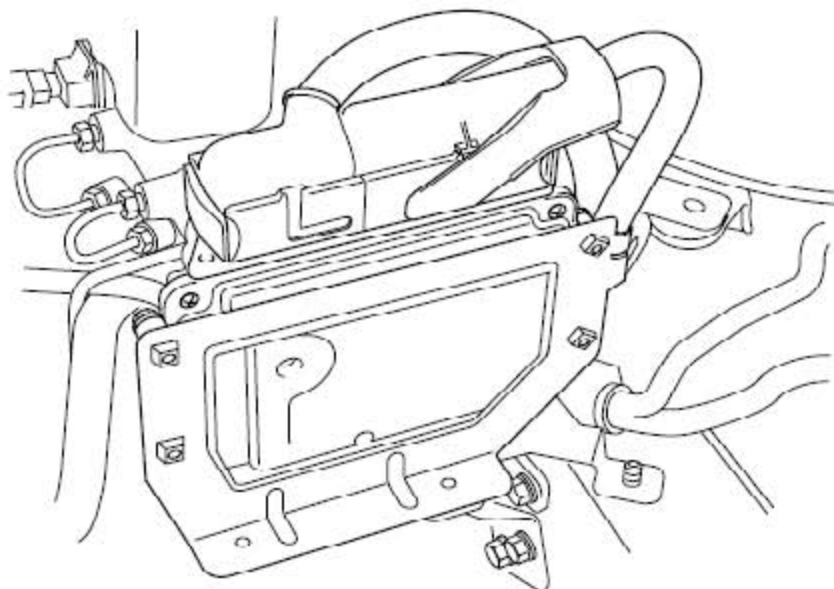# P1699 TWICE OVERTRIAL

## COMPONENT LOCATION



## GENERAL DESCRIPTION

This is a special function for engine start by vehicle manufacturer. The engine can be started for moving from the production line to an area where the key teaching is proceeded.
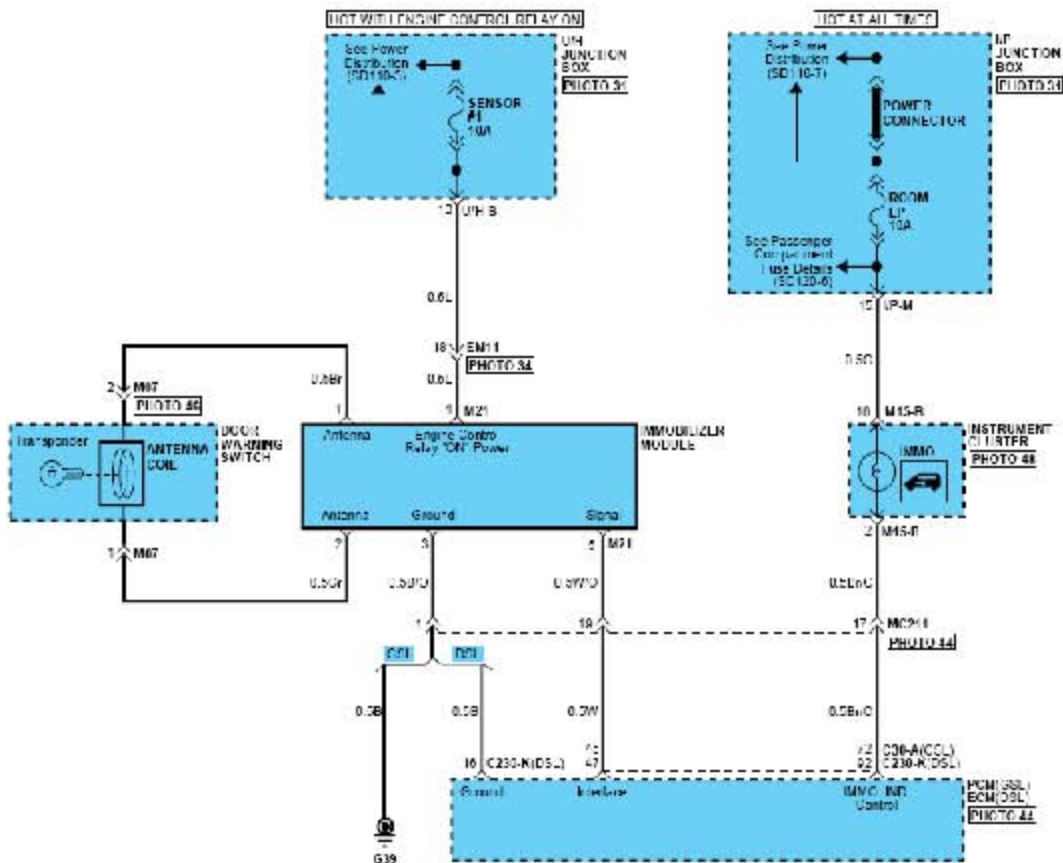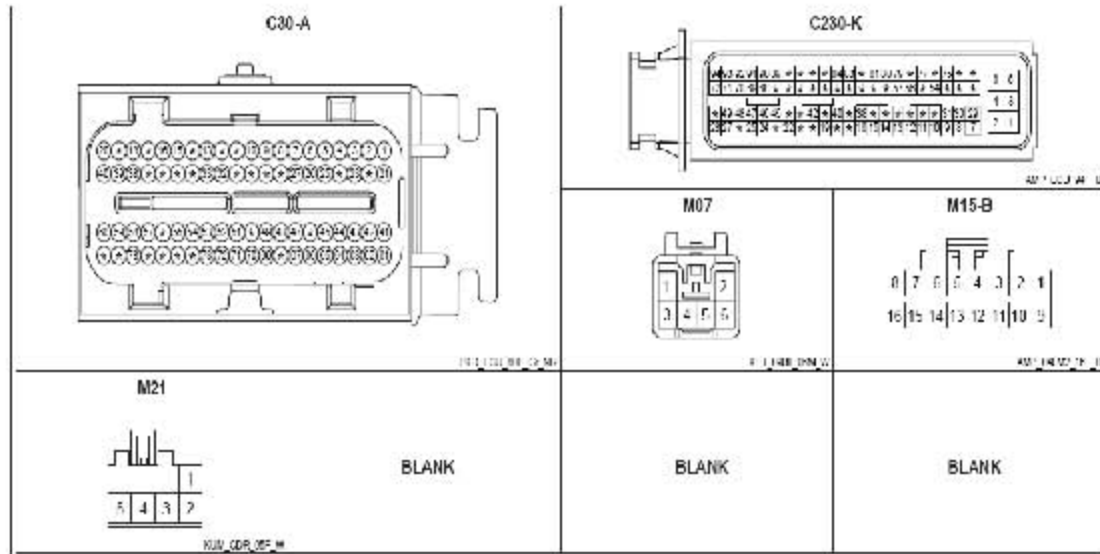
## DTC DESCRIPTION

The ECM sets DTC P1697 if the maximum limit of Twice IGN is Exceeded.

## DTC DETECTING CONDITION

| Item | Detecting Condition | Possible cause |
|------|--------------------|----------------|
| DTC Strategy | | • Twice IGN ≥ 32 times |
| Enable Conditions | • IG ON | |
| Threshold value | | |
| Diagnostic Time | | |
| Fail Safe | | |

# SCHEMATIC DIAGRAM

## MONITOR DTC STATUS

1). Connect scantool to Data Link Connector(DLC).
2). Ignition "ON" & engine "OFF".
3). Selet "Diagnostic Trouble Codes(DTCs)"mode and monitor "DTC Status" parameter
4). Is the DTC B1699 present?

**YES**

Go to "Inspection & Repair" procedure.

**NO**

Fault is intermittent caused by poor contact in SMARTRA's and/or ECM's connector or was repaired and ECMmemory was not cleared. Thoroughly 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.

## COMPONENT INSPECTION

1). Check communication between ECM and scantool.
   A) IGN "ON" & Engine "OFF".
   B) Connect scantool to Data Link Connector(DLC).
   C) Erase the DTC and Monitor the "ECU STATUS' Parameter on the Scantool.

```
           1.1 CURRENT DATA

   01. NO. OF LEARNT KEY      1
   02. ECU STATUS             LEARNT
   03. KEY STATUS             LEARNT




     FIX  SCRN FULL  PART GRPH HELP
```

**Fig 1**

Fig 1) The current data in abnormal state

D) Is "ECU STATUS' Parameter "Locked"?

**YES**

Keep "KEY ON" status for 1 hours to withdraw "Locked by Timer" status. Then register transponder and go to "Verification of Vehicle Repair" procedure.

**NO**

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.

## 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.