

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM10000002B3G3
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: M20A-FXS (ENGINE CONTROL): AIR FUEL RATIO SENSOR (for Sensor 1): INSTALLATION; 2023 - 2024 MY Prius Prius Prime [03/2023 -]		

INSTALLATION

CAUTION / NOTICE / HINT

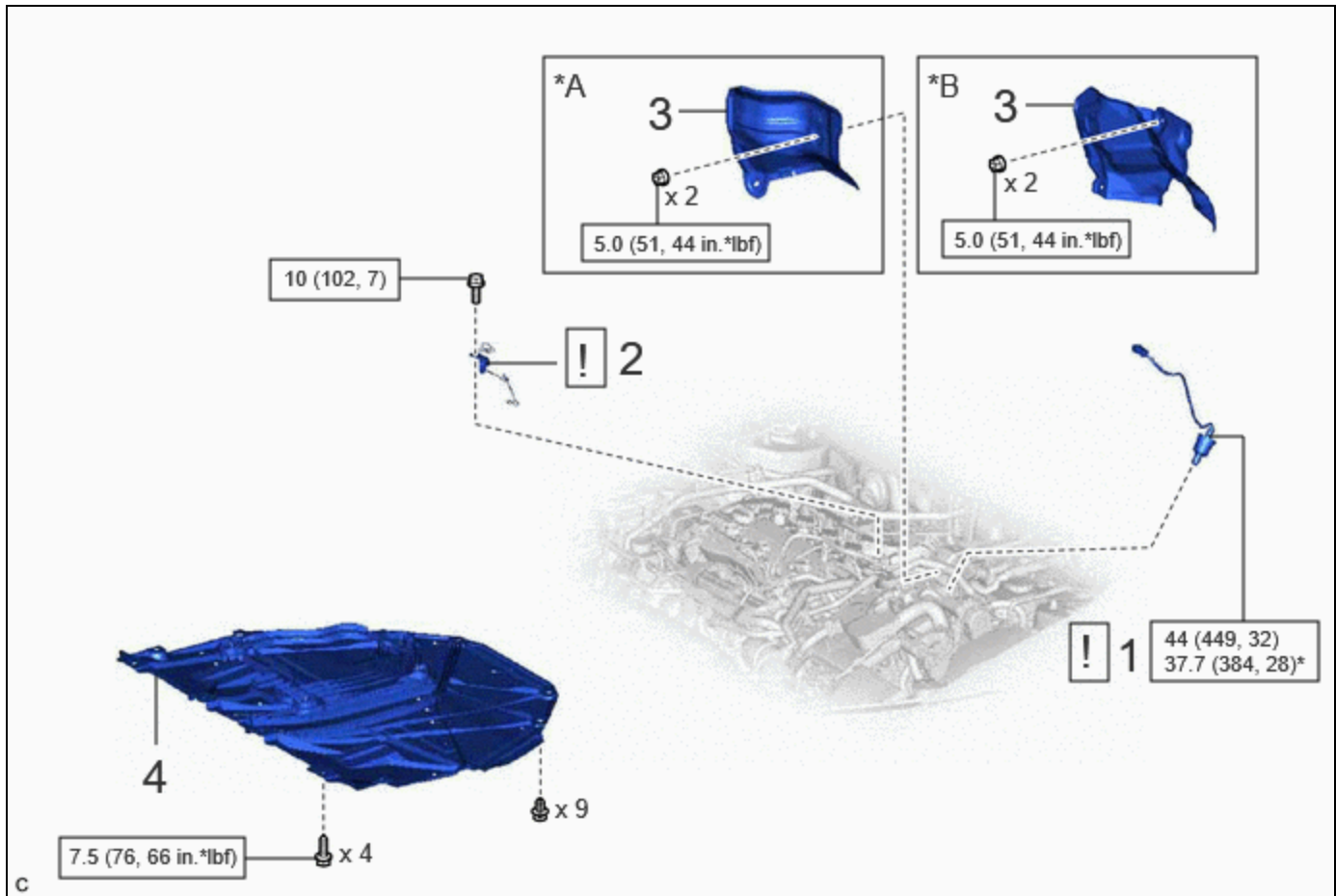
NOTICE:

This procedure includes the installation of small-head bolts. Refer to Small-Head Bolts of Basic Repair Hint to identify the small-head bolts.




Click here [INFO](#)


CAUTION / NOTICE / HINT

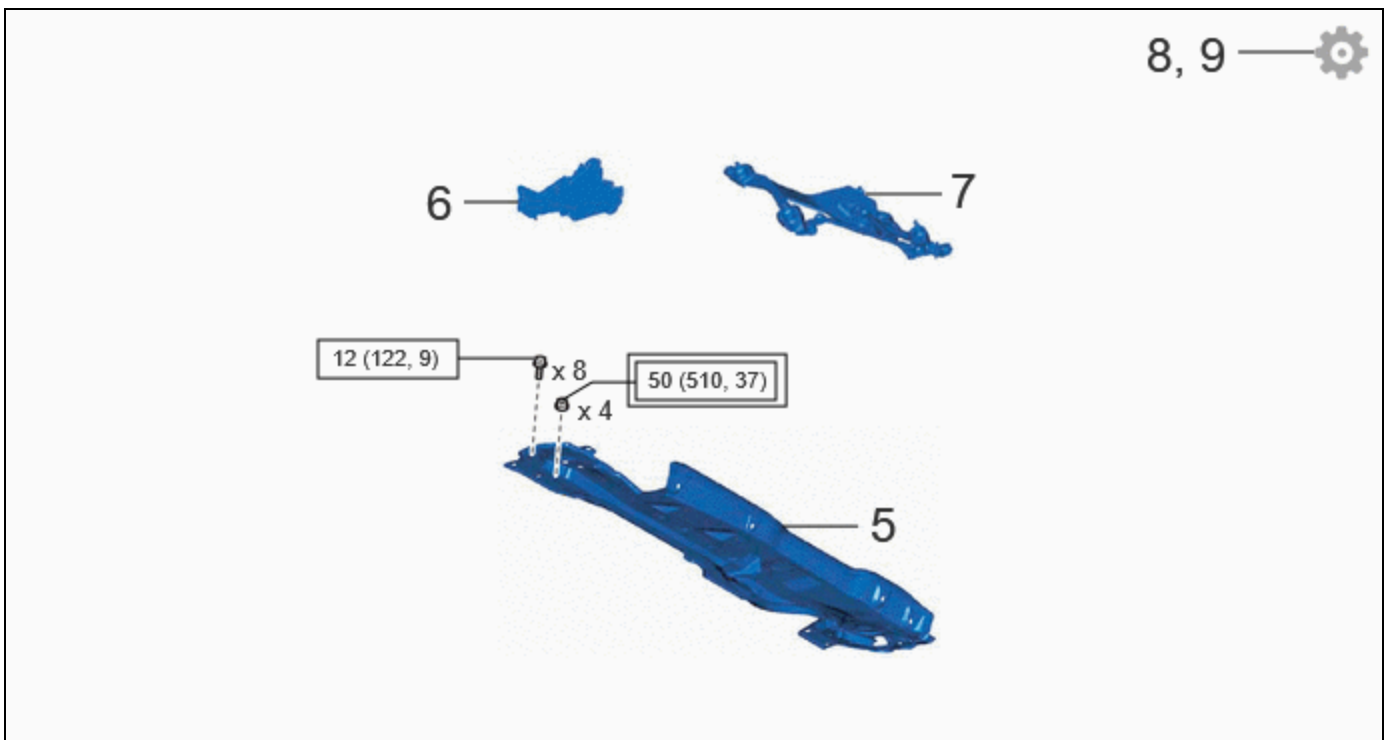
COMPONENTS (INSTALLATION)








PROCEDURE		PART NAME CODE			
1	AIR FUEL RATIO SENSOR	89467B	INFO	-	-

	PROCEDURE	PART NAME CODE			
2	WIRE HARNESS CLAMP BRACKET	-	INFO	-	-
3	DASH PANEL HEAT INSULATOR	55225C	-	-	-
4	NO. 1 ENGINE UNDER COVER ASSEMBLY	51410	-	-	-

*A	for HEV Model	*B	for PHEV Model
	N*m (kgf*cm, ft.*lbf): Specified torque	*	For use with SST

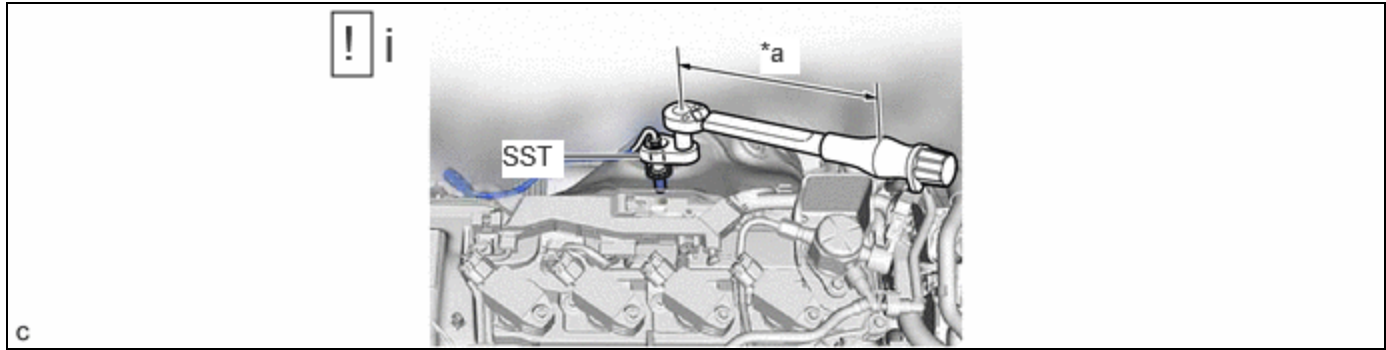


	PROCEDURE	PART NAME CODE			
5	OUTER COWL TOP PANEL SUB-ASSEMBLY	55701J	-	-	-
6	WATER GUARD PLATE	55734D	-	-	-
7	WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY	-	-	-	-
8	INSPECT FOR EXHAUST GAS LEAK	-	-	-	INFO
9	PERFORM INITIALIZATION	-	-	-	INFO

	Tightening torque for "Major areas involving basic vehicle performance such as moving/turning/stopping": N*m (kgf*cm, ft.*lbf)		N*m (kgf*cm, ft.*lbf): Specified torque
---	--	---	---

PROCEDURE

1. INSTALL AIR FUEL RATIO SENSOR



*a	Torque Wrench Fulcrum Length	-	-
----	------------------------------	---	---

(1) Using SST, install the air fuel ratio sensor to the exhaust manifold.

SST: 09224-00012

Torque:

Specified tightening torque :

44 N·m {449 kgf·cm, 32 ft·lbf}

NOTICE:

If the air fuel ratio sensor has been struck or dropped, replace it.

HINT:

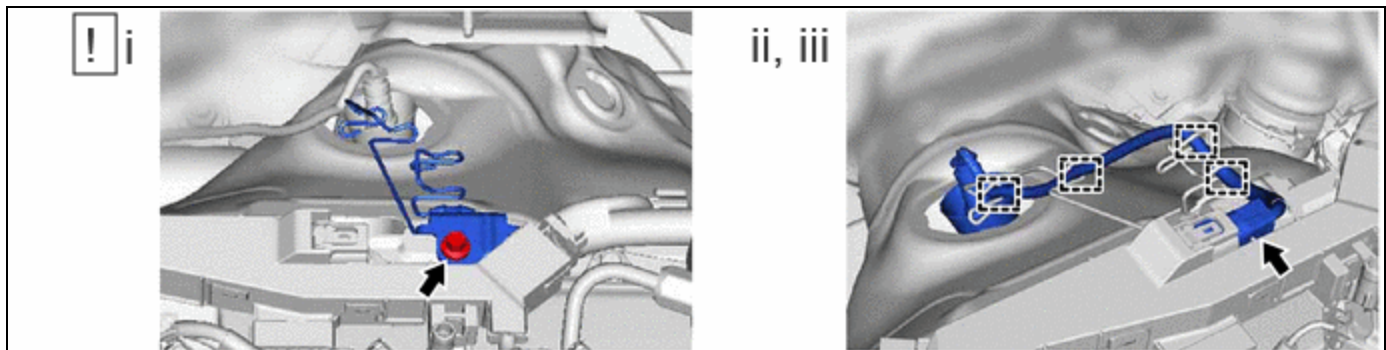
- Calculate the torque wrench reading when changing the fulcrum length of the torque wrench.

Click here [INFO](#)

- When using SST (fulcrum length of 30 mm (1.18 in.)) + torque wrench (fulcrum length of 180 mm (7.09 in.)):

37.7 N*m (384 kgf*cm, 28 ft.*lbf)

2. INSTALL WIRE HARNESS CLAMP BRACKET



(1) Using an 8 mm socket wrench, install the wire harness clamp bracket to the camshaft housing sub-assembly with the bolt.

Torque:

10 N·m {102 kgf·cm, 7 ft·lbf}

- (2) Engage the 4 wire harness clamps.
- (3) Connect the air fuel ratio sensor connector.

3. INSTALL DASH PANEL HEAT INSULATOR

Click here [INFO](#)

4. INSTALL NO. 1 ENGINE UNDER COVER ASSEMBLY

Click here [INFO](#)

5. INSTALL OUTER COWL TOP PANEL SUB-ASSEMBLY

Click here [INFO](#)

6. INSTALL WATER GUARD PLATE

7. INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY

Click here [INFO](#)

8. INSPECT FOR EXHAUST GAS LEAK

Click here [INFO](#)

9. PERFORM INITIALIZATION

- (a) Perform "Inspection After Repair" after replacing the air fuel ratio sensor.

Click here [INFO](#)

