



NEW HOLLAND
TG210
TG230
TG255
TG285

REPAIR
MANUAL



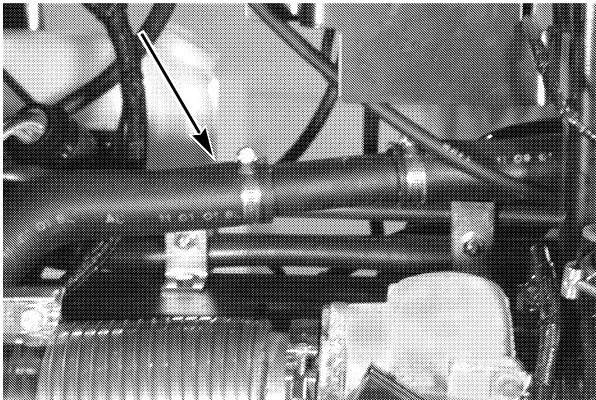
ENGINE REMOVAL

NOTE: Make note of where any wire harness and hose tie straps are removed from during disassembly so they can be properly installed during assembly.

STEP 1

See the Air Conditioning System Service information and evacuate the A/C system. See the Hood, Radiator, Coolers and Condenser information and remove the hood and cooler assembly.

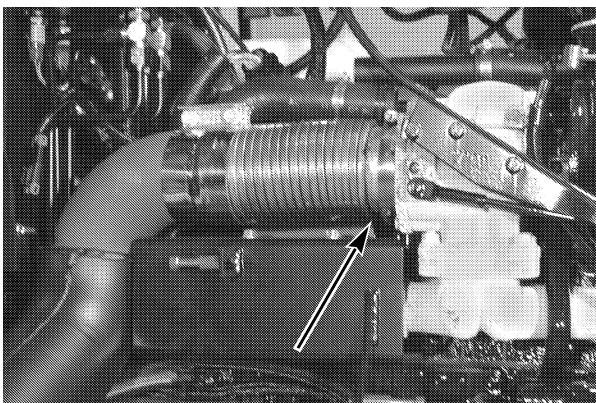
STEP 2



RD02B129

Disconnect the aspirator hose above the valve cover.

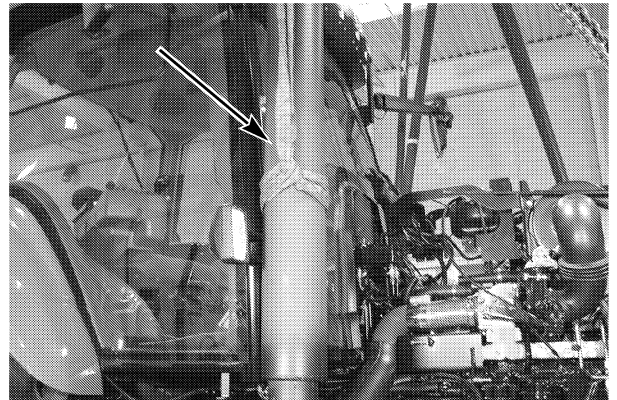
STEP 3



RD02B130

Loosen the clamp on the turbo exhaust outlet flex pipe.

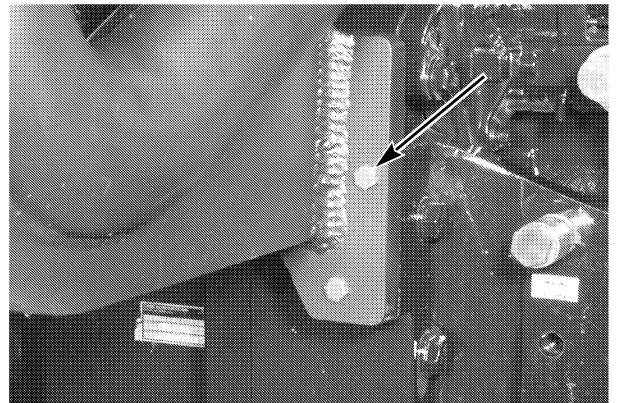
STEP 4



RD02B131

Install an appropriate lifting strap onto the muffer. Put a small amount of tension on the strap,

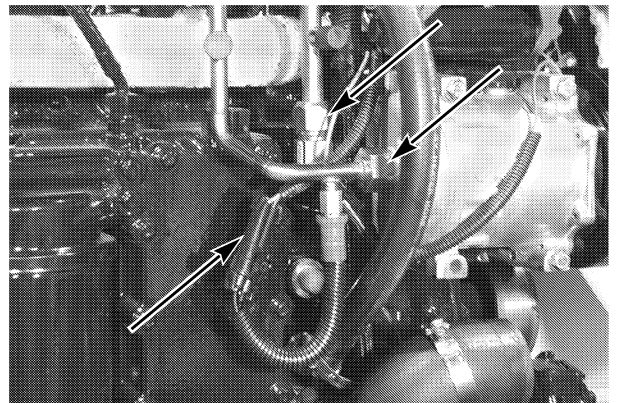
STEP 5



RD02B128

Remove the 3 muffer support elbow mounting bolts. Remove the muffer, elbow and flex pipe assembly.

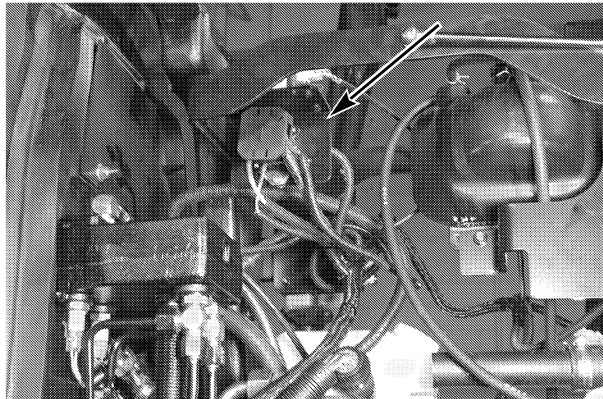
STEP 6



RD02B132

Remove the inlet and outlet tubes from the A/C compressor. Disconnect the high pressure switch connector.

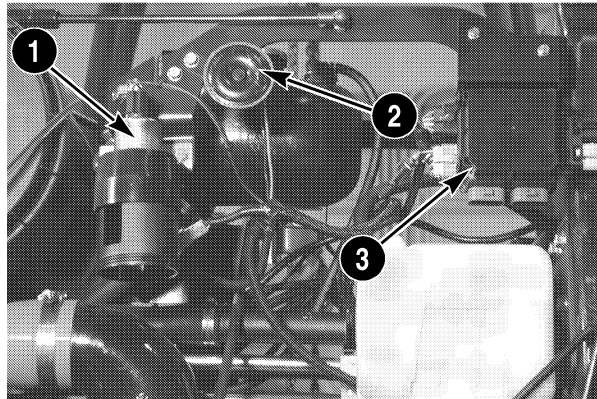
STEP 7



RD02B134

Remove the starter solenoid and data bus terminator bracket assembly from the hood cylinder mounting bracket.

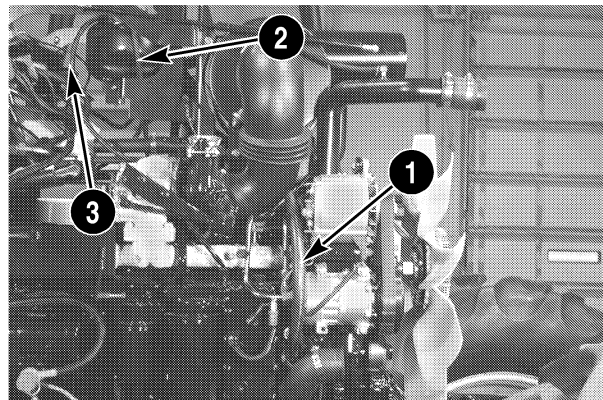
STEP 10



RD02B138

Disconnect the wire harness from the either start (1), horn (2) and fuse box (3).

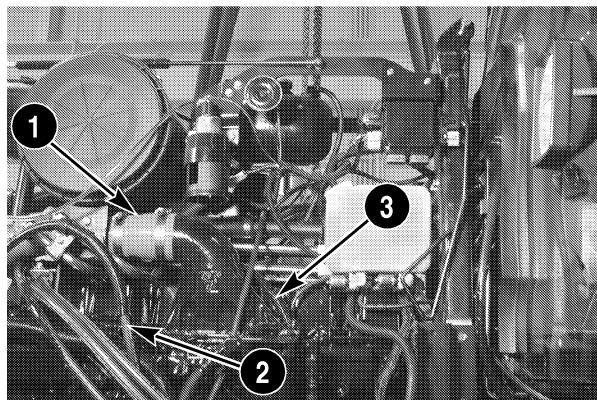
STEP 8



RD02B135

Disconnect the deaeration tank line (1), recovery tank line (2) and the 2 air bleed lines (3).

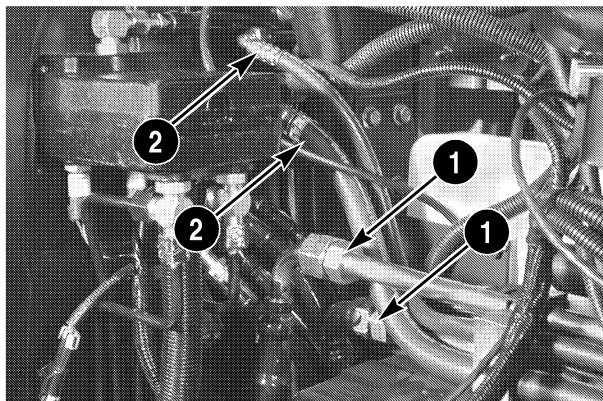
STEP 11



RD02B137

Remove the air to air intake pipe (1) from the intake manifold. Remove the fuel pump return outlet line (2) and from the fuel pump and the fuel cooler return line (3) from the engine.

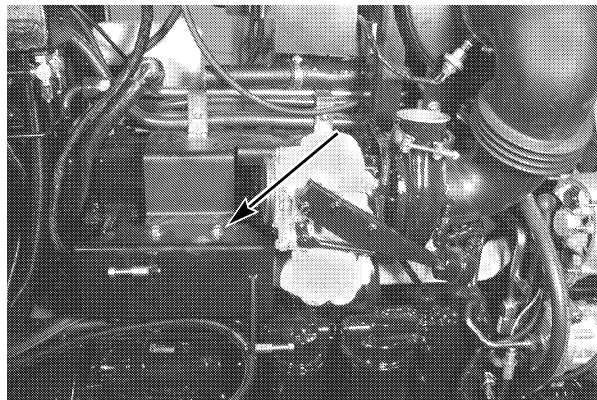
STEP 9



RD02B136

Disconnect the 2 hydraulic oil cooler lines (1) and the 2 A/C lines (2) at the fire wall connectors.

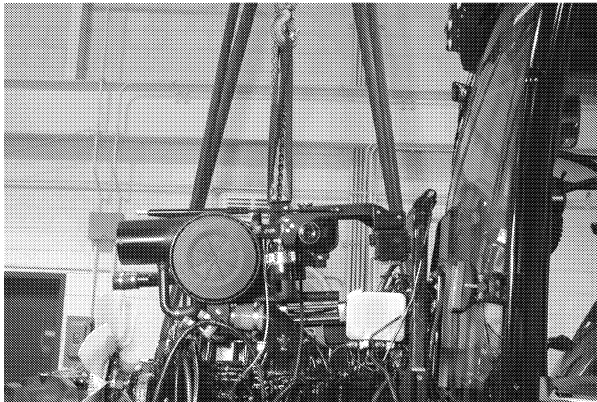
STEP 12



RD02B133

Remove the 7 bolts from the air cleaner mounting plate. Remove the spacer from the left front.

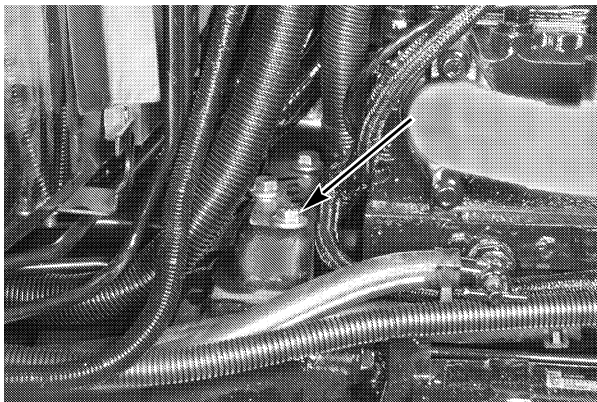
STEP 13



RD02B139

Install appropriate lift straps and chain hoist to the air cleaner assembly. Remove the air cleaner assembly from the top of the engine.

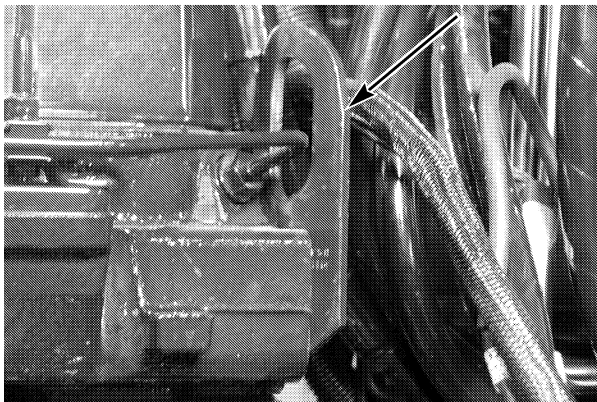
STEP 14



RD02B140

Install an appropriate lift strap to the top of the hood support casting. Remove the 3 retaining bolts and the casting.

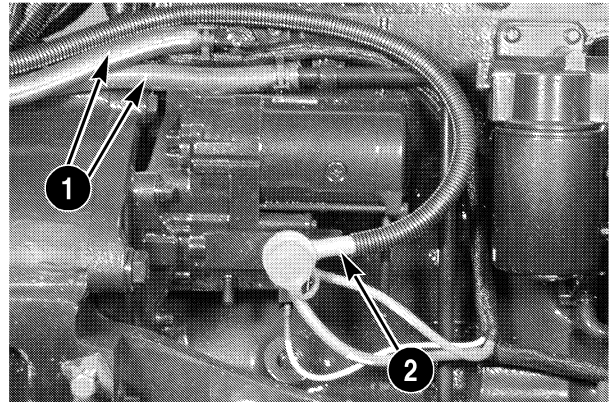
STEP 15



RD02B144

Install an engine rear lift bracket.

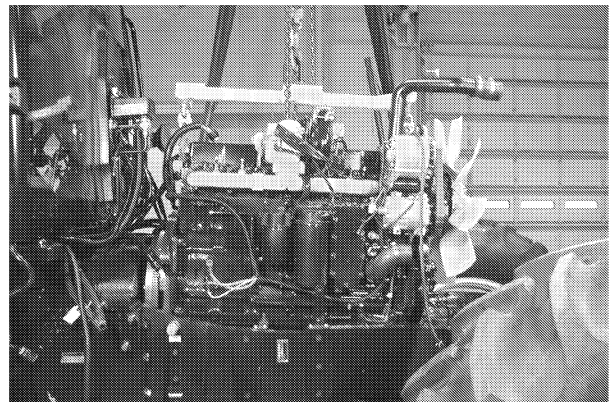
STEP 16



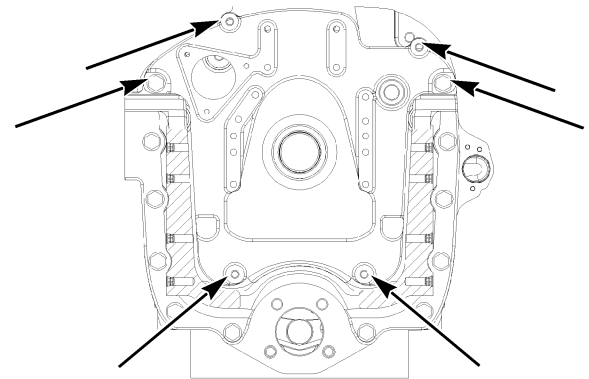
RD02B143

Tag and remove the heater supply and return lines (1). Remove the wire harness (2) from the starter and remove the starter from the engine.

STEP 17



RD02B145

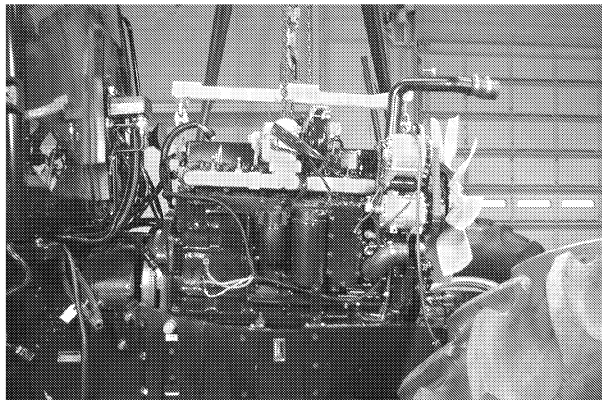


RI02C011

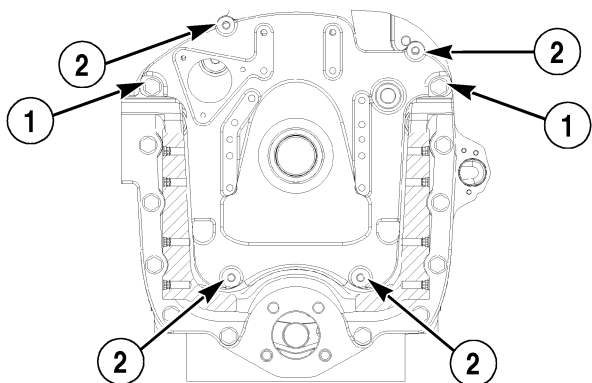
Install appropriate lift equipment on to the engine lift brackets. Put a small amount of tension on the hoist. Loosen and remove the 3 bolts on the left and right hand sides of the engine. Move the engine forward to disengage the transmission input shaft. Move the engine up and out of the tractor.

ENGINE INSTALLATION

STEP 18



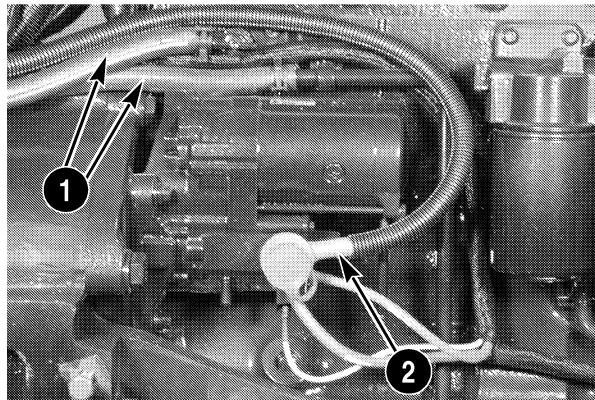
RD02B145



RI02C011

Apply a thin layer of anti seize lubricant to the transmission input splines. Use appropriate lift equipment and lower the engine into the tractor. Align the input shaft with the splines in the torque limiter. Move the engine back until the engine contacts the mounting plate. Install the bolts. Tighten the two M20 bolts (1), to a torque of 430 to 485 Nm (315 to 355 lb ft). Tighten the four M16 bolts (2), to a torque of 221 to 250 Nm (160 to 180 lb ft).

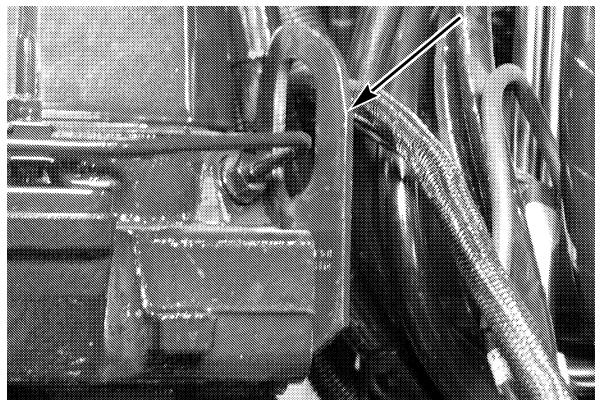
STEP 19



RD02B143

Install the starter on to the engine. Connect the wire harness (2) to the starter. Connect the cab heater supply and return lines (1).

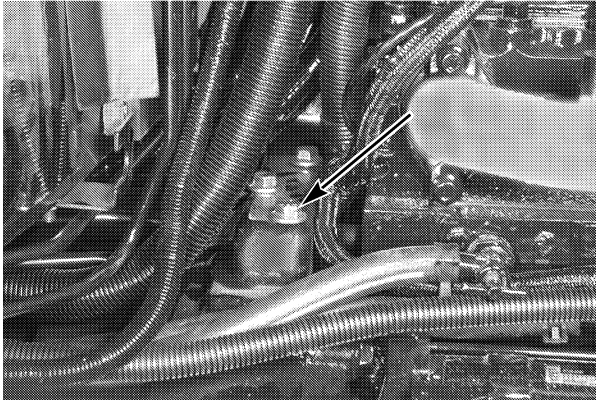
STEP 20



RD02B144

Remove the engine rear lift bracket.

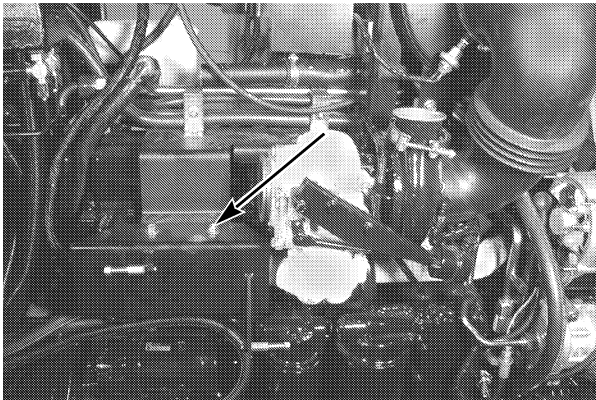
STEP 21



RD02B140

Position the hood support casting at the rear of the engine. Install the three M12 bolts and tighten to a torque of 71 to 80 Nm (52 to 59 lb ft).

STEP 22

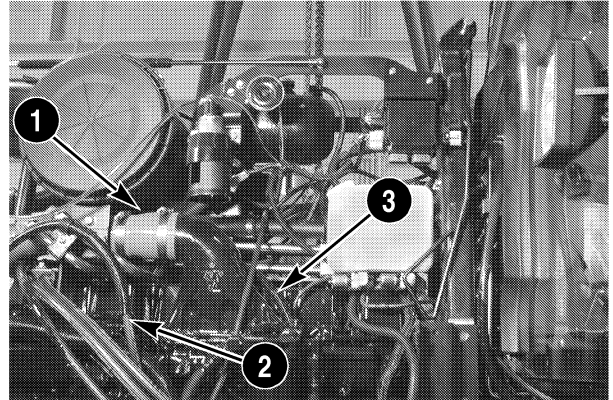


RD02B133

Use a hoist and position the air cleaner mounting plate assembly on top of the engine. Install and tighten the 7 bolts.

NOTE: The spacer must be installed at the left front if equipped.

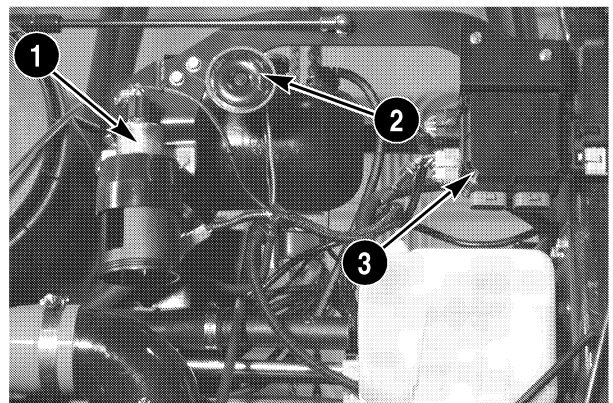
STEP 23



RD02B137

Install the air to air intake pipe (1) on to the intake manifold. Install the fuel pump return outlet line (2) and the fuel pump and the fuel cooler return line (3) on to the engine.

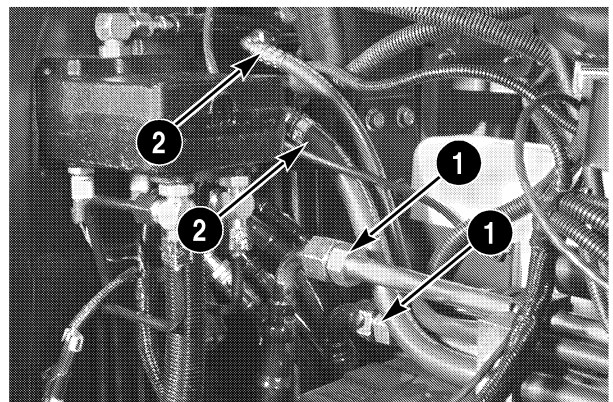
STEP 24



RD02B138

Connect the wire harness to the either start (1), horn (2) and fuse box (3).

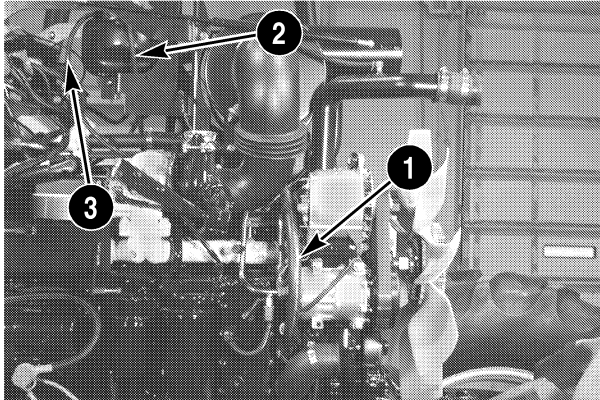
STEP 25



RD02B136

Connect the two hydraulic oil cooler lines (1) and the two A/C lines (2) to the fire wall connectors.

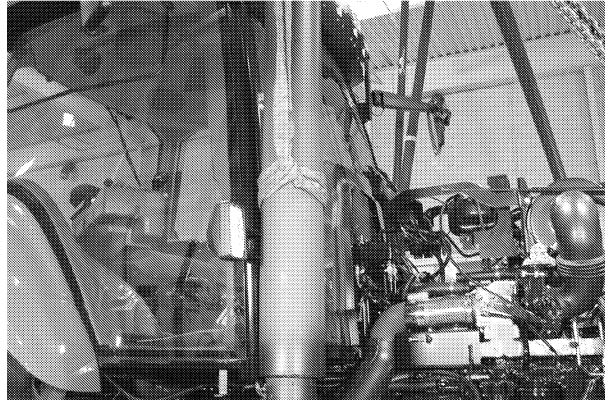
STEP 26



RD02B135

Connect the deaeration tank line (1), recovery tank line (2) and the two air bleed lines (3).

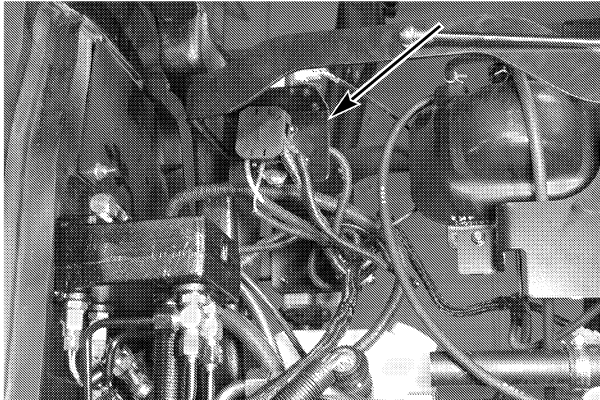
STEP 29



RD02B131

Position the muffler and support elbow assembly and install the flex pipe on to the turbo outlet.

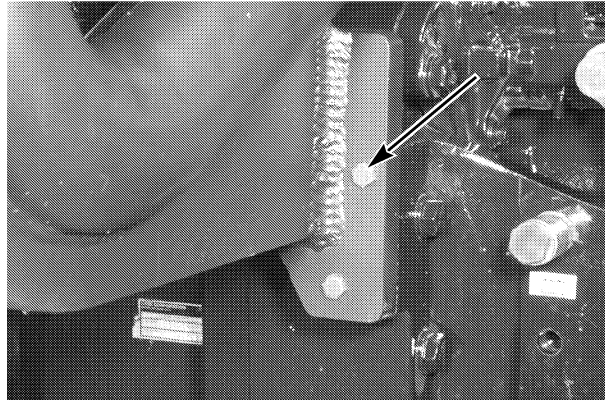
STEP 27



RD02B134

Install the starter solenoid and data bus terminator bracket assembly to the hood cylinder mounting bracket.

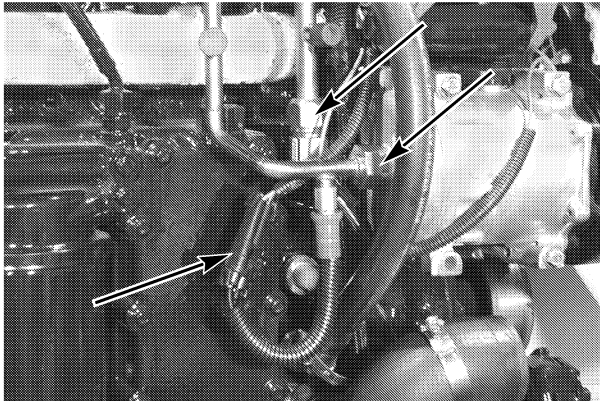
STEP 30



RD02B128

Install and tighten the 3 muffer support elbow mounting bolts.

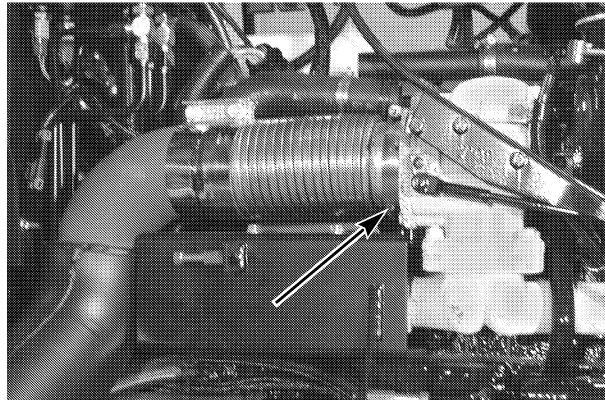
STEP 28



RD02B132

Connect the A/C compressor inlet and outlet tubes. Connect the high pressure switch to the wire harness.

STEP 31



RD02B130

Tighten the flex pipe clamp.

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