

**TOYOTA Highlander 2010 - STAINLESS STEEL EXHAUST TIP**

**Part Number: 00016-48935**

**Code: CT9**



**Conflicts**

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**Kit Contents**

| Item # | Quantity Req'd. | Description                    |
|--------|-----------------|--------------------------------|
| 1      | 1               | Stainless Steel Exhaust Tip    |
| 2      | 1               | Stainless Steel Clamp Assembly |
| 3      | 1               | Installation Instructions      |

**Hardware Bag Contents**

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-------------|
| None   |                 |             |

**Additional Items Required For Installation**

| Item # | Quantity Req'd. | Description |
|--------|-----------------|-------------|
| None   |                 |             |

**Recommended Tools**

| <b>Personal &amp; Vehicle Protection</b> | <b>Notes</b>           |
|--|------------------------|
| None                                     |                        |
| <b>Special Tools</b>                     | <b>Notes</b>           |
| None                                     |                        |
| <b>Installation Tools</b>                | <b>Notes</b>           |
| <b>Installation Tools</b>                |                        |
| Ratchet                                  |                        |
| Socket                                   | 15 mm Deep Well Socket |
| Torque Wrench                            | 55 N-m                 |
| Rubber Mallet                            |                        |
| Non-scratch Cloth                        |                        |
| Wiping Cloth                             |                        |
|  |                        |
| <b>Special Chemicals</b>                 |                        |
| Glass Cleaner                            | Dealer Installed       |
| Approved Cleaner                         | VDC Installed          |

**General Applicability**

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**Recommended Sequence of Application**

| Item # | Accessory   |
|--------|-------------|
| 1      | Exhaust Tip |
|        |             |
|        |             |
|        |             |

\*Mandatory

**STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

**OPERATOR SAFETY:** Use caution to avoid risk of injury.

**CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

**TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

**REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

**SAFETY TORQUE:** This mark indicates that torque is related to safety.

**SPECIAL NOTE: Installation Sequences**

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

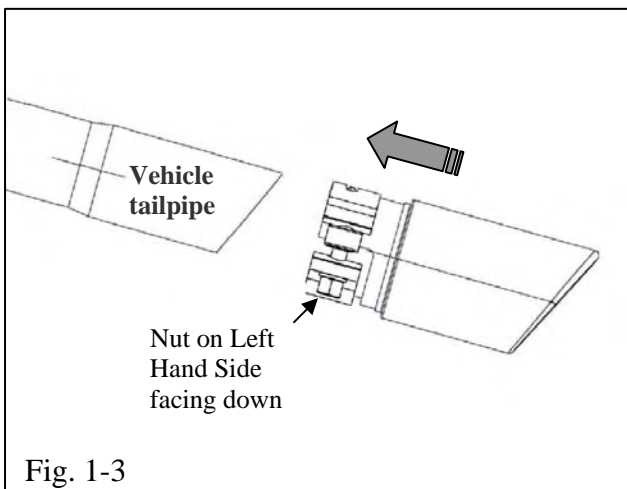
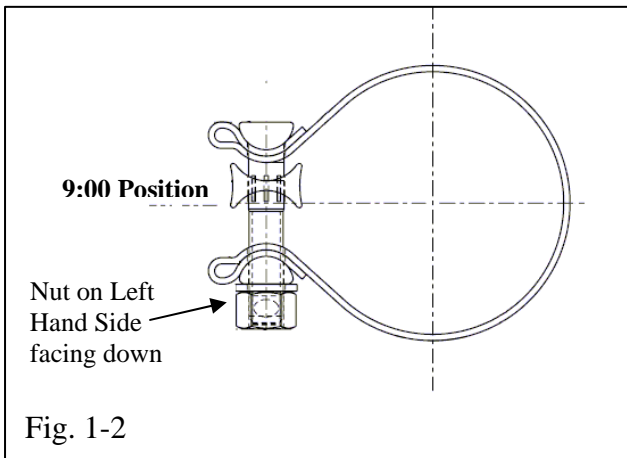
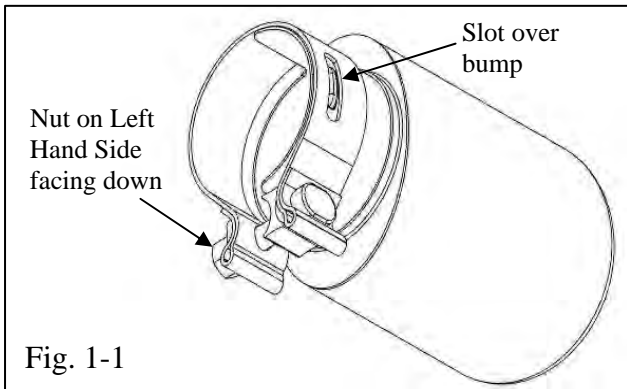
**Procedure**

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).



**1. Installation.**

- (a) Make sure the vehicle’s tail pipe is free from dirt and debris.
- (b) Remove exhaust tip from box and set on a soft surface to prevent scratching.
- (c) Slide the Stainless Steel clamp over the stainless steel exhaust tip inlet as shown. (Fig 1-1)



- (1) Locate the bolt of the clamp at the left side (driver side) of the exhaust tip inlet with the nut facing down as shown. (Fig 1-1 & 1-2)



- (2) Make sure that the slot on the clamp is located over the bump on the exhaust tip as shown. (Fig. 1-1)

- (d) Slide the exhaust tip & clamp assembly over the tail pipe. (Fig 1-3)
  - (1) If necessary, a rubber mallet may be used to aid installation.

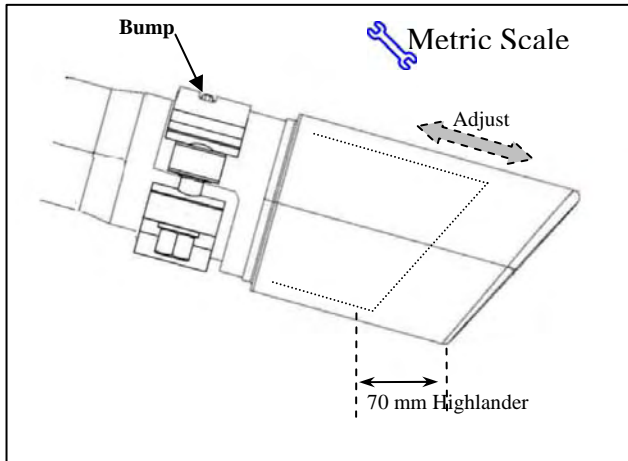


Fig. 1-4

- (2) Continue sliding the exhaust tip over the tail pipe until there is approximately (70 mm –Highlander) or approximately distance between the end of the tail pipe and the end of the exhaust tip as shown. (Fig. 1-4)

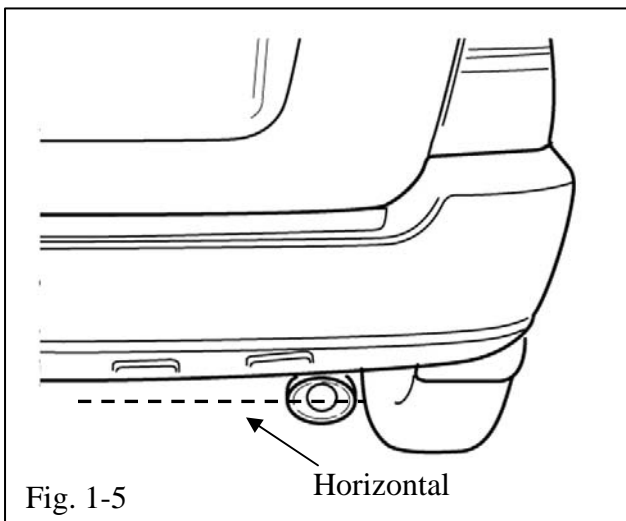


Fig. 1-5

- (e) Align the exhaust tip so that the oval is horizontal to the rear bumper fascia. (Fig.1-6)
- (f) Once the tip is positioned correctly and the alignment seems accurate, tighten the clamp nut making sure the clamp remains in the proper position. (Fig.1-5 & 1-6)

**NOTE: Make sure the slot on the clamp is positioned over the bump on the exhaust tip before final torque. (Fig. 1-6)**

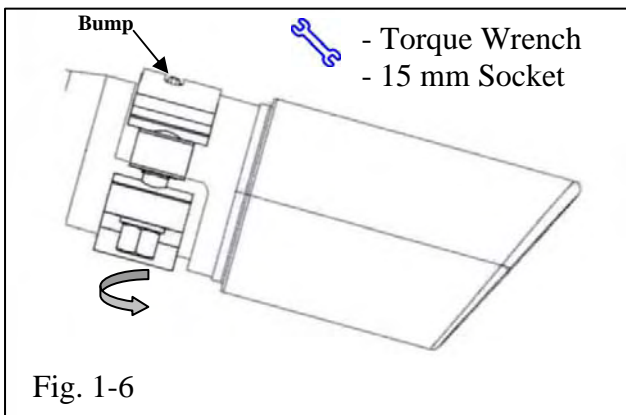


Fig. 1-6

- (g) Torque clamp nut to 55 N-m  $\pm$  8 N-m (40.57 ft-lbf  $\pm$  5.9 ft-lbf)


- (h) Clean exhaust tip with glass cleaner or approved cleaner and non-scratching cloth

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

Look For:

Accessory Function Checks

- Correct part number has been installed.
-   Nut Torque
- Clamp Alignment
- Tip Alignment

Verify part number on package.

Nut Torque should be: 55 N-m ± 8 N-m  
(40.57 ft-lbf ± 5.9 ft-lbf)

Clamp should be oriented with bolt on the left side with the nut facing down. Slot should be on top over the bump.

Tip oval should be horizontal to rear bumper fascia.

Vehicle Function Checks

- Rattle or vibration
- 
- 

Start engine and check for rattle or vibration of exhaust tip.