What is a Crank Angle Sensor or a Cam Angle Sensor?

A Crank Angle Sensor or a Cam Angle Sensor is a sensor to detect the rotation of a crank or a cam shaft respectively.

A Crank Angle Sensor detects the reference position and the rotation angle of a crank shaft and the engine speed.
A Cam Angle Sensor is used to determine each cylinder providing a signal to determine the cylinder. This signal becomes a base signal in an electronic fuel injection system for fuel injection control and ignition timing control.
A Crank Angle Sensor or a Cam Angle Sensor receives changing magnetic flux due to the rotation of a rotor having a projection. It converts the flux change to a rectangular pulse signal.

Typical troubles and inspection methods

The following troubles appear concerning the Crank Angle Sensor or the Cam Angle Sensor:
● Engine starting failure, or
● Engine stall.
As an inspection method, it is necessary to check the terminal voltage wave form. Since the inspection method depends on the maker of the vehicle, check the maintenance manual of the vehicle.