

SERVICE BULLETIN

AFTERSALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE: CORRECTION	ISSUE NO.: MSB-08E27-502	DATE: 2008-01-05	
SUBJECT : DATA LIST REFERENCE TABLE FOR ELECTRONIC CONTROL 4WD		<model> (EUR/RUSSIA) OUTLANDER</model>	<m y=""> 07–08</m>
GROUP : REAR AXLE		(GS45X)(CW0W), LANCER (GS41)(CY0A)	

1. Description:

The data list reference table for the electronic control 4WD has been incorrect in the applicable Workshop Manuals. This Service Bulletin contains the corrected list.

1

2. Applicable Manuals:

See Attachment 1.

3. Corrected Specifications:

See Attachments 2 to 9.

<EUR>

Manual	Pub. No.	Title (Info-ID)	Attachment
2007 OUTLANDER Workshop Manual CD-ROM	CGXE07E1-CD (English) CGXS07E1-CD (Spanish) CGXF07E1-CD (French) CGXG07E1-CD (German)	Data List Reference Table (M274-00-100-03100-01)	Attachment 2–5
2008 OUTLANDER Workshop Manual CD-ROM	CGXE08E2-CD (English) CGXS08E2-CD (Spanish) CGXF08E2-CD (French) CGXG08E2-CD (German)		
2008 LANCER Workshop Manual CD-ROM	CG1E08E2-CD (English) CG1S08E2-CD (Spanish) CG1F08E2-CD (French) CG1G08E2-CD (German)	Data List Reference Table (M274-00-100-05300-02)	Attachment 6–9

<RUSSIA>

Underneath Manual	Underneath Pub. No.	Title (Info-ID)	Attachment
2007 OUTLANDER Workshop Manual CD-ROM	N/A	Data List Reference Table (M274-00-100-03100-01)	Attachment 2–5
2008 OUTLANDER Workshop Manual CD-ROM	N/A		
2008 LANCER Workshop Manual CD-ROM	N/A	Data List Reference Table (M274-00-100-05300-02)	Attachment 6-9

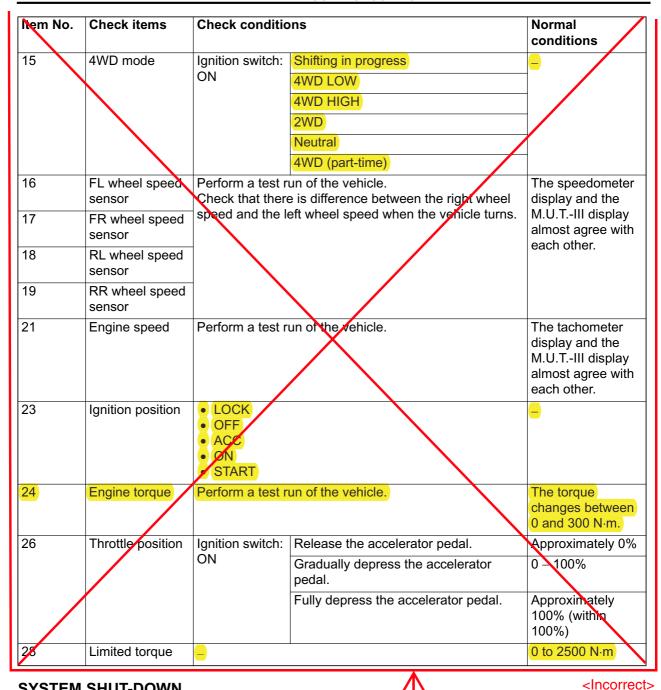
DATA LIST REFERENCE TABLE

M.U.T.-III can read the following items among various control data (input data from each ECU and switch) used by the electronic control 4WD system.

THE SYSTEM IS NORMAL.

<Marking area has been changed.> <Incorrect>

item No.	Check items	Check condition	ons	Normal conditions
01	Vehicle speed (4WD calculated value)	Perform a test run of the vehicle.		The speedopleter display and the M.U.TIII display almost agree with each other.
02	Ignition power supply voltage	Ignition switch:	0 to 16 V	
03	Coupling torque	Ignition switch:	ON	0 to 1200 N·m
04	Coupling current (command value)	Drive mode s Perform a tes	selector: 4WD st run of the vehicle.	The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
05	Coupling current (monitor value)	 Drive mode selector: 4WD Perform a test run of the vehicle. 		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
06	Coupling temperature	Perform a test r	n of the vehicle.	0 to 200°C
07	CAN system (ABS/ASC)	Ignition switch: ON	When ASC-ECU data is correctly received	ОК
			When ASC-ECU data reception error occurs	No reception
08	CAN system (engine)	Ignition switch: ON	When engine-ECU data is correctly received	OK
			When engine-ECU data reception error occurs	No reception
09	CAN system (ETACS)	Ignition switch: ON	When ETACS-ECU data is correctly received	ОК
			When ETACS-ECU data reception error occurs	No reception
10	2WD SW	Ignition switch: ON	Drive mode selector: 2WD	OFF/ON
11	LOCK SW	Ignition switch: ON	Drive mode selector: LOCK	OFF/ON



SYSTEM SHUT-DOWN

M.U.T.-III display data does not agree with the actual data when 4WD-ECU deactivates the 4WD control function by the fail-safe function.

<Replace with Attachment 4, 5>

DATA LIST REFERENCE TABLE

M.U.T.-III can read the following items among various control data (input data from each ECU and switch) used by the electronic control 4WD system.

THE SYSTEM IS NORMAL.

<Marking area has been changed.>

<Correct>

Item No.	Check items	Check condition	ons	Normal conditions
01	Vehicle speed (4WD calculated value)			The speedometer display and the M.U.TIII display almost agree with each other.
02	Ignition power supply voltage	Ignition switch:	ON	0 to 16 V
03	Coupling torque	Drive mode sPerform a tes	selector: 4WD st run of the vehicle.	0 to 730 N·m
04	Coupling current (command value)	Perform a test run of the vehicle. C (II a a		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
05	Coupling current (monitor value)	Perform a test run of the vehicle. () () () () () () () () () () () () ()		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
06	Coupling temperature	 Drive mode selector: 4WD Perform a test run of the vehicle. 		0 to 200°C NOTE: Due to road surface condition the load to coupling varies, thus the temperature indication changes.
07	CAN system (ABS/ASC)	Ignition switch: ON	When ASC-ECU data is correctly received	ОК
			When ASC-ECU data reception error occurs	No reception
08	CAN system (engine)	Ignition switch: ON	When engine-ECU data is correctly received	ОК
			When engine-ECU data reception error occurs	No reception

Item No.	Check items	Check condition	Normal conditions			
09	CAN system Ignition swite (ETACS) ON	Ignition switch: ON	When ETACS-ECU data is correctly received	OK		
			When ETACS-ECU data reception error occurs	No reception		
10	2WD SW	Ignition switch: ON	Drive mode selector: 2WD	ON		
11	LOCK SW	Ignition switch: ON	Drive mode selector: LOCK	ON		
15	4WD mode	Ignition switch:	Drive mode selector: 2WD	2WD		
		ON	Drive mode selector: 4WD	4WD		
			Drive mode selector: LOCK	4WD LOCK		
16	FL wheel speed sensor	Check that there	un of the vehicle. e is difference between the right wheel	The speedometer display and the M.U.TIII display		
17	FR wheel speed sensor	speed and the l	speed and the left wheel speed when the vehicle turns.			
18	RL wheel speed sensor					
19	RR wheel speed sensor					
21	Engine speed	Perform a test r	The tachometer display and the M.U.TIII display almost agree with each other.			
23	Ignition position	ON		ON		
		START		START		
26	Throttle position	Ignition switch:	·	Approximately 0%		
		ON	Gradually depress the accelerator pedal.	0 – 100%		
			Fully depress the accelerator pedal.	Approximately 100% (within 100%)		
28	Limited torque	Perform a test run of the	In case of traction control does not operate	_		
		vehicle.	In case of traction control operates	0 to 730 N·m		

SYSTEM SHUT-DOWN

<Correct>

M.U.T.-III display data does not agree with the actual data when 4WD-ECU deactivates the 4WD control function by the fail-safe function.

<Item No.24 has been deleted.>

DATA LIST REFERENCE TABLE

M.U.T.-III can read the following items among various control data (input data from each ECU and switch) used by the electronic control 4WD system.

THE SYSTEM IS NORMAL.

<Marking area has been changed.>

<Incorrect>

item No.	Check items	Check condition	ons	Normal conditions
01	Vehicle speed (4WD calculated)	Perform a test run of the vehicle.		The speedop eter display and the M.U.TIII display almost agree with each other.
02	Ignition voltage	Ignition switch:	ON	0 to 16 V
03	Coupling torque	Ignition switch:	ON	0 to 730 N⋅m
04	Desired current of coupling	Drive mode selector: 4WD Perform a test run of the vehicle.		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
05	Monitored current of coupling	Drive mode selector: 4WD Perform a test run of the vehicle.		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
06	Temperature of coupling	Perform a test r	un of the velvicle.	0 to 200°C
07	CAN data (ABS/ ASC)	Ignition switch: ON	When ABS/ASC ECU data is correctly received When ABS/ASC-ECU data reception	OK No reception
			error occurs	No reception
08	CAN data (engine)	Ignation switch:	When engine-ECU data is correctly received	ОК
			When engine-ECU data reception error occurs	No reception
09	CAN data (ETACS)	Ignition switch: ON	When ETACS-ECU data is correctly received	ОК
			When ETACS-ECU data reception error occurs	No reception
10	ZWD SW	Ignition switch: ON	Drive mode selector: 2WD	ON
11	LOCK SW	Ignition switch:	Drive mode selector: LOCK	ON

Item No.	Check items	Check condition	Normal conditions	
15	4WD mode	Ignition switch:	Drive mode selector: 2WD	2WD
	(output)	ON	Drive mode selector: 4WD	4WD
			Drive mode selector: 4WD LOCK	4WD LOCK
16	FL wheel speed sensor	Check that there	un of the vehicle. e is difference between the right wheel	The speedometer display and the
17	FR wheel speed sensor	speed and the l	eft wheel speed when the vehicle turns.	M.U.TIII display almost agree with each other.
18	RL wheel speed sensor			each other.
19	RR wheel speed sensor			
21	Engine RPM	Perform a test r	un of the vehicle.	The tachometer display and the M.U.TIII display almost agree with each other.
23	Ignition position	ON		ON
		START		START
24	Engine torque	Perform a test r	run of the vehicle.	The torque changes between 0 and 300 N·m.
26	APS	Ignition switch:	Release the accelerator pedal.	Approximately 0%
		ON	Gradually depress the accelerator pedal.	0 – 100%
			Fully depress the accelerator pedal.	Approximately 100% (within 100%)
28	Limited torque	Ignition switch:	Drive mode selector: 4WD or 4WD	0 to 730 N·m
	(ASC required)	ON	LOCK	

SYSTEM SHUT-DOWN

M.U.T.-III display data does not agree with the actual data when 4WD-ECU deactivates the 4WD control function by the fail-safe function.

<Incorrect>

<Replace with Attachment 8, 9>

DATA LIST REFERENCE TABLE

M.U.T.-III can read the following items among various control data (input data from each ECU and switch) used by the electronic control 4WD system.

THE SYSTEM IS NORMAL.

<Marking area has been changed.>

<Correct>

Item No.	Check items	Check condition	ons	Normal conditions
01	Vehicle speed (4WD calculated value)			The speedometer display and the M.U.TIII display almost agree with each other.
02	Ignition power supply voltage	Ignition switch:	ON	0 to 16 V
03	Coupling torque	Drive mode sPerform a tes	selector: 4WD st run of the vehicle.	0 to 730 N·m
04	Coupling current (command value)	Drive mode selector: 4WD Perform a test run of the vehicle. () () () () () () () () () () () () () () () ()		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
05	Coupling current (monitor value)	Perform a test run of the vehicle. () () () () () () () () () () () () ()		The current changes between 0 and 5 A. (Command value and actual value agree with each other.)
06	Coupling temperature	 Drive mode selector: 4WD Perform a test run of the vehicle. 		0 to 200°C NOTE: Due to road surface condition the load to coupling varies, thus the temperature indication changes.
07	CAN system (ABS/ASC)	Ignition switch: ON	received	ОК
			When ABS/ASC-ECU data reception error occurs	No reception
08	CAN system (engine)	Ignition switch: ON	When engine-ECU data is correctly received	OK
			When engine-ECU data reception error occurs	No reception

Item No.	Check items	Check conditions		Check items Check conditions		Normal conditions
09	CAN system (ETACS)	Ignition switch: ON	When ETACS-ECU data is correctly received	OK		
			When ETACS-ECU data reception error occurs	No reception		
10	2WD SW	Ignition switch: ON	Drive mode selector: 2WD	ON		
11	LOCK SW	Ignition switch: ON	Drive mode selector: LOCK	ON		
15	4WD mode	Ignition switch:	Drive mode selector: 2WD	2WD		
		ON	Drive mode selector: 4WD	4WD		
			Drive mode selector: LOCK	4WD LOCK		
16	FL wheel speed sensor	Check that there	un of the vehicle. e is difference between the right wheel	The speedometer display and the M.U.TIII display		
17	FR wheel speed sensor	speed and the I	speed and the left wheel speed when the vehicle turns.			
18	RL wheel speed sensor					
19	RR wheel speed sensor					
21	Engine speed	Perform a test r	Perform a test run of the vehicle.			
23	Ignition position	ON		ON		
		START		START		
26	Throttle position	Ignition switch:	Release the accelerator pedal.	Approximately 0%		
		ON	Gradually depress the accelerator pedal.	0 – 100%		
			Fully depress the accelerator pedal.	Approximately 100% (within 100%)		
28	Limited torque	Perform a test run of the	In case of traction control does not operate	_		
		vehicle.	In case of traction control operates	0 to 730 N⋅m		

SYSTEM SHUT-DOWN

<Correct>

M.U.T.-III display data does not agree with the actual data when 4WD-ECU deactivates the 4WD control function by the fail-safe function.

<Item No.24 has been deleted.>