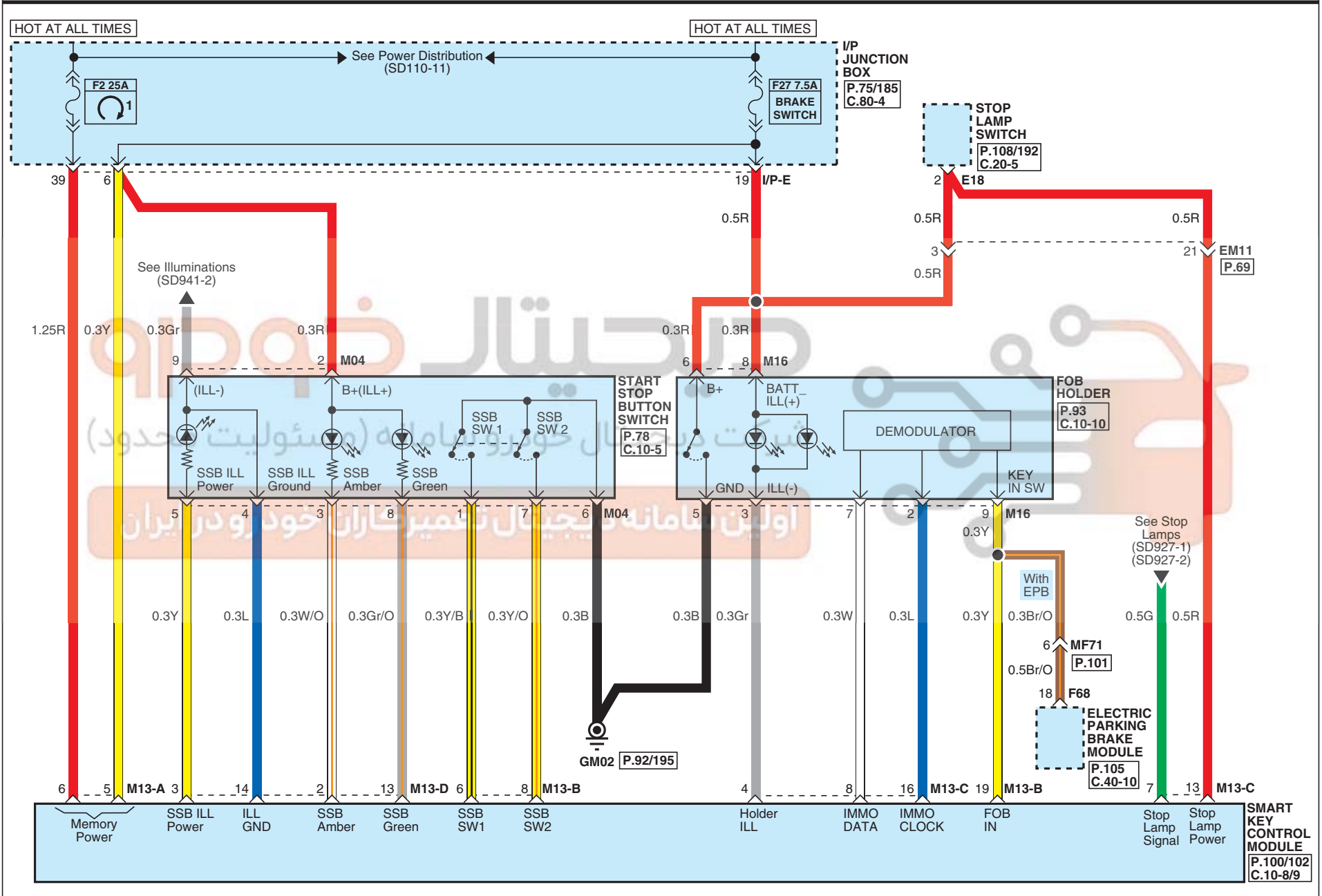


SD954-3



Smart Key Module System (2)

SD954-4



SD954-5



SD954-6



Smart Key Module System

Service Tips (1)

Circuit Description

The SMART KEY system is a system that allows the user to access and operate a vehicle in a very convenient way. To access the vehicle, no traditional key or remote control unit is needed.

The user carries a SMART KEY FOB which does not require any conscious actions by the user (e.g. operate a RKE button). The SMART KEY system is triggered by pressing a push button in the door handle.

• Role of Main Components

1. Smart Key Control Module :

- 1) Controls Power Supply Relay (ACC, IG1, IG2, Start).
- 2) Transmits Passive Lock/Unlock signal to IPS Control Module via B-CAN.
- 3) Transmits Authorization information through serial communication with PCM (Engine Start Permission).
- 4) Antenna operation & Smart Key Authorization.
- 5) Diagnosis Function (Communicate with Diagnosis Tool through K-Line).
- 6) Sets Engine status & Transmission specification (AT/ MT) automatically using C-CAN information.
- 7) Verifies Immobilizer communication data and Authorize.

2. Smart Key Outside Handle :

- 1) Detects Smart Key outside of the door area (LF Antenna Built-in).
- 2) Passive Lock / Unlock (Button Type).

3. Smart Key Bumper Antenna : Detects Smart Key outside of the trunk area (LF Antenna Built-in).

4. Instrument Cluster : Immobilizer Indicator, Warning Buzzer Output, Warning Message.

5. Smart Key Antenna (Interior) : Detects Smart Key in interior area.

6. Smart Key Trunk Antenna : Detects Smart Key in trunk area.

7. Start Stop Button (SSB) : is used for the Engine Start/Stop and Power transfer.

8. Power Distribution Relay : SMK's power distribution control relay (ACC, IG1, IG2, Start).

9. Smart Key : It transmits Unique ID and Remote Control Signal in wireless.

10. External Buzzer : It generates various warning alerts or confirmation alerts when passive lock / unlock operate.

11. PCM :

- 1) It transmits Information (Engine OFF/ Cranking/ Engine Start/ ETC..) of Engine Status via C-CAN.
- 2) It communicates Engine Start Authorization related information with Smart Key Control Module.

12. Trunk Lid Handle Switch : It inputs Switch Signal for Passive Trunk Open Control.

MEMO

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

