



SERVICE MANUAL
WHEEL LOADER
521E
TIER 3

84243970
(Replaces 87728450)

Revised June 2009
Issued February 2008

**521E Wheel Loader
Service Manual
84243970 (Replaces 87728450)**

Table of Contents

Description	Section No.	Form No.
General		
	Tab 1	
Section Index - General		5-10830
Standard Torque Specifications	1001	8-71603
Fluids and Lubricants	1002	5-10840
Metric Conversion Chart	1003	7-52950
Engines		
	Tab 2	
Section Index - Engines		5-10850
Engine and Radiator Removal and Installation	2000	5-10860
Stall Tests	2002	5-10870
After Cooler	2003	6-49850
For Engine Repair, See the Engine Service Manual		87630273
Fuel System		
	Tab 3	
Section Index - Fuel System		5-11830
For Fuel System Repair, See the Engine Service Manual		87630273
Electrical		
	Tab 4	
Section Index - Electrical		5-10880
Removal and Installation of Starter and Alternator	4001	5-10890
Electrical Specifications and Troubleshooting	4002	5-11190
Batteries	4003	6-42331
Instrument Cluster	4005	5-10900
Steering		
	Tab 5	
Section Index - Steering		5-10911
Removal and Installation of Steering Components	5001	5-10920
Steering Specifications, Pressure Checks, and Troubleshooting	5002	5-7410
Steering Cylinders	5005	5-10930
Center Pivot	5006	5-10940
Auxiliary Steering Motor and Pump	5008	5-10950
Joystick Steering	5009	5-17000

521E Wheel Loader Service Manual 84243970 (Replaces 87728450)

Table of Contents

Description	Section No.	Form No.
Power Train		
	Tab 6	
Section Index - Power Train		5-10960
Removal and Installation of Power Train Components	6001	5-10970
Transmission Specifications, Pressure Checks, and Troubleshooting	6002	5-11840
Transmission	6003	5-11820
Front Axle	6004	5-10980
Rear Axle	6004	84243973 Replaces 5-10990
Drive Shafts, Center Bearing, and Universal Joints	6005	5-11000
Wheels and Tires	6006	5-11010
Transmission Control Valve	6007	6-81450
Brakes		
	Tab 7	
Section Index - Brakes		5-11020
Removal and Installation of Brake Components	7001	5-11030
Hydraulic Brake Troubleshooting	7002	5-11040
Brake Pump	7003	5-11050
Brake Accumulators	7004	5-11060
Parking Brake	7008	5-11070
Hydraulics		
	Tab 8	
Section Index - Hydraulics		5-11080
How to Read Hydraulic Schematics	8000	5-5670
Removal and Installation of Hydraulic Components	8001	5-11090
Hydraulic Specifications, Troubleshooting, and Pressure Checks	8002	5-11100
Cleaning the Hydraulic System	8003	7-49641
Loader Control Valve	8005	5-11110
Cylinders	8006	5-11610
Coupler Solenoid Locking Valve	8007	6-42600
Ride Control Accumulator	8013	5-11120
Ride Control Valve	8014	5-3010

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**521E Wheel Loader
Service Manual
84243970 (Replaces 87728450)**

Table of Contents

Description	Section No.	Form No.
Mounted Equipment		Tab 9
Section Index - Mounted Equipment		5-11130
Air Conditioning Troubleshooting and System Checks	9002	5-4030
Air Conditioner System Service	9003	5-11140
Removal And Installation Of Air Conditioning And Heater Components	9004	5-11150
Loader	9006	5-11160
Roll Over Protective Structure (ROPS), Cab Structural Frame (CSF)	9007	5-11170
Cab Glass Installation	9010	6-42710
Electrical Schematic Foldouts and Hydraulic Schematic Foldout	In Rear Pocket	5-11180

***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.*


SECTION INDEX


GENERAL

Section Title	Section Number
Standard Torque Specifications	1001
Fluids and Lubricants	1002
Metric Conversion Chart	1003

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	Pound-Inches	Newton metres
1/4 inch	108 to 132	12 to 15
5/16 inch	204 to 252	23 to 28
3/8 inch	420 to 504	48 to 57
Size	Pound-Feet	Newton metres
7/16 inch	54 to 64	73 to 87
1/2 inch	80 to 96	109 to 130
9/16 inch	110 to 132	149 to 179
5/8 inch	150 to 180	203 to 244
3/4 inch	270 to 324	366 to 439
7/8 inch	400 to 480	542 to 651
1.0 inch	580 to 696	787 to 944
1-1/8 inch	800 to 880	1085 to 1193
1-1/4 inch	1120 to 1240	1519 to 1681
1-3/8 inch	1460 to 1680	1980 to 2278
1-1/2 inch	1940 to 2200	2631 to 2983


Grade 8 Bolts, Nuts, and Studs		
		
Size	Pound-Inches	Newton metres
1/4 inch	144 to 180	16 to 20
5/16 inch	288 to 348	33 to 39
3/8 inch	540 to 648	61 to 73
Size	Pound-Feet	Newton metres
7/16 inch	70 to 84	95 to 114
1/2 inch	110 to 132	149 to 179
9/16 inch	160 to 192	217 to 260
5/8 inch	220 to 264	298 to 358
3/4 inch	380 to 456	515 to 618
7/8 inch	600 to 720	814 to 976
1.0 inch	900 to 1080	1220 to 1465
1-1/8 inch	1280 to 1440	1736 to 1953
1-1/4 inch	1820 to 2000	2468 to 2712
1-3/8 inch	2380 to 2720	3227 to 3688
1-1/2 inch	3160 to 3560	4285 to 4827


NOTE: Use thick nuts with Grade 8 bolts.

TORQUE SPECIFICATIONS - METRIC HARDWARE

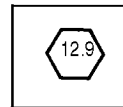
Use the following torques when specifications are not given.

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.

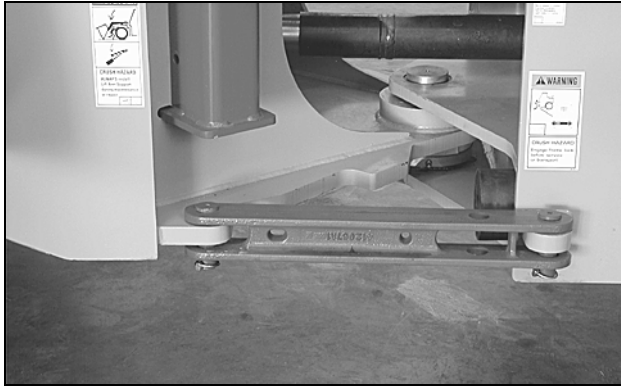
Section 2000

ENGINE AND RADIATOR REMOVAL AND INSTALLATION

ENGINE

Removal

STEP 1



BD03A040

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

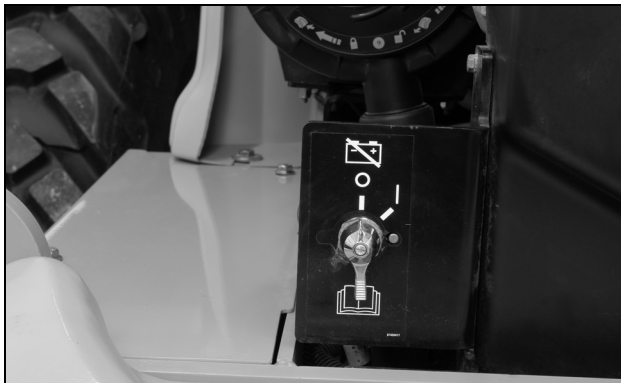
STEP 2

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.

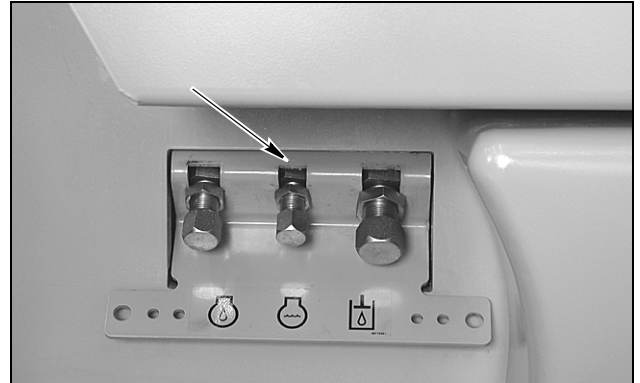
STEP 4



BD07N563-01

The master disconnect is located under the hood on the left read side of the machine. Raise the hood put master disconnect switch in OFF position. Remove both battery covers and disconnect batteries from the machine.

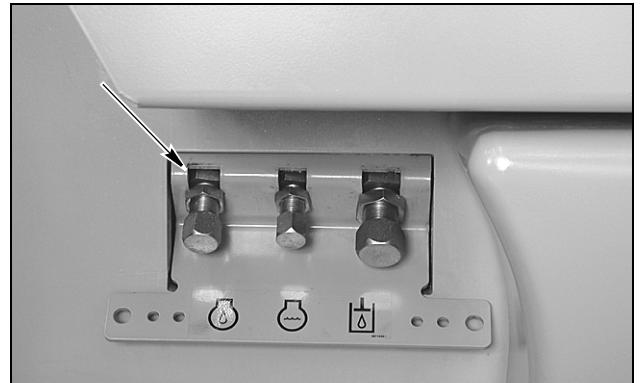
STEP 5



BD02N160

Put a container capable of holding at least 22.7 liter (6.0 gallon) below radiator drain. Remove radiator cap. Remove cap and drain coolant into container. Install cap after coolant has drained. Install radiator cap.

STEP 6

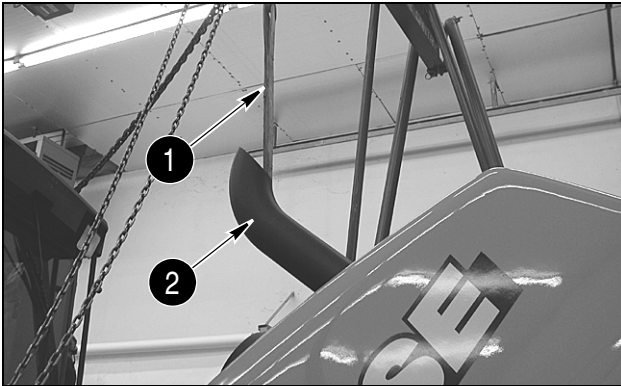


BD02N160

Put a container capable of holding at least 12.3 liter (13 U.S. quarts) 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.

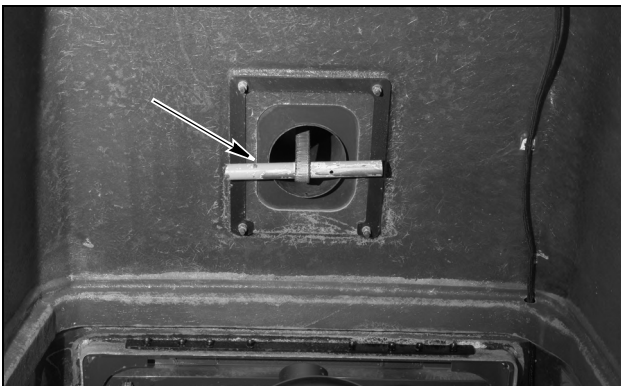
STEP 7



BD03A231

Double up a nylon lifting strap (1) and slide through the exhaust stack (2) on the hood.

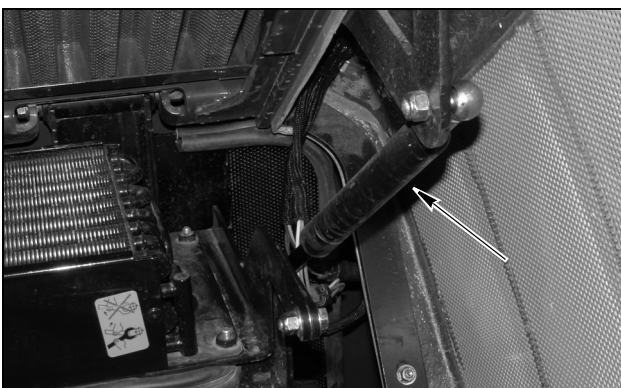
STEP 8



BD07N564-01

Place a solid steel bar through the strap, raise the hood and release tension on the lifting motor.

STEP 9



BD07N597-01

Remove the right front lift cylinder from the hood. Repeat the procedure for the left hand side.

STEP 10



BD07N565-01

Remove the rear lift cylinder from the machine.

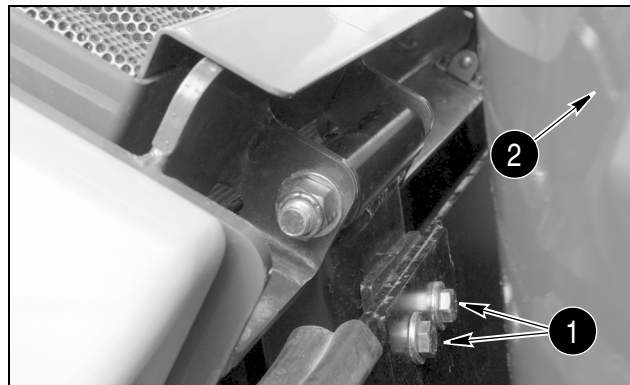
STEP 11



BD07N566-01

Tag and disconnect hood wiring harness connector and backup alarm connector from rear chassis wiring harness connector.

STEP 12



BD07N567-01

Have another person balance the hood, and remove the hood hinge mounting bolts (1) located outside the hood by the cab (2) from the cooler frame. Repeat procedure for the other side.

STEP 13



BD03A232

Carefully raise and remove hood from loader. Lower hood onto suitable platform and disconnect lifting equipment.

STEP 14



BD07N568-01

Tag and disconnect engine wiring harness connector from air filter restriction switch.

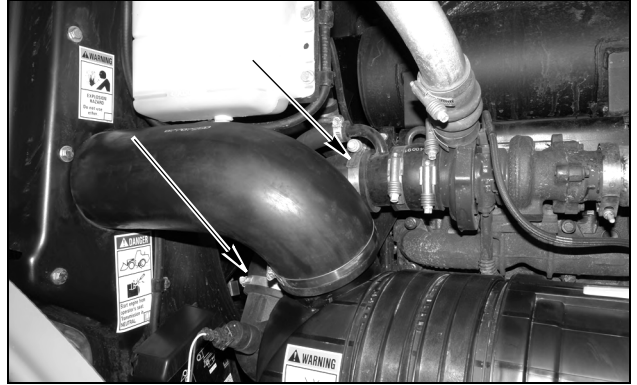
STEP 15



BD07N569-01

Loosen clamp on air cleaner intake hose and remove the crankcase ventilation hose.

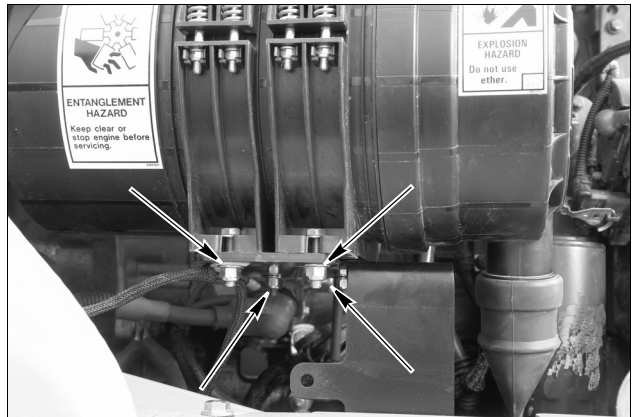
STEP 16



BD07N569-01

Loosen clamps on turbocharger and air cleaner, remove the intake hose.

STEP 17



BD07N590-01

Remove the air cleaner by removing the four bolts.

STEP 18



BD07N569-01

Loosen the clamp on the turbocharger for the after cooler inlet hose.

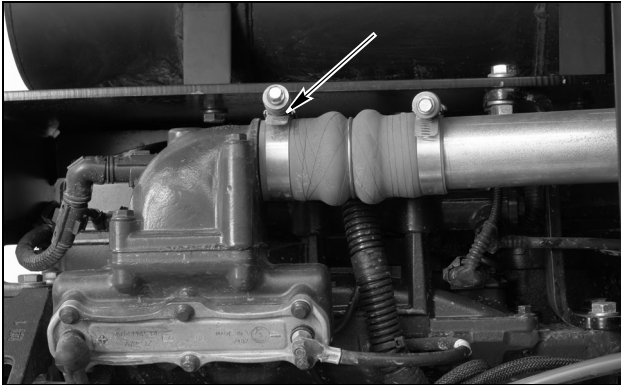
STEP 19



BD07N565-01

Loosen the clamp on the after cooler and remove the after cooler inlet hose from the machine.

STEP 20



BD07N570-01

Loosen the clamp on the intake manifold for the after cooler output hose.

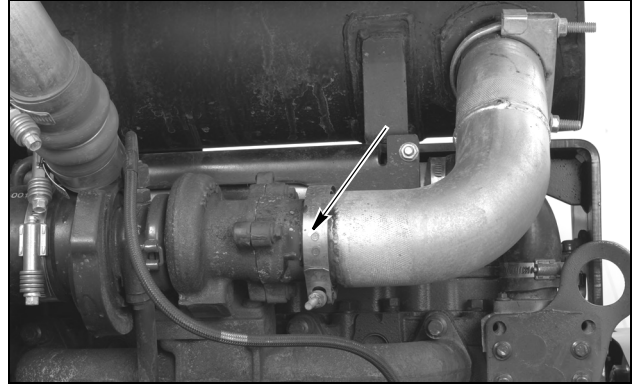
STEP 21



BD07N571-01

Loosen the clamp on the after cooler and remove the after cooler outlet hose from the machine.

STEP 22



BD07N572-01

Loosen the exhaust clamp from the turbocharger.

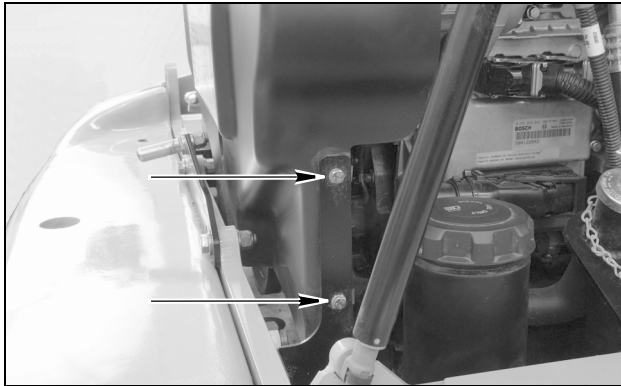
STEP 23



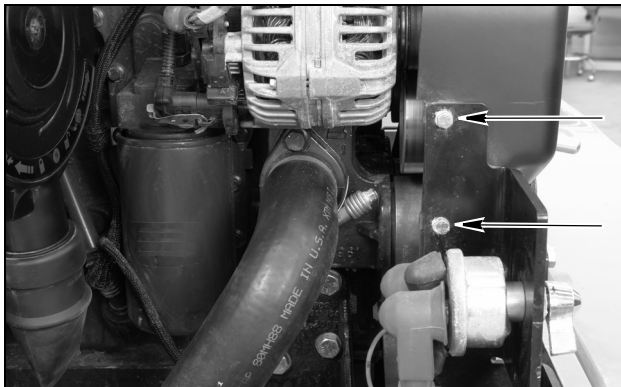
BD07N592-01

Remove the muffler from the bracket.

STEP 24



BD07N600-01



BD07N573-01

Remove the four mounting bolts from the belt cover, remove the cover.

NOTE: After removing the belt cover remove the cover mounting brackets from the machine frame.

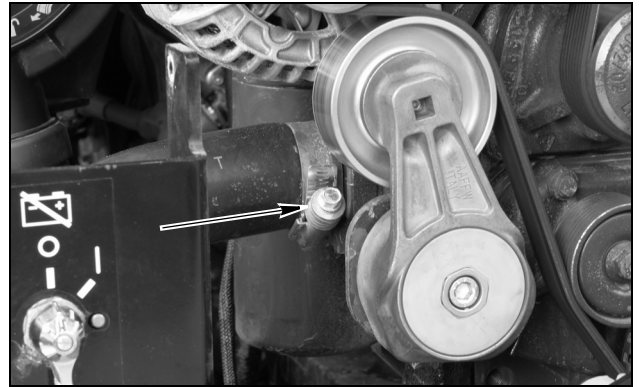
STEP 25



BD07N576-01

Remove the drive belt from the engine.

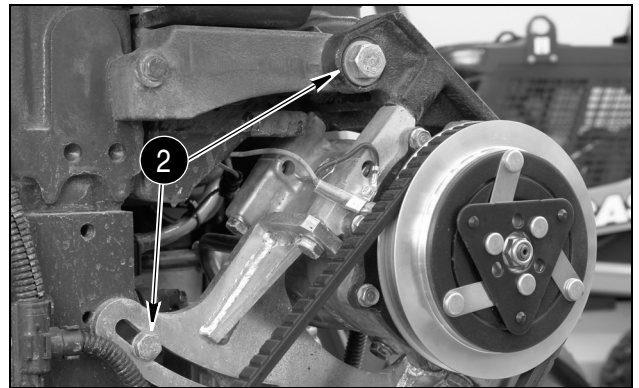
STEP 26



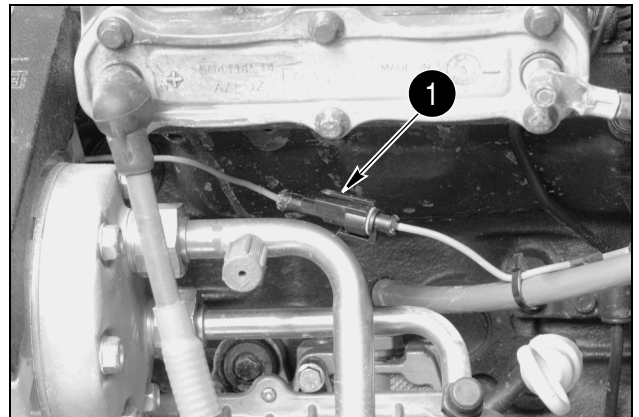
BD07N577-01

Loosen clamps and remove lower cooler hose from the engine.

STEP 27



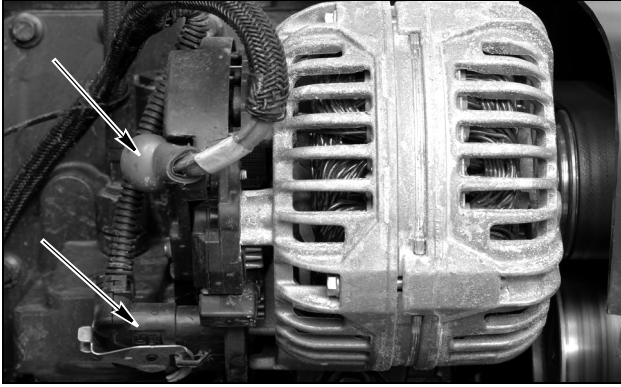
BD07N579-01



BD07N578-01

If loader is equipped with air conditioning, identify, tag, and disconnect the engine wiring harness connectors from air compressor clutch connector (1). Remove the two mounting bolts (2) for the compressor and set the compressor on the left battery cover.

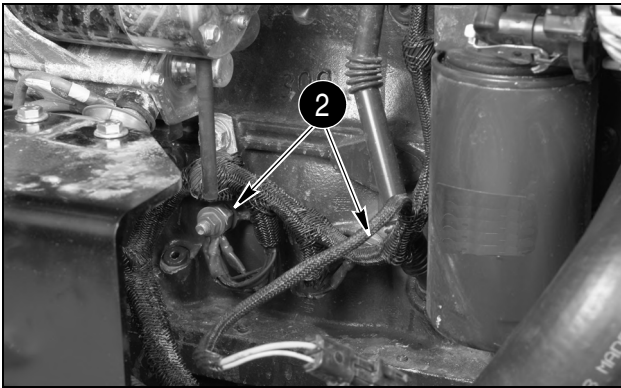
STEP 28



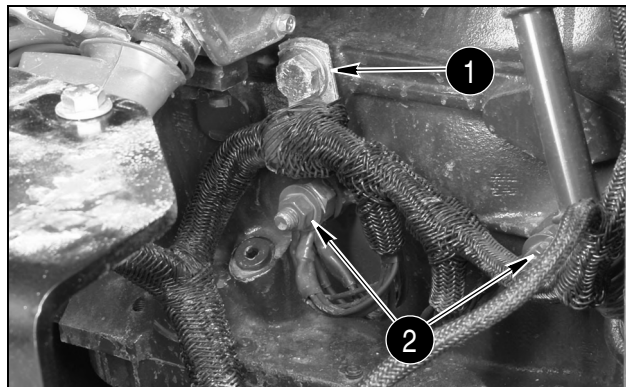
BD07N575-01

Tag and disconnect the wiring from the alternator.

STEP 29



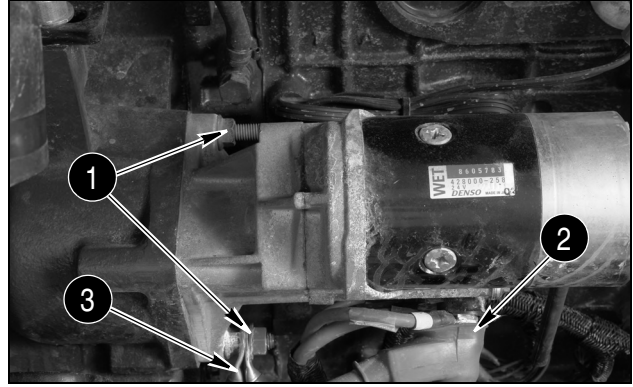
BD07N580-01



BD07N582-01

Remove bolt securing wiring harness clamp (1) to the engine. Remove ground wires (2) from the engine.

STEP 30

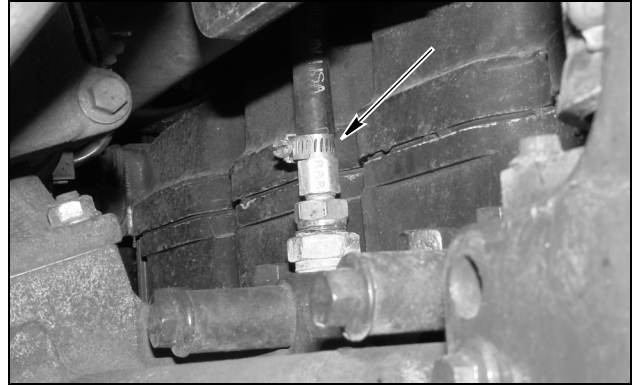


BD07N581-01

Tag and remove the wires from the starter solenoid (2), remove the ground cable and ground strap (3) from the starter. Then remove the two mounting bolts (1).

NOTE: Move the starter cables away from the engine, move the wiring harness away from the engine.

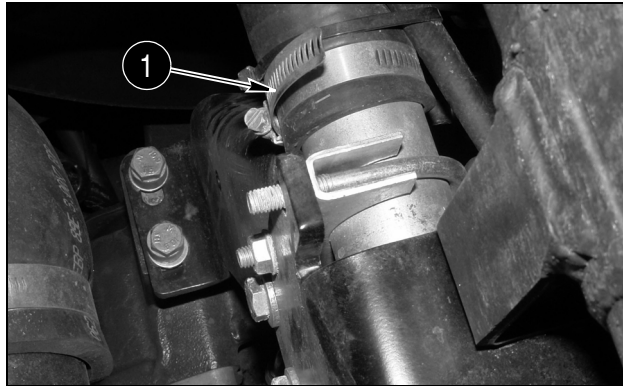
STEP 31



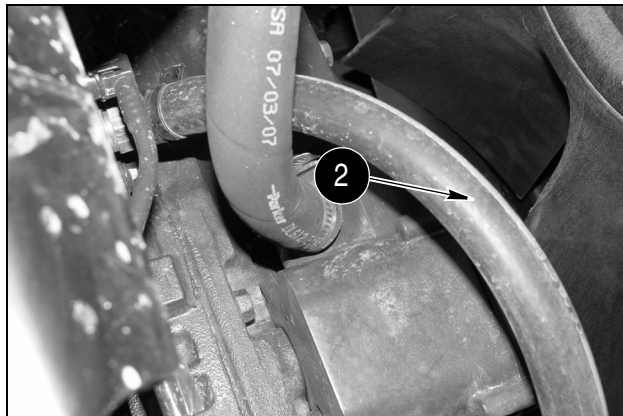
BD07N599-01

Disconnect the engine coolant vent hose and route to the rear of the engine.

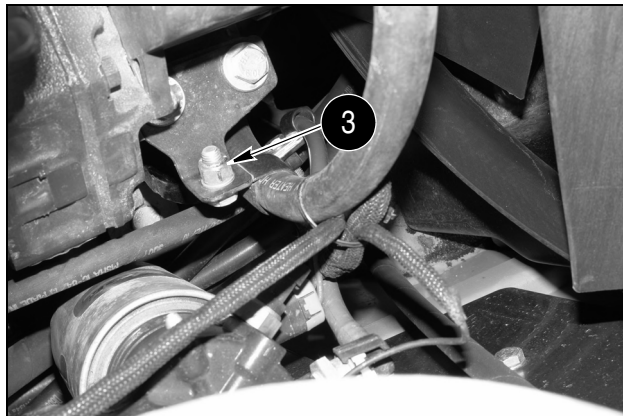
STEP 32



BD07N596-01



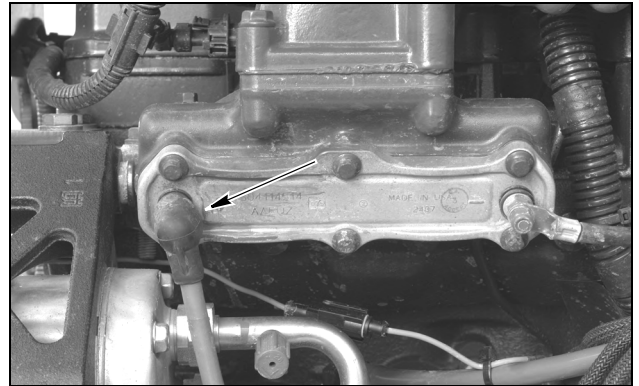
BD07N583-01



BD07N584-01

Remove the radiator hose (1) from the rear of the engine, remove the heater hose from the rear of the engine (2), remove the clamp bolts and clamps (3) from the bell housing.

STEP 33



BD07N585-01

Tag and remove the grid heater cable.

STEP 34

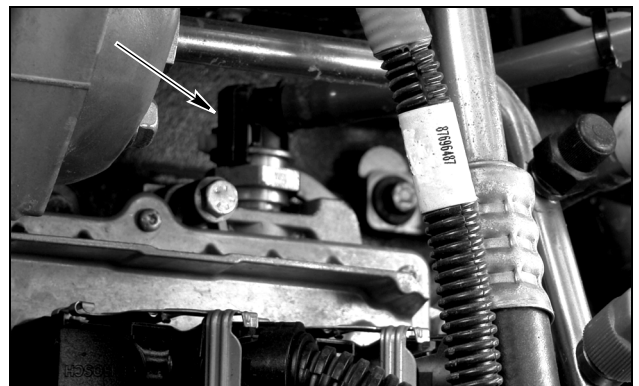


BD07N586-01

Disconnect the wiring harness from the EDC 7 controller.

NOTE: *Lifting up on the lever will release the connector from the controller.*

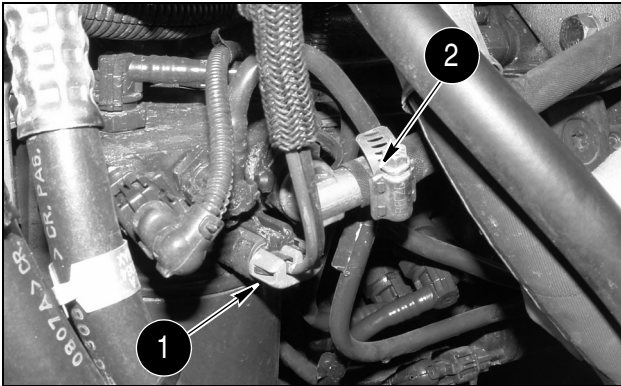
STEP 35



BD07N591-01

Remove the fuel line from the top of the EDC 7 controller, plug the line and cap the fitting.

STEP 36



BD07N598-01

Tag and disconnect the fuel filter heater wires (1), disconnect the fuel line (2) from the fuel filter head, plug the line and cap the fitting.

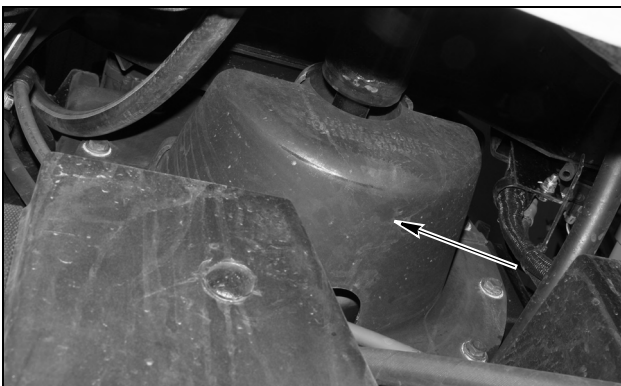
STEP 37



BD07N588-01

Connect and turn on vacuum pump to hydraulic reservoir. Tag and remove the hydraulic lines from the brake system pump, plug the lines and cap the fittings.

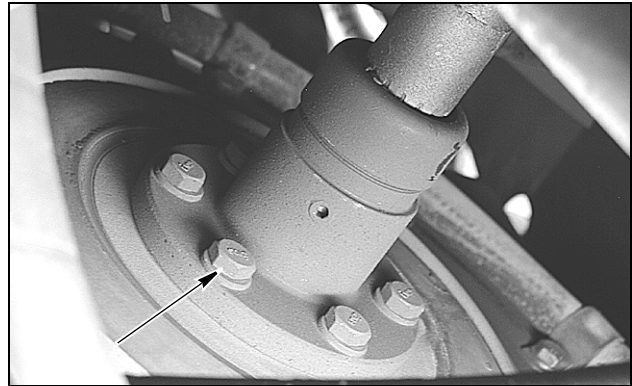
STEP 38



BD07N589-01

Remove the lower cover for the drive shaft.

STEP 39



BD03A172

Remove the drive shaft bolts from the flywheel. Move the drive shaft clear of the flywheel.

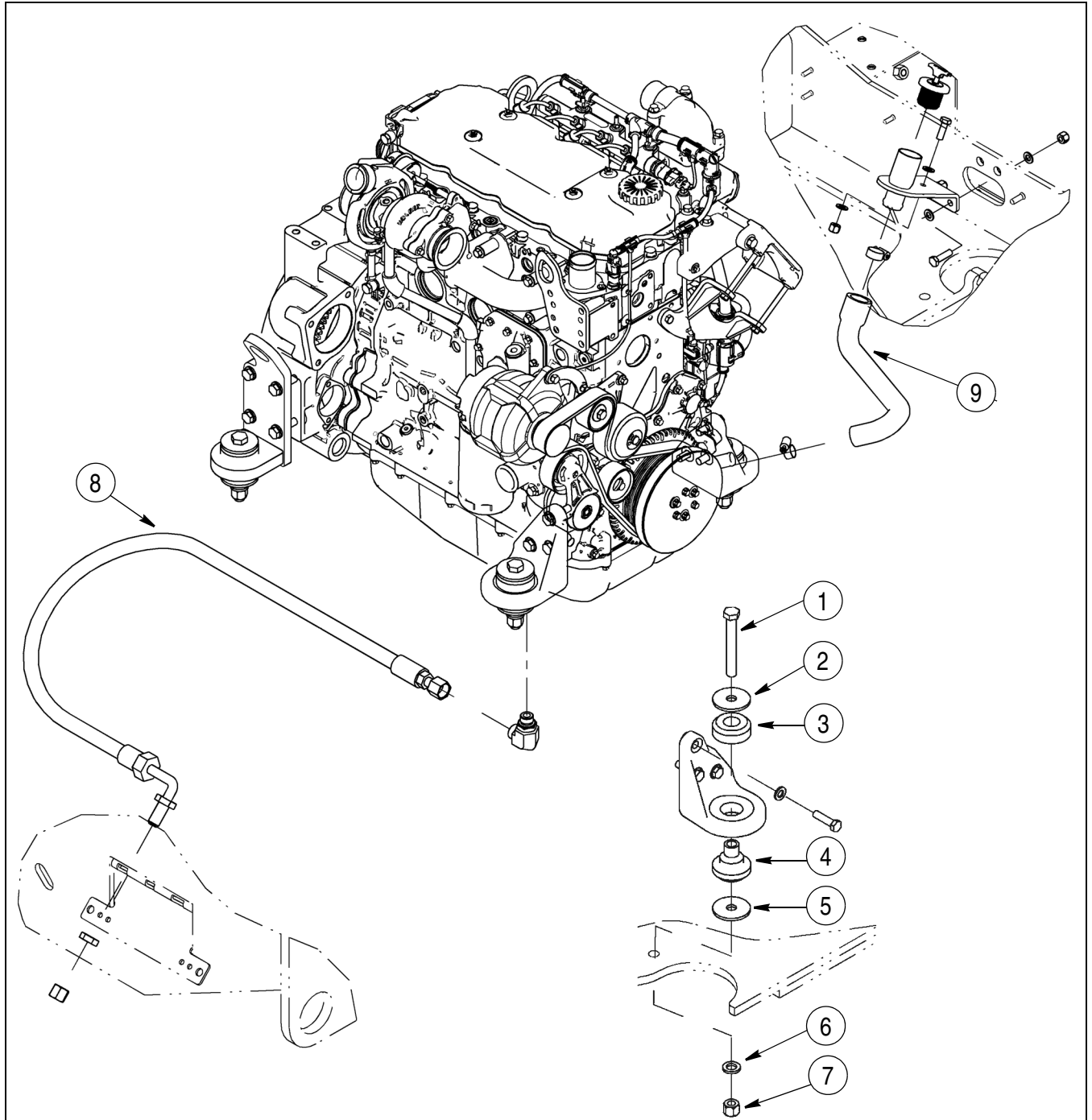
STEP 40

Connect suitable lifting equipment to engine lifting brackets. Take up all slack in lifting equipment. Remove the engine mounting bolts and lift the engine enough to gain access to the drain hose, pull the engine oil drain hose with the engine.

STEP 41

Slowly raise engine from rear chassis. Be sure all harness connections and hoses have been disconnected and are clear of the engine. Remove engine from machine.

Installation



BS08A031

- | | | | | |
|----------------------|--------------------|-----------|--------------------------|------------------|
| 1. ENGINE MOUNT BOLT | 3. INSOLATOR UPPER | 5. WASHER | 7. NUT | 9. OIL FILL TUBE |
| 2. WASHER | 4. INSOLATOR LOWER | 6. WASHER | 8. REMOTE OIL DRAIN HOSE | |

STEP 42

If engine rubber isolators require replacement, remove and discard isolators (3 and 4). Install new rubber isolator (4), then rubber isolator (3).

STEP 43

Slowly raise engine and move into position over rear chassis. Be sure all harness connections and hoses are out of the way then lower engine. Put washer (5) between front rubber isolator (4) and chassis. Install washer (2), bolt (1), washer (6), and nut (7) in engine isolators. Lower engine into position.

STEP 44

Tighten engine mounting bolts to a torque of 244 to 298 Nm (180 to 220 lb-ft).

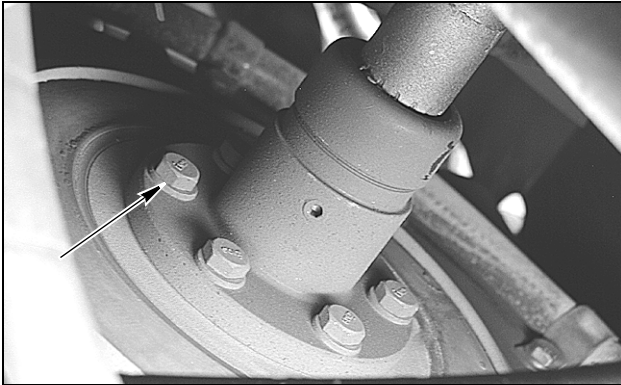
STEP 45

Disconnect lifting equipment from engine lifting brackets.

STEP 46

Connect engine oil drain hose to frame bracket.

STEP 47



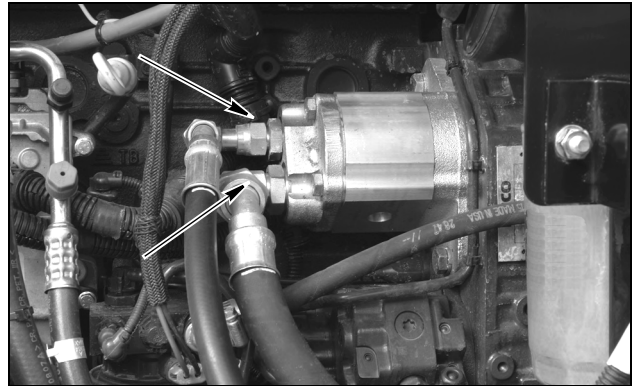
At front of engine, position drive shaft on engine coupling. Install six bolts to secure drive shaft to engine coupling. Apply Loctite 242 to threads and tighten the six bolts to a torque of 53 to 62 Nm (39 to 46 lb-ft).

STEP 48



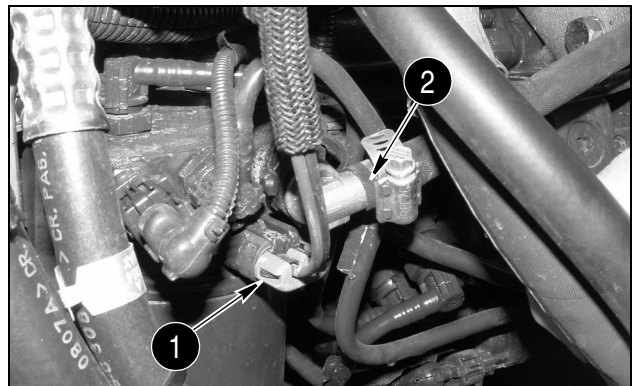
Install the lower cover for the drive shaft.

STEP 49



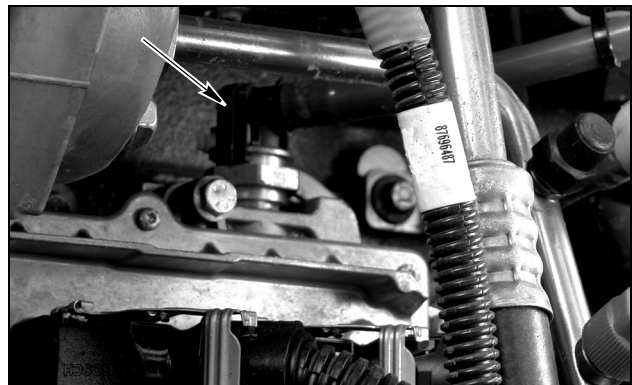
Connect and turn on vacuum pump to the hydraulic reservoir. Remove caps from fittings and plugs from hoses. Connect hoses to brake pump following tags installed during removal. Remove and discard tags. Turn off and disconnect vacuum pump from hydraulic reservoir.

STEP 50



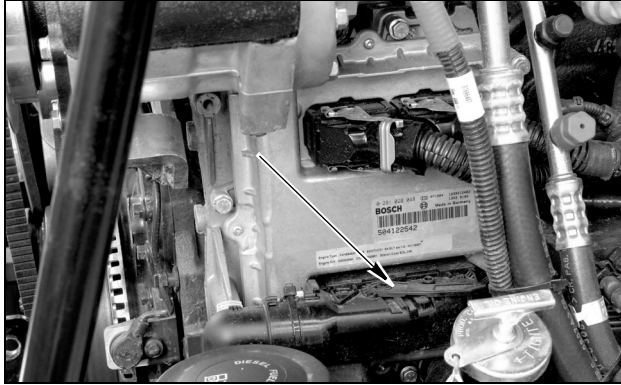
Remove cap from fitting and plug from the hose, connect fuel line (2). Connect fuel filter heater wires (1). Remove and discard tag.

STEP 51



Remove cap from fitting and plug from the hose, connect fuel line to EDC 7.

STEP 52

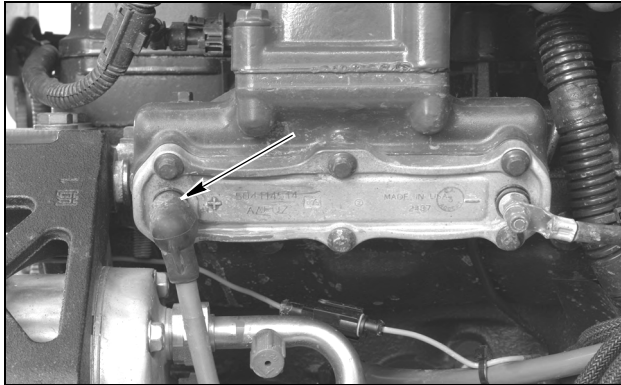


BD07N586-01

Connect wiring harness to EDC 7 controller.

NOTE: Start the connector on the EDC 7 with lever straight out from EDC 7. Use lever to pull connector into position.

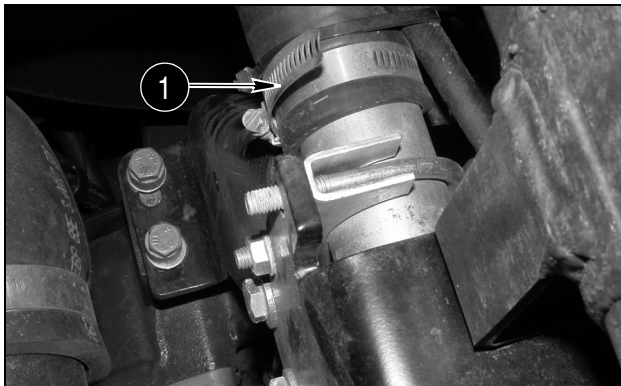
STEP 53



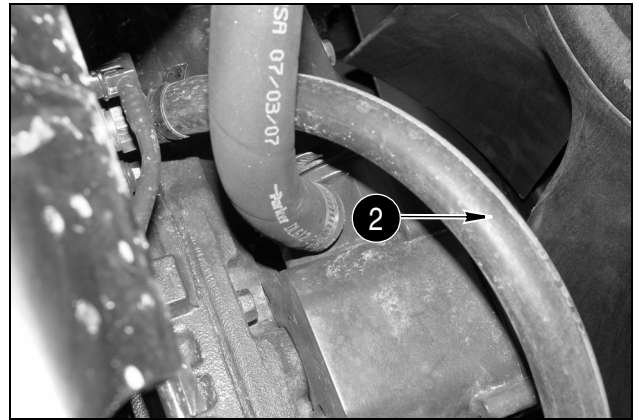
BD07N585-01

Connect grid heater cable to grid heater. Remove and discard tag.

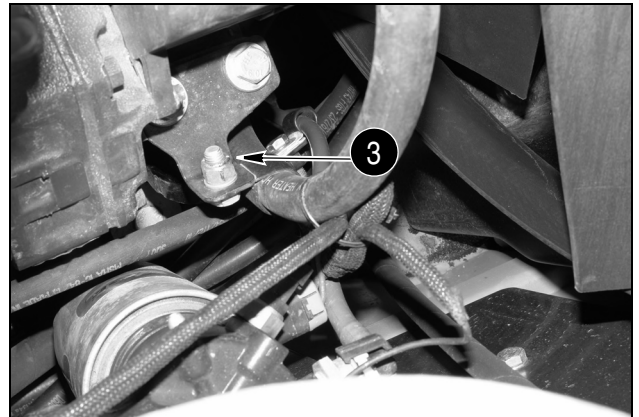
STEP 54



BD07N596-01



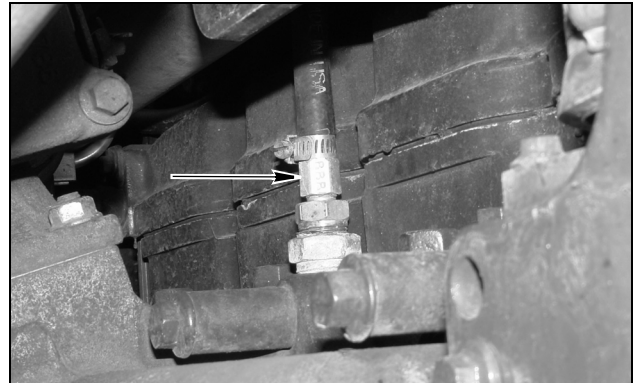
BD07N583-01



BD07N584-01

Install the heater hose (2) to the rear of the engine, mount the clamps (3), install the radiator hose (1).

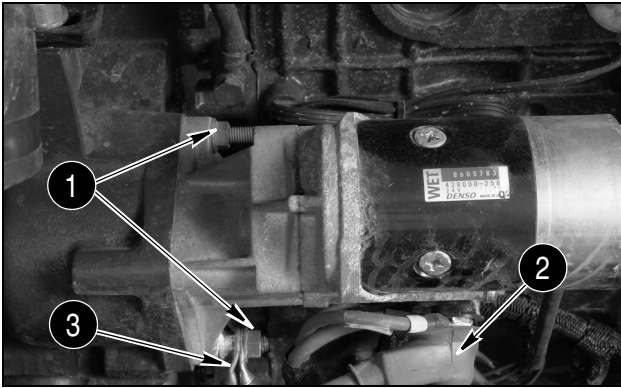
STEP 55



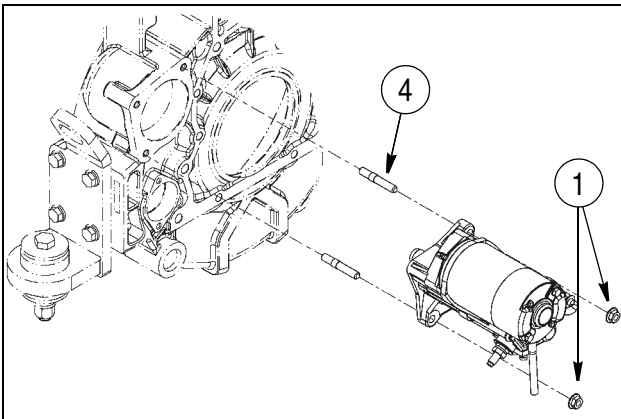
BD07N599-01

Connect the engine coolant vent hose.

STEP 56



BD07N581-01

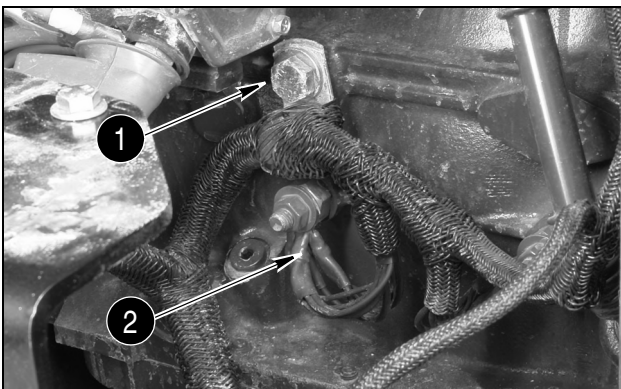


BS08A030

Install the wires (2) to the starter solenoid, install the ground cable and ground strap (3), to the starter. Torque starter mounting nuts (1) to 40 to 50 Nm (29 to 37 pound-feet). Remove and discard tags.

NOTE: If the starter mounting studs (4) have to be replaced apply Loctite 747 primer to studs and holes and apply Loctite 271 to each stud and hole and torque to 19 to 29 Nm (14 to 21 pound-feet).

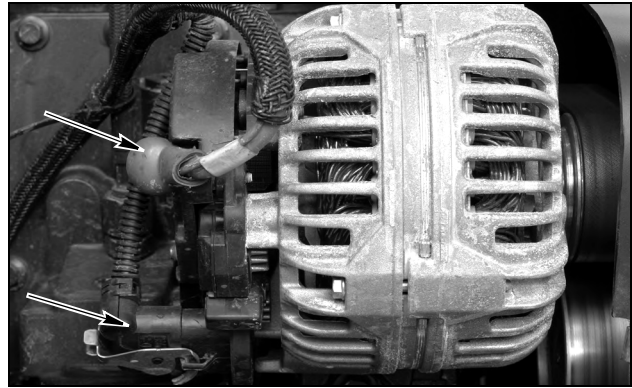
STEP 57



BD07N582-01

Install bolt securing wiring harness (1) clamp to the engine. Install ground wires (2) to the engine.

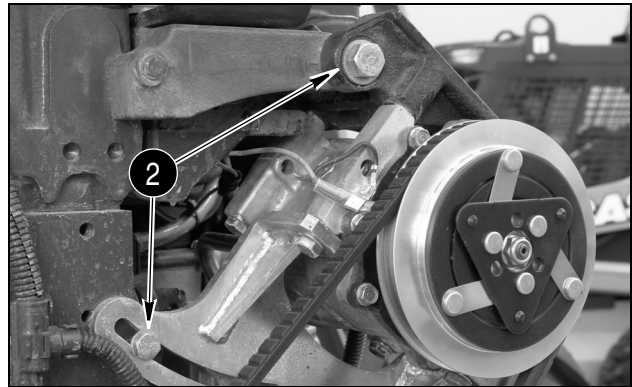
STEP 58



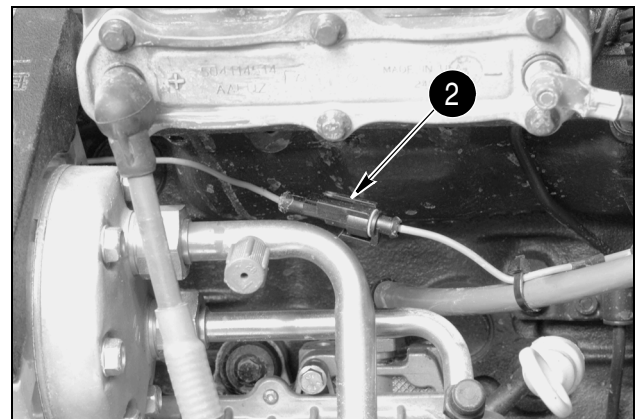
BD07N575-01

Connect the wiring to the alternator. Remove and discard tags.

STEP 59



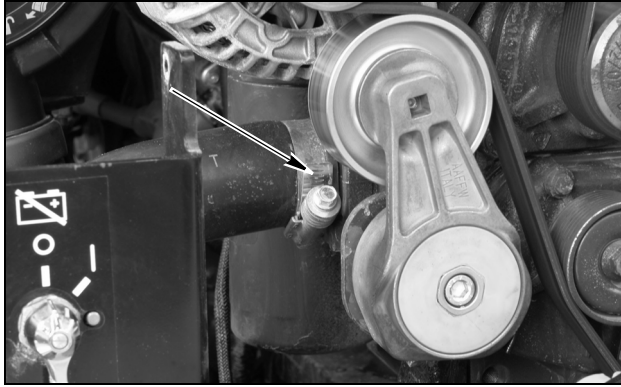
BD07N579-01



BD07N578-01

If loader is equipped with air conditioning, mount the compressor using the two mounting bolts (2), connect the engine wiring harness connectors to air compressor clutch connector (1). Remove and discard tags.

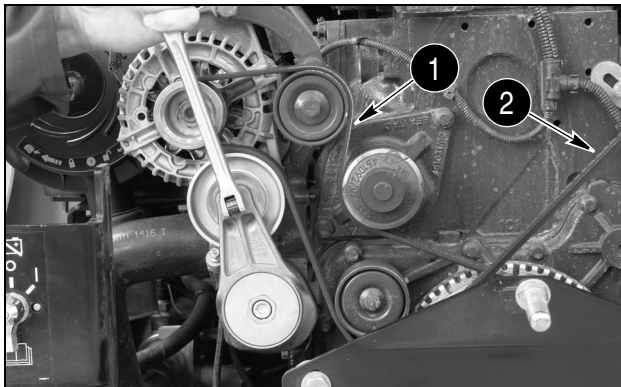
STEP 60



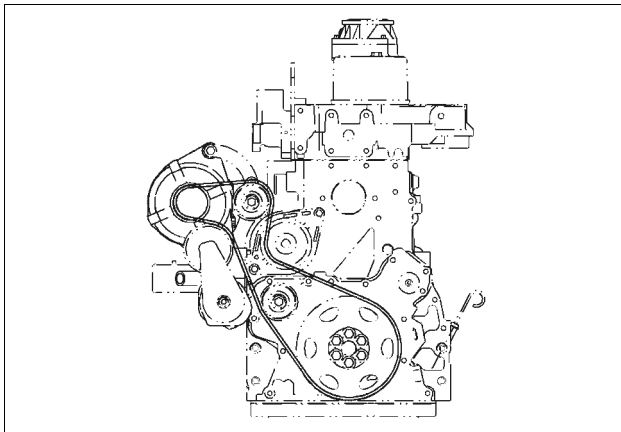
BD07N577-01

Install lower cooler hose to the engine and tighten the clamps to a torque of 10.1 to 11.3 Nm (90 to 100 lb-inch).

STEP 61



BD07N576-01



BS08A051

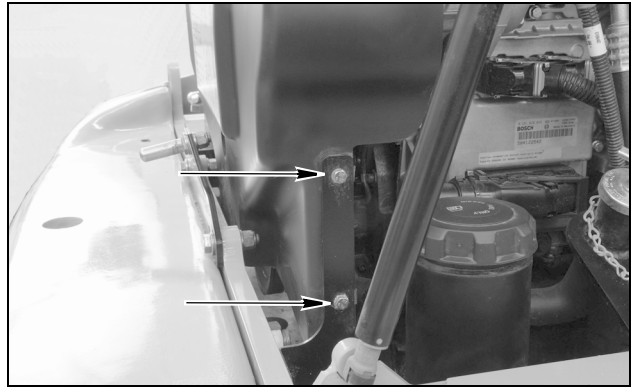
DRIVE BELT ROUTING W/O AC (SEPARATE BELT FOR AC)

Install the drive belt (1) on the pulleys. If equipped with air conditioning install belt (2).

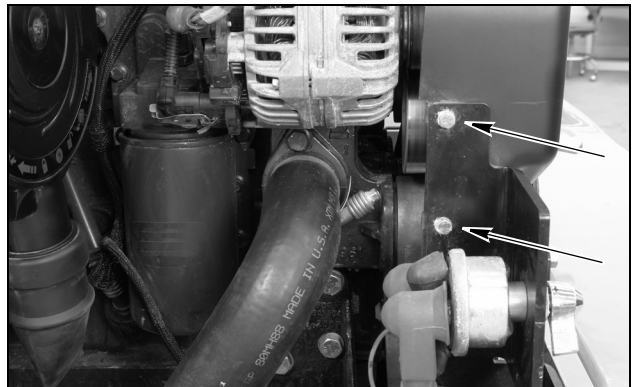
NOTE: A/C compressor belt tension:

- A. Tension for a new belt is 45 Kg (100 lbs.).
- B. Tension for a belt used more than 20 hours is 41 Kg (90 lbs).

STEP 62



BD07N600-01



BD07N573-01

Install the cover mounting brackets to the machine frame. Install the belt cover, install the four mounting bolts for the belt cover.

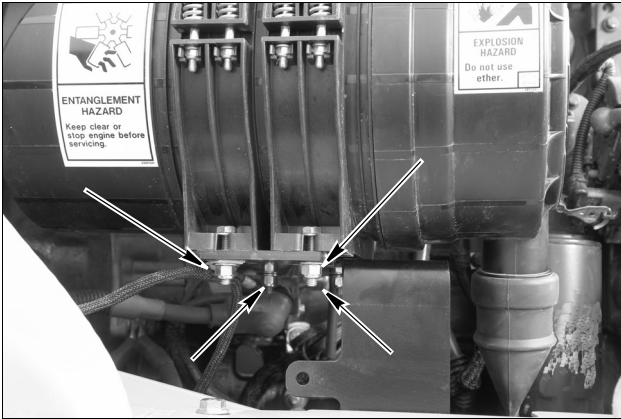
STEP 63



BD07N592-01

Place the muffler on the bracket. Install the mounting bolts in the muffler and leave loose at this time.

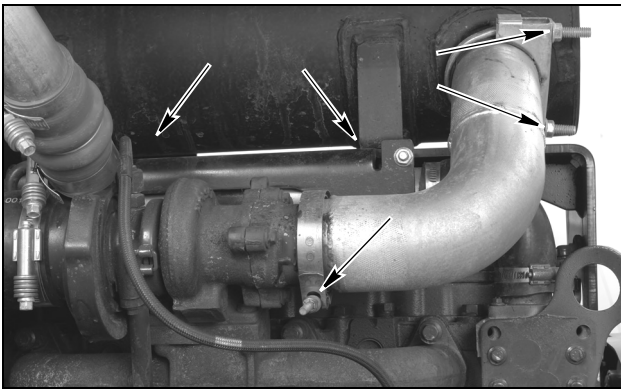
STEP 64



BD07N590-01

Place air cleaner on bracket. Install four mounting bolts in air cleaner and tighten.

STEP 65



BD07N572-01

Install and tighten the exhaust clamp on the turbocharger, tighten the muffler mounting bolts.

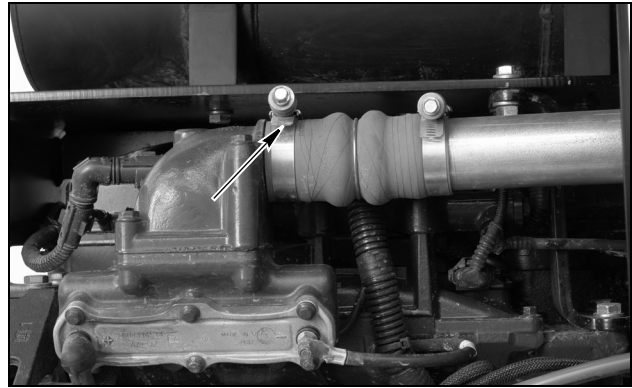
STEP 66



BD07N571-01

Place the after cooler outlet hose on the machine. Tighten the clamp on the after cooler.

STEP 67



BD07N570-01

Tighten the clamp on the intake manifold for the after cooler output hose.

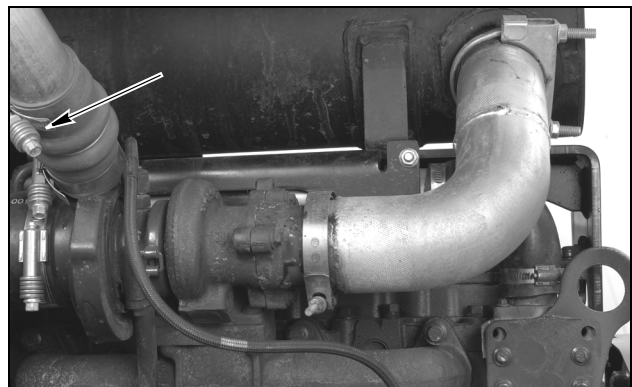
STEP 68



BD07N565-01

Place the after cooler inlet hose on the machine. Tighten the clamp on the after cooler.

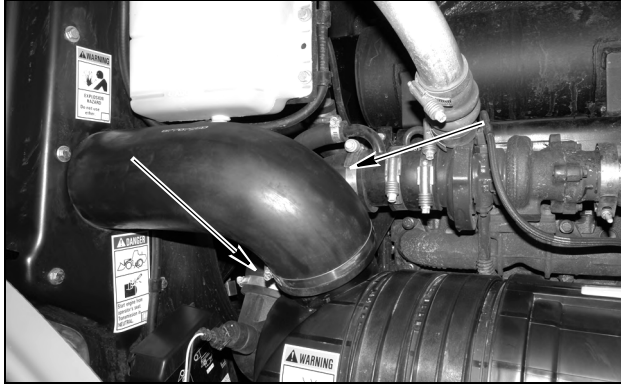
STEP 69



BD07N572-01

Tighten the clamp on the turbocharger for the after cooler inlet hose.

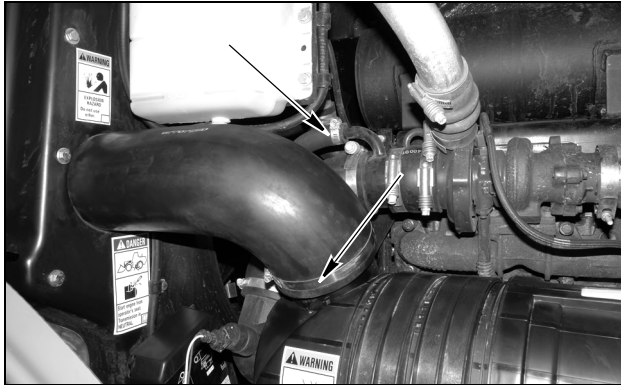
STEP 70



BD07N569-01

Install the intake hose and tighten the clamps on turbocharger and air cleaner.

STEP 71



BD07N569-01

Install the crankcase ventilation hose and tighten the clamp on air cleaner intake hose.

STEP 72



BD07N568-01

Connect engine wiring harness connector to air filter restriction switch. Remove and discard tag.

STEP 73

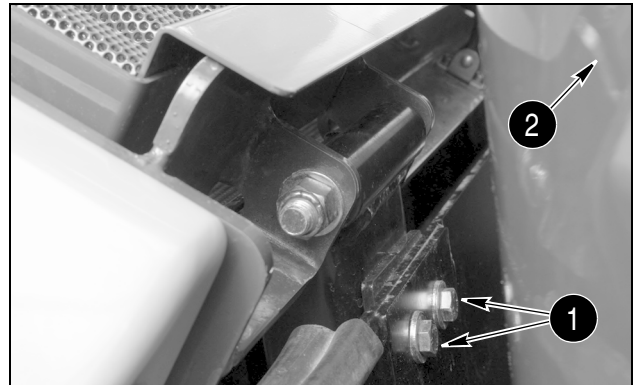


BD03A232

Carefully raise and place hood over loader.

NOTE: Refer to step 7 and 8 of removal for lifting procedure.

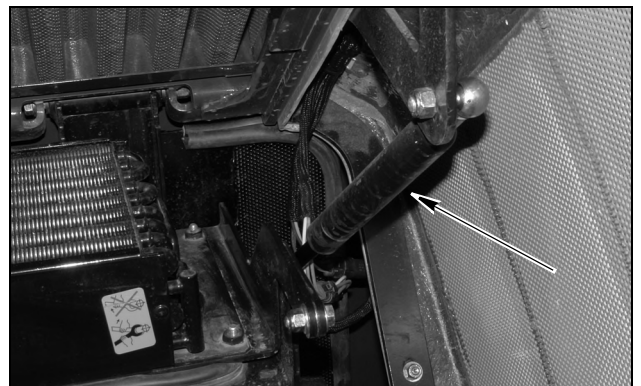
STEP 74



BD07N567-01

Have another person balance the hood. Install the hood hinge mounting bolts (1) to the cooler frame (2) located outside the hood by the cab from the cooler frame. Repeat procedure for the other side.

STEP 75



BD07N597-01

Install the right front lift cylinder from the hood. Repeat the procedure for the left hand side.

STEP 76



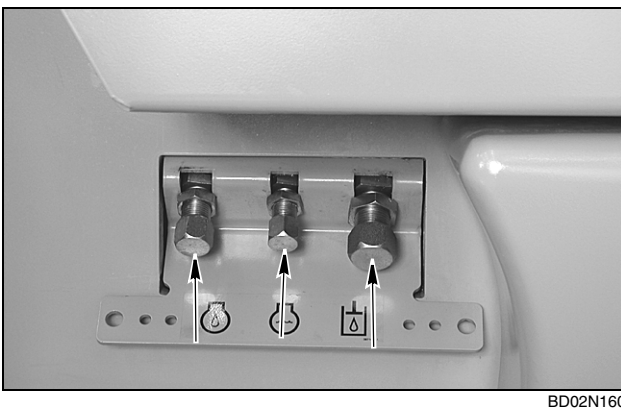
Install the rear lift cylinder on the machine.

STEP 77



Connect hood wiring harness connector and backup alarm connector to the rear chassis wiring harness and remove tags.

STEP 78



Check and make sure that drain caps are tight.

STEP 79

Install a new oil filter on engine. Fill engine with 11.8 liters (12.5 quarts) of Case AKCELA No. 1 Engine Oil (SAE 15W-40).

STEP 80

If hydraulic reservoir was drained, fill reservoir with 113.6 liters (30.0 gallons) of Case AKCELA Hy-Tran Ultra® fluid.

STEP 81

Fill engine coolant system with a solution of 50% Ethylene Glycol and 50% water. Cooling system capacity is 22 liters (5.8 gallons). Install the radiator cap. Fill the coolant reservoir up to the FULL mark on the reservoir.

STEP 82



Connect the batteries, install battery covers, put master disconnect switch in ON position.

STEP 83

Start engine and run the engine at low idle. Run the engine at operating temperature for approximately five minutes to completely mix the Ethylene Glycol and water. When the coolant is at operating temperature, stop the engine. When engine has cooled, check the coolant level at the reservoir.

WARNING: *Hot coolant can spray out if radiator cap is removed. To remove radiator cap: Let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap.*

STEP 84

Lower the hood.

STEP 85

Put articulation lock in OPERATING position.

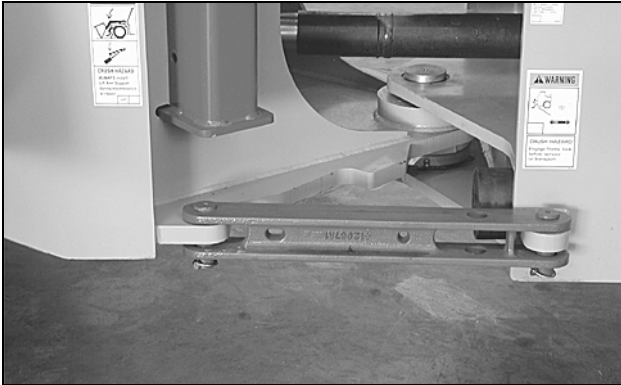
RADIATOR

Removal

STEP 1

Park loader on level surface and lower bucket to ground. Apply parking brake and shut down engine.

STEP 2



BD03A040

Put articulation lock in LOCKED position.

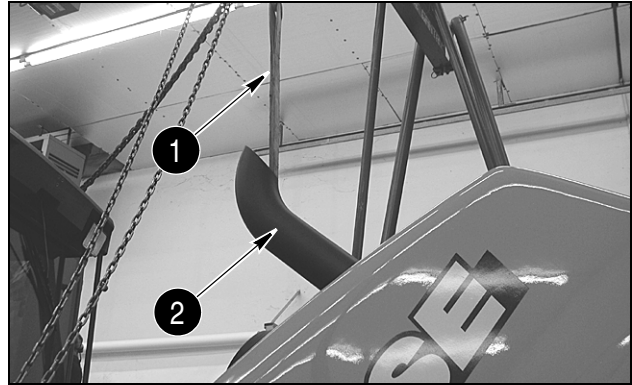
STEP 3



BD07N563-01

Put master disconnect switch in OFF position.

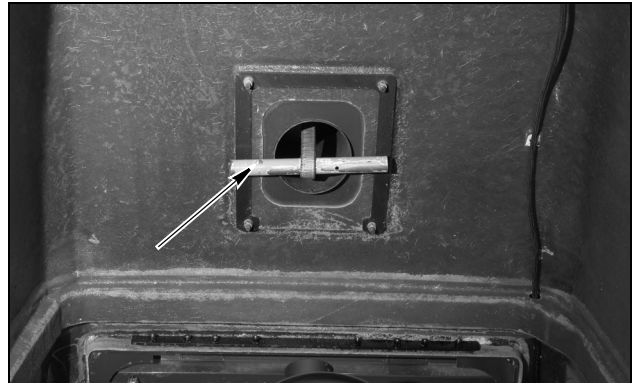
STEP 4



BD03A231

Double up a nylon lifting strap (1) and slide through the exhaust stack (2) on the hood.

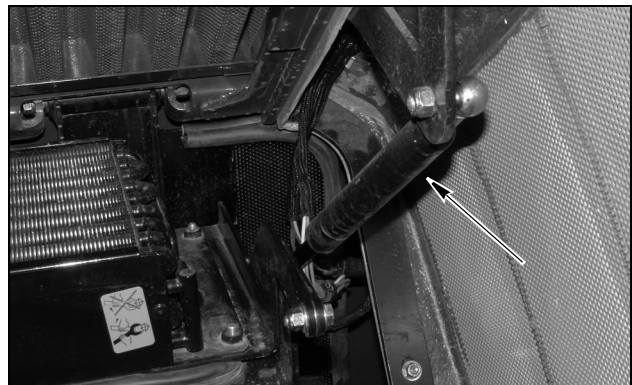
STEP 5



BD07N564-01

Place a solid steel bar through the strap, raise the hood and release tension on the lifting motor.

STEP 6



BD07N597-01

Remove the right front lift cylinder from the hood. Repeat the procedure for the left hand side.

STEP 7



BD07N565-01

Remove the rear lift cylinder from the machine.

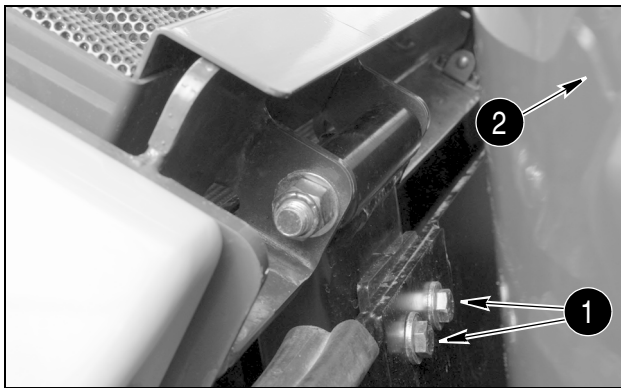
STEP 8



BD07N566-01

Tag and disconnect hood wiring harness connector and backup alarm connector from rear chassis wiring harness connector.

STEP 9



BD07N567-01

Have another person balance the hood, and remove the hood hinge mounting bolts (1) located outside the hood by the cab (2) from the cooler frame. Repeat procedure for the other side.

STEP 10



BD03A232

Carefully raise and remove hood from loader. Lower hood onto suitable platform and disconnect lifting equipment.

STEP 11



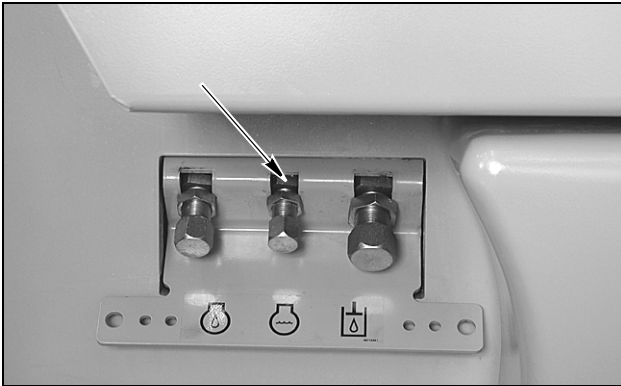
BD07N593-01



BD07N594-01

Remove two bolts and washers securing LH fender. Remove LH fender.

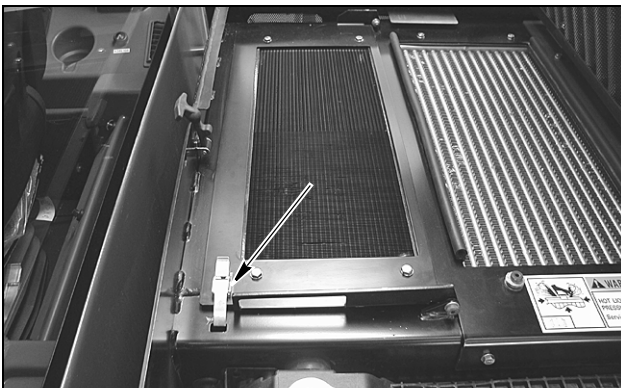
STEP 12



BD02N160

Put a 22.7 liter (6 gallon) container below radiator drain. Remove radiator cap then remove cap and drain coolant into container. Install cap after coolant has drained. Install radiator cap.

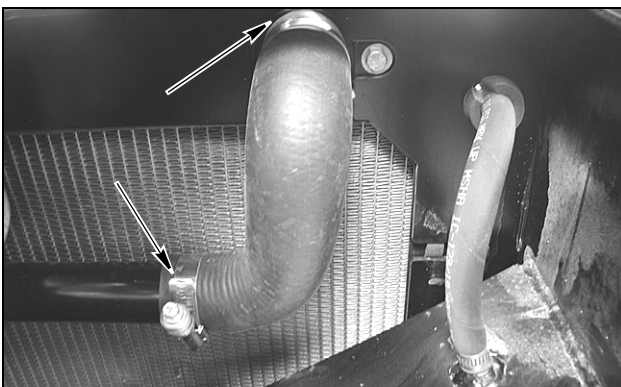
STEP 13



BD03A109

Release catch and tilt air conditioning condenser core up to gain access to upper radiator hose.

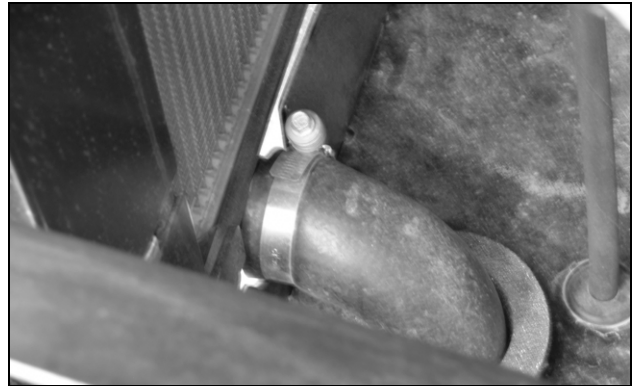
STEP 14



BD03A108

Loosen the upper radiator hose clamps, remove the hose.

STEP 15



BD06F129

Loose and remove the lower radiator hose from the radiator.

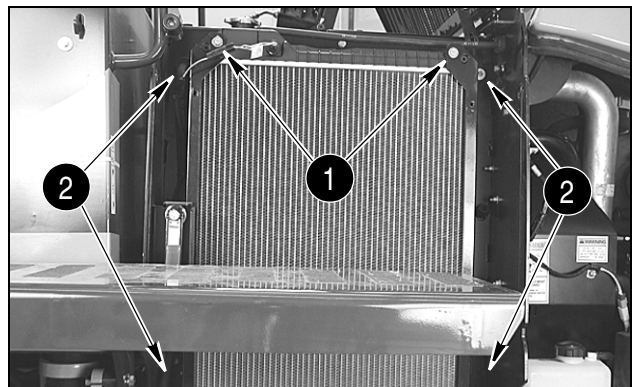
STEP 16



BD03A113

Disconnect overflow hose from radiator. Disconnect connector from coolant level sender.

STEP 17



BD03A106

Remove screws and install lifting eyes (1). Attach suitable lifting equipment to lifting eyes. Remove four mounting bolts (2), remove radiator from machine.



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first, and then click the above link

to download the complete manual.

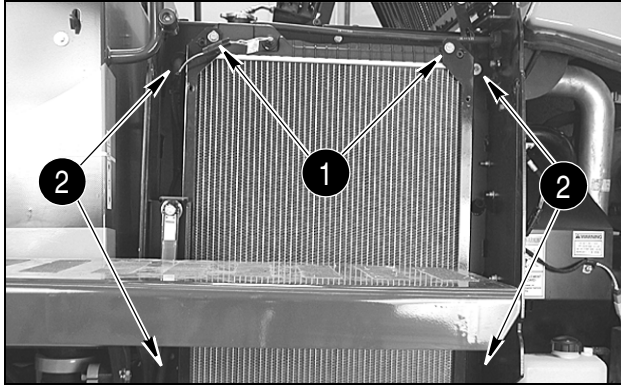
Thank you so much for reading

Installation

STEP 18

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

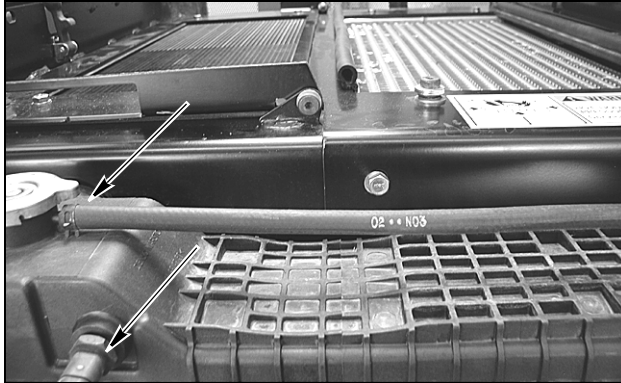
STEP 19



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).

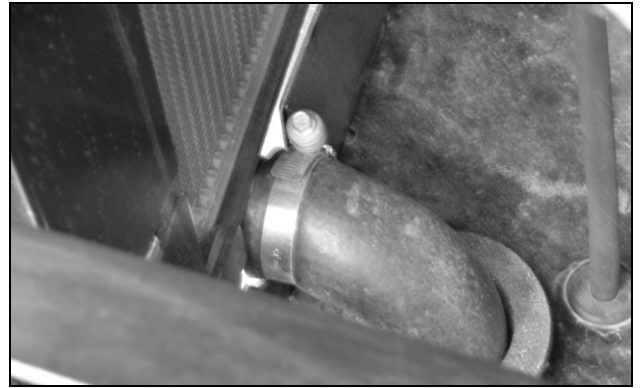
STEP 20



BD03A113

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

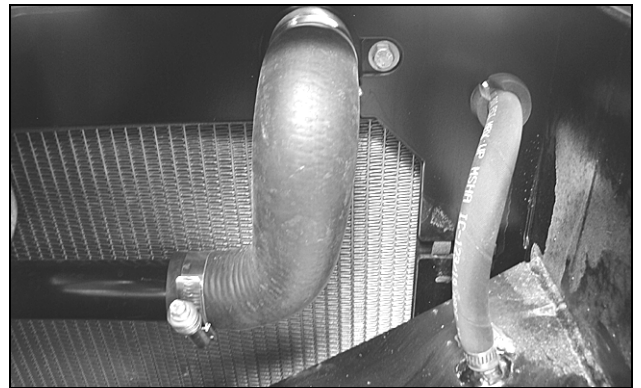
STEP 21



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 22



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).

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