front electric control switch No. 2.

96 Front Electric Control Switch No. 3

Check Points	Reading	Possible Cause of Bad Readings
NOTE: *Turn the ignition switch to the ON position. Place the front electric control switch No. 3 in the UP position.*		
Terminal for wire 006P to ground	12 volts	Check the circuit between the loader lift arm auxiliary electric connector and the front electric control switch No. 3. Also check the front electric control switch No. 3.
NOTE: *Turn the ignition switch to the ON position. Place the front electric control switch No. 3 in the DOWN position.*		
Terminal for wire 007T to ground	12 volts	Check the circuit between the loader lift arm auxiliary electric connector and the front electric control switch No. 3. Also check the front electric control switch No. 3.

97 Front Electric Control Switch No. 4

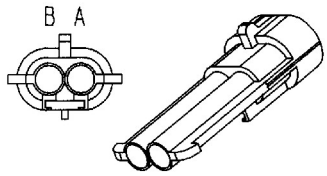
Check Points	Reading	Possible Cause of Bad Readings
NOTE: *Turn the ignition switch to the ON position. Place the front electric control switch No. 4 in the ON position.*		
Terminal for wire 008W to ground	12 volts	Check the circuit between the loader lift arm auxiliary electric connector and the front electric control switch No. 4. Also check the front electric control switch No. 4.

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CONNECTORS
SCHEMATIC FRAME 24

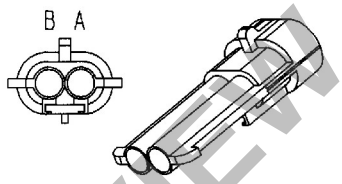
Connector 79B



256341A1

Cavity	Circuit ID	Description
A	311AB (R) 1.0	To attachment hydraulic forward flow “ON” switch (option B)

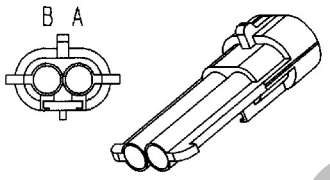
Connector 79C



256341A1

Cavity	Circuit ID	Description
B	565AC (T) 1.0	To 2 speed switch (option D)
A	311AC (R) 1.0	To attachment hydraulic forward flow “ON” switch (option D)

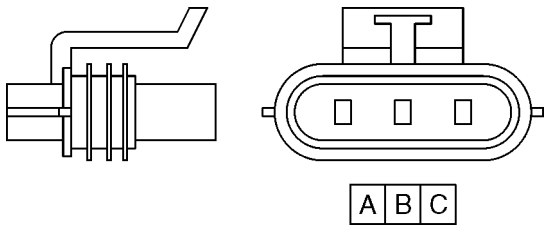
Connector 79D



256341A1

Cavity	Circuit ID	Description
B	565AD (T) 0.8	To 2 speed switch (option D)
A	311AD (R) 1.0	To attachment hydraulic forward flow “ON” switch (option D)

Connector 85A



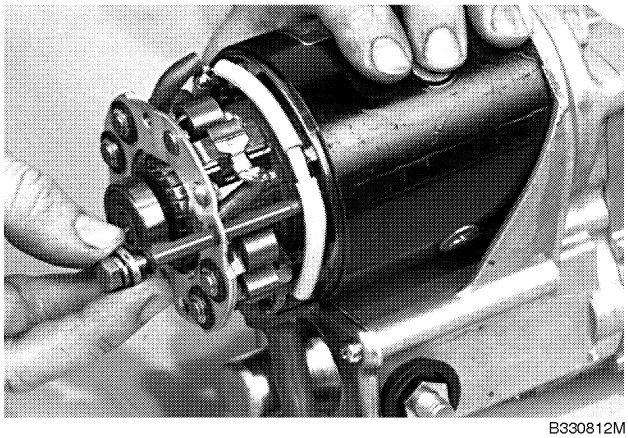
256344A1

Cavity	Circuit ID	Description
C	756AA (LB) 0.8	From turn signal switch (option A)
B	540AA (O) 0.8	To turn signal switch (option A)
A	757AA (Y) 0.8	From turn signal switch (option A)

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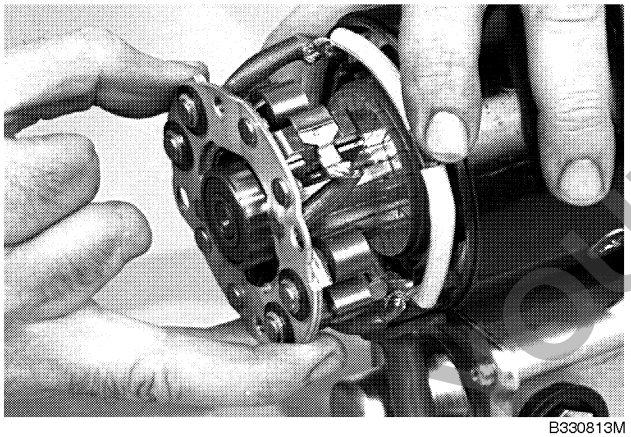
STEP 48



B330812M

Use a cap screw to align the brush holder with the field frame assembly.

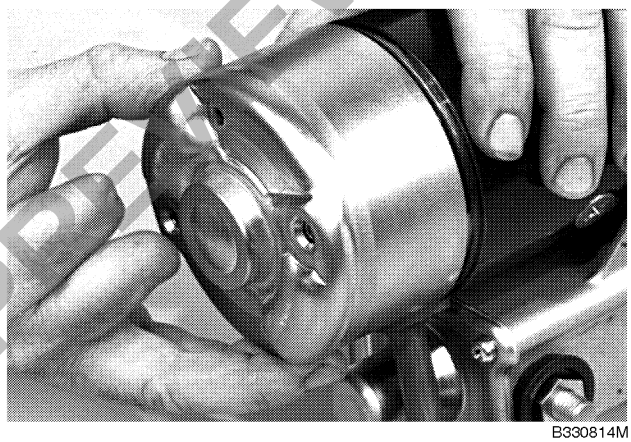
STEP 49



B330813M

Move the brush holder so that the brush holder is even with the end of the armature.

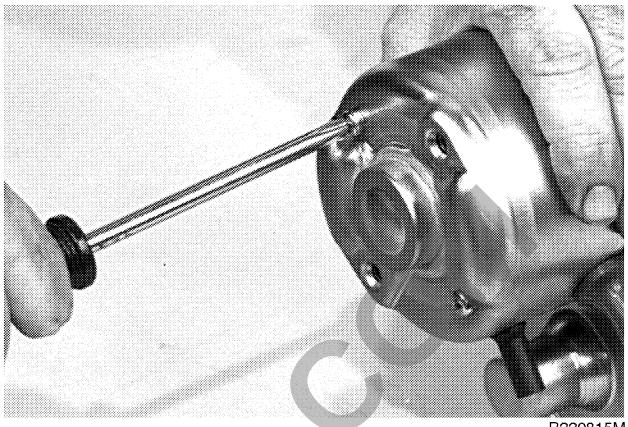
STEP 50



B330814M

Install and align the cover with the brush holder.

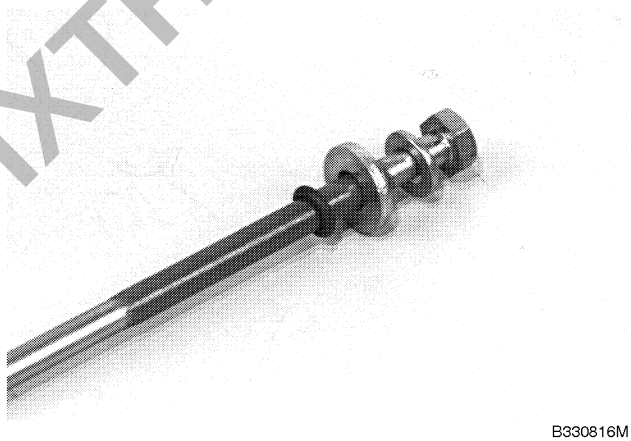
STEP 51



B330815M

Install and tighten the screws that hold the brush holder.

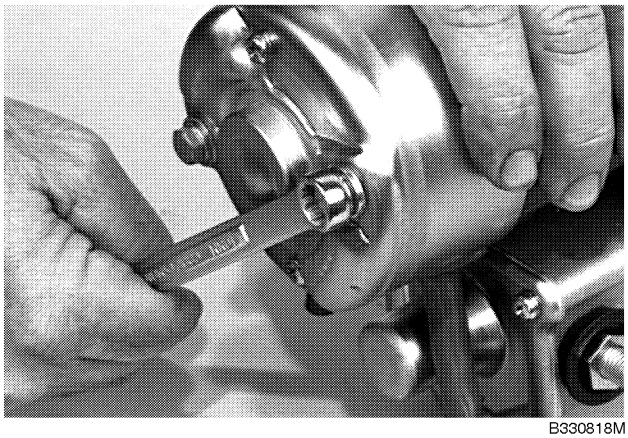
STEP 52



B330816M

Install a lock washer, flat washer, and O-ring on the cap screws. Lubricate the O-rings.

STEP 53



B330818M

Install and tighten the cap screws.

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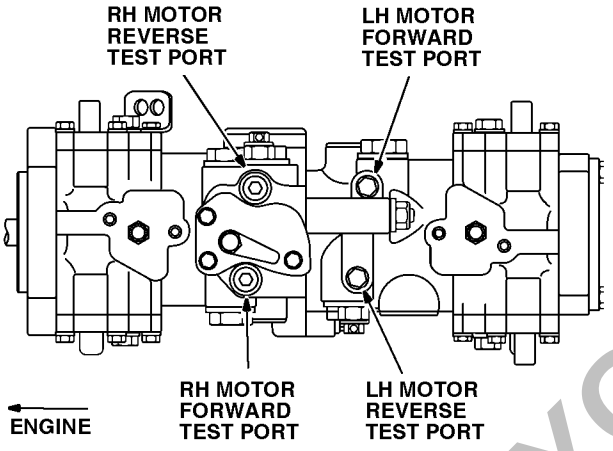
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Check 2 - Checking Circuit Relief Valve Pressure

IMPORTANT: *For the following test the machine MUST be raised up on supports until the tires are above the floor. This is a safety procedure if the parking brake latch pins fail to hold.*

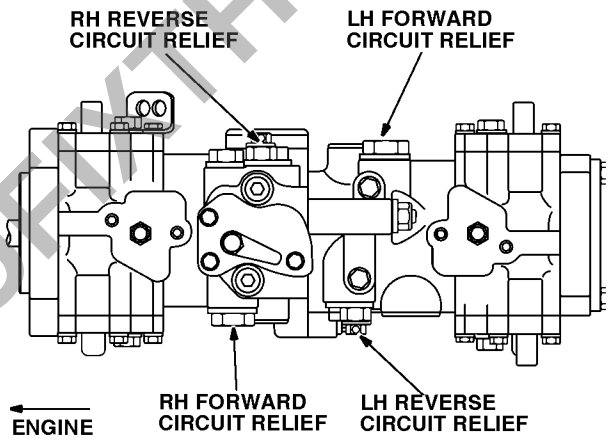
NOTE: *You will need two people to perform this test. The ROPS canopy must be raised to gain access to the hydrostatic pumps. In order to start the engine, someone will need to lower the seat bar to the operating position and press on the seat to close the seat switch.*

1. Connect a 690 bar (10,000 psi) pressure gauge to the test port. See the figure below.



RH AND LH MOTOR TEST PORT LOCATIONS

2. If the hydraulic oil is not at operating temperature run the engine at full throttle and hold the bucket control lever in the ROLLBACK position for 30 seconds. Then return the bucket control lever to NEUTRAL for 15 seconds. Repeat this cycle until the temperature of the oil is at least 52°C (125°F).
3. Run the engine at low idle. Raise the seat bar and slowly move the direction control levers into FORWARD until the pins for the parking brake latch engage each drive sprocket.
4. Increase the engine speed to full throttle. Move the control lever for the circuit being tested one half the distance of full travel and watch the pressure gauge. When the pressure gauge stops increasing, read the pressure gauge and move the control lever to NEUTRAL.
5. The correct pressure is the gauge reading minus the charge pressure. If the pressure is not correct, use a new circuit relief valve. You can temporarily repair a forward circuit by interchanging a functioning reverse circuit relief valve with the forward circuit relief valve. See the figure below.



CIRCUIT RELIEF VALVE LOCATIONS

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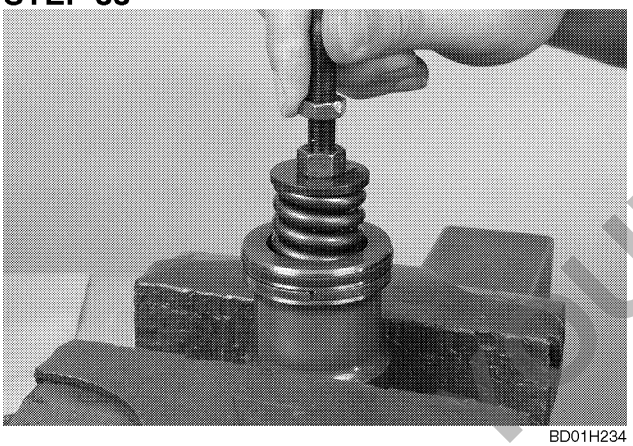
STEP 32



BD01H233

Remove the retaining ring (8). The retaining ring (8) will be difficult to remove.

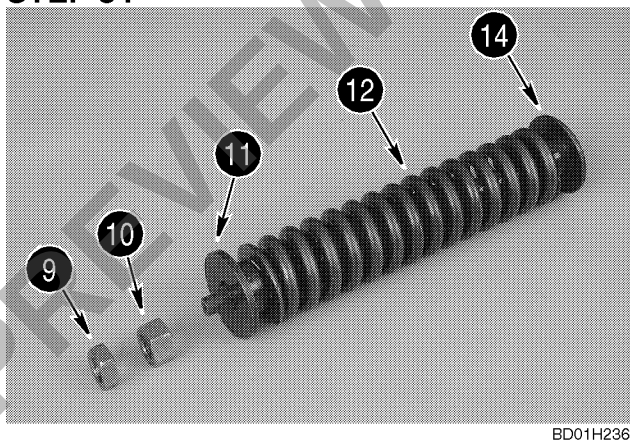
STEP 33



BD01H234

Remove the spring assembly (12).

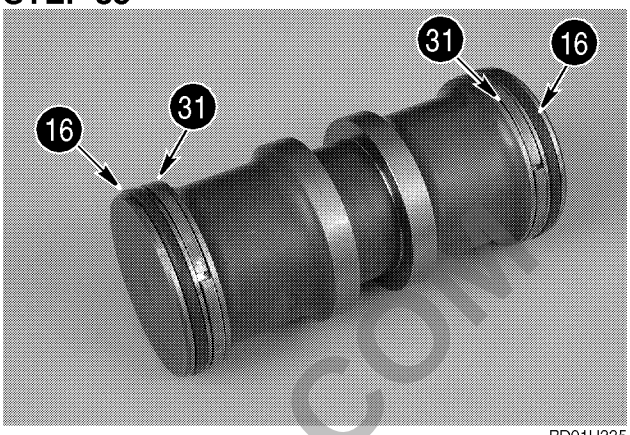
STEP 34



BD01H236

Remove the jam nut (9) and adjusting nut (10). Separate the outer spring guide (11), spring (12), sleeve (13), and inner spring guide (14).

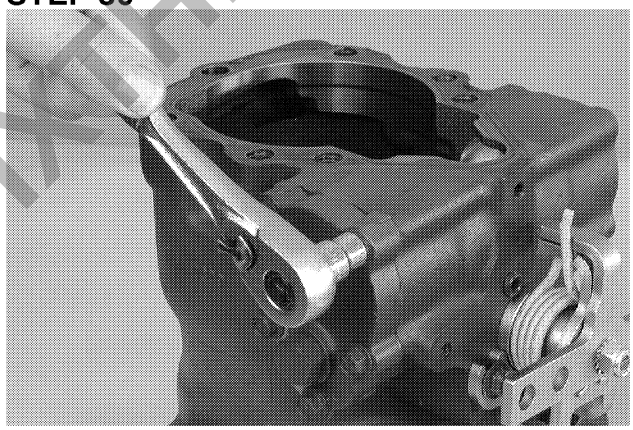
STEP 35



BD01H235

Remove and discard the piston rings (16, 31), and O-rings (17) from the piston (18).

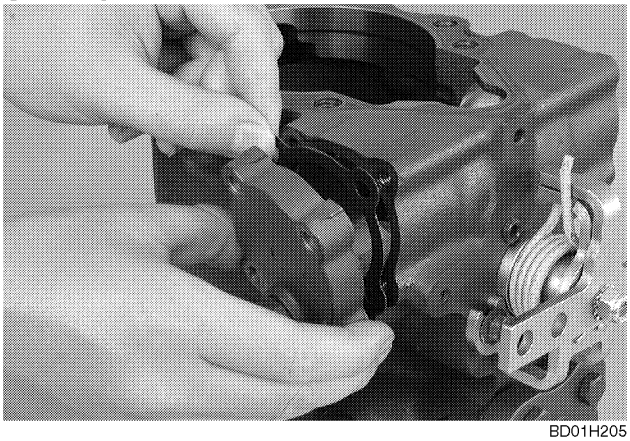
STEP 36



BD01H204

Remove the screws (3) from the cover (19).

STEP 37



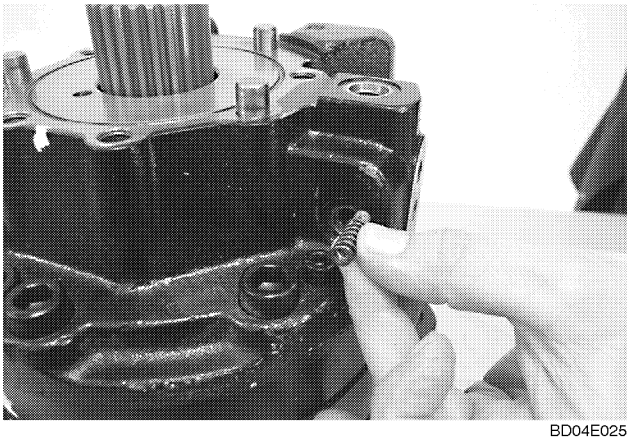
BD01H205

Remove the cover (19) and gasket (7).

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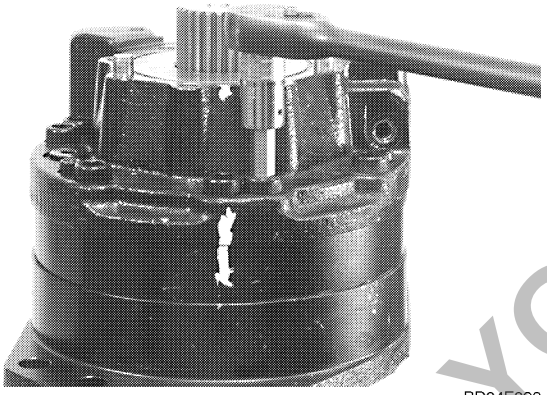
STEP 19



BD04E025

Remove the spring and the flushing poppet.

STEP 20



BD04E026

Loosen the socket head cap screws.

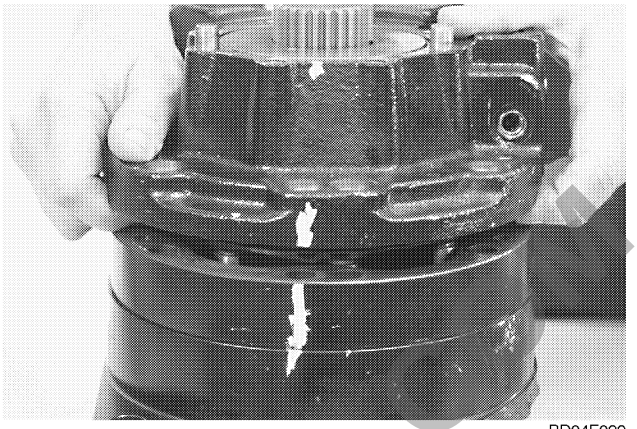
STEP 21



BD04E028

Remove the socket head cap screws.

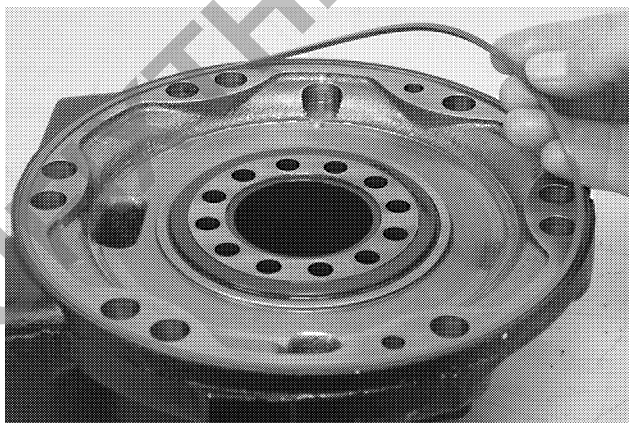
STEP 22



BD04E029

Remove the rear motor case.

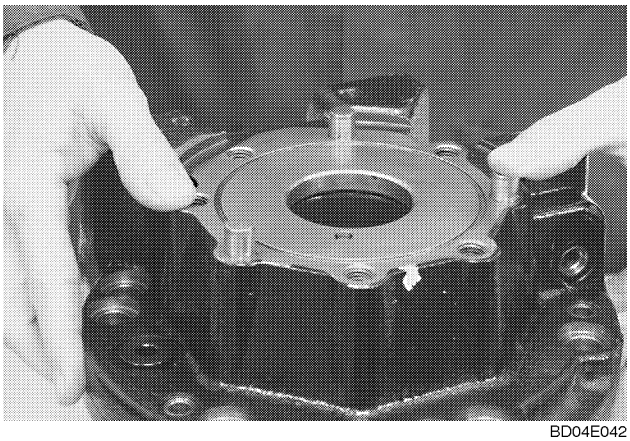
STEP 23



BD04E030

Remove the seal from the rear case.

STEP 24



BD04E042

Drop the rear case assembly from approximately 80mm onto a wooden or plastic surface. This will release the distributor from the rear case.

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420 PARK BRAKES (SPRING APPLIED - HYDRAULIC RELEASE)

Removal

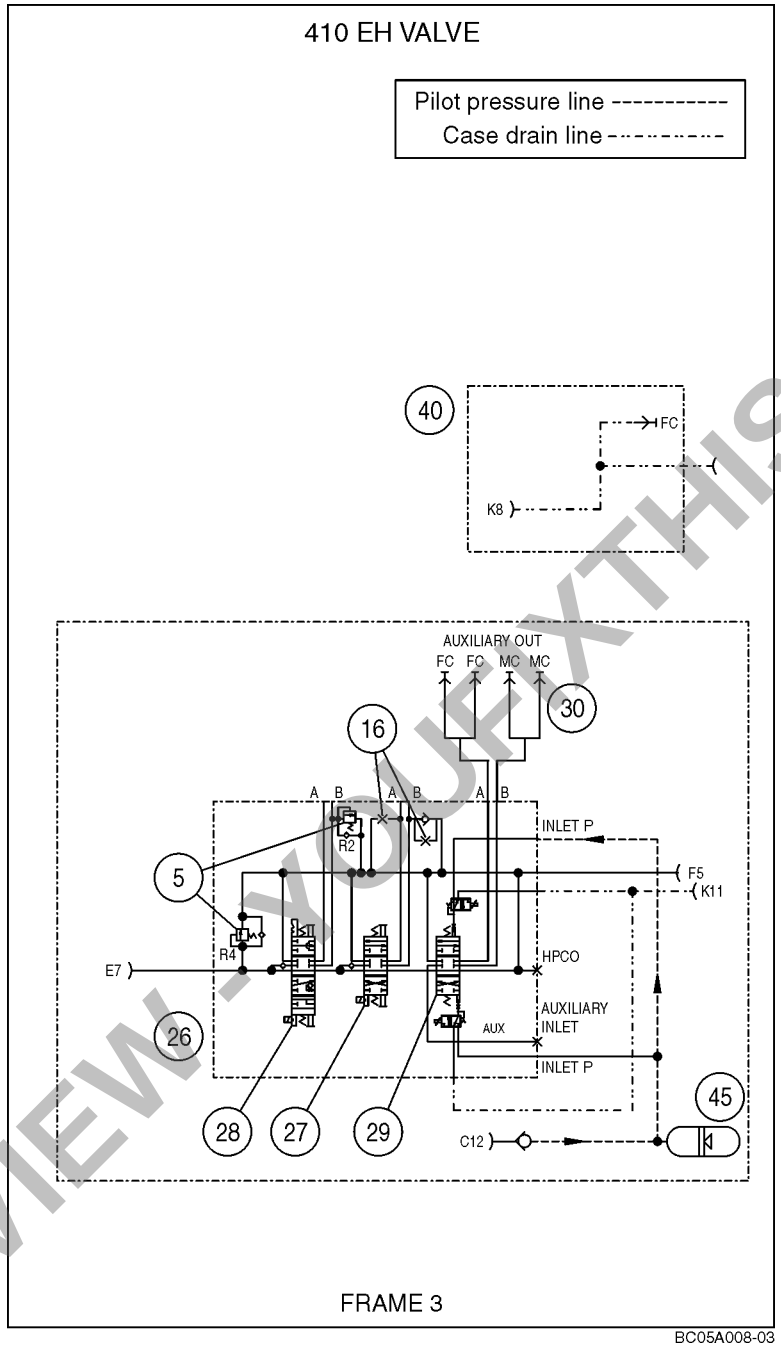
1. Refer to Section 7004 420 Brakes Spring Applied - Hydraulic Release for removal of the park brake components which are part of the drive motor assembly. Follow the steps for removal of the park brake components.

Installation

1. Refer to Section 7004 420 Brakes Spring Applied - Hydraulic Release for installation of the park brake components which are part of the drive motor assembly. Follow the steps for installation of the park brake components.

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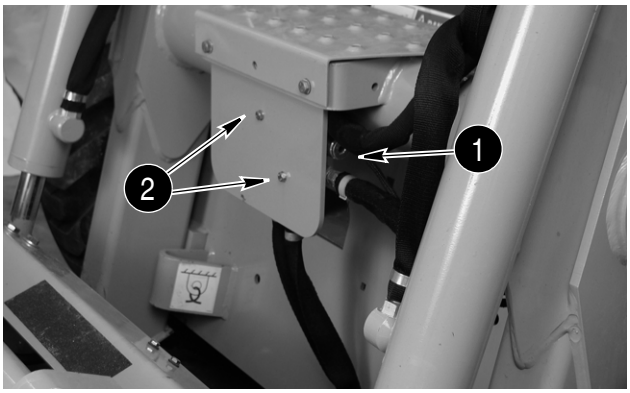
5. CIRCUIT RELIEF VALVE
16. ORIFICE
26. LOADER CONTROL VALVE
27. TILT SPOOL
28. LIFT SPOOL
29. AUXILIARY SPOOL
30. AUXILIARY OUTLETS
37. NOT USED
38. NOT USED
39. NOT USED
40. ATTACHMENT CASE DRAIN
45. ACCUMULATOR

410 HYDRAULIC SCHEMATIC FRAME 3

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Installation

STEP 1



BD05B013

Install the solenoid valve into the mounting location. Install the mounting bolts (2) into the solenoid valve (1) and tighten the mounting bolts (2).

STEP 2



BD05B013

Start the vacuum pump. Remove the caps from the fittings and the plugs from the hoses. Install the hydraulic hoses to the correct fitting locations. Tighten all of the hydraulic connections. Stop the vacuum pump and remove the vacuum pump from the hydraulic reservoir. Install the cap on the hydraulic reservoir.

STEP 3



BD05B013

Connect the electrical harness to the solenoid valve (1) electrical connection.

STEP 4

Start the engine and run at low idle. Check for leaks. Stop the engine and check the hydraulic oil level in the reservoir. Add hydraulic oil as required. Install the cap on the reservoir.

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TABLE OF CONTENTS

FEMALE COUPLER 3
Disassembly 3
Assembly 3
MALE COUPLER 4
Disassembly 4
Assembly 4

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13. Remove the snap ring (10), washer (11), and pin (7) from the loader frame (1). Use an acceptable support and attach the lift cylinder to the loader frame.
14. Follow the procedure in step 12 and remove the left side lift cylinder pivot pin (1).
15. Loosen and remove the bolt (5) and lock nut (6) from the right loader arm pivot pin (7). Use acceptable tools and remove the pivot pin (7).
16. Follow the procedure in step 14 to remove the left loader arm pivot pin (7).
17. Use lifting equipment and remove the loader frame (1) from the chassis.

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