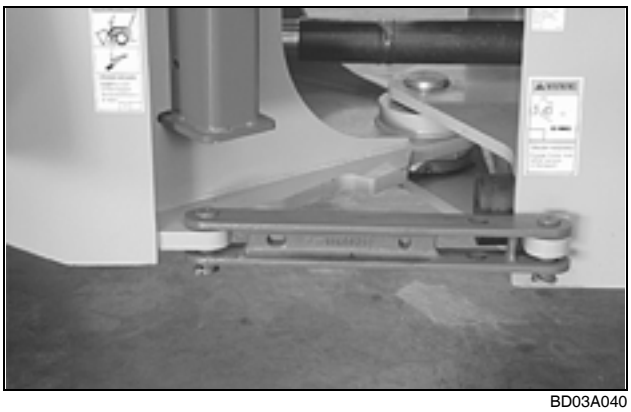
ENGINE

Removal

STEP 1



BD03A040

Park machine on a level surface and lower bucket to ground. Put articulation lock in LOCKED position.

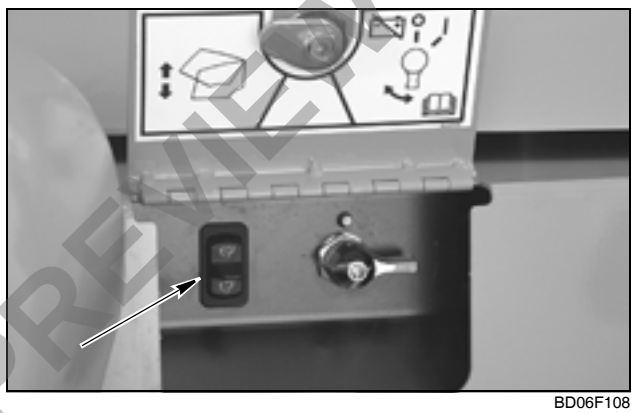
STEP 2

Stop engine. Actuate brake pedal several times to discharge brake accumulators. Put key switch in ON position and move loader control lever back and forth at least 30 times to release any pressure from hydraulic circuit. Put key switch in OFF position.

STEP 3

Slowly loosen the filler cap for hydraulic reservoir to release air pressure in hydraulic reservoir.

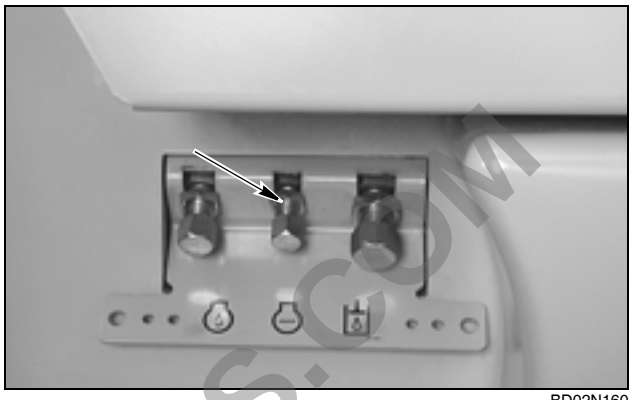
STEP 4



BD06F108

The master and hood raise switch are located in the right batter box. Raise the hood with the hood lift motor. Put master disconnect switch in OFF position. Remove both battery covers and disconnect batteries from the machine.

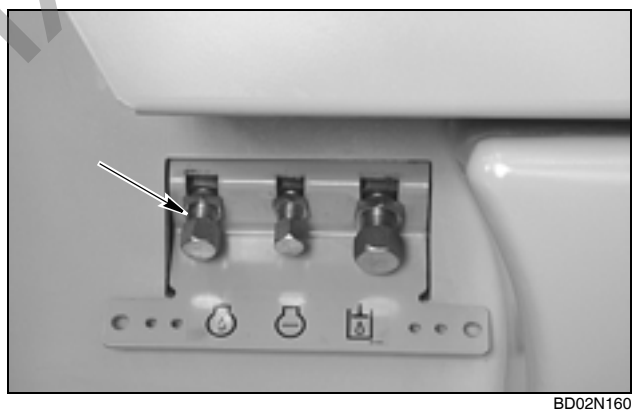
STEP 5



BD02N160

Put a 37 liter (10 gallon) container below radiator drain. Remove radiator cap. Remove cap and drain coolant into container. Install cap after coolant has drained. Install radiator cap.

STEP 6



BD02N160

Put a 14.2 liter (15 U.S. quarts) container below engine oil drain. Remove cap and drain oil into container. Install cap after oil has drained.

NOTE: *After draining oil disconnect drain hose from frame for removal with engine.*

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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

Grade 8 Bolts, Nuts, and Studs

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TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

Grade 8.8 Bolts, Nuts, and Studs



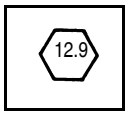
Size	Pound-Inches	Newton metres
M4	24 to 36	3 to 4
M5	60 to 72	7 to 8
M6	96 to 108	11 to 12
M8	228 to 276	26 to 31
M10	456 to 540	52 to 61
Size	Pound-Feet	Newton metres
M12	66 to 79	90 to 107
M14	106 to 127	144 to 172
M16	160 to 200	217 to 271
M20	320 to 380	434 to 515
M24	500 to 600	675 to 815
M30	920 to 1100	1250 to 1500
M36	1600 to 1950	2175 to 2600

Grade 10.9 Bolts, Nuts, and Studs



Size	Pound-Inches	Newton metres
M4	36 to 48	4 to 5
M5	84 to 96	9 to 11
M6	132 to 156	15 to 18
M8	324 to 384	37 to 43
Size	Pound-Feet	Newton metres
M10	54 to 64	73 to 87
M12	93 to 112	125 to 150
M14	149 to 179	200 to 245
M16	230 to 280	310 to 380
M20	450 to 540	610 to 730
M24	780 to 940	1050 to 1275
M30	1470 to 1770	2000 to 2400
M36	2580 to 3090	3500 to 4200

Grade 12.9 Bolts, Nuts, and Studs



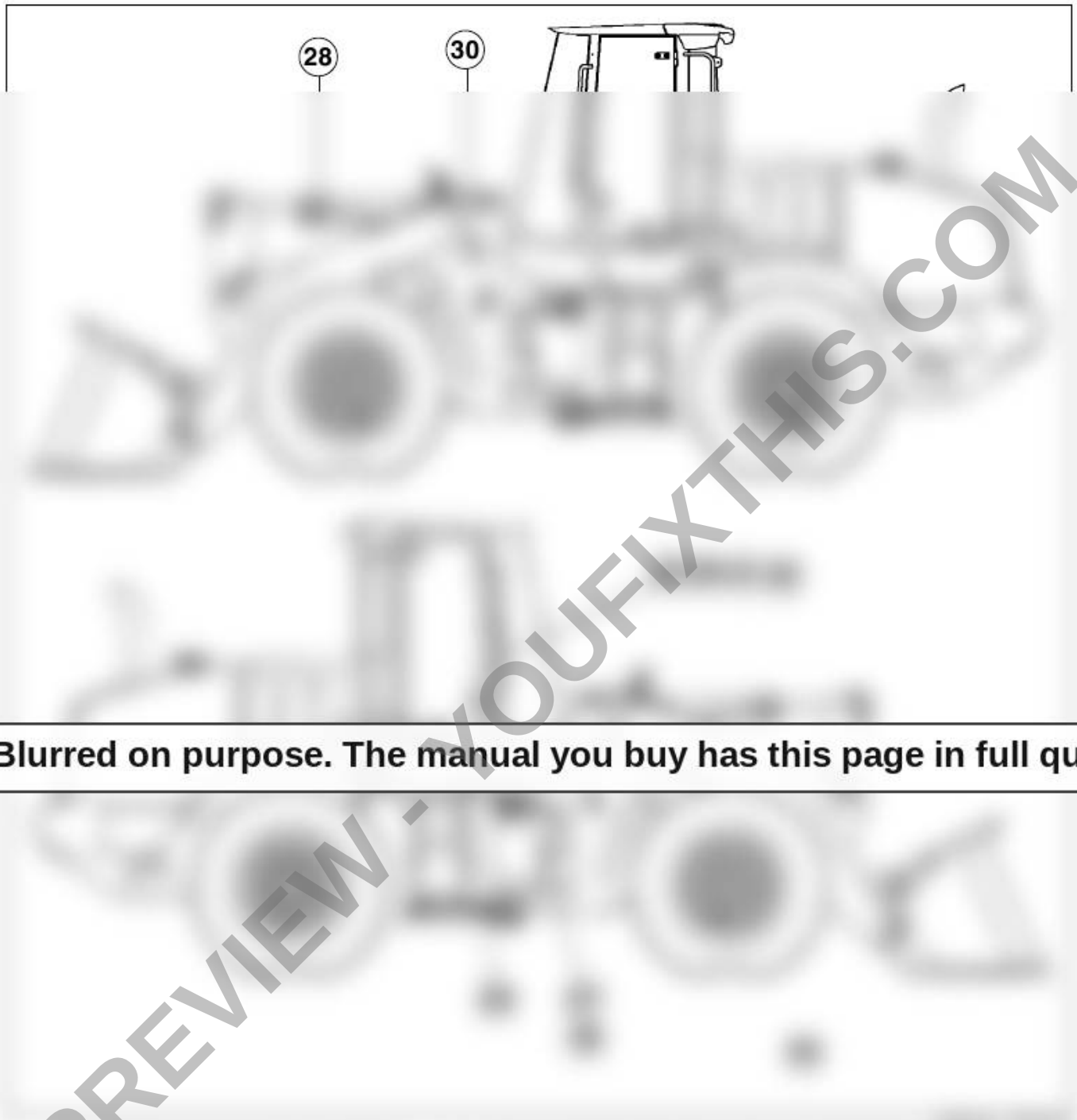
Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

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RETURN TO TRAVEL - RETURN TO DIG - PIN ENGAGE



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27 – Electromagnetic Detents		
Located under right side console.		
Check Points	**Correct Reading**	**Possible Cause of Bad Reading**

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TROUBLESHOOTING AFTER COOLER

STEP 1

Park machine on level ground, lower the bucket. Put transmission in neutral, apply the parking brake. Turn off engine.

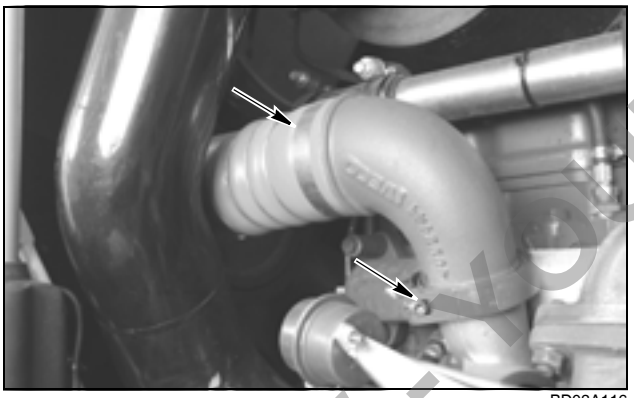
STEP 2

Raise hood. Install 'T' fitting in waste gate valve hose. Attach pressure gauge. Install another pressure gauge into the intake manifold port.

STEP 3

Have assistant start engine and run at 2000 r/min (rpm). Record pressure readings for both gauges. If the pressure difference is greater than 60 mbar (0.87 psi), inspect cooler components for damaged or missing parts.

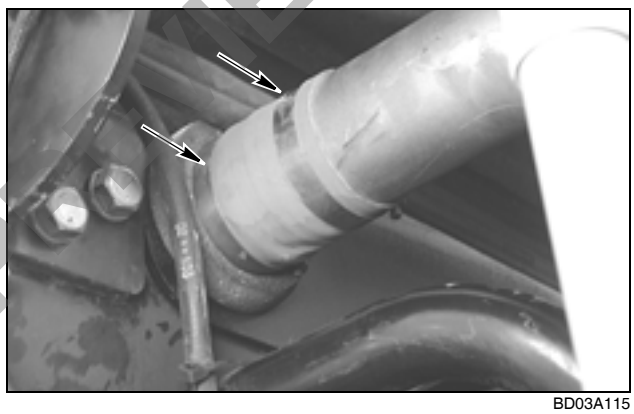
STEP 4



BD03A116

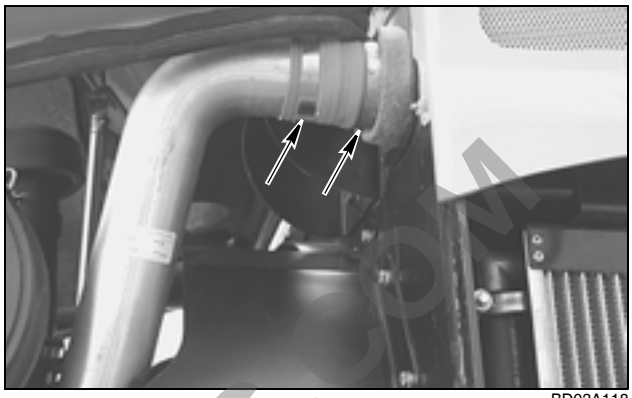
Inspect the turbocharger flex hose for leaks or holes and insure that the clamps are tight.

STEP 5



BD03A115

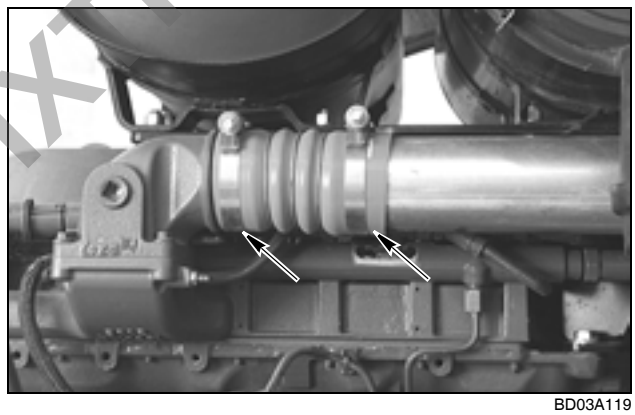
Inspect the after cooler inlet flex hose for leaks or holes and insure that the clamps are tight.



BD03A118

Inspect the after cooler outlet flex hose for leaks or holes and insure that the clamps are tight.

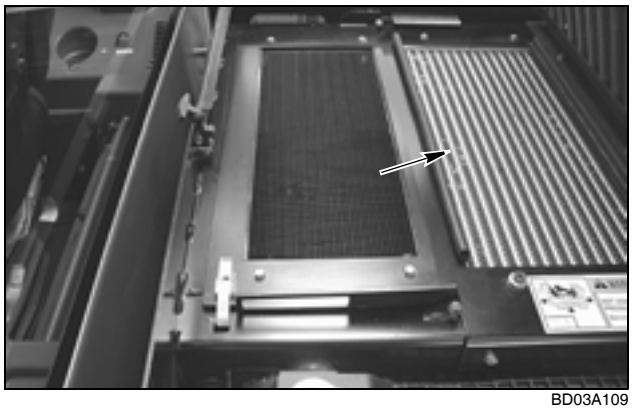
STEP 6



BD03A119

Inspect the intake manifold flex hose for leaks or holes and insure that the clamps are tight.

STEP 7



BD03A109

Visually inspect top of after cooler for damage or leaks

NOTE: *If the leak source has not been located, remove and test the after cooler.*

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721E Wheel Loader
Service Manual
87551874A

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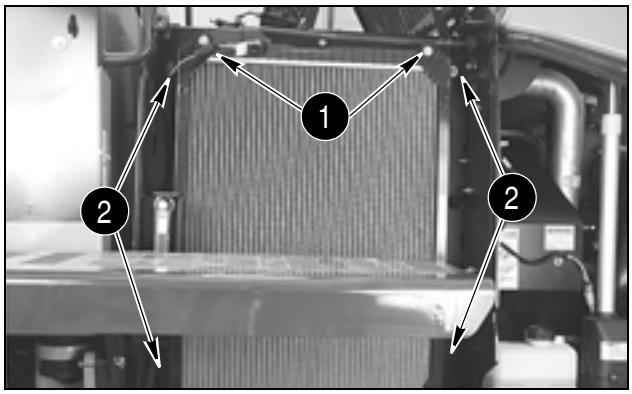
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Installation

STEP 12

Move radiator into position above cooling frame. Carefully lower radiator while guiding it into position in cooling frame.

STEP 13



BD03A106

Install four lock washers and bolts (2) to secure radiator to cooling frame. Disconnect lifting equipment from lifting eyes. Remove lifting eyes and install screws (1).

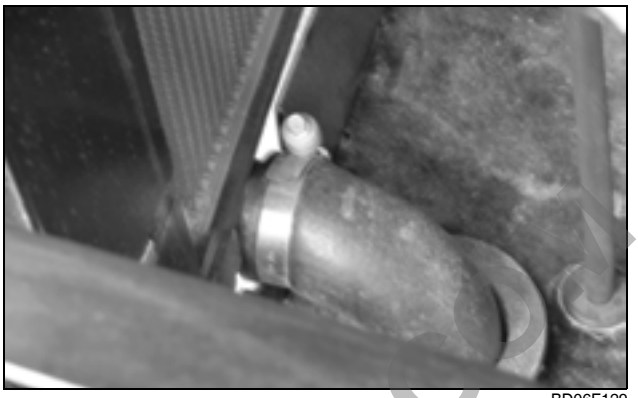
STEP 14



BD03A113

Connect connector to coolant level sender, connect overflow hose to radiator.

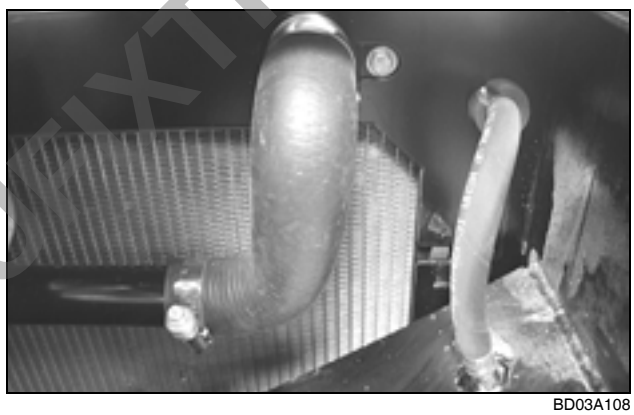
STEP 15



BD06F129

At bottom of radiator, install bottom radiator hose. Position and tighten two hose clamps to a torque of 10.1 to 11.3 Nm (90 to 100 lb-inch).

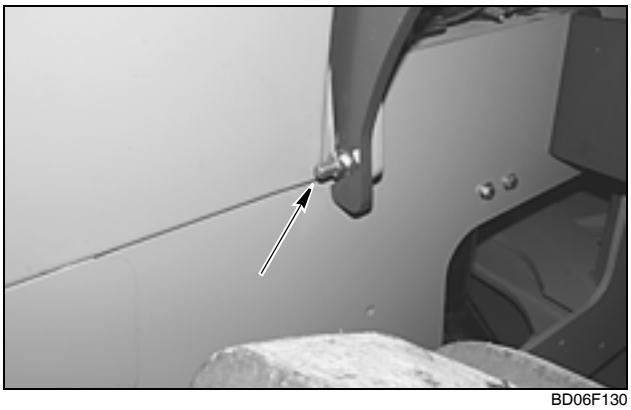
STEP 16



BD03A108

At top of cooling system frame, install hose. Position hose clamps and tighten to a torque of 10.1 to 11.3 Nm (90 to 100 lb-inch).

STEP 17



BD06F130

When installing fender make sure it is behind the fender mounting bolt.

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Wire Identification Codes

21C Bk - 1.0

Wire Size (mm^2): 0.8 mm | 1.0 mm | 2.0 mm | 5.0 mm

Wire Color

Bk = Black	DU = Dark Blue	S = Gray	LG = Light Green	K = Pink
T = Tan	W = White	N = Brown	G = Green	U = Blue
LU = Light Blue	Or = Orange	R = Red	P = Purple	Y = Yellow

Wire Name

Wire Identification			From Connector		To Connector	
Wire	**Circuit**	**Color, Size, and Material**	**Connector**	**Cavity**	**Connector**	**Cavity**
13M	Fuel Shutoff Fused Power	Or 1.0 SXL	DC4, Fuel Sol Disconnect	1	DISC, Disconnect Engine	B
13M A	Fuel Shutoff Fused Power	Or 0.8 TXL	ENG-D, Disconnect Harness	B	EDC7, Engine Controller	40
13M B	Key Switch Power Disc Sw	Or 1.0 GXL	ENG-D, Disconnect Harness	B	QSM11, Engine Controller	38
13V	Voltmeter Input ANALOG	Or 0.8 TXL	AIC-1, Adv Instr Cluster 1	1	ECB, Elect Center B	D2
14 A	Alternator D+	LG 0.8 GXL	CAB-E, Cab Engine	26	215F, Alternator Resistor	1
17P A	Switch Pad Power From AIC Pwr	Or 0.8 TXL	SW-PD, Switch Pad	9	AIC-1, Advanced Instr Cluster	25
18B	LH High Beam Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	7	LLF, Lights LH	3
18B A	LH High Beam Fused Power	Or 0.8 GXL	CAB-F, Cab Front Chassis	7	ECB, Elect Center B	AA3
18C	RH High Beam Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	16	LRF, Lights RH	3
18C A	RH High Beam Fused Power	Or 0.8 GXL	CAB-F, Cab Front Chassis	16	ECB, Elect Center B	AA4
18D	LH Low Beam Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	14	LLF, Lights LH	2
18D A	LH Low Beam Fused Power	Or 0.8 GXL	CAB-F, Cab Front Chassis	14	ECB, Elect Center B	AA6
18E	RH Low Beam Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	15	LRF, Lights RH	2
18E A	RH Low Beam Fused Power	Or 0.8 GXL	CAB-F, Cab Front Chassis	15	ECB, Elect Center B	AA5
18F	LH Position/Tail Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	6	LLF, Lights LH	4
18F A	LH Position/Tail Fused Power	Or 0.8 GXL	CAB-E, Cab Engine	5	SPL-POS-L, Ultrasonic	
18F AN	LH Position/Tail Fused Power	Or 1.0 SXL	ENG, Engine Cab	5	ENG-H, Engine to Hood	6
18F B	LH Position/Tail Fused Power	Or 1.0 SXL	ENG, Engine Cab	5	LLR-E, LH Rear Comb Light	3
18F BN	LH Position/Tail Fused Power	Or 1.0 SXL	HD-N, Hood to Engine	6	LLR-N LH Rear Combination Light	B
18F C	LH Position/Tail Fused Power	Or 1.0 GXL	SPL-POS-L, Ultrasonic		ECB, Electric Center B	AA7
18F E	LH Position/Tail Fused Power	Or 0.8 GXL	CAB-F, Cab Front Chassis	6	SPL-POS-L, Ultrasonic	
18F F	LH Position/Tail Fused Power	Or 1.0 SXL	HD-9, Hoof to Engine	6	LLR-9, LH Rear Comb Light	3
18G	RH Position/Tail Fused Power	Or 1.0 GXL	SPL-POS-R, Ultrasonic		ECB, Elect Center B	AA8
18G A	RH Position/Tail Fused Power	Or 1.0 SXL	FRONT, Cab Front Chassis	5	LRF, Lights RH	4
18G CN	RH Position/Tail Fused Power	Or 1.0 SXL	SPL-POS-NA, Ultrasonic	A	LRR-N, RH Rear Combination Light	B
18G D	Licence Plate Light Fused Pwr	Or 1.0 SXL	SPL-POS, Ultrasonic	A	E-HD, Trans Hood	A
18G E	Licence Plate Light Fused Pwr	Or 0.8 GXL	HD-E, Hood Trans	A	LPL, Licence Plate Light	A
18G EN	Licence Plate Light Fused Pwr	Or 1.0 SXL	LPL, Licence Plate Light	A	SPL-POS-NA, Ultrasonic	A

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42 – Rollback Jumper (Option)

Located inside of front frame.

Check Points	Correct Reading	Possible Cause of Bad Reading
Between terminals A and B on switch	Continuity	Bad rollback jumper.

43 – Fan PWM Solenoid (Option)

Located on fan control valve.

Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *Disconnect wiring harness connector YFN from fan PWM solenoid.*		
Between pins 1and 2 of fan PWM solenoid	26 to 32 ohms	Bad fan reversing solenoid.
Pin 2 of wiring harness connector YFN to ground	Continuity	Bad ground circuit.
NOTE: *In the options menu of the instrument cluster select auto for the fan. Stall the transmission to raise transmission temperature to high operating range.*		
Pin 1 of wiring harness connector YFN to ground	24 volts	Bad instrument cluster. Also check wire 56.

44 – Fan Reversing Solenoid (Option)

Located on fan control valve.

Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *Disconnect wiring harness connector YFR from fan reversing solenoid.*		
Between pins 1and 2 of fan reversing solenoid	36 to 42 ohms	Bad fan reversing solenoid.
Pin 2 of wiring harness connector YFR to ground	Continuity	Bad ground circuit.
NOTE: *Put the master disconnect switch and the ignition switch in the ON position. Put fan reversing switch in ON position (hold rocker in momentary position).*		
Pin 1 of wiring harness connector YFR to ground	24 volts	Bad fan reversing switch. Also check wire 52-A.

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116 – Secondary Steering Module (Option)

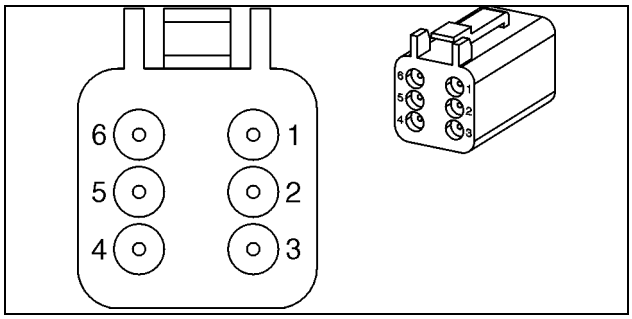
Located in the rear frame of the machine.

Check Points	Correct Reading	Possible Cause of Bad Reading
NOTE: *Disconnect the wiring harness connector SSM from the secondary steering module.*		
Pin 2 of connector SSM to ground	Continuity	Bad relay on secondary steering motor (117) or bad secondary steering solenoid (115). Also Check wires 51-A, 51-B, and 51-C and ground circuit connections (wires 0-ND and 0-CF).
Pin 4 of connector SSM to ground	Continuity	Bad ground circuit.
Pin 8 of connector SSM to ground	Continuity	Bad secondary steering pressure switch (118). Also check wires 35X-D, 35X-C, and 35X-A.
Pin 9 of connector SSM to ground	Open Circuit	Bad secondary steering pressure switch (118). Also check wire 51P-A.
Pin 11 of connector SSM to ground	Continuity	Bad ground circuit.
Pin 12 of connector SSM to ground	Continuity	Bad ground circuit.
NOTE: *Put the master disconnect switch and the ignition switch in ON position.*		
Pin 3 of connector SSM to ground	24 volts	Bad wire 19S1-X to power relay module A fuse 2 (13).
Pin 7 of connector SSM to ground	24 volts	Bad fuse ECA-F17 or ignition switch. Also check circuit 19M.
Pin 1 of connector SSM to ground	24 volts	Check fuse ECA-F4, power relay module A (13), ignition switch, and diode module. Also check circuit 19R.
NOTE: *Start and run engine at idle speed.*		
Pin 9 of connector SSM to ground	Continuity	Bad secondary steering pressure switch.
Pin 8 of connector SSM to ground	11 volts	Check circuit 35X to instrument cluster. If circuit 35X okay, problem is bad instrument cluster.
NOTE: *Put ignition switch in OFF position to stop engine. Connect wiring harness connector SSM to secondary steering module. Disconnect wire 51-B from secondary steering motor (117) relay terminal. Start and run engine at idle speed. Disconnect wiring harness connector PSS from secondary steering pressure switch (118). Apply a ground to pin C of connector PSS.*		
Terminal for wire 51-B to ground	24 volts	Bad secondary steering module.

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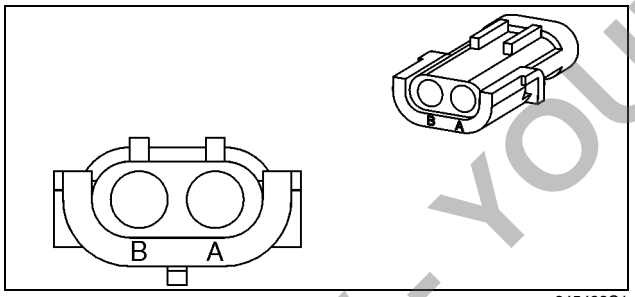
CONNECTOR LLF - LH FRONT LIGHTS



225351C1

CAV	WIRE IDENT	CIRCUIT
1	0-AJ	Lights Ground LH
2	18D	Low Beam LH
3	18B	High Beam LH
4	18F	Position LH Fused Power
5	45L	Left Turn Signal
6		Not Used

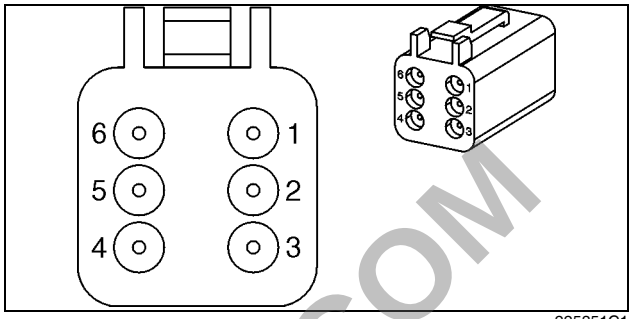
CONNECTOR LLFW - LH FRONT WORK LAMP



245483C1

CAV	WIRE IDENT	CIRCUIT
A	42C-H	LH Front Work Lamp Power
B	0-MU	LH Front Work Lamp Ground

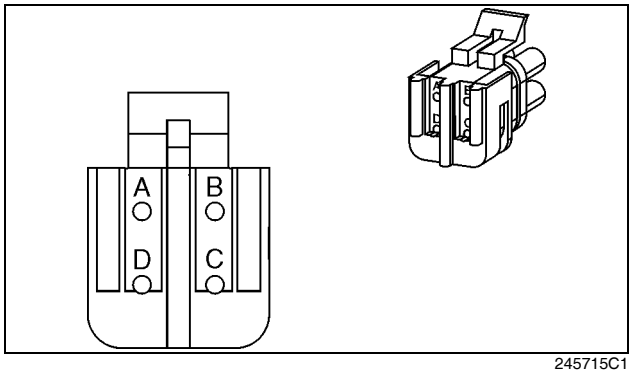
CONNECTOR LLR-E - LH REAR COMBINATION LAMP



225351C1

CAV	WIRE IDENT	CIRCUIT
1	44A-E	Brake Light Relay Out
2	45L-A	Left Turn Signal
3	18F-B	Left Tail Fused Power
4	35A-L	Reverse Lamp
5	0-BT	LH Ground (EURO)
6		Not Used

CONNECTOR LLR-N - LH REAR COMBINATION LAMP



245715C1

CAV	WIRE IDENT	CIRCUIT
A	44A-FN	Brake Lamp Relay Out
B	18F-BN	LH Tail Lamp Fused Pwr
C	45L-BN	Left Turn Signal
D	0-BR-N	LH Rear Light Ground (NA)

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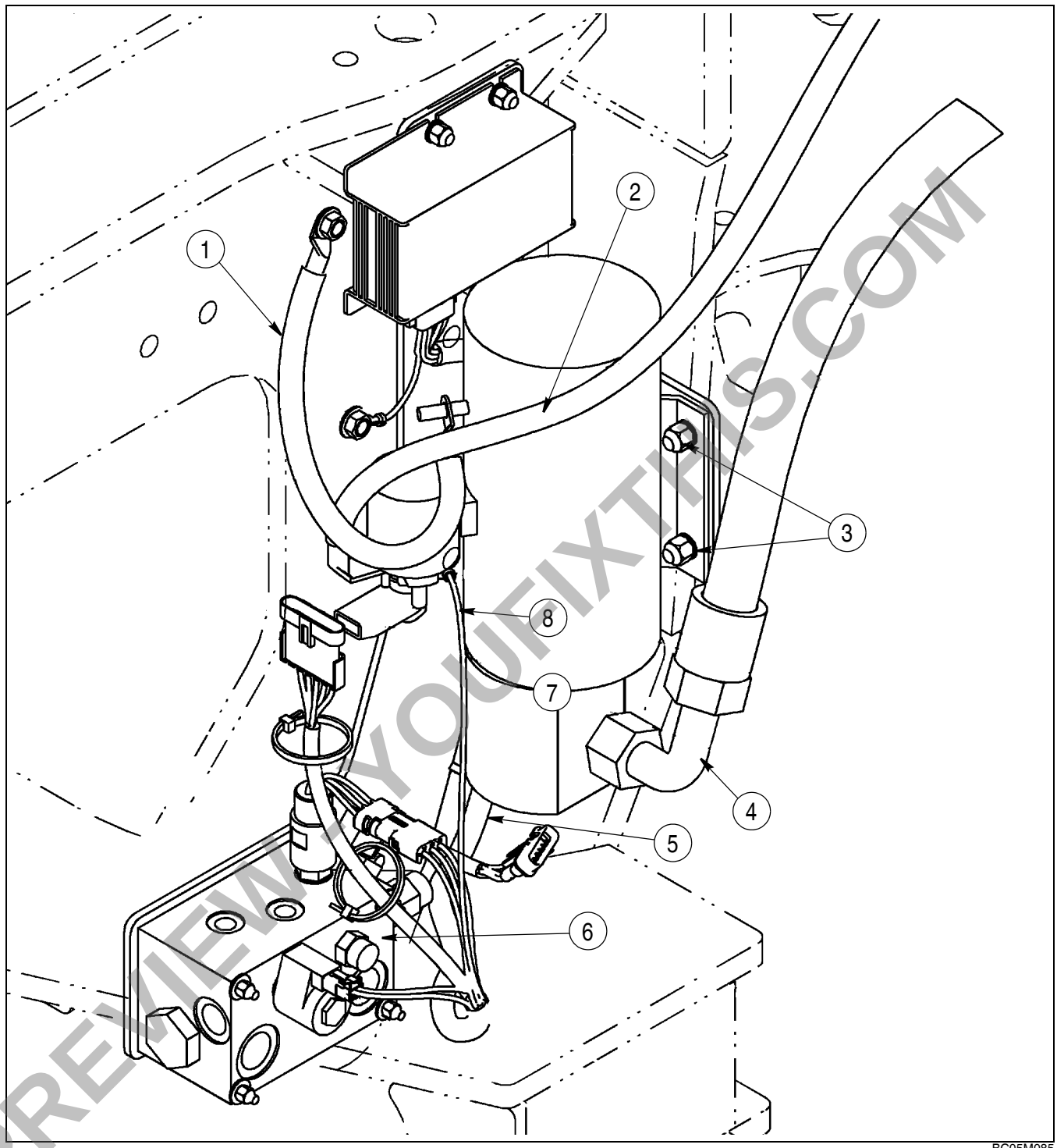
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BC05M085

1. GROUND CABLE
2. POSITIVE CABLE
3. NUT (4)
4. SUCTION HOSE
5. PRESSURE TUBE
6. AUXILIARY STEERING PRIORITY VALVE
7. AUXILIARY STEERING PUMP AND MOTOR
8. WIRING HARNESS

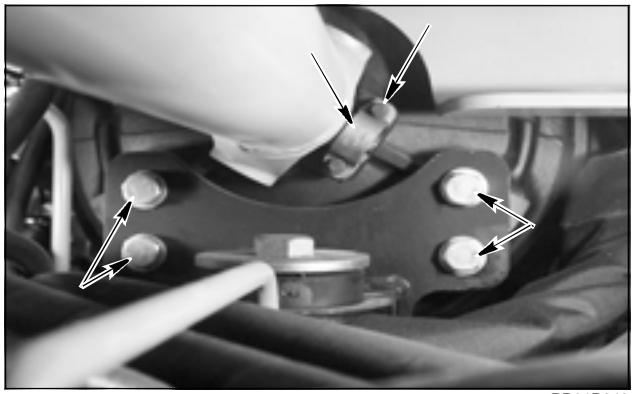
AUXILIARY STEERING PUMP AND MOTOR ILLUSTRATION

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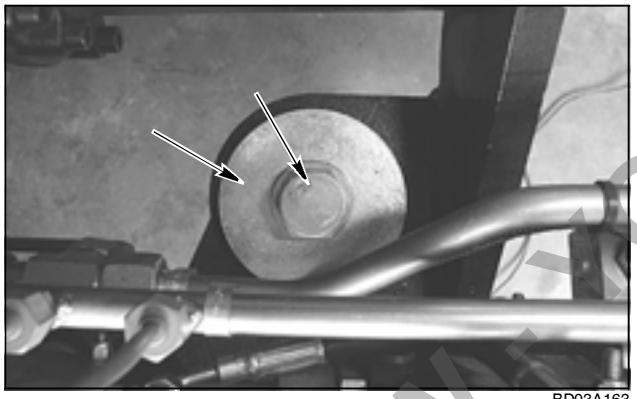
STEP 21



BD01D342

In area between the transmission and the engine, remove four bolts and two straps. Use pry bar to disconnect engine drive shaft from transmission. Using 3/4 inch drive socket, extensions, and impact wrench, remove four bolts and washers securing transmission to top mounting bracket.

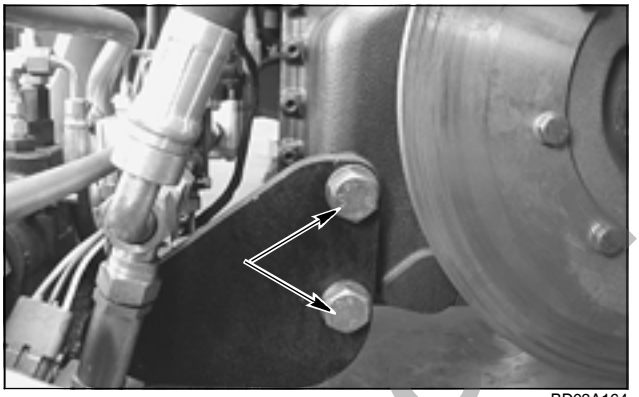
STEP 22



BD03A163

Remove bolts and washers securing RH and LH mounting brackets to rear chassis.

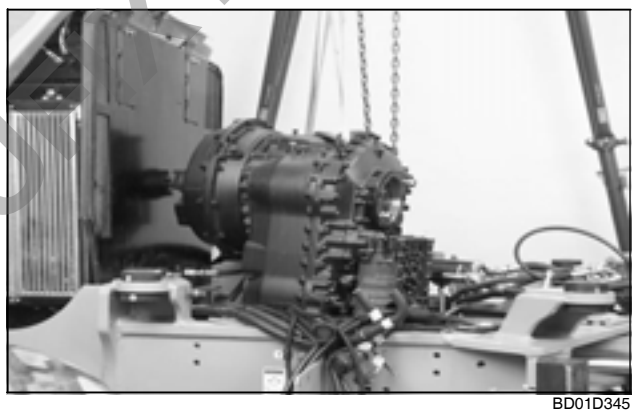
STEP 23



BD03A164

Raise transmission just enough to enable removal of RH and LH mounting brackets. Remove two bolts and washers securing RH and LH mounting brackets to transmission. Remove RH and LH mounting brackets.

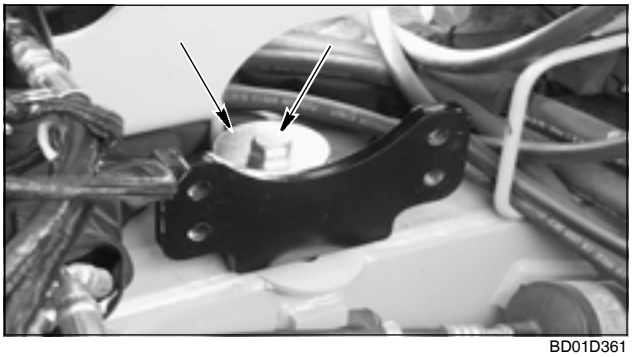
STEP 24



BD01D345

Slowly and carefully raise transmission from loader while checking that all hoses, electrical connectors, and wires have been disconnected and nothing interferes with transmission removal. Remove transmission from loader.

STEP 25



BD01D361

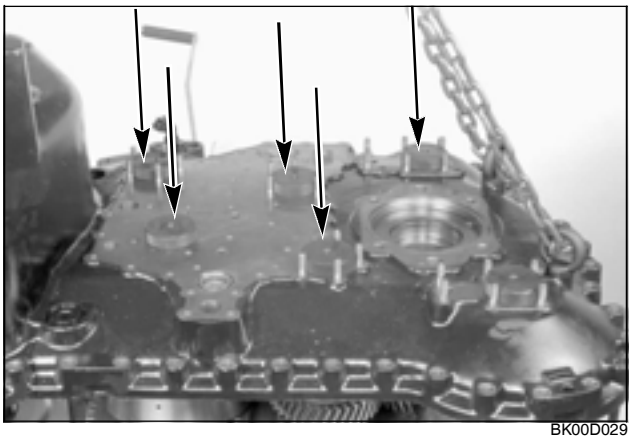
If top mounting bracket requires removal, remove bolt and washer then remove bracket.

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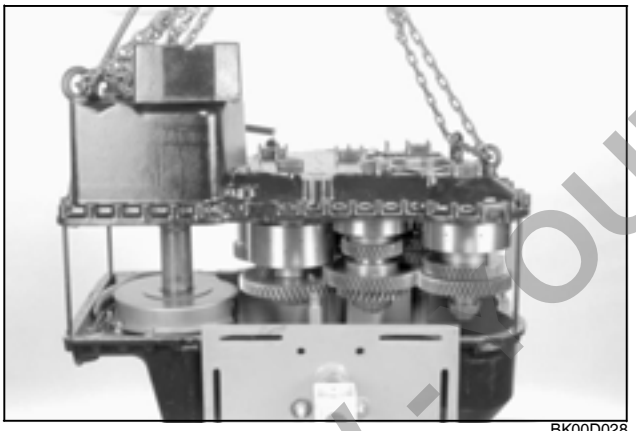
STEP 27



BK00D029

Install CAS2800 clutch assembly holding knob set. With knobs installed on all clutches in housing cover, install CAS2797 lifting eyebolt set and lifting device to transmission cover.

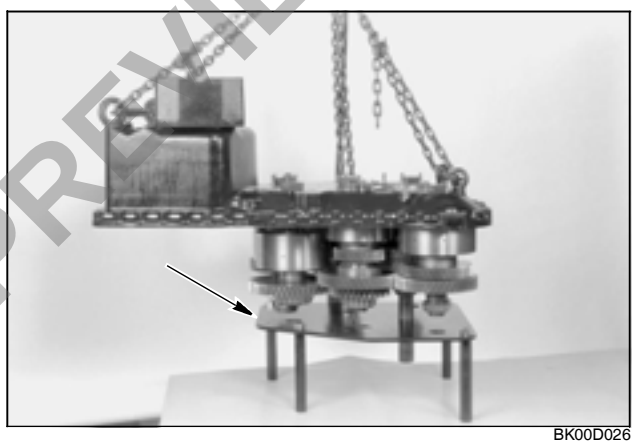
STEP 28



BK00D028

Separate the cover along with clutches from the transmission housing, using lifting device.

STEP 29



BK00D026

Place clutch disc carriers onto CAS2796 nesting plate.

STEP 30

Remove CAS2800 clutch assembly holding knob set and lift cover free.

STEP 31



GD98M867

Remove the socket head screws and remove the output shaft and both oil baffle plates.

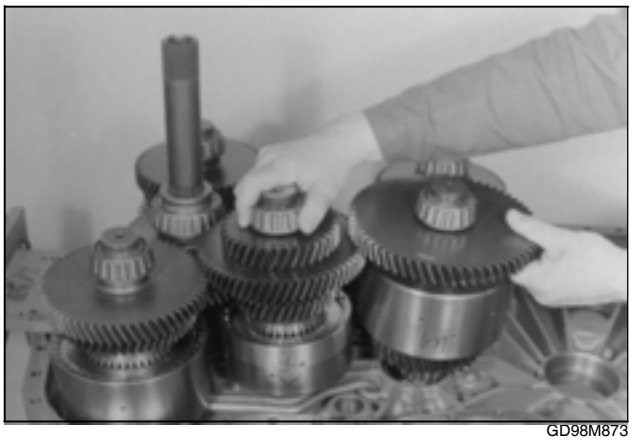
STEP 32



GD98M872

Remove clutch K2.

STEP 33



GD98M873

Remove clutch K1 while lifting clutch K4.

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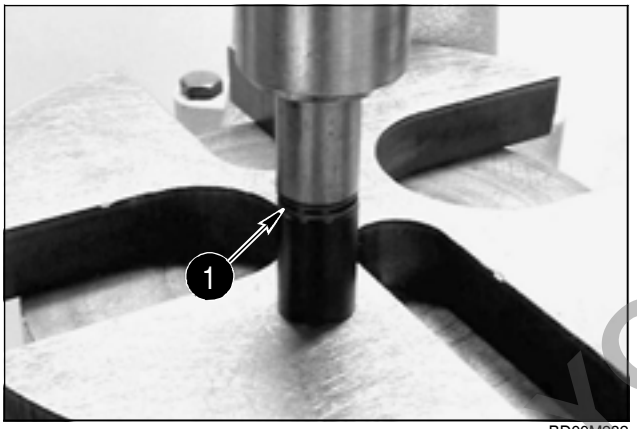
STEP 47



BD00M281

Insert the pins into the assembly fixture until contact.

STEP 48



BD00M282

1. GRIPPING RINGS

Press the gripping rings onto the pins until contact on the assembly fixture.

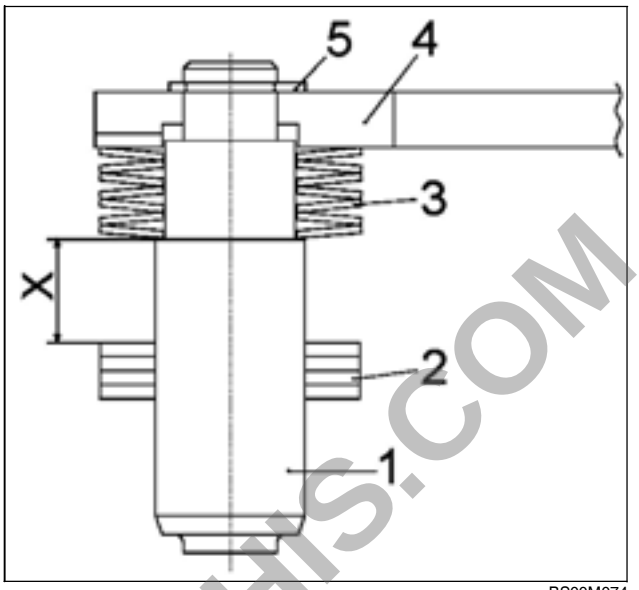
ATTENTION: *Observe the installation position, install the gripping rings with the orifices offset by 180° to each other.*

STEP 49



BD00M283

Install the cup springs onto the pins. See illustration below.



BS00M074

1. PIN
2. GRIPPING RINGS
3. CUP SPRINGS
4. SUPPORT SHIM
5. RETAINING RING

X. 10.5 MM $^{+0.3}$ (0.41 IN $^{+0.02}$)

STEP 50



BD00M284

Insert the assembled pins into the support shim and install the snap ring.

STEP 51



BD00M285

Insert the assembled support shim into the piston.

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STEP 63

WARNING: *Always wear heat protective gloves to prevent burning your hand when handling heated parts.*

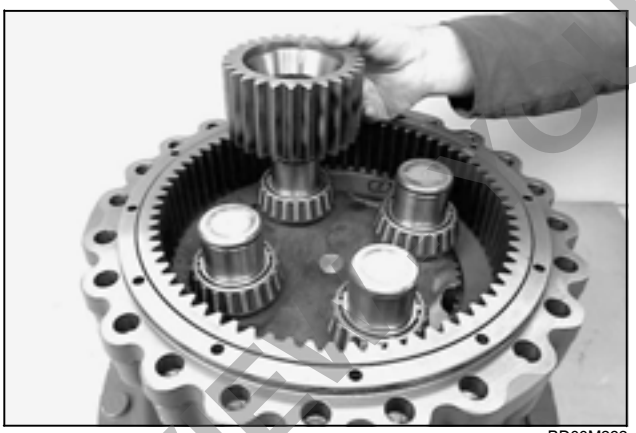
SM121A



BD00M292

Heat the planetary gears inner bearings to 100° C (212° F) in a bearing oven. Wearing heat resistant gloves or mittens, install the bearings on the shafts until the bearing is against the bottom of the shaft.

STEP 64



BD00M293

Install the planetary gears on the bearings.

STEP 65

WARNING: *Always wear heat protective gloves to prevent burning your hand when handling heated parts.*

SM121A



BD00M294

Heat the planetary gears outer bearings to 100° C (212° F) in a bearing oven. Wearing heat resistant gloves or mittens, install the bearings on the shafts until the bearing is against the gear.

STEP 66



BD00M295

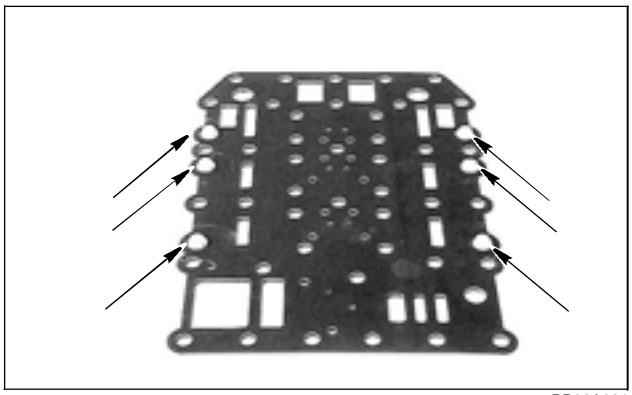
Install the retaining rings on the planetary gear shafts.

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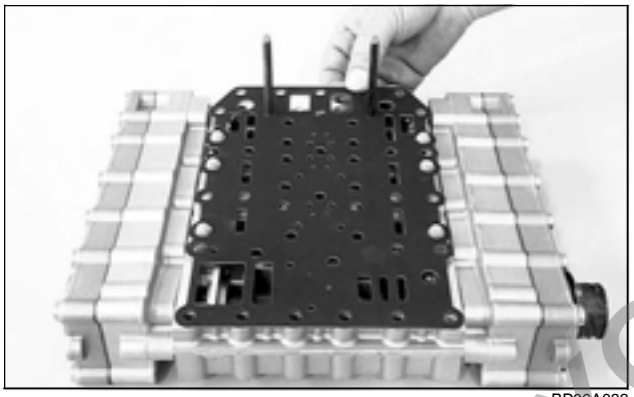
STEP 26



BD06A031

Install the screens into the bores of the intermediate plate towards the distribution plate.

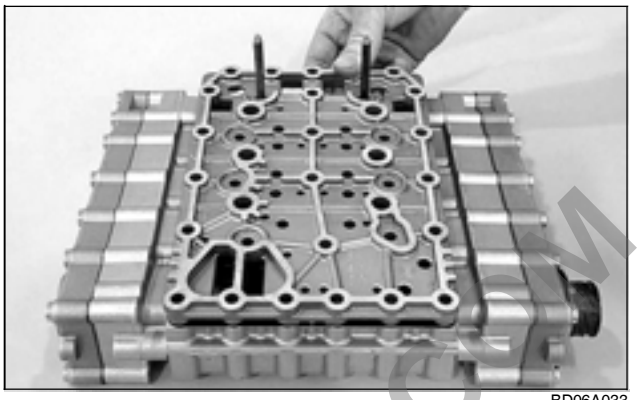
STEP 27



BD06A032

Install two adjusting screws. Place the intermediate plate with the screens facing up.

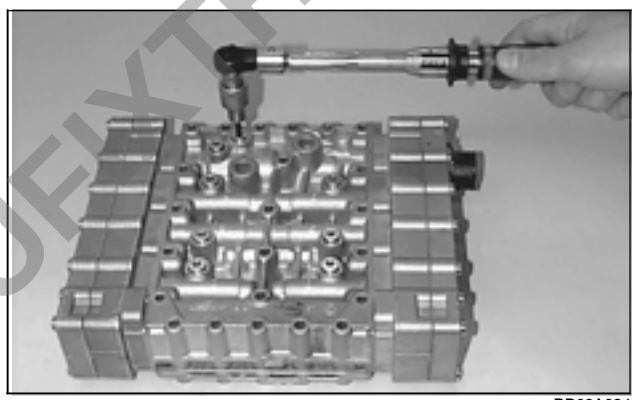
STEP 28



BD06A033

Install the distribution plate, install the cap screws and torque in a criss cross pattern to 9.5 Nm (84 pound-inch).

STEP 29



BD06A034

Install new o-rings on the plugs, install and torque plugs to 6 Nm (53 pound-inch).

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LOADER CONTROL VALVE

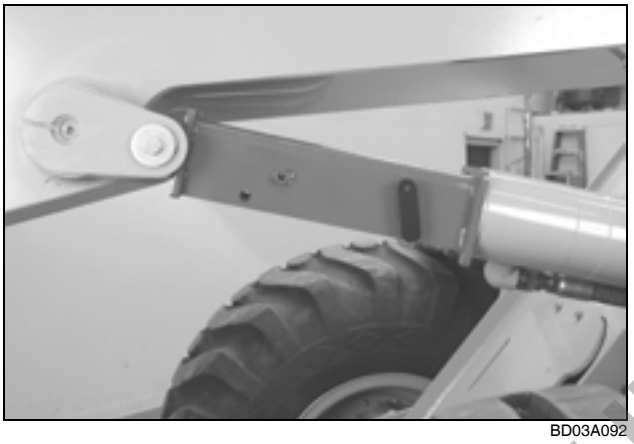
Removal

STEP 1

Park the machine on a level surface.

IMPORTANT: *If machine is equipped with quick-attached components, disconnect them from machine prior to proceeding.*

STEP 2



BD03A092

Raise the lift arms and install the safety link on the lift arm cylinder.

STEP 3

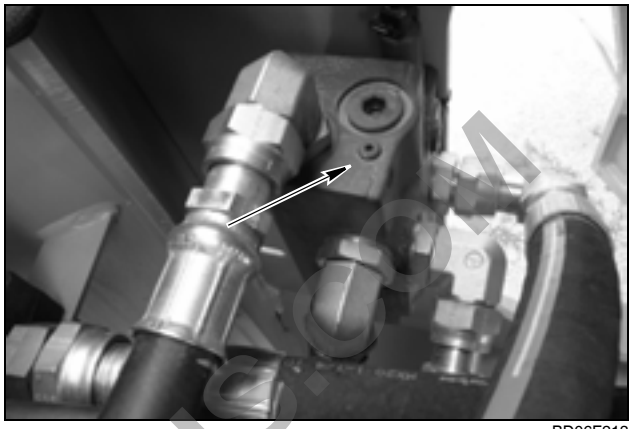
Stop the engine and apply the parking brake.

IMPORTANT: *With the engine NOT running, pump the brake repeatedly to be sure the brake accumulators have no hydraulic pressure, put the ignition switch in the ON position then move the loader control valve back and forth several times to release any hydraulic pressure in the pilot control circuit, turn ignition switch OFF.*

STEP 4

Place the master disconnect switch in the OFF position.

STEP 5



BD06F213

Relieve the pressure in the ride control accumulator with the manual bleeder valve located on the top of the ride control valve. Remove the plug and turn the valve two turns counter-clockwise.

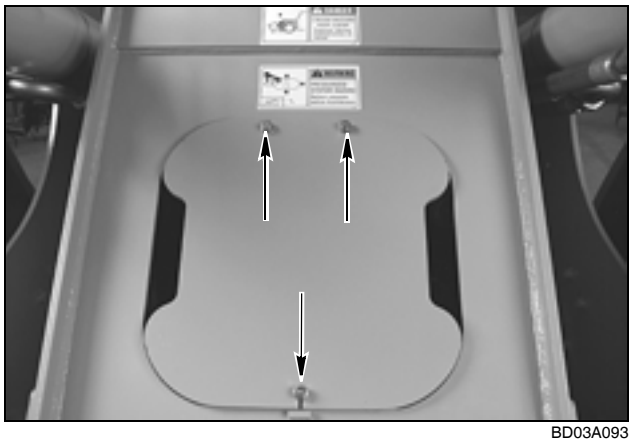
STEP 6

Loosen the filler cap on the reservoir to release the air pressure in the reservoir.

STEP 7

Drain the hydraulic reservoir.

STEP 8



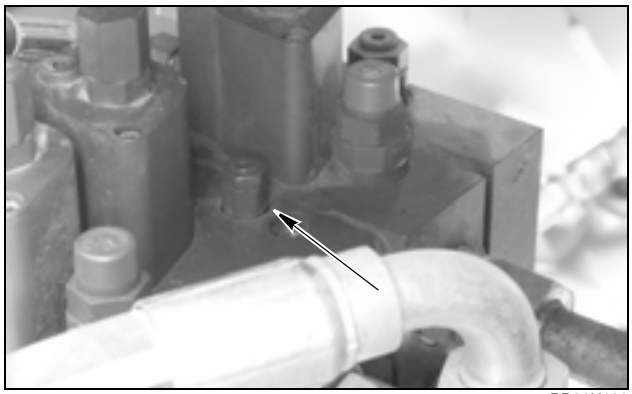
BD03A093

Loosen and remove the bolts and washers that fasten the access cover plate for the loader control valve. Remove the cover plate.

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Adjusting the Loader Limit Pressure



BD06H192

STEP 9

The limit adjusting screw is located on the top of the loader valve. Turn the screw clockwise to increase the limit pressure. Turning the screw counterclockwise will decrease the limit pressure.

NOTE: *One turn of the adjustment screw will change the pressure approximately 35 bar (500 psi).*

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DISSASEMBLY

STEP 1
Remove valve from machine, see section 8001.

STEP 2
Remove bolts (27), cover (26), springs (24 and 25), and spring retainer (23).

STEP 3
Remove bolts (32), covers (33), spring (24), and spring retainer (23).

STEP 4
Use wooden dowel or brass drift and push spools (35) from housing (11).

IMPORTANT: *Do not force spools from housing, if spool binds work back and forth until spool comes out freely.*

NOTE: *Repeat steps 3 and 4 for a 3 and 4 spool valve configuration.*

STEP 5
Remove anticavitation valves (5, 8, 10, and 13).

NOTE: *Repeat step for a 3 and 4 spool anticavitation valves (37).*

STEP 6
Remove locking screw (22) and cone (21).

STEP 7
Remove pressure relief valve (20).

STEP 8
Remove flow limit valve (19).

STEP 9
Remove locking screw (16), spring (17), and cone (18).

STEP 10
Remove regeneration check valve (15).

STEP 11
Remove locking screw (14).

STEP 12
Remove load sense shuttle check valve (7).

STEP 13
Remove locking screws (12).

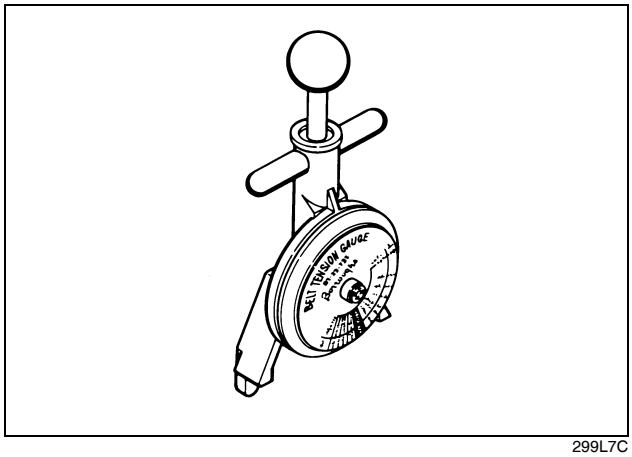
STEP 14
Remove pilot pressure reducing valve (9).

STEP 15
Remove bolts (1) and washers (2), remove plate (4) from housing (11).

NOTE: *For 4 spool configuration remove nut (38) from stud (39), remove housings (36) from housing (11).*

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299L7C

BELT TENSION TOOL CAS-10808



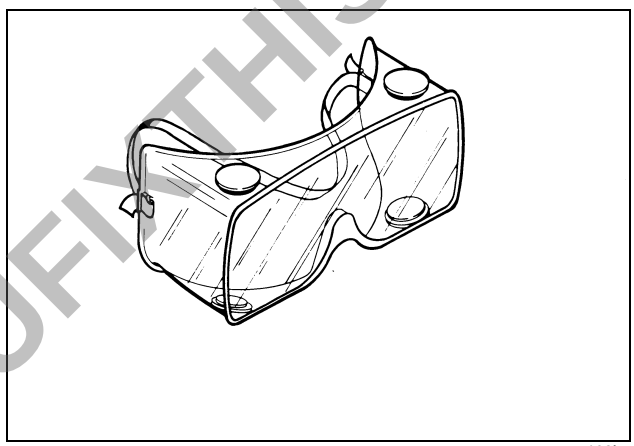
A22094

REFRIGERANT RECOVERY, RECYCLING AND CHARGING STATION, OEM-1415



A22090

ELECTRONIC LEAK DETECTOR OEM-1437



109L7

SAFETY GOGGLES CAS-10073-3

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STEP 43

Pull the heater core and evaporator core from the lower box PPE.

STEP 44

Remove the expansion valve from the evaporator core.

STEP 45

Remove and discard the O-rings from the openings in the expansion valve.

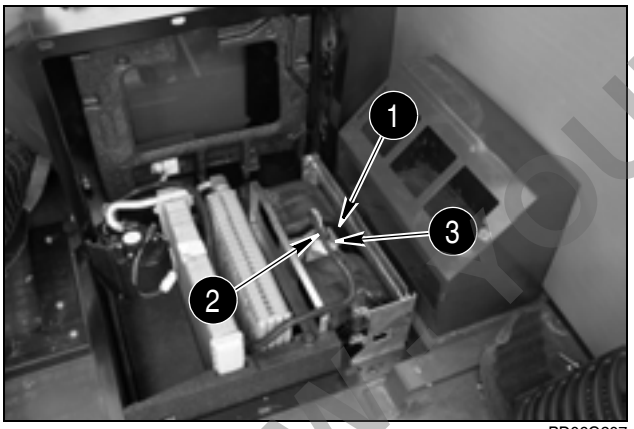
STEP 46

Remove the screws from the heater core and remove the control valve.

STEP 47

Remove and discard the O-rings from the heater control valve.

STEP 48



BD06G207

1. RESISTORS
2. RESISTOR CONNECTOR
3. BLOWER MOTOR CONNECTOR

Remove the fans from the lower PPE, disconnect the electrical connectors. Remove the two mounting screws for the resistor, remove the resistor.

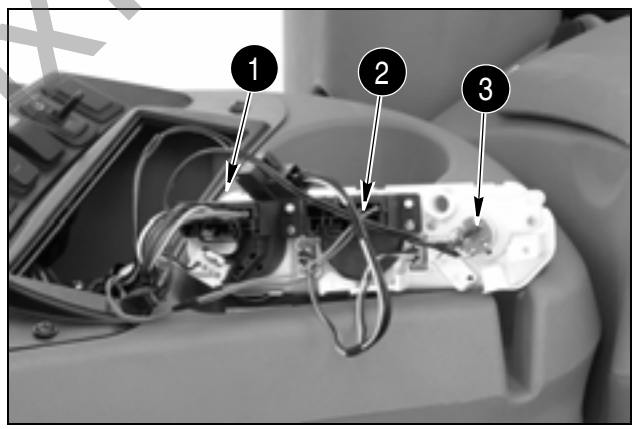
STEP 49



BD06G208

Disconnect the electrical connector for the recirculating vain motor, disconnect the linkage from the vain. Remove the mounting screws and remove the motor.

STEP 50



BD06G209

1. FAN SPEED AND A/C SWITCH
2. INSIDE/OUTSIDE AIR SELECTOR SWITCH
3. THERMOSTAT

Remove the switch panel from the console. Disconnect the electrical connectors and remove switches as required.

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