

SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN No.: MSB-98E23-503 **Date**: 1999-15-05 <Model> < M/Y>Subject: ADDITION/CORRECTION OF HYDRAULIC (EUR) PRESSURE TEST OF AUTOMATIC COLT/LANCER 96-10 TRANSMISSION (MG) Group: **AUTOMATIC Draft No.: 98-TA-591618** TRANSMISSION INFORMATION **OVERSEAS SERVICE DEPT** T.NITTA - VICE GENERAL MANAGER

1. Description:

This Service Bulletin informs you concerning addition and correction of the hydraulic pressure test of the automatic transmission.

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'96 COLT/LANCER	PWME9511	(English)	23-51, 23-52
Workshop Manual chassis	PWMS9512	(Spanish)	
	PWMF9513	(French)	
	PWMG9514	(German)	
	PWMD9515	(Dutch)	
	PWMW9516	(Swedish)	

(6) Move the selector lever to the R position and carry out the same test again.

Standard value

Stall speed: 2,100-2,600 r/min

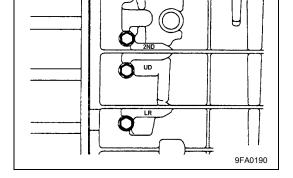
TORQUECONVERTER STALL TEST JUDGEMENT RESULTS

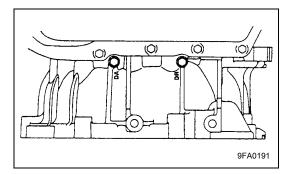
- a. Stall speed is too high in both D and R ranges
 - Low line pressure
 - Low & reverse brake slippage
- b. Stall speed is too high in D range only
 - Underdrive clutch slippage
- c. Stall speed is too high in R range only
 - Reverse clutch slippage
- d. Stall speed is too low in both D and R ranges
 - Malfunction of torque converter
 - Insufficient engine output

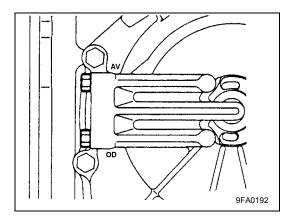
HYDRAULIC PRESSURE TEST

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- (1) Warm up the engine until the automatic transmission fluid temperature is 80-100°C.
- (2) Jack up the vehicle so that the wheels are free to turn.
- (3) Connect the special tools (2,942-kPa oil pressure gauge [MD998330] and joints [MD998332, MD998900] to each pressure discharge port.
- (4) 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.
- (5) If a value is outside the standard range, correct the problem while referring to the hydraulic pressure test diagnosis table.







<Added>

NOTE

2ND: Second brake pressure port

UD: Under drive clutch pressure port

LR: Low & reverse brake pressure port

DR: Torque converter pressure port

DA: Damper clutch apply pressure port

RD: Reverse clutch pressure port

OD: Overdrive clutch pressure port

STANDARD HYDRAULIC PRESSURE TEST

Measurements condition			Standard hydraulic pressure kPa					
Selector lever position	Shift position	Engine speed (rpm)	Under drive clutch pressure [UD] <added></added>	Reverse clutch pressure [RV] <added></added>	Overdrive clutch pressure [OD] <added></added>	Low and reverse brake pressure [LR] <added></added>	Second brake pressure [2ND] <added></added>	Torque converter pressure [DR] <added></added>
Р	_	2,500	_	-	_	310-390	_	250-390
R	Reverse <incorrect></incorrect>	2,500 <incorrect></incorrect>	_	1,270 – 1,770	_	1,270 – 1,770	_	500-700
N	2,500	\searrow	_	_	-	310-390	_	250-390
orrect> <corr< td=""><td>ect></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></corr<>	ect>							
	1st gear	2,500	1,010- 1,050	_	_	1,010-1,050	_	500-700
2	2nd gear	2,500	1,010- 1,050	-	_	_	1,010-1,050	500-700
3	3rd gear	2,500	590-690	_	590-690	_	_	450-650
D	4th gear	2,500	_	_	590-690	_	590-690	450-650
- <added< td=""><td> > -</td><td>2,500</td><td></td><td>1</td><td></td><td></td><td></td><td>•</td></added<>	> -	2,500		1				•

<Correct> <Correct>

HYDRAULIC PRESSURE TEST DIAGNOSIS TABLE

Trouble symptom	Probable cause				
All hydraulic pressures are high	In correct transmission control cable adjustment				
	Malfunction of the regulator valve				
All hydraulic pressures are low	Incorrect transmission control cable adjustment				
	Malfunction of the oil pump				
	Clogged internal oil filter				
	Clogged external oil filter				
	Clogged oil cooler				
	Malfunction of the regulator valve				
	Malfunction of the relief valve				
	Incorrect valve body installation				
Hydraulic pressure is abnormal in "R" range only	Malfunction of the regulator valve				
	Clogged orifice				
	Incorrect valve body installation				
Hydraulic pressure is abnormal in "3" or "4" range only	Malfunction of the overdrive solenoid valve				
	Malfunction of the overdrive pressure control valve				
	Malfunction of the regulator valve				
	Malfunction of the switch valve				
	Clogged orifice				
	Incorrect valve body installation				