TECHNICAL INSTRUCTIONS

FOR

SAFETY RECALL H0H

CRANKSHAFT POSITION SENSOR REPLACEMENT

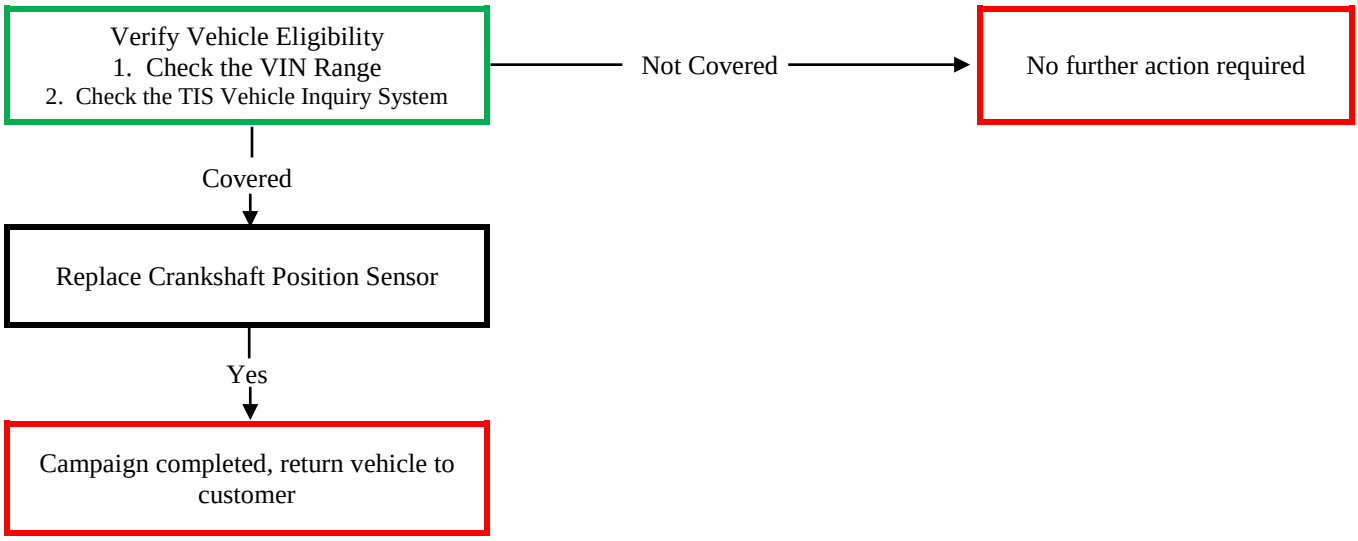
CERTAIN 2016-2017 MODEL YEAR TACOMA

The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course “Safety Recall and Service Campaign Essentials”. To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- Certified Technician (Engine)
- Expert Technician (Engine)
- Master Technician
- Master Diagnostic Technician

Always check which technicians can perform the recall remedy by logging on to https://www.uotdealerreports.com. It is the dealership’s responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the Campaign has not already been competed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs completed on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

Part Number	Part Description	Quantity
90919-05098	Sensor, Crank Position	1

B. TOOLS AND EQUIPMENT

- Techstream
- Standard Hand Tools
- Torque Wrench
- Protective Gloves
- Protective Glasses

C. MATERIALS

- Engine Oil

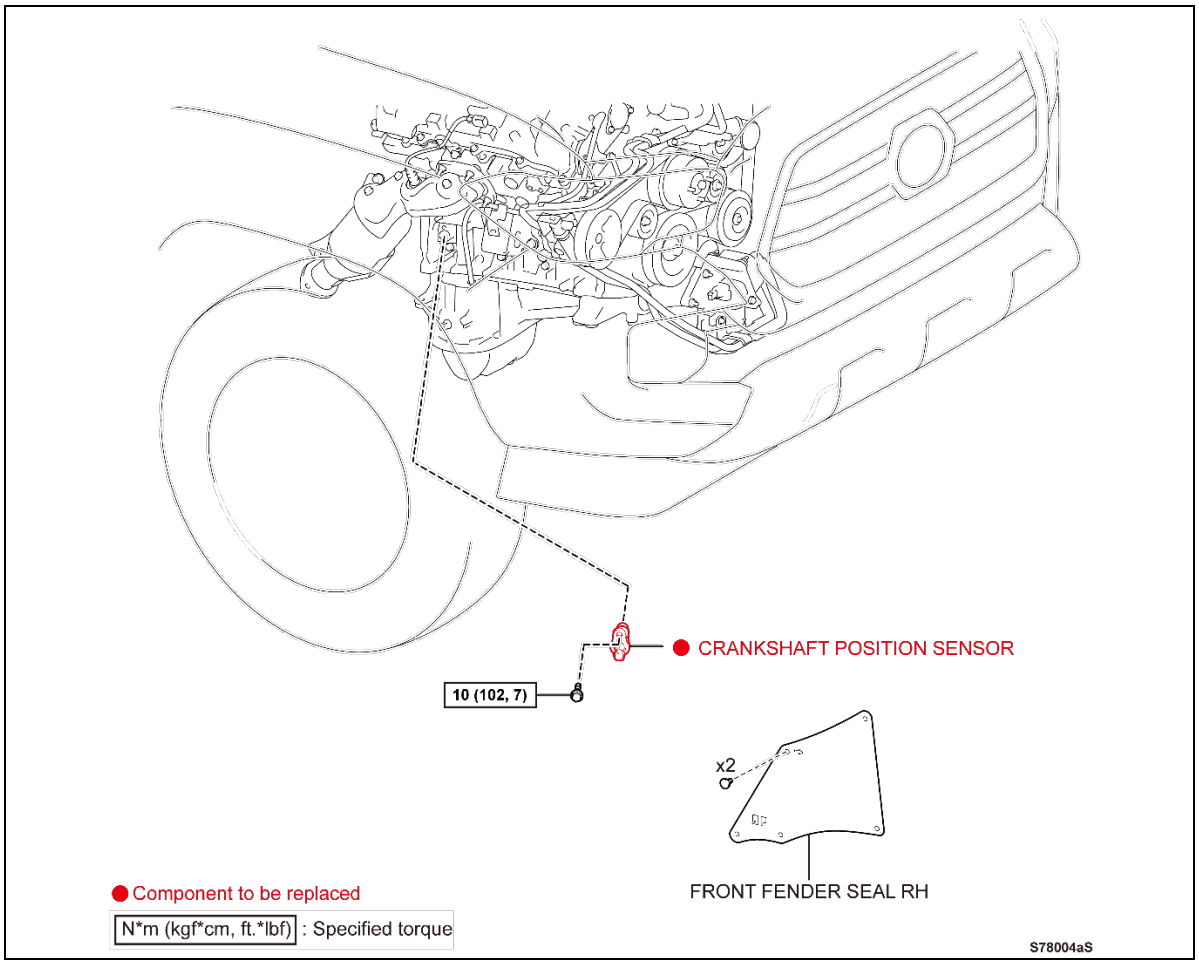
IV. WORK PROCEDURE TABLE OF CONTENTS

V. BACKGROUND

The V6 engine crankshaft timing rotor in the involved vehicles may have been produced with excessive anti-corrosion coating. This could cause the crankshaft position sensor to malfunction. If this occurs, the vehicle may display a Malfunction Indicator Light (MIL), run roughly, misfire, or in some instances, stall. A stalling condition while driving at higher speeds may increase the risk of a crash

VI. WORK PROCUDURE

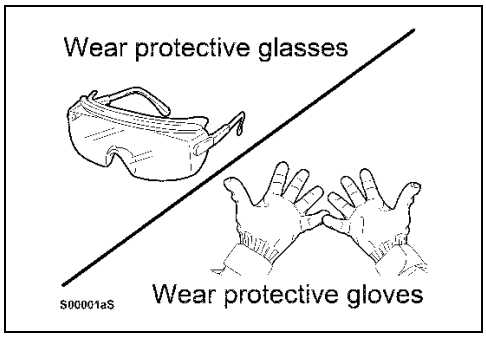
A. COMPONENTS



VII. REMOVE CRANKSHAFT POSITION SENSOR

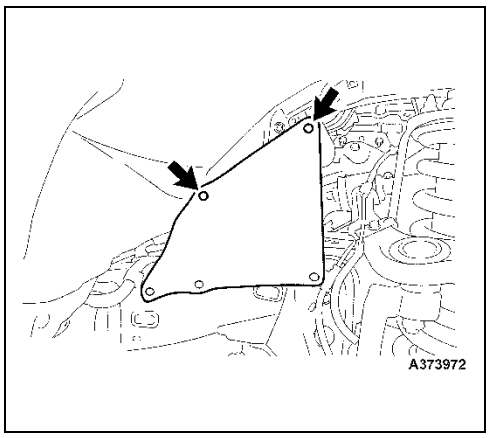
1. CHECK FOR DTC(S)

a. If a DTC(s) is displayed, record the DTC and freeze frame data and perform the repairs as necessary



2. WEAR PROTECTIVE GLOVES AND GLASSES

a. Wear protective gloves to prevent burns and injuries
b. Wear protective glasses when working under the vehicle or where there is any risk of flying parts or debris.



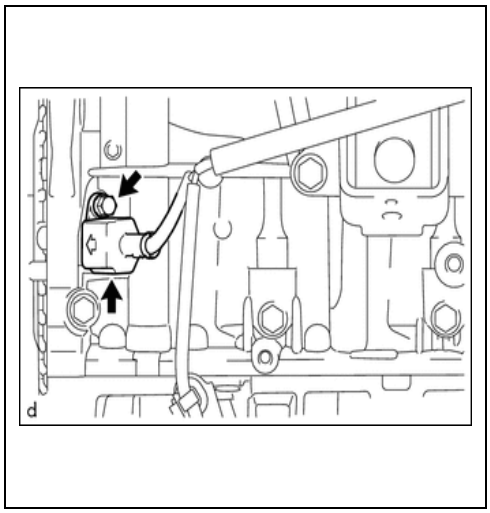
3. LIFT THE VEHICLE UP

4. REMOVE FRONT RH WHEEL

5. REMOVE FRONT FENDER SEAL RH

a. Remove the 2 clips and the front fender seal RH

NOTE: The 3 lower clips do **NOT** have to be removed to replace the Crankshaft Position sensor



6. REMOVE CRANKSHAFT POSITION SENSOR

a. Disconnect the connector from the crankshaft position sensor
b. Remove the bolt and crankshaft position sensor from the engine block.

***DO NOT* touch the hot exhaust manifold, as it may cause serious burns.**

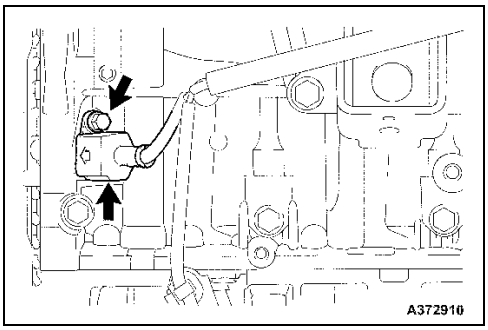
c. Mark and store the removed crankshaft position sensor in a separate container so as not to reinstall it in error.

VIII. INSTALL *NEW* CRANKSHAFT POSITION SENSOR

1. INSTALL *NEW* CRANKSHAFT POSITION SENSOR

a. Apply a light coat of engine oil to the O-ring of the **NEW** crankshaft position sensor

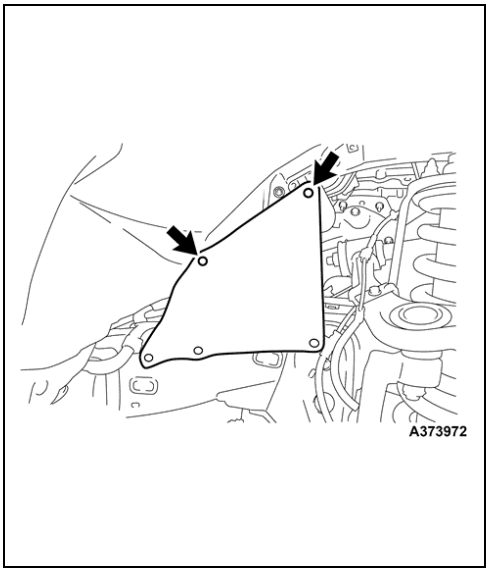
- **If the O-ring has scratches or cuts, replace the crankshaft position sensor.**
- **Be sure to apply engine oil, or the O-ring may become damaged during installation of the *NEW* sensor.**
- **DO NOT use grease or any lubricants other than engine oil.**



b. Install the **NEW** crankshaft position sensor to the engine block with the bolt

Specified Torque:
7 ft.lbs {10 N.m, 102 kgf.cm}

c. Connect the connector to the **NEW** crankshaft position sensor



2. REINSTALL FRONT FENDER SEAL RH

a. Reinstall the front fender seal RH with the 2 clips

3. REINSTALL THE FRONT RH WHEEL

4. LIFT THE VEHICLE DOWN

5. TIGHTEN FRONT RH WHEEL TO SPECIFIED TORQUE

Specified Torque:
83 ft.lbs {113 N.m, 1152 kgf.cm}

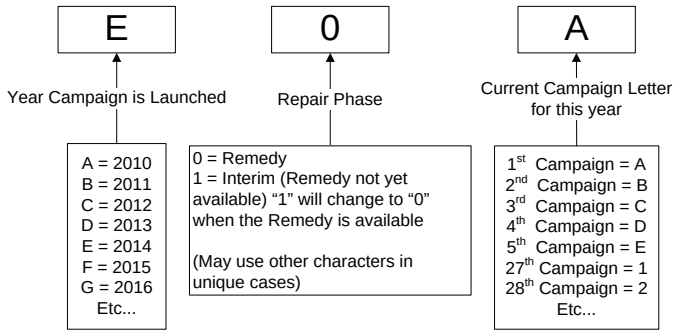
6. CHECK AND CLEAR DTC(S)

IX. APPENDIX

A. PARTS DISPOSAL

As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return***.

B. CAMPAIGN DESIGNATION DECORDER



Examples:

A0D = Launched in 2010, Remedy Phase, 4th Campaign Launched in 2010

B1E = Launched in 2011, Interim Phase, 5th Campaign Launched in 2011

C1C = Launched in 2012, Interim Phase, 3rd Campaign Launched in 2012