



# Service Repair Manual

## **Model**

320C and 320C L Excavator

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Product: EXCAVATOR

Model: 320C EXCAVATOR BER

Configuration: 320C &amp; 320C L Excavators BER00001-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

i02332586

# Blower Motor (Air Conditioner, Heater) - Remove

SMCS - 7304-011-BW; 7309-011-BW; 7320-011-BW

## Removal Procedure

### Start By:

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

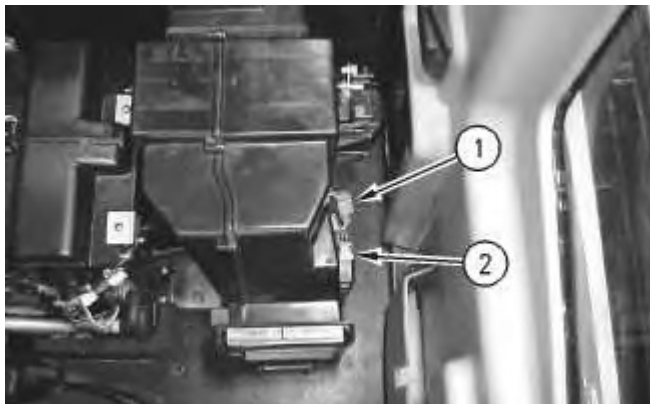
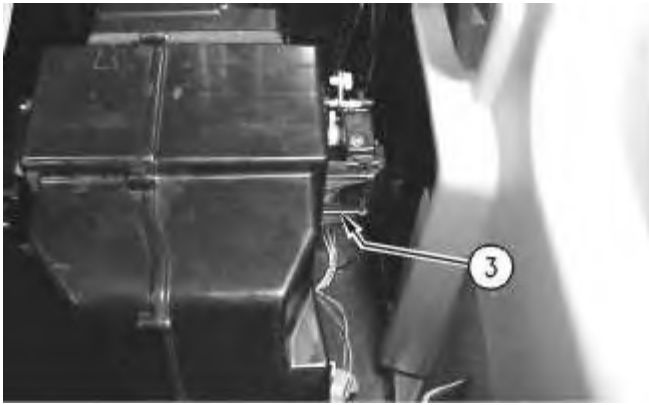


Illustration 1

g00698935

1. Disconnect harness assembly (1) from the cab air temperature sensor.
2. Disconnect harness assembly (2) from the relays.

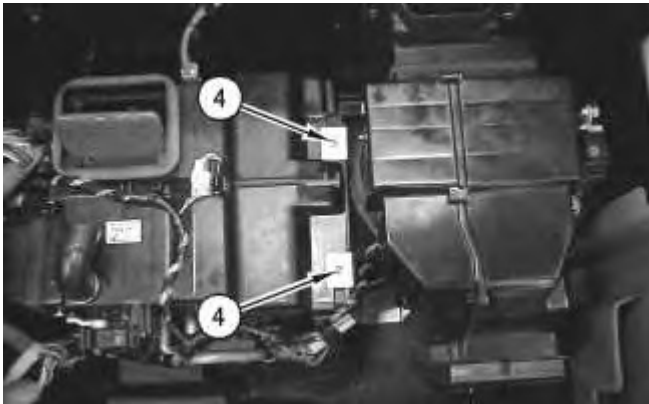


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Illustration 2

g00698960

3. Disconnect harness assembly (3) from the damper motor.

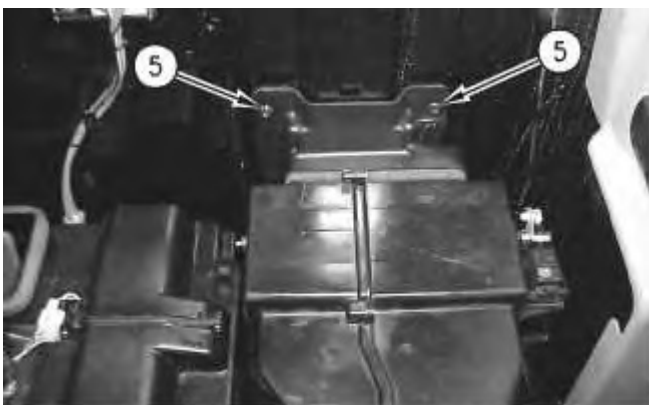


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Illustration 3

g00698971

4. Remove screws (4) and the brackets.



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Illustration 4

g00698972

5. Remove screws (5) from the air duct.
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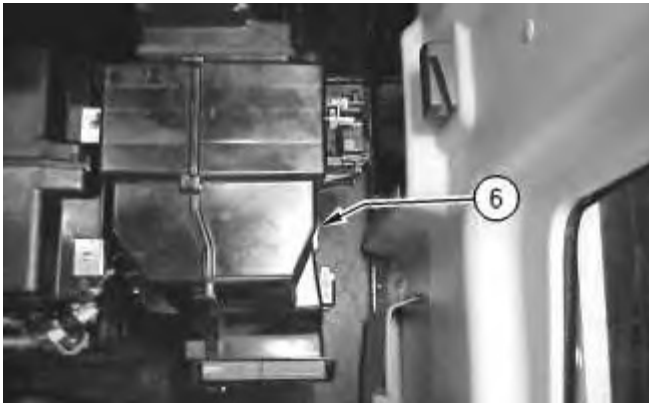
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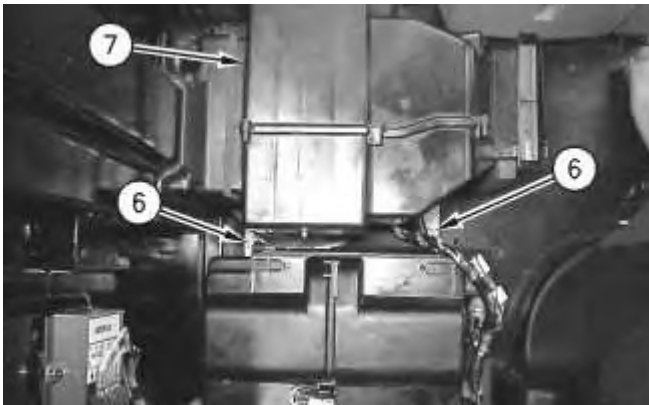
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Illustration 5

g00698974



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Illustration 6

g00698986

6. Remove bolts (6) that secure blower motor housing (7) to the platform.



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Illustration 7

g00699002

7. Carefully lift the blower motor housing in order to access harness assembly (8) on the blower motor.
  8. Disconnect harness assembly (8) from the blower motor.
-

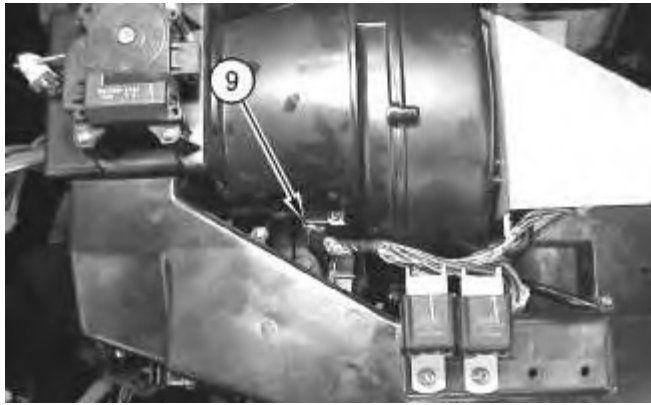


Illustration 8

g00699006

9. Disconnect cable strap (9) from the blower motor housing.
10. Remove the blower motor housing from the machine.



Illustration 9

g00699502

11. Remove screw (11) from the support.

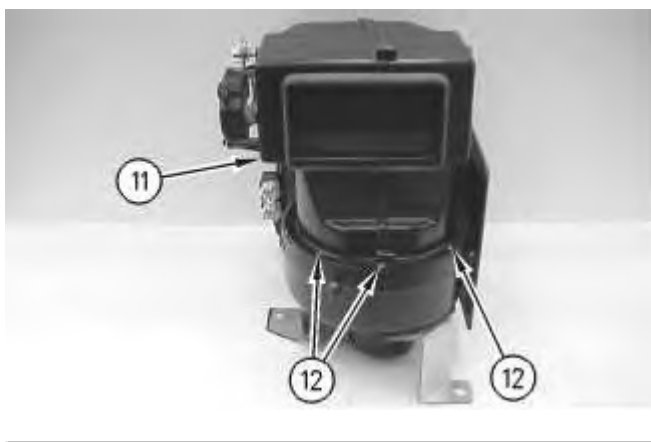


Illustration 10

g00699125

12. Remove screws (12).
13. Remove air duct (11) from the blower motor.

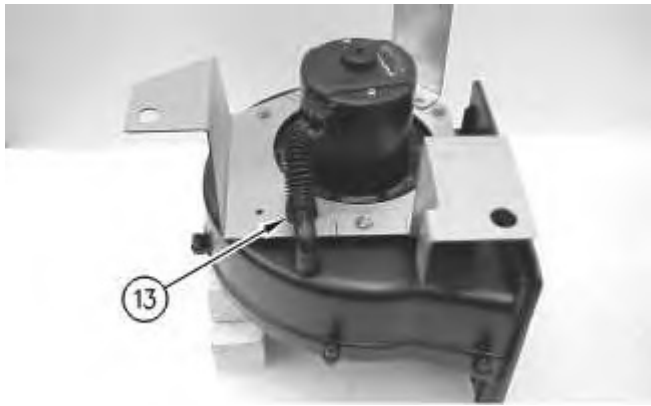


Illustration 11

g00699159

14. Remove hose assembly (13) from the blower motor.

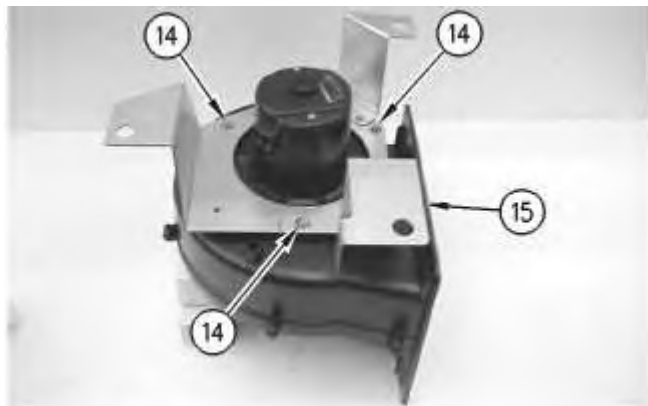


Illustration 12

g00699149

15. Remove bolts (14).
16. Remove support (15) from the blower motor.



Illustration 13

g00699163

17. Remove blower motor (16) from the housing.
-



Illustration 14

g00699166

18. Remove seal (17) from the blower motor.

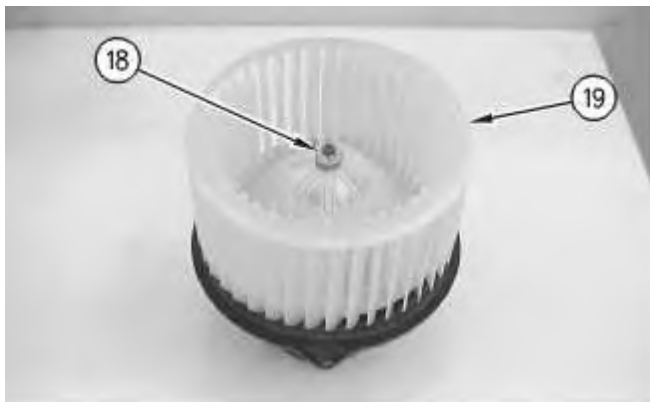


Illustration 15

g00699168

19. Remove retaining clip (18).
20. Remove blower wheel (19).

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Product: EXCAVATOR

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Configuration: 320C &amp; 320C L Excavators BER00001-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

i02332984

# Blower Motor (Air Conditioner, Heater) - Install

SMCS - 7304-012-BW; 7309-012-BW; 7320-012-BW

## Installation Procedure

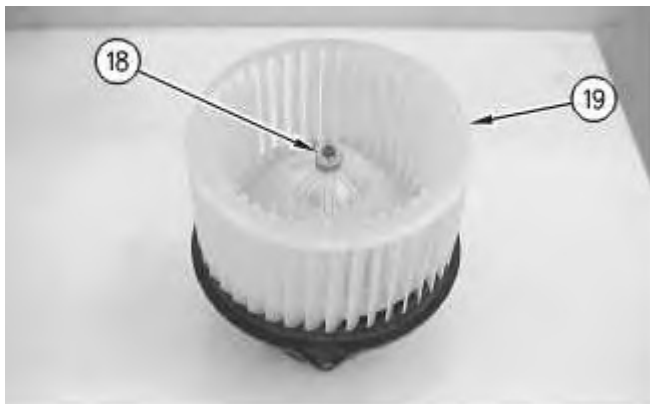


Illustration 1

g00699168

1. Install blower wheel (19).
2. Install retaining clip (18).



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Illustration 2

g00699166

3. Install seal (17) on the blower motor.



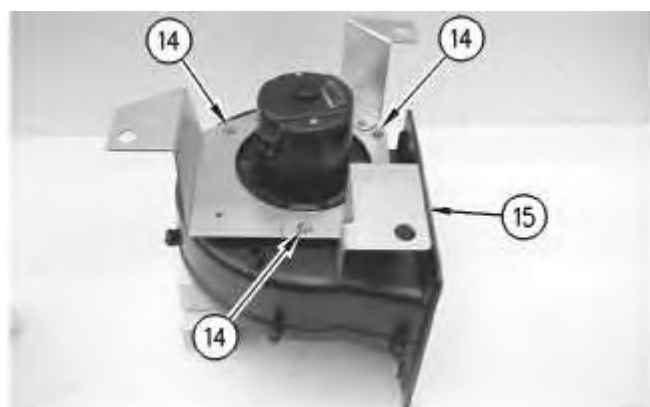
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Illustration 3

g00699163

**Note:** Make sure that blower motor (16) is properly aligned in the housing.

4. Install blower motor (16) in the housing.



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Illustration 4

g00699149

5. Install support (15) on the blower motor and install bolts (14).
-

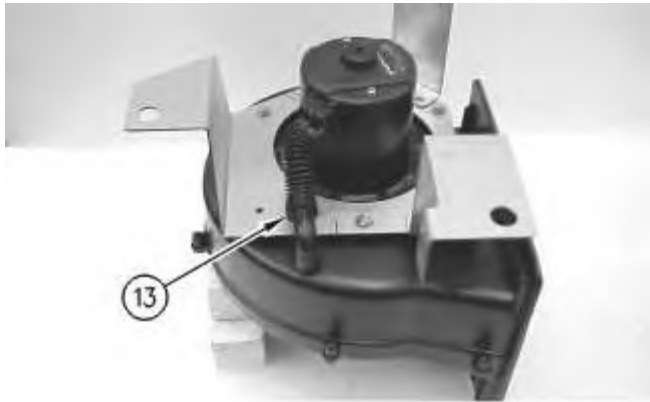


Illustration 5

g00699159

6. Install hose assembly (13) on the blower motor.

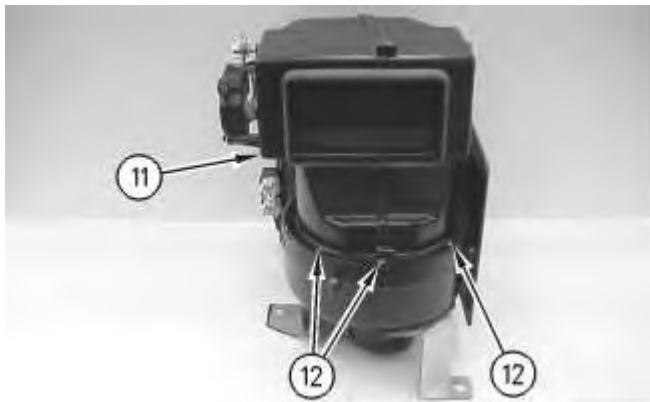


Illustration 6

g00699125

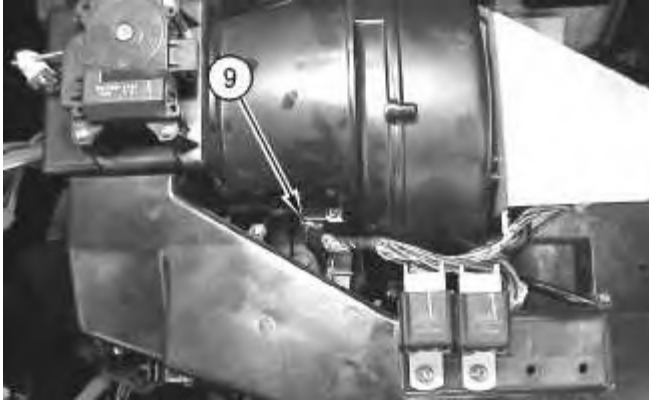
7. Install air duct (11) on the blower motor and install screws (12).



Illustration 7

g00699502

8. Install screw (10) in the support.

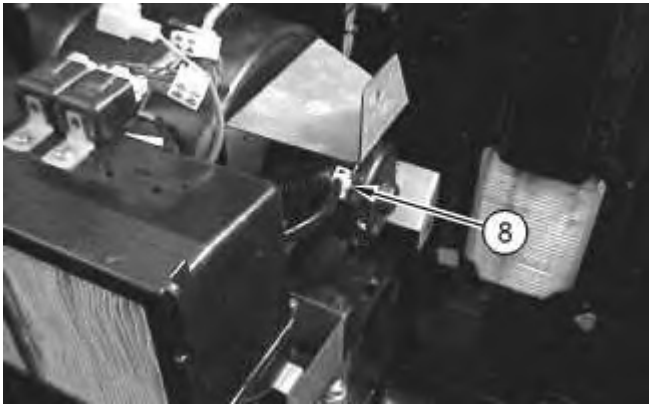


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Illustration 8

g00699006

9. Position the blower motor housing in the cab in order to access the harness assembly.
10. Connect cable strap (9) to the blower motor housing.

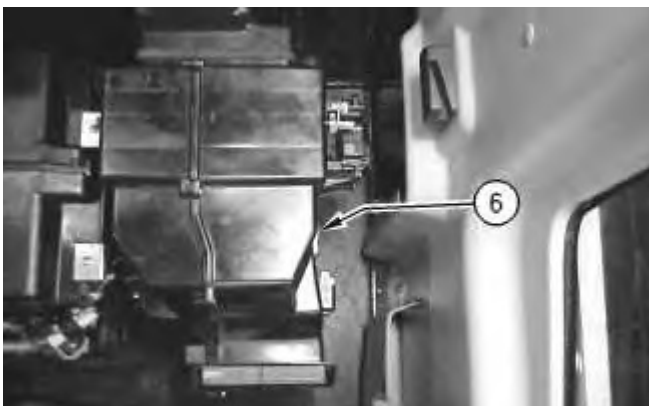


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Illustration 9

g00699002

11. Connect harness assembly (8) to the blower motor.



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Illustration 10

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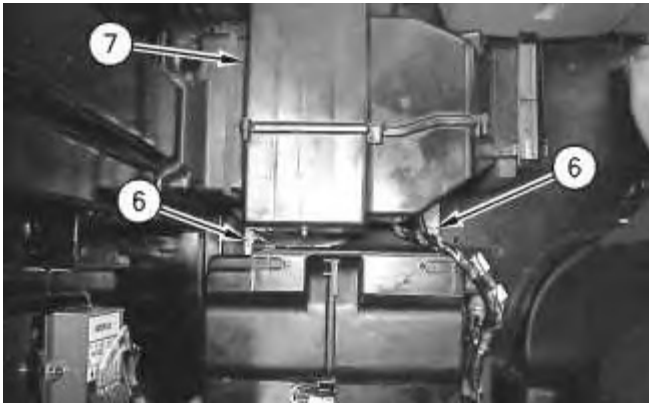


Illustration 11

g00698986

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

12. Carefully lift the blower motor housing. Install the blower motor housing.
13. Install bolts (6) that secure blower motor housing (7) to the platform.

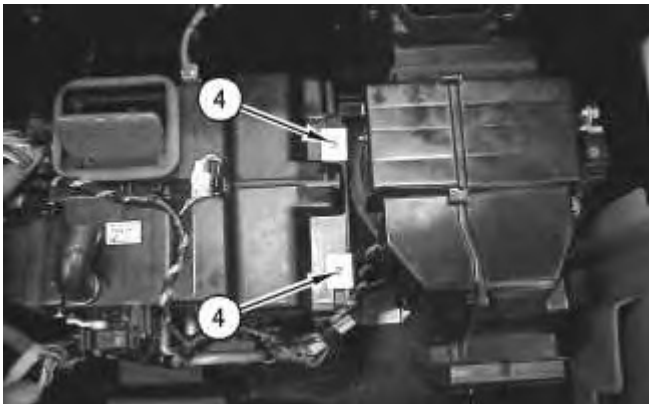


Illustration 12

g00698971

14. Install the brackets and screws (4).

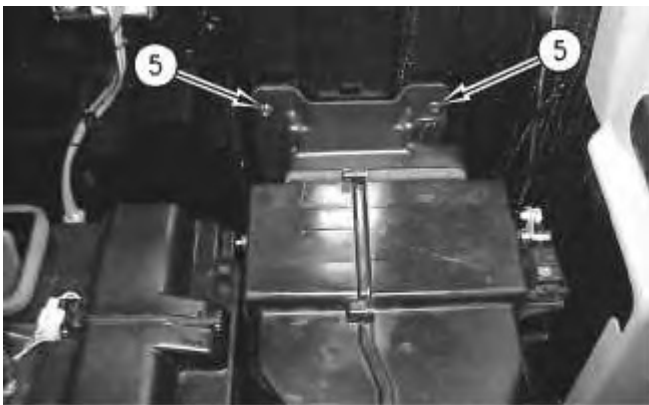


Illustration 13

g00698972

15. Install screws (5) in the air duct.

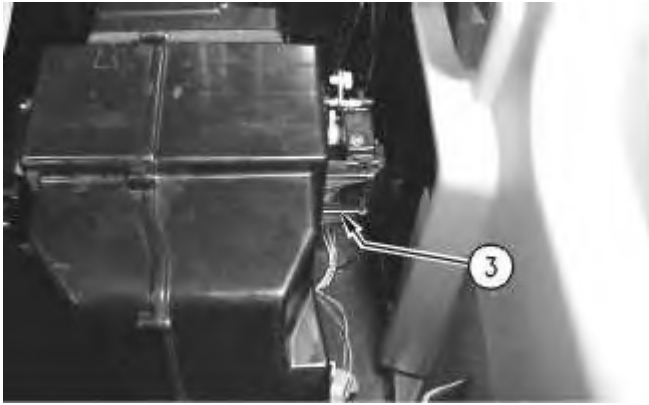


Illustration 14

g00698960

16. Connect harness assembly (3) to the damper motor.

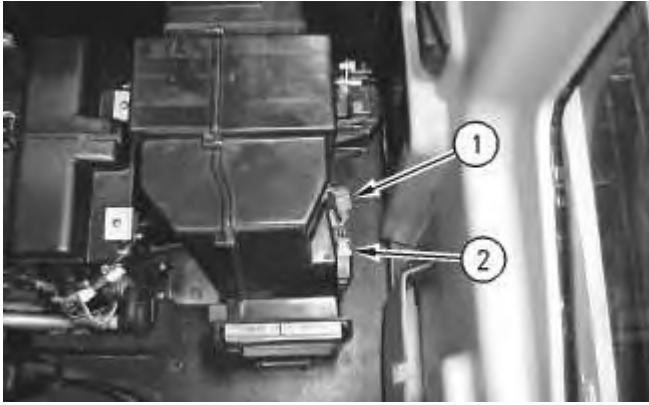


Illustration 15

g00698935

17. Connect harness assembly (2) to the relays.

18. Connect harness assembly (1) to the cab air temperature sensor.

**End By:**

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

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Product: EXCAVATOR

Model: 320C EXCAVATOR BER

Configuration: 320C &amp; 320C L Excavators BER00001-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

i02809819

# **Refrigerant Receiver-Dryer - Remove and Install**

SMCS - 7322-010

S/N - AMC1-UP

S/N - ANB1-UP

S/N - BBL1-UP

S/N - BCN1-UP

S/N - BDC1-UP

S/N - BDE1-UP

S/N - BEA1-UP

S/N - BER1-UP

S/N - BPR1-UP

S/N - BRX1-UP

S/N - CCD1-UP

S/N - DBG1-UP

S/N - EAG1-UP

S/N - EGA1-UP

S/N - EGL1-UP

S/N - GLA1-UP

S/N - HKT1-UP

S/N - JPL1-UP

S/N - JTG1-UP

S/N - MAB1-UP

S/N - MAC1-UP

S/N - PAB1-UP

S/N - PAC1-UP

S/N - RAW1-UP

S/N - SBN1-UP

## Removal Procedure

**Note:** Cleanliness is an important factor. Before the removal procedure, the exterior of the component should be thoroughly cleaned. This will help to prevent dirt from entering the internal mechanism.

**Note:** Put identification marks on all lines, on all hoses, on all wires, and on all tubes for installation purposes. Plug all lines, hoses, and tubes. This helps to prevent fluid loss and this helps to keep contaminants from entering the system.



**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.**

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1. Recover the air conditioner refrigerant from the air conditioning system. 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.
2. Open the access door that is located behind the cab.

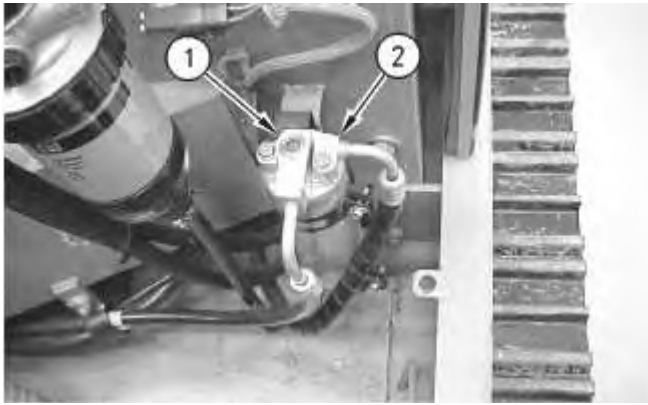


Illustration 1

g00700188

3. Remove the bolt and the washer in order to disconnect air conditioner hose assembly (2) from the refrigerant receiver-dryer.
4. Remove the bolt and the washer in order to disconnect air conditioner hose assembly (1) from the refrigerant receiver-dryer.

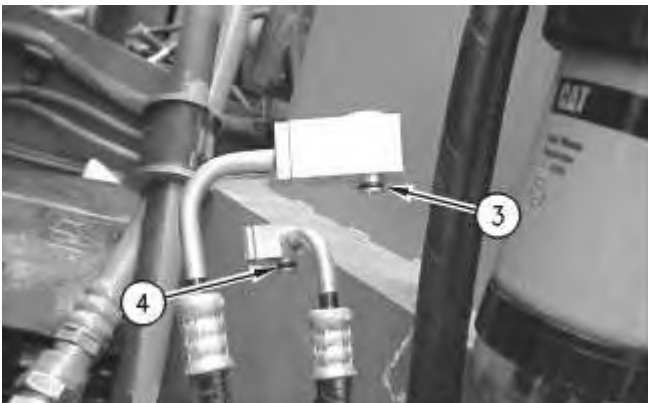


Illustration 2

g00700195

5. Remove O-ring seal (3) from the air conditioner hose assembly.

6. Remove O-ring seal (4) from the air conditioner hose assembly.

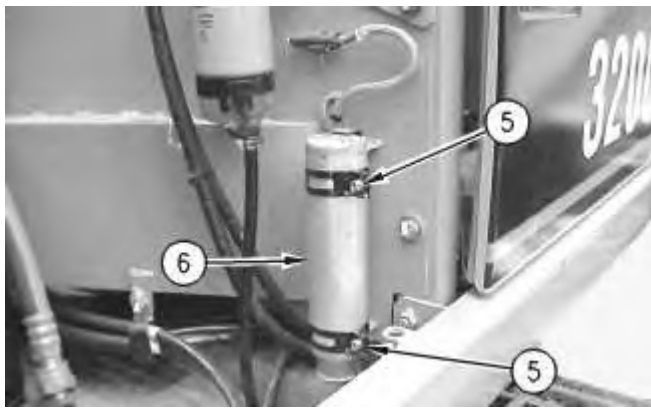


Illustration 3

g00700200

7. Remove bolts (5) and the washers.

8. Remove refrigerant receiver-dryer (6) .

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-6396	O-Ring Assembly Compound	
B	4C-2964	Refrigerant Leak Detector	1

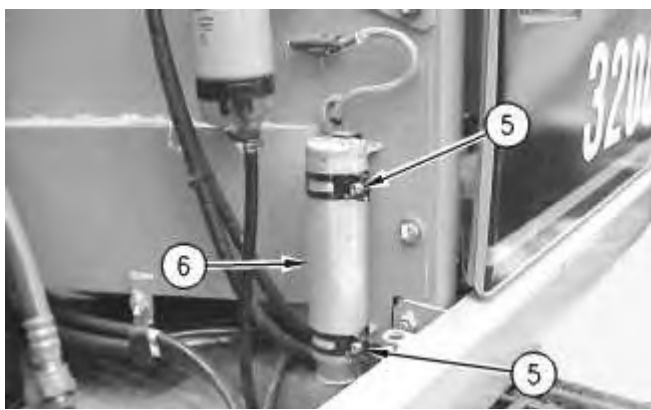


Illustration 4

g00700200

1. Install refrigerant receiver-dryer (6) in the mounting bracket.

2. Install the washers and bolts (5) . Tighten the bolts to a torque of  $20 \pm 5$  N·m ( $14.8 \pm 3.7$  lb ft).

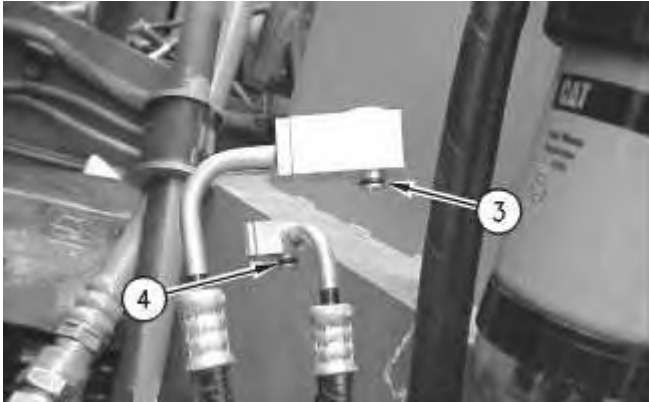


Illustration 5

g00700195

**Note:** O-ring seals should always be replaced. A used O-ring may not have the same sealing properties as a new O-ring. Use Tooling (A) during the assembly procedure.

3. Install new O-ring seal (3) on the air conditioner hose assembly.
4. Install new O-ring seal (4) on the air conditioner hose assembly.

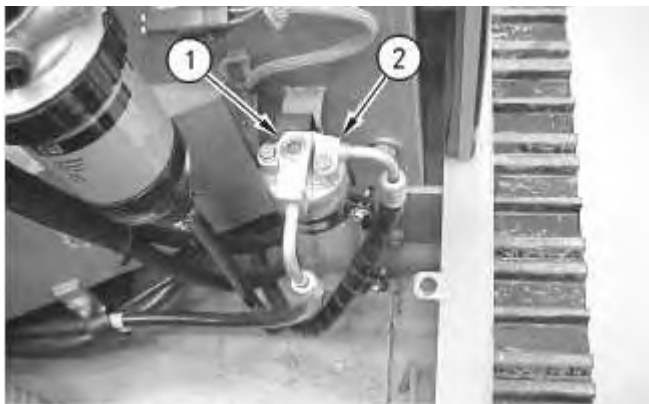


Illustration 6

g00700188

5. Connect air conditioner hose assembly (1) to the refrigerant receiver-dryer. Tighten the bolt to a torque of  $5.5 \pm 1.5$  N·m ( $48.68 \pm 13.28$  lb in).
6. Connect air conditioner hose assembly (2) to the refrigerant receiver-dryer. Tighten the bolt to a torque of  $5.5 \pm 1.5$  N·m ( $48.68 \pm 13.28$  lb in).
7. Close the access door.
8. Evacuate the air conditioning system.

**Reference** Refer to Testing and Adjusting, "Refrigerant System - Evacuate" for the correct procedure.

9. Charge the air conditioning system. The correct charge is 1.1 kg (2.42 lb).

**Reference** Refer to Testing and Adjusting, "Refrigerant System - Charge" for the correct procedure.

10. Check the entire air conditioning system for leaks.

**Note:** Use a Tooling (B) to check for leaks.

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Product: EXCAVATOR

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## Disassembly and Assembly 320C Excavator Machine Systems

Media Number -REN3826-16

Publication Date -01/11/2014

Date Updated -30/03/2016

i02333043

# Actuator Motor (Air Distributor) - Remove and Install

SMCS - 7304-010-MQ; 7309-010-MQ; 7320-010-MQ

## Removal Procedure

### Start By:

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

## Removal Procedure of the Actuator Motor for the Air Damper for the Temperature Control



Illustration 1

g00699772

1. Disconnect harness assembly (1) from the actuator motor.

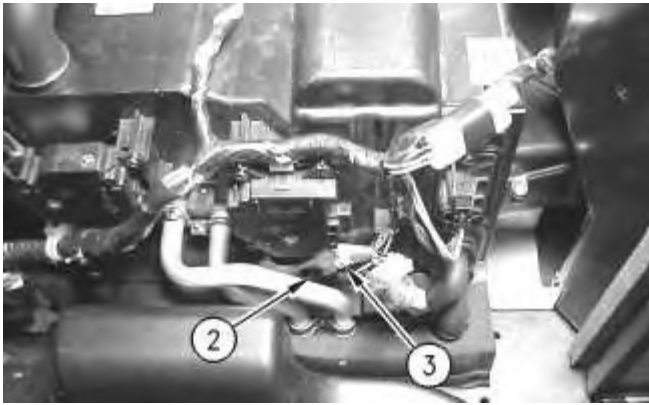


Illustration 2

g00699776

2. Remove screw (2) in order to disconnect linkage (3).

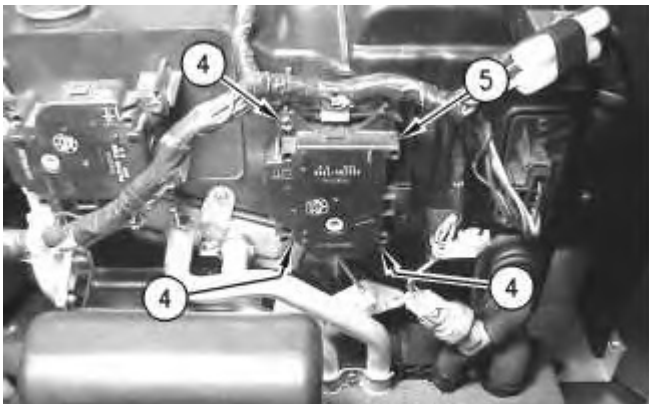


Illustration 3

g00699782

3. Remove screws (4) from the actuator motor.
4. Remove actuator motor (5).



Illustration 4

g00699790

5. Remove linkage (6) from the actuator motor.

## Removal Procedure of the Actuator Motor for the Front Air Damper

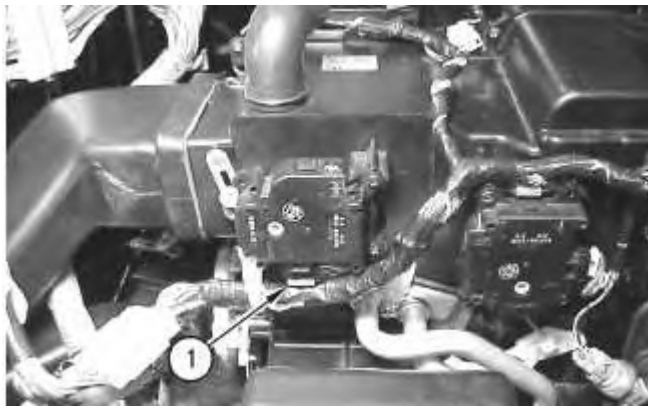


Illustration 5

g00699809

1. Disconnect harness assembly (1) from the actuator motor.

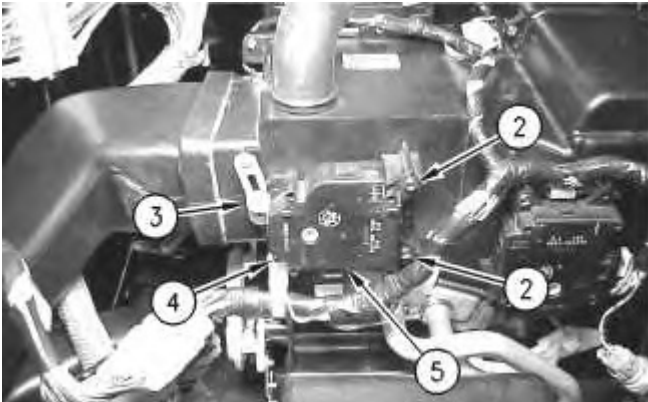


Illustration 6

g00699811

2. Remove screw (4). Remove the cable strap for the harness assembly.
3. Remove screws (2) from the actuator motor.
4. Remove actuator motor (5).



5. Remove linkage (3) from the actuator motor.

## Removal Procedure of the Actuator Motor for the Fresh Air or Recirculated Air Damper

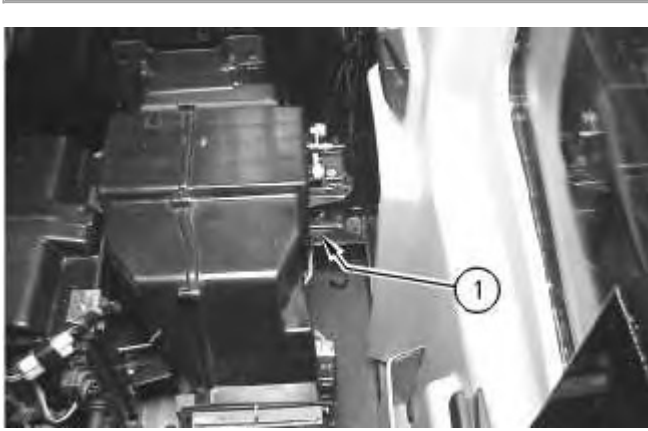


Illustration 8

1. Disconnect harness assembly (1) from the actuator motor.

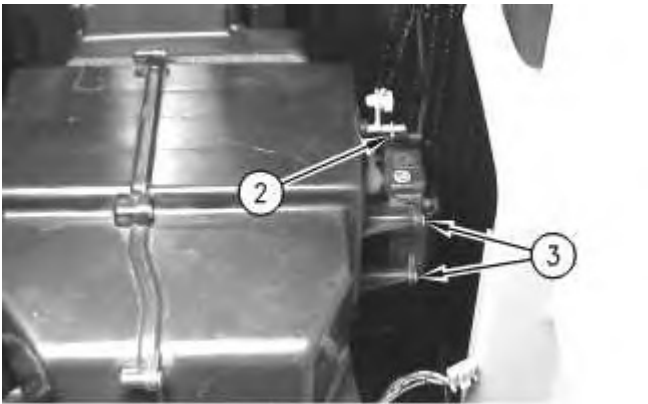


Illustration 9

2. Remove screw (2) from the linkage.
-



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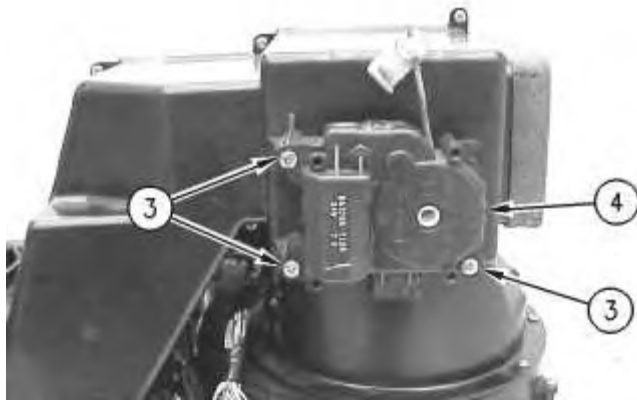


Illustration 10

g00699833

The heating and air conditioning unit is removed for photographic purposes.

3. Remove screws (3) from the actuator motor.
4. Remove actuator motor (4).



Illustration 11

g00699850

5. Remove linkage (5) from the actuator motor.

## **Removal Procedure of the Actuator Motor for the Air Damper for the Rear Window Defroster**



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