

# POSITION SENSORS



ADJUSTABLE PEDAL



AUTO DOOR LOCK



BRAKE MASTER CYLINDER DIAPHRAGM



BRAKE PEDAL



EGR VALVE



MEMORY SEAT



STEERING WHEEL



TRANSFER CASE RANGE



TDC



TURBOCHARGER VANE



**ACCELERATOR PEDAL**



**ENGINE CAMSHAFT**



**ENGINE CRANKSHAFT**



**THROTTLE**

## ACCELERATOR PEDAL POSITION (APPS)

NTK accelerator pedal position sensors provide the ECM with two DC voltage signals that change as the position of the accelerator pedal changes.

Accelerator pedal position sensor failure may cause a vehicle to dangerously drop speed while operating on the road. NTK APPS are the exact original equipment design, incorporating the circuitry specified by OEMs within the sensor element to ensure consistency in signal output.

## THROTTLE POSITION (TPS)

Throttle position sensors produce a DC voltage signal telling the vehicle computer the location of the throttle plate within the throttle body.

## CAMSHAFT POSITION (CMP)

Camshaft position sensors are located along or at the front or rear of the camshaft, monitoring the rotations that camshafts make to open the intake and exhaust valves. Camshaft rotation timing is critical for the ECU, making the accuracy of the electrical signal outputs from camshaft position sensors vital to the communication between the ignition system and the vehicle computer.

## CRANKSHAFT POSITION (CKP)

The crankshaft position sensor provides an electrical signal to the ECM indicating the exact location of the crankshaft rotational position.

