

SECTION 54A

CHASSIS ELECTRICAL

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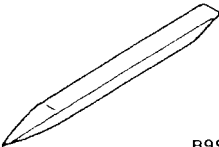
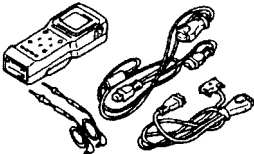
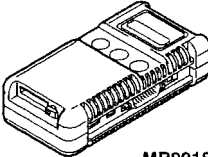
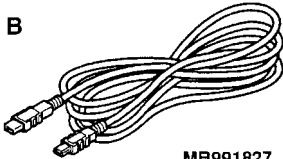
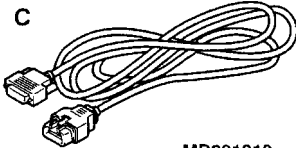
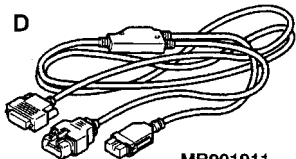
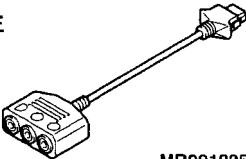
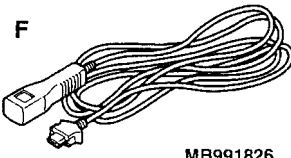
General

New servicing information has been established with the adoption of an engine immobiliser system. Apart from the information below, servicing is the same as in the previous model.

54A-2 CHASSIS ELECTRICAL – IGNITION SWITCH, ENGINE IMMOBILISER

Ignition switch and engine immobiliser

Special tools

Tool	Number	Name	Use
 B990784	MB990784	Ornament remover	Removing under cover assembly and column cover
 B991502	MB991502	MUT-II sub-assembly	Reading diagnosis codes
<p>A</p>  MB991824	MB991955 A: MB991824 B: MB991827 C: MB991910 D: MB991911 E: MB991825 F: MB991826	MUT-III sub-assembly A: V.C.I. (Vehicle Communication Interface) B: USB cable C: MUT-III main harness A (for vehicles fitted with CAN communications) D: MUT-III main harness B (for vehicles not fitted with CAN communications) E: Measurement adapter F: Trigger harness	Reading diagnosis codes
<p>B</p>  MB991827			
<p>C</p>  MB991910			
<p>D</p>  MB991911			
<p>E</p>  MB991825			
<p>F</p>  MB991826			
MB991955			

Troubleshooting

Engine immobiliser

1. Diagnosis functions

1-1. Reading diagnosis codes

1-1-1. Using the MUT-II/III

The MUT-II/III is used to read the diagnosis codes.

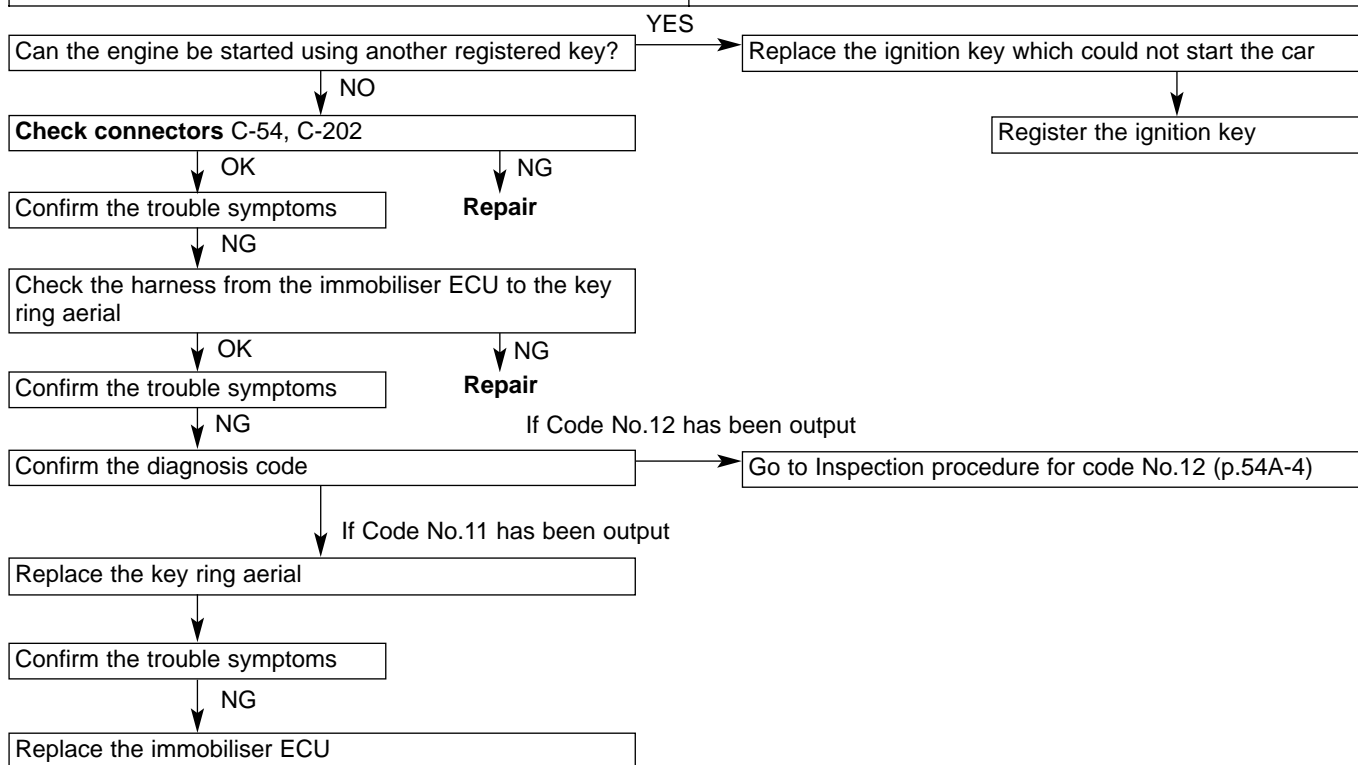
(See Chapter 00, How to Use Troubleshooting and Inspection Service Points.)

2. Chart of diagnosis codes

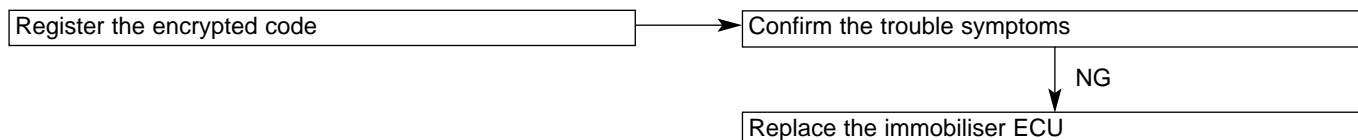
Code No.	Diagnostic Item	Page
11	Problem relating to communication with the ignition key	54A-4
12	Ignition key not registered or code from ignition key does not match	54A-4

3. Inspection procedure classified by diagnosis code

Code No. 11 Problem relating to communication with the ignition key	Possible cause
When the ignition switch is set to the ON position, the ID code is not transmitted from the ignition key to the immobiliser ECU.	<ul style="list-style-type: none"> • Fault in ignition key • Fault in immobiliser ECU • Fault in harness/ connector



Code No. 12 Ignition key not registered or code not from ignition key does not match	Possible cause
The ignition key is not registered in the immobiliser ECU.	<ul style="list-style-type: none"> • The ignition key has not been registered with the immobiliser ECU • Fault in immobiliser ECU

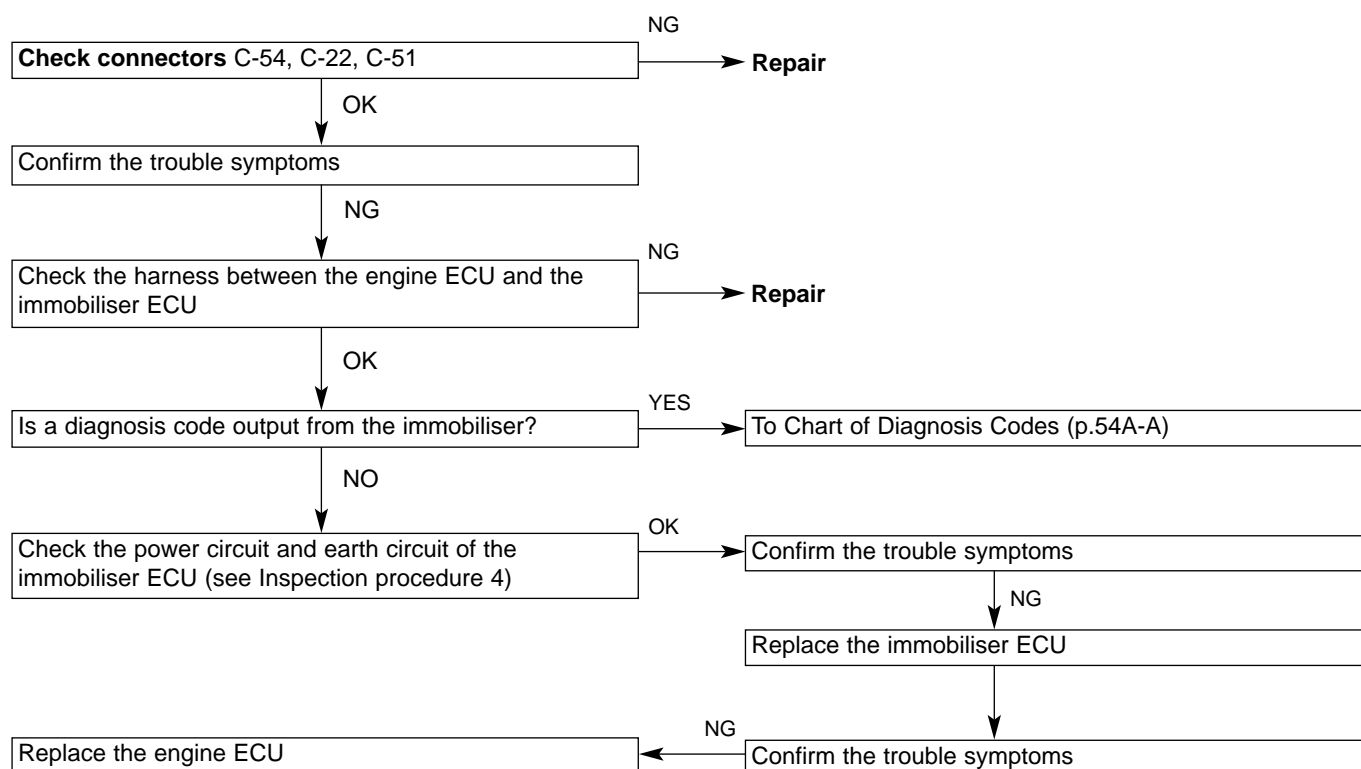


4. Inspection Chart for Trouble Symptoms

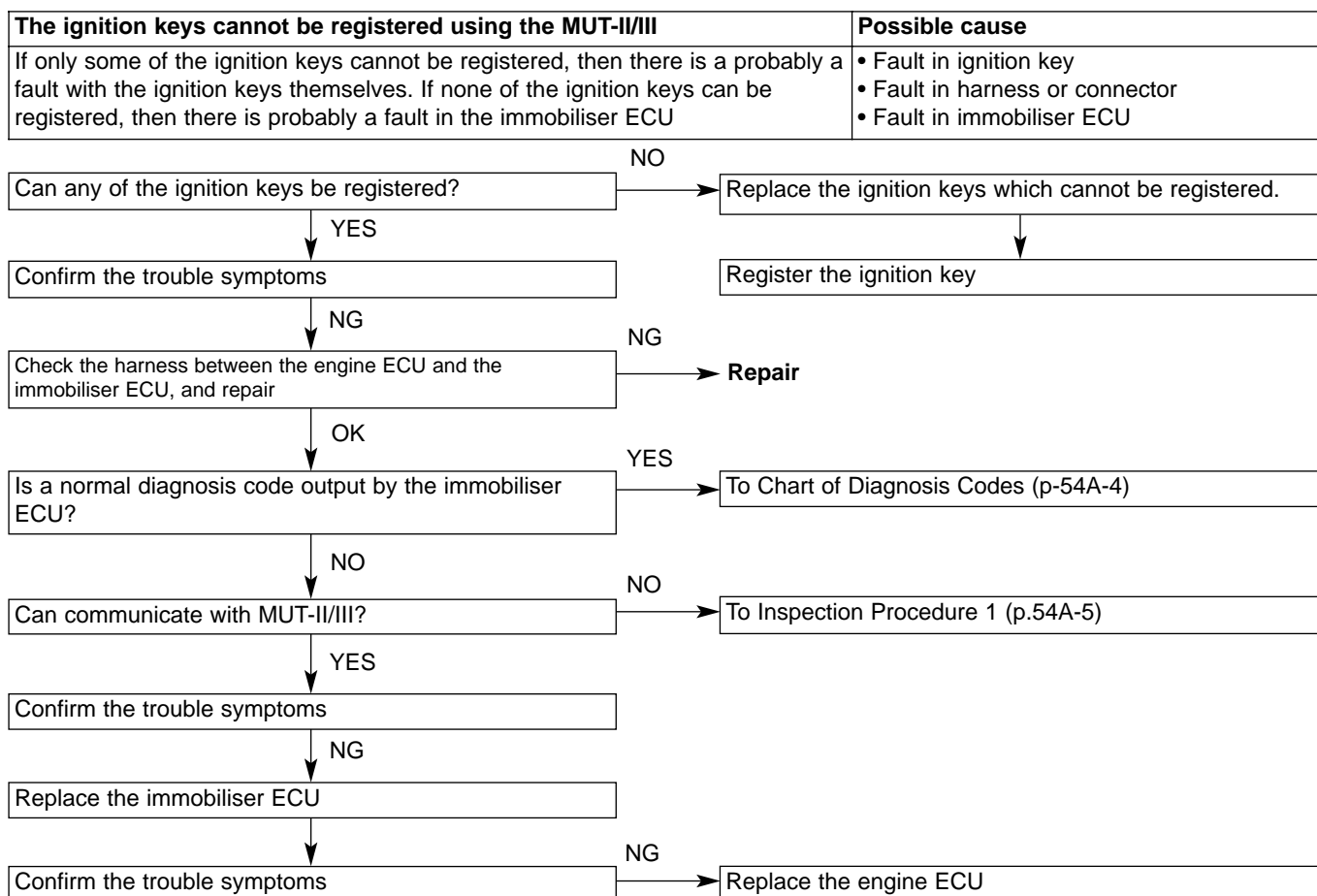
Trouble symptom	Inspection procedure No.	Reference page
The diagnosis code No.54 is generated by the engine ECU and there is no communication between the MUT-II/III and the immobiliser ECU	1	54A-5
The ignition keys cannot be registered using the MUT-II/III	2	54A-6
The engine does not start. (It cranks but will not fire.)	3	54A-7
Check the immobiliser ECU power supply and earth circuit system	4	54A-7

5. Inspection Procedures for Trouble Symptoms**Inspection Procedure 1**

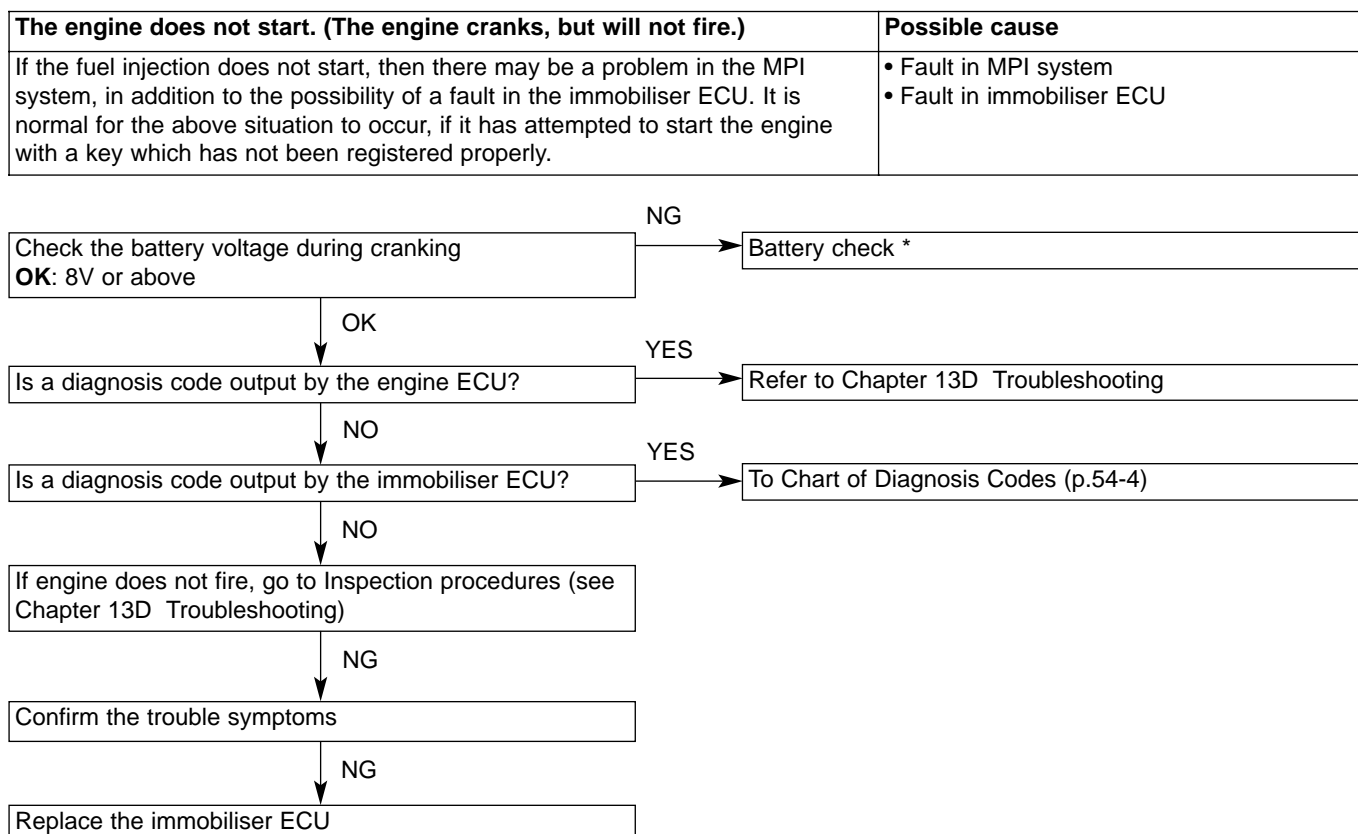
Diagnosis code No.54 is generated by the engine ECU and there is no communication between the MUT-II/III and the immobiliser ECU	Possible cause
There is probably a communications fault between the engine ECU and the immobiliser ECU	<ul style="list-style-type: none">• Fault in immobiliser ECU power supply or earthing• Fault in harness between engine ECU and immobiliser ECU



Inspection Procedure 2



Inspection Procedure 3



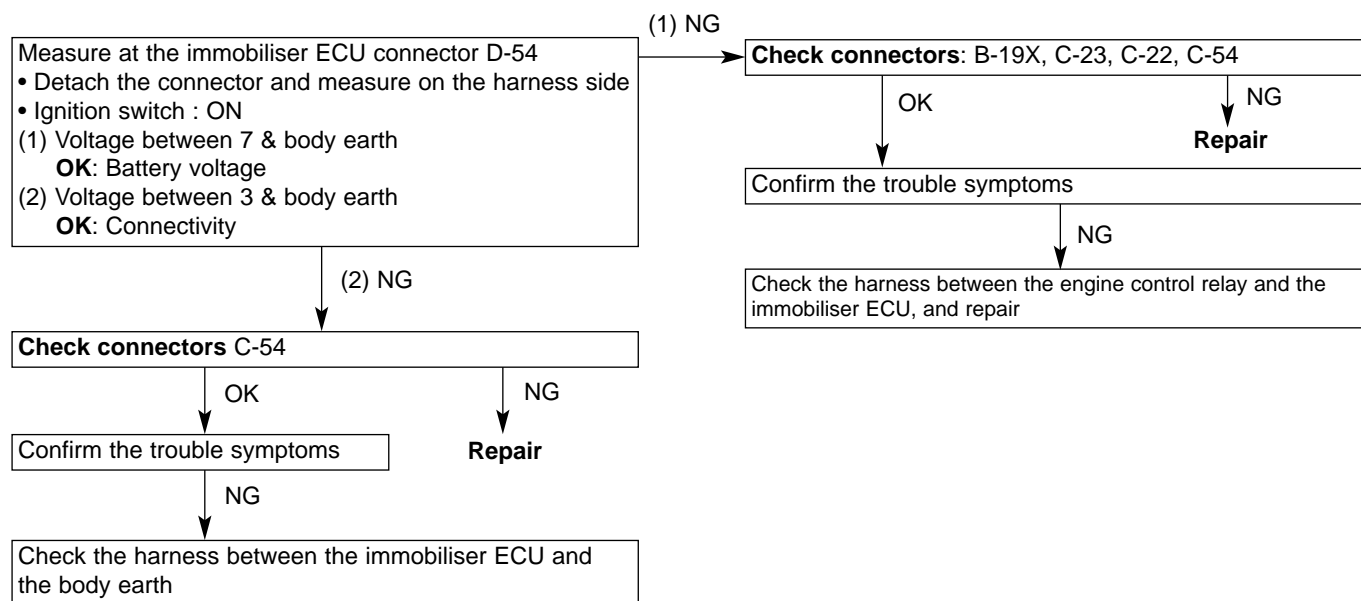
Remarks

* : See '00-5 Lancer Cedia Servicing Manual (No. 1036K00)

54A-6 CHASSIS ELECTRICAL – IGNITION SWITCH, ENGINE IMMOBILISER

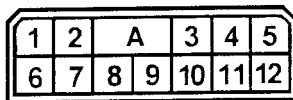
Inspection Procedure 4

Checking the power supply and earth circuit system of the immobiliser ECU



Immobiliser ECU check

Terminal voltage check table

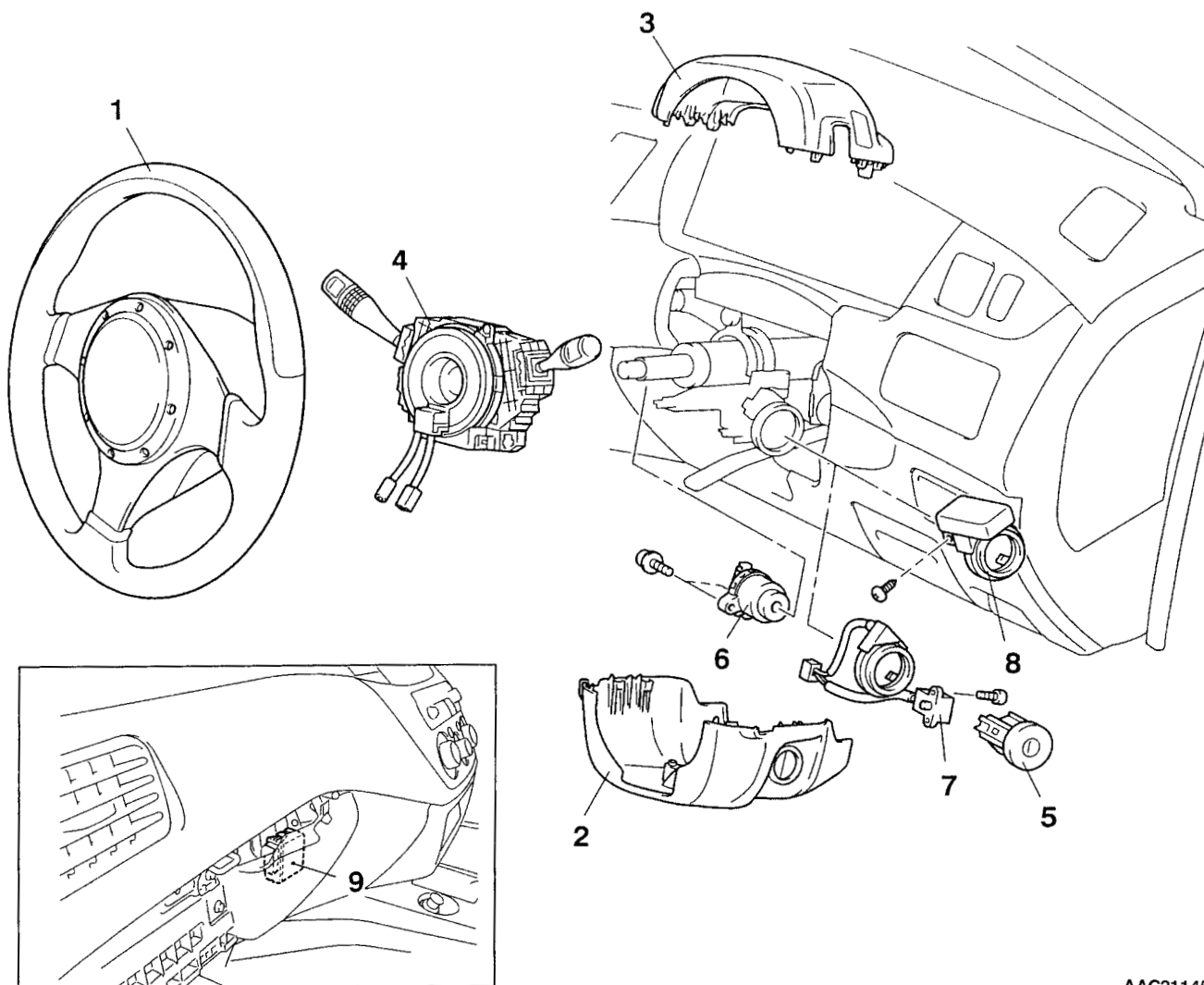


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Terminal No.	Signal	Check conditions	Terminal voltage
3	Immobiliser ECU earth	At all times	0V
5	Engine ECU	-	-
7	Immobiliser ECU power supply	At all times	Battery voltage
10	Ignition key ring aerial input	-	-
11	Ignition key ring aerial output	-	-

Ignition switch and Immobiliser ECU

Removal and Installation



AAC211450

Removal Procedure

1. Steering wheel (See Chapter 37A)*
2. Power column cover (See Chapter 52A, Instrument Panel)*
3. Upper column cover (See Chapter 52A, Instrument Panel)*

◀ A ▶

4. Column switch
5. Steering lock cylinder
6. Ignition switch
7. Key reminder switch
8. Key ring aerial
9. Immobiliser ECU

Remarks

* : See '00-5 Lancer Sedia Servicing Manual (No. 1036K00)