

GROUP 23B

CONTINUOUSLY
VARIABLE
TRANSAXLE
OVERHAUL

CONTENTS

GENERAL INFORMATION	23B-2	LUBRICANTS	23B-3
GENERAL SPECIFICATION	23B-2	SPECIAL TOOLS	23B-3
TORQUE SPECIFICATIONS	23B-2	TRANSAXLE	23B-4
		DISASSEMBLY AND REASSEMBLY	23B-4

GENERAL INFORMATION

M1233200101400

TRANSAXLE MODELS

Transaxle model	Engine model	Vehicle model
F1CJB-3-ACA	3A92	A03A

GENERAL SPECIFICATION

M1233201000920

Item		Specifications
Transaxle type		Forward 2 speeds + steel belt automatic continuous type, reverse 1 speed
Torque converter	Type	3-element·1-stage·2-phase
	Stall torque ratio	1.82
Transaxle gear ratio	Forward	4.007 – 0.550
	Reverse	3.771
Final gear ratio		3.757

TORQUE SPECIFICATIONS

M1233205000773

Item	N·m
Oil pan mounting bolt	5.9 ± 0.6 (52 ± 5 in-lb)
CVT fluid cooler mounting bolt	4.3 ± 0.5 (38 ± 4 in-lb)
Transmission range switch mounting bolt	5.9 ± 1.0 (52 ± 8 in-lb)
Manual control lever mounting nut	17 ± 2 (13 ± 1 ft-lb)
Output speed sensor mounting bolt	5.9 ± 1.0 (52 ± 8 in-lb)
Primary pulley speed sensor mounting bolt	5.9 ± 1.0 (52 ± 8 in-lb)
Secondary pulley speed sensor mounting bolt	5.9 ± 1.0 (52 ± 8 in-lb)
Control cable bracket mounting bolt	23 ± 3 (17 ± 2 ft-lb)
Oil level guide mounting bolt	5.5 ± 1.5 (49 ± 13 in-lb)
Harness bracket mounting bolt	5.5 ± 1.5 (49 ± 13 in-lb)
Drain plug	35 ± 4 (26 ± 2 ft-lb)

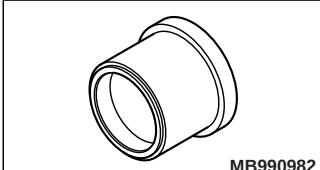
LUBRICANTS

M1233200400594

Item	Specified lubricant
Transmission fluid application parts	mitsubishi motors genuine cvtf-j4

SPECIAL TOOLS

M1233207000564

Tool	Tool number and name	Supersession	Application
	MB990982 Roll stopper bush r & i arbor	-	Installation of side oil seal

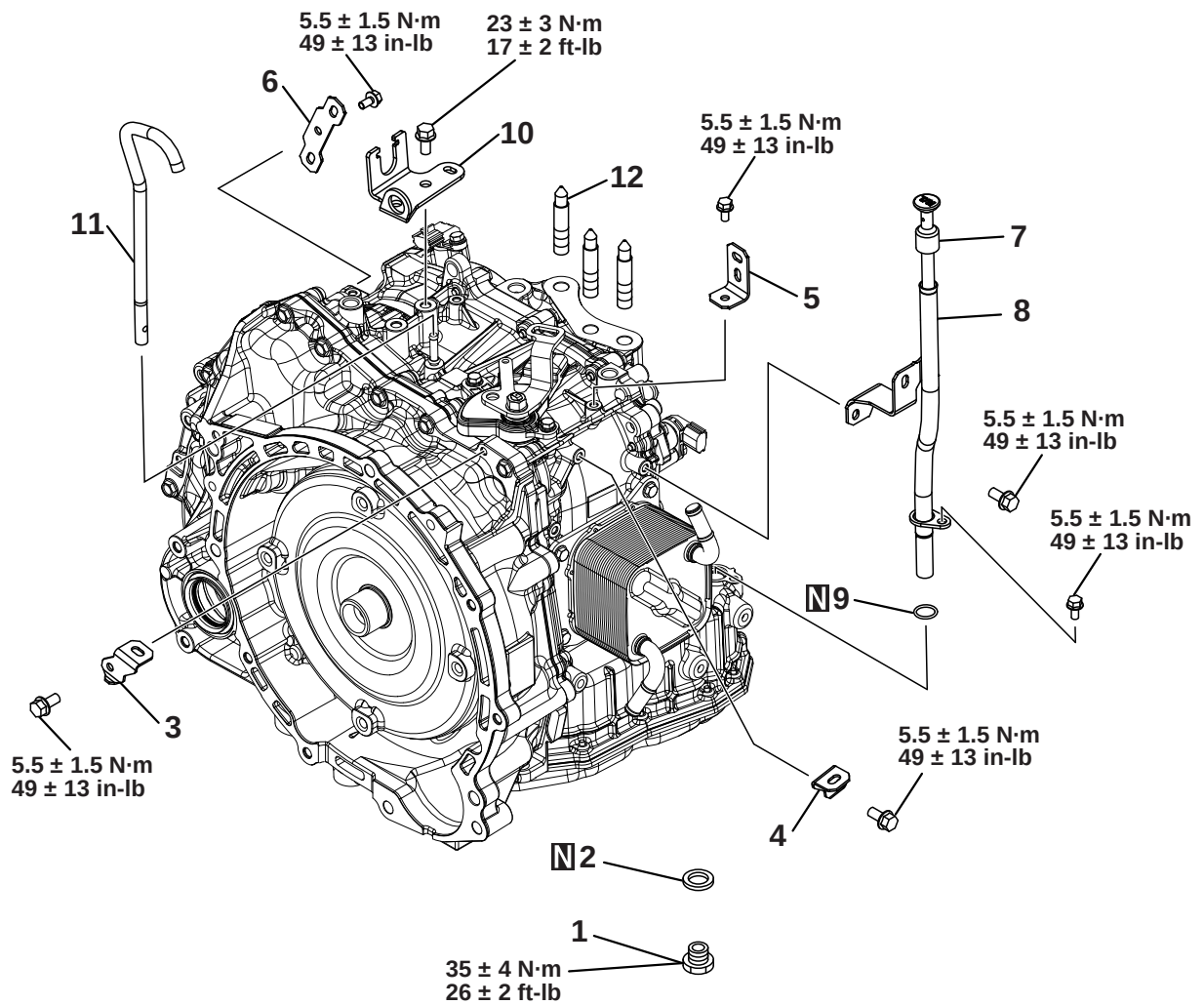
TRANSAXLE

DISASSEMBLY AND REASSEMBLY

M1233208001203

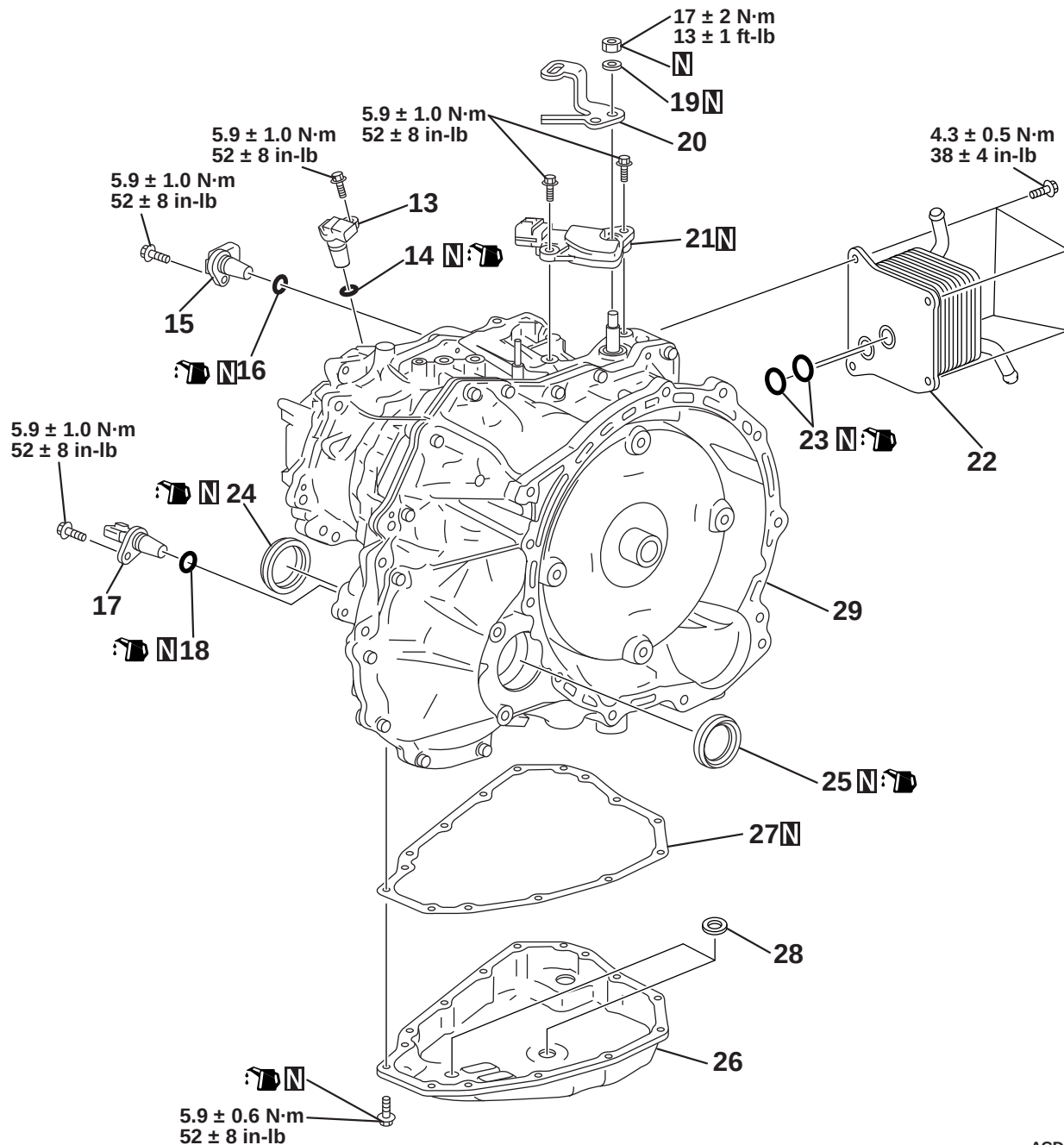
** CAUTION**

- Only use transmission fluid of the specified brand. Use of transmission fluid other than specified will impair driveability and CVT endurance, and may lead to breakage of CVT.
- Disassembly work should be done in a clean dust-proof room.
- Prior to disassembly, clean any sand or dirt adhered to the outer parts of transaxle using steam, washing oil or another solvent, outside the clean room, so as not to contaminate inner parts of transaxle during disassembly or assembly. (Do not allow steam to get inside the transaxle, and do not clean rubber parts with washing oil.)
- After cleaning, remove the torque converter, and drain the transmission fluid.
- Disassembly and assembly work should be done with bare hands or using plastic gloves.
- Do not touch inner parts of the transaxle after touching its outer parts. (Wash hands after touching the outer parts.)
- Do not use cotton gloves and rags to prevent from lint; instead, use paper rags.
- Prior to assembly or disassembly work, make sure conditions are appropriate.
- Do not re-use the drained transmission fluid.



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- | | |
|----------------------|---------------------------|
| 1. Drain plug | 7. Oil level gage |
| 2. Drain plug gasket | 8. Oil filler tube |
| 3. Harness bracket | 9. O-ring |
| 4. Harness bracket | 10. Control cable bracket |
| 5. Harness bracket | 11. Breather hose |
| 6. Harness bracket | 12. Stud |



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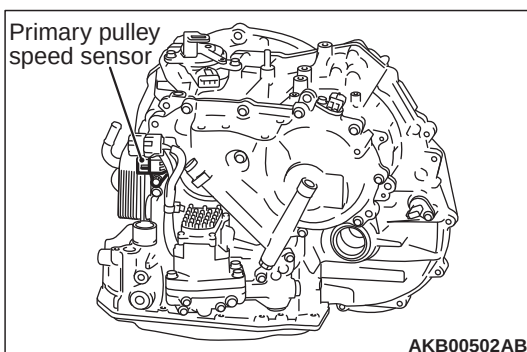
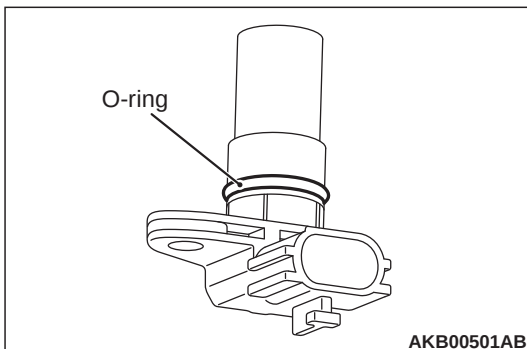
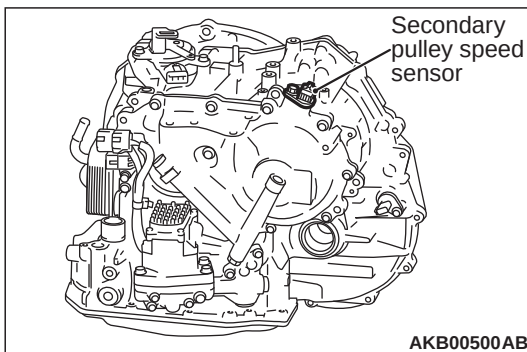
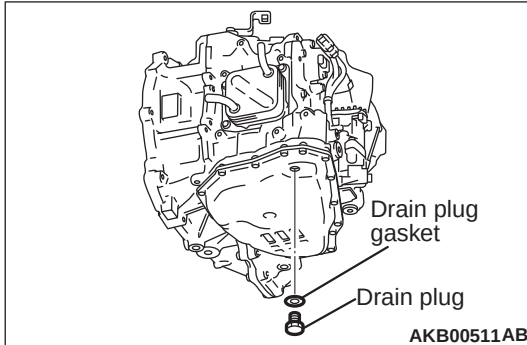
- 13. Secondary pulley speed sensor
- 14. O-ring
- 15. Primary pulley speed sensor
- 16. O-ring
- 17. Output speed sensor
- 18. O-ring
- 19. Washer
- 20. Manual control lever
- 21. Transmission range switch

- 22. Transmission fluid cooler
- 23. O-ring
- 24. Side oil seal
- 25. Side oil seal
- 26. Oil pan
- 27. Oil pan gasket
- 28. Magnet
- 29. Transaxle assembly

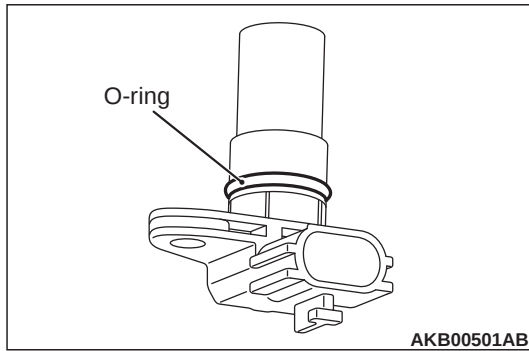
DISASSEMBLY SERVICE POINT

⚠ CAUTION

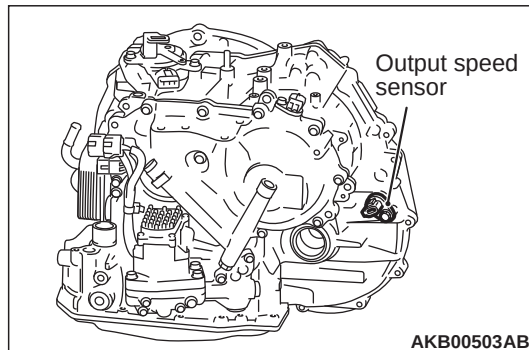
- Do not disassemble parts other than specified in this manual.
- Be careful not to drop the torque converter during servicing work.



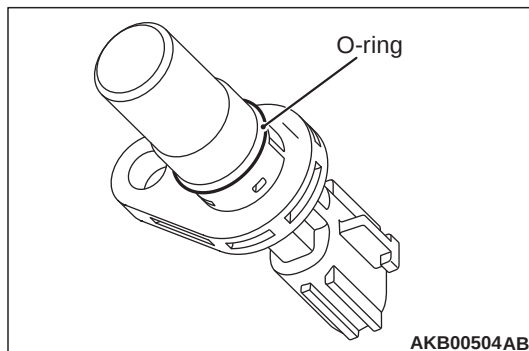
1. Remove the drain plug from the oil pan.
2. Remove the drain plug gasket from the drain plug.
3. Remove the harness bracket from the transaxle assembly.
4. Remove the oil filler tube and oil level gage from the transaxle case.
5. Remove the control cable bracket and breather hose from the transaxle case.
6. Remove the secondary pulley speed sensor from the transaxle case.
7. Remove the O-ring from the secondary pulley speed sensor.
8. Remove the primary pulley speed sensor from the transaxle case.



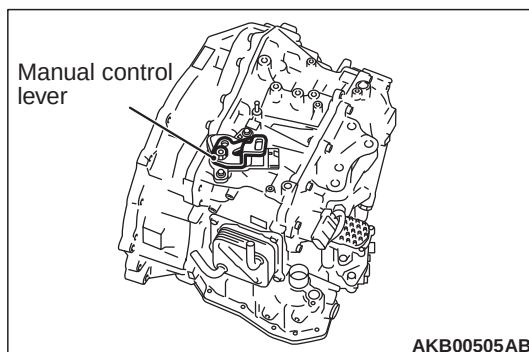
9. Remove the O-ring from the primary pulley speed sensor.



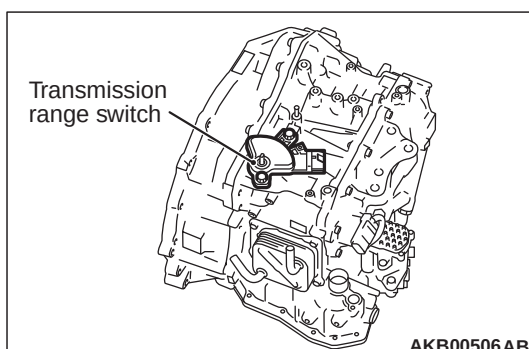
10. Remove the output speed sensor from the transaxle case.



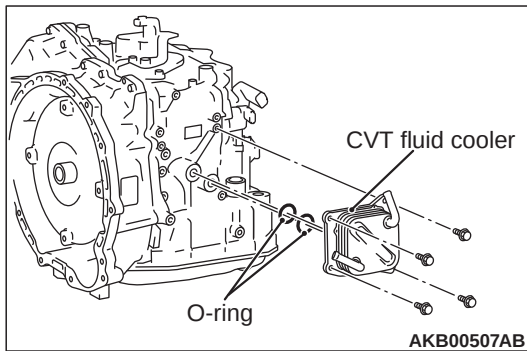
11. Remove the O-ring from the output speed sensor.



12. Remove the manual control lever from the manual shaft.



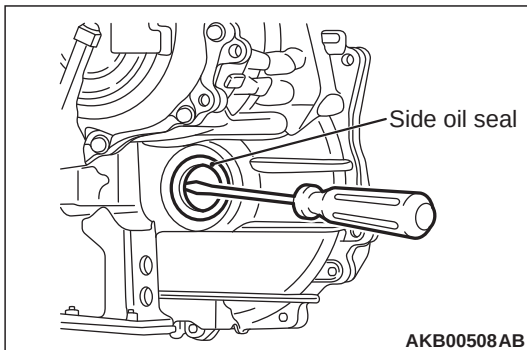
13. Remove the transmission range switch from the transaxle case.



14. Remove the transmission fluid cooler from the transaxle case, and detach the O-ring from the cooler.

CAUTION

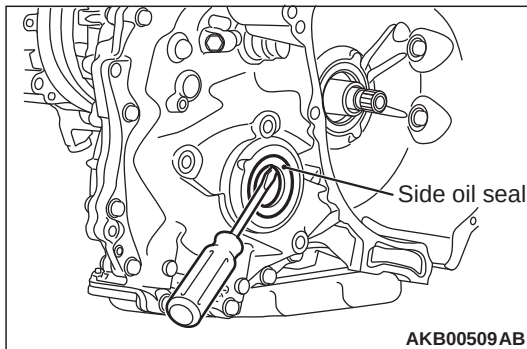
When removing the oil seal, be careful not to cause damage to the transaxle case.



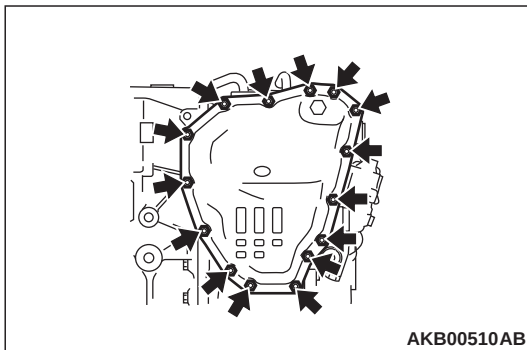
15. Using a flat blade screwdriver etc., remove the side oil seal from the housing.

CAUTION

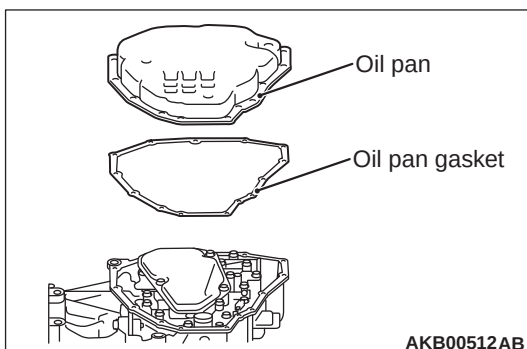
When removing the oil seal, be careful not to cause damage to the converter housing.



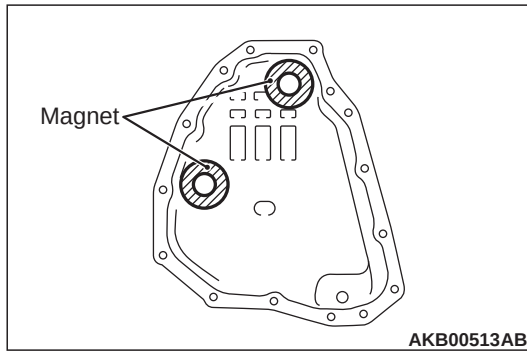
16. Using a flat blade screwdriver etc., remove the side oil seal from the housing.



17. Remove the oil pan bolt from the transaxle assembly.



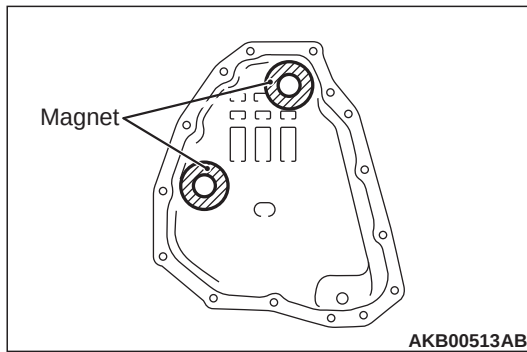
18. Remove the oil pan and oil pan gasket from the transaxle assembly.



19. Remove the magnet from the oil pan.

REASSEMBLY SERVICE POINT

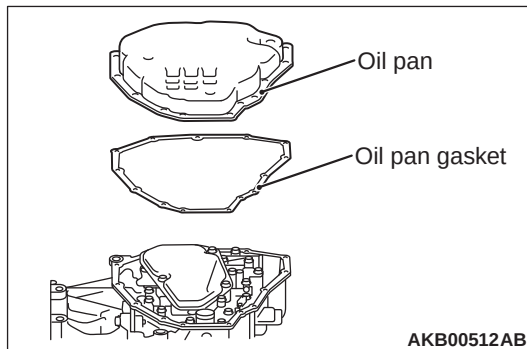
1. Install the magnet on the oil pan.



CAUTION

Do not re-use the oil pan gasket.

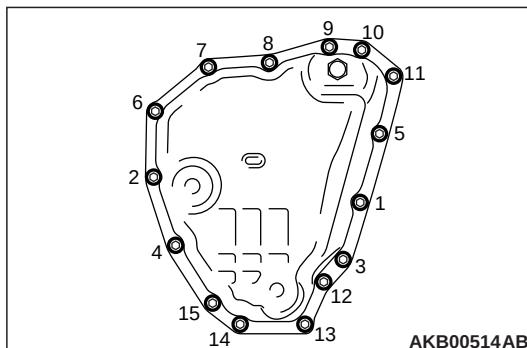
2. Install the oil pan and oil pan gasket on the transaxle case.
3. Tighten each front oil pan mounting bolt to the temporarily torque.

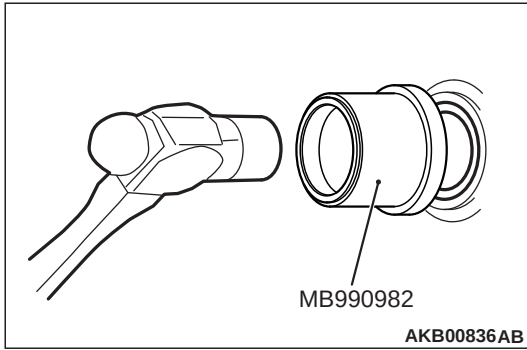


CAUTION

Wipe of transmission fluid after an transmission fluid application for the prevention from transmission fluid.

4. Tighten each oil pan mounting bolt to the specified torque of $5.9 \pm 0.6 \text{ N}\cdot\text{m}$ ($52 \pm 5 \text{ in}\cdot\text{lb}$) in the order of number shown.





⚠ CAUTION

- Do not re-use the O-ring.
 - Applied oil to the oil seal outside.
 - Be careful not to damage an oil seal lip at the time of drive shaft application attachment enough.
 - Wipe of transmission fluid after an transmission fluid application for the prevention from transmission fluid.
5. Using the special tool roll stopper bush r & i arbor (MB990982), install the side oil seal on the converter housing.

Depth from the case edge: within -1.8 ± 0.5 mm (0.07

⚠ CAUTION recessed).

- Do not re-use the O-ring.
 - Applied oil to the oil seal outside.
 - Be careful not to damage an oil seal lip at the time of drive shaft application attachment enough.
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6. Using the special tools roll stopper bush r & i arbor (MB990982), install the side oil seal on the transaxle case.

Depth from the case edge: within -1.8 ± 0.5 mm (0.07

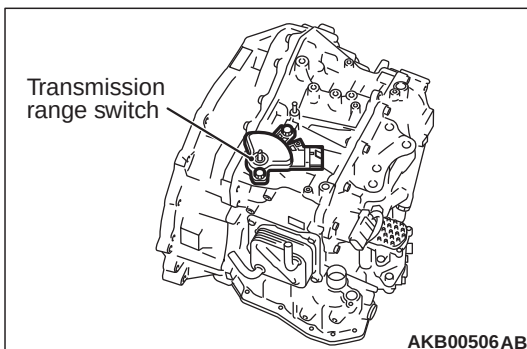
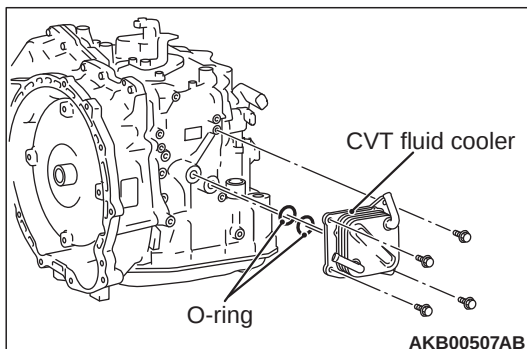
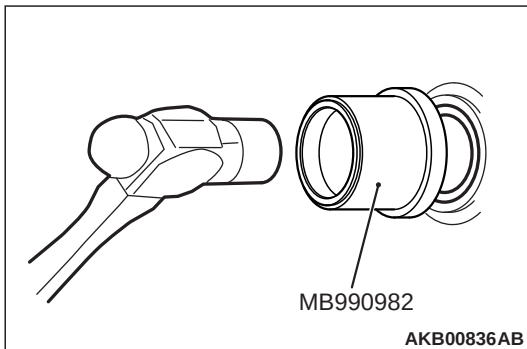
⚠ CAUTION recessed).

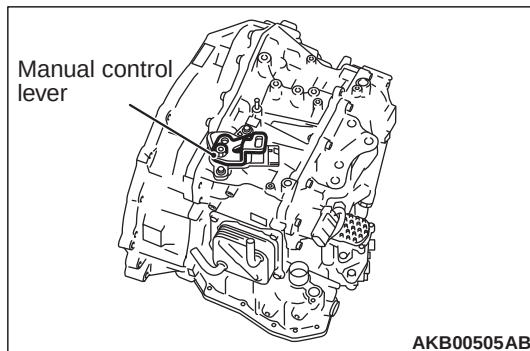
- Do not re-use the O-ring.
 - Apply transmission fluid when installing the O-ring.
 - When installing O-ring, make sure that projection of the O-ring is put into the groove on the filter.
7. Install the O-ring on the transmission fluid cooler.
8. Install the transmission fluid cooler on the transaxle case, and tighten the mounting bolts to the specified torque of 4.3 ± 0.5 N·m (38 ± 4 in-lb).

⚠ CAUTION

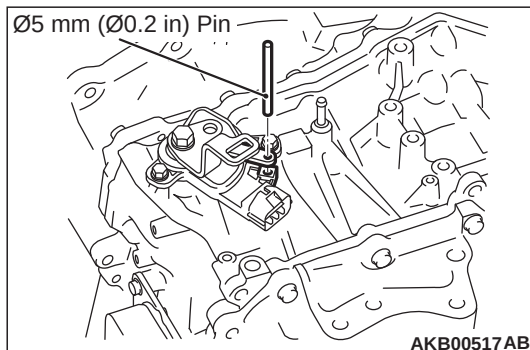
Do not re-use the transmission range switch.

9. Install the transmission range switch on the transaxle case in the following way.
10. Install the transmission range switch on the transaxle case.
11. Tighten each transmission range switch mounting bolt to the temporarily torque.





12. Install the manual control lever on the manual shaft.
13. Install the washer on the manual shaft, and tighten the mounting nuts to the specified torque of 17 ± 2 N·m (13 ± 1 ft-lb).
14. Set the manual shaft at N position.



15. Adjust the transmission range switch so that a $\phi 5$ mm ($\phi 0.2$ in) pin goes into the pin hole for N range position manual lever and transmission range switch.

⚠ CAUTION

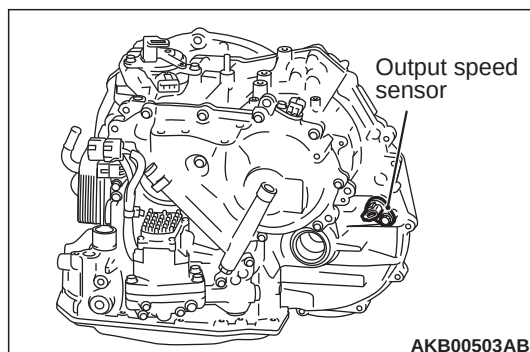
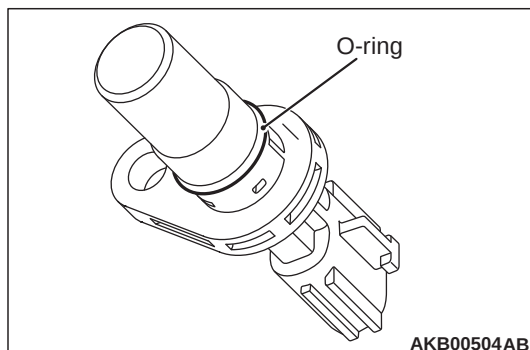
It checks that the pin is certainly inserted in the pin hole for N range position adjusted of manual lever and transmission range switch.

16. Transmission range switch tighten the mounting bolts to the specified torque of 5.9 ± 1.0 Nm (52 ± 8 in-lb).
17. A pin is removed from a pinhole for N range position

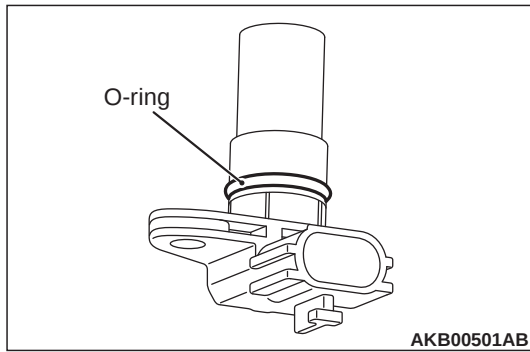
⚠ CAUTION

- Do not re-use the O-ring.
- Apply transmission fluid when installing the O-ring.
- Wipe of transmission fluid after an transmission fluid application for the prevention from transmission fluid.

18. Install the O-ring on the output speed sensor.



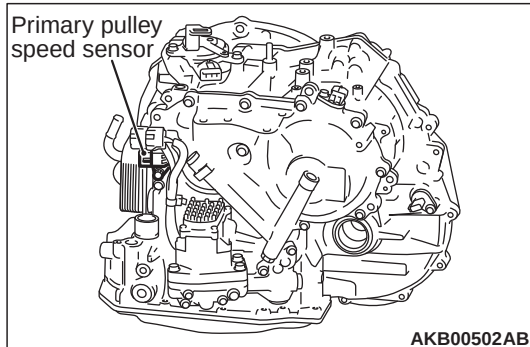
19. Install the output speed sensor on the converter housing, and tighten the mounting bolts to the specified torque of 5.9 ± 1.0 N·m (52 ± 8 in-lb).



⚠ CAUTION

- Do not re-use the O-ring.
- Apply transmission fluid when installing the O-ring.
- Wipe of transmission fluid after an transmission fluid application for the prevention from transmission fluid.

20. Install the O-ring on the primary pulley speed sensor.

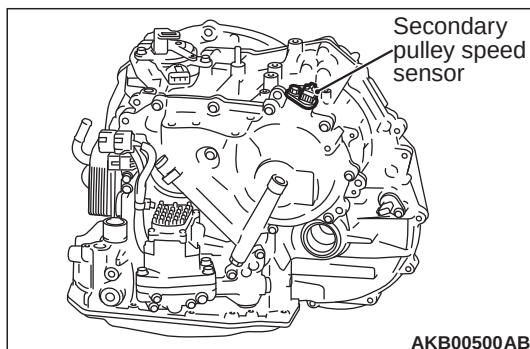
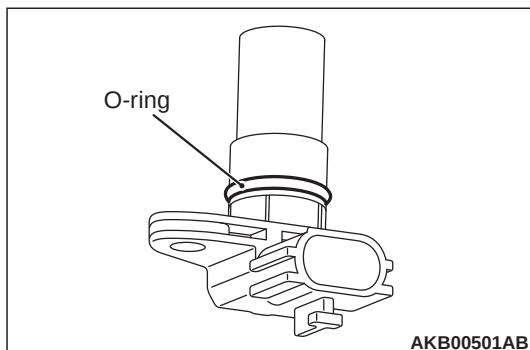


21. Install the primary pulley speed sensor on the transaxle assembly, and tighten the mounting bolts to the specified torque of 5.9 ± 1.0 N·m (52 ± 8 in-lb).

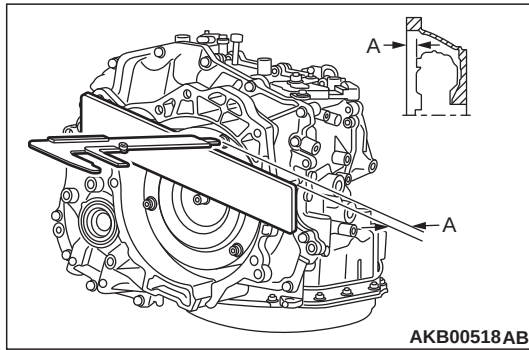
⚠ CAUTION

- Do not re-use the O-ring.
- Apply transmission fluid when installing the O-ring.
- Wipe of transmission fluid after an transmission fluid application for the prevention from transmission fluid.

22. Install the O-ring on the secondary pulley speed sensor.



23. Install the secondary pulley speed sensor on the transaxle assembly, and tighten the mounting bolts to the specified torque of 5.9 ± 1.0 N·m (52 ± 8 in-lb).

**⚠ CAUTION**

When conducting measurements, measure two or more places, and find the average value.

24. Install the converter on the transaxle assembly, and measure the size A to check if it meets the standard value.

Standard size A: 12.2 mm (0.48 in)

25. Install the control cable bracket and breather hose on the transaxle case.

26. Install the harness bracket on the transaxle assembly.

27. Install the oil filler tube and oil level gage on the transaxle case.

⚠ CAUTION

Do not re-use the oil pan gasket.

28. Install the drain plug and drain plug gasket on the transaxle case, and tighten to the specified torque of 35 ± 4 N·m (26 ± 2 ft·lb).

