

Product: EXCAVATOR

Model: 322 L EXCAVATOR 8CL

Configuration: 322 322L TRACK-TYPE EXCAVATORS 8CL00001-UP (MACHINE) POWERED BY 3116 ENGINE

## **Disassembly and Assembly**

### **Air Conditioning and Heating R134a for All Caterpillar Machines**

Media Number -SEN5664-31

Publication Date -01/05/2015

Date Updated -23/10/2018

i05907621

## **Air Conditioner Lines - Remove and Install**

SMCS - 1808-010



**Personal injury can result from contact with refrigerant.**

**This system is under pressure at all times, even if the engine is not running. Heat should never be applied to a charged system.**

**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 caution when a fitting is removed. Slowly loosen the fitting. If the system is still under pressure, evacuate the system recovering the refrigerant before removing the fitting.**

**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.**

**Before any checks of the air conditioning and heating system are made, move the machine to a smooth horizontal surface. Lower all implements to the ground. Make sure the transmission is in neutral or park and that**

**the parking brake is engaged. Keep all other personnel away from the machine or where they can be seen.**

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**Personal injury can result from hot coolant. Any contact with hot coolant or with steam can cause severe burns. Allow cooling system components to cool before the cooling system is drained.**

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### **NOTICE**

**Never weld or solder any charged components.**

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Care must be taken during removal of air conditioner lines. Before disconnecting any tube fittings, refer to Testing and Adjusting, "Refrigerant Recovery" in order to recover all refrigerant from the system.

Place dust caps on all hoses and fittings upon disconnecting.

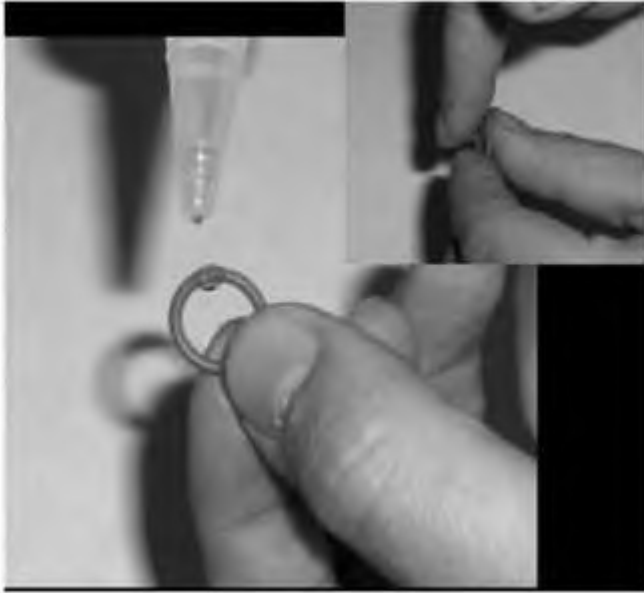
Do not fold or twist hoses when you are routing the new hoses onto the machine. Damage can occur to the inner layers of the hoses and damage can cause premature failure.

Reassemble fittings by using the correct torque values for assembly of the air conditioning unit. Refer to Specifications, SENR3130, "Torque Specifications" in order to find the correct torque value.

Use the following procedure to reassemble the connections.

## **Proper Technique for Assembly**

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Illustration 1

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1. Drip clean mineral oil onto the clean O-ring.



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Illustration 2

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2. Place the O-ring on fitting.
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