

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > KEEP ALIVE POWER (KAPWR)

The KAPWR provides a constant voltage input independent of ignition switch state to the PCM. This voltage is used by the PCM to maintain the KAM.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > MASS AIRFLOW RETURN (MAFRTN)

The MAFRTN is a signal return circuit from the mass airflow (MAF) sensor.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > POWER GROUND (PWRGND)

The PWRGND circuit provides a return path for the PCM vehicle power (VPWR) circuits.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > SIGNAL RETURN (SIGRTN)

The SIGRTN is a dedicated return path for VREF applied components.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > STARTER MOTOR REQUEST (SMR) CIRCUIT

The SMR circuit provides the PCM with a signal from the ignition switch to the PCM. The input is pulled high when the ignition is in the START position and the transmission range (TR) sensor ignition lockout circuit allows the starter to engage.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > VARIABLE RELUCTANCE SENSOR RETURN (VRSRTN)

The VRSRTN circuit is a dedicated return path for variable reluctance (VR) type sensors.

POWERTRAIN CONTROL HARDWARE > POWER AND GROUND SIGNALS > VEHICLE BUFFERED POWER (VBPWR)

The VBPWR is a regulated voltage supplied by the PCM to vehicle sensors. These sensors require a