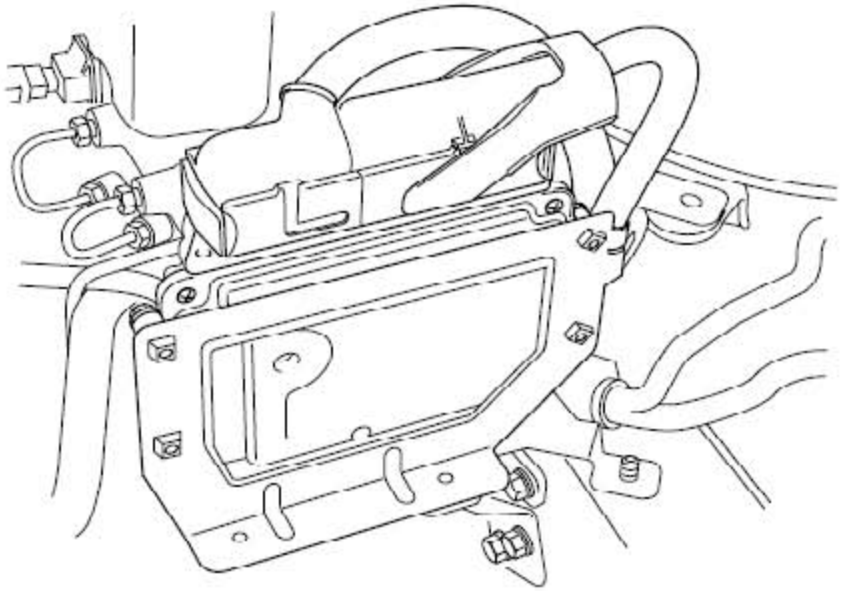
P1695 EMS MEMORY ERROR

COMPONENT LOCATION



GENERAL DESCRIPTION

1). The relevant data for the immobilizer function are stored at permanent memory (EEPROM or Flash etc.).
2). The immobilizer data are stored by three independent entries.
3). The data from EEPROM are evaluated by ?2 of 3 decision" . That means all three entries are read and the content is compared before authentication process.
4). If the contents of all entries are equal, the authentication will run without additional measures.
5). If only the contents of two entries are equal, the authentication will run and fault code "EEPROM defective" is stored at ECM.
6). If the contents of all three entries are different from each other, no authentication will be possible and the fault code "EEPROM defective" will be stored. The limp home function cannot be activated. The ECM shall be replaced if the EEPROM related fault occurs again after new teaching of all keys.

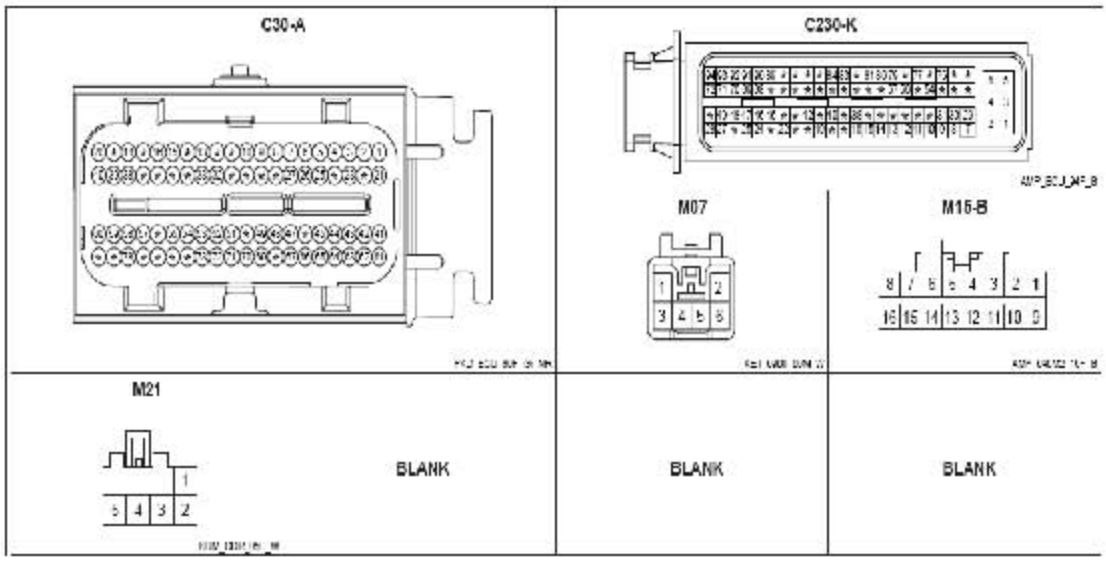
DTC DESCRIPTION

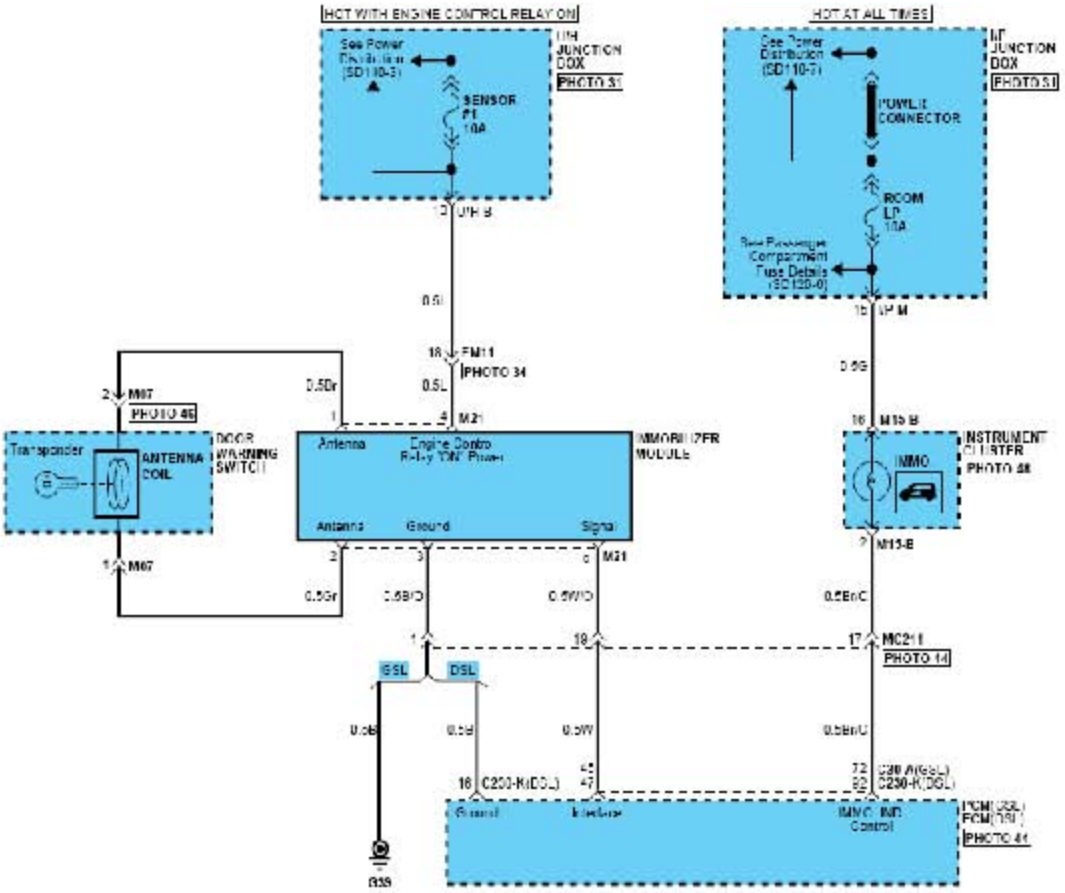
The ECM sets DTC P1695 if there's any fault in EMS internal permanent memory(EEPROM or Flash etc.)

DTC DETECTING CONDITION

Item	Detecting Condition	Possible cause
DTC Strategy		• Faulty EMS
Enable Conditions	• IG ON	
Threshold value		
Diagnostic Time		
Fail Safe		

SCHEMATIC DIAGRAM





COMPONENT INSPECTION

1). Check transponder and ECU status

A) IGN "ON" & Engine "OFF".

B) Monitor the "KEY STATUS" and "ECU STATUS' Parameter on the Scantool.

Specification :'LEARNT'

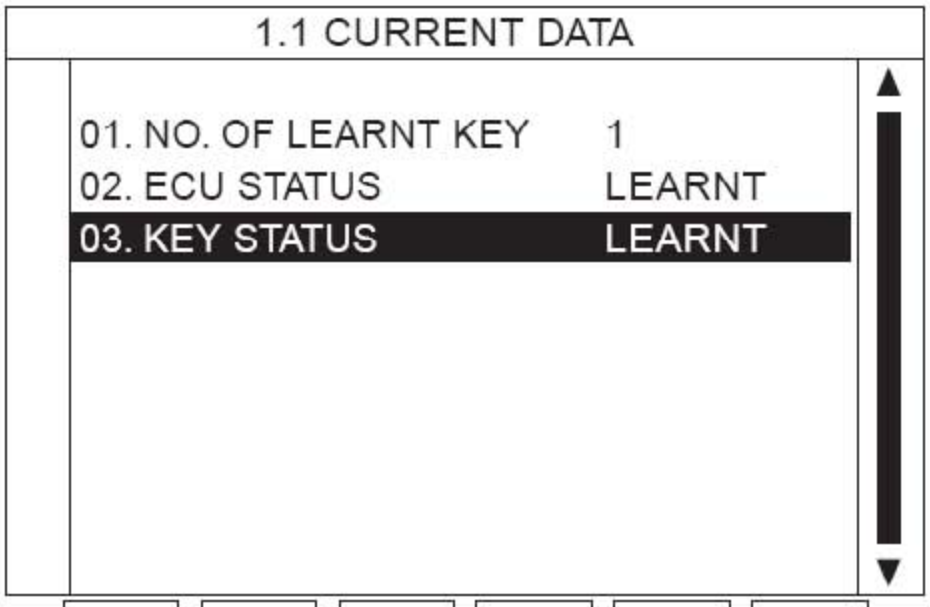


Fig 1

Fig 1) The current data in abnormal state

C) Are "KEY STATUS" and "ECU STATUS' Parameter within specifications?

YES

Check connectors for looseness, poor connection, bending, corrosion, contamination, deterioration, or damage. Repair or replace as necessary and then go to "Verification of Vehicle Repair" procedure.

NO

Go to "Check transponder" procedure.

2). Check ECM.

A) IGN "ON" & Engine "OFF"

B) Neutralize ECM and Register transponder key by scantool.

NOTE

Pin code is requied to Neutralize ECM and to Register transponder key.

C) Are Neutralizing and Registering completed normally?

YES

Check connectors for looseness, poor connection, bending, corrosion, contamination, deterioration, or damage. Repair or replace as necessary and then go to "Verification of Vehicle Repair" procedure.

NO

Substitute with a known-good transponder and check for proper operation.
If the problem is corrected, replace transponder and then go to "Verification of Vehicle Repair" procedure.

NOTE
ECM substitued for old one must be in "Virgin" or "Neutral" status and Pin code is requied to Neutralize ECM and to Register transponder key

VERIFICATION OF VEHICLE REPAIR

After a repair, it is essential to verify that the fault has been corrected.

1). Connect scantool and selet "Diagnostic Trouble Codes(DTCs)" mode and then clear DTC.
2). Operate the vehicle and monitor the DTC on the scantool.
3). Are any DTCs present?

YES
Go to the applicable troubleshooting procedure.

NO
System is performing to specification at this time.