

SPECIALTY SENSORS



**ENGINE INTAKE
MANIFOLD RUNNER**



ABS DECELERATION



IGNITION MISFIRE



ACCELERATION



BATTERY CURRENT



HEADLIGHT LEVEL



**TAIL LIGHT
OUTAGE**



IGNITION KNOCK



PARKING AID



SUSPENSION RIDE HEIGHT



AUTO HEADLIGHT

IGNITION KNOCK

Knock sensors are located at the engine block, either threaded into the side of the block or under the intake manifold, producing an input voltage that the ECM uses to measure engine dynamic vibration. Ignition knock sensors allow the vehicle computer to monitor the combustion chamber, advancing or delaying ignition and valve timing or injector pulse width for optimal engine performance.

PARKING AID

Located along the front and/or rear bumper, parking aid sensors emit frequencies off objects near them. This allows the vehicle's parking assist system to alert the driver of objects in the vehicle's path. Parking aid sensors are commonly replaced during collision repairs. These sensors communicate to each other; if one fails or the sensors fail to communicate, a trouble code will be set.

AUTO HEADLIGHT

Auto headlight sensors are typically located in the center of the front dash panel, providing signal outputs that indicate ambient light levels.

SUSPENSION RIDE HEIGHT

Mounted onto a control arm or strut assembly, the suspension ride height sensor sends signals to the ECU to adjust suspension settings. Road debris or unpaved roads cause wear on ride height sensors. Failure can cause the rear suspension to sag, handling concerns or vehicle stability faults.

