

SUBJECT:			No:	TSB-15-23A-002
CVT HYDRAULIC PRESSURE TEST PROCEDURE				February, 2015
– SEF	RVICE MANUAL REV	VISION	MODE	L: See Below
CIRCULATE TO:	[] GENERAL MANAGER	[] PARTS MANAGER [X] TECHNICIAN		[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[] WARRANTY PROCESSOR [] SALES MANAGER		[] SALES MANAGER

PURPOSE

This bulletin corrects the hydraulic pressure settings and updates the special tools used in the CVT hydraulic pressure test in the indicated service manuals.

AFFECTED VEHICLES

- 2008 2015 Lancer
- 2009 2015 Lancer Sportback
- 2008 2015 Outlander
- 2011 2014 Outlander Sport / RVR

AFFECTED SERVICE MANUALS

- 2008 2010 Lancer, Group 23A CVT –-> Diagnosis –-> Hydraulic Pressure Test Special Tools
- 2009 2010 Lancer Sportback, Group 23A CVT –-> Diagnosis –-> Hydraulic Pressure Test Special Tool
- 2011 2015 Lancer / Lancer Sportback, Group 23A CVT –-> Diagnosis –-> Hydraulic Pressure Test Special Tools
- 2008 2015 Outlander, Group 23A CVT –-> Diagnosis –-> Hydraulic Pressure Test Special Tools
- 2011 2014 Outlander Sport / RVR, Group 23A CVT –-> Diagnosis –-> Hydraulic Pressure Test Special Tools

SPECIAL TOOLS

The following essential tool supercession from MMC's part number to MMNA's part number is not shown in this bulletin. Please use the MMNA part number where this bulletin advises the MMC part number.

ΤοοΙ	Tool number and name	Supercession	Application	
	MD998330 Oil Pressure Gauge (435 PSI)	MLR-9873 Assembly, Pressure Gauge (2000 PSI)	Measurement of hydraulic pressure	

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Continued

The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website (www.mitsubishitechinfo.com). (4220) Please make the changes indicated to the:

- 2008 2010 Lancer service manual,
- 2009 2010 Lancer Sportback service manual,
- 2011 2014 Lancer / Lancer Sportback service manual,
- 2008 2013 Outlander service manual,
- 2011 2014 Outlander Sport / RVR service manual,
- Group 23A CVT --> Diagnosis --> Hydraulic Pressure Test

HYDRAULIC PRESSURE TEST

A CAUTION

The transmission fluid temperature should be between 70 - 80°C (158 - 176°F) during the test.

- 1. Check the transmission fluid level and temperature. Check engine coolant temperature.
- Transmission fluid level: "HOT" mark on the dipstick
- Transmission fluid temperature: 70 80°C (158 176°F)
- Engine coolant temperature: 80 100°C (176 212°F)
- 2. Raise the vehicle so that the wheels are free to turn.
- Connect the special tools (3.0 MPa (427 psi) eil pressure gauge [MD998330] and joint [MD998331, MB992127]) to
- each pressure discharge port.
 NOTE:
 OR: 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.
- Check that there are no leaks around the special tool port adapters.

A WARNING

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

- Measure the hydraulic pressure at each port under the conditions given in the standard hydraulic pressure table, and check that the measured values are within the standard value ranges.
- If the pressure is not within the standard value, stop the engine and refer to the hydraulic pressure test diagnosis table.
- 8. Remove the O-ring from the port plug and replace it.
- Remove the special tool, and install the plugs to the hydraulic pressure ports.
- 10.Start the engine and check that there are no leaks around the plugs.

<Correct> [

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Connect the special tools (3.0 MPa (435 psi) oil pressure gauge [MD998330], 15MPa (2,715 psi) power steering oil pressure gauge* [MB990662*] and joint [MD998331, MB992127]) to each pressure discharge port. NOTE:*: Before measuring the primary pressure or the line pressure with the transmission range at P or N, replace the gauge of the power steering oil pressure gauge (MB990662) with the gauge of the oil pressure gauge (MD998330).



Please make the changes indicated to the 2015 Lancer / Lancer Sportback service manual, Group 23A – CVT ––> Diagnosis ––> Hydraulic Pressure Test

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HYDRAULIC PRESSURE TEST

A CAUTION

The transmission fluid temperature should be between 70 - 80°C (158 - 176°F) during the test.

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- Transmission fluid level: "HOT" mark on the dipstick
- Transmission fluid temperature: 70 80°C (158 176°F)
- Engine coolant temperature: 80 100°C (176 212°F)
- 2. Raise the vehicle so that the wheels are free to turn.
- Connect the special tools (3.0 MPa (427-ps)) oil pressure gauge [MD998330], 15 MPa (2,175 psi) Rower steering oil pressure gauge* [MB990662*] and joint [MD998331, MB992127]) to each pressure discharge port.

NOTE: *: Before measuring the primary pressure or the line pressure with the transmission range at P or N replace the gauge of the power steering oil pressure gauge (MB990662) with the gauge of the oil pressure gauge (MD998330).

435 psi

<Correct>

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.
- Check that there are no leaks around the special tool port adapters.

A WARNING

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

- Measure the hydraulic pressure at each port under the conditions given in the standard hydraulic pressure table, and check that the measured values are within the standard value ranges.
- If the pressure is not within the standard value, stop the engine and refer to the hydraulic pressure test diagnosis table.
- 8. Remove the O-ring from the port plug and replace it.
- Remove the special tool, and install the plugs to the hydraulic pressure ports.
- 10.Start the engine and check that there are no leaks around the plugs.

Please make the changes indicated on page 4 and 5 to the 2014 – 2015 Outlander service manual, Group 23A – CVT ––> Diagnosis ––> Hydraulic Pressure Test

HYDRAULIC PRESSURE TEST

A CAUTION

NOTE:

The transmission fluid temperature should be between 70 – 80°C (158 – 176°F) during the test.

- 1. Check the transmission fluid level and temperature. Check engine coolant temperature.
- Transmission fluid level: "HOT" mark on the dipstick
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DR: Torque converter output pressure port

PRI: Primary pressure port PL: Line pressure port

FWD: Forward clutch pressure port REV: Reverse brake pressure port

 Connect the special tools (3.0 MPa (427 psi) oil pressure gauge [MD998330] and joint [MD998331, MB992127]) to each pressure discharge port.

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5. Check that there are no leaks around the special tool port adapters.
A WARNING
For safety, operators must not stand in front of and at the rear of the vehicle during this test.
6. Measure the hydraulic pressure at each port under the conditions given in the standard hydraulic pressure table,

4. Restart the engine.

- conditions given in the standard hydraulic pressure table, and check that the measured values are within the standard value ranges.
- If the pressure is not within the standard value, stop the engine and refer to the hydraulic pressure test diagnosis table.
- 8. Remove the O-ring from the port plug and replace it.
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- 10.Start the engine and check that there are no leaks around the plugs.

Connect the special tools (3.0 MPa (435 psi) oil pressure gauge [MD998330], 15MPa (2,715 psi) power steering oil pressure gauge* [MB990662*] and joint [MD998331, MB992127]) to each pressure discharge port. NOTE:*: Before measuring the primary pressure or the line pressure with the transmission range at P or N, replace the gauge of the power steering oil pressure gauge (MB990662) with the gauge of the oil pressure gauge (MD998330).

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				<correct></correct>	Correct> 5 - 3.2 (73 - 464)		
Measuring conditions		Standard hydraulic pressure MPa (psi)					
Selector lever position	Engine speed	Forward clutch pressure [Pressure at FWD]	Reverse brake pressure [Pressure at REV] < r	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 1.0 (73	0.1 – 1.5 (15 – 218)	
R		0 (0)	0.5 - 1.0 (73 - 145)	0.1 – 1.5 (15 – 218)	0.5 – 1.0 (73 – 145)	0.1 – 1.5 (15 – 218)	
N		0 (0)	0 (0) <incorrect></incorrect>	0.1 1.5 (15 - 218)	0.5 - 1.0 (73 - 145)	0.1 – 1.5 (15 – 218)	
D		0.5 – 1.0 (73 – 145)	0 (0)	0.1 – 1.5 (15 – 218)	015 – 1.0 (73 – 145)	0.1 – 1.5 (15 – 218)	
Ds <vehicles without paddle shift></vehicles 	1	0.5 – 1.0 (73 – 145)	0 (0)	0.1 – 1.5 (15 – 218)	0.5 - 1.0 (73 - 145)	0.1 – 1.5 (15 – 218)	
L	1	0.5 – 1.0 (73 – 145)	0 (0)	0.1 – 1.5 (15 – 218)	0.5 – 1.0 (73 – 145)	0.1 – 1.5 (15 – 218)	

0.5 - 3.2 (73 - 464) <Correct> Please make the changes indicated to the:

2008 - 2010 Lancer service manual,

2009 - 2010 Lancer Sportback service manual,

2011 - 2014 Lancer / Lancer Sportback service manual,

2008 - 2015 Outlander service manual,

MB990662

2011 - 2014 Outlander Sport / RVR service manual,

Group 23A - CVT --> Special Tools

, 435 psi <Added> Tool Tool number and name Supersession Application MD998330 Ş MD998330-01 Hydraulic pressure measurement a: MD998331 Oil pressure gauge (3.0 MPa) a: Joint Ja AC103525AD > $\langle \epsilon$ MB992127 9 Joint MB990662 MB990662-01 Power steering oil pressure gauge (15 MPa, 2,175 psi)

<Added>

Please make the changes indicated to the 2015 Lancer / Lancer Sportback service manual, Group 23A – CVT ––> Special Tools.

Tool	Tool number and name	Supersession	Application
Actoriza	MD998330 (Includes MD998331) Oil pressure gauge (3.0 MPa, 427 psi).	MD998330-01	Measurement of hydraulic pressure
MB990662	MB990662 Power steering oil pressure gauge (15 MPa, 2,175 psi)	MB990662-01 435 psi <correct></correct>	
	MB992127 Joint	-	
A.	MB995062 Flushing tool	MLR-6906-C or Equivalent	Flushing cooler and tube