

Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM100000002A06V
Model Year Start: 2023	Model: Prius	Prod Date Range: [12/2022 -]
Title: PA10/PB10/PB12 (HYBRID TRANSMISSION / TRANSAXLE): PA10 HYBRID VEHICLE TRANSAXLE: INSTALLATION; 2023 - 2024 MY Prius [12/2022 -]		

INSTALLATION

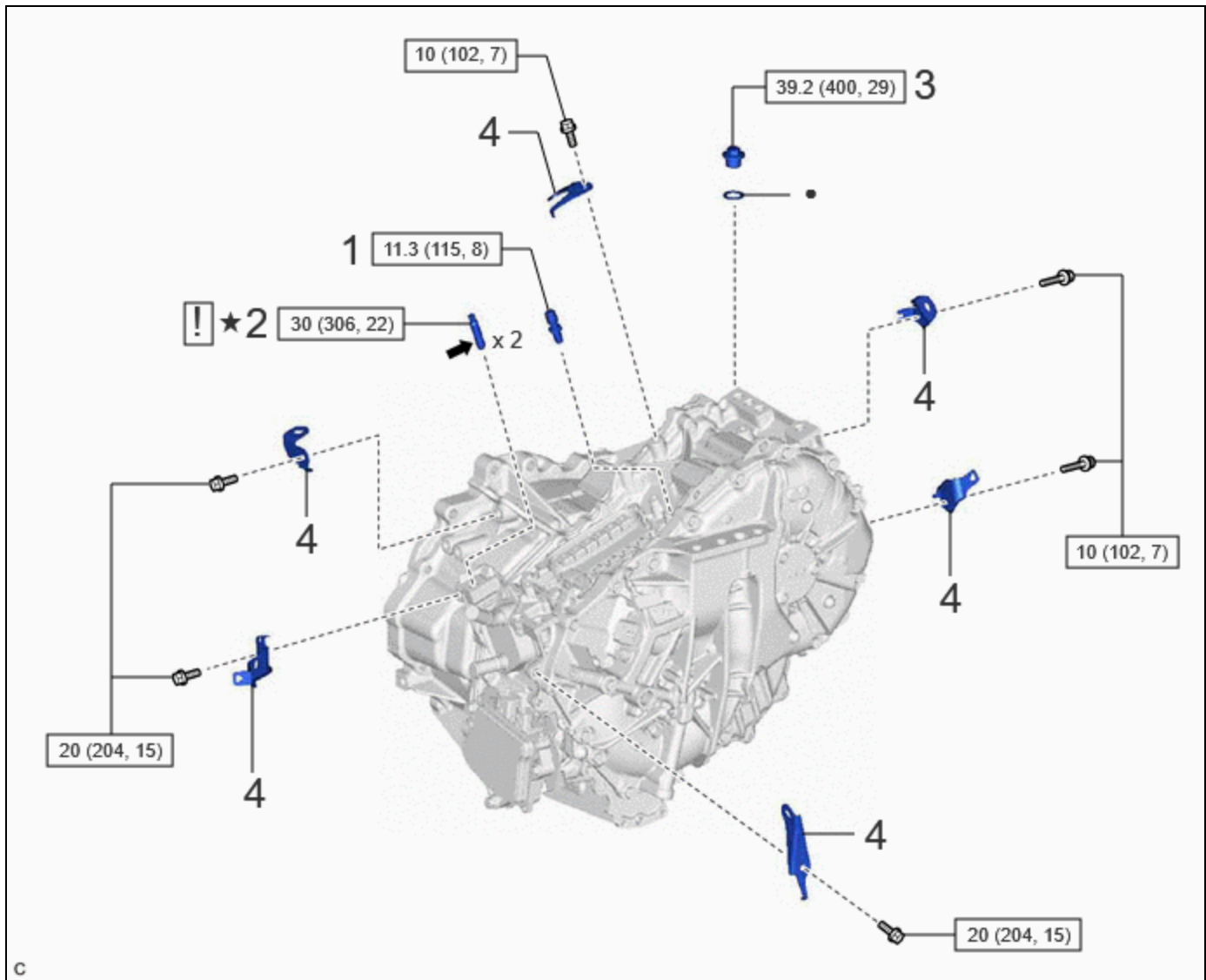
CAUTION / NOTICE / HINT





CAUTION:



The engine assembly with hybrid vehicle transaxle assembly is very heavy. Be sure to follow the procedure described in the repair manual, or the engine lifter may suddenly drop.

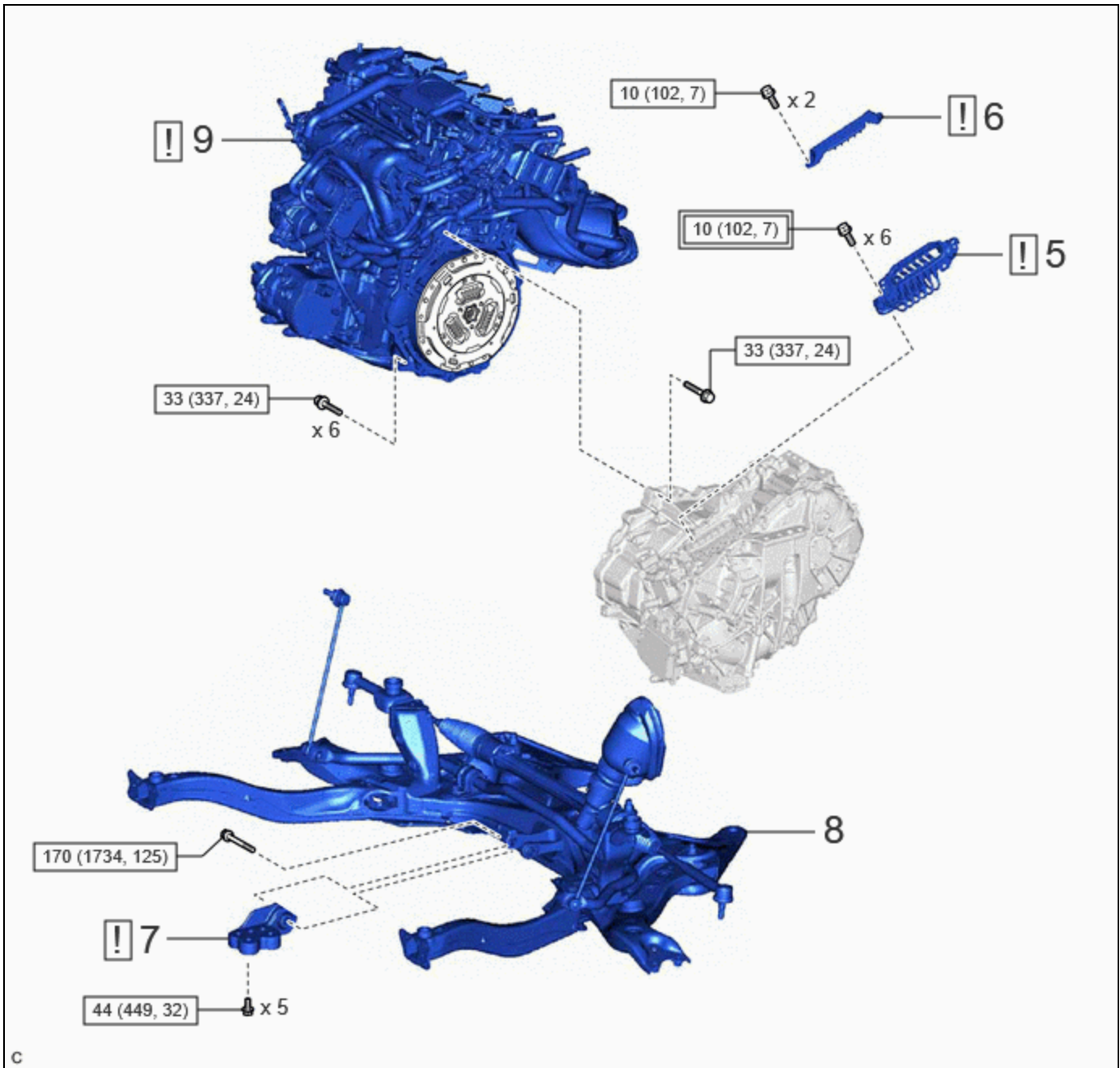
CAUTION / NOTICE / HINT

COMPONENTS (INSTALLATION)








	PROCEDURE	PART NAME CODE			
1	TRANSAXLE BREATHER PLUG	30900N	-	-	-
2	STUD BOLT	-		-	-
3	TRANSAXLE HOUSING PLUG	-	-	-	-
4	WIRE HARNESS CLAMP BRACKET	-	-	-	-

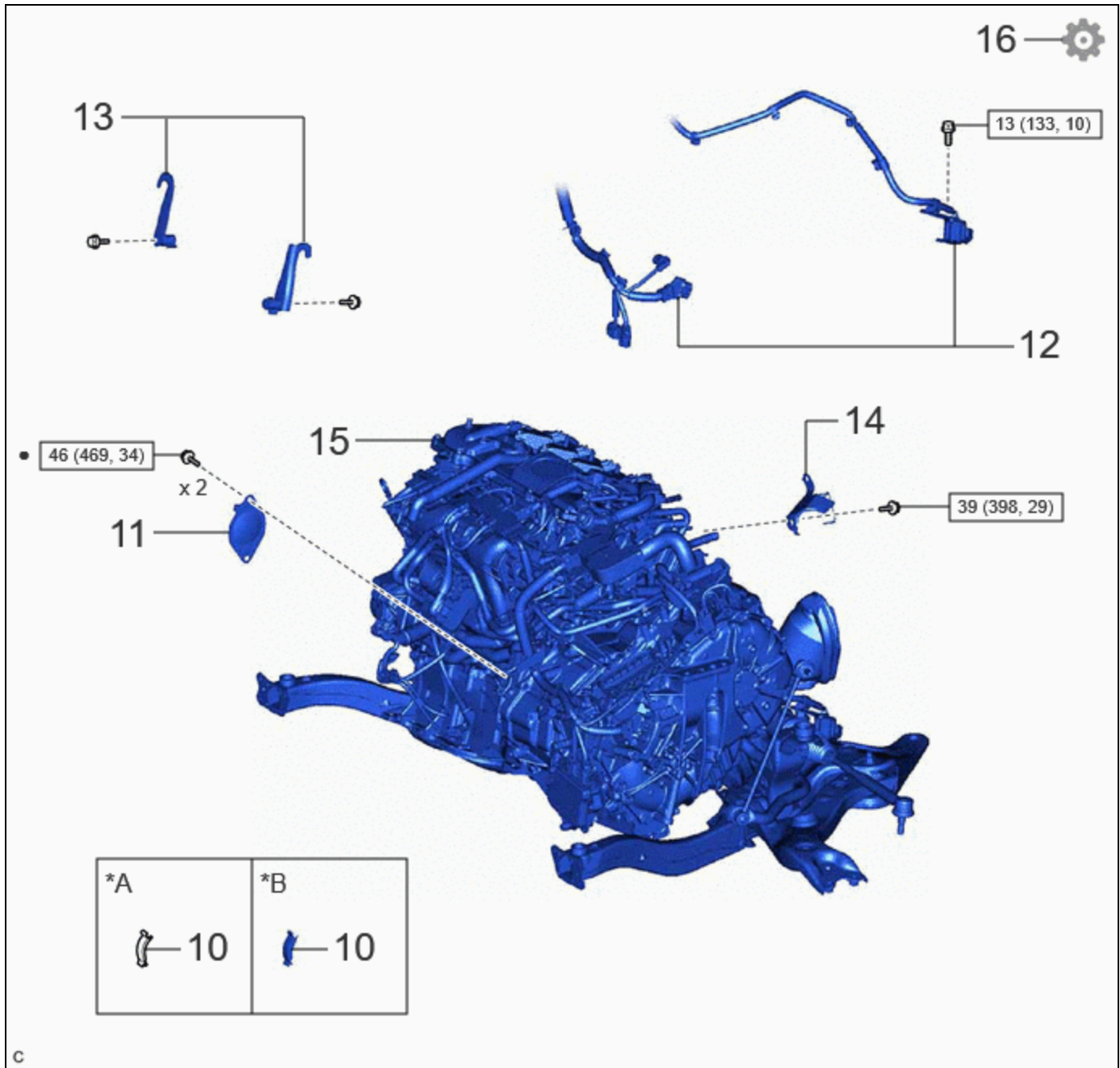
	N*m (kgf*cm, ft.*lbf): Specified torque	• Non-reusable part
	Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent	★ Precoated part










C



PROCEDURE		PART NAME CODE			
5	MOTOR CABLE	G1148	INFO	-	-
6	TERMINAL CAP	82823M	INFO	-	-
7	NO. 2 ENGINE MOVING CONTROL ROD	12364B	INFO	-	-
8	FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY	51201	-	-	-
9	ENGINE ASSEMBLY	-	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		PART NAME CODE			
10	FLYWHEEL HOUSING SIDE COVER	11363A	-	-	-
11	STARTER HOLE INSULATOR	28193	-	-	-
12	ENGINE WIRE	82121	-	-	-
13	ENGINE HANGERS	-	-	-	-

PROCEDURE		PART NAME CODE			
14	WIRE HARNESS CLAMP BRACKET	-	-	-	-
15	ENGINE ASSEMBLY WITH TRANSAXLE	-	-	-	-
16	PERFORM RESOLVER LEARNING	-	-	-	

*A	Type A	*B	Type B
	N*m (kgf*cm, ft.*lbf): Specified torque		Non-reusable part

PROCEDURE

1. INSTALL TRANSAXLE BREATHER PLUG

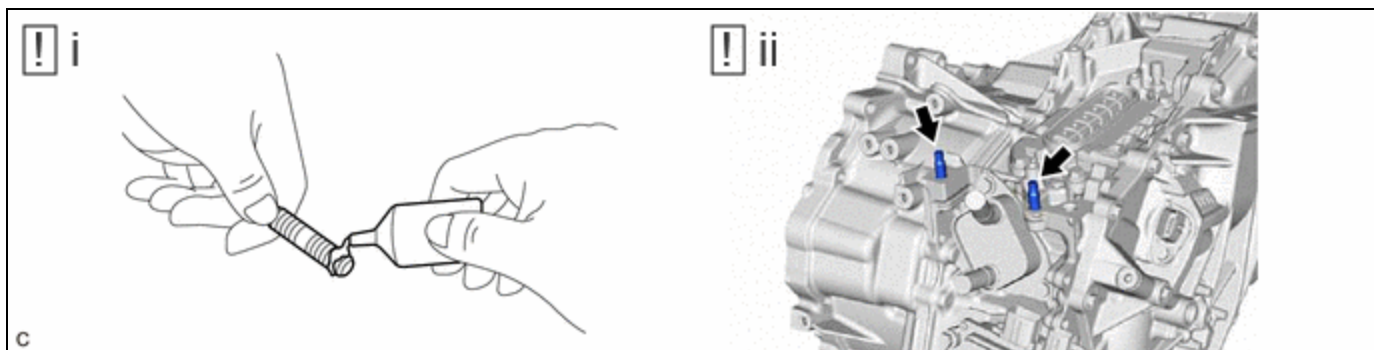
HINT:

Perform this procedure only when replacement of the transaxle breather plug is necessary.

Torque:

11.3 N·m {115 kgf·cm, 8 ft·lbf}

2. INSTALL STUD BOLT



(1) Apply adhesive to the 2 stud bolts.

Adhesive:

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

NOTICE:

Make sure to install the 2 stud bolts immediately after applying adhesive to prevent foreign matter from attaching to them.

(2) Using an E10 "TORX" socket wrench, install the 2 stud bolts to the hybrid vehicle transaxle assembly.

Torque:

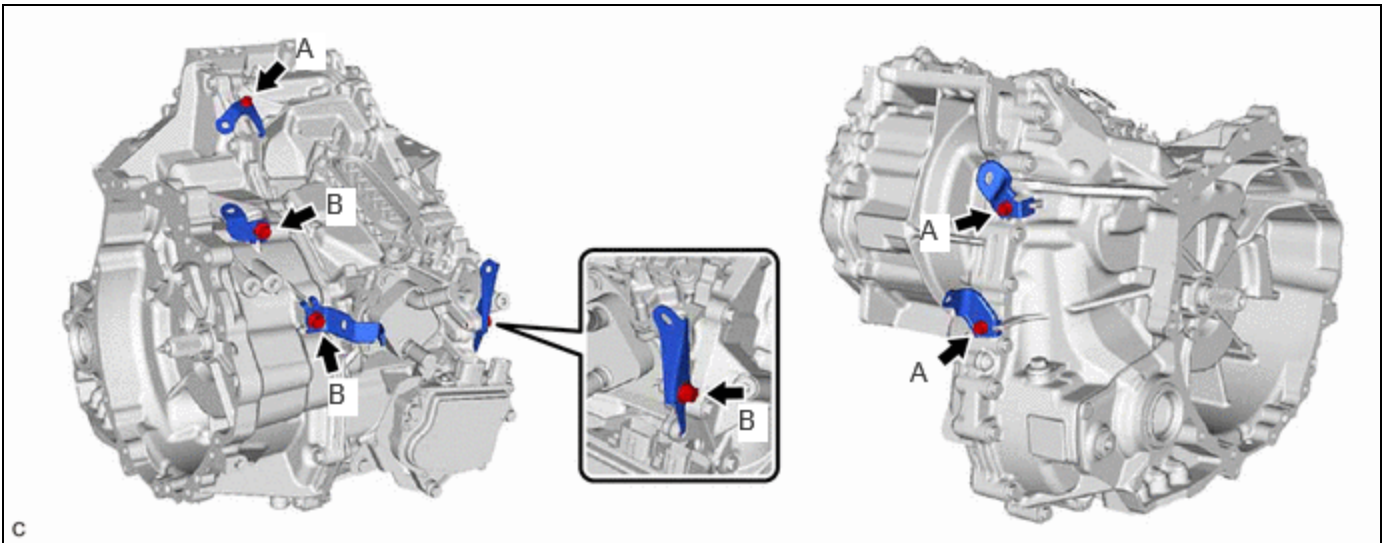
30 N·m {306 kgf·cm, 22 ft·lbf}

3. INSTALL TRANSAXLE HOUSING PLUG

Torque:

39.2 N·m {400 kgf·cm, 29 ft·lbf}

4. INSTALL WIRE HARNESS CLAMP BRACKET



Torque:

Bolt (A) :

10 N·m {102 kgf·cm, 7 ft·lbf}

Bolt (B) :

20 N·m {204 kgf·cm, 15 ft·lbf}

BOLT	BOLT LENGTH
(A)	16 mm (0.630 in.)
(B)	20 mm (0.787 in.)

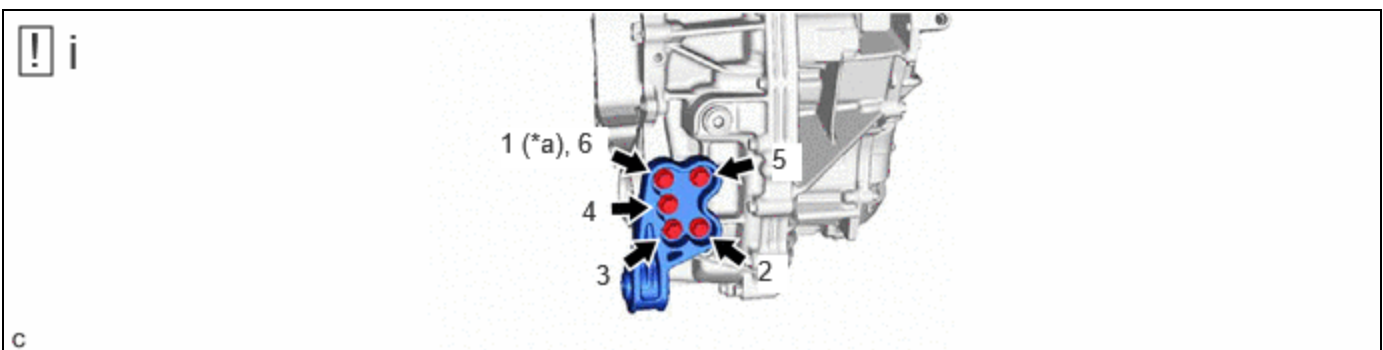
5. INSTALL MOTOR CABLE

	Click here INFO
--	---------------------------------

6. INSTALL TERMINAL CAP

	Click here INFO
--	---------------------------------

7. INSTALL NO. 2 ENGINE MOVING CONTROL ROD



*a	Temporarily Tighten	-	-
----	---------------------	---	---

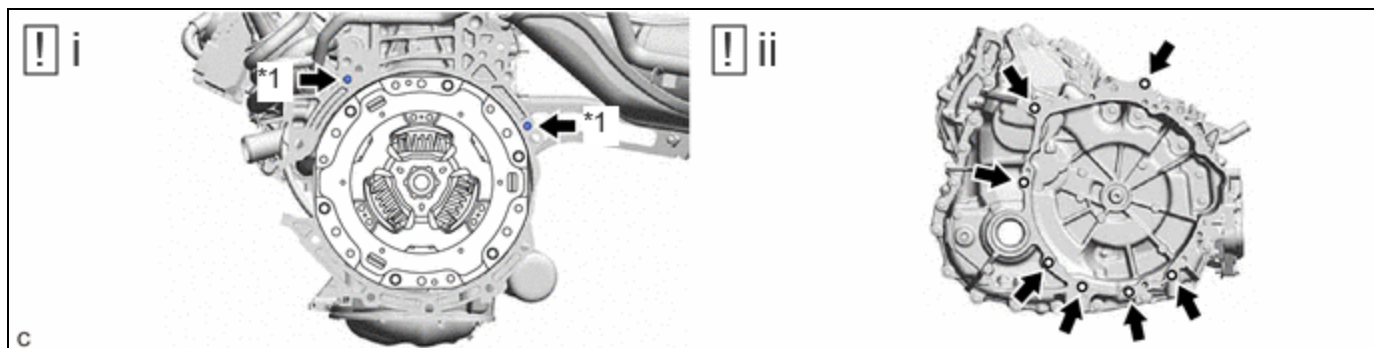
- (1) Install the No. 2 engine moving control rod to the hybrid vehicle transaxle assembly with the 5 bolts in the order shown in the illustration.

Torque:

44 N·m {449 kgf·cm, 32 ft·lbf}

8. INSTALL FRONT SUSPENSION CROSSMEMBER SUB-ASSEMBLY**Torque:**

170 N·m {1734 kgf·cm, 125 ft·lbf}

9. INSTALL ENGINE ASSEMBLY

*1	Knock Pin	-	-
----	-----------	---	---

- (1) Make sure that the knock pins are installed to the engine assembly.
 (2) Install the engine assembly to the hybrid vehicle transaxle assembly with the 7 bolts.

Torque:

33 N·m {337 kgf·cm, 24 ft·lbf}

NOTICE:

- When tightening the bolts, be sure that the contact surfaces of the engine assembly and hybrid vehicle transaxle assembly are in close contact with one another.
- Do not apply grease to the inner splines of the transmission input damper assembly or input shaft assembly.
- Make sure that the wire harness or similar items are not pinched between the contact surfaces.
- Do not use excessive force when installing the engine assembly.
- Make sure to align the hybrid vehicle transaxle assembly so that the input shaft assembly of the hybrid vehicle transaxle assembly will be inserted straight into the inner splines of the transmission input damper assembly.
- When inserting the input shaft assembly of the hybrid vehicle transaxle assembly into the inner splines of the transmission input damper assembly, do not shake the engine assembly excessively.
- When installing the engine assembly to the hybrid vehicle transaxle assembly, make sure to securely fit the knock pins into the knock pin holes.

10. INSTALL FLYWHEEL HOUSING SIDE COVER**11. INSTALL STARTER HOLE INSULATOR****Torque:**

46 N·m {469 kgf·cm, 34 ft·lbf}

12. CONNECT ENGINE WIRE**Torque:**

13 N·m {133 kgf·cm, 10 ft·lbf}

13. REMOVE ENGINE HANGERS**14. INSTALL WIRE HARNESS CLAMP BRACKET**

Click here [INFO](#)

15. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

Click here [INFO](#)

16. PERFORM RESOLVER LEARNING

	<p>NOTICE:</p> <p>If the hybrid vehicle transaxle assembly has been replaced, make sure to perform resolver learning.</p> <p>Click here INFO</p>
-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------

