Technical Service Bulletin

SUBJECT:	No: TSB-23-23-004
MAINTENANCE PROCEDURE CHANGE FOR CVT – SERVICE MANUAL REVISION	DATE: **April 2023**
	MODEL: **See below**

CIRCULATE TO:	[ ] GENERAL MANAGER	[**X**] PARTS MANAGER	[**X**] TECHNICIAN
[**X**] SERVICE ADVISOR	[**X**] SERVICE MANAGER	[**X**] WARRANTY PROCESSOR	[ ] SALES MANAGER

PURPOSE

This TSB provides corrections to the CVT maintenance procedure in the applicable Service Manual sections:

- Trouble Symptom Diagnosis Chart
- Data List Reference Table
- Hydraulic Pressure Test
- Disassembly and Reassembly

AFFECTED VEHICLES

2016-2017 Lancer
2015-2023 Outlander Sport
2016-2020 Outlander
2018-2020 and 2022-2023 Eclipse Cross

AFFECTED SERVICE MANUAL

- 2016-2017 Lancer Service Manual
- 2015-2023 Outlander Sport Service Manual
- 2016-2020 Outlander Service Manual
- 2018-2020 and 2022-2023 Eclipse Cross Service Manual

PROCEDURE

Please use the following chart as a guide to replace the indicated pages in the affected Service Manuals, Group 23, Automatic Transaxle, CVT.

Attached chart 1 (1/2)

LANCER

Applicable Manual	Pub. No.	Applicable Title	Contents
2016 LANCER Service Manual	MSCD-106B-2016	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ HYDRAULIC PRESSURE TEST	Attached Sheet 10,11
2017 LANCER Service Manual	MSCD-106B-2017	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ TROUBLE SYMPTOM DIAGNOSIS CHART	Attached Sheet 12
		AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ DATA LIST REFERENCE TABLE	Attached Sheet 13
		CONTINUOUSLY VARIABLE TRANSAXLE OVERHAUL └ TRANSAXLE └ TRANSAXLE DISASSEMBLY AND ASSEMBLY	Attached Sheet 14,23

OUTLANDER SPORT

Applicable Manual	Pub. No.	Applicable Title	Contents
2015 OUTLANDER SPORT Service Manual	MSCD-017B-2015	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT <F1CJC/W1CJC> └ DIAGNOSIS └ HYDRAULIC PRESSURE TEST	Attached Sheet 10,11
2016 OUTLANDER SPORT Service Manual	MSCD-017B-2016	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT <F1CJC/W1CJC> └ DIAGNOSIS └ TROUBLE SYMPTOM DIAGNOSIS CHART	Attached Sheet 12
2017 OUTLANDER SPORT Service Manual	MSCD-017B-2017	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT <F1CJC/W1CJC> └ DIAGNOSIS └ DATA LIST REFERENCE TABLE	Attached Sheet 13
		CONTINUOUSLY VARIABLE TRANSAXLE OVERHAUL <F1CJC/W1CJC> └ TRANSAXLE └ TRANSAXLE DISASSEMBLY AND ASSEMBLY	Attached Sheet 14,23
2018 OUTLANDER SPORT Service Manual	MSCD-017B-2018	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ HYDRAULIC PRESSURE TEST	Attached Sheet 10,11
2019 OUTLANDER SPORT Service Manual	MSCD-017B-2019		
2020 OUTLANDER SPORT Service Manual	MSCD-017B-2020	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ TROUBLE SYMPTOM DIAGNOSIS CHART	Attached Sheet 12
2021 OUTLANDER SPORT Service Manual	MSCD-017B-2021	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ DATA LIST REFERENCE TABLE	Attached Sheet 13
2022 OUTLANDER SPORT Service Manual	MSCD-017B-2022		
2023 OUTLANDER SPORT Service Manual	MSCD-017B-2023	CONTINUOUSLY VARIABLE TRANSAXLE OVERHAUL └ TRANSAXLE └ TRANSAXLE DISASSEMBLY AND ASSEMBLY	Attached Sheet 14,23

OUTLANDER

Applicable Manual	Pub. No.	Applicable Title	Contents
2016 OUTLANDER Service Manual	MSCD-007B-2016	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ HYDRAULIC PRESSURE TEST	Attached Sheet 10,11
2017 OUTLANDER Service Manual	MSCD-007B-2017	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ TROUBLE SYMPTOM DIAGNOSIS CHART	Attached Sheet 12
2018 OUTLANDER Service Manual	MSCD-007B-2018	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ DATA LIST REFERENCE TABLE	Attached Sheet 13
2019 OUTLANDER Service Manual	MSCD-007B-2019	CONTINUOUSLY VARIABLE TRANSAXLE OVERHAUL └ TRANSAXLE └ TRANSAXLE DISASSEMBLY AND ASSEMBLY	Attached Sheet 14,23
2020 OUTLANDER Service Manual	MSCD-007B-2020		

ECLIPSE CROSS

Applicable Manual	Pub. No.	Applicable Title	Contents
2018 ECLIPSE CROSS Service Manual	MSCD-020B-2018	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ HYDRAULIC PRESSURE TEST	Attached Sheet 10,11
2019 ECLIPSE CROSS Service Manual	MSCD-020B-2019	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ TROUBLE SYMPTOM DIAGNOSIS CHART	Attached Sheet 12
2020 ECLIPSE CROSS Service Manual	MSCD-020B-2020	AUTOMATIC TRANSAXLE (TRANSMISSION) └ CVT └ DIAGNOSIS └ DATA LIST REFERENCE TABLE	Attached Sheet 13
2022 ECLIPSE CROSS Service Manual	MSCD-020B-2022	CONTINUOUSLY VARIABLE TRANSAXLE OVERHAUL └ TRANSAXLE └ TRANSAXLE DISASSEMBLY AND ASSEMBLY	Attached Sheet 15,23
2023 ECLIPSE CROSS Service Manual	MSCD-020B-2023		

3. Stall speed is high only when the selector lever is in the R ranges.
   • Reverse brake is slipping
4. Stall speed is low when selector lever is in both D and R ranges.
   • Malfunction of the torque converter
   • Line pressure is low.
   • Low engine power

<New>
Insert the Attached sheet 11

<Old>

HYDRAULIC PRESSURE TEST

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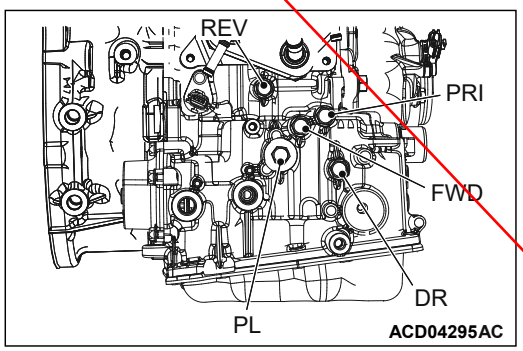
⚠ CAUTION
This test must be performed with the transmission fluid temperature within the range of 70 to 80°C.

1. Start the engine and warm it up until the transmission fluid temperature reaches 70 to 80°C (158 – 176°F).
2. Stop the engine and block the RH and LH rear wheels with the wheel chocks.
3. Install the following special tools at the hydraulic pressure outlet ports shown in the figure.

• Oil pressure gauge <3.0 MPa (435 psi)> (MD998330)
• Joint (MD998331)
• Joint (MB992127)



NOTE:
DR: Torque converter output pressure port
PRI: Primary pressure port
PL: Line pressure port
FWD: Forward clutch pressure port
REV: Reverse brake pressure port

4. Restart the engine.
5. Make sure that no transmission fluid leakage is found at the special tool fixing points.
6. Pull the parking brake lever and fully depress the brake pedal. (Maintain this operation until measurement is completed.)

⚠ WARNING
For safety, operators must not stand in front of and at the rear of the vehicle during this test.

7. Measure the hydraulic pressure at each measuring point in the conditions specified in the standard hydraulic pressure table, and check that the measurements are within the standard value.
8. If not within the standard value, take necessary steps according to the hydraulic pressure test diagnosis table.
9. Stop the engine.
10. Replace the O-rings on the plugs for each pressure port.
11. Remove the special tools and fit the plugs in the hydraulic pressure ports.
12. Install the plugs. Then, start the engine and check that no transmission fluid leakage is found around the plugs.

<Old>

Standard hydraulic pressure table

Measuring conditions		Standard hydraulic pressure MPa (psi)				
Selector lever position	Engine speed	Forward clutch pressure [Pressure at FWD]	Reverse brake pressure [Pressure at REV]	Primary pressure [Pressure at PRI]	Line pressure [Pressure at PL]	Torque converter [Pressure at DR]
P	Idling	0 (0)	0 (0)	0.1 – 1.5 (15 – 218)	0.5 – 1.8 (73 – 261)	0.4 – 0.7 (58 – 102)
R		0 (0)	0.2 – 1.5 (29 – 218)	0.1 – 1.5 (15 – 218)	0.5 – 1.8 (73 – 261)	0.4 – 0.7 (58 – 102)
N		0 (0)	0 (0)	0.1 – 1.5 (15 – 218)	0.5 – 1.8 (73 – 261)	0.4 – 0.7 (58 – 102)
D		0.2 – 1.5 (29 – 218)	0 (0)	0.1 – 1.5 (15 – 218)	0.5 – 1.8 (73 – 261)	0.4 – 0.7 (58 – 102)

Hydraulic pressure test diagnosis table

Symptom	Faulty part
Hydraulic pressure is high at all measuring points.	Incorrect measuring method
Hydraulic pressure is low at all measuring points.	Malfunction of oil pump Clogged oil strainer Clogged oil cooler Malfunction in valve body assembly Improper installation of valve body assembly
Only forward clutch pressure is abnormal.	Malfunction in valve body assembly Improper installation of valve body assembly
Only reverse brake pressure is abnormal.	Malfunction in valve body assembly Improper installation of valve body assembly
Only primary pressure is abnormal	Malfunction in valve body assembly Improper installation of valve body assembly
Only line pressure is abnormal.	Malfunction in valve body assembly Improper installation of valve body assembly
Only torque converter output pressure is abnormal	Malfunction in valve body assembly Improper installation of valve body assembly Malfunction of torque converter

HYDRAULIC PRESSURE TEST

Required Special Tools:

- MB992744: Vehicle communication interface-Lite (V.C.I.-Lite)
- MB992745: V.C.I.-Lite main harness A
- MB992747: V.C.I.-Lite USB cable short
- MB992748: V.C.I.-Lite USB cable long

⚠ CAUTION

This test must be performed with the transmission fluid temperature within the range of 70 to 80°C (158 to 176°F).

1. Check the engine oil level, and add if necessary.
2. Warm up the engine, and then perform test drive for approximately 10 minutes.
3. Check the transmission fluid for leaks, level and contamination. Then top up or change if necessary.
4. Operate the parking brake securely, and then chock the wheels.
5. Connect the scan tool (M.U.T.-IIISE), and then start the engine.

⚠ WARNING

For safety, operators must not stand in front of and at the rear of the vehicle during this test.

⚠ CAUTION

During this test, leave the brake pedal depressed fully.

6. Use the scan tool (M.U.T.-IIISE) (data list item No. 21: Secondary pressure) to measure the secondary pressure by observing the conditions listed in the standard hydraulic pressure table.

Standard hydraulic pressure table

Measuring conditions		**Standard hydraulic pressure MPa (psi)**
Selector lever position	Engine speed	Secondary pressure [Pressure at SEC]
P	Idling	1.0 - 1.2 (145 - 174)
R		1.1 - 1.5 (160 - 218)
N		1.0 - 1.2 (145 - 174)
D		1.1 - 1.5 (160 - 218)

7. Stop the engine.
8. If not within the standard value, take necessary steps according to the hydraulic pressure test diagnosis table.

Hydraulic pressure test diagnosis table

Judgement result		Probable cause		Remedy
During engine idling	Low at all ranges (P, R, N, D)	The hydraulic pressure delivery system or the oil pump may be faulty	• Worn oil pump	Replace the transaxle assembly
			• Damaged oil pump chain and sprocket	
			• Defective pressure regulator valve, or deteriorated spring	Replace the valve body assembly
			• Leaks in the hydraulic pressure circuit ranging from the oil strainer via the oil pump to the pressure regulator valve	Replace the transaxle assembly
			• The engine idling speed is low	Check the engine system, and repair or replace if necessary
	Low at certain range(s) only	Oil leaks may be present in the device or circuit relating to that range		Replace the transaxle assembly
	High	Sensor(s) or the pressure adjusting function may be faulty	• Malfunction of the accelerator pedal position sensor	Check the accelerator pedal position sensor, and repair or replace if necessary
			• Malfunction of the oil pressure sensor	Replace the valve body assembly
			• Malfunction of the line pressure solenoid valve (stuck OFF, open circuit or short circuit)	
			• Malfunction of the pressure regulator valve	

TROUBLE SYMPTOM DIAGNOSIS CHART

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Diagnose the system by referring to the trouble symptom chart and the possible cause chart. Then check, repair or replace if necessary.

Trouble symptom chart

NOTE: Diagnose the system in the order of "Possible cause No.".

Trouble symptom		Possible cause No.
Select shock	The select shock is large when the selector lever position is shifted from "N" to "D".	1 → 5 → 12 → 7 → 2 → 3 → <Added> 4 → 15 → 8 → 16 → 17
	The select shock is large when the selector lever position is shifted from "N" to "R".	1 → 5 → 12 → 7 → 2 → 3 → 15 → 8 → 16 → 17
	The torque converter lock-up shock is large.	5 → 1 → 7 → 2 → 16 → 15 → 17
Does not slip or not be engaged	The vehicle does not start at the D range.	2 → 5 → 7 → 3 → 4 → 9 → 10 → 11 → 1 → 12 → 13 → 14 → 6 → 16 → 17
	The vehicle does not start at the R range.	2 → 5 → 7 → 3 → 4 → 9 → 10 → 11 → 1 → 12 → 13 → 14 → 6 → 16 → 17
	Lock-up clutch is not engaged.	2 → 3 → 1 → 9 → 10 → 15 → 7 → 4 → 8 → 12 → 11 → 13 → 14 → 16 → 17
	Lock-up clutch is disengaged.	2 → 3 → 1 → 9 → 10 → 15 → 7 → 4 → 8 → 12 → 13 → 11 → 14 → 16 → 17
	Lock-up clutch is not disengaged.	2 → 3 → 1 → 9 → 10 → 15 → 7 → 4 → 16 → 17
	Cannot be driven at D range, or extremely poor acceleration	2 → 3 → 4 → 1 → 7 → 8 → 5 → 9 → 10 → 11 → 13 → 14 → 12 → 6 → 16 → 17
	Cannot be driven at R range, or extremely poor acceleration	2 → 3 → 4 → 1 → 7 → 8 → 5 → 9 → 10 → 11 → 13 → 14 → 12 → 6 → 16 → 17
	Slips occurs when the lock-up clutch is engaged	2 → 3 → 1 → 9 → 10 → 15 → 7 → 4 → 8 → 12 → 11 → 13 → 14 → 16 → 17

Trouble symptom		Possible cause No.
Others	The vehicle does not creep.	2 → 3 → 1 → 8 → 7 → 4 → 5 → 9 → 10 → 11 → 12 → 13 → 14 → 6 → 16 → 17
	The vehicle can be driven at any ranges. <Old> <New> 5 → 16 → 17	~~2 → 3 → 8 → 4 → 5 → 9 → 10 → 11 → 1 → 12 → 13 → 14 → 6 → 16 → 17~~
	The vehicle cannot be driven at the D range.	2 → 3 → 8 → 4 → 5 → 9 → 10 → 11 → 1 → 12 → 13 → 14 → 6 → 16 → 17
	The vehicle cannot be driven at the R range.	2 → 3 → 8 → 4 → 5 → 9 → 10 → 11 → 1 → 12 → 13 → 14 → 6 → 16 → 17
	Juddering occurs when the lock-up clutch is engaged	2 → 1 → 9 → 10 → 11 → 7 → 15 → 16 → 17
	Abnormal noise occurs at the D range.	2 → 1 → 7 → 16 → 17
	Abnormal noise occurs at the R range.	2 → 1 → 7 → 16 → 17 4 → <Added>
	Abnormal noise occurs at the N range.	2 → 1 → 7 → 16 → 17
	The engine brake does not work.	2 → 5 → 7 → 9 → 10 → 11 → 3 → 1 → 16 → 17
	The maximum speed is low.	2 → 3 → 1 → 7 → 4 → 9 → 10 → 11 → 13 → 14 → 16 → 15 → 17
	The vehicle cannot be stationary at P range. Or the parking mechanism cannot be released when the selector lever is moved to another range.	8 → 5 → 17
	Drive the vehicle at P range.	8 → 2 → 5 → 16 → 17
	Drive the vehicle at N range.	8 → 2 → 5 → 16 → 17
	The engine stalls.	2 → 1 → 9 → 10 → 15 → 7 → 4 → 13 → 14 → 16 → 17
	The engine stalls when the selector lever is shifted from the N range to the D or R range.	2 → 1 → 9 → 10 → 15 → 7 → 16 → 17

Possible cause chart

Possible cause No.	Probable cause	Remedy
1	Malfunction of the engine system	Check the engine system, and repair or replace if necessary.
2	Improper transmission fluid level	Check the transmission fluid, and repair or replace if necessary. (Refer to P.23A-170)
3	Not within the standard value of the line pressure	Check the hydraulic system, and repair or replace if necessary. (Refer to P.23A-34)
4 <Old>	~~Malfunction of torque converter~~	~~Check the torque converter, and repair or replace if necessary. (Refer to P.23A-33)~~
5	Malfunction of transaxle control cable	Check the transaxle control cable, and repair or replace if necessary. (Refer to P.23A-174)
6	Malfunction of TCM power supply system	Check the TCM power supply system, and repair or replace if necessary.
7	Malfunction of the CAN bus line	Check the CAN bus line, and repair or replace if necessary.
8	Malfunction of the transmission range switch	Check the transmission range switch, and repair or replace if necessary. (Refer to P.23A-173)
9	Malfunction of the turbine speed sensor	Check the turbine speed sensor, and repair or replace if necessary.
10	Malfunction of the primary pulley speed sensor	Check the primary pulley speed sensor, and repair or replace if necessary.
11	Malfunction of the secondary pulley speed sensor	Check the secondary pulley speed sensor, and repair or replace if necessary.
12	Malfunction of the transmission fluid temperature sensor	Check the transmission fluid temperature sensor, and repair or replace if necessary. (Refer to P.23A-178)
13	Malfunction of the primary pressure sensor	Replace the valve body assembly. (Refer to P.23A-187)
14	Malfunction of the secondary pressure sensor	
15	Malfunction of the lock-up solenoid valve	
16	Malfunction of the valve body assembly	
17	Malfunction of the CVT assembly	Replace the CVT assembly.
<New>	・Malfunction of torque converter ・Poor retaining performance of the forward clutch and the reverse brake	Implementation of torque converter stall test

Item No.	Display on scan tool	Check conditions	Normal conditions
14	Acceleration/deceleration value	•Vehicle speed: Driving at constant speed of 60 km/h (37 mph) •Selector lever position: D	Approx. 0 G
15	Accelerator position	Accelerator pedal: Fully closed	0%
		Accelerator pedal: Depressed	Opening angle value increases in response to the depression amount of the accelerator pedal
		Accelerator pedal: Fully opened	100%
16	Real engine torque	•Vehicle speed: Driving at constant speed of 60 km/h (37 mph) •Selector lever position: D	Approx. 40 Nm (30 ft-lb)
17	Engine torque (After correction)	•Vehicle speed: Driving at constant speed of 60 km/h (37 mph) •Selector lever position: D	Approx. 40 Nm (30 ft-lb)
18	Input torque	•Vehicle speed: Driving at constant speed of 60 km/h (37 mph) •Selector lever position: D	Approx. 40 Nm (30 ft-lb)
19	Torque ratio	•Engine: Idling •Selector lever position: P	Approx. 1.0
		While the vehicle is driven	Value depends on driving condition
20	Primary pressure	•Engine: Idling •Selector lever position: N •After warm-up	0.45 – 0.55 MPa (65 – 80 psi)
21	Secondary pressure <Old>	~~•Engine: Idling •Selector lever position: N •After warm-up~~	~~1.0 – 1.2 MPa (145 – 174 psi)~~
22	CVT oil temperature	Driving after engine has warmed up	Gradually increases
23	Vehicle speed (Inference)	While the vehicle is driven	Nearly the same as the speedometer display
24	Real vehicle speed	While the vehicle is driven	Nearly the same as the speedometer display
25	Turbine revolution (Control)	While the vehicle is driven	Nearly the same as the tachometer display
26	Target input pulley revolution	While the vehicle is driven	Nearly the same as the tachometer display
27	Target change gear ratio	•Vehicle speed: 0 km/h (0 mph) •Engine: Idling •Selector lever position: N	2.631 – 0.378

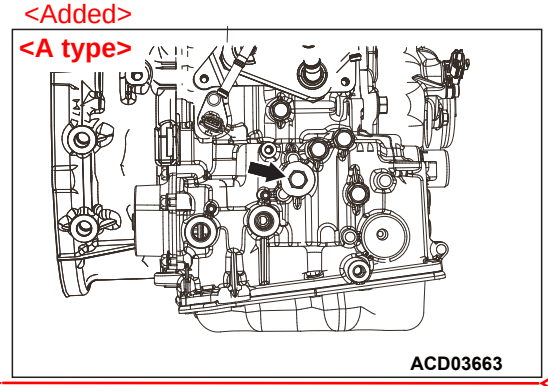
<New>

• Engine: Idling	Selector lever position: P,N	1.0 − 1.2 MPa (145 − 174 psi)
• After warm-up	Selector lever position: R,D	1.1 − 1.5 MPa (160 − 217 psi)

<Added> NOTE: The number of plugs differs depending on the type of CVT.
・A type: 5
・B type: 2

10. Remove the plug from the transaxle case, and detach the O-ring from the plug.

<Added>
<A type>



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<Added>
Insert the Attached sheet 23 (1/5) - A

11. Remove the turbine speed sensor from the converter housing, and detach the O-ring from the sensor.

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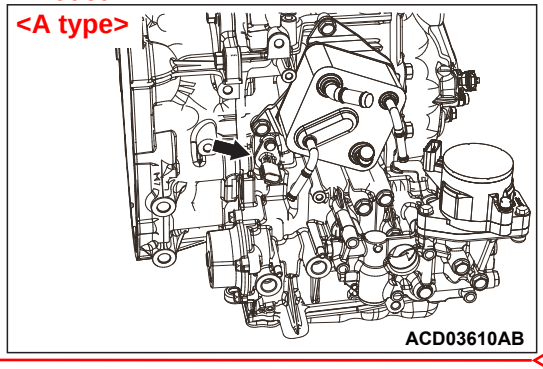
<A type>



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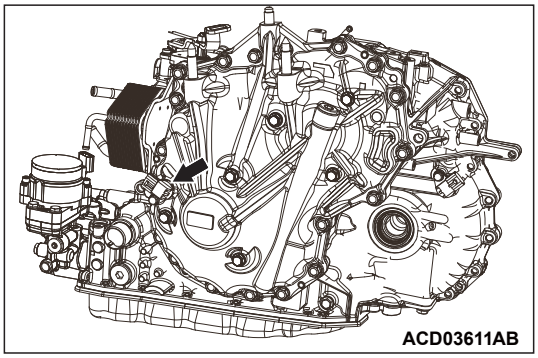
12. Remove the primary pulley speed sensor from the side cover, and detach the O-ring from the sensor.



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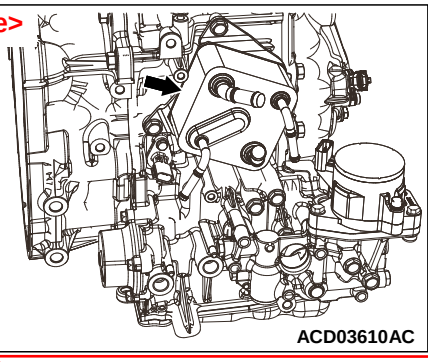

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16.Remove the CVT fluid cooler from the transaxle case.

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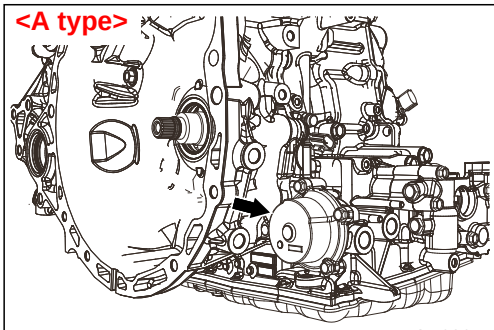

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17.Remove the filter cover from the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - D

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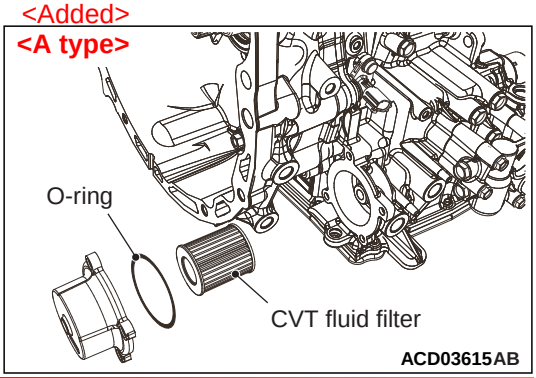

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18.Remove the O-ring and CVT fluid filter from the transaxle case.

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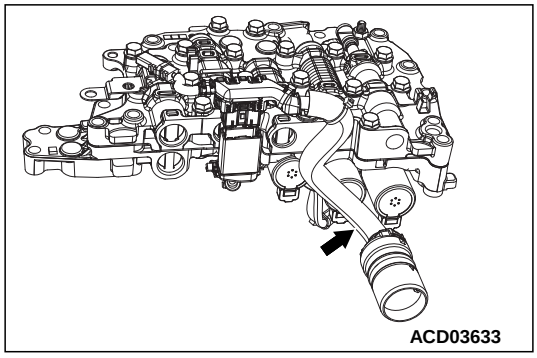
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31.Remove the valve body harness from the valve body assembly.

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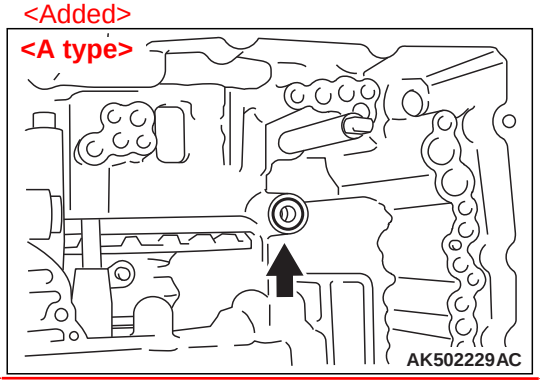

32.Remove the lip seal from the transaxle case.

<Added>
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REASSEMBLY SERVICE POINT

⚠ CAUTION
- **Do not re-use the lip seal.**
- **Apply transmission fluid or vaseline when installing the lip seal.**

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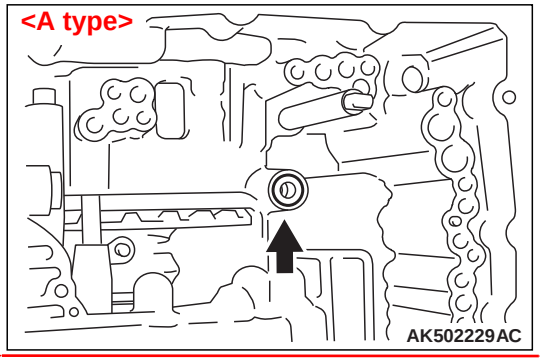

1. Install the lip seal on the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - F

2. Install the valve body assembly on the transaxle case as follows.

⚠ CAUTION

- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

14. Install the O-ring and CVT fluid filter on the transaxle case.

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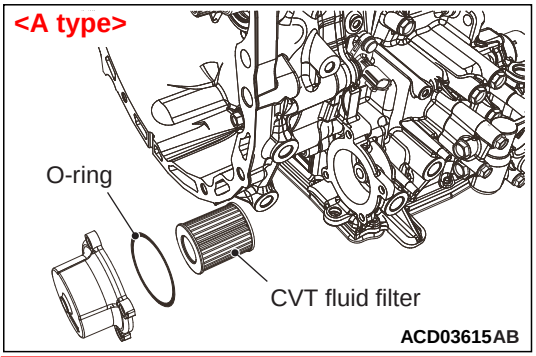

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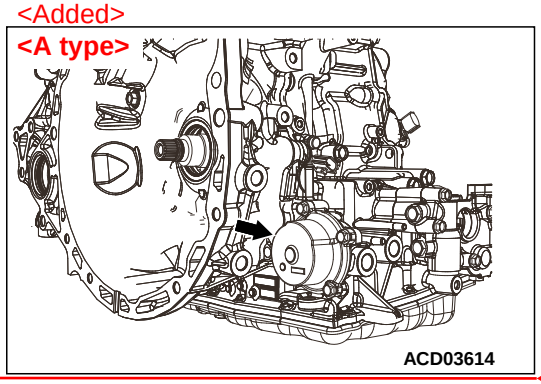

15. Install the filter cover on the transaxle case, and tighten the fastening bolts to the specified torque of 5.1 N·m (45 in-lb).

<Added>
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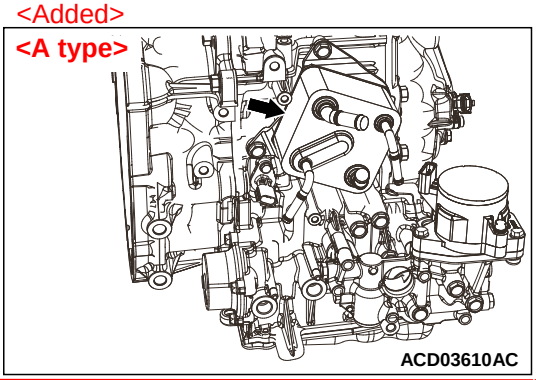
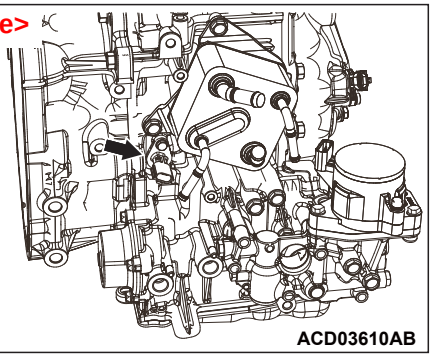


16. Install the CVT fluid cooler on the transaxle case, and tighten the fastening bolts to the specified torque of 4.2 N·m (37 in-lb).

<Added>
Insert the Attached sheet 23 (1/5) - C

<Added>
<A type>



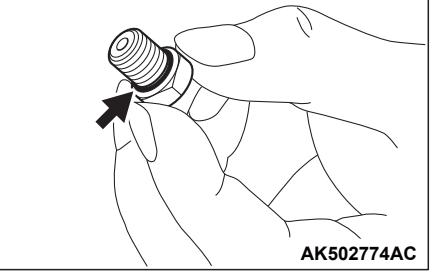
ACD03610AB

23. Install the turbine speed sensor on the transaxle case, and tighten the fastening bolts to the specified torque of 5.9 N·m (52 in-lb).

<Added>
Insert the Attached sheet 23 (1/5) - B

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

24. Install the O-ring on the plug.



AK502774AC

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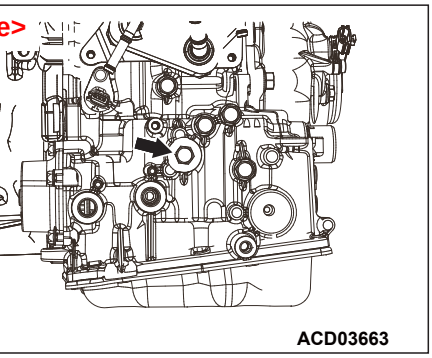
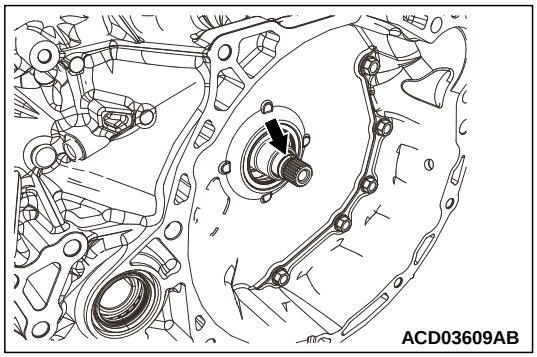


ACD03663

25. Fasten the plug on the transaxle case to the specified torque of 7.5 N·m (66 in-lb).

<Added>
Insert the Attached sheet 23 (1/5) - A


ACD03609AB

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

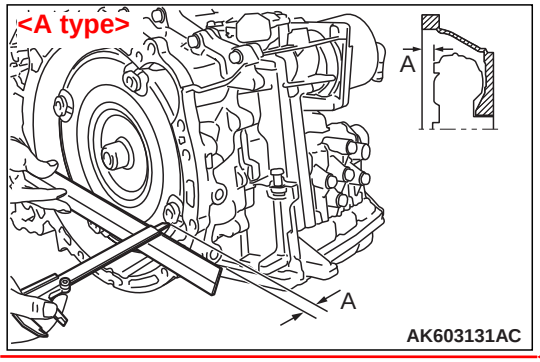
26.Install the O-ring on the input shaft.

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

27.Install the torque converter on the transaxle, and measure the size (A) to check if it meets the standard value.

Standard size (A): 13 mm (0.5 inch)

<Added>
<A type>

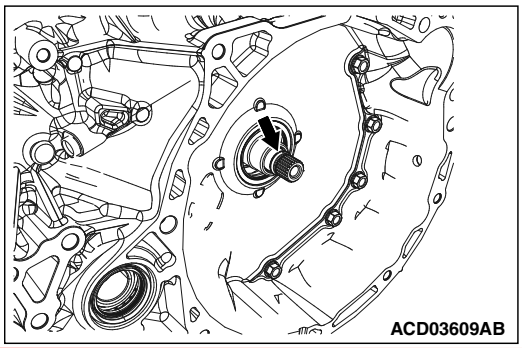


AK603131AC

<Added>
Insert the Attached sheet 23 (1/5) - G

⚠ CAUTION
When removing the O-ring, be careful not to cause damage to the input shaft.

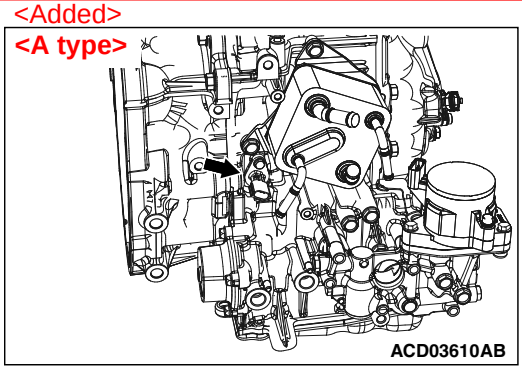
9. Remove the O-ring from the input shaft.


ACD03609AB

<Added>
Insert the Attached sheet 23 (2/5) - H

<Added>
<A type>

10. Remove the turbine speed sensor from the converter housing, and detach the O-ring from the sensor.


ACD03610AB

<Added>
Insert the Attached sheet 23 (1/5) - B

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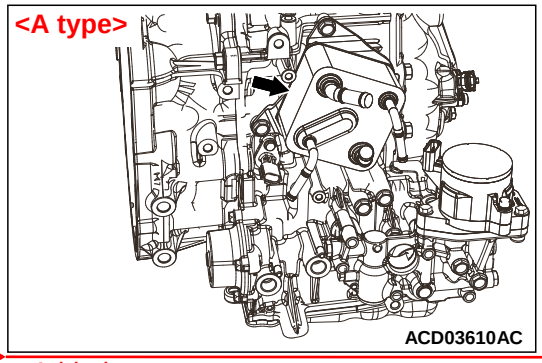
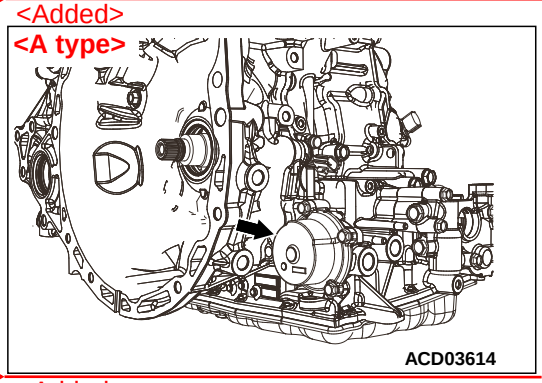


ACD03610AC

15.Remove the transmission fluid cooler from the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - C

<Added>
<A type>

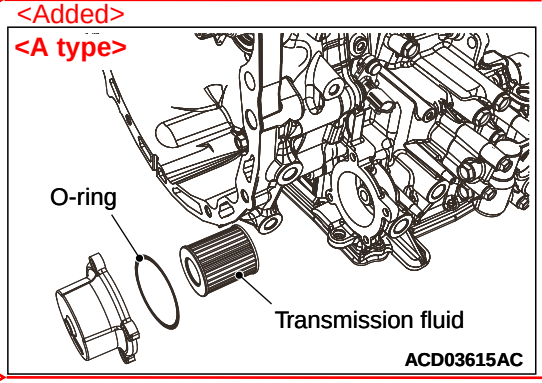


ACD03614

16.Remove the filter cover from the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - D

<Added>
<A type>



ACD03615AC

17.Remove the O-ring and transmission fluid filter from the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - E

<Added>
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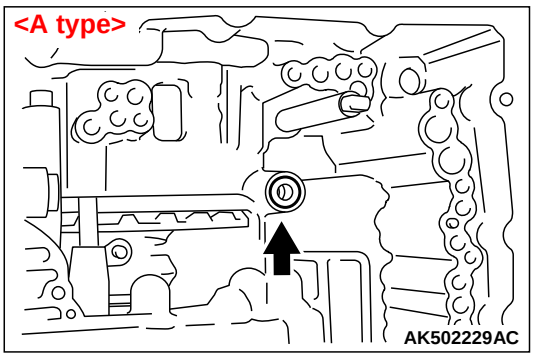


31.Remove the lip seal from the transaxle case.

<Added>
Insert the Attached sheet 23 (1/5) - F

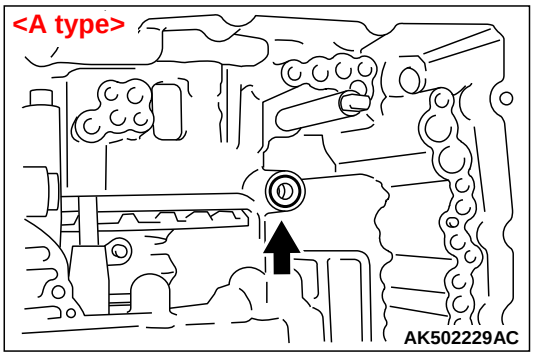
REASSEMBLY SERVICE POINT

⚠ CAUTION

- **Do not re-use the lip seal.**
- **Apply transmission fluid or vaseline when installing the lip seal.**

1. Install the lip seal on the transaxle case.

<Added>
<A type>

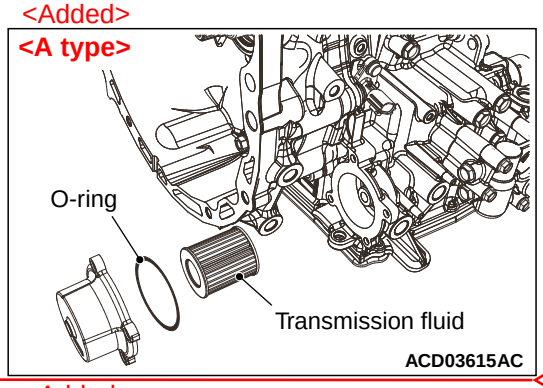


<Added>
Insert the Attached sheet 23 (1/5) - F

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

14. Install the O-ring and transmission fluid filter on the transaxle case.

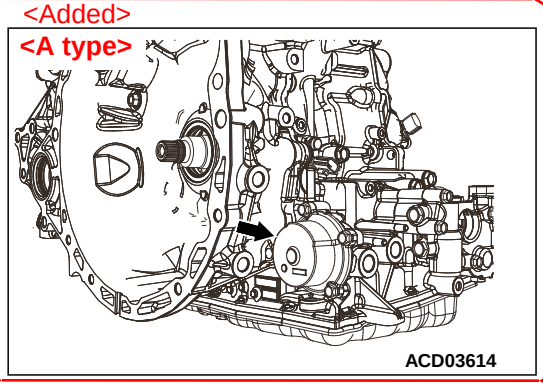
<Added>
<A type>



<Added>
Insert the Attached sheet 23 (1/5) - E

<Added>
<A type>

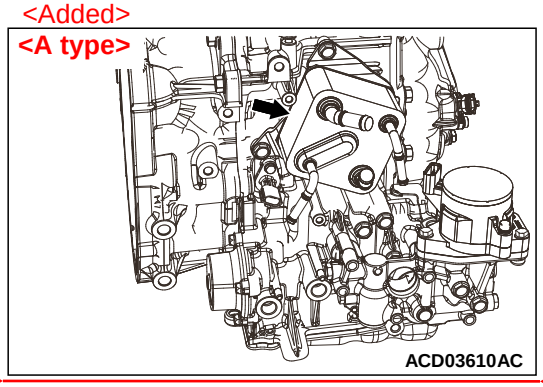
15. Install the filter cover on the transaxle case, and tighten the fastening bolts to the specified torque of 5.1 N·m (45 in-lb).



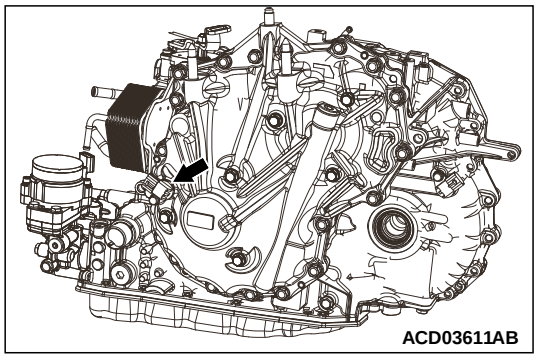
<Added>
Insert the Attached sheet 23 (1/5) - D

<Added>
<A type>

16. Install the transmission fluid cooler on the transaxle case, and tighten the fastening bolts to the specified torque of 4.2 N·m (37 in-lb).



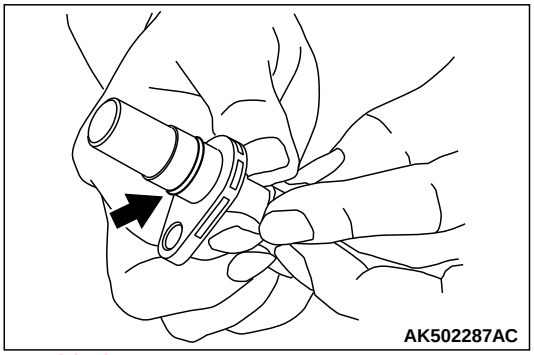
<Added>
Insert the Attached sheet 23 (1/5) - C


ACD03611AB

21. Install the primary pulley speed sensor on the side cover, and tighten the fastening bolts to the specified torque of 5.9 N·m (52 in-lb).

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

22. Install the O-ring on the turbine speed sensor.


AK502287AC

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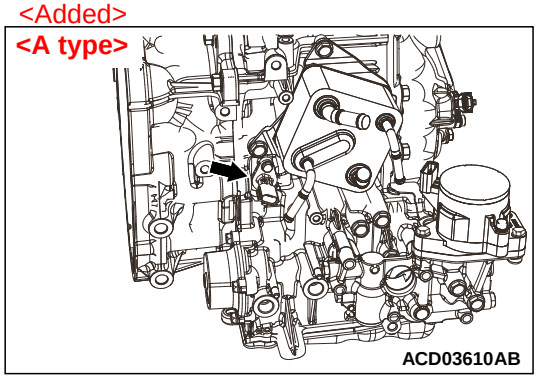
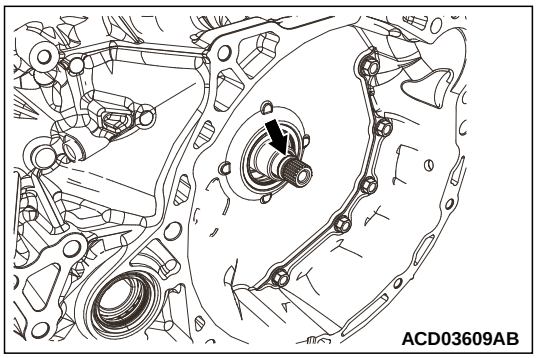

ACD03610AB

23. Install the turbine speed sensor on the transaxle case, and tighten the fastening bolts to the specified torque of 5.9 N·m (52 in-lb).

<Added>
Insert the Attached sheet 23 (1/5) - B

<Added>
Insert the Attached sheet 23 (2/5) - I

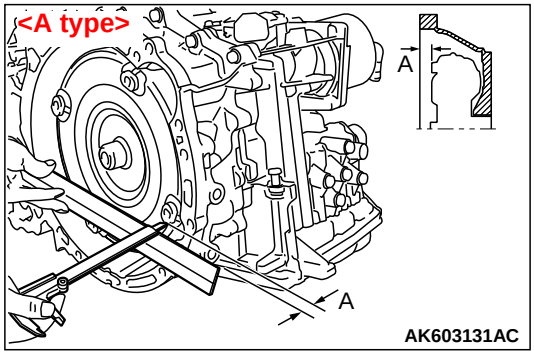

ACD03609AB

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

24. Install the O-ring on the input shaft.

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

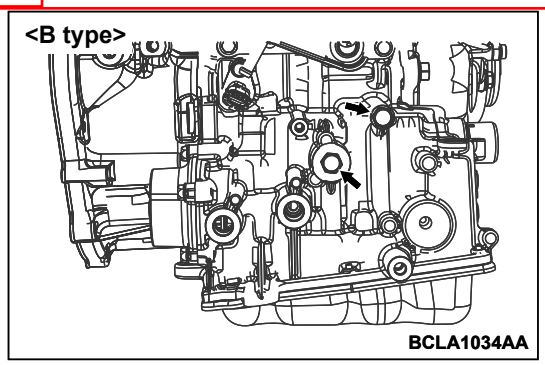
25. Install the torque converter on the transaxle, and measure the size (A) to check if it meets the standard value.
    Standard size (A): 13 mm (0.5 inch)

<Added>


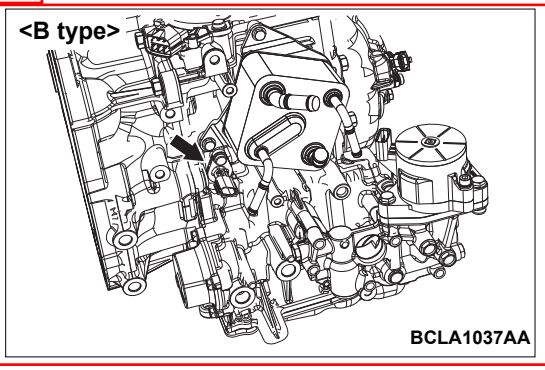
AK603131AC

<Added>
Insert the Attached sheet 23 (1/5) - G

A


<B type>
BCLA1034AA

B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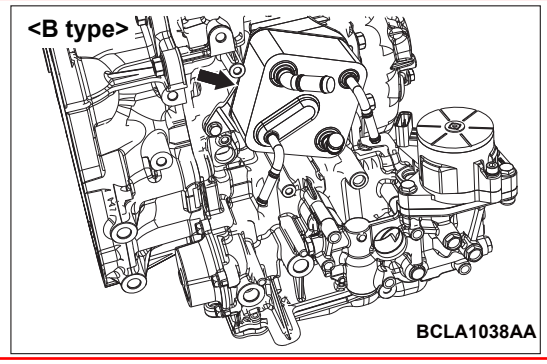
C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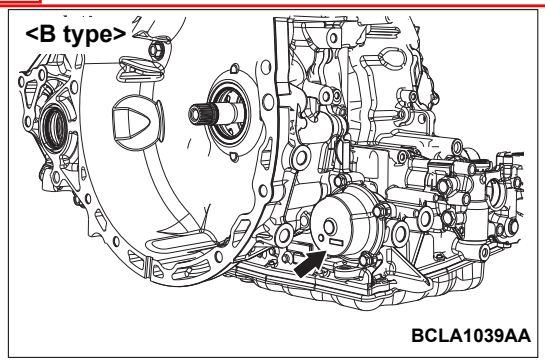
BCLA1038AA

D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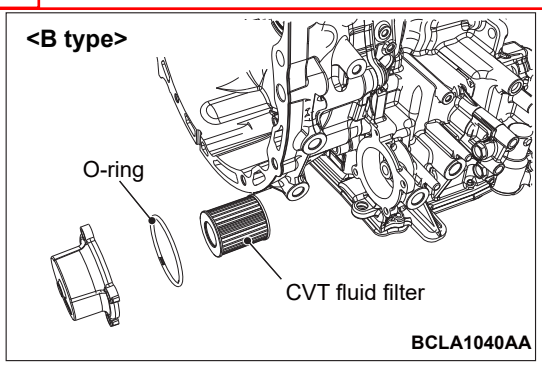
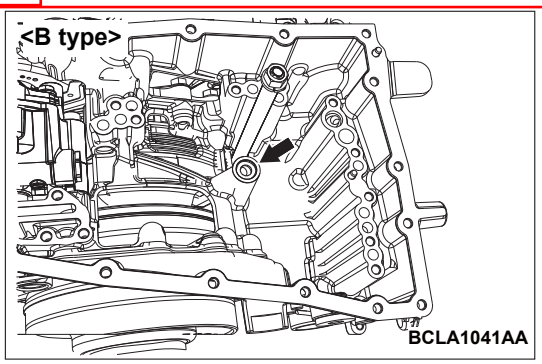
E


<B type>
O-ring
CVT fluid filter
BCLA1040AA

F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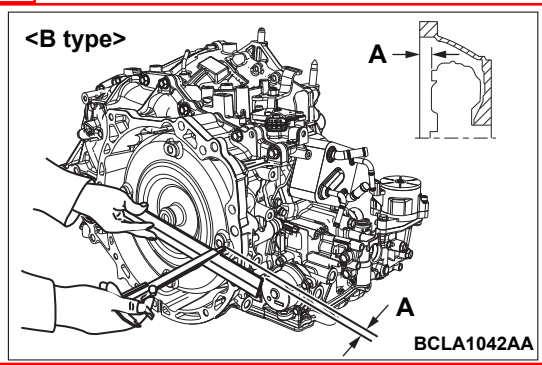
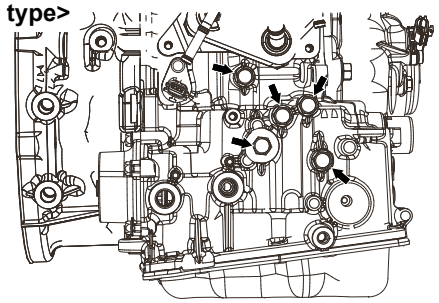
G


<B type>
A
A
BCLA1042AA

H

<A type>



BCLA1035AA

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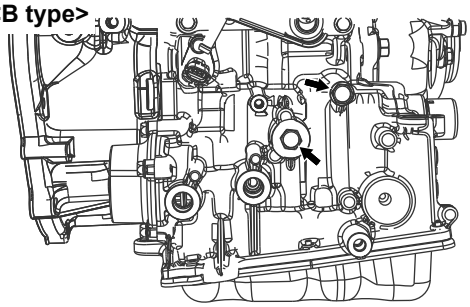
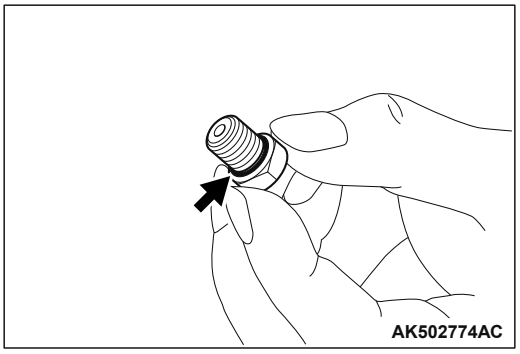


BCLA1034AB

NOTE: The number of plugs differs depending on the type of CVT.
- A type: 5
- B type: 2

9-1. Remove the plug from the transaxle case, and detach the O-ring from the plug.

I

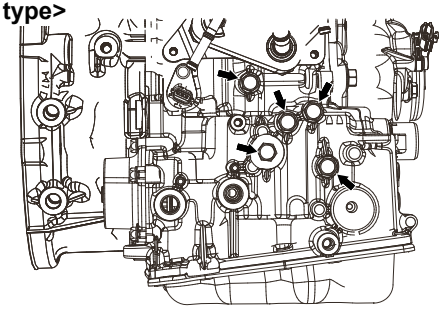


AK502774AC

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply transmission fluid when installing the O-ring.**

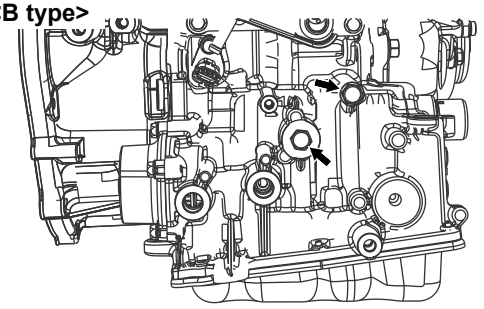
23-1.Install the O-ring on the plug.

<A type>



BCLA1035AA

<B type>

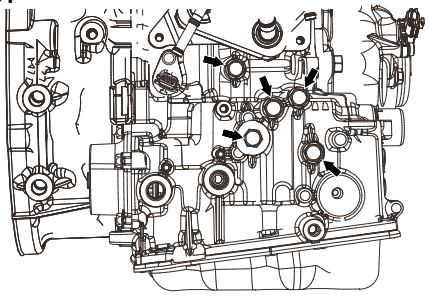


BCLA1034AB

23-2.Fasten the plug on the transaxle case to the specified torque of 7.5 N·m (66 in-lb).

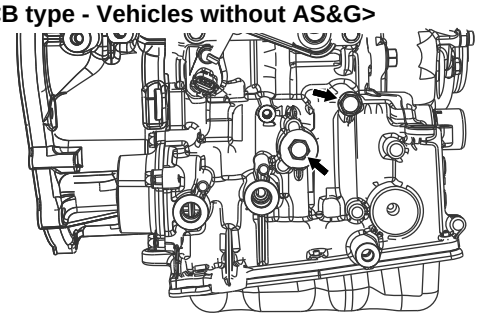
J

<A type - Vehicles without AS&G>



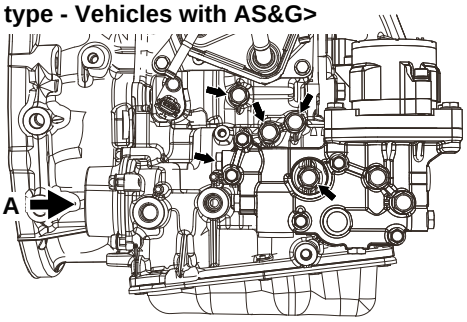
BCLA1035AB

<B type - Vehicles without AS&G>

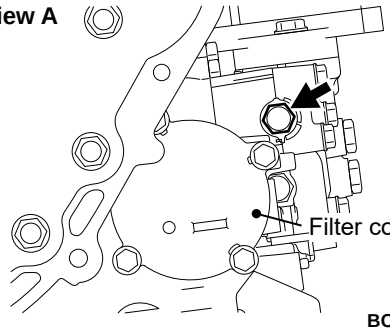


BCLA1034AD

<A type - Vehicles with AS&G>

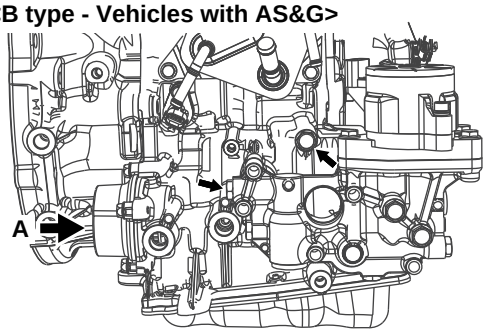


View A

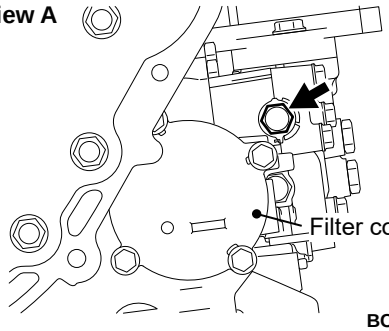


BCLA1032AB

<B type - Vehicles with AS&G>



View A

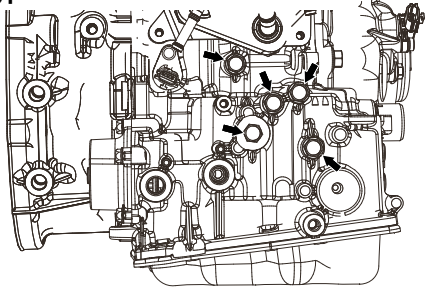


BCLA1033AD

K

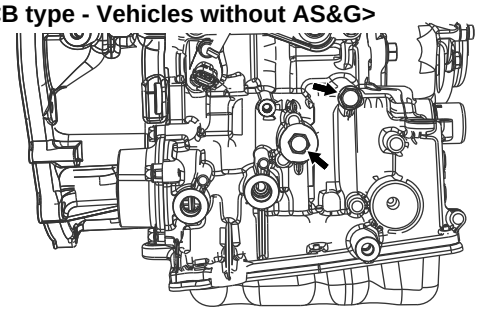
NOTE: The number of plugs differs depending on the type of CVT.
- A type: 5
- B type: 2

<A type - Vehicles without AS&G>



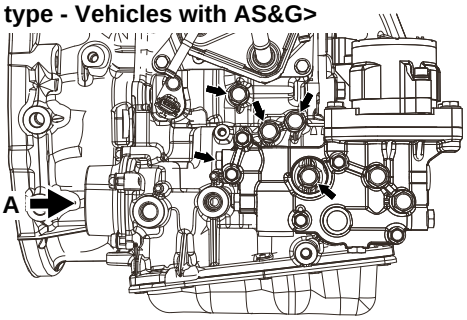
BCLA1035AB

<B type - Vehicles without AS&G>

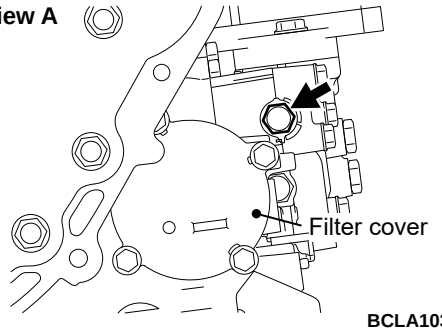


BCLA1034AD

<A type - Vehicles with AS&G>

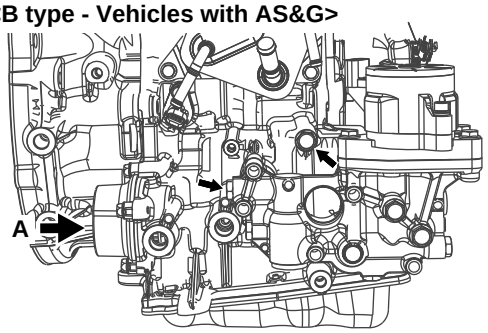


View A

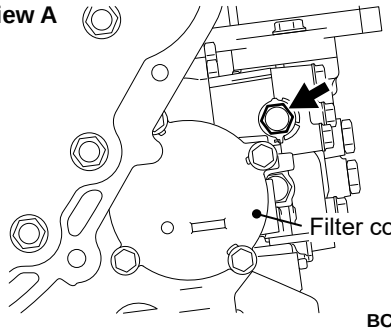


BCLA1032AB

<B type - Vehicles with AS&G>



View A

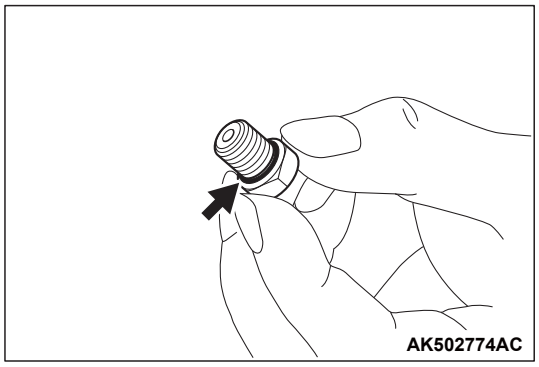


BCLA1033AD

9-1. Remove the plug from the transmission case, and detach the O-ring from the plug.

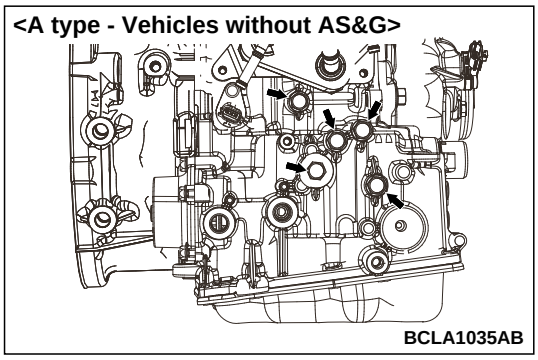
L

⚠ CAUTION
- **Do not re-use the O-ring.**
- **Apply CVT fluid when installing the O-ring.**

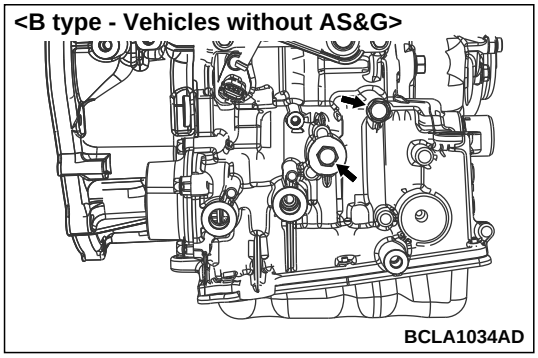


23-1.Install the O-ring on the plug.

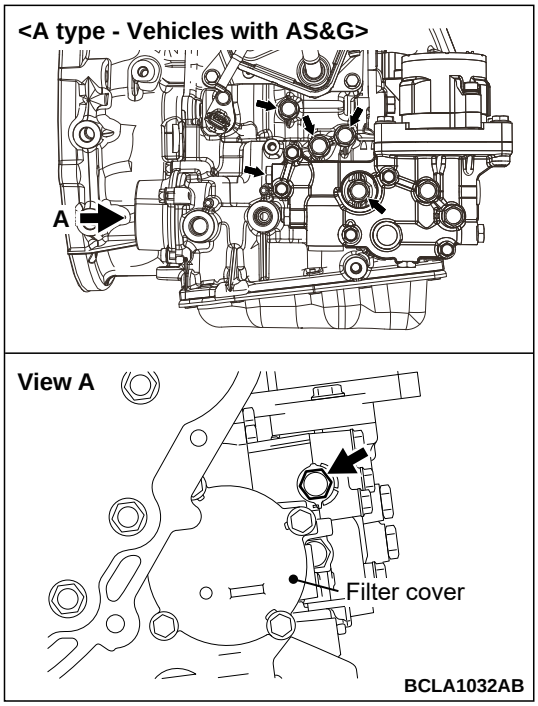
<A type - Vehicles without AS&G>



<B type - Vehicles without AS&G>



<A type - Vehicles with AS&G>



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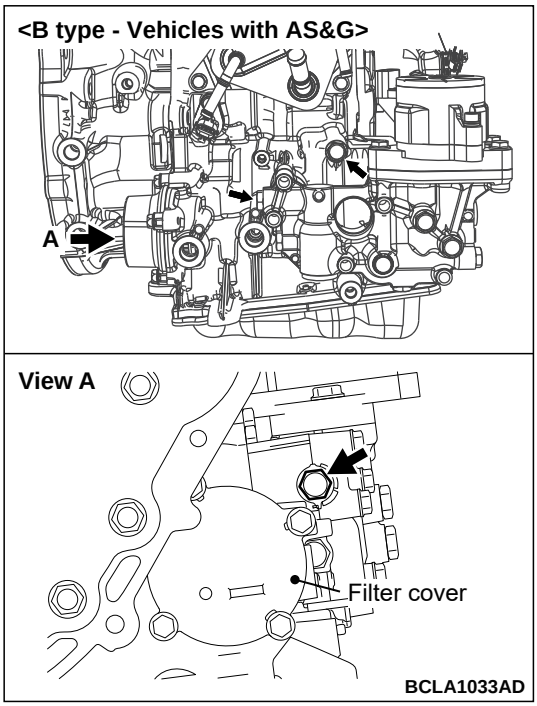

23-2.Fasten the plug on the transmission case to the specified torque of 7.5 N·m.