SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : Addition	ISSUE NO. : MSB-15EXML23-001	DATE : 2015-11-20
SUBJECT : Addition of FLUID DETERIORATION LEVEL ERASING PROCEDURE in the maintenance points after the CVT fluid exchange		<DESTINATION/MODEL> All destinations <M/Y> ALL
GROUP : Gr:23(Automatic transmission)		

1. Description :

Please refer to the attached document for the information about the addition of mention in the applicable service manual. This service bulletin is for the vehicles with the following transmissions.

- F1CJA/W1CJA
- F1CJB/W1CJB

2. Affected service manuals :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document.

- Attached sheets from 6 to 8 are for the countries except for MMNA/USTP
- Attached sheets from 9 to 11 are for MMNA/USTP

Attached sheet 1

From oversea market

<EUROPE/RUSSIA>

Vehicle name	Model code	Transmission model		Contents
		2WD	4WD	
LANCER	CX0A	F1CJA	W1CJA	Attached sheet 6
LANCER SPORTBACK	CY0A		—	
ASX/OUTLANDER SPORT	GA0W		W1CJA	Refer to 10MY OUTLANDER
OUTLANDER	CW0W			Attached sheet 6
	GF0W			Attached sheet 7
MIRAGE/SPACE STAR	A00A	F1CJB	—	Attached sheet 8
ATRAGE	A13A			

<AUSTRALIA/NEW ZEALAND>

Vehicle name	Model code	Transmission model		Contents
		2WD	4WD	
LANCER	CX0A	F1CJA	—	Attached sheet 6
LANCER SPORTBACK	CY0A			
ASX	GA0W		W1CJA	
OUTLANDER	CW0W			
	GF0W			Attached sheet 7
MIRAGE	A00A	F1CJB	—	Attached sheet 8
ATRAGE	A13A			

<GENERAL EXPORT/GCC>

Vehicle name	Model code	Transmission model		Contents
		2WD	4WD	
LANCER/LANCER EX	CX0A	F1CJA	W1CJA	Attached sheet 6
DELICA D:5	CV0W		—	
ASX/OUTLANDER SPORT	GA0W		W1CJA	
OUTLANDER	CW0W			
	GF0W			Attached sheet 7
MIRAGE	A00A	F1CJB	—	Attached sheet 8
ATRAGE/MIRAGE G4	A13A			

<MMNA>

Vehicle name	Model code	Transmission model		Contents
		FWD	AWD	
LANCER	CX0A	F1CJA	W1CJA	Attached sheet 9
LANCER SPORTBACK	CY0A		—	
ASX/OUTLANDER SPORT/RVR	GA0W		W1CJA	
OUTLANDER	CW0W			
	GF0W			Attached sheet 10
MIRAGE	A00A	F1CJB	—	Attached sheet 11
ATRAGE	A13A			

<Added>

FLUID DETERIORATION LEVEL ERASING PROCEDURE

1. Turn the ignition switch to the "LOCK" (OFF) position. Then, connect M.U.T.-III to the diagnosis connector.
2. Turn the ignition switch to the "ON" position.
3. Use the M.U.T.-III special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4. Turn the ignition switch to the "LOCK" (OFF) position.

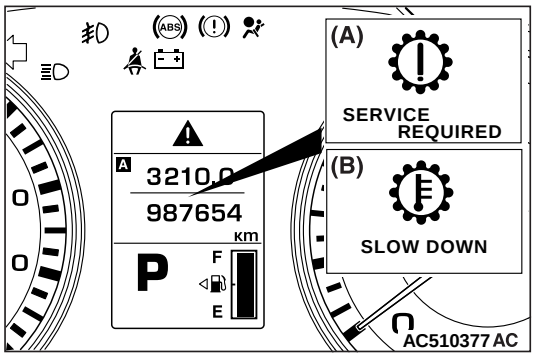
LEARNING PROCEDURES

Step	Item		Content
1	Learning procedure for engine idling		Refer to GROUP 00 "Learning Procedures for Engine Idling ."
2	Fluid cooling		Park the vehicle in a cooler place, stop the engine, and leave the vehicle until the CVT fluid temperature is lowered to the ambient temperature.
3	Learning in cold engine condition	(1) Fluid temperature measurement	Use M.U.T.-III to measure the CVT fluid temperature. (Check that the fluid temperature is the same as the ambient temperature.)
		(2) Line pressure & shift control learning	Let the engine idle for 20 seconds in the D range.
		(3) Direct control learning	Run the vehicle at 40 to 50 km/h for 5 second in the D range with steady operation.
4	Learning in hot engine condition	(1) Fluid temperature adjustment	⚠ CAUTION **When the CVT fluid temperature does not increase to 80°C in cold region, raise the fluid temperature to a maximum extent.** Raise the CVT fluid temperature to 80°C.
		(2) Direct control learning	The same procedure as for "Learning in cold engine condition"

DIAGNOSTIC FUNCTION

M1231219000156

WARNING INDICATOR



When any malfunction occurs in the items related to the CVT system, which are described below, the symbol (A) continues being displayed in the information screen in the multi information display.

Check if the diagnosis code is set when the symbol (A) continues being displayed in the information screen in the multi information display.

NOTE: When the symbol (B) is displayed in the information screen in the multi information display, the CVT fluid temperature is high. (Symbol (B) is turned on when the fluid temperature is approximately 135 ℃ or higher and turned off automatically when the fluid temperature drops below approximately 132 ℃.)

HOW TO READ DIAGNOSIS CODE

Use M.U.T.-III to read the diagnosis code (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points).

<Added>

FLUID DETERIORATION LEVEL ERASING PROCEDURE

1.Turn the ignition switch to the "LOCK" (OFF) position. Then, connect M.U.T.-III to the diagnosis connector.
2.Turn the ignition switch to the "ON" position.
3.Use the M.U.T.-III special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4.Turn the ignition switch to the "LOCK" (OFF) position.

LEARNING PROCEDURES

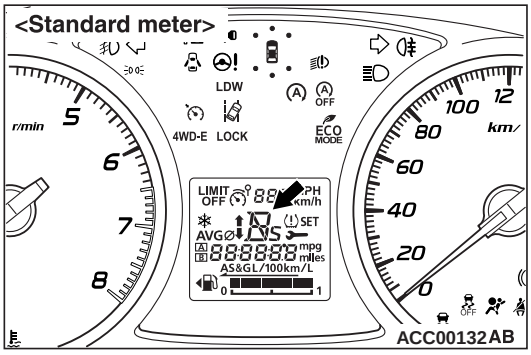
Steps	Item		Contents
1	Learning procedure for engine idling		Refer to GROUP 00 "Learning Procedures for Engine Idling ."
2	Fluid cooling		Park the vehicle in a cooler place, stop the engine, and leave the vehicle until the CVT fluid temperature is lowered to the ambient temperature.
3	Learning in cold engine condition	(1) Fluid temperature measurement	Use M.U.T.-III to measure the CVT fluid temperature. (Check that the fluid temperature is the same as the ambient temperature.)
		(2) Line pressure & shift control learning	Let the engine idle for 20 seconds in the D range.
		(3) Direct control learning	Run the vehicle at 40 to 50 km/h for 5 seconds in the D range with steady operation.
4	Learning in hot engine condition	(1) Fluid temperature adjustment	⚠ **CAUTION** **When the CVT fluid temperature does not increase to 80°C in cold region, raise the fluid temperature to a maximum extent.** Raise the CVT fluid temperature to 80°C.
		(2) Direct control learning	The same procedure as for "Learning in cold engine condition"

DIAGNOSTIC FUNCTION

M1231219000338

WARNING INDICATOR

<STANDARD METER>



If a malfunction occurs in the CVT system, any of "R", "N", "D", "Ds", "L" or "A" will flash (one flash per two seconds) on the selector lever position indicator in the multi-information display.

NOTE:

- *The selector lever position indicator "P" does not flash when a malfunction occurs in the CVT system.*
- *When the system is normal, the selector lever position indicator "A" does not illumination. Only when a malfunction occurs in the indicator switch, the indicator will flash.*

If the selector lever position indicator flashes rapidly (one flash per one second), the CVT fluid temperature is too high. (Illuminates when the fluid temperature is approximately 138 ℃ or higher, and goes out automatically when the fluid temperature drops below approximately 135 ℃.)

Steps	Item	Contents
5	Select control learning	1. Start the engine, and move the selector lever from the "N" range to the "D" range and from the "N" range to the "R" range (two or three times each). If there is no shift shock, the learning is complete. 2. If the shift shock is large, move the selector lever from the "N" range to the "D" range and from the "N" range to the "R" range (up to 10 times each) and the learning is complete. ⚠ CAUTION **When moving the selector lever from the "N" range to the "D" range, and from the "N" range to the "R" range, hold for 5 seconds or more in each range.**
6	Shift control learning 1	1. Check that the idle neutral active status (data list item No. 40) can be monitored by using the M.U.T.-III. 2. Start the engine and wait for at least one minute. 3. Press the AS&G OFF switch to turn off the AS&G system <vehicles with AS&G system>. 4. Turn off the air conditioner. 5. While the selector lever is at the "D" range, drive the vehicle at 10 km/h or more. Then, stop the vehicle with the selector lever at the "D" range. 6. Depress the brake pedal to activate the idle neutral control, and wait for 30 seconds or more. 7. Carry out Step 5 and Step 6 again to complete learning.
7	Shift control learning 2	1. Start the engine. 2. Turn off the air conditioner. 3. Accelerate the vehicle to 60km/h at D range, meanwhile to keep accelerator pedal opening angle is 10% to 15%[*1]. Depress the brake pedal to decelerate and stop the vehicle. Turn the ignition switch to the LOCK (OFF) position to stop the engine and wait for 5 seconds. 4. If there is no shift shock, the learning at Step 3 is complete. If the shift shock is large, repeat Step 2 and Step 3 (up to 5 times). 5. Accelerate the vehicle to 60km/h at D range, meanwhile to keep accelerator pedal opening angle is 25% to 50%[*1] . Drive at a constant speed for 5 seconds, and depress the brake pedal to decelerate and stop the vehicle. Turn the ignition switch to the LOCK (OFF) position to stop the engine and wait for 5 seconds. 6. If there is no shift shock, the learning at Step 5 is complete. If the shift shock is large, repeat Step 2 and Step 5 (up to 10 times) and the learning is complete.

*NOTE: [*1]Reference: Data list item No.15 "Accelerator pedal depressing angle" on M.U.T.-III.*

<Added>

FLUID DETERIORATION LEVEL ERASING PROCEDURE

1.Turn the ignition switch to the "LOCK" (OFF) position. Then, connect M.U.T.-III to the diagnosis connector.
2.Turn the ignition switch to the "ON" position.
3.Use the M.U.T.-III special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4.Turn the ignition switch to the "LOCK" (OFF) position.

Malfunctioning Item	Control Default During Malfunction
Lock-up/select switching solenoid valve	Switches the lock-up/select switching solenoid valve OFF to release lock-up.
Back-up power supply	If the control memory back-up power supply from the battery is not supplied to TCM, limits the engine torque to protect the transaxle main body. After the normal power is supplied, turning the key switch from "LOCK" (OFF) to "ON" once resumes the normal status.
Paddle shift switch <Vehicles with paddle shift>	Prohibits the paddle shift operation.
Shift switch assembly	Prohibits the sport mode operation.

ROAD TEST

M1231207800553

Steps	Conditions for test/operation	Test/Operation	Judgment standard	Check item	Diagnostic trouble code number	Reference for checking procedure in case of error
1	Ignition switch: LOCK (OFF)	Ignition switch (1) ON	Data list No.6 (1) Battery voltage	ECU power supply	–	Communication with the scan tool is not possible.

<Added>

FLUID DETERIORATION LEVEL ERASING PROCEDURE

1.Turn the ignition switch to the "LOCK" (OFF) position. Then, connect scan tool (M.U.T.-III) to the data link connector.
2.Turn the ignition switch to the "ON" position.
3.Use the scan tool (M.U.T.-III) special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4.Turn the ignition switch to the "LOCK" (OFF) position.

<Added>

Attached sheet 10

FLUID DETERIORATION LEVEL ERASING PROCEDURE

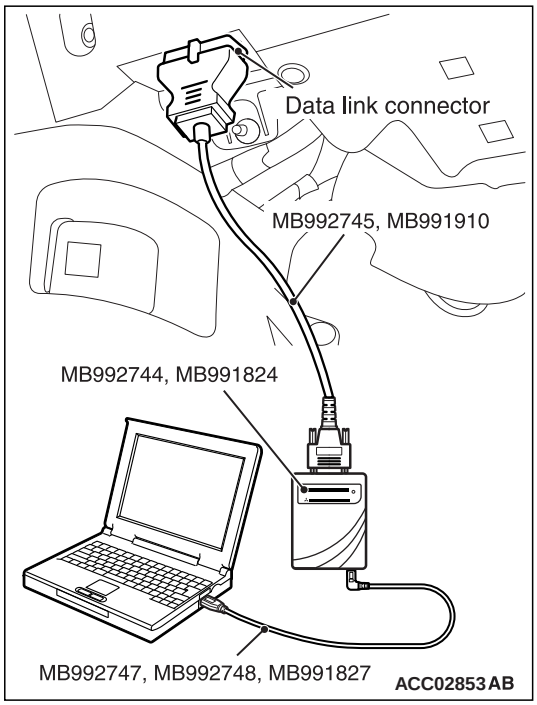
1.Turn the ignition switch to the "LOCK" (OFF) position. Then, connect scan tool (M.U.T.-III) to the data link connector.
2.Turn the ignition switch to the "ON" position.
3.Use the scan tool (M.U.T.-III) special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4.Turn the ignition switch to the "LOCK" (OFF) position.

Malfunctioning Item	Control Default During Malfunction
Paddle shift switch <Vehicles with paddle shift>	Prohibits the paddle shift operation.

ROAD TEST

M1231207800575

Steps	Conditions for test/operation	Test/Operation	Judgment standard	Check item	DTC No.	Reference for checking procedure in case of error
1	Ignition switch: LOCK (OFF)	Ignition switch (1) ON	Data list No. 6 (1) System voltage	ECU power supply	–	Communication with the scan tool (M.U.T.-III) is not possible.
2	Ignition switch: ON Engine: Stopped	Selector lever position (1) P (2) R (3) N (4) D (5) Ds <Vehicles without paddle shift> (6) L	Data list No. 49 (1) P (2) R (3) N (4) D (5) Ds/L (6) Ds/L	Transmission range switch	P0705	Malfunction of transmission range switch
			Data list No. 42 (1) ON (2) OFF (3) OFF (4) OFF (5) OFF (6) OFF			
			Data list No. 43 (1) OFF (2) ON (3) OFF (4) OFF (5) OFF (6) OFF			
			Data list No. 44 (1) OFF (2) OFF (3) ON (4) OFF (5) OFF (6) OFF			
			Data list No. 45 (1) OFF (2) OFF (3) OFF (4) ON (5) OFF (6) OFF			
			Data list No. 46 (1) OFF (2) OFF (3) OFF (4) OFF (5) ON (6) ON			
			Data list No. 51 <Vehicles with paddle shift> (1) OFF (2) OFF (3) OFF (4) OFF (5) ON (6) ON	Ds position switch	P071B	Malfunction of Ds position switch



⚠ CAUTION

To prevent damage to scan tool (M.U.T.-III), always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool (M.U.T.-III).

1. Connect scan tool (M.U.T.-III) to the data link connector.
2. Turn the ignition switch to the "ON" position.
3. Select "CAN bus diagnosis" from the start-up screen.
4. When the vehicle information is displayed, confirm that it matches the vehicle whose CAN bus lines will be diagnosed.
   - If they match, go to step 8.
   - If not, go to step 5.
5. Select the "view vehicle information" button.
6. Enter the vehicle information and select the "OK" button.
7. When the vehicle information is displayed, confirm again that it matches the vehicle whose CAN bus lines will be diagnosed.
   - If they match, go to step 8.
   - If not, go to step 5.
8. Select the "OK" button.
9. When the optional equipment screen is displayed, choose the one which the vehicle is fitted with, and then select the "OK" button.

ROAD TEST

M1231207800616

Step	Conditions for test/operation	Test/Operation	Judgment standard	Check item	Diagnostic trouble code No.	Reference for checking procedure in case of error
1	Ignition switch: LOCK (OFF) position	Ignition switch (1) ON	Data list No. 6 (1) System voltage	ECU power supply	–	Malfunction of the system power supply (low voltage)
			Data list No. 7 (1) System voltage	Solenoid valve drive voltage	P1607	Malfunction of the solenoid power supply (low voltage)

<Added>

FLUID DETERIORATION LEVEL ERASING PROCEDURE

1.Turn the ignition switch to the "LOCK" (OFF) position. Then, connect scan tool (M.U.T.-III) to the data link connector.
2.Turn the ignition switch to the "ON" position.
3.Use the scan tool (M.U.T.-III) special function to execute "CVT oil degradation level (item No.1: Clear CVT oil degradation level)".
4.Turn the ignition switch to the "LOCK" (OFF) position.