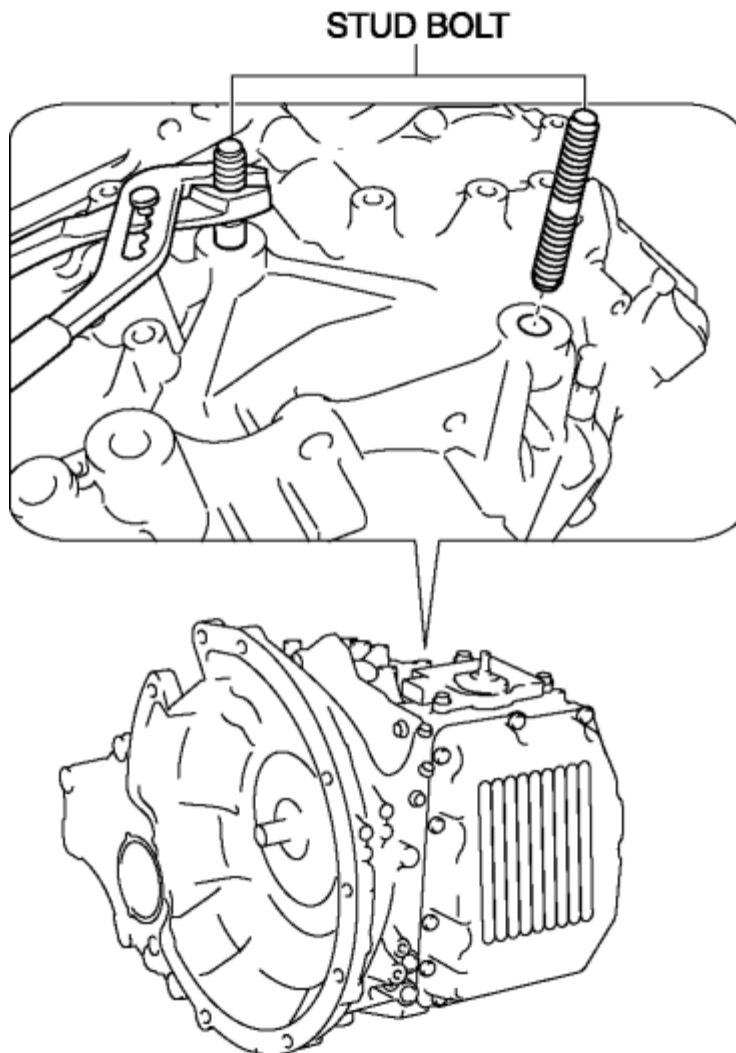


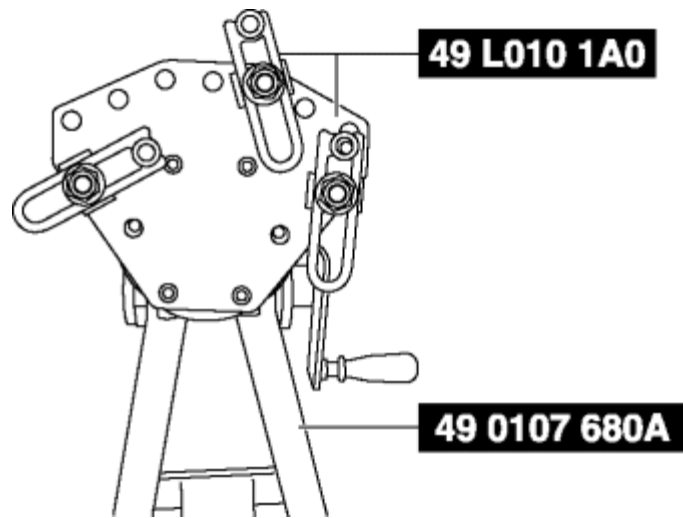
2012 - Mazda6 - Transmission/ Transaxle

CONVERTER HOUSING REMOVAL/ INSTALLATION [AY6A-EL]

1. Drain the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[AY6A-EL\]](#).)
2. Remove the transaxle. (See [AUTOMATIC TRANSAXLE REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)
3. Clean the transaxle. (See [AUTOMATIC TRANSAXLE CLEANING \[AY6A-EL\]](#).)
4. Remove the torque converter. (See [TORQUE CONVERTER REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)
5. Remove the stud bolts.



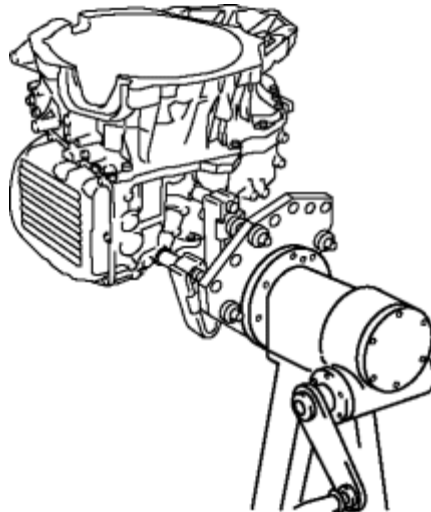
6. Set the **SSTs** as shown in the figure.



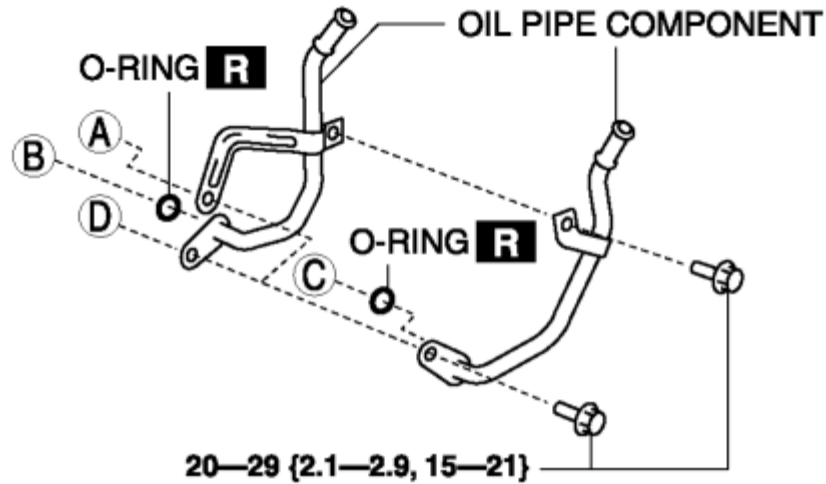
CAUTION:

- When installing the SST to the transaxle, use bolts (M12×1.25) with a thread length of 90 mm {3.5 in}.

7. Install the **SST** to the position where the transaxle stud bolts were removed.



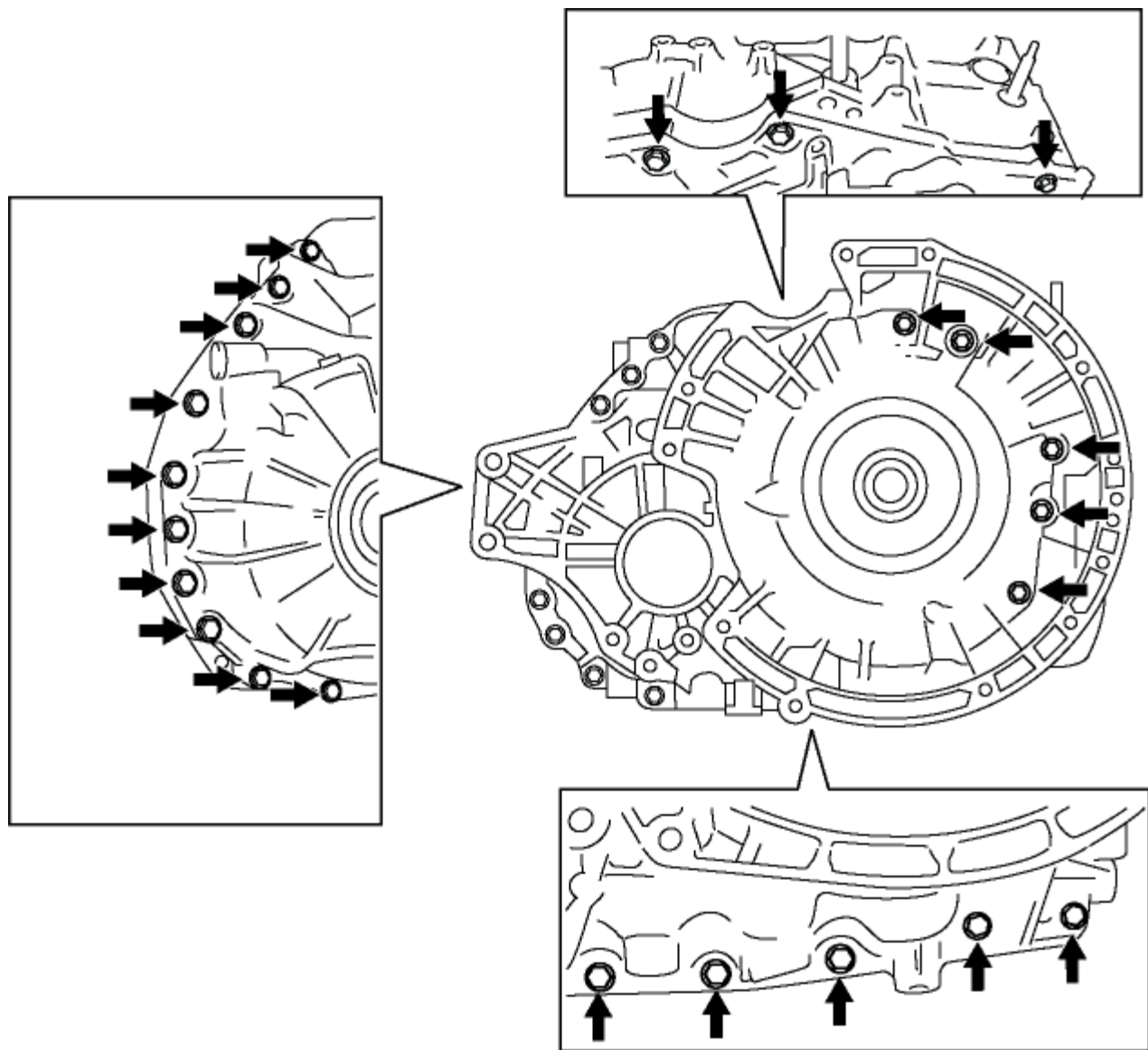
8. Remove the oil pipe component and O-rings.



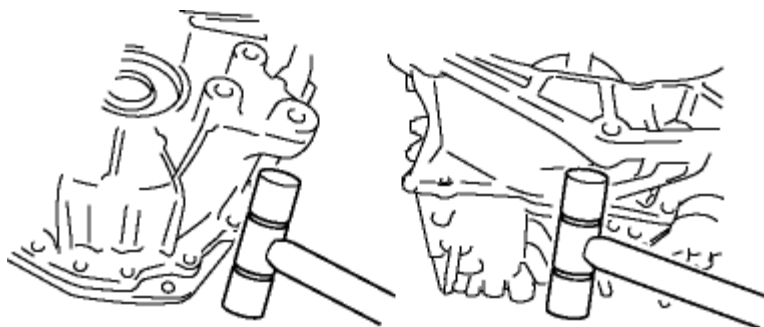
N·m {kgf·m, ft·lbf}

9. Refer to the "Automatic Transaxle Disassembly/assembly Precaution" before disassembling/assembling the transaxle. (See [AUTOMATIC TRANSAXLE DI SASSEMBLY/ ASSEMBLY PRECAUTION \[AY6A-EL\]](#).)

10. Remove the bolts as shown in the figure.



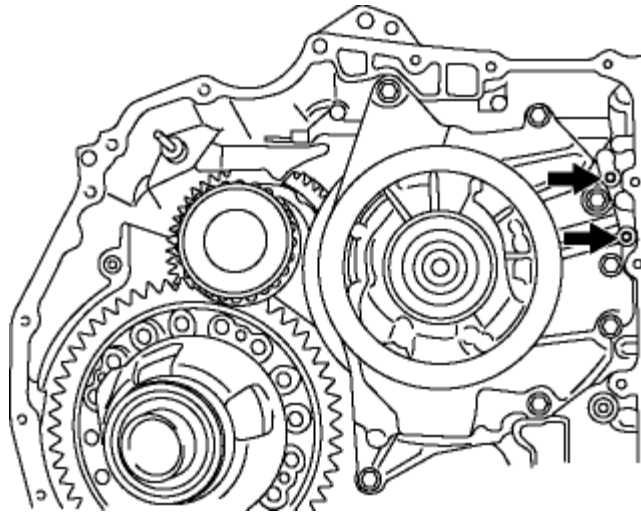
11. Using a plastic hammer, tap the converter housing to remove it.



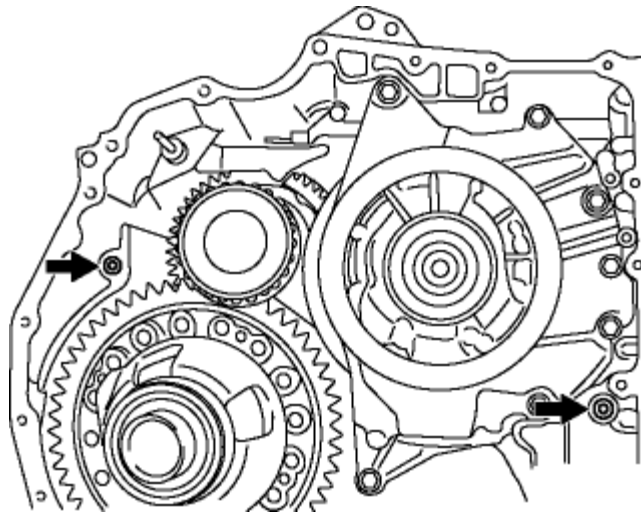
CAUTION:

- Do not damage the fitting surface of the converter housing and the transaxle case.

12. Remove the transaxle case gaskets as shown in the figure.



13. Remove the gaskets as shown in the figure.

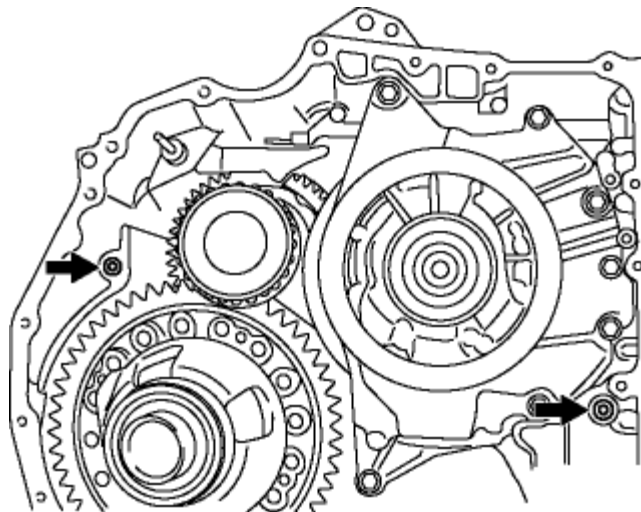


14. Clean the contact surface of the transaxle case and the converter housing and the bolt holes.

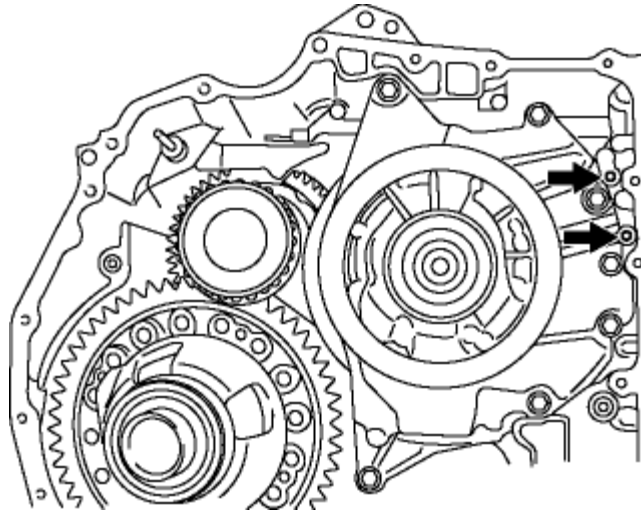
NOTE:

- Completely remove sealant and oil with white gasoline or equivalent.

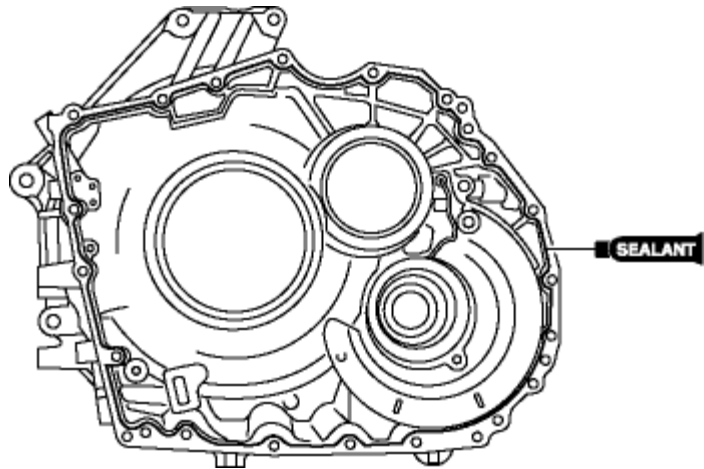
15. Install the gaskets as shown in the figure.



16. Install the transaxle case gaskets as shown in the figure.



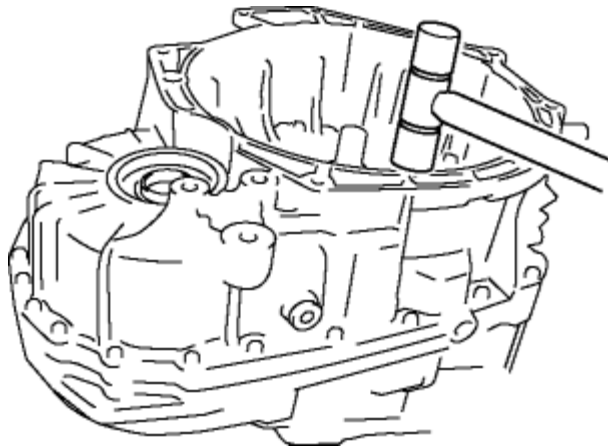
17. Apply sealant to the converter housing as shown in the figure.



NOTE:

- Spread sealant over the contact surface.
- Do not apply sealant to the transaxle case.

18. Install the converter housing before the applied sealant starts to harden.



CAUTION:

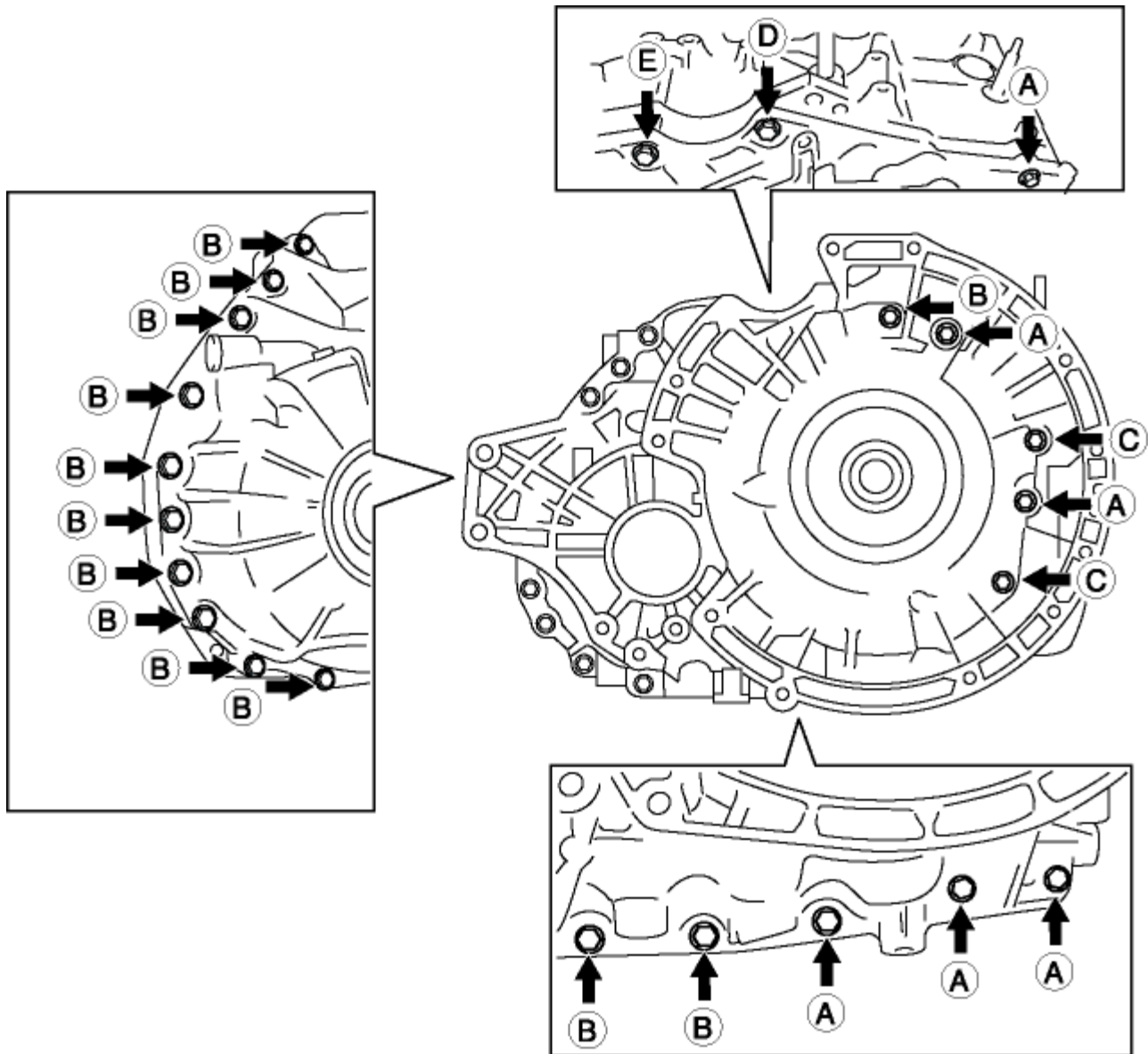
- Do not damage the O-ring on the oil pump component.

- Do not damage the oil seal (differential). (converter housing side)

NOTE:

- Tap all around the contact surface with a plastic hammer during installation.

19. Temporarily tighten the bolts by hand as shown in the figure.



Bolt number	Bolt size	Length (measured from below the head) (mm {in})
A	M8 × 1.25	30 {1.2}
B	M8 × 1.25	35 {1.4}
C	M8 × 1.25	39 {1.5}

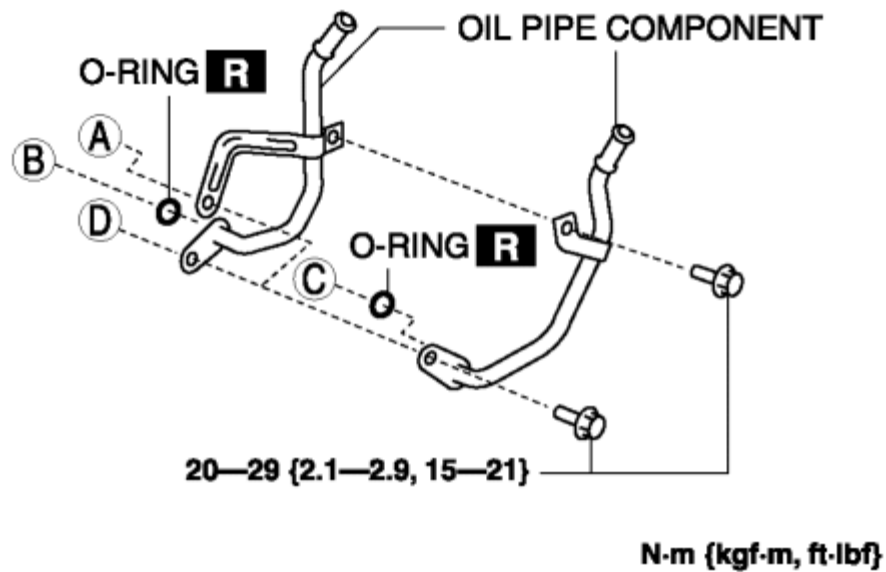
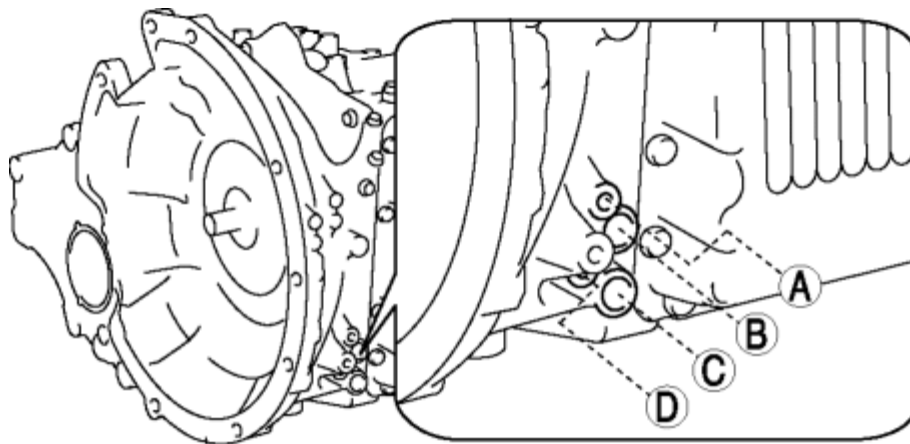
D	M10 × 1.25	28 {1.1}
E	M10 × 1.25	43 {1.7}

20. Tighten the bolts.

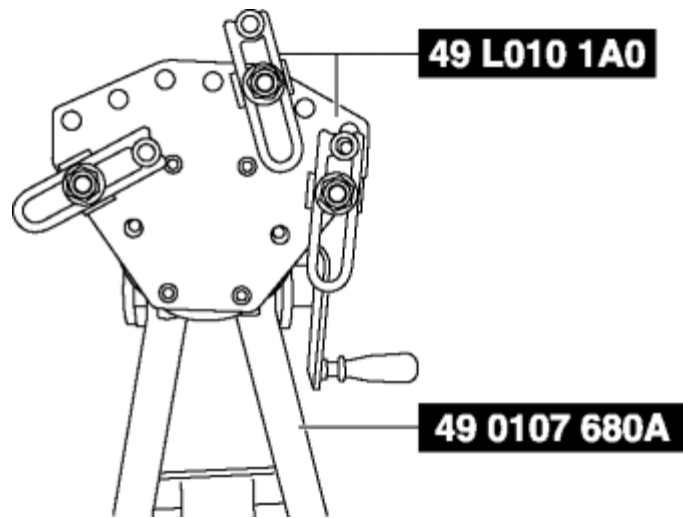
Tightening torque

- A, B, C: 24—35 N·m {2.5—3.5 kgf·m, 18—25 ft·lbf}
- D, E: 30— 41 N·m {3.1— 4.1 kgf·m, 23—30 ft·lbf}

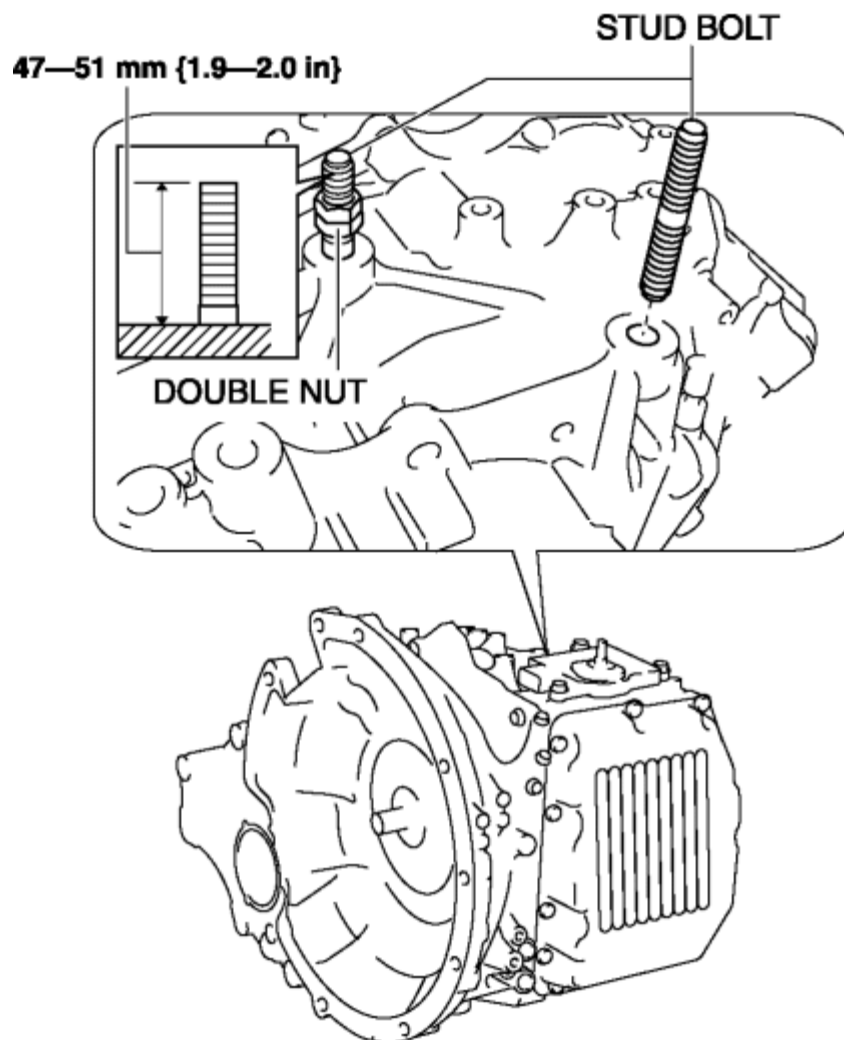
21. Install the oil pipe component and O-rings.



22. Remove the **SSTs**.



23. Install the stud bolts using double nutted.



CAUTION:

- Do not repair the threads using a tap or other tools.
- Do not damage the transaxle case.
- Do not overtighten the stud bolts. (The stud bolts should remain protruded from the end of the transaxle case more than 47 mm {1.9 in}.)

- If any of the stud bolts is overtightened, the transaxle case may be damaged (holes in the case may result).
- If the transaxle case is damaged, the transaxle must be replaced.

24. Remove the double nutted from the stud bolts.

25. Install the torque converter. (See [TORQUE CONVERTER REMOVAL/ INSTALLATION \[AY6A-EL\]](#) .)

26. Install the transaxle. (See [AUTOMATIC TRANSAXLE REMOVAL/ INSTALLATION \[AY6A-EL\]](#) .)

27. Add ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#) .)

28. Adjust the ATF level. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#) .)

29. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[AY6A-EL\]](#) .)

[< Previous](#) [Next >](#)

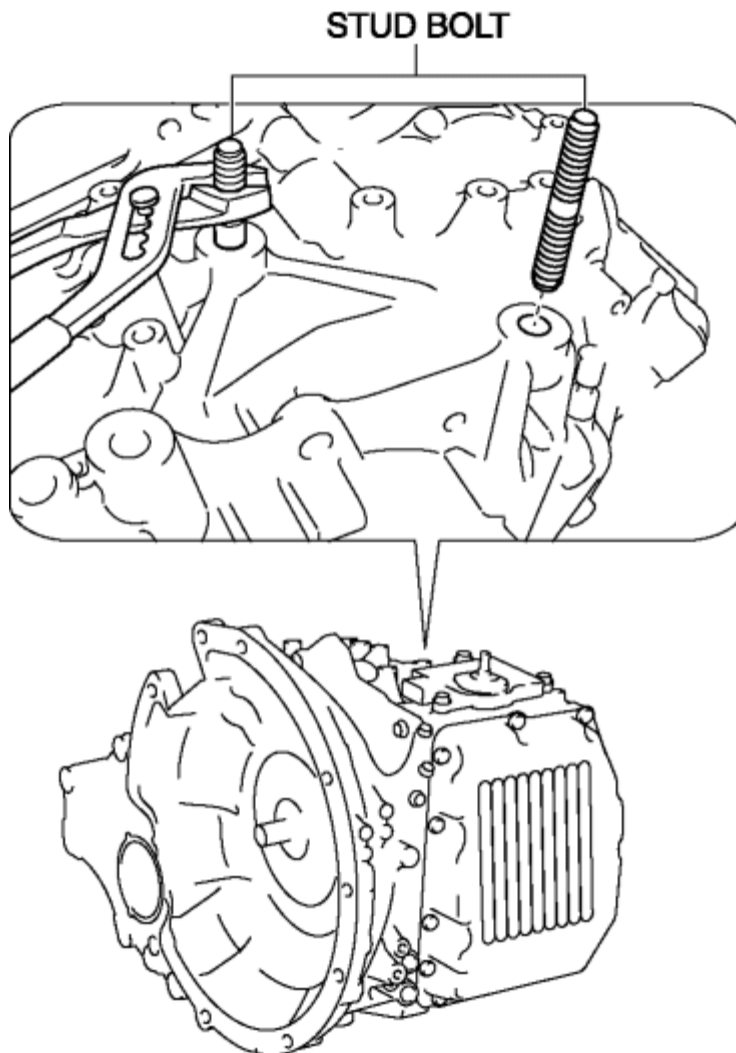
[Back to Top](#)

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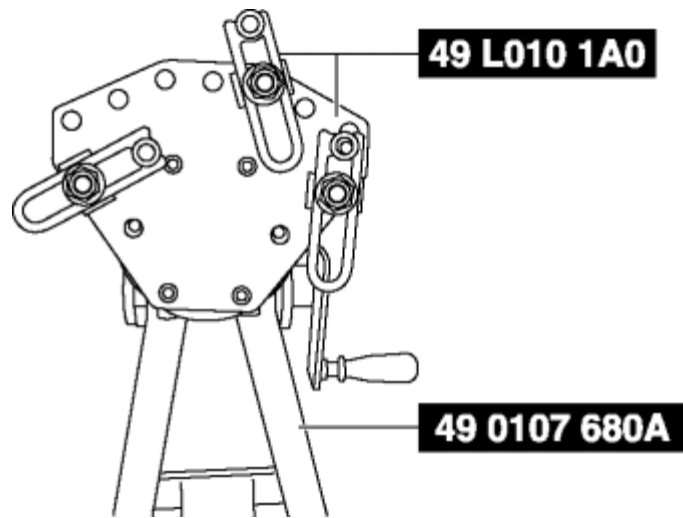
2012 - Mazda6 - Transmission/ Transaxle

CONVERTER HOUSING REMOVAL/ INSTALLATION [AY6A-EL]

1. Drain the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[AY6A-EL\]](#).)
2. Remove the transaxle. (See [AUTOMATIC TRANSAXLE REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)
3. Clean the transaxle. (See [AUTOMATIC TRANSAXLE CLEANING \[AY6A-EL\]](#).)
4. Remove the torque converter. (See [TORQUE CONVERTER REMOVAL/ INSTALLATION \[AY6A-EL\]](#).)
5. Remove the stud bolts.



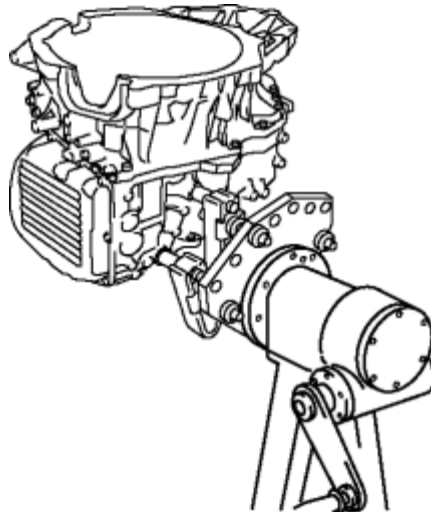
6. Set the **SSTs** as shown in the figure.



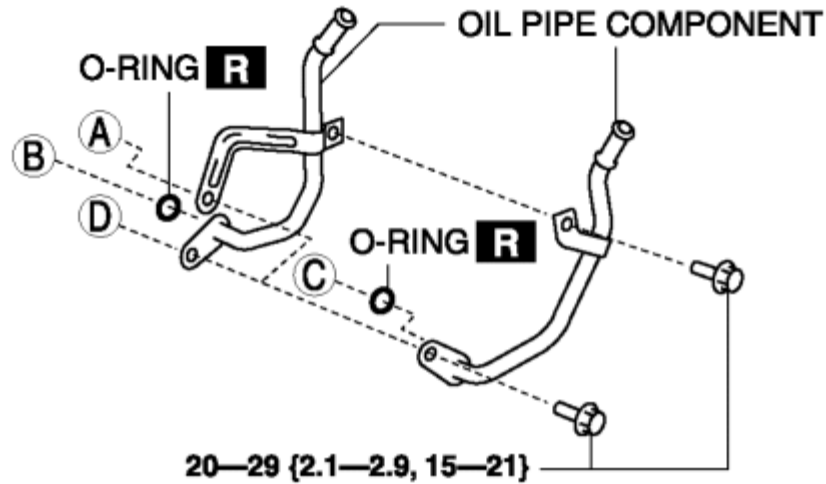
CAUTION:

- When installing the SST to the transaxle, use bolts (M12×1.25) with a thread length of 90 mm {3.5 in}.

7. Install the **SST** to the position where the transaxle stud bolts were removed.



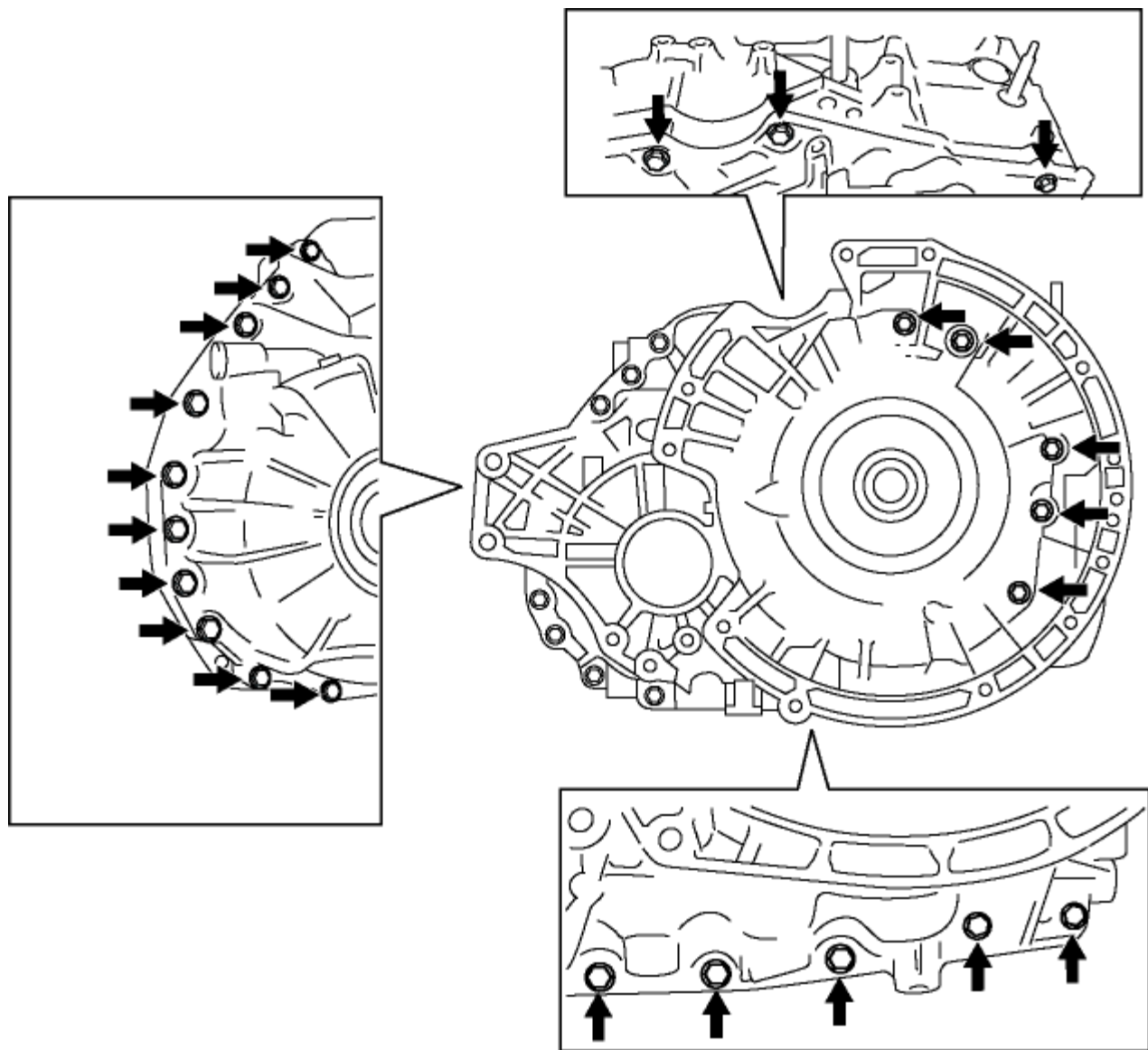
8. Remove the oil pipe component and O-rings.



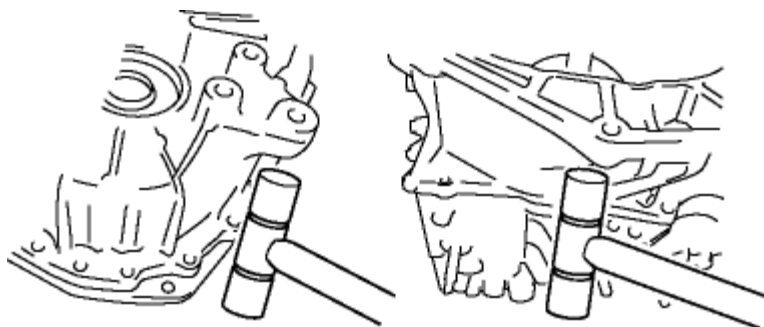
N·m {kgf·m, ft·lbf}

9. Refer to the "Automatic Transaxle Disassembly/assembly Precaution" before disassembling/assembling the transaxle. (See [AUTOMATIC TRANSAXLE DI SASSEMBLY/ ASSEMBLY PRECAUTION \[AY6A-EL\]](#).)

10. Remove the bolts as shown in the figure.



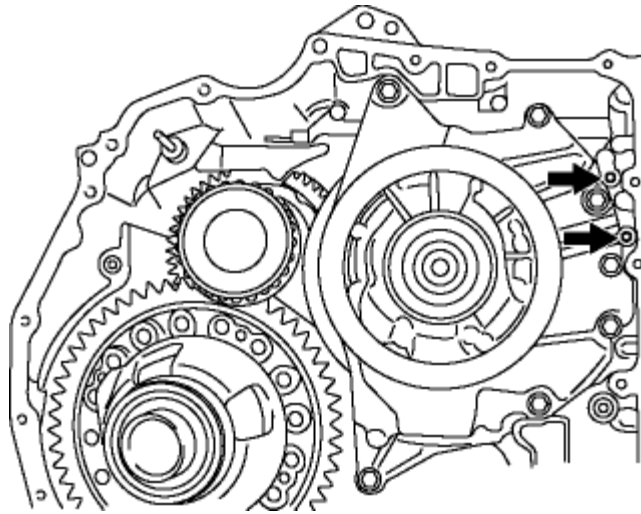
11. Using a plastic hammer, tap the converter housing to remove it.



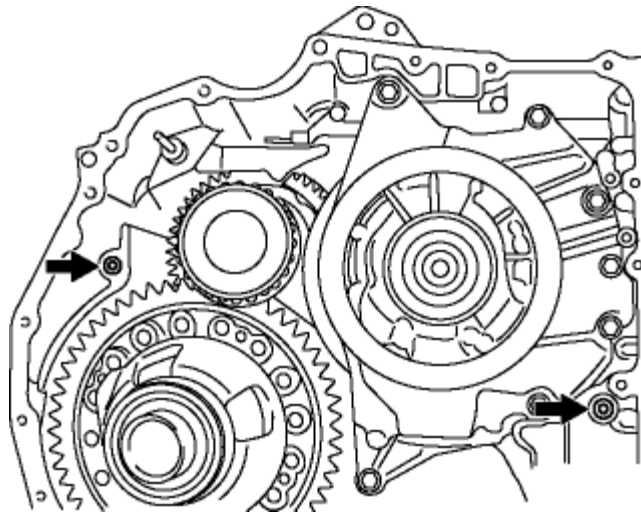
CAUTION:

- Do not damage the fitting surface of the converter housing and the transaxle case.

12. Remove the transaxle case gaskets as shown in the figure.



13. Remove the gaskets as shown in the figure.

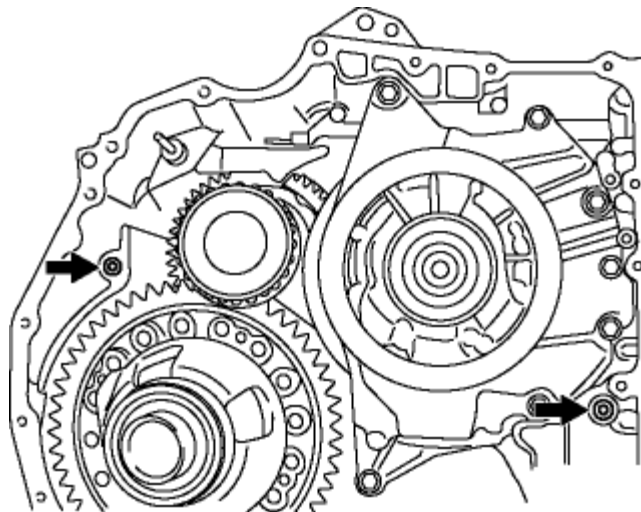


14. Clean the contact surface of the transaxle case and the converter housing and the bolt holes.

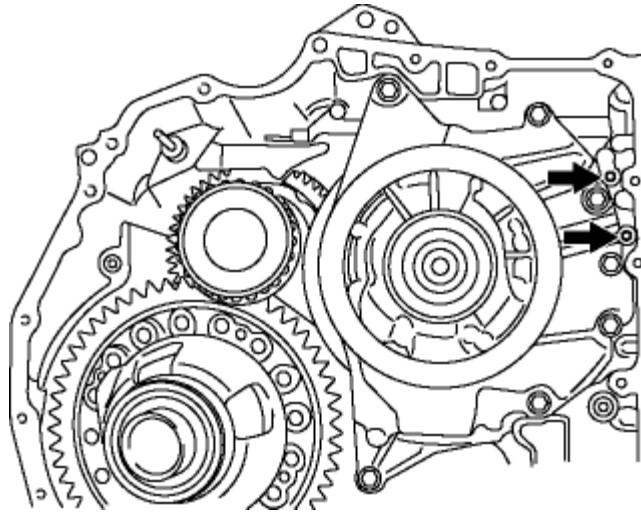
NOTE:

- Completely remove sealant and oil with white gasoline or equivalent.

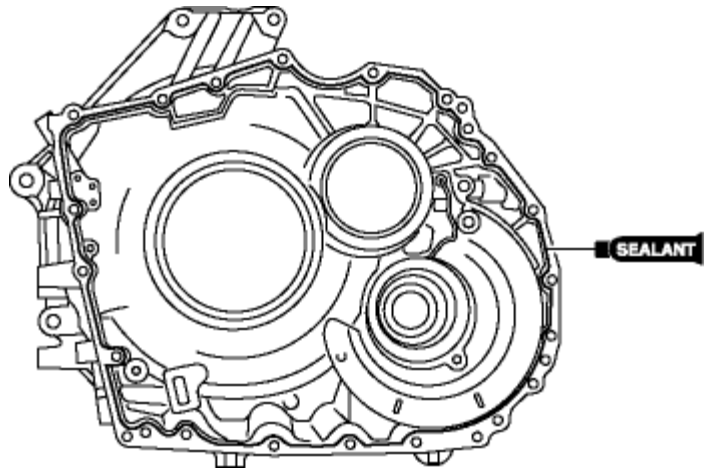
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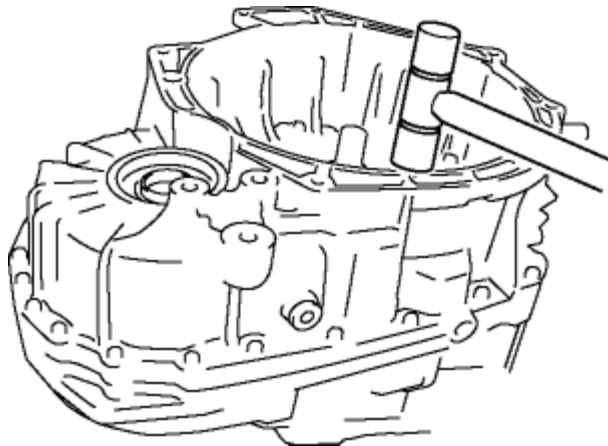
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NOTE:

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18. Install the converter housing before the applied sealant starts to harden.



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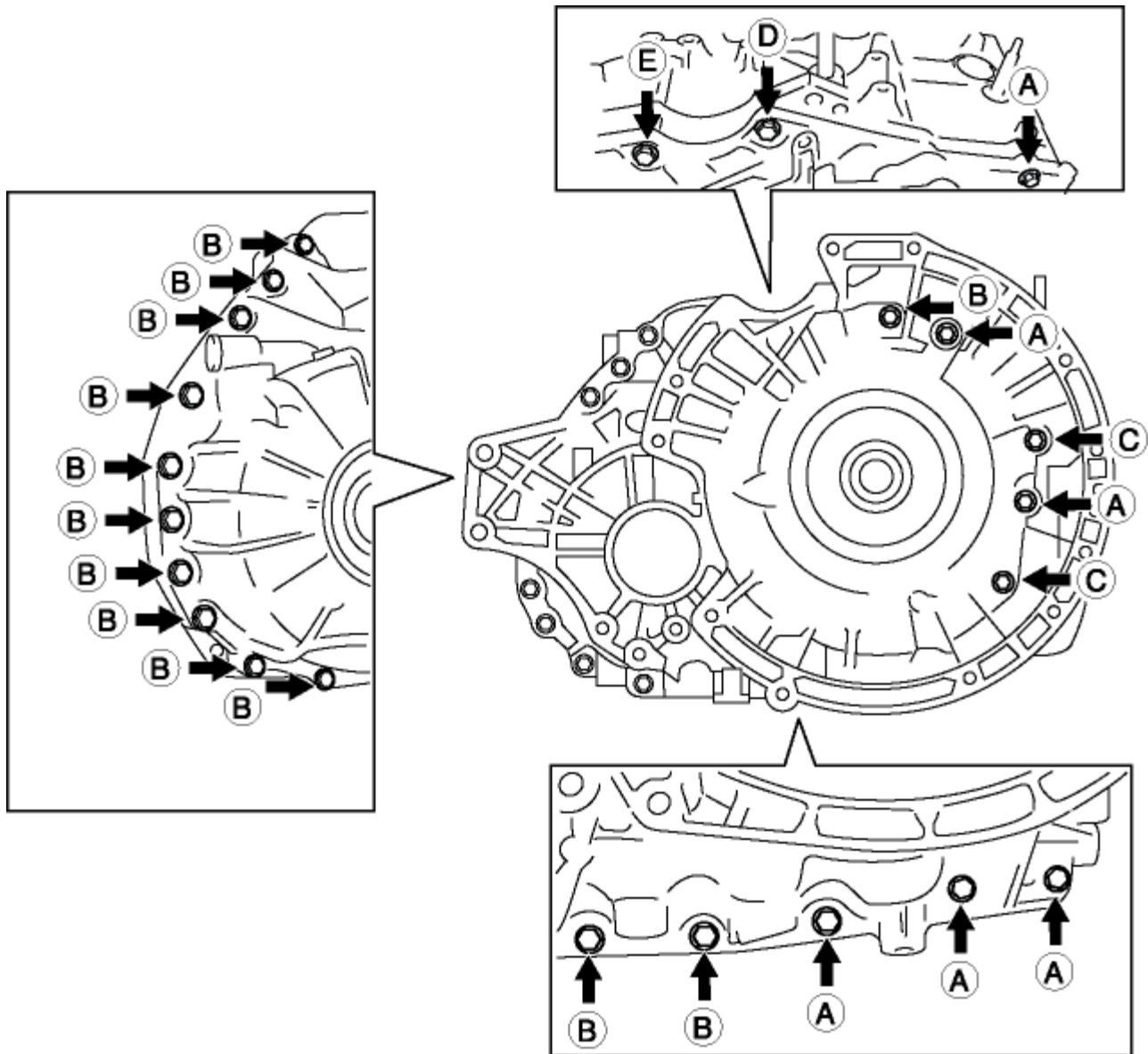
- Do not damage the O-ring on the oil pump component.

- Do not damage the oil seal (differential). (converter housing side)

NOTE:

- Tap all around the contact surface with a plastic hammer during installation.

19. Temporarily tighten the bolts by hand as shown in the figure.



Bolt number	Bolt size	Length (measured from below the head) (mm {in})
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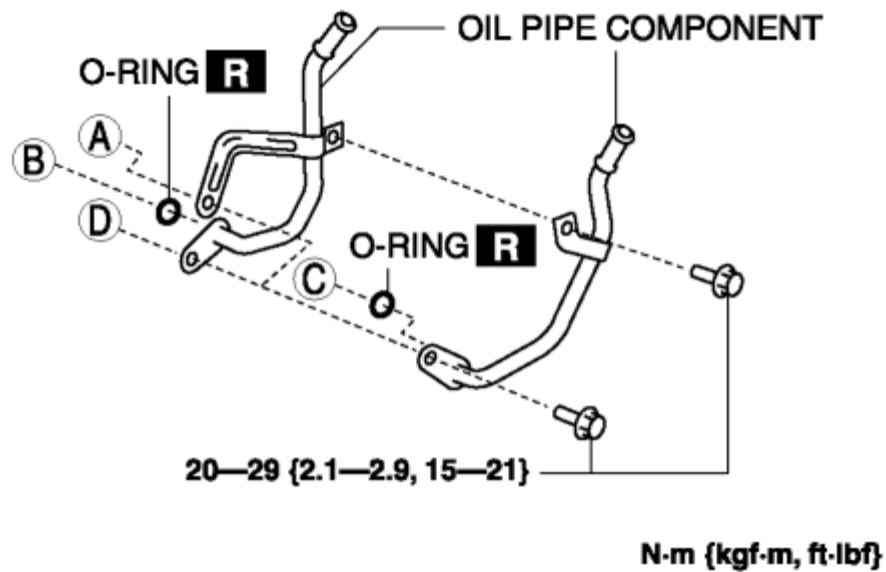
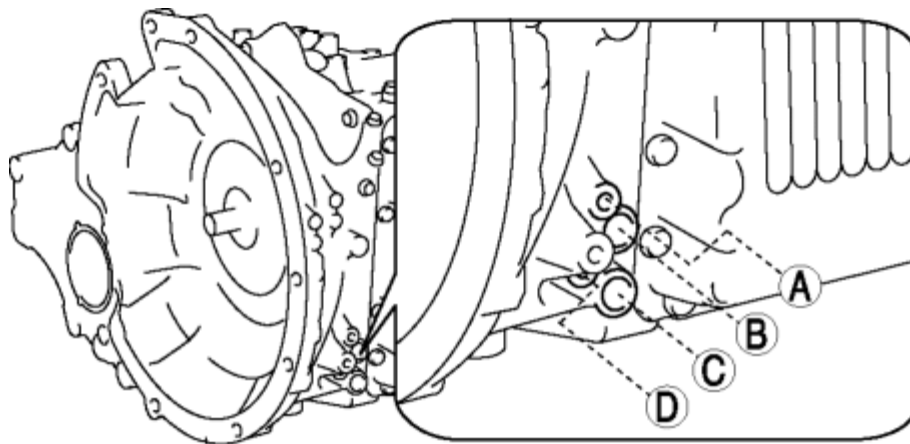
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20. Tighten the bolts.

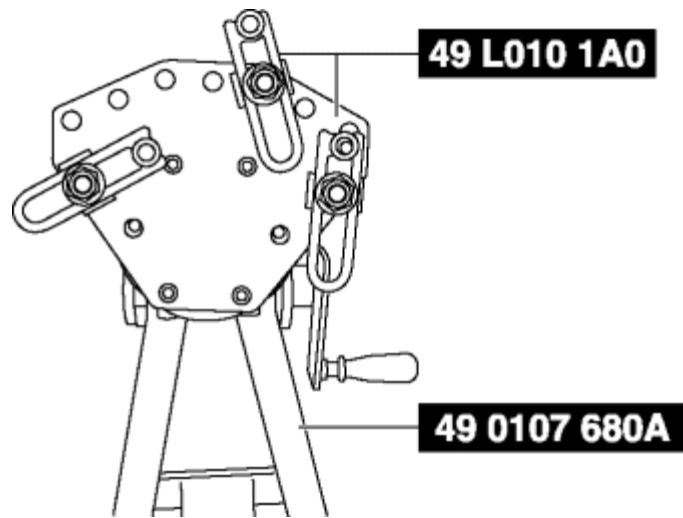
Tightening torque

- A, B, C: 24—35 N·m {2.5—3.5 kgf·m, 18—25 ft·lbf}
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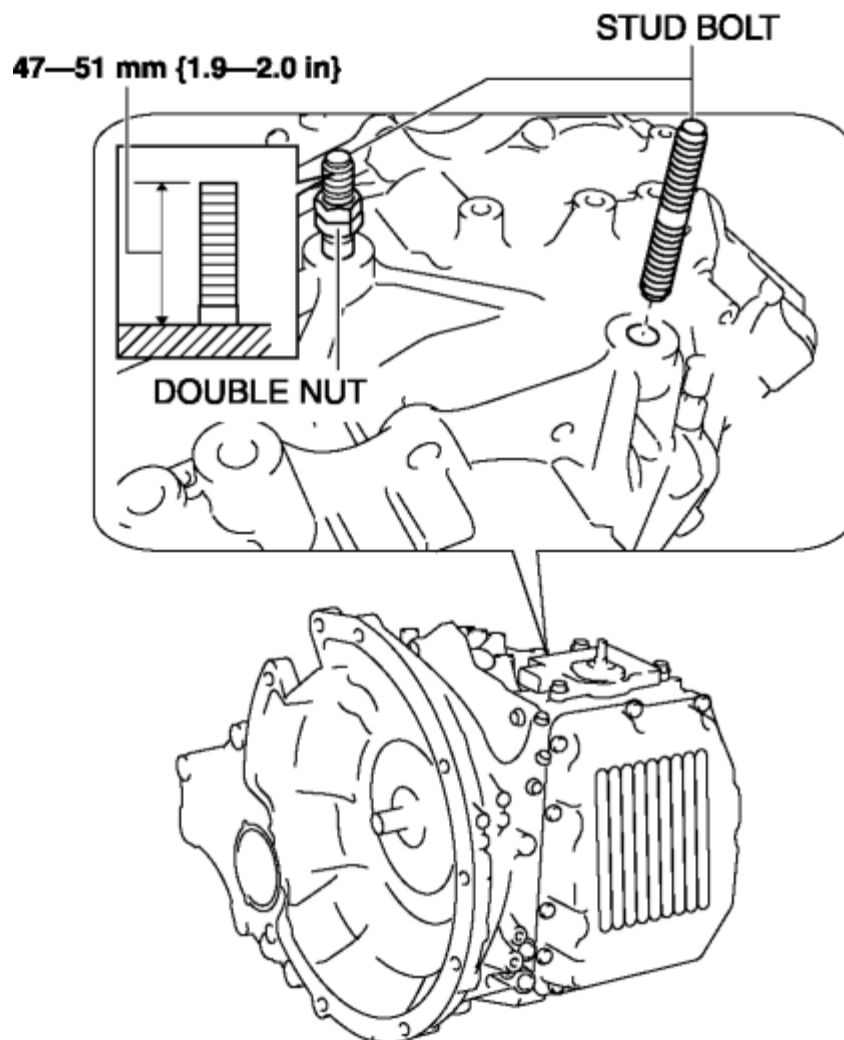
21. Install the oil pipe component and O-rings.



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CAUTION:

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27. Add ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#) .)

28. Adjust the ATF level. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) LEVEL ADJUSTMENT \[AY6A-EL\]](#) .)

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[< Previous](#) [Next >](#)

[Back to Top](#)

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