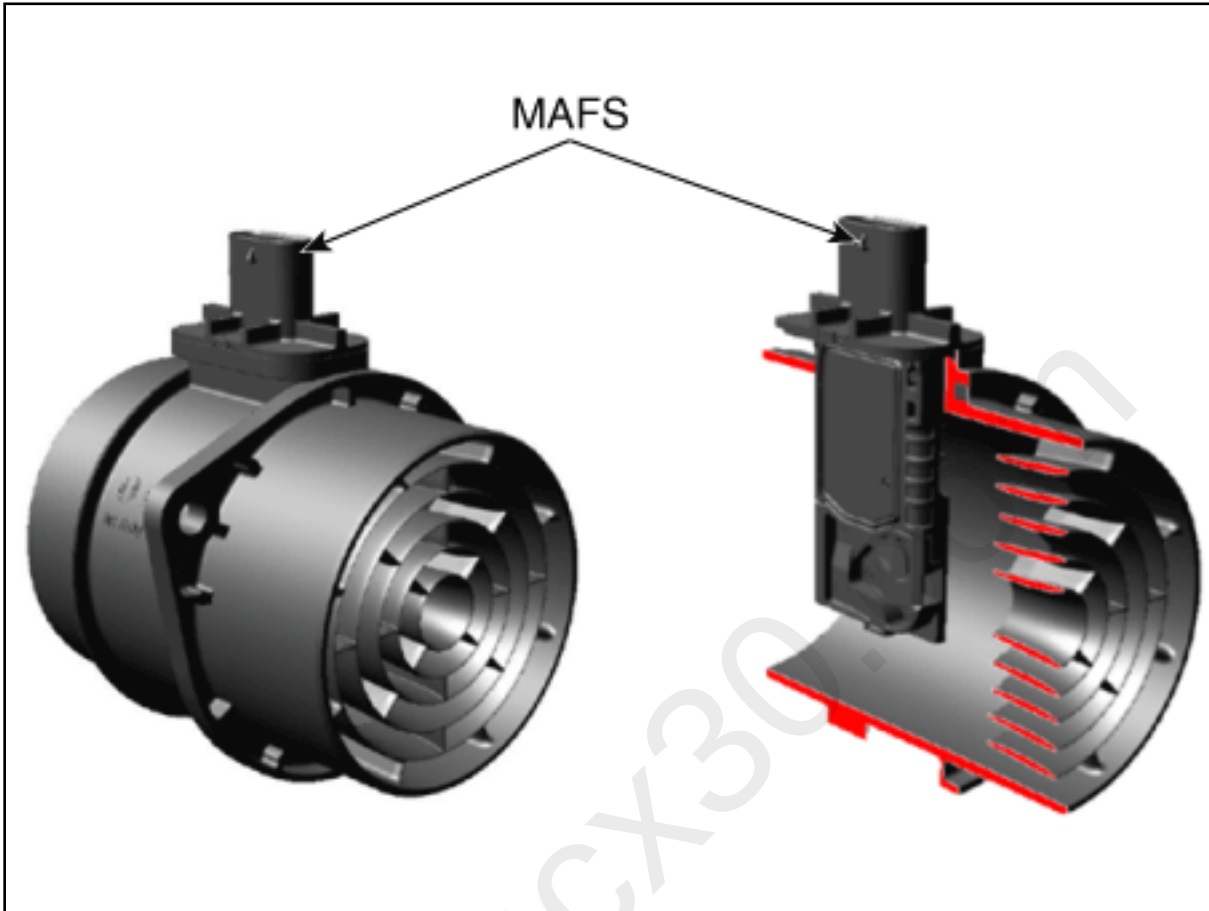


Description

MAFS uses a hot-film type sensing element to measure the mass of intake air entering the engine, and send the signal to ECM.

A large amount of intake air represents acceleration or high load conditions while a small amount of intake air represents deceleration or idle.

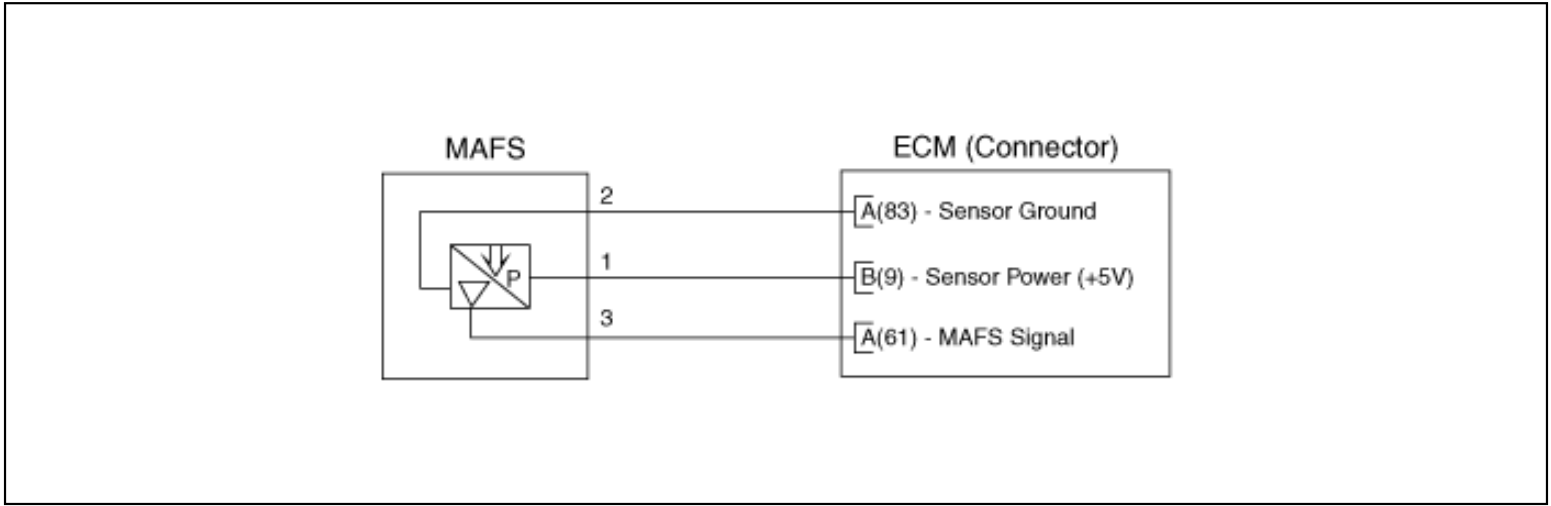
The ECM uses this information to control the EGR solenoid valve and correct the fuel amount.



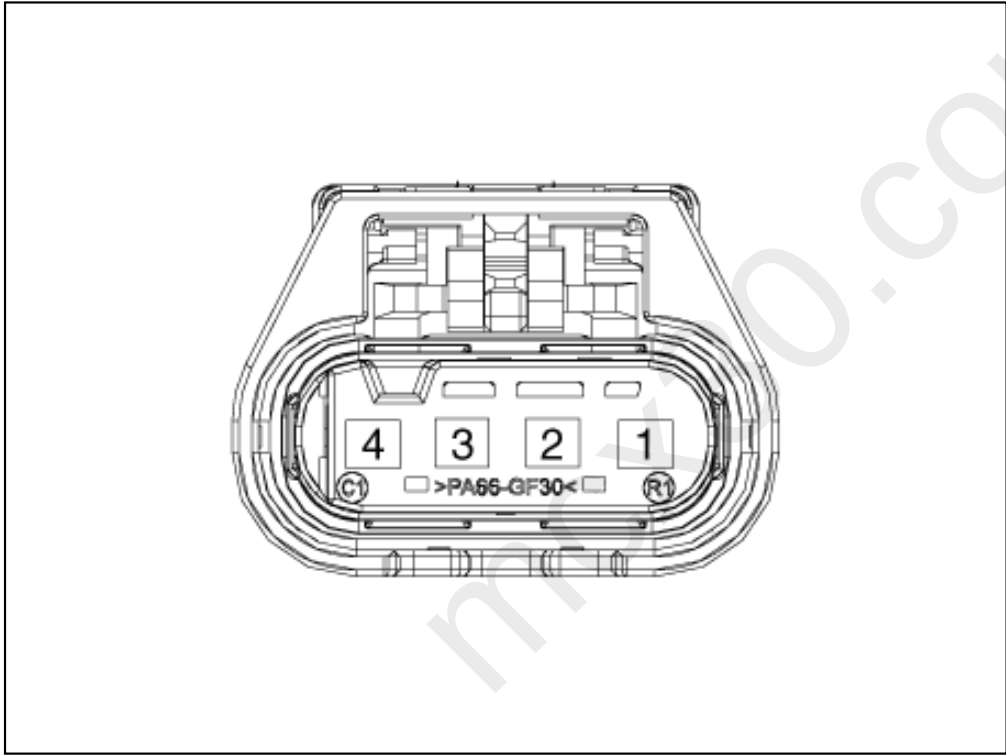
Specifications

Air Flow (kg/h)	Frequency (kHz)
-40	1.49
-20	1.59
-10	1.68
-8	1.7
-6	1.72
0	1.81
6	1.93
8	1.97
10	2.01
20	2.21
40	2.52
60	2.74
90	3.05
120	3.34
140	3.53
160	3.73
250	4.62
310	5.28
370	6.03
440	7.06
560	9.46
640	11.83

Circuit
Diagram



Harness Connector



Inspection

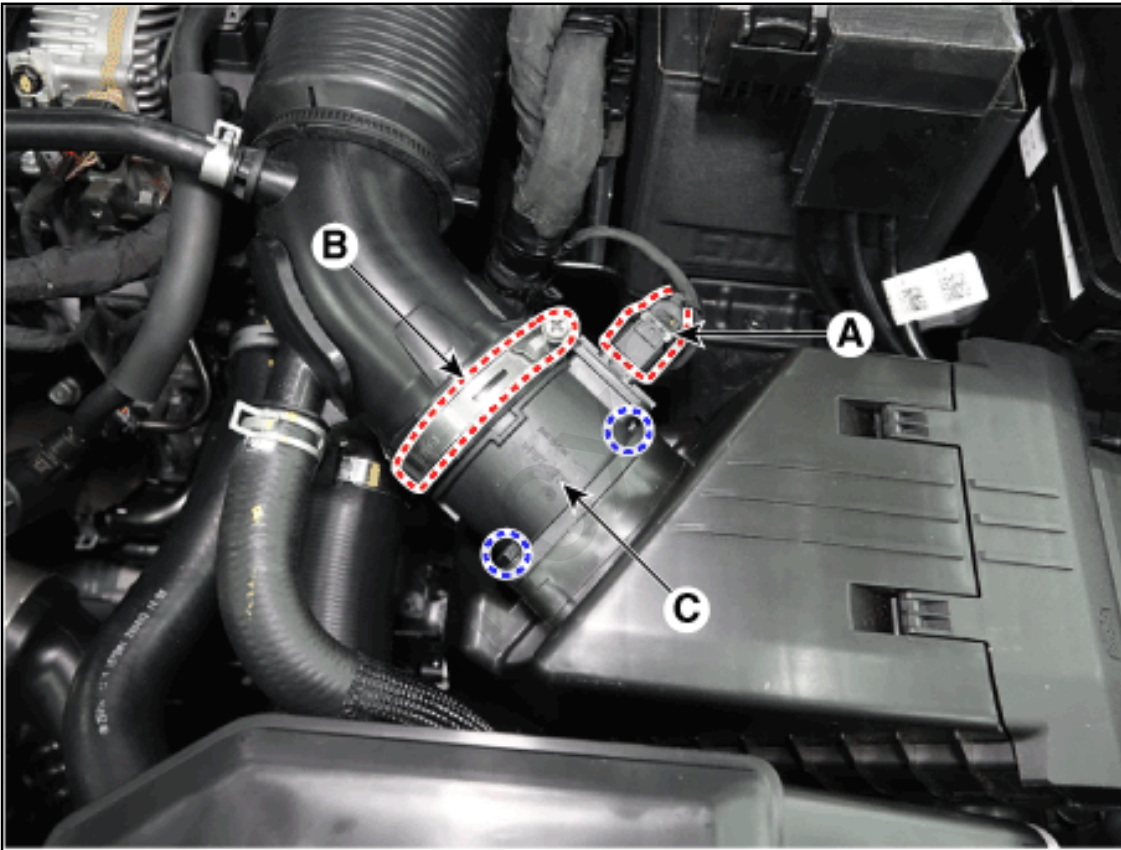
1. Check the MAFS visually.
 - Mounting direction correct.
 - Any contamination, corrosion or damage on connector.
 - Air cleaner's clogging or wet.
 - MAFS cylinder's deforming or blocking by any foreign material.
2. Check any leakage on intake system and intercooler system.

Removal

1. Turn the ignition switch OFF and disconnect the battery (-) cable.
2. Disconnect the mass air flow sensor connector (A) and the installation clamp (B).
3. Remove the mass air flow sensor (C) after loosening mounting bolt.

Tightening Torque :

9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb.ft)



Installation



- Install the component with the specified torques.
- Note that internal damage may occur when the component is dropped. In this case, use it after inspecting.
- Be careful not to damage or deformation the sensing element and front grid.
- Insert the sensor in the installation hole and be careful not to damage when installation.

1. Install in the reverse order of removal.

mcx30.com