



# Service Repair Manual

## **Models**

# C9 Industrial Engine

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Product: INDUSTRIAL ENGINE  
 Model: C9.3 INDUSTRIAL ENGINE C9N  
 Configuration: C9 Industrial Engine C9N00001-UP

## Disassembly and Assembly C9.3 Industrial Engine

Media Number -KENR8164-02

Publication Date -01/11/2017

Date Updated -14/11/2017

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# Disconnecting Snap To Connect Fittings

SMCS - 7554-X6

## Disconnection Procedure

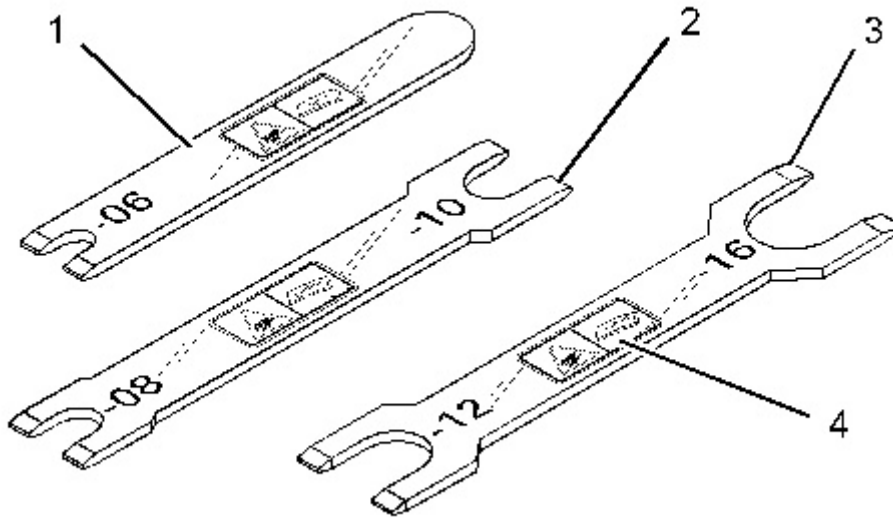


Illustration 1

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Table 1

| 304-1165 Tool Kit |          |             |              |
|-------------------|----------|-------------|--------------|
| Item              | Part No. | description | Fitting Size |
| 1                 | 304-1166 | STC Wrench  | -06          |
| 2                 | 304-1167 | STC Wrench  | -08 and -10  |

|   |          |              |             |
|---|----------|--------------|-------------|
| 3 | 304-1168 | STC Wrench   | -12 and -16 |
| 4 | 341-2603 | Warning Film | -           |
| 5 | 276-7018 | Plug/Cap Kit | -           |
| - | 304-2721 | Tool Pouch   | -           |



## WARNING

**Personal injury can result from removing hoses or fittings in a pressure system.**

**Failure to relieve pressure can cause personal injury.**

**Do not disconnect or remove hoses or fittings until all pressure in the system has been relieved.**

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## NOTICE

**Using the incorrect size snap to connect (STC) wrench can cause slippage, resulting in personal injury. Always verify that the STC wrench size matches the size fitting to be disconnected.**

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1. Lower all work tools and attachments to the ground.
  2. Release the system pressure. Refer to Disassembly and Assembly, "System Pressure - Release".
  3. Clean the connection that is to be disassembled. Clean the surrounding area to ensure that the connection is free of all dirt, dust, and grit.
  4. Pressure can be trapped in circuits after the engine has stopped. Personal injury or death can result if all pressures are not released. Ensure that the pressure is zero in the line that is being disconnected.
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Illustration 2

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5. Select the designated release tool for the size of the connection. Using the wrong tool may result in damage to the coupling, or cause slippage, resulting in unsafe conditions.

**Note:** Prying on the connection may result in damage to the release sleeve, requiring hose replacement.

6. Insert the release tool behind the release sleeve, so that the release tool is perpendicular to the connection. Fully insert the release tool to cause the release sleeve to move and separate the retaining ring. The coupling may now be separated.
7. Pull on the hose in the direction parallel to the axis of connection while keeping the release tool engaged. Pulling the hose at an angle may result in extra force required to disconnect the connection.
8. Cover both ends of the connection with recommended plugs or caps to avoid contamination.

## Connection Procedure

1. Clean the connection that is to be assembled. Ensure that the connection is free of all dirt, dust, and grit.



**Note:** If the release sleeve is damaged during the connection or disconnection of the STC connection, the male portion must be replaced with new parts.

**Note:** Do not use the rubber sleeve as leverage to push the male half into the female half of the STC connection.

2. Align the STC fitting on the hose assembly with the STC connector. Push the hose fitting into the mating connector until you feel a definite snap and a solid stop.
3. Pull straight back on the connection. An improperly made connection will disconnect.

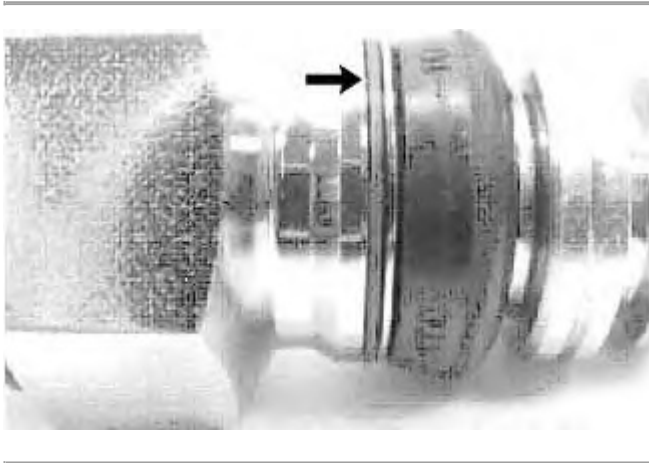


Illustration 4

Red ring, on an improper connection.

4. Check for a visible red ring. An improper assembly shows the red ring.

**Note:** For more information on the operation and the maintenance of Snap to Connect wrenches, refer to Tool Operating Manual, NEHS1083.

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## Muffler - Remove and Install

SMCS - 1061-010; 1062-010

### Removal Procedure

#### Start By:

- a. Remove the air cleaner housing.

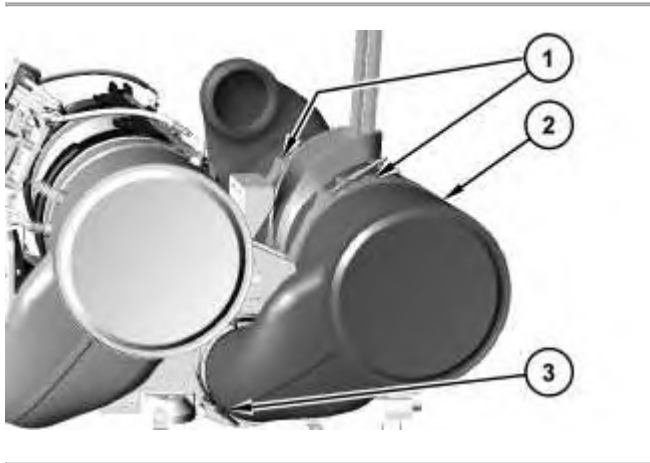


Illustration 1

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1. Attach a suitable lifting device to muffler (2). The weight of the muffler is approximately 29 kg (64 lb).
2. Disconnect clamp assemblies (1) and (3).
3. Use the suitable lifting device to remove muffler (2).

### Installation Procedure

1. Install muffler (2) in reverse order.

a. Tighten clamp assemblies (1) and (3) to a torque of  $12 \pm 1 \text{ N}\cdot\text{m}$  ( $106 \pm 9 \text{ lb in}$ ).

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