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-
- SST**
- ⑧
- 152—160 {15.5—16.3, 113—118} **R**
- SST R**
- ⑦
- SST R**
- ⑥
- 25—33 {2.6—3.3, 19—24}
- DUAL-MASS FLYWHEELSIDE**
- CLUTCH COVER SIDE**
- GREASE**
- (MOLYBDENUM GREASE)
- ④
- ③
- ②
- ⑤
- 31—46 {3.2—4.6, 23—33}
- ①
- N·m {kgf·m, ft·lbf}

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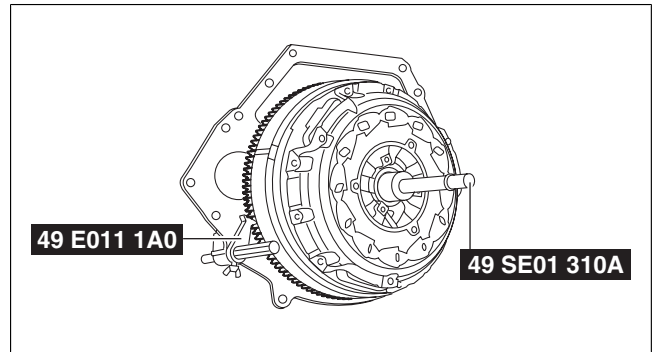
7	Clutch disc (See Clutch Cover and Clutch Disc Removal Note.) (See Clutch Disc Installation Note.)
8	Dual-mass flywheel (See Dual-mass Flywheel Removal Note.) (See Dual-mass Flywheel Installation Note.)

Clutch Cover and Clutch Disc Removal Note

Caution

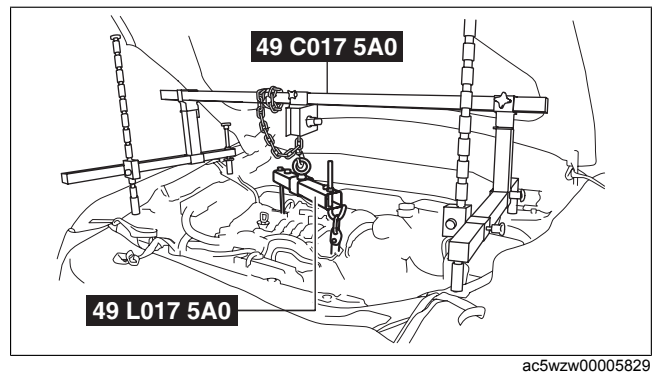
- The removed clutch cover and clutch disc for the D66M(X)-R cannot be reused. If the clutch cover and clutch disc are removed, replace the clutch cover and clutch disc as a single unit with a new part.

1. Install the SSTs (49 E011 1A0, 49 SE01 310A).
2. Loosen each bolt one turn at a time in a crisscross pattern until spring tension is released.
3. Remove the clutch cover and clutch disc.



Dual-mass Flywheel Removal Note

1. Verify that the SSTs (49 C017 5A0, 49 L017 5A0) support the engine securely.



2. Support the engine using a garage jack.

Caution

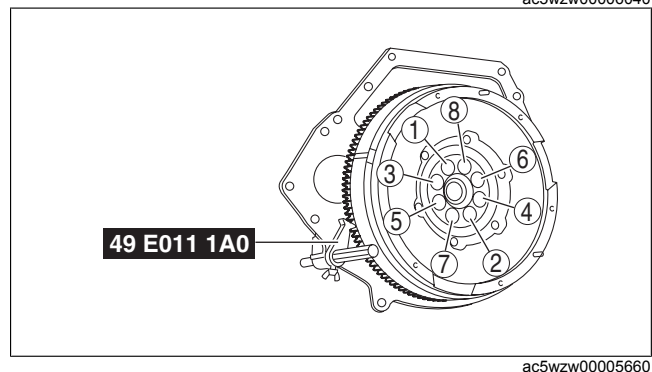
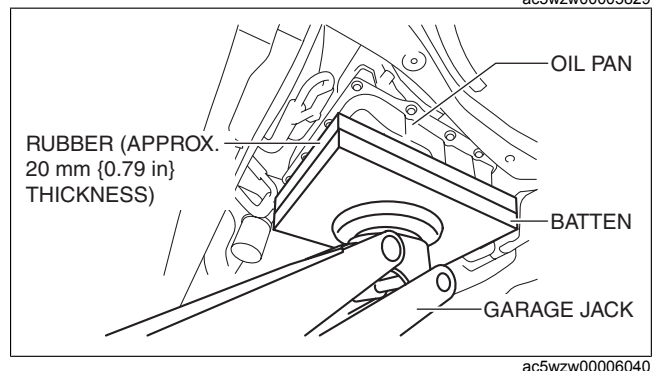
- When supporting the engine, place rubber of appropriate size (approx. 20 mm {0.79 in} thickness) on a batten between the garage jack and the oil pan to prevent the deformation of the oil pan.

3. Lock the dual-mass flywheel against rotation using the SST (49 E011 1A0).

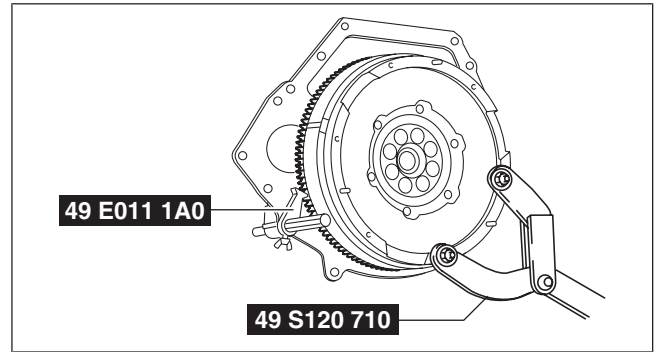
4. Loosen the lock bolts uniformly and gradually in the order shown in the figure, and remove them.

Note

- If the lock bolt installation holes are not positioned properly, perform the following procedure:



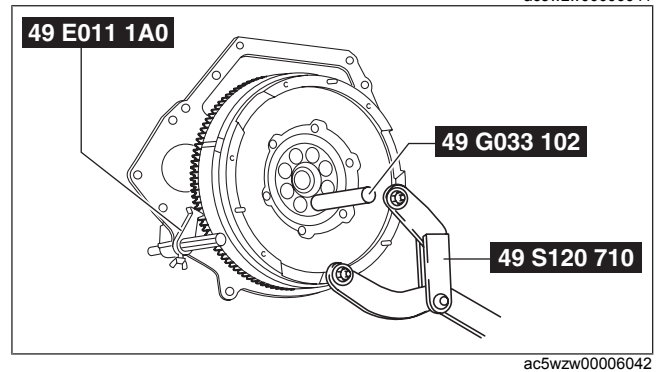
- (1) Install the SST (49 S120 710) to the dual-mass flywheel.
- (2) Rotate the dual-mass flywheel (secondary flywheel side) using the SST (49 S120 710).
- (3) When the lock bolt installation holes are positioned properly, hold the position and remove one of the lock bolts.



- (4) After removing the lock bolt, set up the SST (49 G033 102) to lock the dual-mass flywheel (secondary flywheel side) against rotation.

Warning

- If all of the lock bolts are removed without locking the dual-mass flywheel (secondary flywheel side) against rotation, the dual-mass flywheel (primary or secondary flywheel side) may rotate, resulting in injury. Therefore, always set up the SST (49 G033 102).
- When the lock bolts are removed from the dual-mass flywheel, always cover the bolt holes using tape. If the SST (49 G033 102) is removed while the operator's finger is inserted in the bolt hole, the dual-mass flywheel may rotate and the operator could be injured.



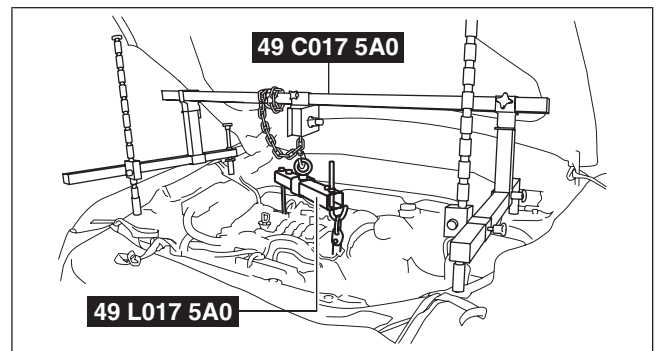
- (5) Remove the remaining lock bolts.
5. Remove the dual-mass flywheel.

Note

- When reusing the dual-mass flywheel, do not remove the SST (49 G033 102) locking the dual-mass flywheel (secondary flywheel side) against rotation.
6. Inspect for oil leakage from the crankshaft rear oil seal.
 - If there is any malfunction, replace the crankshaft rear oil seal. (See REAR OIL SEAL REPLACEMENT [SKYACTIV-D 2.2].)

Dual-mass Flywheel Installation Note

1. Verify that the SSTs (49 C017 5A0, 49 L017 5A0) support the engine securely.

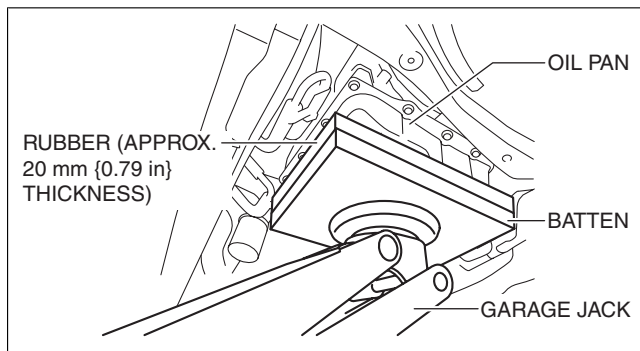


- Support the engine using a garage jack.

Caution

- When supporting the engine, place rubber of appropriate size (approx. 20 mm {0.79 in} thickness) on a batten between the garage jack and the oil pan to prevent the deformation of the oil pan.

- Clean the crankshaft thread holes.
- Install the dual-mass flywheel to the crankshaft.
- Lock the dual-mass flywheel against rotation using the SST (49 E011 1A0).
- Temporarily tighten the new lock bolts.

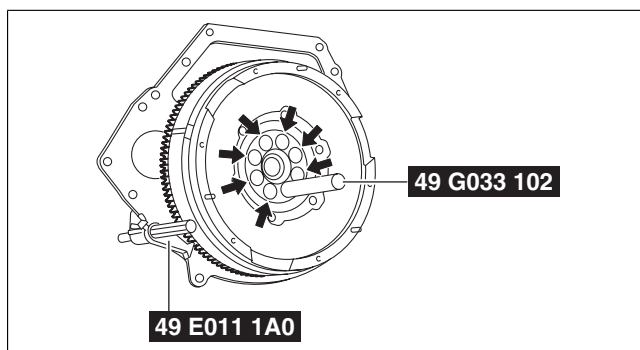


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Note

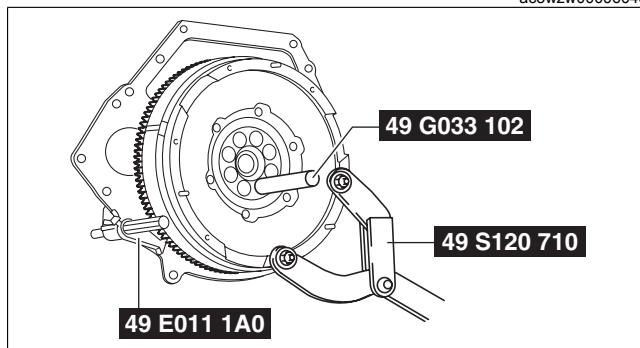
- If the dual-mass flywheel (secondary flywheel side) is not positioned properly, perform the following procedure to install it:

- Temporarily tighten the new lock bolts to the position as shown in the figure.
- Install the SST (49 S120 710) to the dual-mass flywheel.



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- Rotate the dual-mass flywheel (secondary flywheel side) using the SST (49 S120 710), and then temporarily tighten the remaining new lock bolt after removing the SST (49 G033 102).

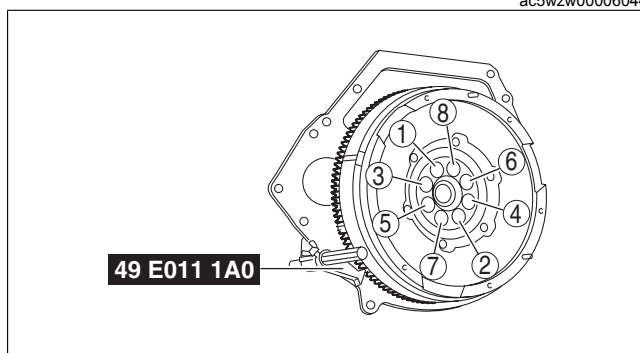


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- Tighten the lock bolts uniformly and gradually in the order shown in the figure.

Tightening torque

152—160 N·m {15.5—16.3 kgf·m, 113—118 ft·lbf}



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Clutch Disc Installation Note

Note

- Because the pilot bearing is not equipped to the SKYACTIV-D and the diameter of the crankshaft end is large, the SST (49 SE01 310A) cannot be secured even though it is inserted into the crankshaft end, and therefore the clutch disc cannot be centered correctly.

- To center the clutch disc correctly using the SST (49 SE01 310A), it is necessary to install the pilot bearing (part number: YF09-11-303) to the crankshaft end before installing the clutch disc.

1. Before installing the clutch disc, verify that the pilot bearing is installed to the crankshaft end.
 - If the pilot bearing is installed, go to Step 3.
 - If the pilot bearing is not installed, obtain the pilot bearing (part number: YF09-11-303) and then go to Step 2.
2. Install a pilot bearing (part number: YF09-11-303) to the specified position using the following tools.

Tool

Snap-on brand millimeter size bushing driver set (A160M) adapter A160M7 (20—22 mm)

- Use the adapter with the 20 mm side of the A160M7 (20—22 mm) facing the pilot bearing side.

Substitution tool

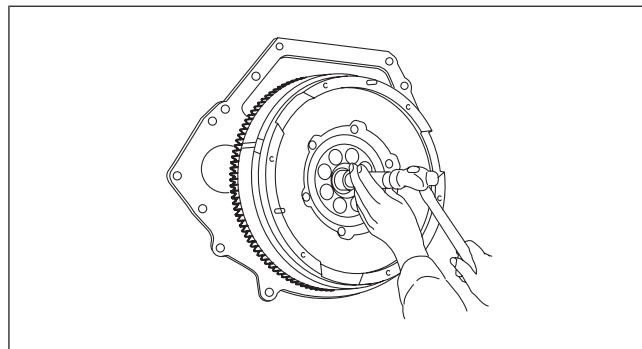
Outer diameter: 21 mm {0.83 in}

Inner diameter: 19 mm {0.75 in}

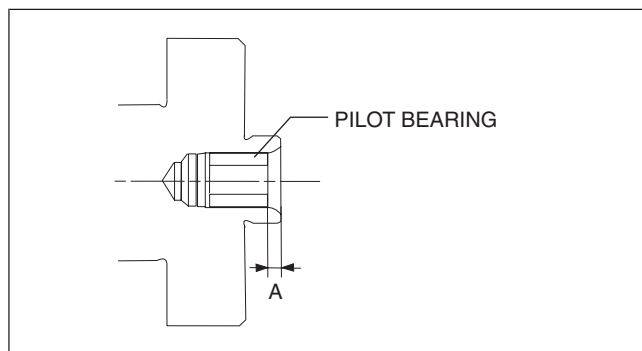
Standard position

Distance A of pilot bearing from crankshaft end: 1.5—2.5 mm {0.060—0.098 in}

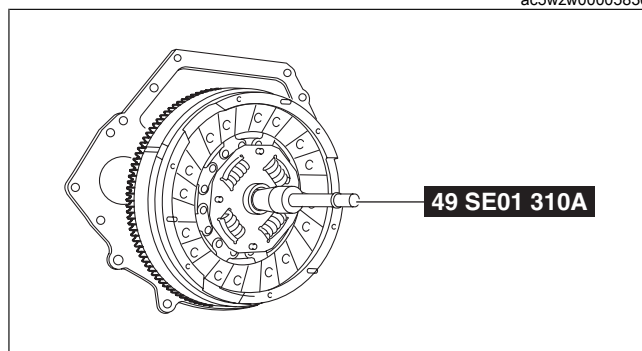
3. Clean the splines of the new clutch disc and the primary shaft with a brush.
4. Spread a thin layer of clutch grease on the splines.
5. Hold the clutch disc position using the SST (49 SE01 310A).



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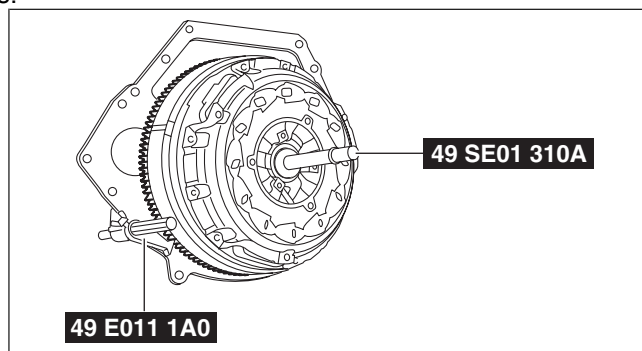
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Clutch Cover Installation Note

1. Install the new clutch cover while aligning the guide pins.
2. Install the SST (49 E011 1A0).

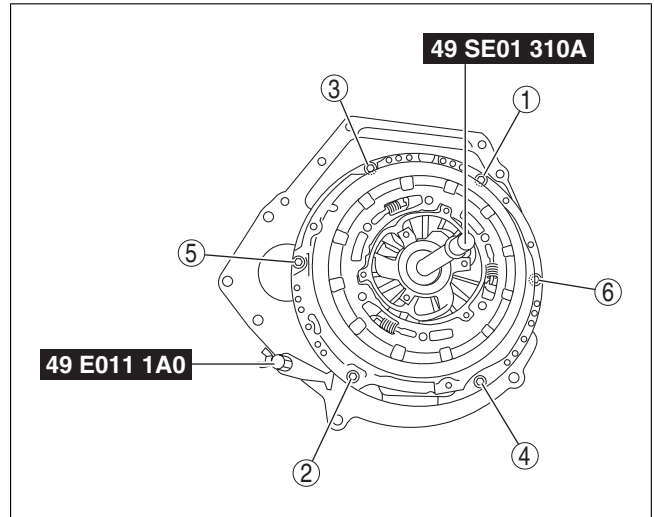


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3. Tighten the bolts in the order shown in the figure.

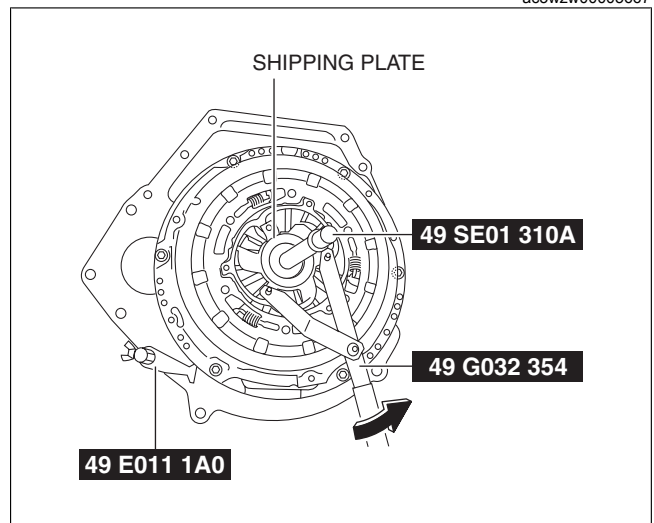
Tightening torque

25—33 N·m {2.6—3.3 kgf·m, 19—24 ft·lbf}



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4. While holding the SST (49 SE01 310A) so that the center position of the clutch disc does not deviate, remove the shipping plate using the SST (49 G032 354).
5. Dispose of the shipping plate after removal.
6. Remove the SSTs (49 SE01 310A, 49 E011 1A0).



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