KIA/HYUNDAI Connector and Menu Selection

CONTENT

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1. Brief

When using LAUNCH diagnostic tools, customers are confused about the selection of connector and menu. Thus, it is very necessary to create this document.

1.1 Experience

When testing KIA and HYUNDAI cars, many customers are confused about the selection of connector and menu. This document briefly introduces how to select. It helps customer with the test.

1.2 Application Range

It is applicable for all KIA/HYUNDAI diagnostic software users of LAUNCH products, including developing engineers and customers, etc.

1.3 Attention

With the upgrading of KIA/HYUNDAI diagnostic software, this document may vary.

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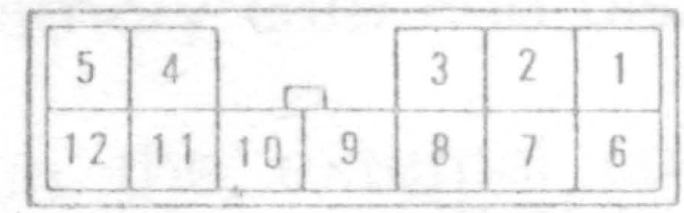
2. Content

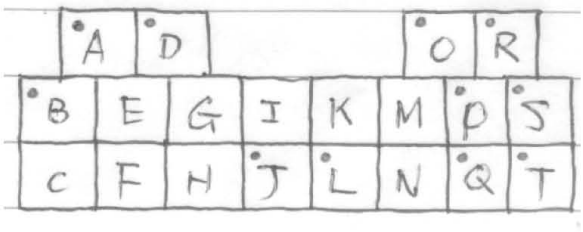
2.1 Content Description

2.1.1 KIA/HYUNDAI Diagnostic Socket

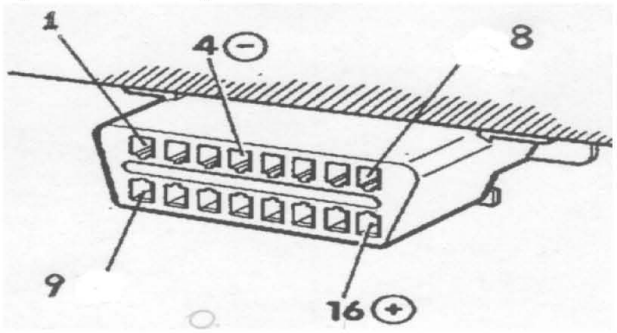
1). Hyundai 12PIN Diagnostic Socket has ISO, BOSCH, Flash Code and Melco Protocols. In non-American areas, it mainly appears in Hyundai cars before 2001. In America, it mainly appears in year of 1989-1995.



2). KIA 20PIN Diagnostic Socket has KWP, ISO, BOSCH, Flash Code and Melco Protocols. In non-American areas, it mainly appears in KIA cars before 2006. In America, it mainly appears before 1996.



3). 16PIN Diagnostic Socket has CANBUS, KWP and ISO Protocols.



2.1.2 Connector Selection – X-431

1). For Hyundai 12PIN Diagnostic Socket, select 12PIN Connector from Hyundai 12+16 Connector.

2). For KIA 20PIN Diagnostic Socket, select KIA-20 Connector.

3). For 16PIN Diagnostic Socket, it is recommended to use SUPER 16 Connector as standard.
   A). CANBUS protocol requires CANBUS II or SUPER 16 Connector
   B). Non-CANBUS protocol requires OBD II-16C Connector or SUPER 16 Connector (do not use SMART OBD 16 Connector).

2.1.3 Connector Selection– X-431 GX3/MASTER/NCP/3G/GDS/ X-431 IV

1). For Hyundai 12PIN Diagnostic Socket, select 12PIN Connector from Hyundai 12+16 Connector.

2). For KIA 20PIN Diagnostic Socket, select KIA-20 Connector.

3). For 16PIN Diagnostic Socket, select SMART OBDII-16 Connector.

2.1.4 Connector Selection – X-431 DIAGUN

1). For Hyundai 12PIN Diagnostic Socket, select 12PIN Connector from Hyundai 12+16 Connector.

2). For KIA 20PIN Diagnostic Socket, select KIA-20 Connector.

3). For 16PIN Diagnostic Socket, select X-431 DIAGUN Connector.

2.1.5 Connector Selection – X-431 Diagun III/X-431 Pad

1). For Hyundai 12PIN Diagnostic Socket, select 12PIN Connector from Hyundai 12+16 Connector.

2). For KIA 20PIN Diagnostic Socket, select KIA-20 Connector.

3). For 16PIN Diagnostic Socket, select DBSCar Connector.

2.1.6 Connector Selection – X-431 TOP

1). For Hyundai 12PIN Diagnostic Socket, select 12PIN Connector from Hyundai 12+16 Connector.

2). For KIA 20PIN Diagnostic Socket, select KIA-20 Connector.

3). For 16PIN Diagnostic Socket, select universal OBDII-16 Connector.

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2.1.7 Menu Selection

Menu selection after accessing KIA/HYUDNA software:

1).Diagnostic Socket Selection: It is determined according to the diagnostic socket found on the car;

2). Area Selection:
A). In Non-American Areas, select General Area or Non-Korea;
B). In American Area, select USA Area. Korea Area can only be used in Korea.

3).Select Car Model -> Model Year -> Displacement -> Specific System -> Subsystem (if present)
A). Engine System may have multiple subsystems. EOBD, GEN and ALL are the most common types. EOBD system can monitor the emission. It requires installing the engine speed sensor to the side of engine clutch

to prevent effect from crankshaft torsional vibration when engine misfire being monitored through the slight fluctuation of engine speed. For general car models, select GEN or ALL.

NOTE: The car model and model year under this menu are not complete. We are making great efforts to improve it.

2.1.8 System Test

Following functions are common in KIA/HYUNDAI diagnostic systems:

1). Read DTC (exist in all systems);

2). Clear DTC (exist in all systems);

3). Read Data Stream (exist in all systems);

4). Actuation Test (exist in all systems);

5). Read Version Information (exist in all systems);

6). Resetting Adaptive Values (exist in gasoline engine system);

7). ABS Bleeding (exist in ABS system);

8). Injector Correction (exist in diesel engine system);

9). Engine Test (exist in diesel engine system);

10). Idle Adjustment (exist in all systems of gasoline engine);

11). CPF Service Regeneration (exist in diesel engine system);

12). PCM Auto Detection Reset (exist in gasoline engine system);

13). PCM Lock (MEC) Setting (exist in gasoline engine system);

14). Resetting Auto T/A Values (exist in transmission system);

15). Steering Angle Sensor (exist in ABS system);

16). IMMOBILIZER: Anti-theft System.

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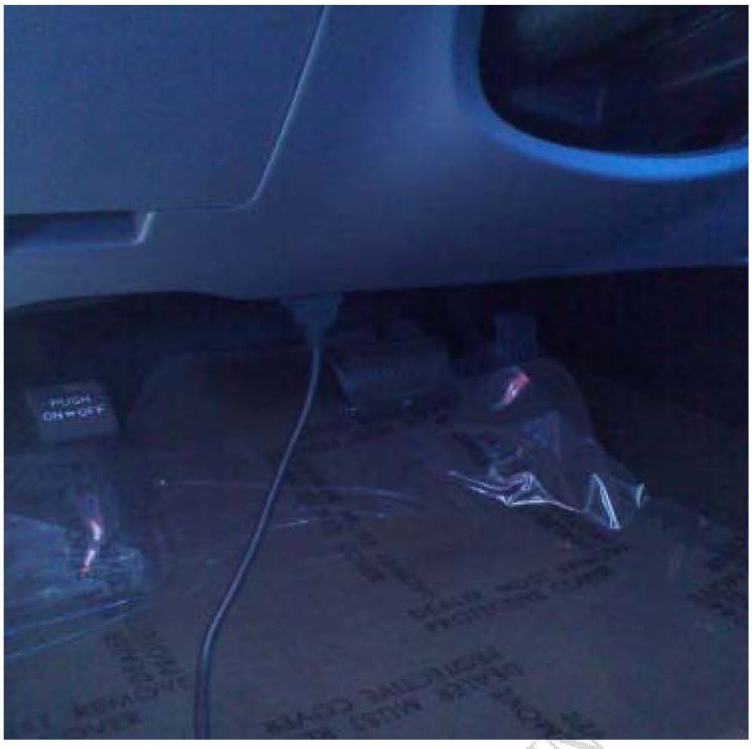
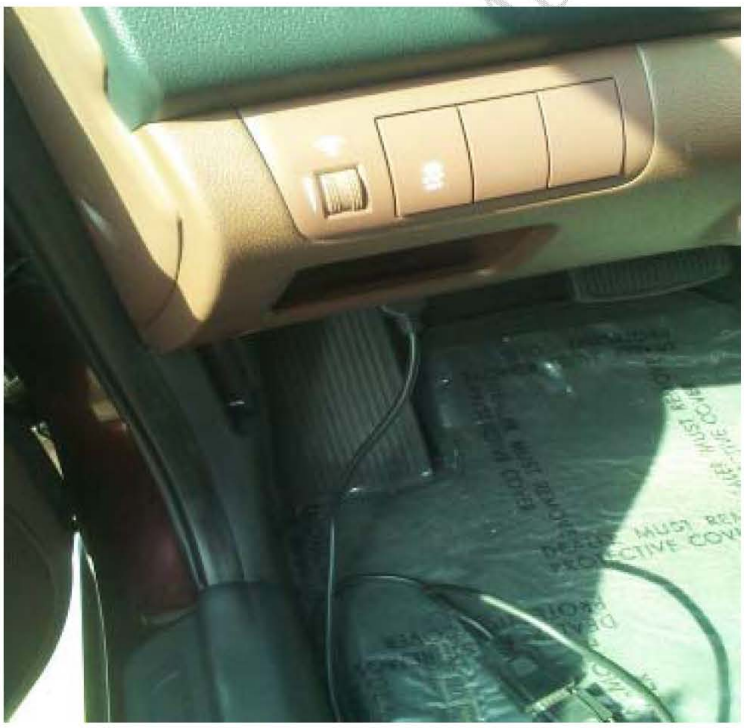
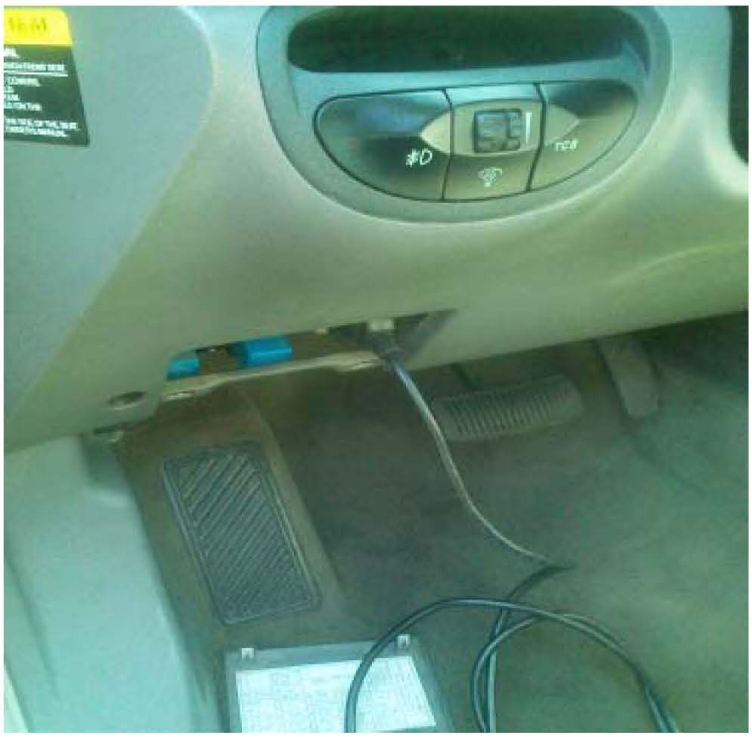
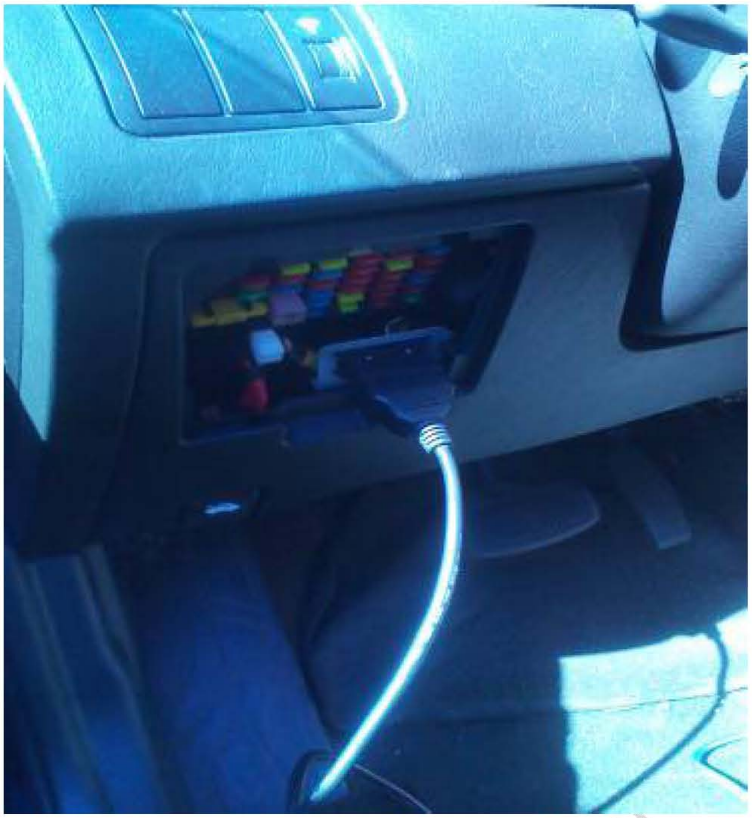
2.1.9 Common Diagnostic Socket Position

Below are the common diagnostic socket positions of KIA/HYUNDAI car models:









2.1.10 Special Diagnostic Socket Position

KIA/HYUNDAI Special Diagnostic Socket: KIA-20PIN and Hyundai 12PIN. Usually, special diagnostic socket is next to the engine under front cover.