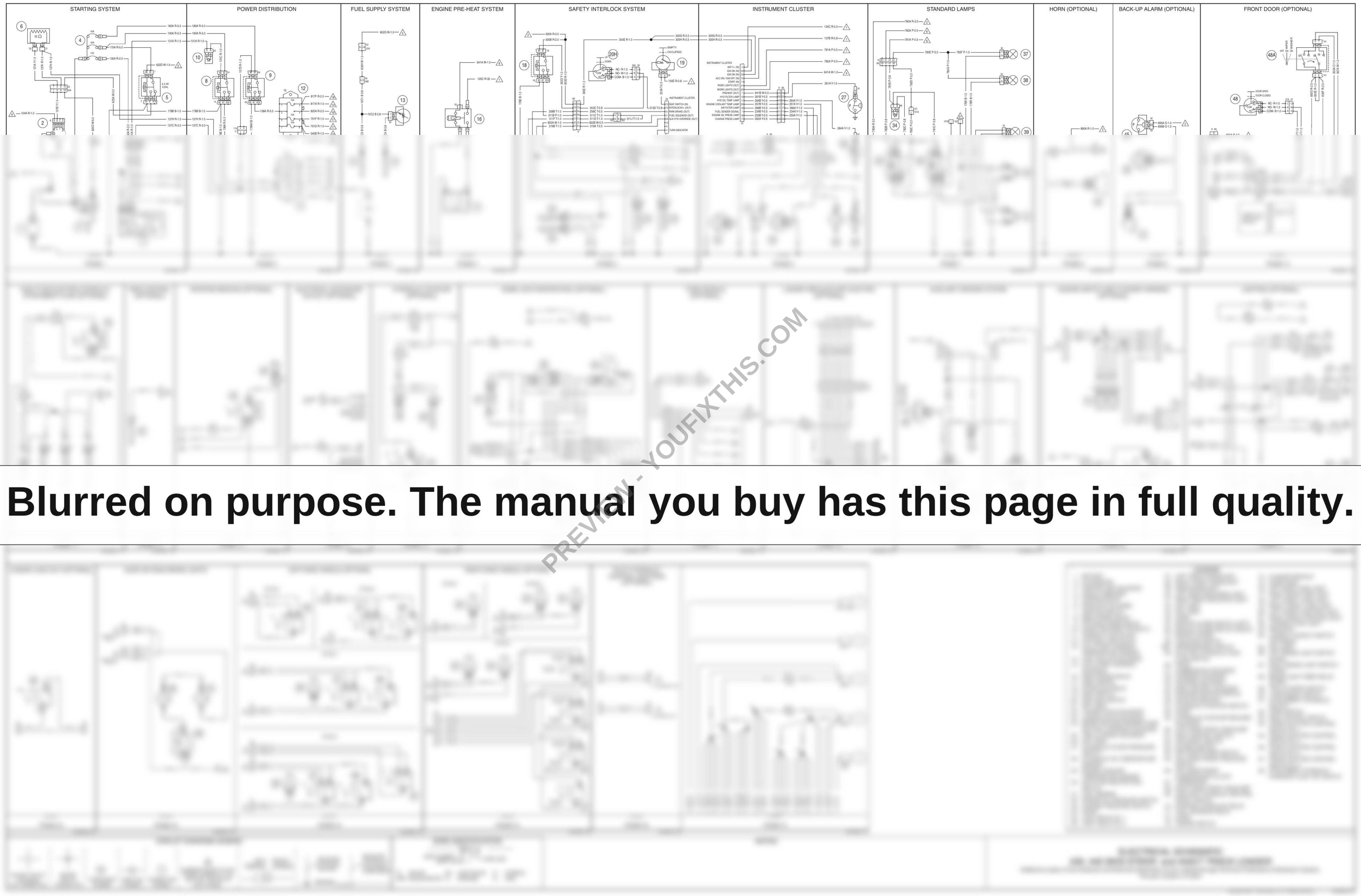
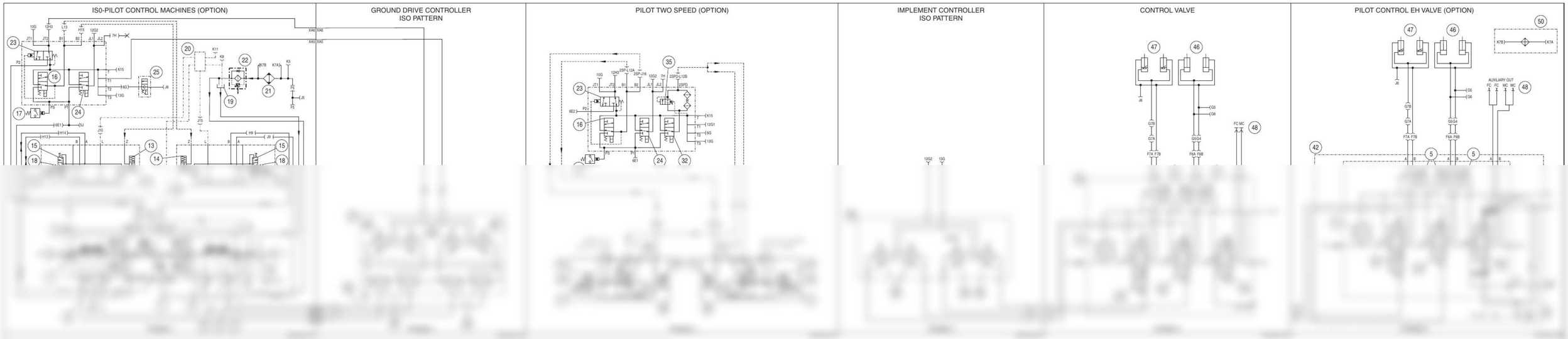


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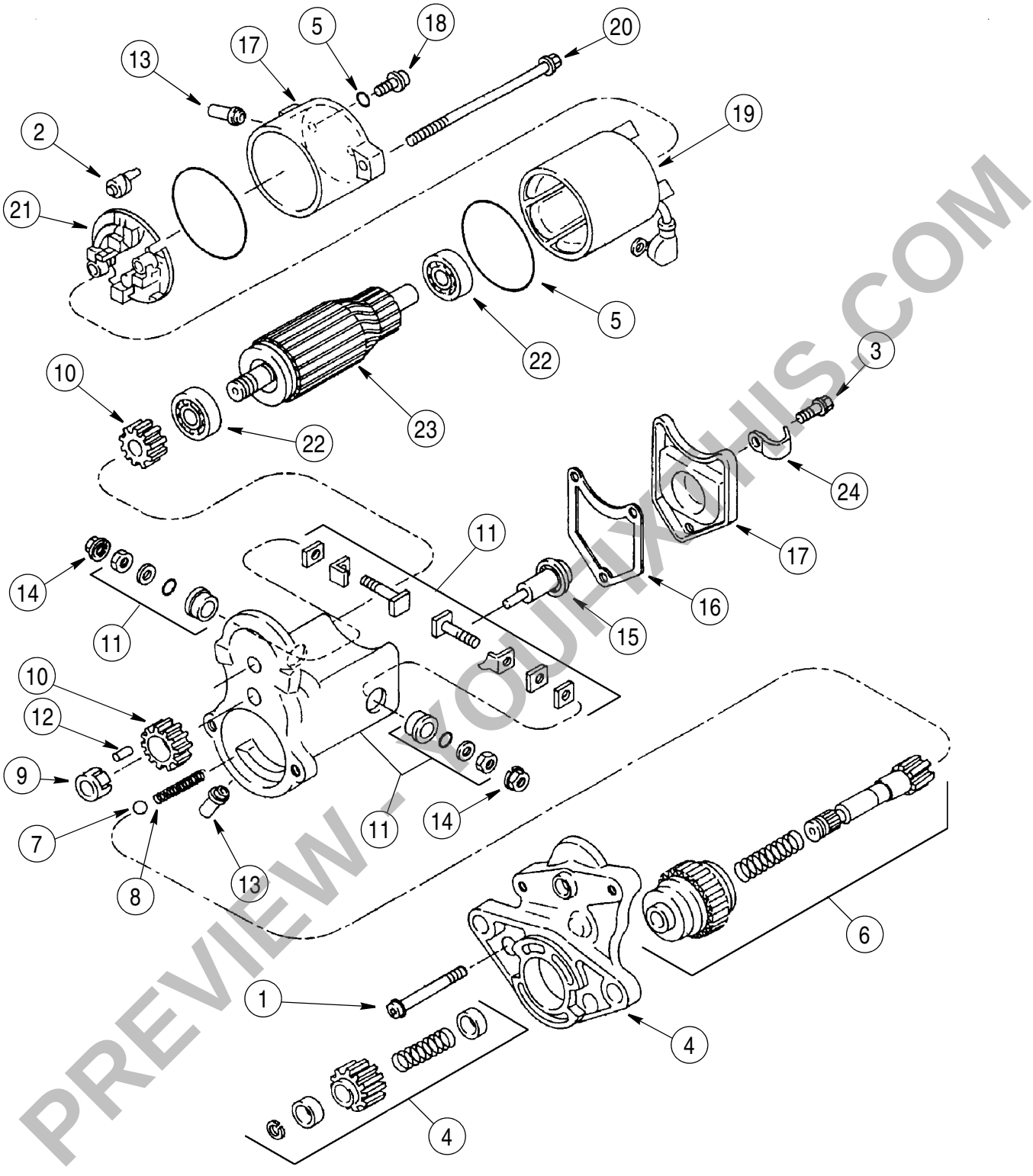
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BS05B254

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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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

Grade 8 Bolts, Nuts, and Studs

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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.

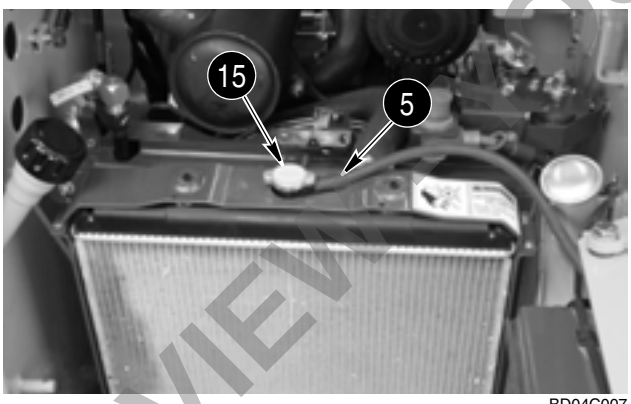
STEP 3

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

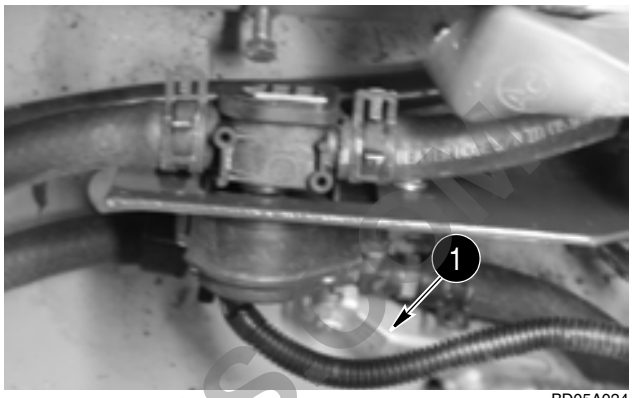


BD04C007

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 (1).

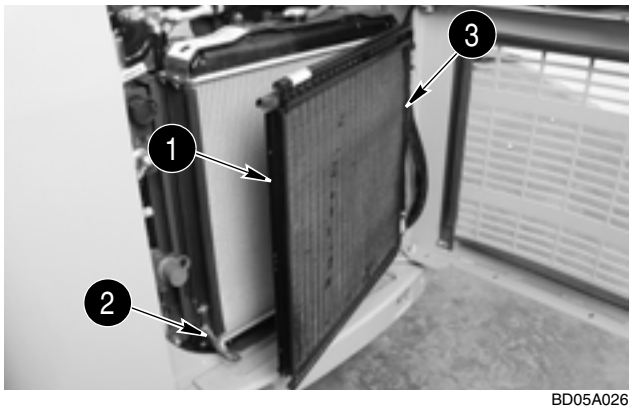
STEP 7

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.

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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TROUBLESHOOTING

1 Battery

NOTE: *The battery must be at full charge and all connections clean and tight before doing any testing of the*

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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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430/440 SKID STEER AND 440CT COMPACT TRACK LOADER
Repair Manual
Mechanical and Pilot Control Machines
(Tier 3 and Cab Up-Grade Machines)

Bur 87634767

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For 440/440CT Tier 3 Engine Repair - See Tier 3 Engine Repair Manual		87630273
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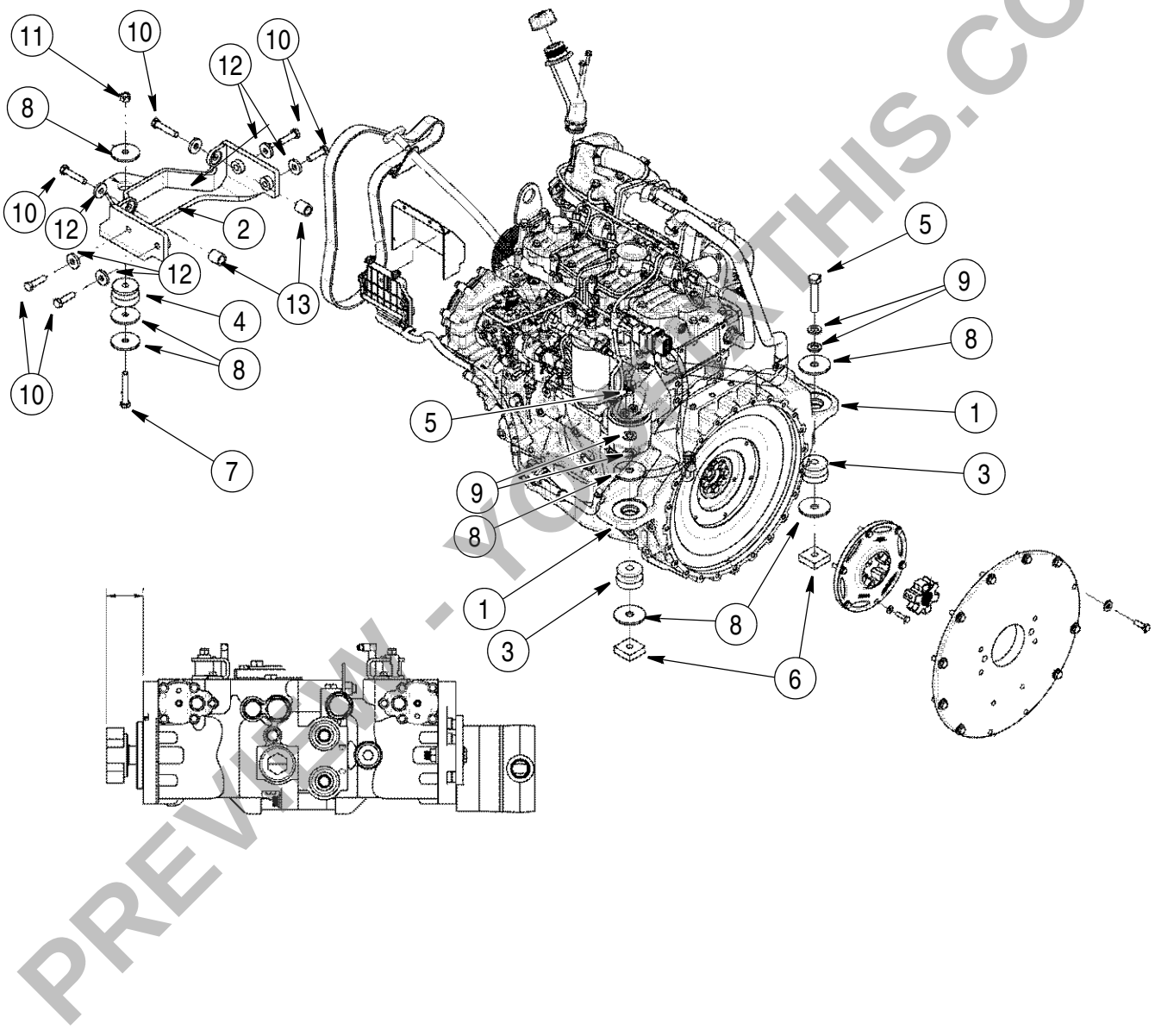
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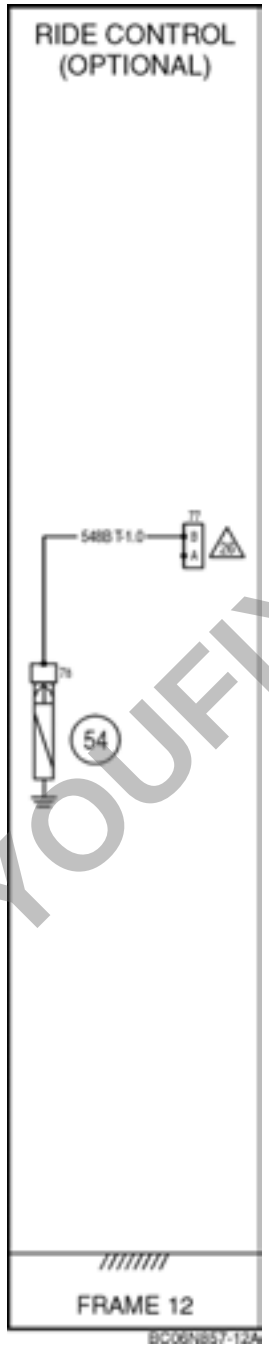


BS07N458

1. FRONT ENGINE MOUNT
2. REAR ENGINE MOUNT
3. FRONT ISO MOUNTS
4. REAR ISO MOUNT
5. FRONT MOUNTING BOLTS
6. FRONT MOUNTING PLATE NUT
7. REAR MOUNTING BOLT
8. LARGE MOUNTING WASHERS
9. WASHER
10. CAP SCREW
11. NUT
12. WASHER
13. REAR ENGINE MOUNT BRACKET SPACER

430 ENGINE MOUNTING

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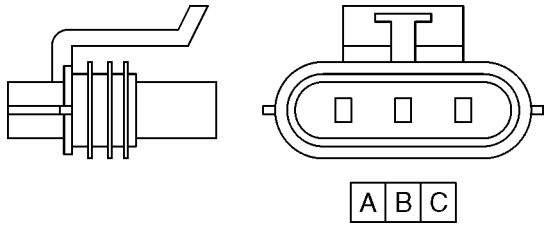
54. RIDE CONTROL SOLENOID

ELECTRICAL SCHEMATIC FRAME 12

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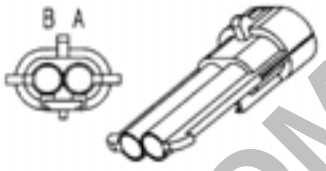
Connector 85D



256344A1

Cavity	Circuit ID	Description
A	757AD (Y) 1.0	From turn signal switch (option D)
B	540AD (O) 0.8	To turn signal switch (option D)
C	756AD (LB) 0.8	From turn signal switch (option D)

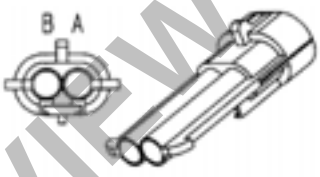
Connector 123C



256294A1

Cavity	Circuit ID	Description
A	545AC(Y) 1.0	From attachment hydraulic switch (option C)
B	546AC (LB) 1.0	From attachment hydraulic switch (option C)

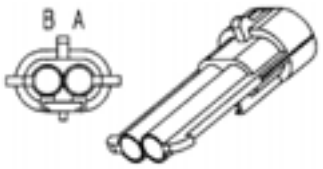
Connector 123B



256294A1

Cavity	Circuit ID	Description
B	545AB (Y) 1.0	From attachment hydraulic switch (option B)
A	546AB (LB) 1.0	From attachment hydraulic switch (option B)

Connector 123D

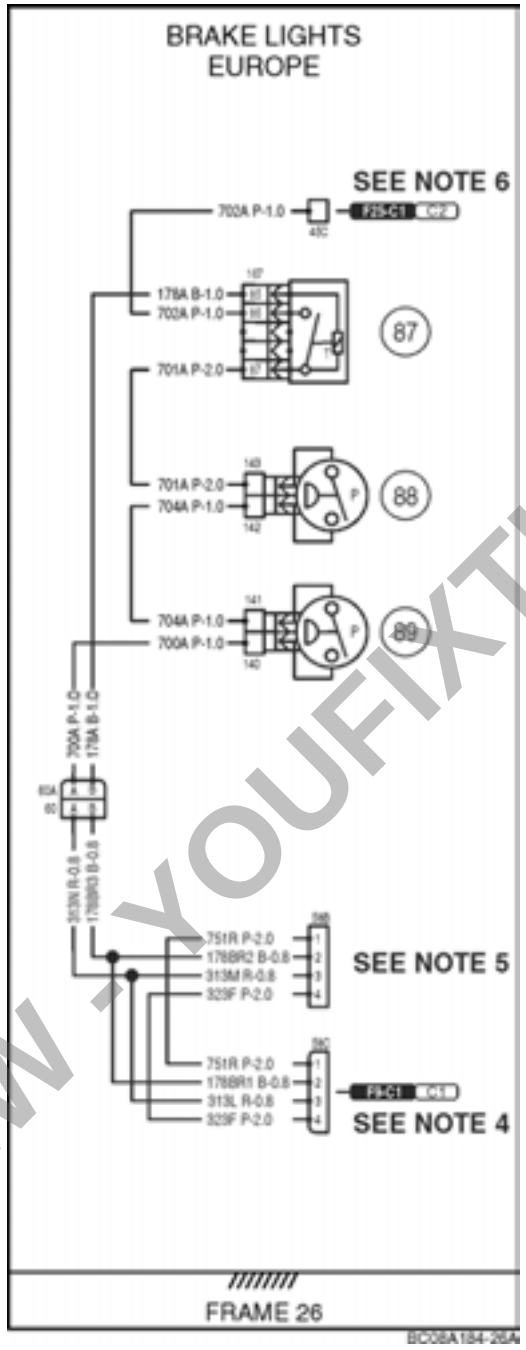


256294A1

Cavity	Circuit ID	Description
A	545AD(Y) 1.0	From attachment hydraulic switch (option D)
B	546AD (LB) 1.0	From attachment hydraulic switch (option D)

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BC08A184-26A

87. TIMER RELAY
88. BRAKE SWITCH
89. BRAKE SWITCH

430 ELECTRICAL SCHEMATIC FRAME 26 (TIER 3 AND CAB UP-GRADE MACHINES)

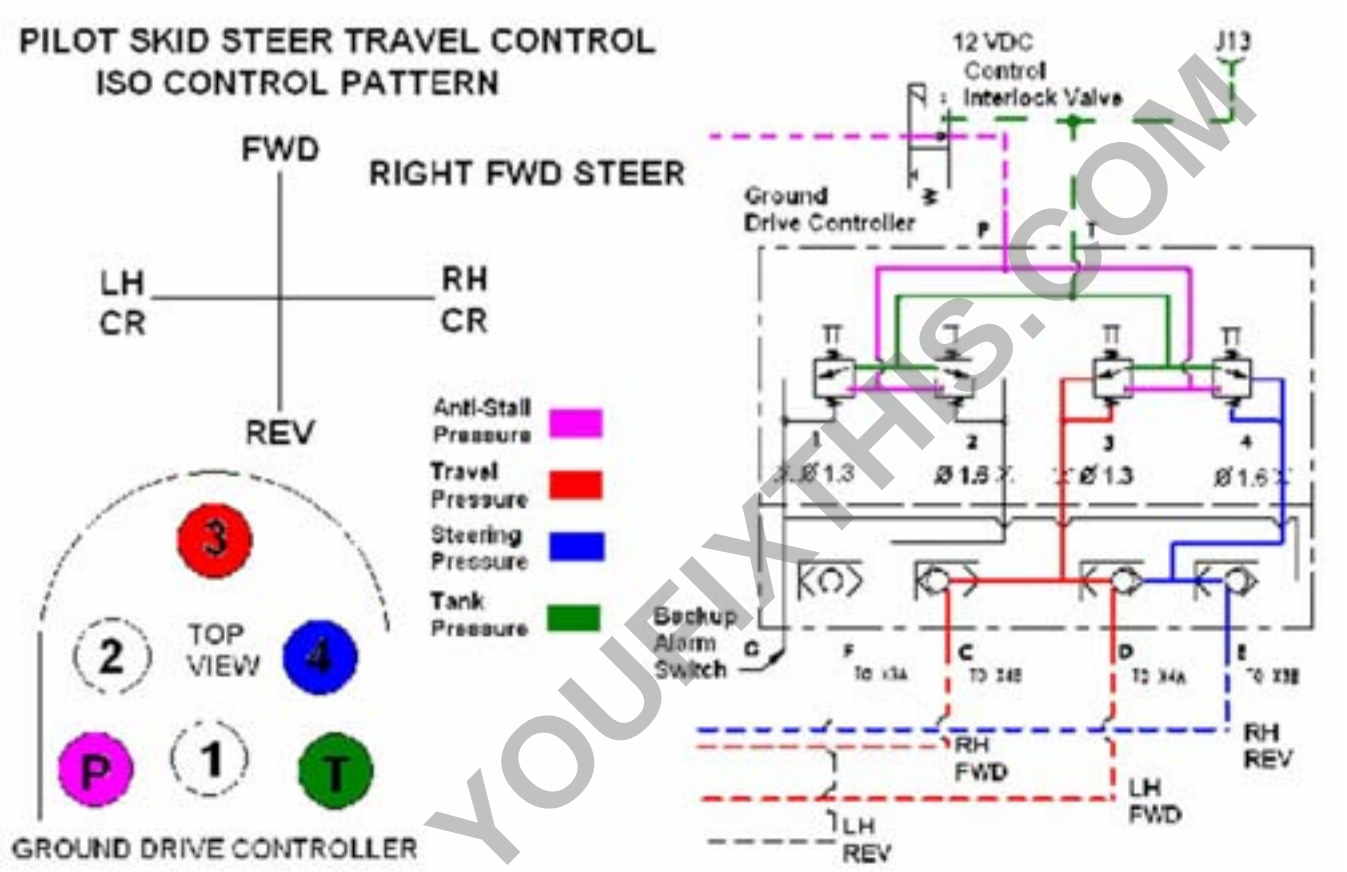
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CHARGING GUIDE FOR BATTERIES OTHER THAN MAINTENANCE FREE BATTIERES 8

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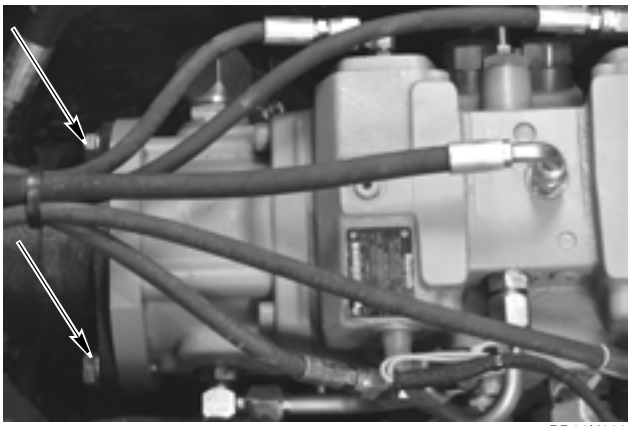


BS06K470

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STEP 14

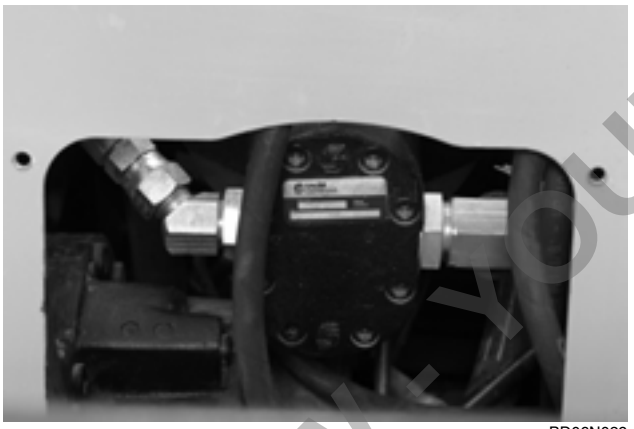


BD06N032

NOTE: *Apply Loctite No. 243 to all mounting bolts.*

Install and torque the equipment pump mount bolts and washers to a torque of 110 to 122 Nm (81-90 pound-feet).

STEP 15



BD06N029

Remove caps and plugs from all fittings and hoses. Install and tighten all hoses to the equipment pump.

STEP 16

Stop the vacuum pump. Disconnect the vacuum pump from the hydraulic reservoir. Install the reservoir cap on the reservoir filler neck.

STEP 17

Clean up any hydraulic fluid from equipment or floor.

STEP 18

Start and run the engine at low idle for two to five minutes.

STEP 19

Stop the engine.

STEP 20

Check for any leaks.

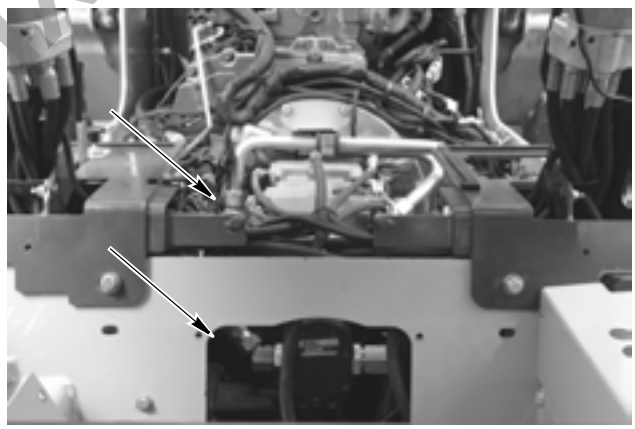
STEP 21

Check the oil level in the hydraulic reservoir and add hydraulic oil as needed.

STEP 22

Install the reservoir cap on the reservoir filler neck.

STEP 23



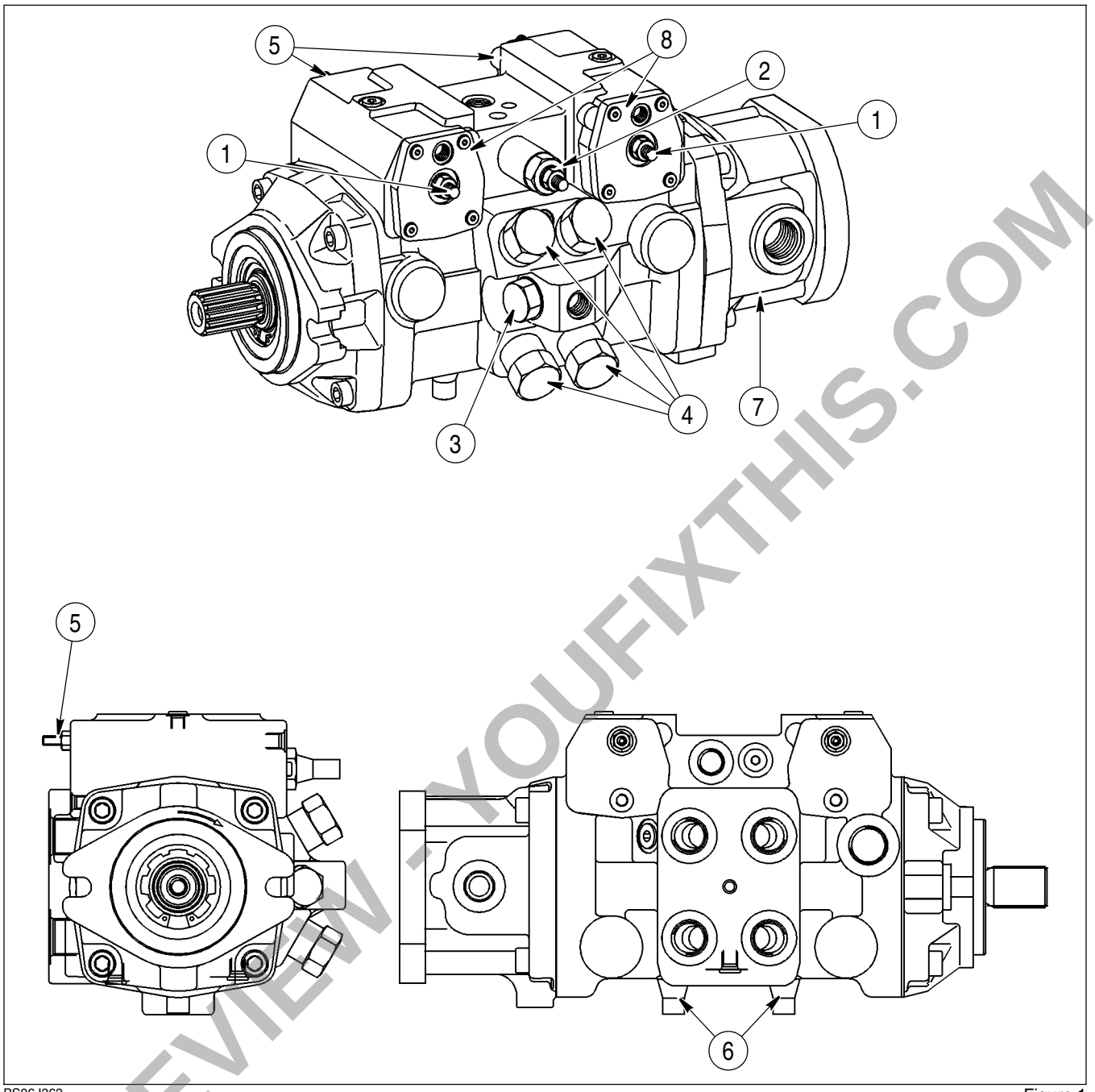
BD06N030

Install the cover panels.

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BS06J363

Figure 1

1. CENTERING ADJUSTMENT
2. CONTROL CARTRIDGE
3. LOW PRESSURE VALVE
4. HIGH PRESSURE VALVE
5. MECHANICAL STROKE LIMITER
6. TIMING ADJUSTMENT SCREW
7. INNER GEAR PUMP
8. HYDRAULIC CONTROL

AA20/AA22 VARIABLE AXIAL PISTON PUMP

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STEP 61



BD04E006

Install the disc spring on top of the piston.

STEP 62



BD04E005

Install the gasket on the brake housing.

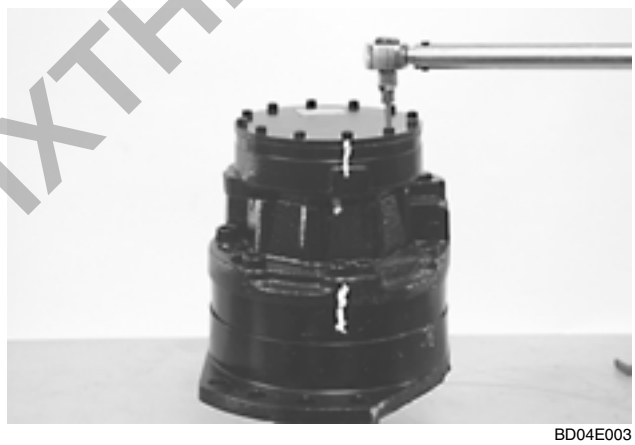
STEP 63



BD04E004

Install the cover plate onto the brake housing.

STEP 64



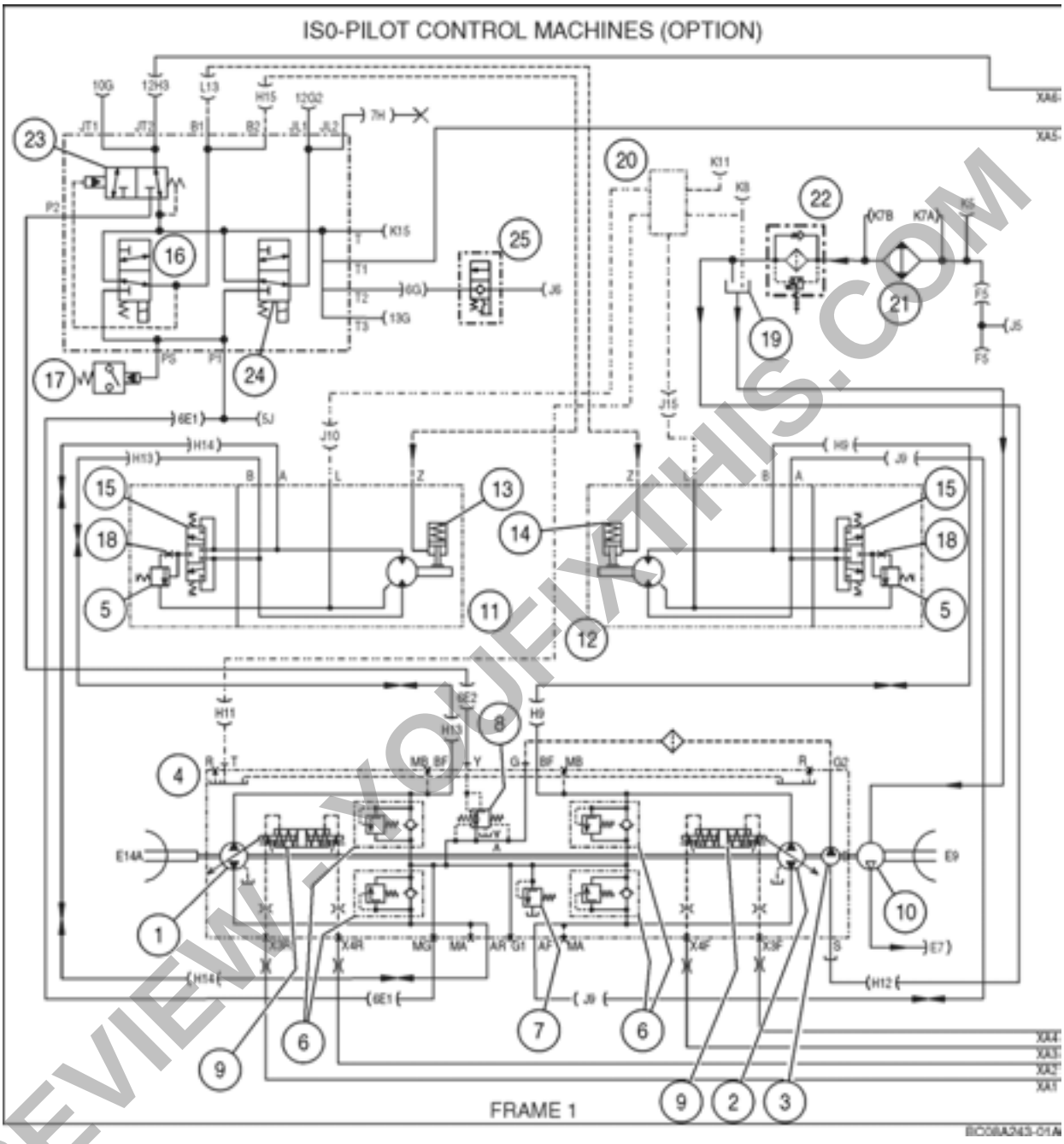
BD04E003

Install the socket head cap screws into the cover plate. Tighten the socket head cap screws alternately from side to side to a torque of 14 to 16 Nm (10 to 12 pound feet).

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BC08A243-01A

1. LEFT PISTON PUMP
2. RIGHT PISTON PUMP
3. CHARGE PUMP
4. HYDROSTATIC PUMP
5. CIRCUIT RELIEF VALVE
6. HIGH PRESSURE RELIEF VALVE
7. CONTROL CARTRIDGE
8. BOOST VALVE
9. SERVO PISTON
10. HYDRAULIC PUMP
11. LEFT DRIVE MOTOR
12. RIGHT DRIVE MOTOR
13. LEFT BRAKE
14. RIGHT BRAKE
15. FLUSHING VALVE
16. BRAKE SOLENOID VALVE
17. CHARGE PRESSURE SWITCH
18. SHUT-OFF PLUG
19. HYDRAULIC RESERVOIR
20. DRAIN MANIFOLD
21. . OIL COOLER
22. . OIL FILTER BYPASS VALVE
23. GROUND DRIVE CONTROLLER
24. LOADER INTERLOCK
25. MANUAL BOOM LOWERING VALVE

HYDRAULIC SCHEMATIC FRAME 1 (ISO- PATTERN PILOT CONTROL MACHINES)

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STEP 31



GD98J802

Install washers and socket bolts and tighten socket bolts to a torque of 34 Nm (301 pound-inches).

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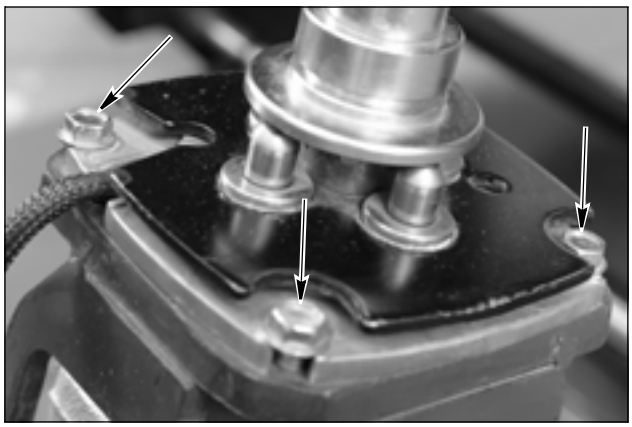
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RIGHT PILOT CONTROL VALVE (MACHINES EQUIPPED WITH PILOT CONTROLS)

Installation

STEP 14



BD06N014

Install pilot controller into the mount.

STEP 15

Install and tighten the bolts to secure the pilot controller to the mount.

STEP 16

Start the vacuum pump.

STEP 17



BD06N011

Remove caps and plugs from all fittings. Install the hoses in the correct locations on the controller and tighten all hoses.

STEP 18

Stop the vacuum pump.

STEP 19

Disconnect the vacuum pump from the hydraulic reservoir.

STEP 20

Check the oil level in the hydraulic reservoir and add hydraulic oil as needed.

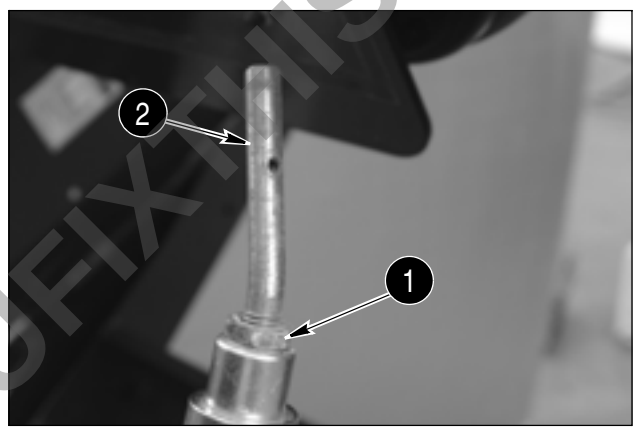
STEP 21

Clean up any hydraulic fluid from the equipment or floor.

STEP 22

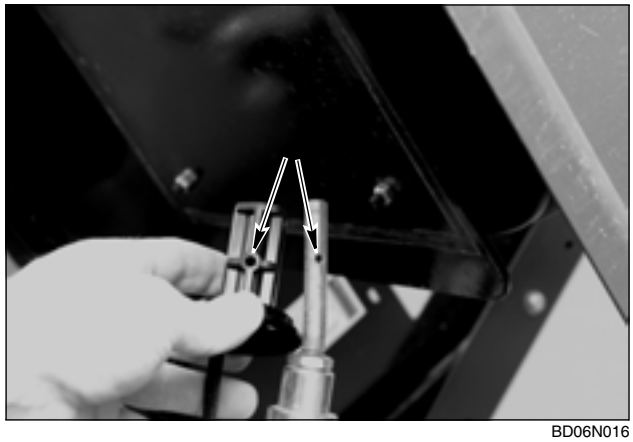
Install the reservoir cap on the reservoir filler neck.

STEP 23



BD06N013

Install the rod assembly, (2) temporarily. Place the bend in the rod towards the center of the machine. Temporarily snug down the jam nut, (1).



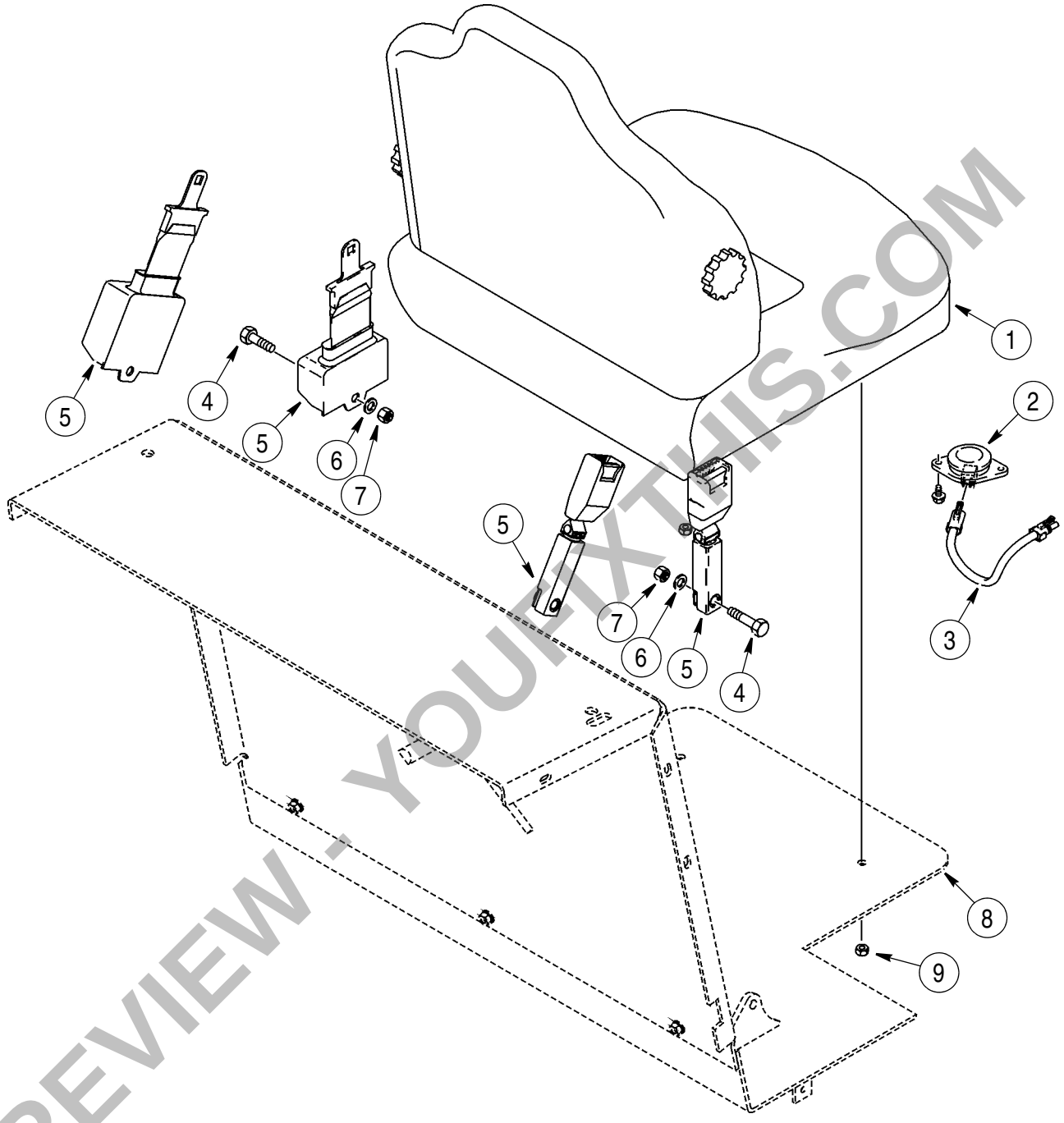
BD06N016

NOTE: *Rod height adjustment may be required to align the screw holes between the handle adapter and the rod assembly.*

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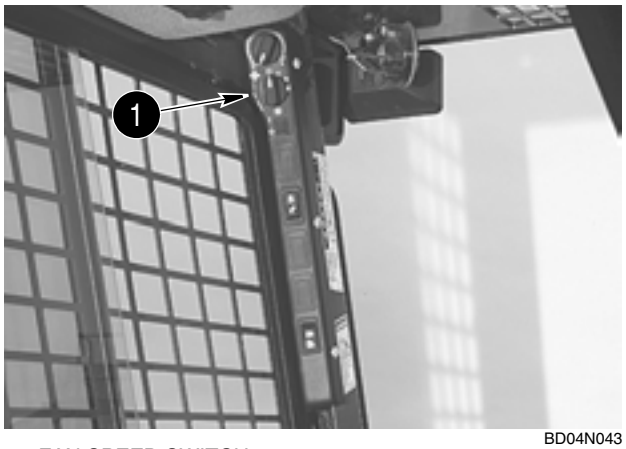
1. SEAT
2. SWITCH
3. HARNESS
4. BOLT
5. SEAT BELT
6. WASHER
7. LOCK NUT
8. SEAT PLATE
9. LOCK NUTS

SUSPENSION SEAT MOUNTING (IF EQUIPPED)

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BLOWER MOTOR AND COMPRESSOR CLUTCH CHECK (CONTINUED)



BD04N043

1. FAN SPEED SWITCH

The following is a list of the terminals on the fan speed switch.

1. “B” Battery - power from fuse block.
2. “L” Low Speed - to blower motor resistor.
3. “M” Medium Speed - to blower motor resistor.
4. “H” High Speed - to blower motor.

Fan Speed Switch

Check the switch operation. The switch must give three different fan speeds - Low (I), Medium (II), and High (III).

Yes ↓

Check for loose connections or wires that have damage. Repair or replace wires as necessary.

Yes ↓

The fan speed switch is connected to the fan motor through a resistor on low and medium speed. See Section 4001 in this manual for fan speed switch troubleshooting to test the high speed switch position.

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NOTE: CNH America LLC reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

SPECIFICATIONS

Air Conditioning System Refrigerant (ALL MODELS) (Type R134a)

Refrigerant Charge Capacity .....2 pounds + 1.25 ounces (34 ounces)

Air Conditioning System Refrigerant Oil (Type PAG)

Capacity.....6.8 ounces

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