GENERAL SPECIFICATIONS

Capacities

Engine Crank Case Capacity	29 liters	7.7 US gallons
Engine Cooling System	49 liters	13 US gallons
Fuel Tank	650 liters	172 US gallons
Hydraulic Oil Tank Capacity	210 liters	55.5 US gallons
Total Hydraulic System Capacity	450 liters	119 US gallons
Final Drive Case Capacity	7 liters	1.8 US gallons
Swing Drive Case Capacity	21 liters	5.5 US gallons
Track Front Idlers	960 to 980 cc	31.7 to 32.3 oz
Track Lower Rollers	530 to 540 cc	17.5 to 17.8 oz
Track Upper Roller	690 to 700 cc	22.8 to 23.1 oz

NOTE: ***These capacities are only a guide to the quantities. Always use the dipstick, sight gauges or level plug to make sure that fluid levels are correct.***

Drawbar Pull

Drawbar Pull	32195 kg	70989 lb

Drive Speed

Drive Speed: High	5.0 km/h	3.1 mph
Drive Speed: Middle	3.1 km/h	1.9 mph
Drive Speed: Low	2.2 km/h	1.4 mph

Electrical System

Type of System	24 volts negative ground
Alternator	
Manufacturer	Mitsubishi Electric Corp.
Output	40 amperes
Batteries	
Number of batteries required	2
Voltage of each battery	12 volts
Reserve capacity	160 minutes
Cold cranking capacity at -17°C (0°F)	800 amperes
Load for capacity (load) test	400 amperes
Starter Motor	
Manufacturer	Mitsubishi Electric Corp.
Voltage	24 volts

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ENGINE

Removal

NOTE: *Make sure engine is cool before starting removal procedures.*

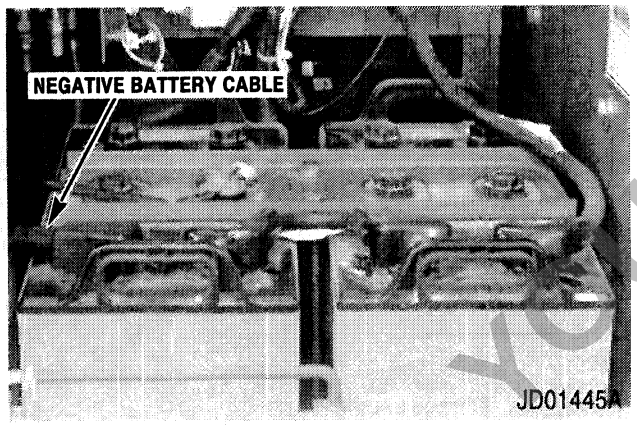
STEP 1

Remove the hydraulic pump (see Section 8002).

STEP 2

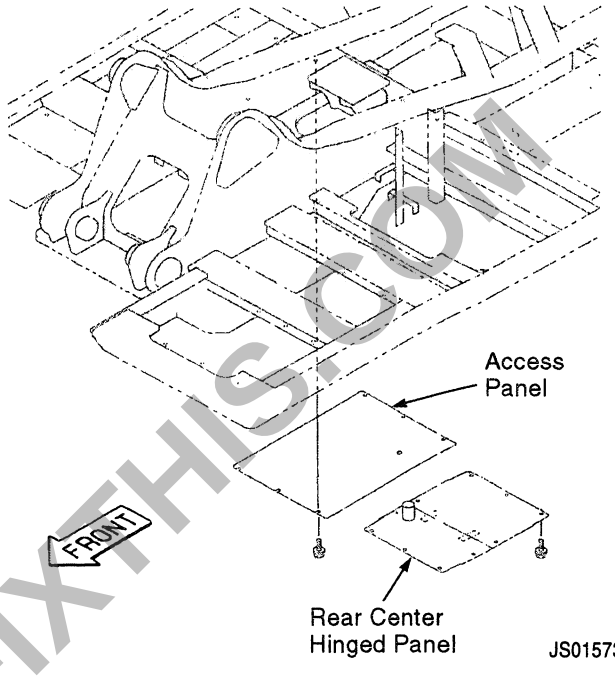
Remove the radiator, oil cooler, and the cooling system reservoir (see Section 2001).

STEP 3



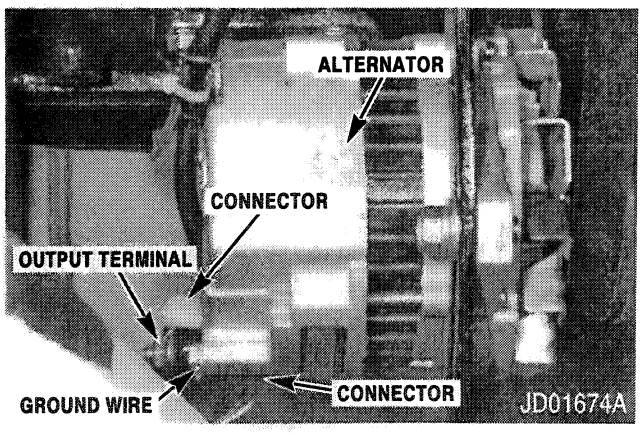
Open the left side access doors. Disconnect the negative battery cable from the battery.

STEP 4



Remove the bottom right rear access panel. Remove the five cap screws securing the rear center hinged panel below the engine. Swing the panel down for access to the engine two left mounts.

STEP 5



Tag and disconnect the two wiring harness connectors and the ground wire from the alternator. Tag and disconnect the wiring harness wire connected to the alternator output terminal.

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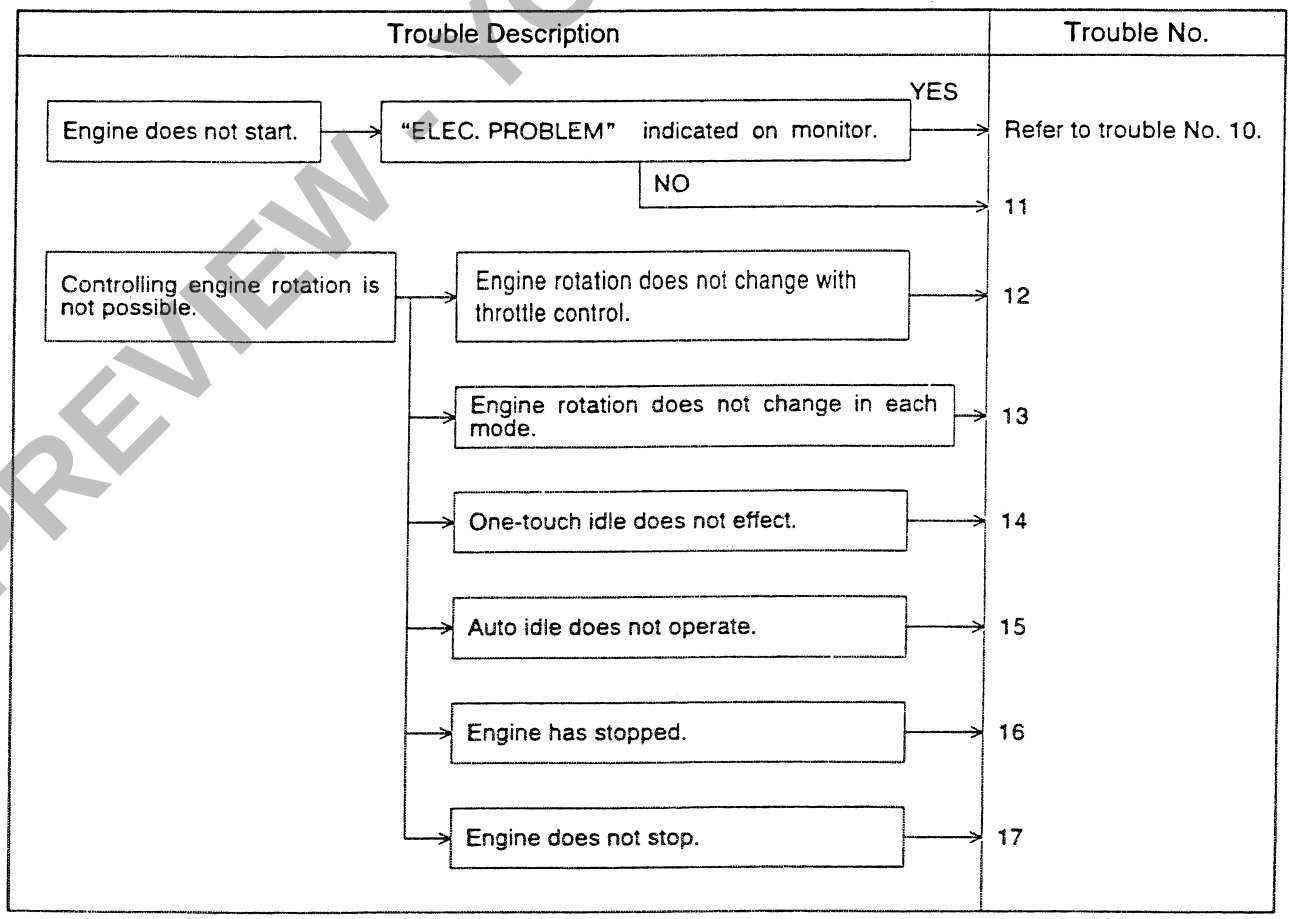
TROUBLESHOOTING

a. The following explains how to troubleshoot in the event that the message does not go out even though suitable measures are taken to correct the warning message.

Mark	Message Display	Trouble Description	Trouble No.
	Engine emergency stop	Engine emergency stop (emergency stop switch "ON" is displayed.	1
	Refuel	Fuel amount indicated is low. Check, and supply fuel.	2
	Refill coolant	Refill coolant level if low.	3
	Replenish battery fluid	Battery fluid level indicated is low. Check, and replenish battery fluid.	4
	Air cleaner clogged	Air cleaner element is clogged. Wash or replace element.	5
	Engine oil pressure low	Pressure of engine oil low. Check engine oil quantity, and replenish if low.	6
	Over heat	Engine coolant or hydraulic oil temperature is high. Run engine at low idle to lower the water or oil temperature. (Check radiator, and clean it.)	7
	Battery charging deficient	Abnormal charging system is displayed. Check the electrical circuit.	8
	Electrical system problem	Abnormal electrical system (ELEC> problem) is displayed. Check the electrical circuit.	9
	Engine filter clogged	Engine oil filter clogged. Replace engine oil filter. (When replacing engine oil filter, also replace engine oil.)	10

b. This explains how to troubleshoot when an operation is not indicated on a message, but it does not operate normally.

1) Engine control area



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TORQUE TABLE

Tighten cap screws and nuts according to the table below if there are no other special instructions.

Cap Screw Name Size (Size)			M6	M8	M10	M12	M14	M16	M18	M20
Cap Screw	Spanner	[mm]	10	13	17	19	22	24	27	30
		[in.]	0.39	0.51	0.67	0.75	0.87	0.95	1.06	1.18
	Tightening torque	[Nm]	6.9	15.7	32.3	58.8	98.0	137.2	196.0	274.0
		[lb-ft]	5.1	11.6	23.9	43.4	72.3	101.2	144.6	202.4
Socket Head Cap Screw	Spanner	[mm]	5	6	8	10	12	14	14	17
		[in.]	0.20	0.24	0.32	0.39	0.47	0.55	0.55	0.67
	Tightening torque	[Nm]	8.8	21.6	42.1	78.4	117.6	176.4	245.0	343.0
		[lb-ft]	6.5	15.9	31.1	57.8	86.8	130.1	180.8	253.1

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ITEM	DESCRIPTION
1.	LIGHTER
2.	SPEAKER
3.	ANTENNA
4.	RADIO
5.	CONTROLLER
6.	FUSE BOX
7.	CONSOLE (LEFT HAND)
8.	SWITCH, HEAT START
9.	LIMIT SWITCH (GATE)
10.	LIMIT SWITCH (CONSOLE)
11.	HORN
12.	CONSOLE (RIGHT HAND)
13.	SWITCH, ONE TOUCH IDLE
14.	TRAVEL SPEED SSELECTOR
15.	DISPLAY MONITOR
16.	THROTTLE MOTOR DRIVER
17.	KEY SWITCH
18.	RELAYS (11 INTERCHANGEABLE)
19.	HEATER
20.	FAN (CAB)
21.	FAN SWITCH (CAB)
22.	FUSE (25AMP) AIR CONDITIONER
23.	WIPER MOTOR DIODE
24.	WIPER MOTOR
25.	AUXILIARY SWITCH
26.	AC MAGNET DIODE
27.	CUSHER PILOT PRESSURE
28.	8 SOLENOID VALVE BANK
29.	SWING BRAKE RELEASE SOLENOIDS
30.	FREE SWING VALVE
31.	CLUTCH SWITCH
32.	MAGNET CLUTCH
33.	BUZZER
34.	WASHER MOTOR DIODE
35.	WASHER MOTOR
36.	HORN
37.	HORN
38.	WORK LAMP UPPER
39.	WORK LAMP BOOM
40.	HYDRAULIC PUMP CONTROL
41.	THERMO SWITCH, ETHER
42.	ETHER START DIODE
43.	BOOM PRIORITY
44.	THROTTLE MOTOR
45.	FUSE (25AMP) KEY SWITCH BACK UP
46.	BATTERY LEVEL SENSOR
47.	BATTERY
48.	BATTERY
49.	MAIN 65A
50.	BATTERY RELAY
51.	FUSE (25AMP) SHUT DOWN
52.	ENGINE
53.	SAFETY RELAY
54.	STARTER RELAY
55.	ETHER START SOLENOID
56.	ETHER START
57.	POWER BOOST
58.	WATER TEMP SENSOR
59.	ENGINE STOP
60.	HYD OIL TEMP SENSOR
61.	FUEL LEVEL SENSOR
62.	THERMO SWITCH (HYDRAULIC)
63.	COOLANT LEVEL
64.	AIR FILTER VACUUM SENSOR
65.	AIR PRESSURE SUMP TANK
66.	BOOM PILOT PRESSURE (BOOM DOWN)
67.	SWING PILOT PRESSURE SWITCH
68.	TRAVEL PILOT PRESSURE SWITCH
69.	UPPER PILOT PRESSURE SWITCH
70.	BOOM PILOT PRESSURE (BOOM UP)

CONNECTOR LOCATION ON BACK OF CONTROLLER

LEGEND

- CONNECTED
- NOT CONNECTED
- BOOT GROUND
- CABLE GROUND
- SINGLE WIRE CONNECTOR
- HARNESS
- CONNECTOR (FEMALE)
- CONNECTOR (MALE)
- INDICATES COLOR BAND ON LINE
- INDICATES CONSTANT POWER
- INDICATES POWER WHEN KEY SWITCH IS ON

CONNECTOR NUMBER (OUTSIDE CAB) — CN12 (R) — COLOR OF CONNECTOR (IF NOT INDICATED COLOR IS WHITE)

CONNECTOR LETTER LOCATED (IN CAB)

60 B 001 — AREA COLOR — CIRCUIT NUMBER

TABLE OF COLOR SYMBOLS

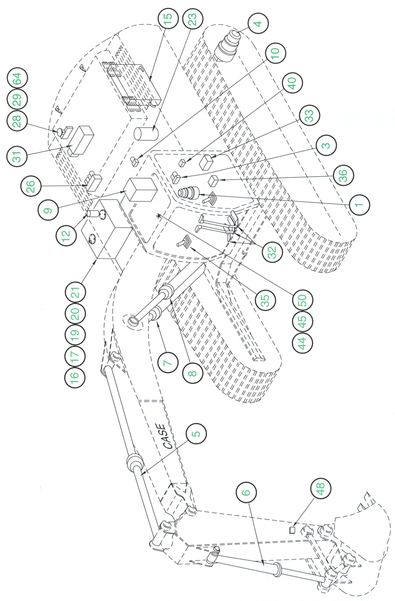
SYMBOL	COLOR
B	BLACK
W	WHITE
Br	BROWN
P	PINK
V	VIOLET
G	GREEN
O	ORANGE
R	RED
Y	YELLOW
Lg	LIGHT GREEN
Sb	SKY BLUE
L	BLUE
Gr	GRAY

NOTE:
1. "BR" INDICATES BLACK CABLE WITH RED STRIPE.
2. WATERPROOF CONNECTORS USED OUTSIDE OF CAB.

9060B, EXCAVATOR ELECTRICAL SCHEMATIC

Part Number 7-15330

9060B EXCAVATOR
HYDRAULIC / ELECTRICAL
SCHEMATIC



ITEM	DESCRIPTION
1	SWING MOTOR
2	SWIVEL
3	SWING BRAKE RELEASE
4	MOTOR, TRAVEL
5	MOTOR, TRAVEL
6	CYLINDER, BOOM
7	CYLINDER, BOOM
8	VALVE, CONTROL
9	VALVE, CONTROL
10	SOLENOID, FREE SWING
11	ARM OUT PILOT CONTROL VALVE
12	CASE DRAIN FILTER
13	VALVE, RETURN PRESSURE
14	POWER BOOST
15	HYDRAULIC OIL COOLER
16	DRAIN VALVE
17	STRAINER
18	FILTER
19	RESERVOIR
20	RELIEF VALVE, FILTER BYPASS
21	FILTER, RETURN
22	FILTER, PILOT
23	FILTER, ULTRA FINE
24	PRESSURE SWITCH, TRAVEL
25	PRESSURE SWITCH, UPPER
26	SHUTTLE VALVE, PUMP DESTROKE
27	ACCUMULATOR
28	NITROGEN ACCUMULATOR
29	MANIFOLD, PILOT
30	FILTER, PILOT
31	PUMP, HYDRAULIC
32	TRAVEL CONTROLS
33	SWING PRESSURE SWITCH
34	VALVE, HAND CONTROL BOOM/SWING
35	VALVE, HAND CONTROL ARM/BKT
36	NEUTRAL PUMP DESTROKE
37	RESERVOIR RELIEF VALVE
38	STRAIGHT TRAVEL
39	MANIFOLD, CTWT
40	BOOM CONTROL SHUTTLE VALVE
41	BRAKE
42	SWING PRESSURE REGULATOR
43	RETURN FILTER
44	SOLENOID, 8
45	SINGLE PEDAL
46	AUXILIARY PILOT PRESSURE
47	AUXILIARY SHUT OFF VALVE
48	MAIN RELIEF
49	RESERVOIR RELIEF VALVE
50	AIR TANK DRAIN VALVE
51	VALVE, BOOM HOLDING
52	VALVE, ARM HOLDING
53	AIR TANK
54	RESERVE TANK RELIEF VALVE
55	GOVERNOR REGULATOR
56	RESERVOIR CHECK VALVE
57	AIR SYSTEM CHECK VALVE
58	PRESSURE SWITCH, BOOM UP
59	PRESSURE SWITCH, BOOM DOWN
60	PILOT CONTROL RELIEF VALVE
61	COUNTERWEIGHT CYLINDERS
62	COUNTERWEIGHT CONTROL
63	COUNTERWEIGHT MANIFOLD
64	COUNTERWEIGHT SHUTTLE VALVES
65	COUNTERWEIGHT SHUTTLE VALVE
66	COUNTERWEIGHT CYL SOLENOID VALVE
67	CTWT HAND CONTROL
68	CTWT CYLINDERS
69	CTWT SOLENOID VALVES
70	CTWT MANIFOLD
71	CTWT COUNTERWEIGHT MANIFOLD
72	CTWT COUNTERWEIGHT SOLENOID VALVE

LEGEND

- PUMP 1
- PUMP 2
- PILOT PUMP
- RETURN TO TANK
- DRAIN LINE
- WORKING LINE
- PILOT LINE
- SWING PRESSURE
- VARIABLE PRESSURE
- STRAIGHT TRAVEL
- ENCLOSURE LINE
- FLEX HOSE IN LINE
- INDICATES COLOR BAND ON ELECTRICAL SOLENOID WIRES
- CONNECTED
- NOT CONNECTED
- INDICATES ITEM NUMBER
- UPPER VALUE INDICATES ITEM NUMBER
- LOWER VALUE INDICATES VALVE PORT NUMBER

9060B EXCAVATOR
HYDRAULIC SCHEMATIC
Part Number 7-15330

LOCTITE PRODUCT CHART

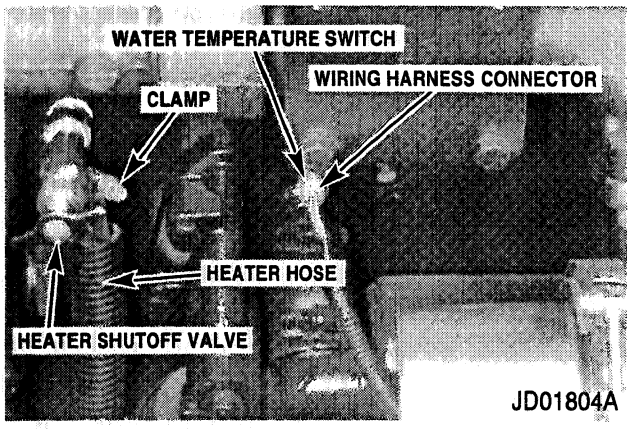
Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
518	Red	515	0.030	500psi	-65 to +300	1hr/24 hrs	764	Gasket Eliminator 518 for Aluminum
542	Brown	569	N/A	132/92 in lbs	-65 to +300	2 hr/24 hrs	747	Hydraulic Sealant
545	Purple		N/A	25/20 in lbs	-65 to +300	4 hr/24 hrs	747	Low Strength Pneumatic/Hydraulic Sealant
549	Orange	504	0.020	2500 psi	-65 to +300	2 hr/24 hrs	747	Instant Seal Plastic Gasket
554	Red	277	0.015	240/240 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Refrigerant Sealant
567	White	592	N/A	500 psi	-65 to +400	4 hrs/24 hrs	764	Pipe Sealant for Stainless Steel
568	Orange	277	0.015	2500 psi	-65 to +300	12 hrs/24 hrs	764	Plastic Gasket
569	Brown	545	0.010	40/25 in lbs	-65 to +300	1 hr/24 hrs	764	Hydraulic Sealant
570	Brown	592	N/A	25/40 in lbs	-65 to +300	6 hrs/72 hrs	764	Steam Sealant
571	Brown	592	0.015	40/20 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Pipe Sealant
572	White	578.575	N/A	80/27 in lbs	-65 to +300	24 hrs/72 hrs	None	Gasketing
592	White		0.020	500 psi	-65 to +400	4 hrs/72 hrs	736	Pipe Sealant with Teflon
593	Black		0.250	400 psi	-95 to +400	30 min/24 hrs	N/A	RTV Silicone
601	Green	609	0.005	3000 psi	-65 to +300	10 min/24 hrs	764	Current PIN #609
609	Green		0.005	3000 psi	-65 to +300	10 min/24 hrs	764	General Purpose Retaining Compound
620	Green	640	0.015	3000 psi	-65 to +450	30 min/24 hrs	747	High Temperature Retaining Compound
635	Green	680	0.010	4000 psi	-65 to +300	1 hr/24 hrs	747	High Strength Retaining Compound
638	Green	680	0.015	4100 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
640	Green	620	0.007	3000 psi	-65 to +400	1 hr/24 hrs	747	High Temperature Retaining Compound
660	Silver		0.020	3000 psi	-65 to +300	20 min/24 hrs	764	Quick Metal
675	Green	609	0.005	3000 psi	-65 to +300	20 min/24 hrs	747	General Purpose Retaining Compound
680	Green	635	0.015	4000 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
706	Clear	755	N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
707	Amber		N/A	N/A	N/A	N/A	N/A	Activaltor for Structural Adhesives
736	Amber		N/A	N/A	N/A	N/A	N/A	Primer NF
738	Amber		N/A	N/A	N/A	N/A	N/A	Depend Activator
747	Yellow	N/A	N/A	N/A	N/A	N/A	N/A	Primer T
751	Clear		N/A	N/A	N/A	N/A	N/A	Activator for Structural Adhesives
755	Clear		N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
764	Green		N/A	N/A	N/A	N/A	N/A	Primer N
767	Silver		N/A	N/A	-65 to +1600	N/A	N/A	Anti-Seize Lubricant

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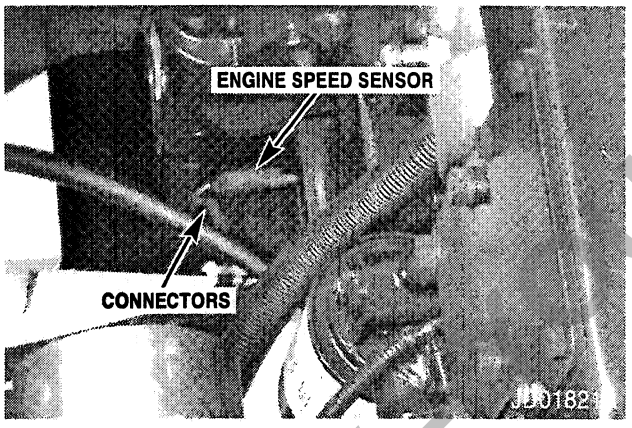
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STEP 12



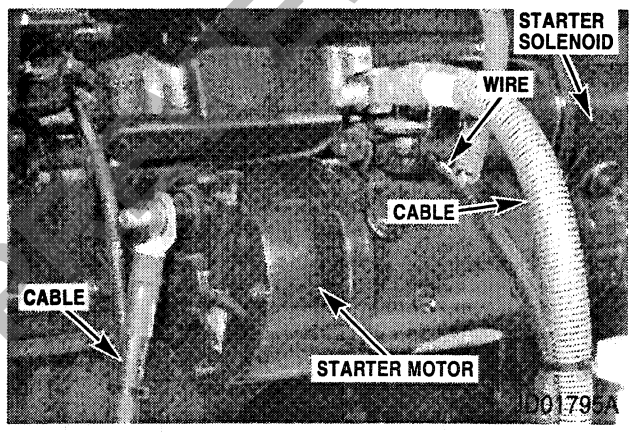
Install identification tags on the heater hose and the wiring harness connector. Loosen the clamp and disconnect the heater hose from the heater shutoff valve. Disconnect the wiring harness connector from the water temperature switch.

STEP 13



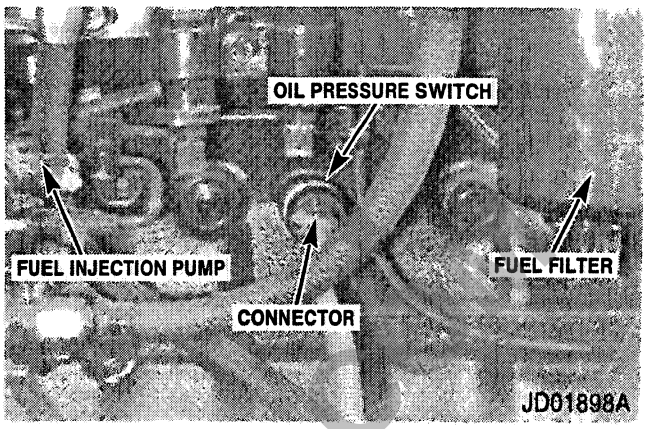
Tag and disconnect the engine speed sensor connector from the wiring harness connector.

STEP 14



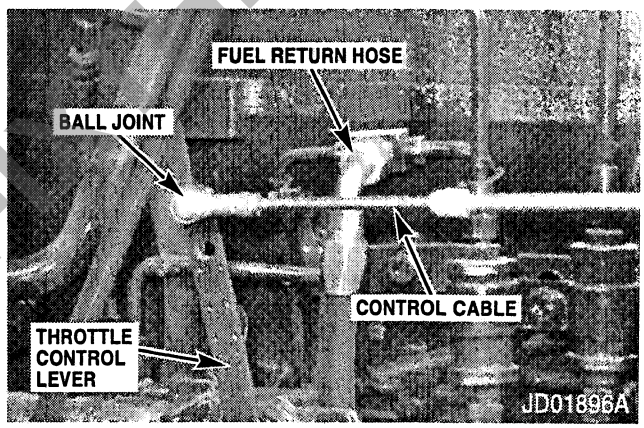
Tag and disconnect the cable and the wiring harness wire from the starter solenoid. Tag and disconnect the cable from the rear terminal of the starter motor.

STEP 15



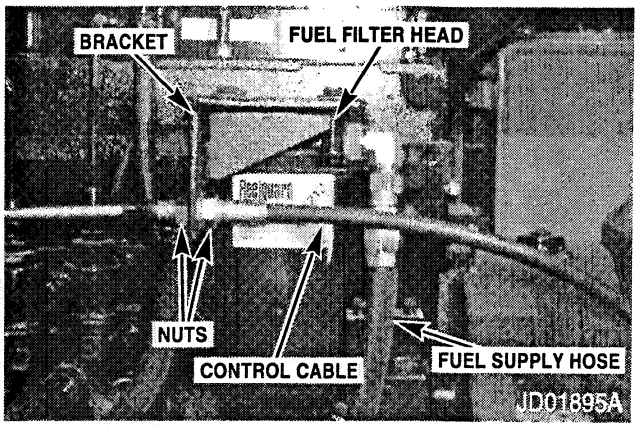
Tag and disconnect the wiring harness connector from the oil pressure switch.

STEP 16



Remove the nut and lock washer securing the control cable ball joint to the fuel injection pump throttle control lever. Disconnect the ball joint. Tag and disconnect the fuel return hose from the engine fuel return line.

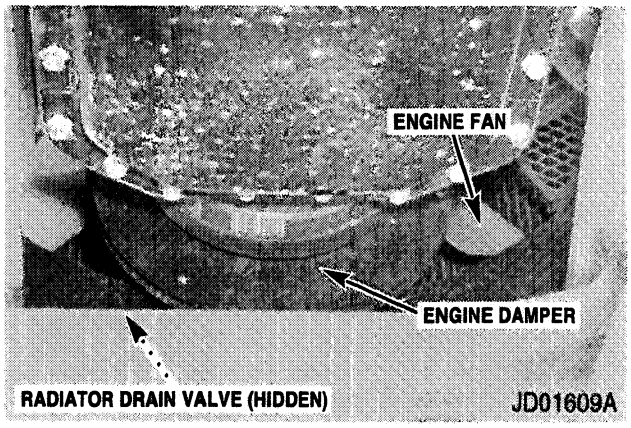
STEP 17



Loosen the two nuts securing the control cable to the bracket. Remove the control cable from the bracket. Tag and disconnect the fuel supply hose from the fuel filter head.

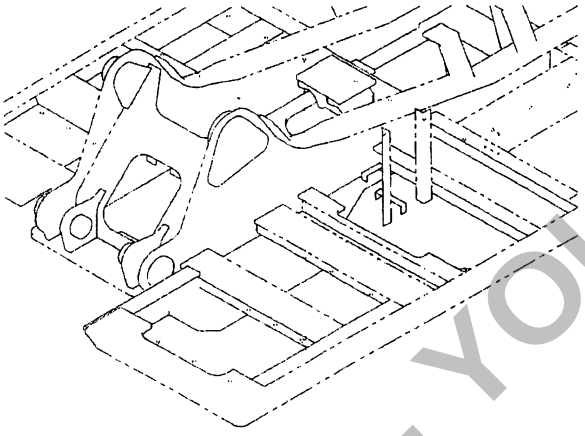
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STEP 10



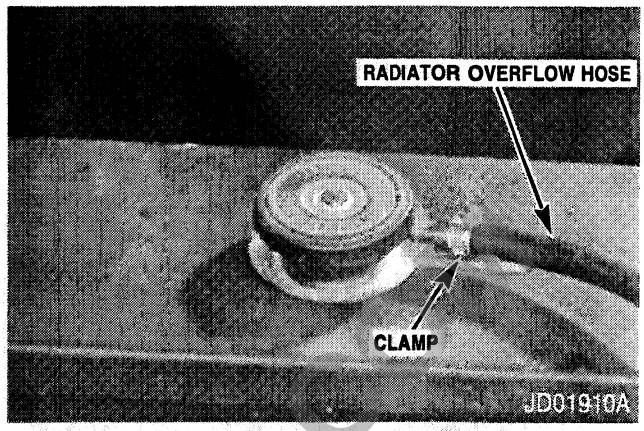
In the area beneath the engine where the rear center hinged panel has been dropped, reach up and close the radiator drain valve.

STEP 11



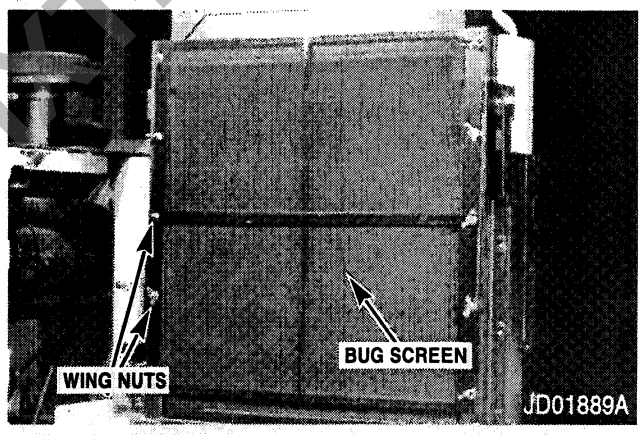
Swing the rear center hinged panel below the engine upward. Secure the panel using the five cap screws.

STEP 12



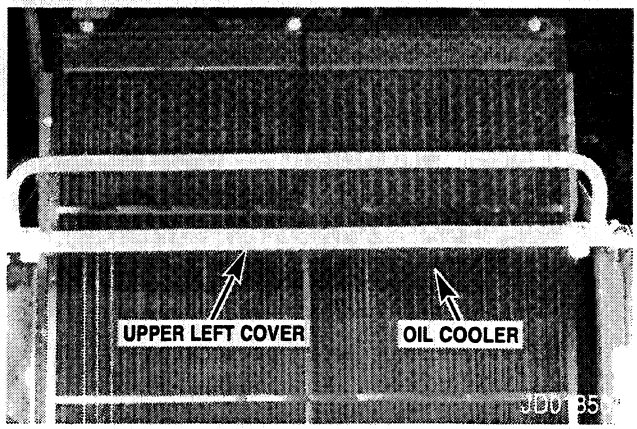
Connect the radiator overflow hose to the radiator and tighten the clamp. Fill the radiator with a solution of 55% ethylene glycol and 45% water. The coolant capacity is 13 gallons (49 liters).

STEP 13



Install the bug screen on the radiator and secure using the ten flat washers and wing nuts.

STEP 14

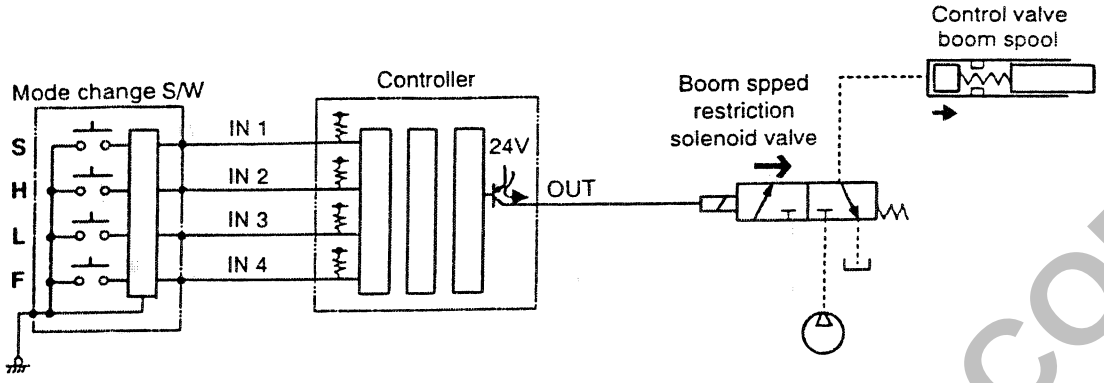


Install the upper left cover on the machine and secure using the four flat washers and cap screws.

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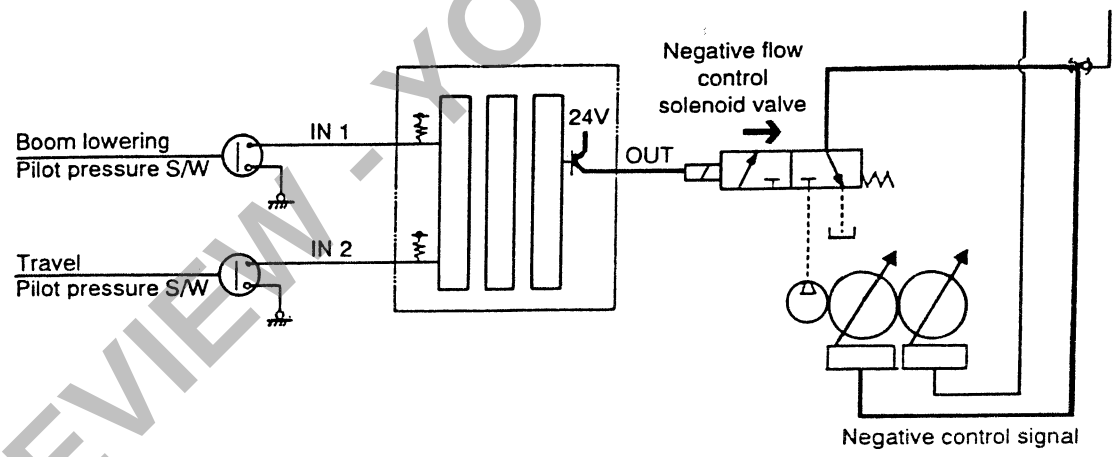
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BOOM LOWERING SPEED REGULATION



- Boom lowering speed regulation is activated only in the L, and F mode.
- In changing to L, F mode, a transistor in the controller turns ON, and a solenoid valve switches. Pilot pressure is sent to the raising side of the control valve boom spool and movement of the spool is regulated.

SHOCKLESS BOOM STARTING



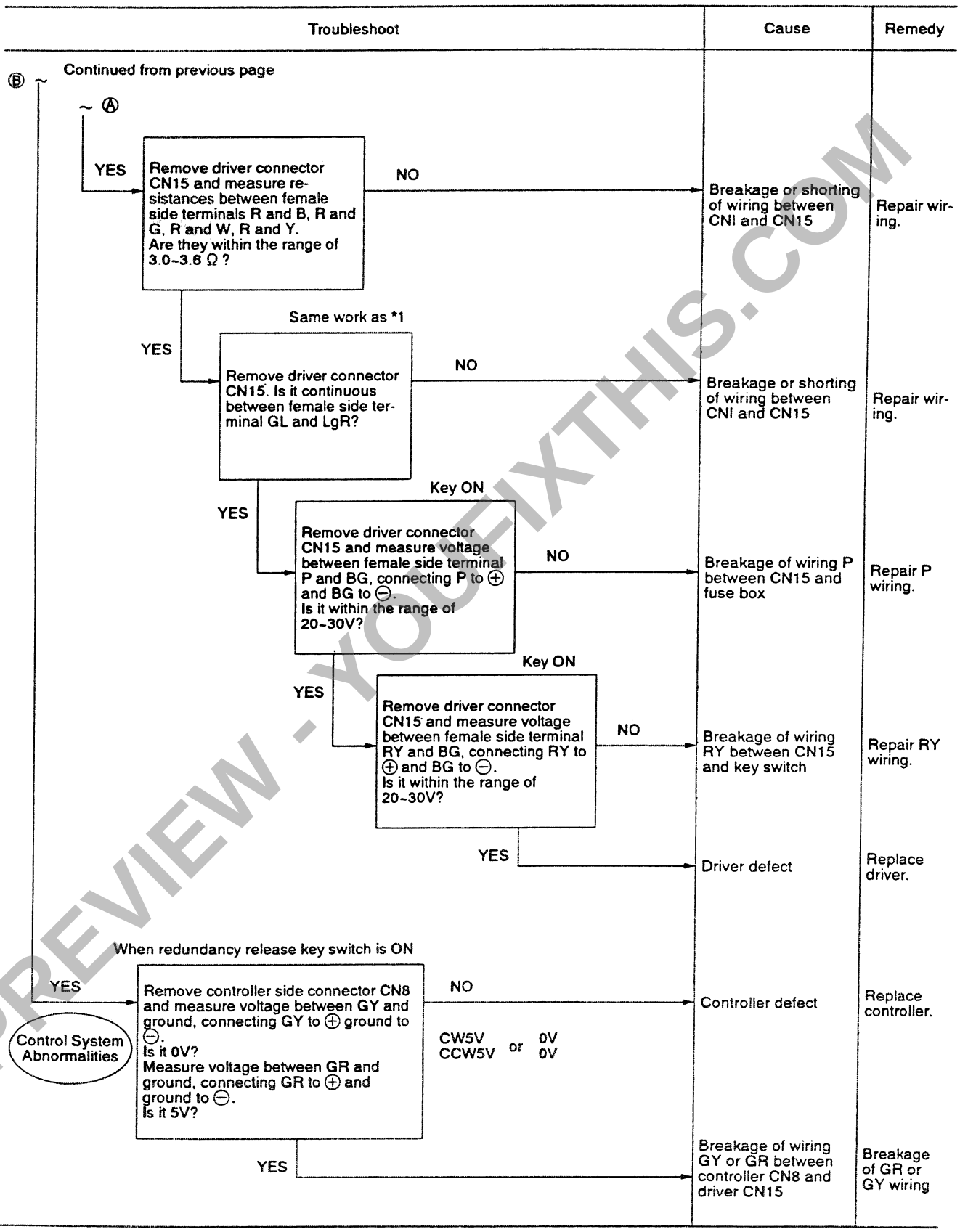
When the boom lowering pressure S/W turns ON, the solenoid valve switches for 0.4 second. Pilot pressure is sent to the negative control signal port of the pump, and it becomes a negative control flow rate.

NOTE: *This function will not occur when the machine is traveling.*

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ELECTRICAL SYSTEM TROUBLESHOOTING

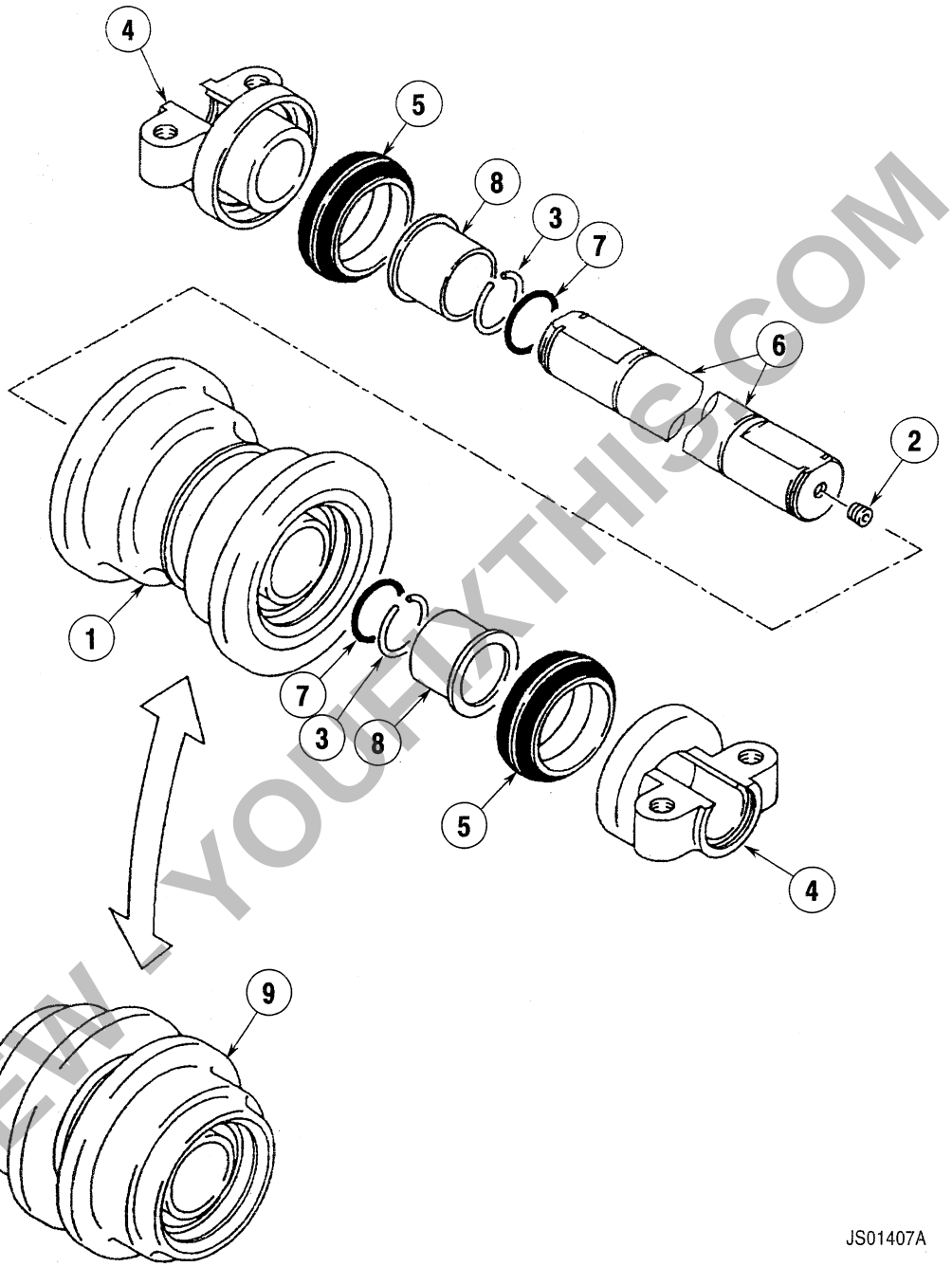


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Assembly



Track Roller

1. *Track Roller (Outside)*
2. *Drain Plug*
3. *Retaining Ring*
4. *Bracket*
5. *Face Seal*
6. *Shaft*
7. *O-ring*
8. *Bushing*
9. *Track Roller (Inside)*

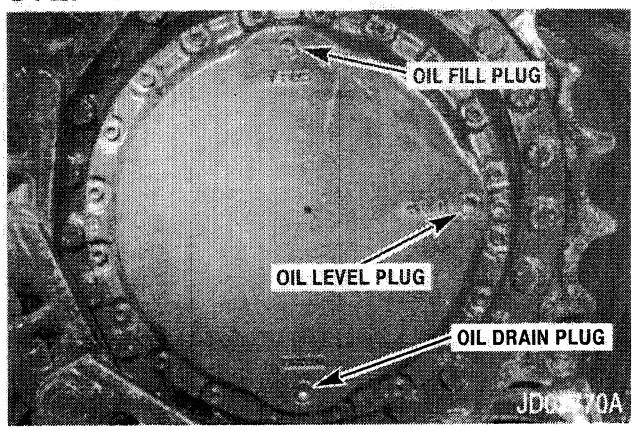
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DRIVE MOTOR

Removal

STEP 1



Remove the oil fill plug, oil level plug and oil drain plug and drain the oil.

NOTE: *When draining oil, wait until all parts have cooled.*

STEP 2

Wrap Teflon tape on the drain plug and install it. Install the oil level plug and oil fill plug.

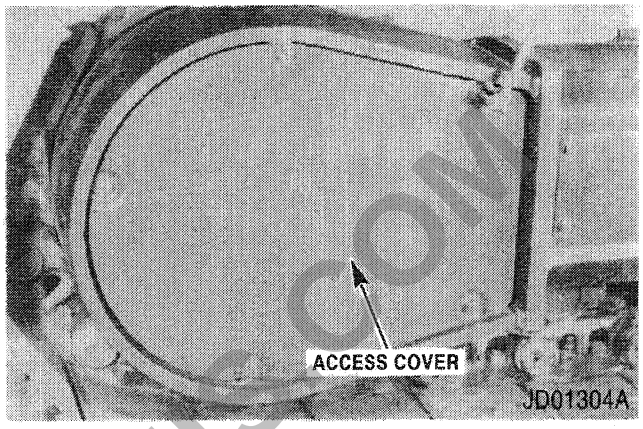
STEP 3

If the drive motor is defective and is to be replaced, refer to Counterbalance Valve Removal and do steps 1 through 8 then go to step 10 below. If the final drive transmission is defective and is being replaced, go to step 4 below.

STEP 4

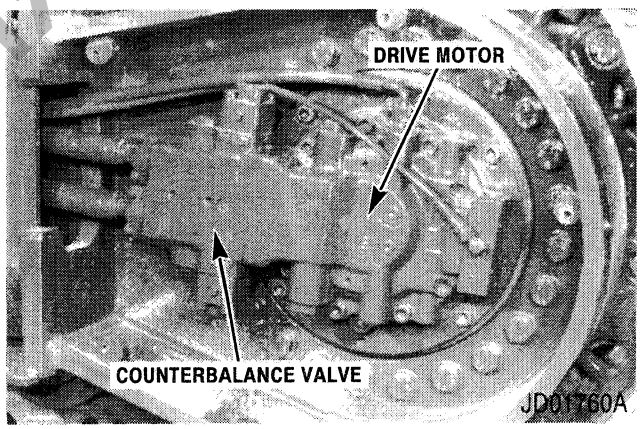
To help prevent loss of hydraulic oil when the hydraulic hoses for the drive motor are disconnected, connect a vacuum pump to the hydraulic reservoir. (See Section 8000.)

STEP 5



Remove the cap screws, lock washers, and flat washers holding the access cover to the track frame. Remove the access cover.

STEP 6



Clean the counterbalance valve, drive motor, and final drive transmission and the surrounding area.

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BOOM CYLINDER (LH and RH)

Inside Diameter	6.3 inch (160 mm)
Rod Diameter	4.3 inch (110 mm)
Stroke	62.2 inch (1 580 mm)

ARM CYLINDER

Inside Diameter	7.1 inch (180 mm)
Rod Diameter	5.1 inch (130 mm)
Stroke	75.2 inch (1 910 mm)

BUCKET CYLINDER

Inside Diameter	6.3 inch (160 mm)
Rod Diameter	4.3 inch (110 mm)
Stroke	51.4 inch (1 306 mm)

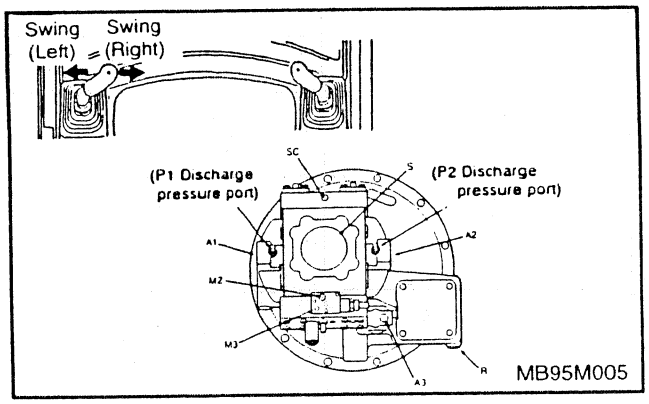
HYDRAULIC RESERVOIR

Reservoir Refill Capacity	55 U.S. gallons (210 Litres)
Total system Capacity	119 U.S. gallons (450 Litres)

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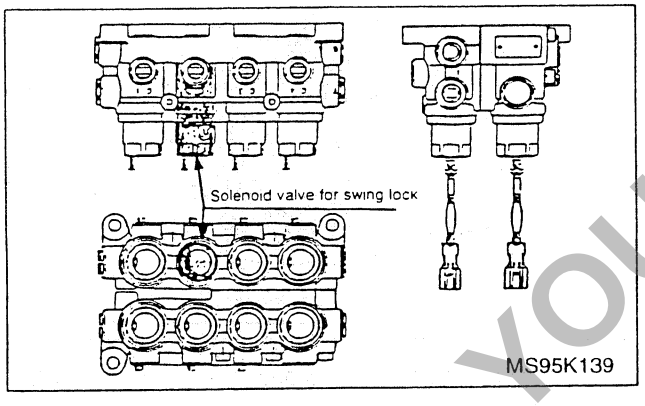
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SWING MOTOR RELIEF PRESSURE

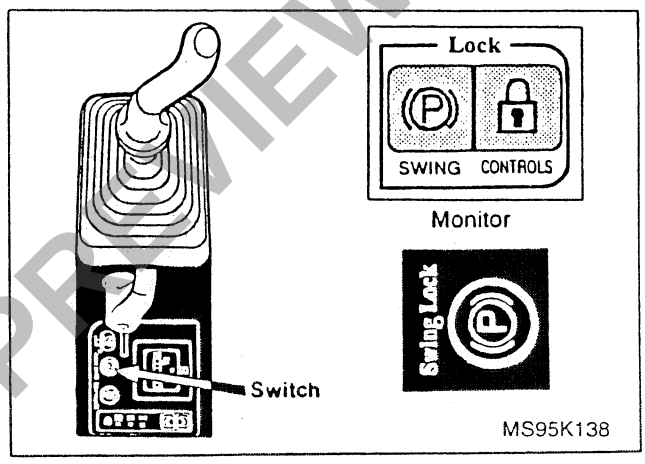


Engine Revolutions	Max.
Lever operation	Swing relief
Test port	P1
Pressure gauge	10 000 PSI
Set pressure	4 265 PSI +70 -70 PSI

SWING LOCK PROCEDURES



1. Remove the solenoid valve swing lock waterproof connector, located on the solenoid valve bank.



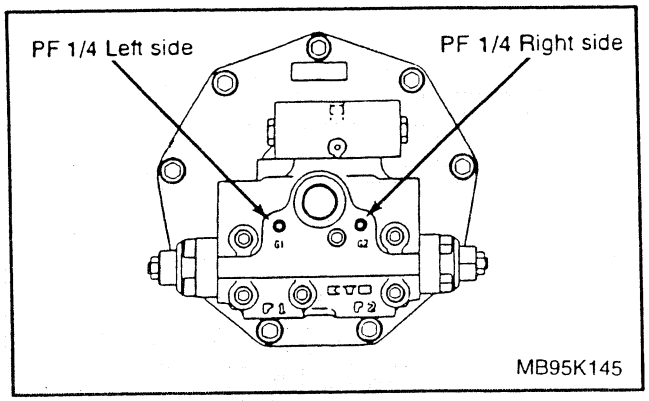
2. Press the swing lock switch located in the left console inside the cab, and confirm that a swing lock mark is indicated on the monitor

3. Run the engine at about 1000 rpm.

> **WARNING:** *Operate a swing lever slowly, and confirm that there is no swing and that the relief sound is heard.*

4. Run the engine at maximum rpm, operate the swing lever slowly and confirm that there is no swing.

NOTE: *Even though a solenoid connector is not removed, swing lock status can be obtained with the swing lock switch ON but swing relief is not obtained.*



Pressure measurement is also possible at the swing motor.

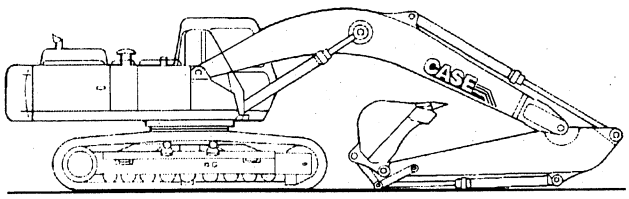
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MAIN HYDRAULIC CONTROL VALVE

Removal

STEP 1



JS01204A

Park the machine on a level surface. Lower the attachment to the ground.

STEP 2

Turn the key switch to the OFF position to stop the engine.

STEP 3

Turn the key switch to the ON position. Make sure the left control console is down in the OPERATING position and the gate lock control lever is pushed down to the OPERATING position. Check that the CONTROLS LOCK symbol is not displayed on the systems display panel. If the CONTROLS LOCK symbol is displayed, push and release the CONTROLS OFF button on the left control panel.

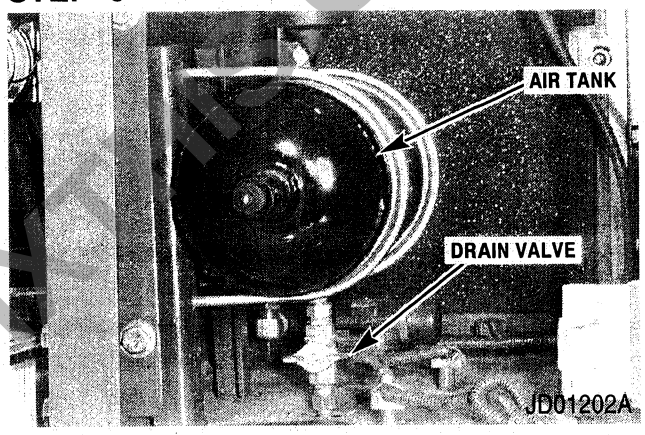
STEP 4

Operate the swing and attachments control levers back and forth, left and right, ten times to release hydraulic system pressure.

STEP 5

Turn the key switch to the OFF position.

STEP 6

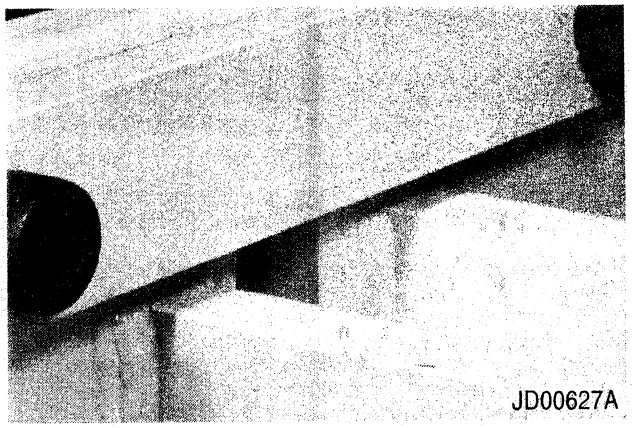


Open the left side access doors. Open the air tank drain valve to release air pressure.

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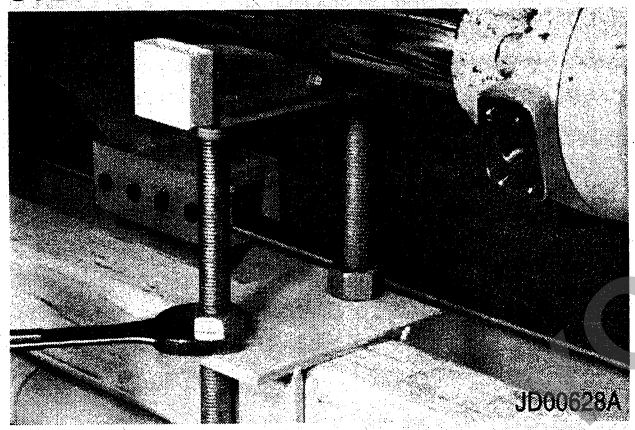
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STEP 11



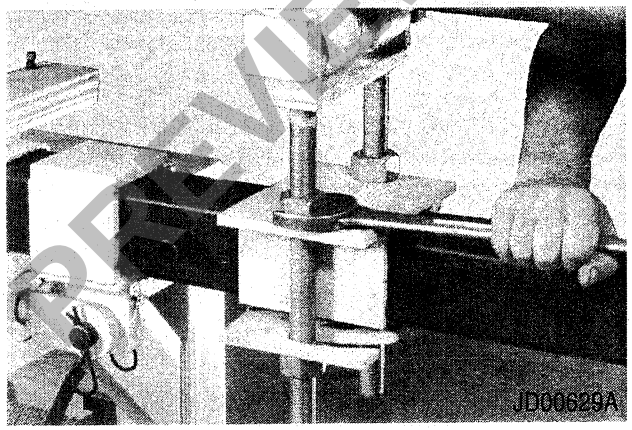
Check and ensure that the chuck wings are centered on the stand center line using scales scribed on the head and tail stock chucks.

STEP 12



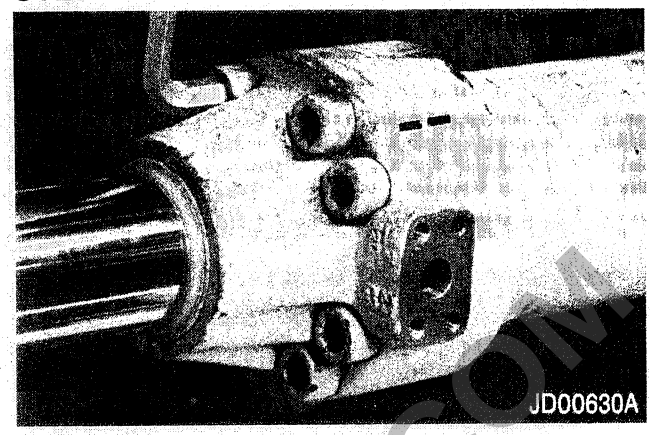
Raise the cylinder rod support to support the cylinder rod. Tighten the nuts to lock the support in position.

STEP 13



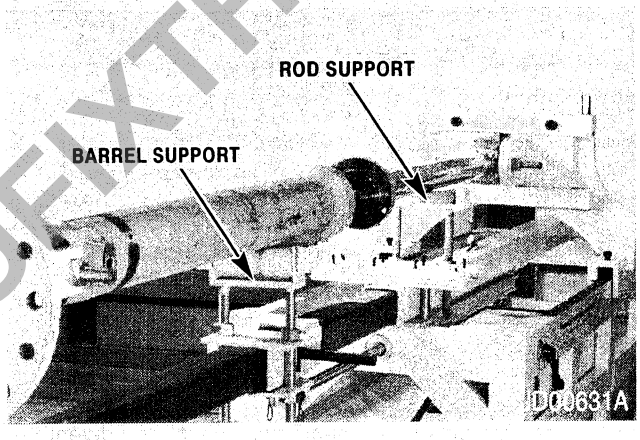
Raise the cylinder barrel support to support the cylinder barrel. Tighten the nuts to lock the support in position. Remove the lifting equipment as required.

STEP 14



To aid in assembly, put alignment marks on the cylinder barrel and cylinder head. Remove the socket head cap screws securing the cylinder head to the cylinder barrel.

STEP 15



NOTE: *When performing this step, do not pull the cylinder barrel completely away from the cylinder rod. If the cylinder barrel is completely pulled from the cylinder rod, either barrel or rod could fall from the stand if not completely supported along their entire length.*

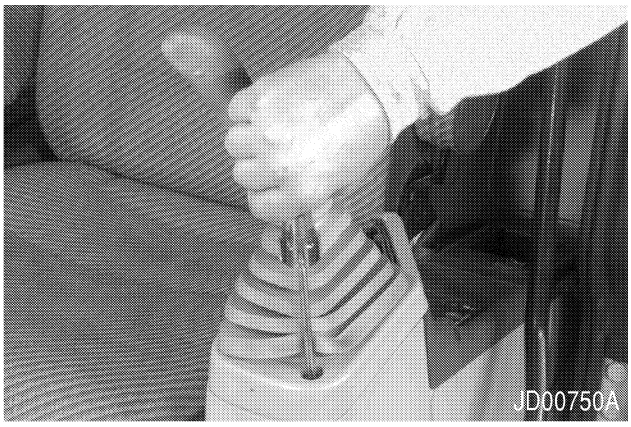
Place a container beneath the cylinder head and cylinder barrel to catch any hydraulic oil that may still be inside the cylinder. Operate the hydraulic pump to pull the cylinder barrel from the cylinder rod. Adjust position of the rod and barrel supports then pull the cylinder barrel from the rod.

STEP 16

Connect lifting equipment, if necessary, to the cylinder barrel and remove from the repair stand.

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STEP 17



Raise the corners of the boot and install the four flat washers, lock washers, and cap screws to hold the flange to the cover.

STEP 18

Disconnect the vacuum pump from the hydraulic reservoir. Check the hydraulic reservoir oil level and add hydraulic oil if necessary.

STEP 19

Remove the DO NOT OPERATE tag from the ignition key.

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NOTE: *Lubricate all parts with clean hydraulic oil. Ensure that parts are assembled in same valve bore as removed from.*

STEP 1



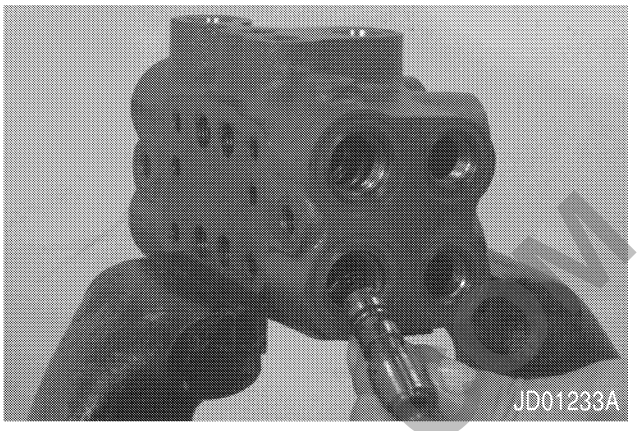
Install the collar (13) on the spool (10). Ensure that the slots on the collar are positioned on the spool as noted during disassembly.

STEP 2



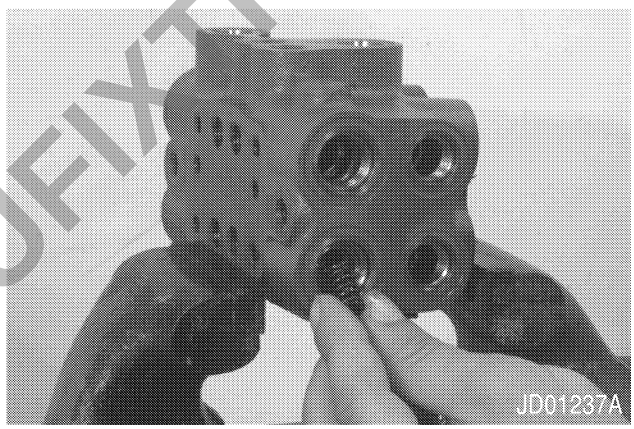
Install the spring (8) on the spool (10).

STEP 3



Install the spring (8), spool (10), and collar (13) in the housing.

STEP 4

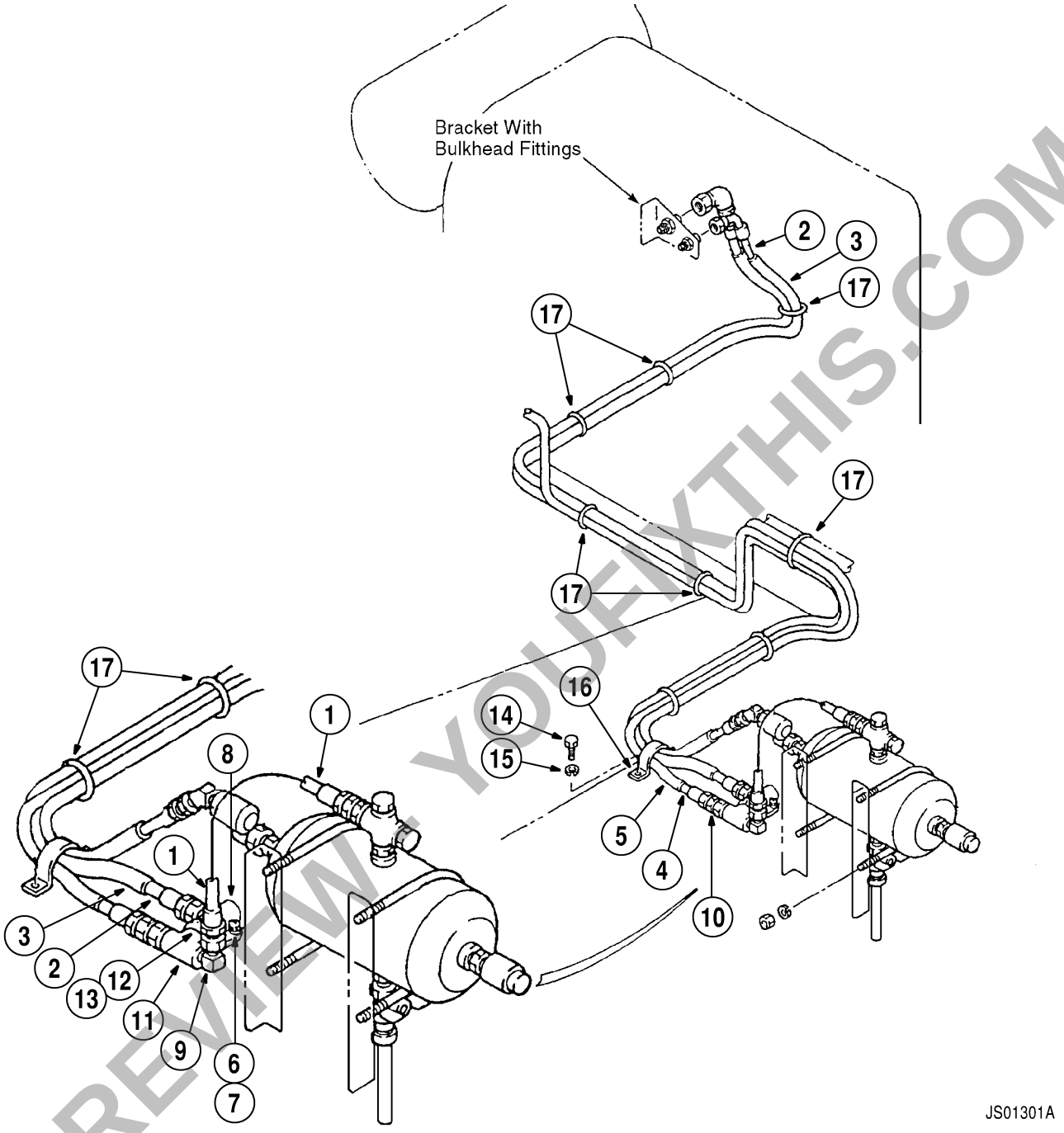


Install the spring (12) in the collar (13) in the housing.

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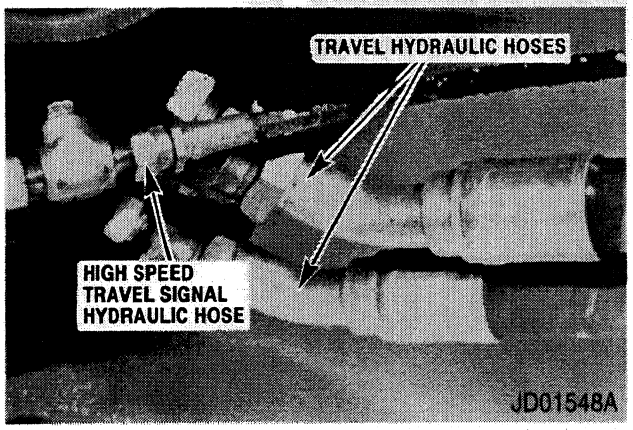
Installation



1. Air Hose
2. Air Hose
3. Sleeve
4. Air Hose
5. Sleeve
6. Cap Screw

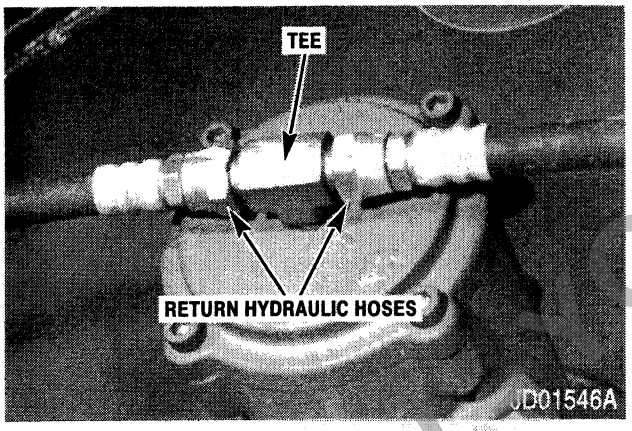
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STEP 17



Disconnect the two travel hydraulic hoses and high speed travel signal hydraulic hose for the left travel motor from the hydraulic swivel. Cap or plug the hoses and the hydraulic swivel ports.

STEP 18



At the bottom of the hydraulic swivel, disconnect the two return hydraulic hoses from the tee. Cap or plug the hoses and the tee.

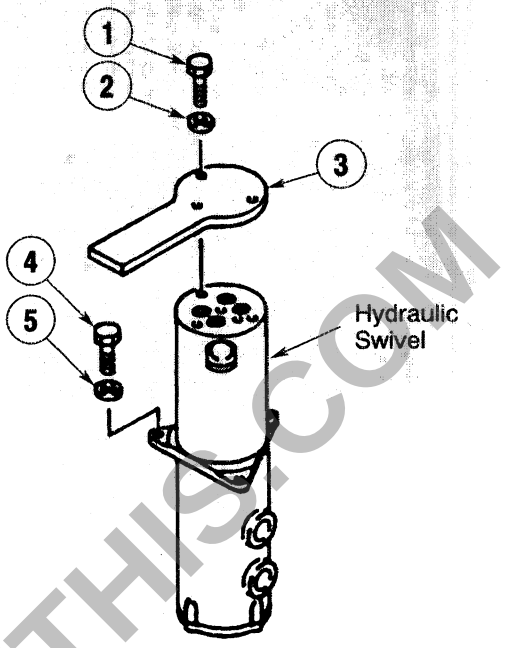
STEP 19

Turn off the vacuum pump connected to the hydraulic reservoir.

STEP 20

Connect acceptable lifting equipment to the hydraulic swivel. Weight of the hydraulic swivel is 123 pounds (55.8 kg).

STEP 21



1. Cap Screw
2. Flat Washer
3. Bar
4. Cap Screw
5. Flat Washer

Remove the three cap screws (1) and flat washers (2) securing the bar (3) to the hydraulic swivel. Remove the bar from the machine. If necessary, tap the bar to free it from the bracket welded to the machine. Remove the cap screws (4) and flat washers (5) securing the hydraulic swivel to the lower frame.

STEP 22

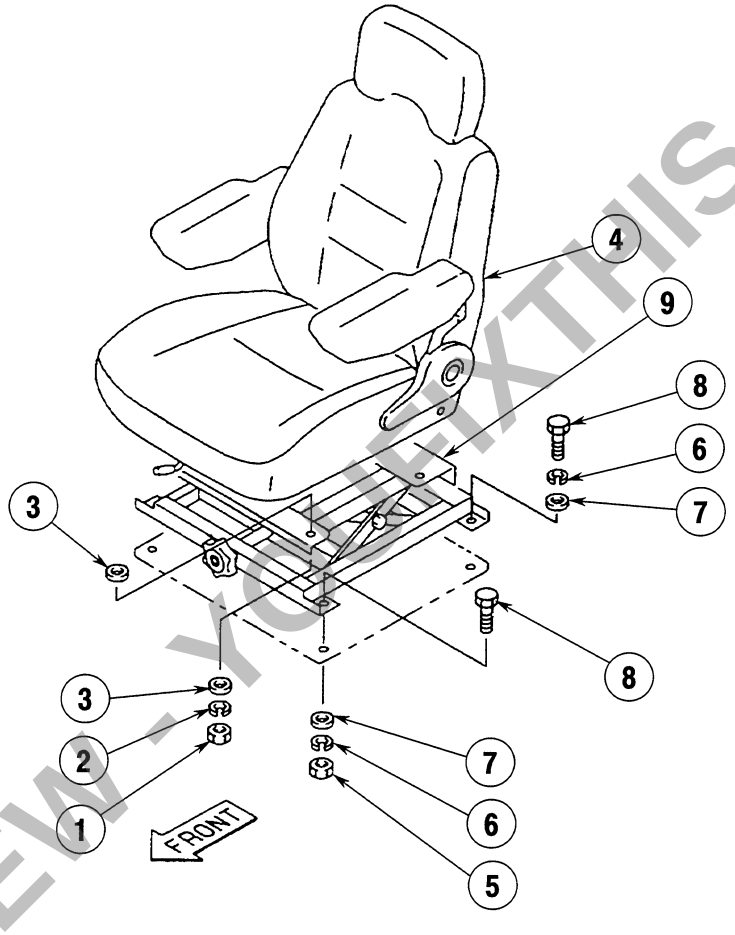
Raise the hydraulic swivel from the lower frame and remove the swivel from the machine. Place the swivel on a clean work bench and disconnect the lifting equipment from the swivel.

STEP 23

If necessary, remove adapters, elbows, and tees from the hydraulic swivel ports. Remove and discard O-rings.

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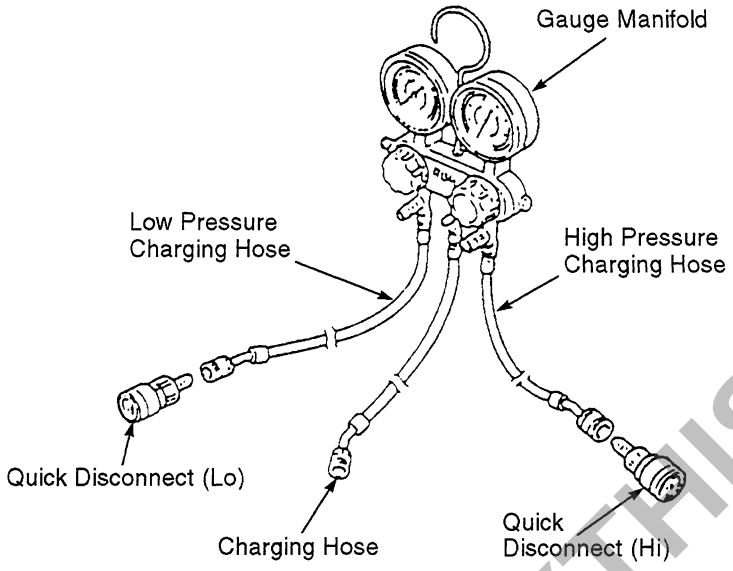
Operator's Seat

1. *Nut (Tighten to 27 to 32 lb-ft) (37 to 43 Nm)*
2. *Lock Washer*
3. *Flat Washer*
4. *Operator's Seat*
5. *Nut*
6. *Lock Washer*
7. *Flat Washer*
8. *Cap Screw (Tighten to 54 to 64 lb-ft) (73 to 87 Nm)*
9. *Seat Bracket*

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Problem - No Cooling



1. Low Pressure Gauge Reading Above 30 psi (2.1 bar)
2. High Pressure Gauge Reading Above Pressure - Temperature Chart

Indications of Air in System

A. Bubble flow is visible in sight glass.

B. Warm air coming from outlets.

1. Reclaim refrigerant from system. See Section 9008.
2. Replace receiver-drier.
3. Remove air and moisture from the system. See Section 9008.
4. Charge system with new refrigerant. See Section 9008.

Indications of a Problem in Condenser Operation

A. Bubbles in sight glass at intervals.

B. Large hose to evaporator very hot.

C. Warm air coming from outlets.

5. Make sure the condenser is clean and the fins are straight.
6. Check system for too much refrigerant. Reclaim refrigerant until gauge pressure is normal. See Section 9008.

(Continued on next page)

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