

GROUP 54

CHASSIS ELECTRICAL

GENERAL

OUTLINE OF CHANGES

- The immobilizer-ECU has been changed. The service procedures except for those described below are the same as before.
 - (1) A troubleshooting item (for diagnosis code No. 33) has been added for when the engine starting prevention mode is activated because the incorrect key has been used five times in succession.
 - (2) Diagnosis code No. 11 is now erased automatically when the condition returns to normal. (Previously it was erased using the MUT-II.)

IMMOBILIZER SYSTEM

SPECIAL TOOLS

Tool	Number	Name	Use
	MB991502	MUT-II sub assembly	<ul style="list-style-type: none">• Immobilizer system check (Diagnosis display using the MUT-II)• Registration of the ID code.
	16X0607	ROM back	

TROUBLESHOOTING

INSPECTION CHART FOR DIAGNOSIS CODES

Diagnosis code No.	Inspection items	Reference page
11 ^{*1}	Transponder communication system	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
12 ^{*1}	ID code are not the same or are not registered	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
21 ^{*2}	Communication system between MUT-II and engine-ECU	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
21 ^{*3}	Communication system between fuel cut valve-ECU and immobilizer-ECU	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
22 ^{*3}	Fuel cut valve-ECU system	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
23 ^{*3}	Starting permission codes are not identical	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
31	EEPROM abnormality inside immobilizer-ECU	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
32 ^{*2}	Ignition switch IG signal circuit system	Refer to '96 PAJERO Workshop Manual (PWJE9086-G)
33	Starting prevention system activated due to incorrect operation	54-2

NOTE

(1) ^{*1}: Diagnosis code No.11 and No.12 are not recorded.

(2) ^{*2}: Indicates vehicles with petrol engines.

(3) ^{*3}: Indicates vehicles with Diesel engines.

INSPECTION PROCEDURE FOR DIAGNOSIS CODES

