

Product: EXCAVATOR

Model: 320C EXCAVATOR EGL

Configuration: 320C S Hydraulic Excavator EGL00001-UP (MACHINE) POWERED BY 3066 Engine

Disassembly and Assembly 320C Excavator Machine Systems

Media Number -REN3826-16

Publication Date -01/11/2014

Date Updated -30/03/2016

i01774876

Evaporator Coil - Install

SMCS - 7343-012

Installation Procedure

Note: For installation of the expansion valve, refer to Disassembly and Assembly, "Expansion Valve - Remove and Install".

Note: Check the O-ring seals, the gaskets, and the seals for wear or for damage. Replace the components, if necessary.

Installation Procedure of the Temperature Sensor for the Evaporator Coil

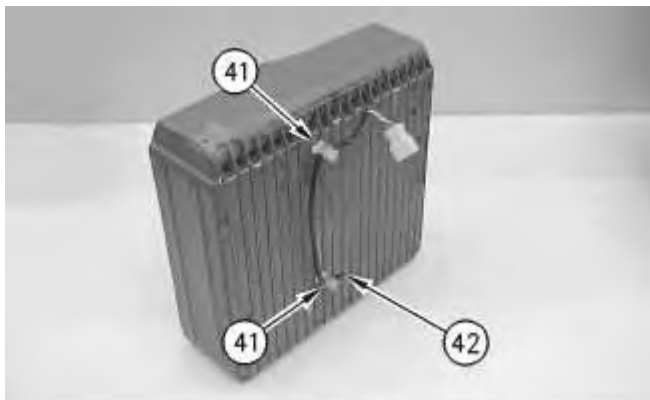


Illustration 1

g00910403

1. Install temperature sensor (42) in the clips.
2. Carefully install clips (41) in the evaporator coil.

Installation Procedure of the Evaporator Coil



Illustration 2

g00698116

1. Install insulation (40) on the evaporator coil.



Illustration 3

g00698112

2. Install evaporator coil (39) in the case assembly.



Illustration 4

g00698110

Note: Make sure that the air dampers are properly installed in the case assembly.

3. Install case assembly (38).
-

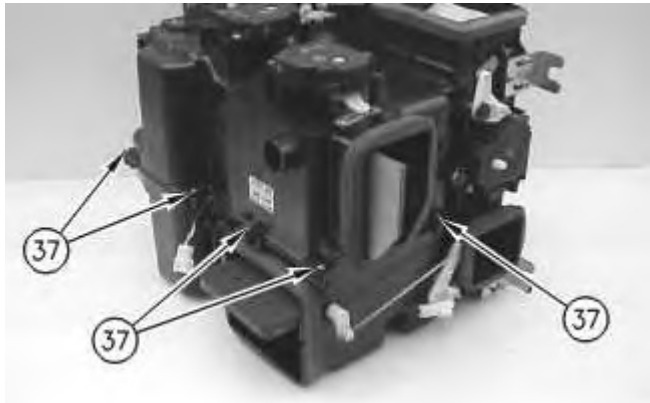


Illustration 5

g00698562

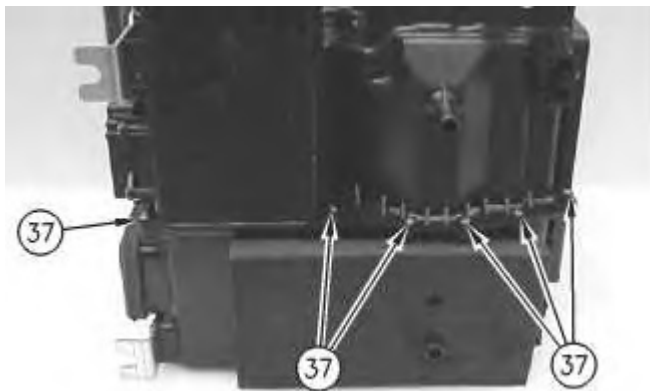


Illustration 6

g00698099

4. Install screws (37) in the case assembly.

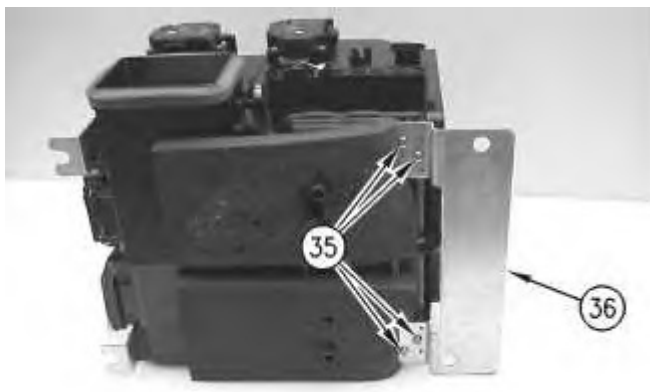


Illustration 7

g00698091

5. Position mounting bracket (36) on the case assembly. Install screws (35).

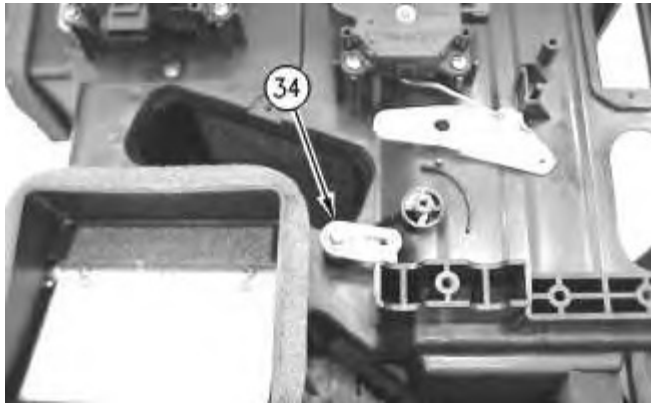


Illustration 8

g00698084

6. Install retainer (34) on the air damper.

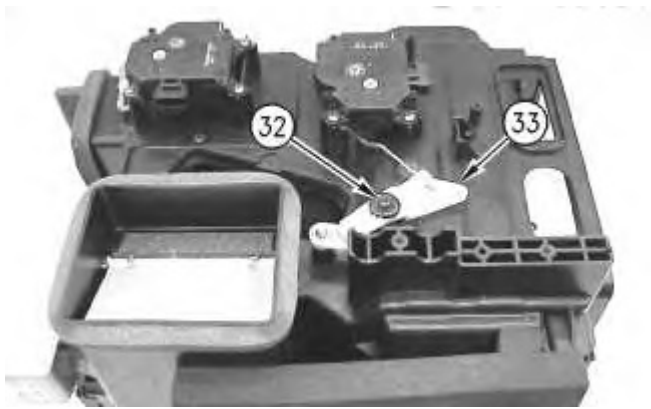


Illustration 9

g00698076

7. Connect linkage (33). Install screw (32).



Illustration 10

g00698555

8. Install O-ring seal (31) on the tube assembly.

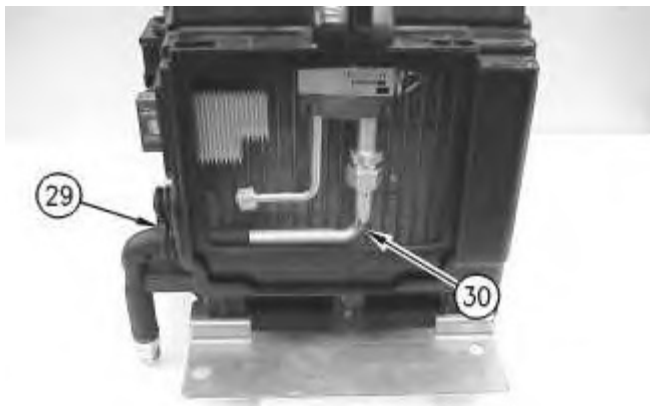


Illustration 11

g00698025

9. Install tube assembly (30) in grommet (29). Connect tube assembly (30).

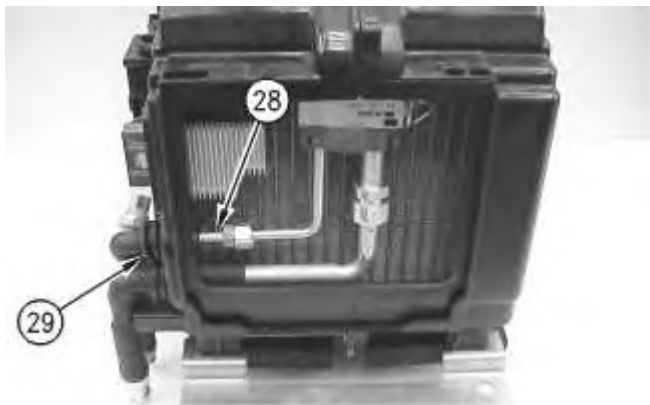


Illustration 12

g00698016

10. Install tube assembly (28) in grommet (29). Connect tube assembly (28).

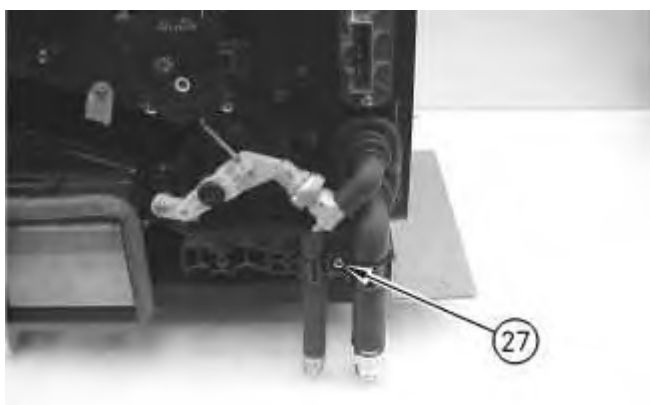


Illustration 13

g00698018

11. Install the clip and screw (27) on the tube assembly.

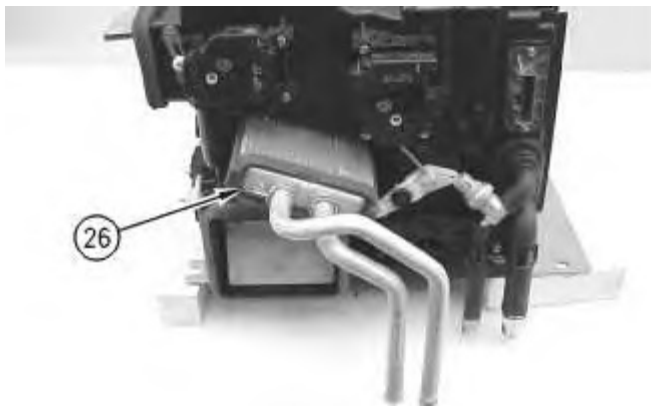


Illustration 14

g00698010

12. Install heater core (26).

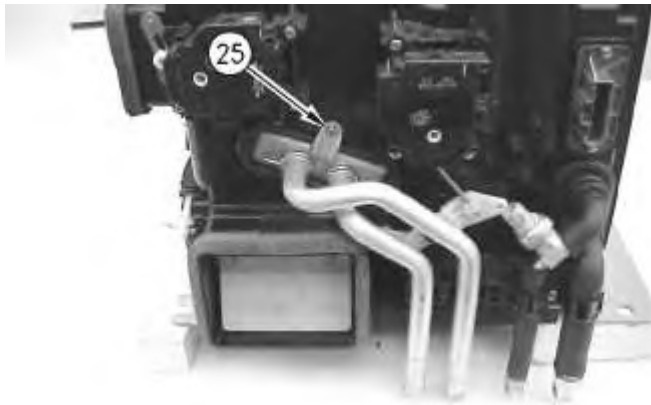


Illustration 15

g00698002

13. Install the clip and screw (25).

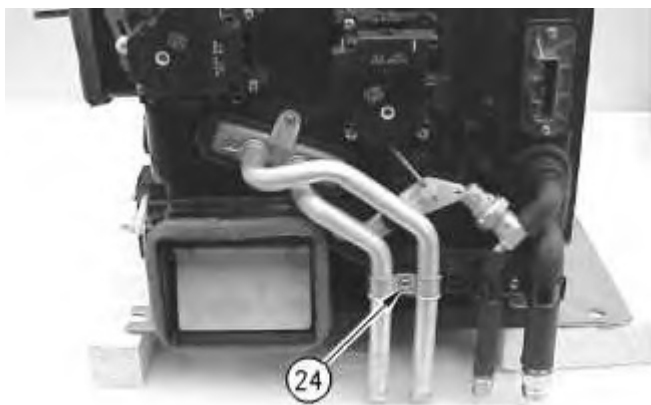


Illustration 16

g00698007

14. Install screw (24) in order to Install the clip on the tube assemblies.
-



Illustration 17

g00698546

15. Install insulation (23) on the tube assemblies.



Illustration 18

g00697999

16. Connect linkage (21). Install screw (22).



Illustration 19

g00697996

17. Install cam (20) on the damper motor.

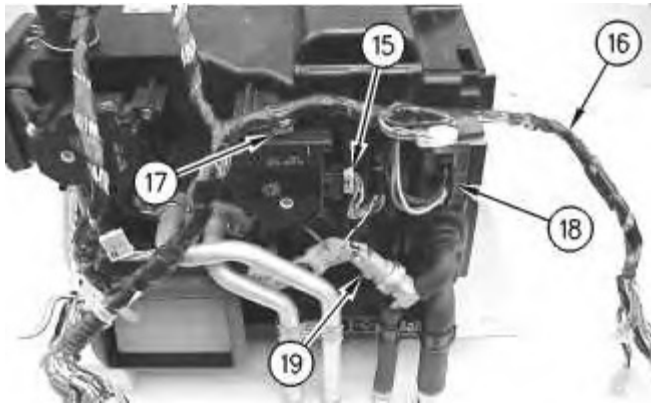


Illustration 20

g00697731

18. Position harness assembly (16) on the heating and air conditioning unit.
19. Connect cable strap (17).
20. Connect harness assembly (19) to the pressure switch.
21. Connect harness assembly (18) to the speed control.
22. Connect harness assembly (15) to the damper motor.



Illustration 21

g00697723

23. Install screw (13) in order to connect the strap for the harness assembly.
24. Connect harness assembly (14) to the damper motor.

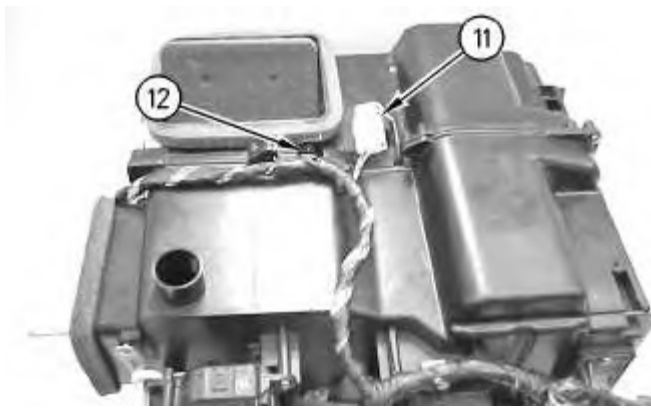


Illustration 22

g00697821

25. Connect cable strap (12).
26. Connect harness assembly (11).

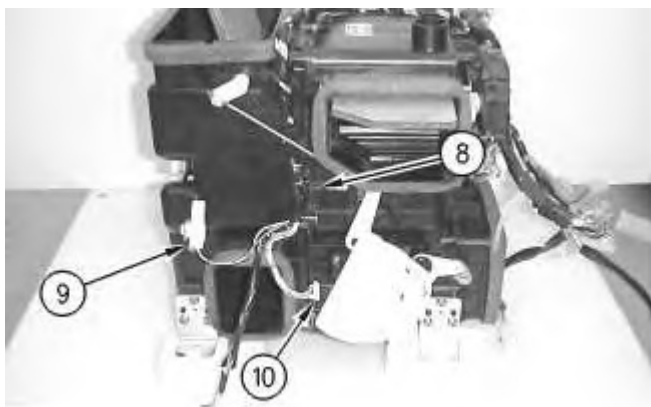


Illustration 23

g00697696

27. Connect cable strap (8).
28. Connect harness assembly (10) to the damper motor.
29. Connect harness assembly (9) to the water temperature sensor.

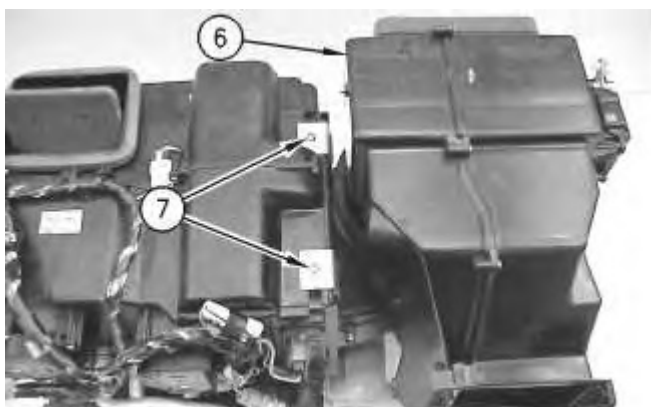


Illustration 24

g00697687

Note: Make sure that the outlet of the housing is correctly installed in the heating and air conditioning unit.

30. Carefully position blower motor housing (6) on the heating and air conditioning unit.
31. Install the brackets and screws (7).



Illustration 25

g00697675

32. Connect clip (5) to the blower motor.

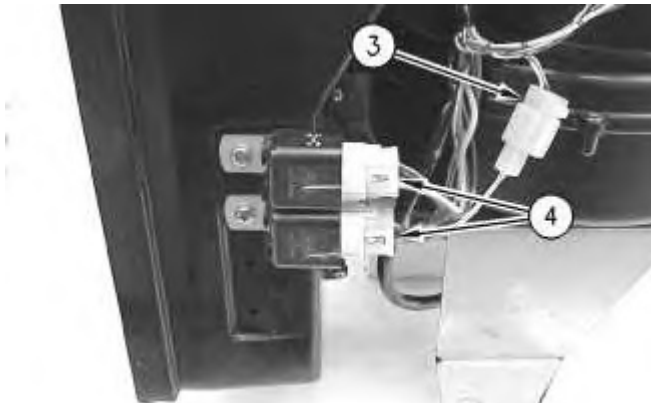


Illustration 26

g00697661

33. Connect harness assembly (3) to the cab air temperature sensor.
 34. Connect harness assemblies (4) to the relays.
-



Illustration 27

g00697651

35. Connect harness assembly (2) to the blower motor.

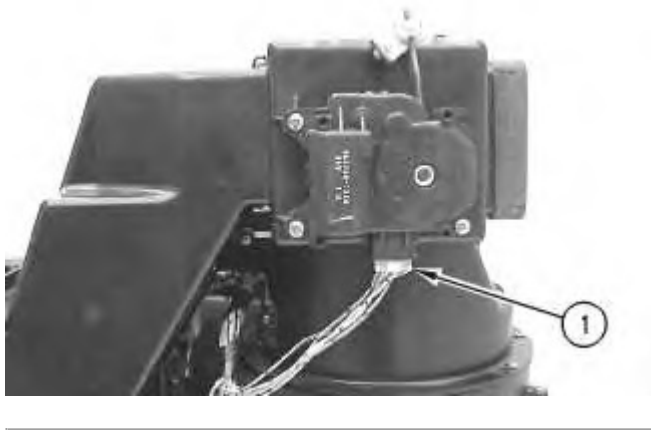


Illustration 28

g00697612

36. Connect harness assembly (1) to the actuator motor.

End By:

- a. Install the heating and air conditioning unit. Refer to Disassembly and Assembly, "Heating and Air Conditioning Unit - Install".
-

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i02809821

Pressure Switch (Refrigerant Pressure Cutoff) - Remove

SMCS - 7309-011-QW; 7320-011-QW

Removal Procedure

Start By:

- A. Remove the storage box from the cab. Refer to Disassembly and Assembly, "Storage Box and Covers (Cab) - Remove and Install".

NOTICE

Effective July 1, 1992 regulations prohibit the venting of any refrigerant into the atmosphere. Refer to Caterpillar publications Service Manuals, SENR3334, SENR5664, and NEDG5065 for the proper procedure, the proper equipment, and the proper tools needed in order to reclaim refrigerant from any Caterpillar equipment.



WARNING

Personal injury can result from contact with refrigerant.

Contact with refrigerant can cause frost bite. Keep face and hands away to help prevent injury.

Protective goggles must always be worn when refrigerant lines are opened, even if the gauges indicate the system is empty of refrigerant.

Always use precaution when a fitting is removed. Slowly loosen the fitting. If the system is still under pressure, release it slowly in a well ventilated area.

Personal injury or death can result from inhaling refrigerant through a lit cigarette.

Inhaling air conditioner refrigerant gas through a lit cigarette or other smoking method or inhaling fumes released from a flame contacting air conditioner refrigerant gas, can cause bodily harm or death.

Do not smoke when servicing air conditioners or wherever refrigerant gas may be present.

Use a certified recovery and recycling cart to properly remove the refrigerant from the air conditioning system.

Note: Recover the air conditioner refrigerant before any hose assemblies are loosened or any bolts are loosened.

1. Recover the air conditioner refrigerant from the air conditioning system. The correct charge is 1.1 kg (2.42 lb). Refer to Service Manual, SENR5664, "Air Conditioning and Heating Systems with R-134a Refrigerant" for the procedure. Refer to Dealer Service Tool Catalog, NENG2500, "Air Conditioning Tools" for the correct tools.

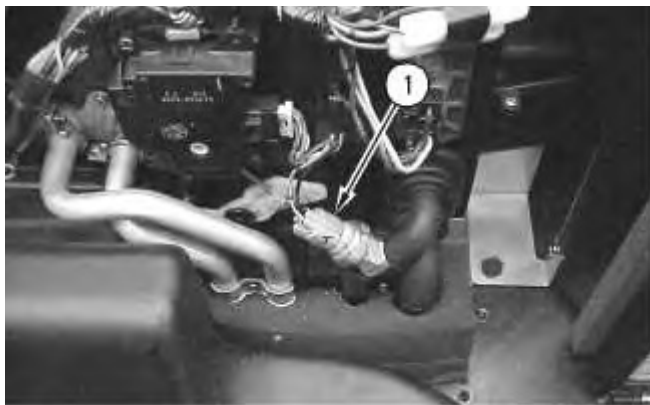


Illustration 1

g00907340

2. Disconnect harness assembly (1) from the pressure switch.
-



Illustration 2

g00706048

3. Remove pressure switch (2) .



Illustration 3

g00706050

4. Remove O-ring seal (3) from the pressure switch.
-

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i02809822

Pressure Switch (Refrigerant Pressure Cutoff) - Install

SMCS - 7309-012-QW; 7320-012-QW

Installation Procedure



Illustration 1

g00706050

1. Install new O-ring seal (3) on the pressure switch.
-



Illustration 2

g00706048

2. Install pressure switch (2) .



Illustration 3

g00907370

3. Connect harness assembly (1) to the pressure switch.



Personal injury can result from contact with refrigerant.

Contact with refrigerant can cause frost bite. Keep face and hands away to help prevent injury.

Protective goggles must always be worn when refrigerant lines are opened, even if the gauges indicate the system is empty of refrigerant.

Always use precaution when a fitting is removed. Slowly loosen the fitting. If the system is still under pressure, release it slowly in a well ventilated area.

Personal injury or death can result from inhaling refrigerant through a lit cigarette.

Inhaling air conditioner refrigerant gas through a lit cigarette or other smoking method or inhaling fumes released from a flame contacting air conditioner refrigerant gas, can cause bodily harm or death.

Do not smoke when servicing air conditioners or wherever refrigerant gas may be present.

Use a certified recovery and recycling cart to properly remove the refrigerant from the air conditioning system.

-
4. Charge the air conditioning system. The correct charge is 1.1 kg (2.42 lb). Refer to Service Manual, SENR5664, "Air Conditioning and Heating Systems with R-134a Refrigerant" for the procedure. Refer to Dealer Service Tool Catalog, NENG2500, "Air Conditioning Tools" for the correct tools.

End By: Install the storage box. Refer to Disassembly and Assembly, "Storage Box and Covers (Cab) - Remove and Install".

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i02336486

Control Panel (Air Conditioner) - Remove

SMCS - 7337-011

Removal Procedure



Illustration 1

g00705904

1. Remove screws (3) and (1) and cover (2) .

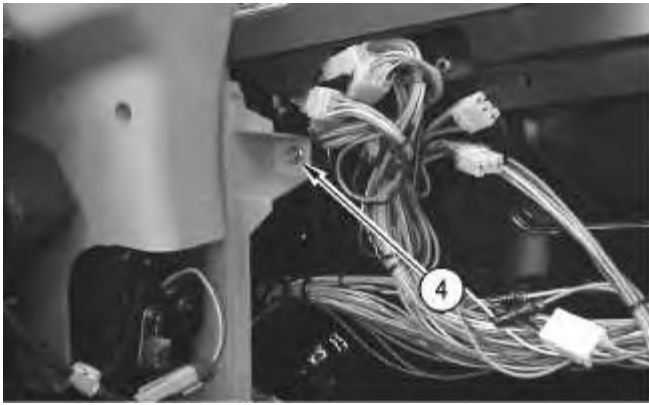


Illustration 2

g00705923

2. Remove bolt (4) from the cover.

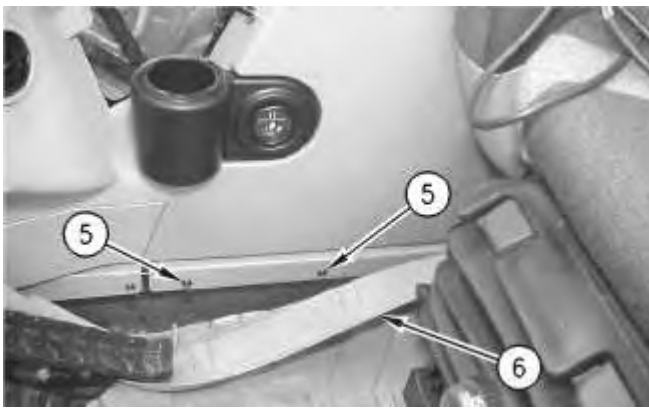


Illustration 3

g00705928

3. Reposition rubber floor mat (6) and remove screws (5) from the cover.



Illustration 4

g00705933

4. Remove screw (7) from cup holder (8) and remove cup holder (8) .

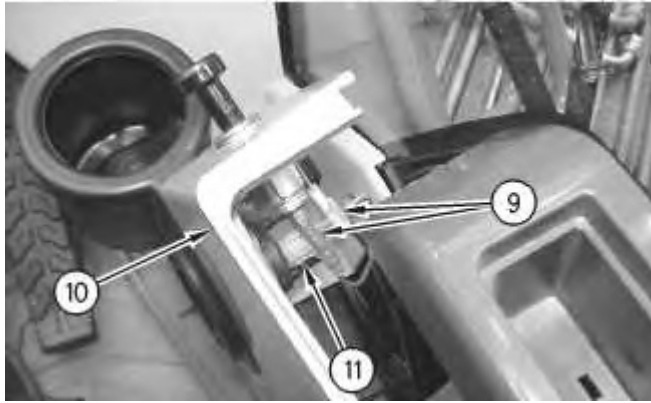


Illustration 5

g00705937

5. Reposition cover (10) in order to access the harness assemblies.
6. Disconnect harness assemblies (9) from the cigar lighter.
7. Disconnect harness assembly (11) from the hour meter.
8. Remove cover (10) from the cab.

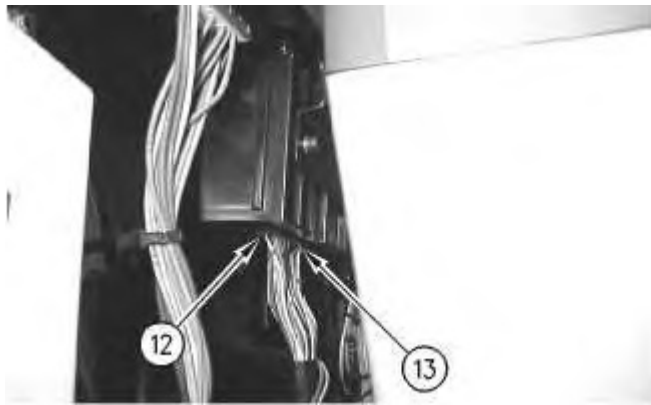


Illustration 6

g00705944

9. Disconnect harness assemblies (12) and (13) from the control panel.
-



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