




# SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS  
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

<b>SERVICE BULLETIN</b>		No.: MSB-98E13-501	
		Date: 1998-10-15	<b>&lt;Model&gt;</b> (EC,EXP)GALANT (EA0)
<b>Subject:</b> ADDITION OF CONDITION FOR ECU TERMINAL VOLTAGE CHECK		<b>&lt;M/Y&gt;</b> 98-10	
<b>Group:</b> FUEL		<b>Draft No.:</b> 98JY541508	
<b>CORRECTION</b>	OVERSEAS SERVICE DEPT	 T.NITTA - VICE GENERAL MANAGER QUALITY INFORMATION ANALYSIS	

## 1. Description:

A condition has been added for checking the ECU terminal voltage.

## 2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'97 GALANT Workshop Manual Chassis	PWDE9611	(English)	13E-45
	PWDS9612	(Spanish)	
	PWDF9613	(French)	
	PWDG9614	(German)	
	PWDD9615	(Dutch)	
	PWDW9616	(Swedish)	

## 3. Details:

Terminal No.	Check item	Check condition (Engine condition)		Normal condition
21	Vehicle speed sensor	<ul style="list-style-type: none"> <li>Ignition switch: ON</li> <li>Vehicle is moving forward slowly</li> </ul>		0 ↔ 15V (Varies repeatedly)
25	Ignition switch-IG	Ignition switch: ON		11 - 13 V
31	A/C switch 2	<ul style="list-style-type: none"> <li>Engine: Idling</li> <li>Outside air temperature: 25°C or more</li> </ul>	When A/C is MAX. COOL condition (When the load by A/C is high)	0 - 3V
			When A/C is MAX. HOT condition (When the load by A/C is low)	System voltage
33	Fuel injection rate correction resistor	Ignition switch: ON		0.2 - 4.5 V
34	Diesel fuel temperature sensor	Ignition switch: ON (when cranking at cold engine)		0.5 - 3.4 V
35	Engine coolant temperature sensor	Ignition switch: ON	Engine coolant temperature is 0°C	3.2 - 3.8 V
			Engine coolant temperature is 20°C	2.3 - 2.9 V
			Engine coolant temperature is 40°C	1.3 - 1.9 V
			Engine coolant temperature is 80°C	0.3 - 0.9 V
36	Intake air temperature sensor	Ignition switch: ON	Intake air temperature is 0°C	3.2 - 3.8 V
			Intake air temperature is 20°C	2.3 - 2.9 V
			Intake air temperature is 40°C	1.5 - 2.1 V
			Intake air temperature is 80°C	0.4 - 1.0 V
37	Boost sensor	Ignition switch: ON	Altitude is 0 m	2.0 - 2.6 V
			Altitude is 1,200 m	1.7 - 2.3 V
38	Sensor applied voltage	Ignition switch: ON		4.5 - 5.5 V
41	Fuel injection timing correction resistor	Ignition switch: ON		0.2 - 4.5 V
43	Idle position switch 1	Ignition switch: ON	Accelerator pedal is released	0 - 1 V
			Accelerator pedal is depressed	4 V or higher

&lt;Added&gt;

When idling after having warmed up, engine is suddenly raced.

Voltage momentarily increases.