

leads into account.

- NOTE: Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.
- NOTE: Inspect connectors for signs of water ingress, and pins for damage and/or corrosion.
- NOTE: If DTCs are recorded and, after performing the pinpoint tests, a fault is not present, an intermittent concern may be the cause. Always check for loose connections and corroded terminals.
- NOTE: For a full list of engine control module (ECM) DTCs:
REFER to: [Electronic Engine Controls](#) (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Diagnosis and Testing).

DTC	Description	Possible causes	Action
P00952F	Intake air temperature (IAT) sensor 2 circuit - signal erratic	<ul style="list-style-type: none"> • NOTE: The IAT sensor 2 is part of the manifold absolute pressure temperature (MAPT) sensor • IAT sensor 2 circuit: open circuit • IAT sensor 2: short circuit to power • IAT sensor 2: short circuit to ground • IAT sensor 2 fault 	Check the IAT sensor 2 and circuits. Refer to the electrical guides. Install a new MAPT sensor if necessary. REFER to: Manifold Absolute Pressure and Temperature (MAPT) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation). Clear the DTCs and test for normal operation.
P009511	Intake air temperature (IAT) sensor 2 circuit - circuit short to ground	<ul style="list-style-type: none"> • NOTE: The IAT sensor 2 is part of the manifold absolute pressure temperature (MAPT) sensor • IAT sensor 2: short circuit to ground • IAT sensor 2 fault 	Check the IAT sensor 2 and circuits. Refer to the electrical guides. Install a new MAPT sensor if necessary. REFER to: Manifold Absolute Pressure and Temperature (MAPT) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation). Clear the DTCs and test for normal operation.
P009515	Intake air temperature (IAT) sensor 2 circuit - circuit short to battery or open	<ul style="list-style-type: none"> • NOTE: The IAT sensor 2 is part of the manifold absolute pressure temperature (MAPT) sensor • IAT sensor 2: open circuit • IAT sensor 2: short circuit to power • IAT sensor 2 fault 	Check the IAT sensor 2 and circuits. Refer to the electrical guides. Install a new MAPT sensor if necessary. REFER to: Manifold Absolute Pressure and Temperature (MAPT) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation). Clear the DTCs and test for normal operation.
P010029	Mass or volume air flow A circuit - signal invalid	<ul style="list-style-type: none"> • Restricted air intake path • Check for leak between mass air flow (MAF) sensor and turbocharger • MAF sensor fault • Turbocharger fault • Exhaust gas recirculation (EGR) valve fault 	Check the intake air system for leaks, restrictions, etc. Check for related DTCs. Rectify as necessary. Clear the DTCs and test for normal operation.
P010036	Mass or volume air flow A circuit - signal frequency too low	<ul style="list-style-type: none"> • Mass air flow (MAF) sensor circuit: short circuit to ground • MAF sensor circuit: short circuit to power • MAF sensor circuit: open circuit • MAF sensor fault 	Check the MAF sensor and circuit. Refer to the electrical guides. Install a new MAF sensor if necessary. REFER to: Mass Air Flow (MAF) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation). Clear the DTCs and test for normal operation.
P010037	Mass or volume air flow A circuit - signal frequency too high	<ul style="list-style-type: none"> • Mass air flow (MAF) sensor circuit: short circuit to ground • MAF sensor circuit: short circuit to power • MAF sensor circuit: open circuit • MAF sensor fault 	Check the MAF sensor and circuit. Refer to the electrical guides. Install a new MAF sensor if necessary. REFER to: Mass Air Flow (MAF) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation). Clear the DTCs and test for normal operation.