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ENGINE COMPONENTS LOCATION & GENERAL DESCRIPTION

Engine Model • Hyundai / Zenith Power Products 416 DOHC •

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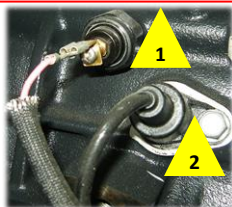
Manifold Absolute Pressure & Intake Air Temperature Sensor (MAP & IAT Sensor)
Provides instant manifold pressure & temp information to the engine's ECU.



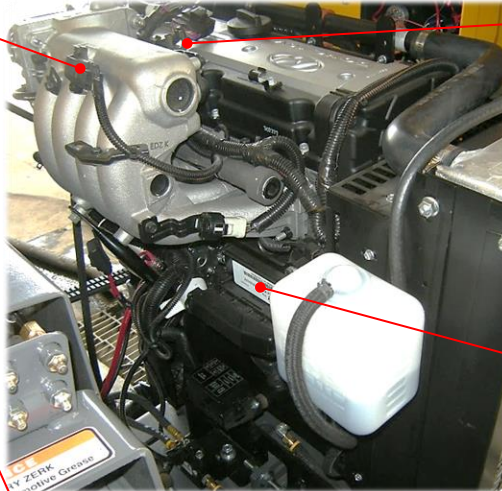
Top Dead Center/CAM Position Sensor (TDC/CMPS)
CAM & CRANK positions data to ECU together derive the current combustion cycle.



Coolant Temperature Sensor
The ECU adjusts various eng systems based on variabe coolant temperature data.



[1]- (Oil Pressure Switch, N.C.)
Sends a ground signal to the ECU in a no oil pressure condition shutting eng off.
[2]- (CRANK Position Sensor) CRANK & CAM positions data to ECU together derive the current combustion cycle.



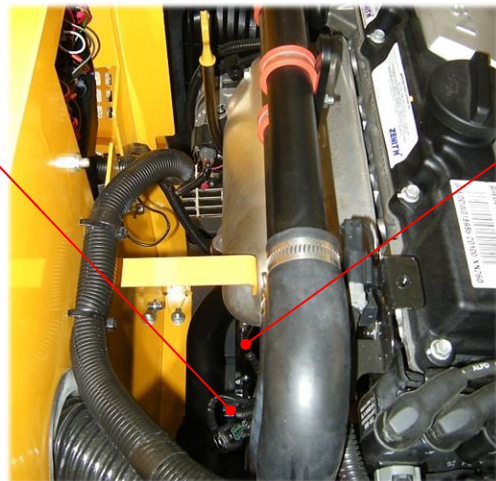
Positive Crankcase Ventilation Valve (PCV Valve)
Only one part of the PCV system whereby crankcase gases return to the air intake.



Engine Control Unit (ECU)
Controls actuators via data from a series of sensors ensuring optimal eng. performance.



Throttle Position Sensor/Idle Speed Control Actuator (TPS/ISCA) Electronic throttle control incorporates the TPS in a feedback loop enabling the control.



Oxygen Sensor 1/pre-cat (HO2S Sensor 1)
specifically used for controlling the air to fuel ratio of the engine.



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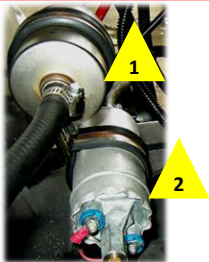
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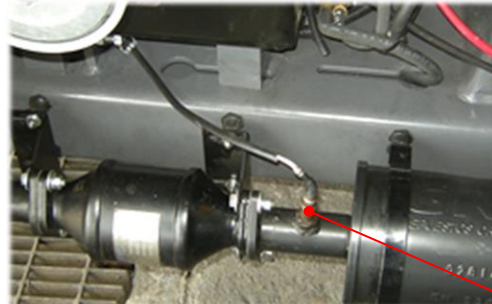
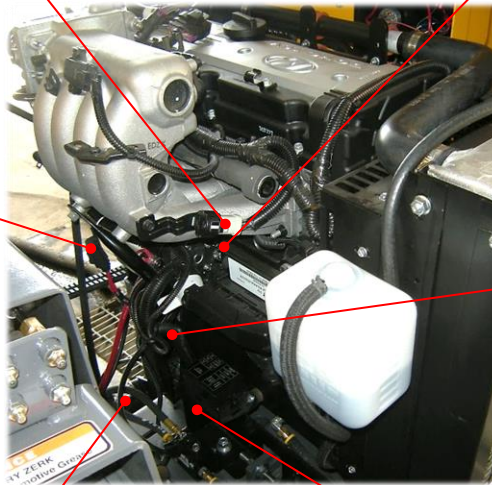
Computer interphase comm. port A connector.



(Main 25A Fuse/holder)
Primary key switch power via emergency switch.



[1] Fuel Filter & [2] Fuel Pump
ECU controls the fuel pump via a fuel pump relay. Fuel pump pressure is 49.8 PSI.



(Knock Sensor)
Senses engine vibrations caused by engine knock, ECU will adjust timing to compensate if needed.



Fuse Box & Relays



(Gasoline Fuel Rail Sensor)
ECU monitors Temperature & Pressure via this sensor.



Oxygen Sensor 2/post-cat (HO2S Sensor 2) specifically used for controlling the air to fuel ratio of the engine.