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4894 TRACTOR

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Section 1210

GENERAL SPECIFICATIONS

Written In *Clear
And
Simple
English*

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Hello dear friend!

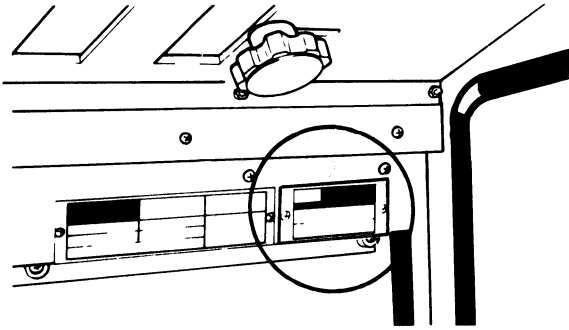
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Enter the link into your browser.

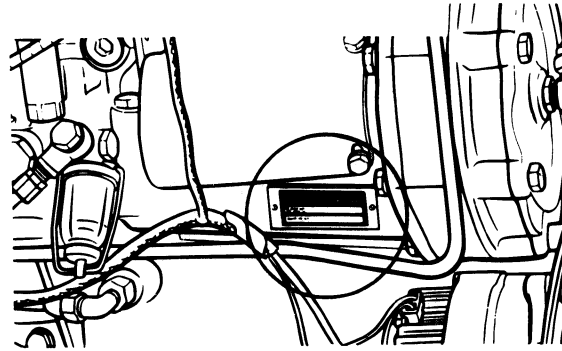
The full manual is available for immediate download.

<https://www.ebooklibonline.com>

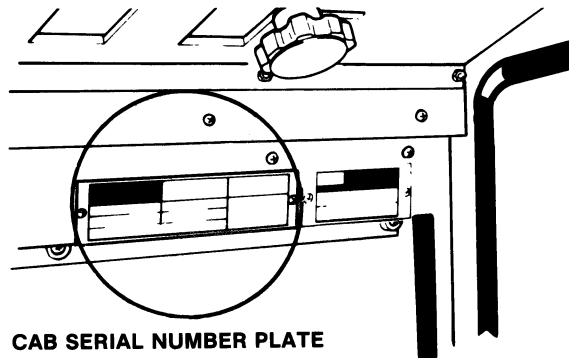
SERIAL NUMBERS



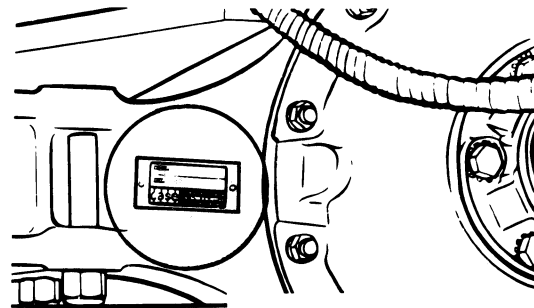
**MODEL AND PRODUCT IDENTIFICATION
NUMBER PLATE**



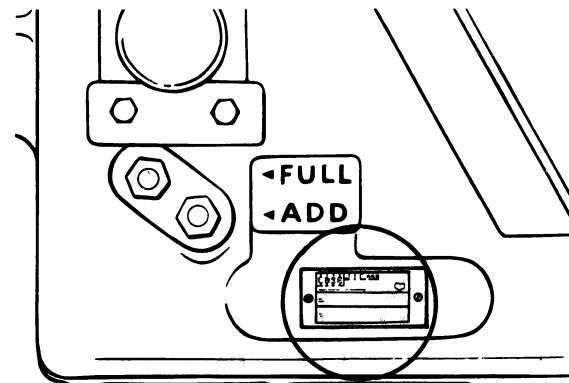
ENGINE SERIAL NUMBER PLATE



CAB SERIAL NUMBER PLATE



**AXLE SERIAL NUMBER
PLATE (Front and Rear)**



TRANSMISSION SERIAL NUMBER PLATE

DIESEL ENGINE SPECIFICATIONS

General

Type	Six Cylinder, Four Stroke Cycle, Turbocharged, Valve in Cylinder Head
Firing Order	1-5-3-6-2-4
Bore	5 Inches (127 mm)
Stroke	5 71 Inches (145 mm)
Piston Displacement	674 Cubic Inches (11 045 cm ³)
Compression Ratio	15 to 1
Cylinder Sleeves	Wet Type, Can be Removed
Governor Engine Speed Without Load	2400 to 2500 RPM
Rated Engine Speed	2200 RPM
Engine Idle Speed	750 RPM
Rocker Arm-to-Valve Clearance (Exhaust)	0 031 Inch (0 80 mm)
(Intake)	0 018 Inch (0 45 mm)

IMPORTANT: *Rocker Arm-to-Valve clearance adjustment must be made when the engine is not running*

Piston and Rod

Rings Per Piston	4
Compression Rings Per Piston	3
Oil Rings Per Piston	1
Type Piston Pin	Full Float
Type Bearings	Replacement Bearings Available, Steel Back with Lead-Bronze Liners

Main Bearings

Number of Bearings	7
Type of Bearings	Replacement Bearings Available, Steel Back With Lead-Bronze Liners

Engine Lubrication System

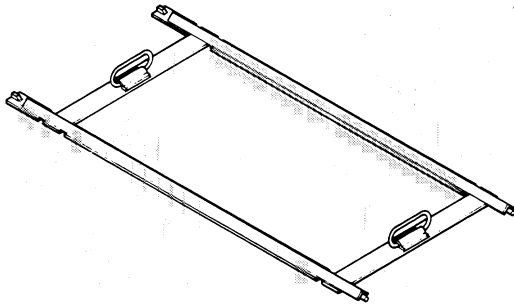
Oil Pressure	65 to 87 PSI (448 to 600 kPa)(4.5 to 6.0 bar) with Engine Warm and Operating at Rated Speed
Type System	Pressure and Spray
Oil Pump	Gear Type
Oil Cleaning	Oil Cleaned all the Time by Separation in Centrifugal Type Oil Cleaner
Oil Capacity	28.4 U.S. Quarts (27 litres)
Oil Cooler	Engine Oil Water Cooling
Turbocharger Oil Filter	Full Flow Turn On Type

Fuel System

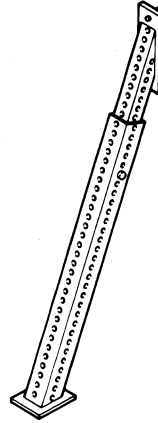
Fuel Injection Pump	Robert Bosch, Multiple Plunger
Pump Timing	20 Degrees (BTC) Before Top Center
Fuel Injectors	Robert Bosch, 21 mm
Fuel Transport Pump	Plunger Type, a Part of the Fuel Injection Pump
Governor	Variable Speed, Parts of the Fuel Injection Pump
Primary Fuel Filter	Full Flow, Turn on Type
Secondary Fuel Filter	Full Flow, Turn on Type
Water Trap and Drain For Fuel Tanks	Location is in Bottom of Each Fuel Tank
Fuel Tank Capacity	75 U.S. Gallons (284 litres) Each Tank, 150 U.S. Gallons (568 Litres) Total
Fuel Level Indicator	LCD Bar Indicator, Location is on Instrument Cluster
Hand Primer Pump	Location is on Top of Fuel Transport Pump
Fuel Strainer	Location is at Bottom of Fuel Transport Pump

SPECIAL TOOLS

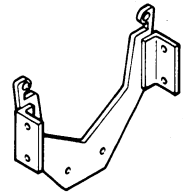
CAS-10500 FOUR WHEEL DRIVE SPLITTING SET COMPLETE



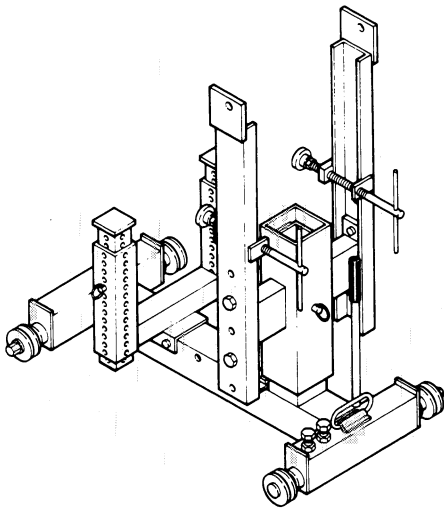
CAS-10500-6 TRACK ASSEMBLY 2 ENDS 3 CENTER
CAS-10501 ONE SECTION OF CENTER TRACK



ENGINE SAFETY STANDS
(PART OF COMPLETE SET)



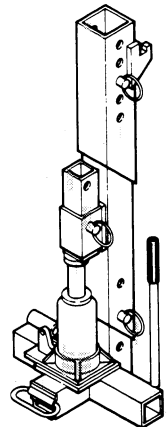
2470 AND 2670 ENGINE YOKE
(PART OF COMPLETE SET)



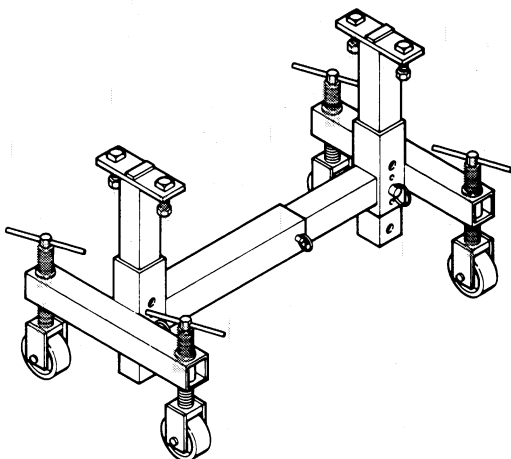
CAS-10500-3 TRANSMISSION CART



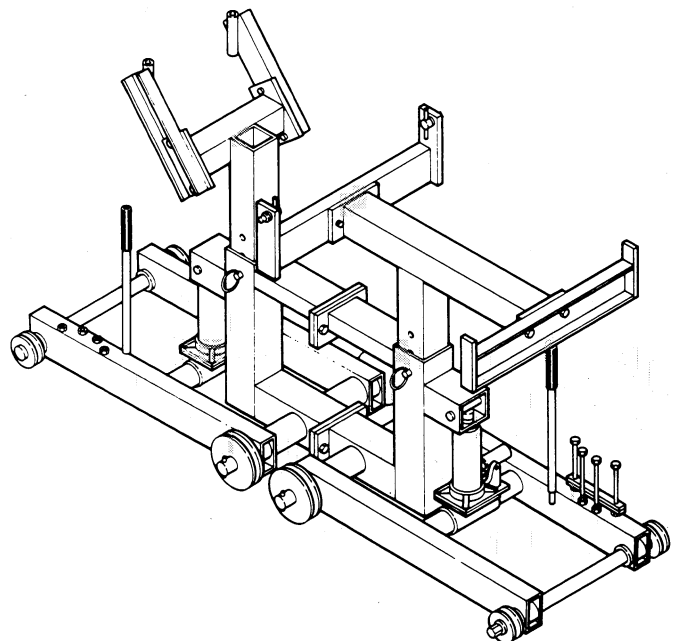
CAS-10500-5 FRAME LOCKS (2)



CAS-10500-1 SIDE FRAME JACKS (2)



CAS-10500-4 AXLE CART



CAS-10500-2 ENGINE CART

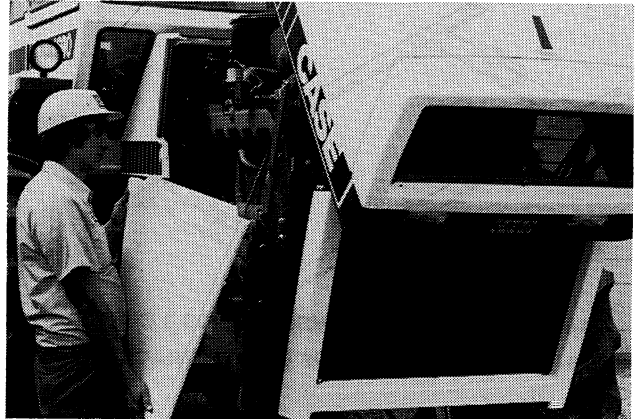
Disconnects For Engine, Front Axle And Transmission Removal

STEP 1



Pull the latch on each side of the tractor to release the hood.

STEP 4



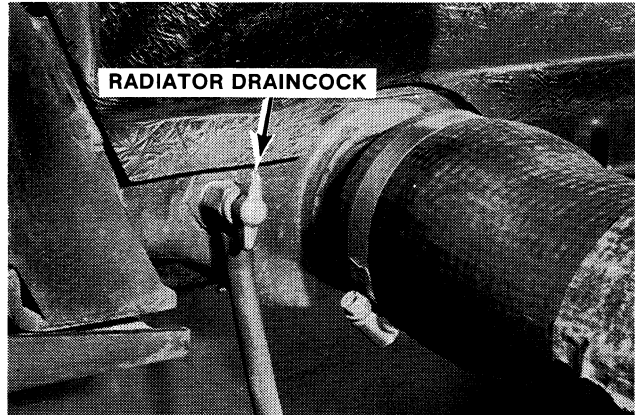
Remove the two side panels. To remove the sheet metal and radiator on the 2470 and 2670, see Section 2032 in your Case Service Manual.

STEP 2



Lift the hood until the front hinge is in the lock position.

STEP 5



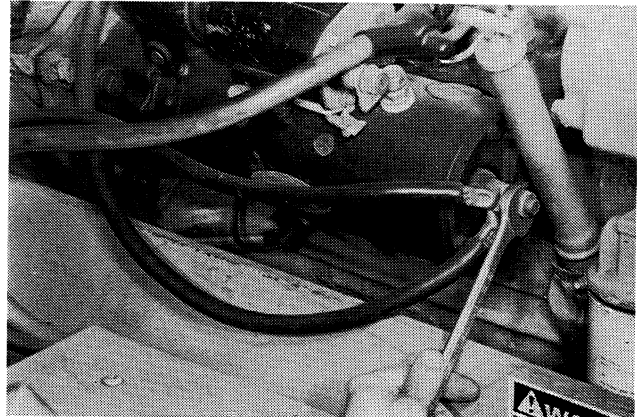
Drain the coolant from the radiator.

STEP 3



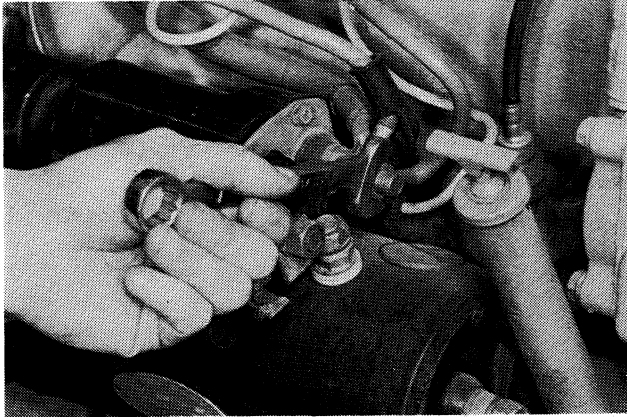
Make sure the hood is completely held in the up position by the hinge lock.

STEP 6



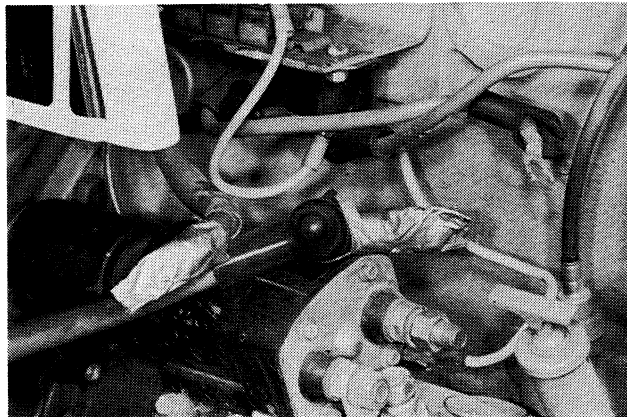
Remove the battery ground cables (negative black) from the starting motor.

STEP 7



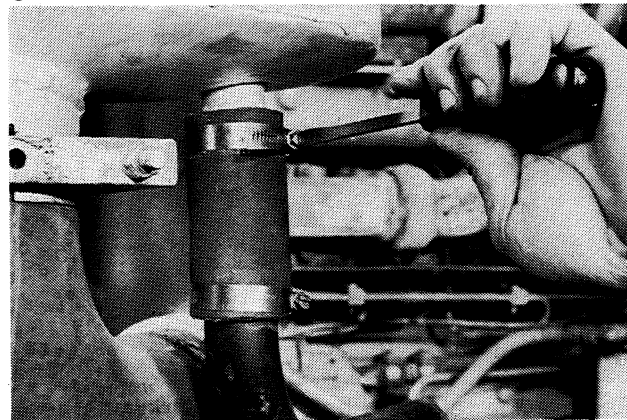
Remove the battery positive (red) cables from the solenoid on the starting motor.

STEP 8



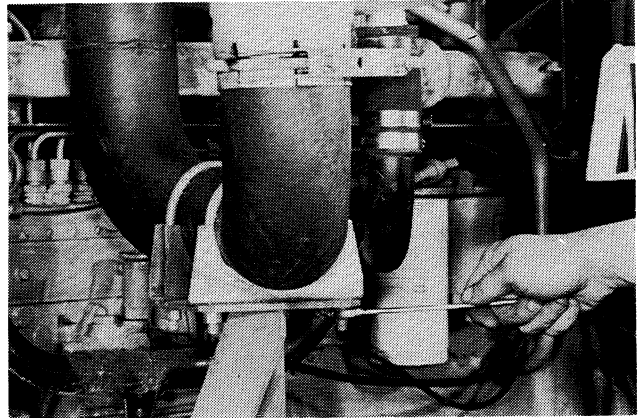
Put tape on the end of the positive (red) battery cables to prevent spark caused by an accident.

STEP 9



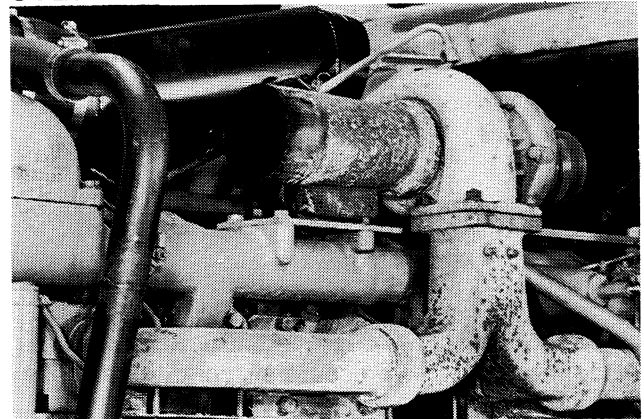
Remove the upper clamp that holds the aspirator hose to the muffler.

STEP 10



Remove the two clamps that hold the muffler tube to the support bracket. Remove the muffler and tube from the tractor.

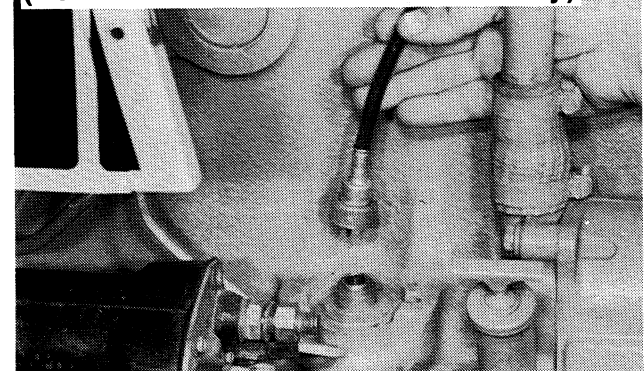
STEP 11



Muffler removed from the tractor.

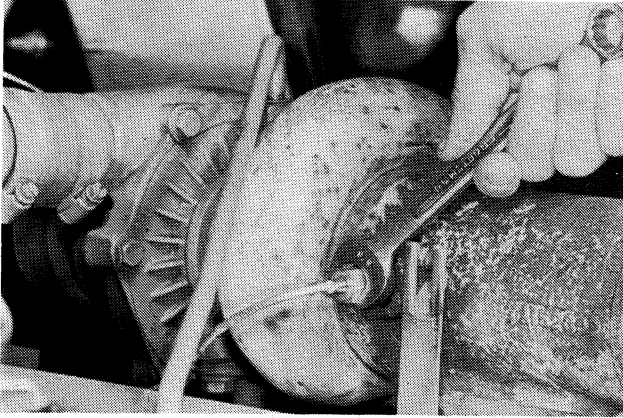
STEP 12

(For 70 and 90 Series Tractors Only)



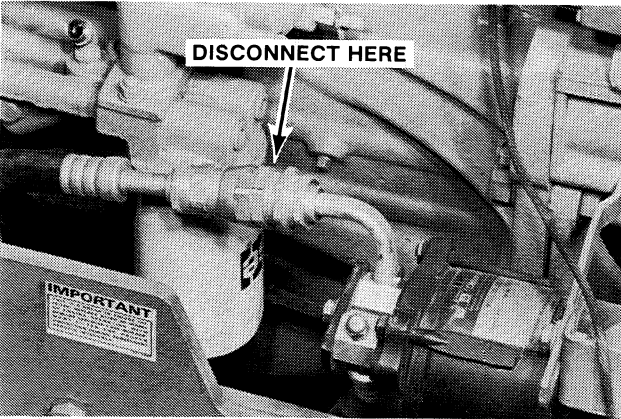
Disconnect the tachometer drive cable from the engine.

STEP 13



Remove the pyrometer sensing unit.

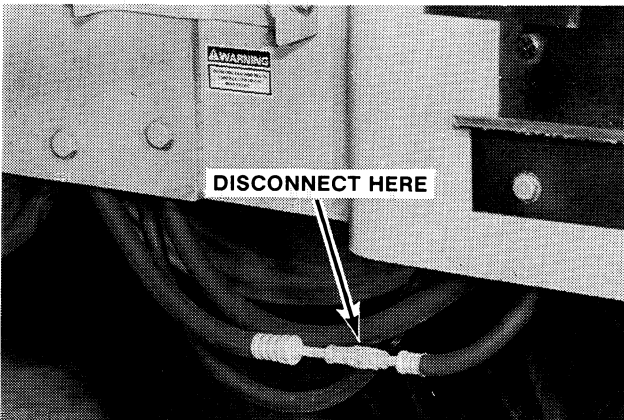
STEP 14



Disconnect the low pressure air conditioner hose at the coupler.

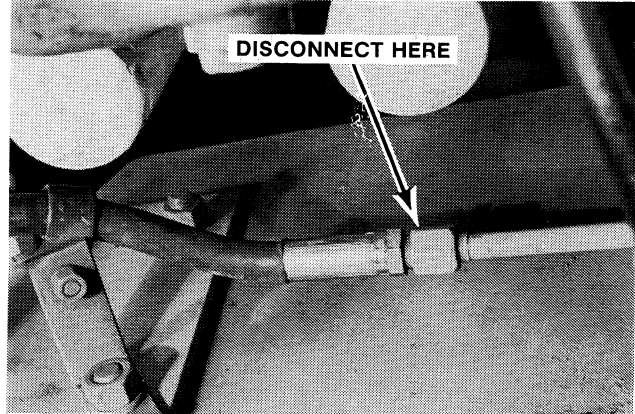
NOTE: *Disconnecting the air conditioner hoses at the coupler will prevent the loss of refrigerant.*

STEP 15



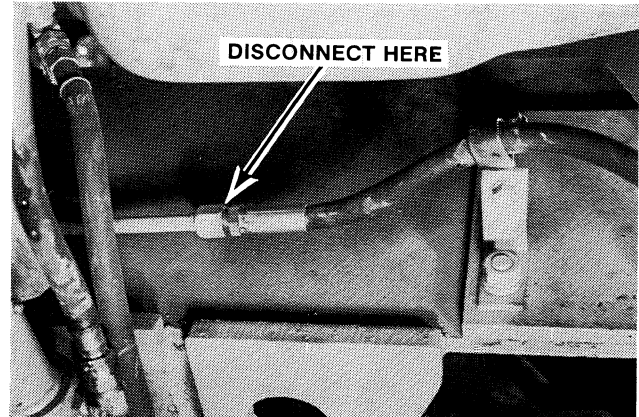
Disconnect the air conditioner hose from the cab to the receiver-drier.

STEP 16



Disconnect the RH oil cooler hose at the inside of the RH side rail.

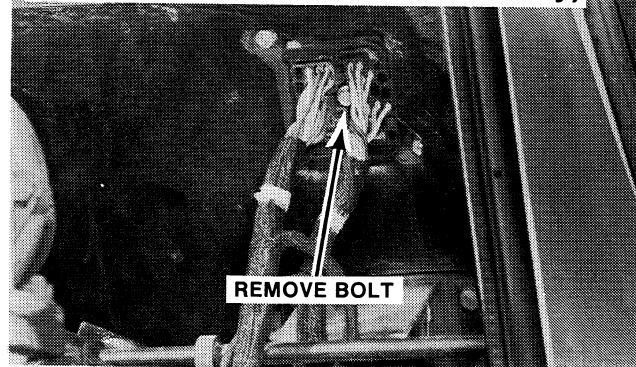
STEP 17



Disconnect the LH oil cooler hose at the inside of the LH side rail.

STEP 18

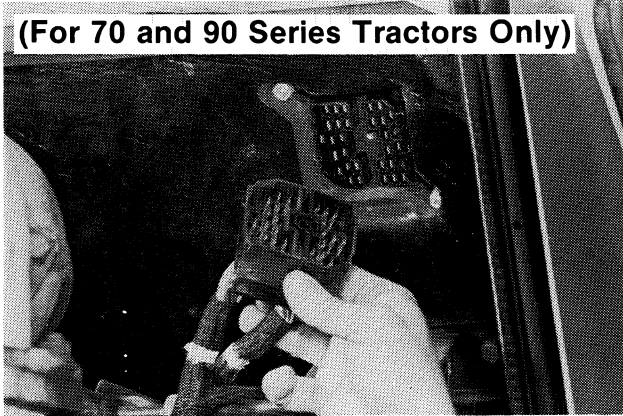
(For 70 and 90 Series Tractors Only)



Remove the retaining bolt for the wiring harness connector.

STEP 19

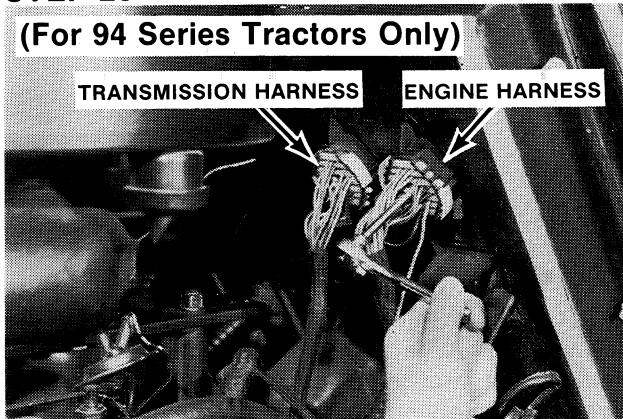
(For 70 and 90 Series Tractors Only)



Pull the wiring harness connector from the firewall connector. Disconnect small connectors from the cab harness as needed.

STEP 20

(For 94 Series Tractors Only)



Loosen the bolt that retains the engine harness connector to the firewall connector.

STEP 21

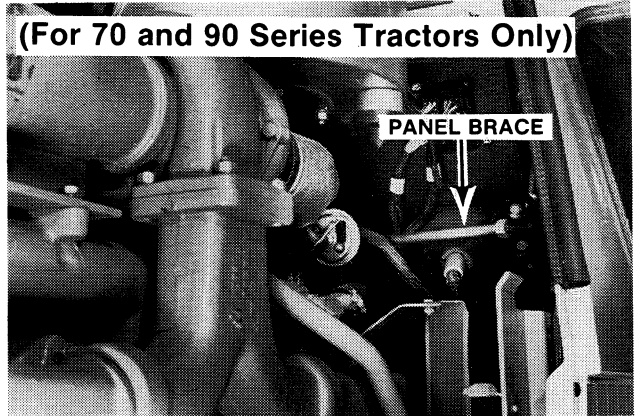
(For 94 Series Tractors Only)



Disconnect the engine harness connector from the firewall connector.

STEP 22

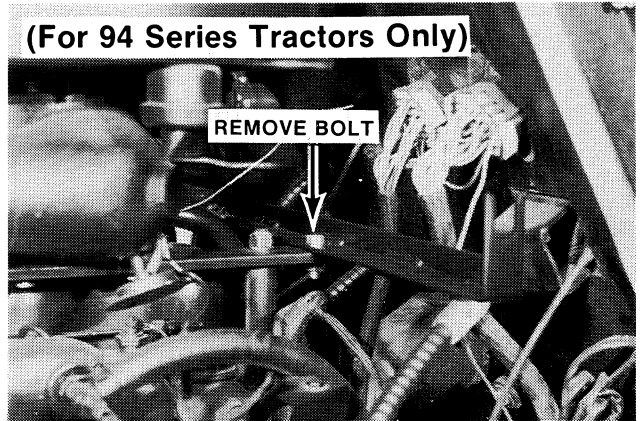
(For 70 and 90 Series Tractors Only)



Remove the panel brace from the panels.

STEP 23

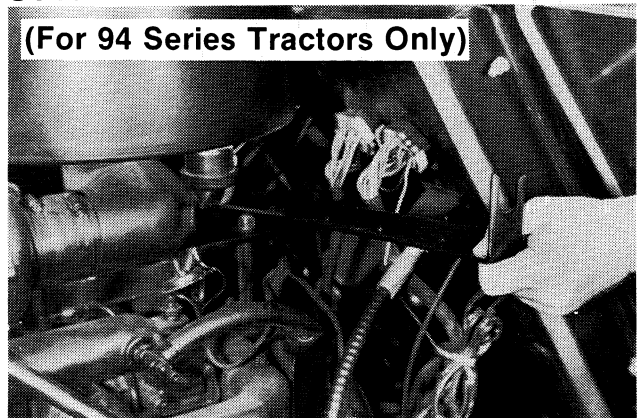
(For 94 Series Tractors Only)



Remove the retaining bolt from the adjustment bar for the hood rear side panels.

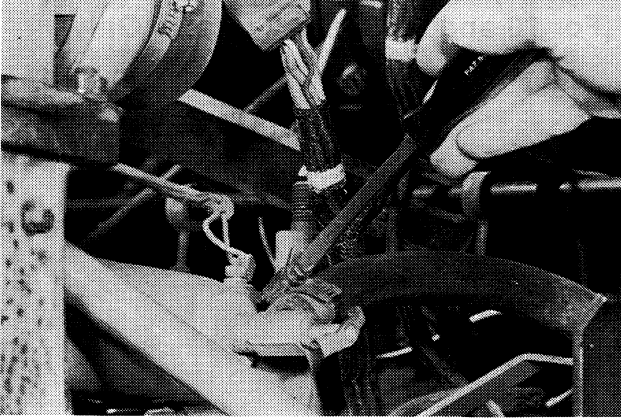
STEP 24

(For 94 Series Tractors Only)



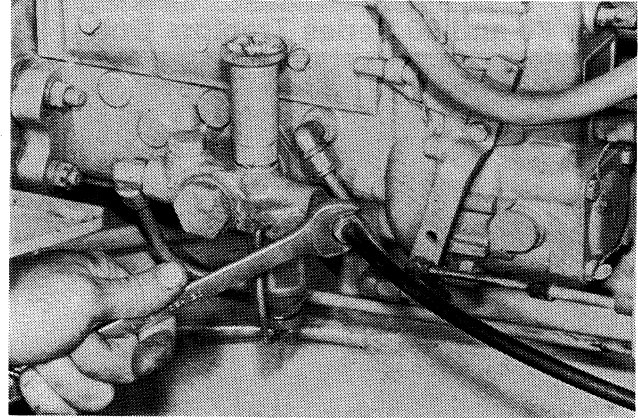
Remove the adjustment bar.

STEP 25



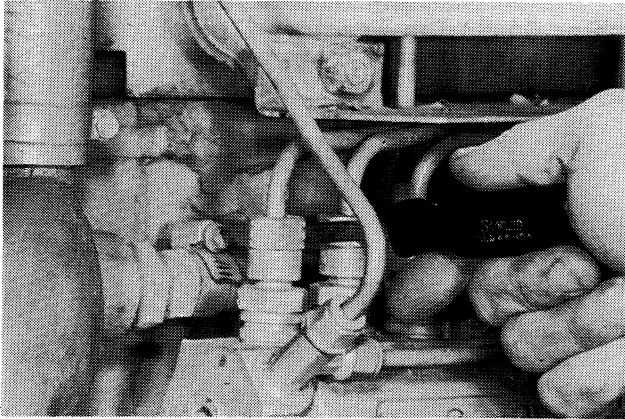
Remove the heater hose from the shutoff valve.

STEP 28



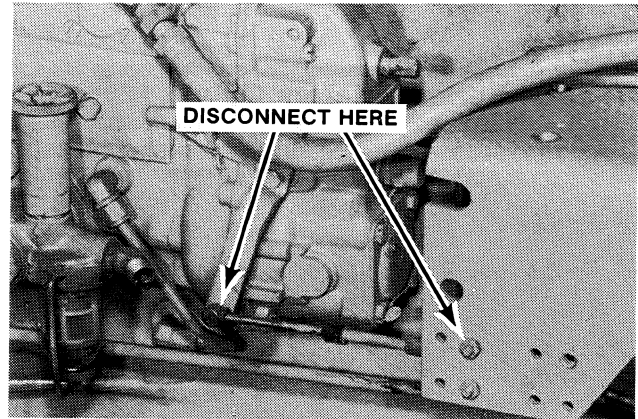
Disconnect the fuel supply line from the fuel pump.

STEP 26



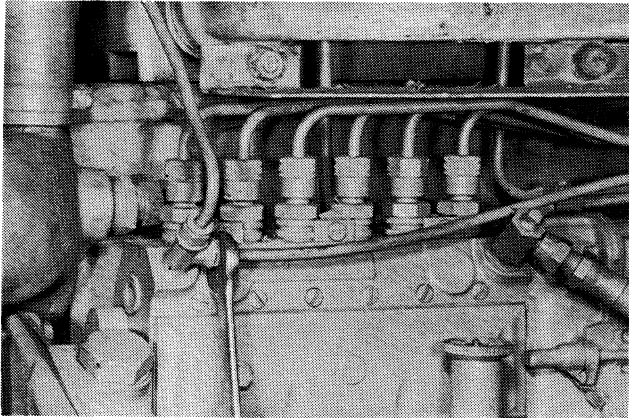
Remove the heater return hose from the water pump housing.

STEP 29



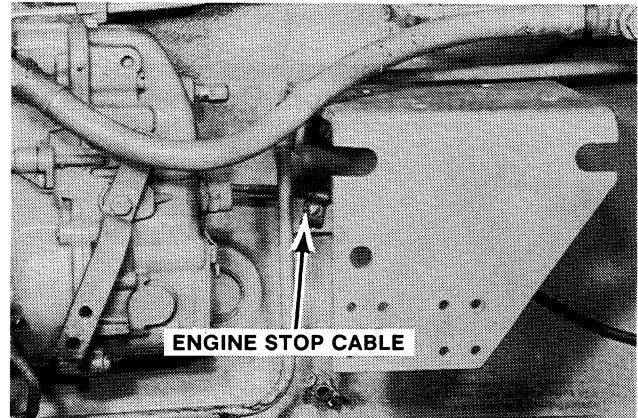
Remove the throttle cable from the fuel pump and throttle bracket.

STEP 27



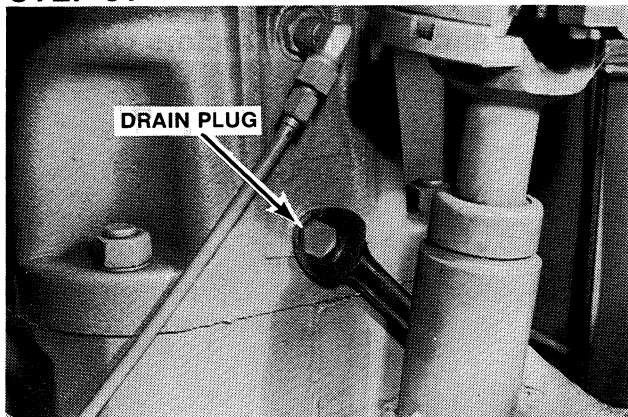
Disconnect the fuel return line from the fuel pump.

STEP 30



Remove the engine stop cable from the fuel pump and throttle bracket.

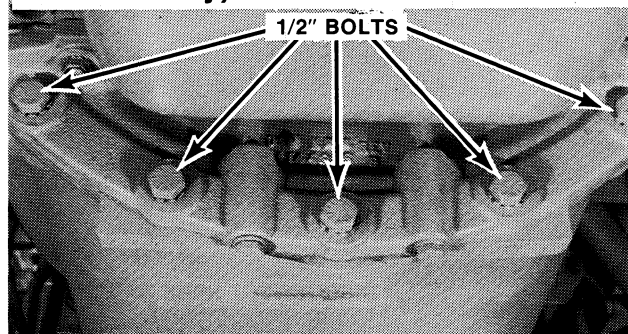
STEP 31



Remove the drain plug from the torque tube and drain the torque tube oil.

STEP 32

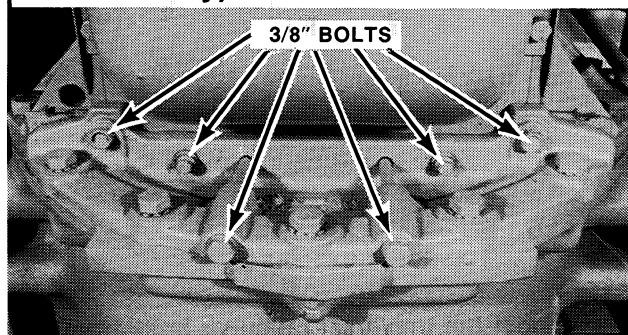
(2470, 2670, 4490, 4690, 4494 and 4694 Tractors Only)



Remove the 1/2" bolts and washers from the torque tube seal plate.

STEP 33

(2470, 2670, 4490, 4690, 4494 and 4694 Tractors Only)

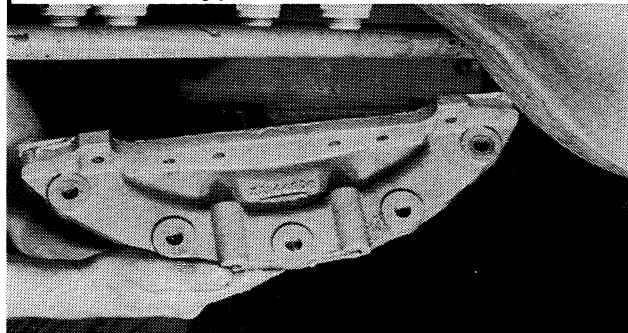


Remove the 3/8" bolts and washers from the torque tube seal plate.

NOTE: A 3/8 inch-12 point universal socket is needed to remove the four center retaining bolts.

STEP 34

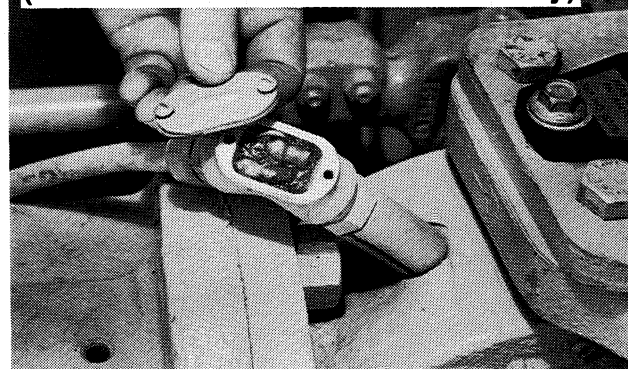
(2470, 2670, 4490, 4690, 4494 and 4694 Tractors Only)



Remove the seal plate.

STEP 35

(For 90 and 94 Series Tractors Only)



Remove the cover and gasket from the wiring junction box on the front axle.

STEP 36

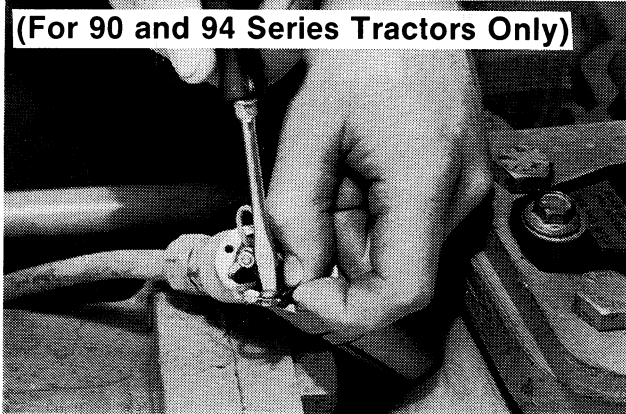
(For 90 and 94 Series Tractors Only)



Use a small knife to cut the insulation tubes from each of the three wires.

STEP 37

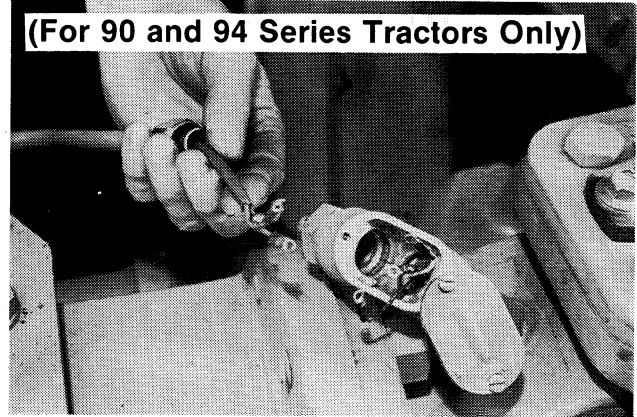
(For 90 and 94 Series Tractors Only)



Disconnect the three sets of wires by removing the small screws and nuts.

STEP 40

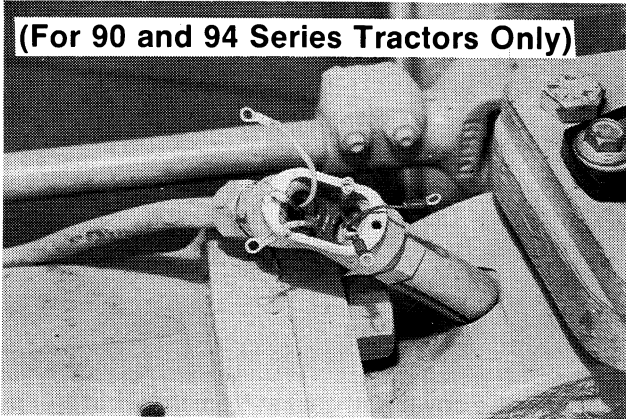
(For 90 and 94 Series Tractors Only)



Electrical tube and sensor wires removed from the junction box.

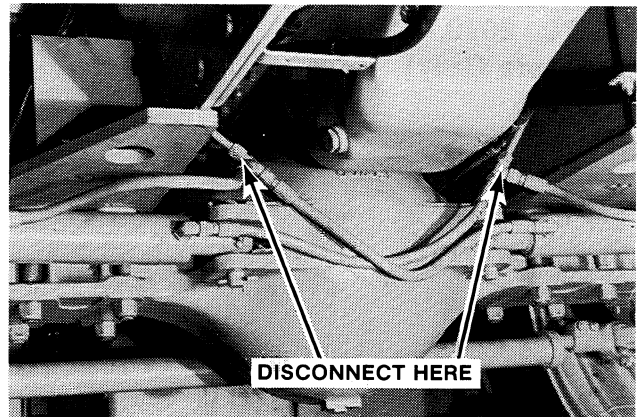
STEP 38

(For 90 and 94 Series Tractors Only)



Sensor wires disconnected.

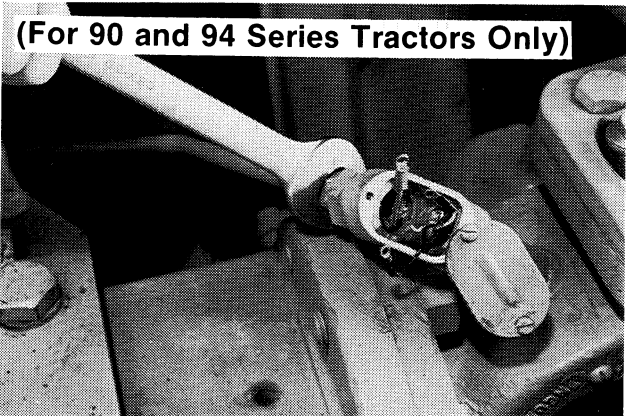
STEP 41



Disconnect the front axle steering lines.

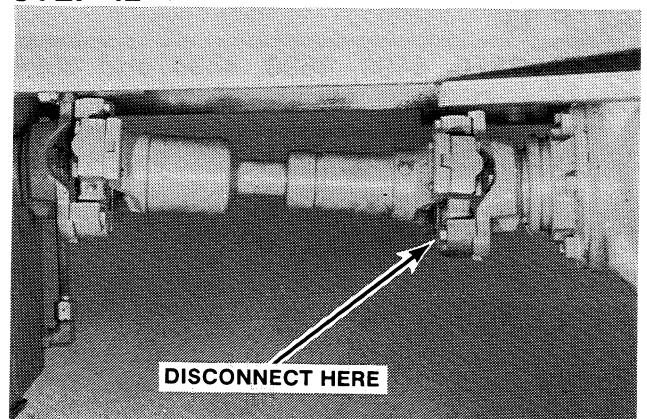
STEP 39

(For 90 and 94 Series Tractors Only)



Disconnect the electrical tube.

STEP 42



Disconnect the universal retaining bolts from the input yoke on the front axle.



Suggest:

If the above button click is invalid.

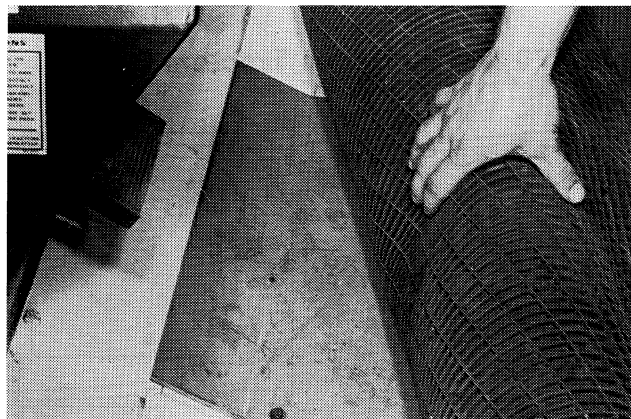
Please download this document

first, and then click the above link

to download the complete manual.

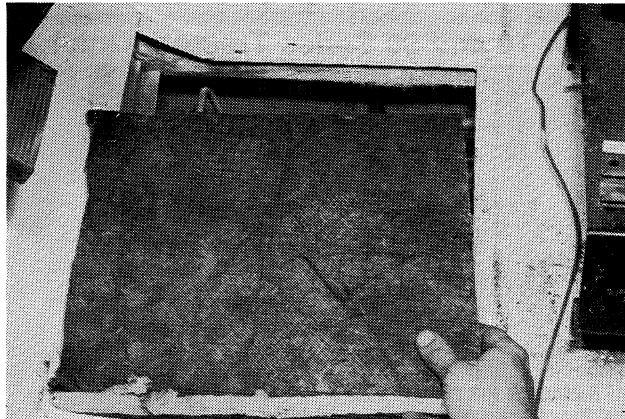
Thank you so much for reading

STEP 43



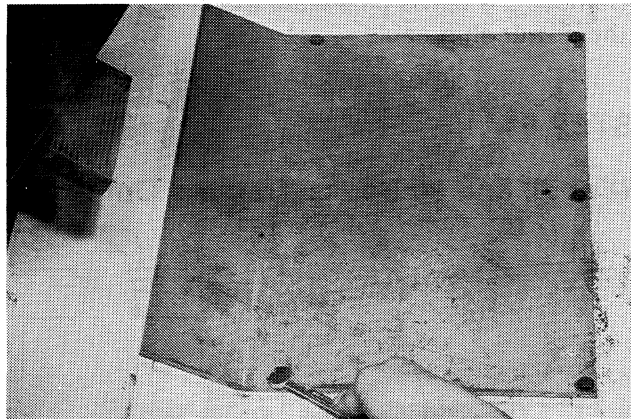
Remove the floor mat.

STEP 46



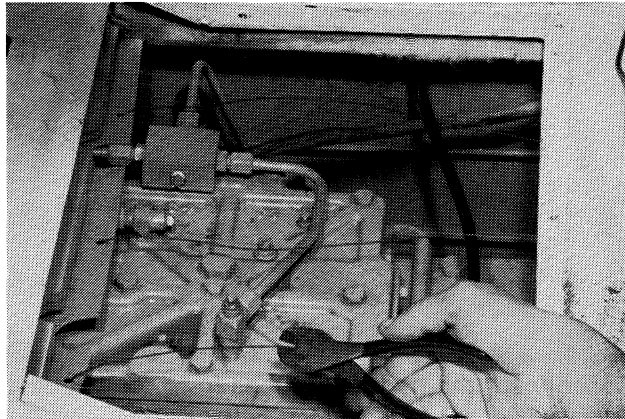
Remove the insulation.

STEP 44



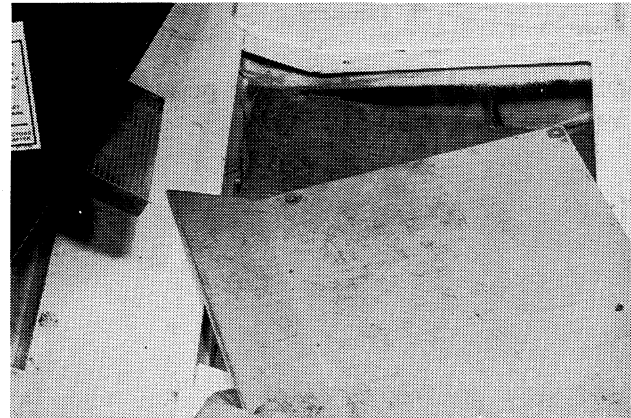
Remove the bolts from the access door in the cab floor.

STEP 47



Remove the wires that hold the insulation.

STEP 45



Remove the access door.

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Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

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