

			Clear the DTCs and test for normal operation. Refer to the warranty policy and procedures manual if a module is suspect.
P029C00	Cylinder 1 balance - (injector 1) restricted	<ul style="list-style-type: none"> • Injector leak • Cylinder compression low <ul style="list-style-type: none"> - Blow-by past the injector - Blow-by past the glow plug - Mechanical fault, valve, piston/ring, etc. • Injector fault 	<p>Check the injector and surrounding area for evidence of fuel leakage. Disconnect the injector and check for evidence of fuel leakage in the connector. Rectify as necessary. Clear the DTCs. Reconnect the injector and start the engine. Allow to warm up and allow to idle (cylinder balance diagnosis is now active). If the DTC resets, check for blow-by etc. and rectify as necessary. Clear the DTCs and recheck. Carry out a compression test only if the DTC resets. If the above tests are all within range, install a new injector.</p> <p>REFER to: Fuel Injector (303-04A Fuel Charging and Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation).</p> <p>Clear the DTCs and test for normal operation.</p>
P02A000	Cylinder 2 balance - (injector 4) restricted	<ul style="list-style-type: none"> • Injector leak • Cylinder compression low <ul style="list-style-type: none"> - Blow-by past the injector - Blow-by past the glow plug - Mechanical fault, valve, piston/ring, etc. • Injector fault 	<p>Check the injector and surrounding area for evidence of fuel leakage. Disconnect the injector and check for evidence of fuel leakage in the connector. Rectify as necessary. Clear the DTCs. Reconnect the injector and start the engine. Allow to warm up and allow to idle (cylinder balance diagnosis is now active). If the DTC resets, check for blow-by etc. and rectify as necessary. Clear the DTCs and recheck. Carry out a compression test only if the DTC resets. If the above tests are all within range, install a new injector.</p> <p>REFER to: Fuel Injector (303-04A Fuel Charging and Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation).</p> <p>Clear the DTCs and test for normal operation.</p>
P02A400	Cylinder 3 balance - (injector 2) restricted	<ul style="list-style-type: none"> • Injector leak • Cylinder compression low <ul style="list-style-type: none"> - Blow-by past the injector - Blow-by past the glow plug - Mechanical fault, valve, piston/ring, etc. • Injector fault 	<p>Check the injector and surrounding area for evidence of fuel leakage. Disconnect the injector and check for evidence of fuel leakage in the connector. Rectify as necessary. Clear the DTCs. Reconnect the injector and start the engine. Allow to warm up and allow to idle (cylinder balance diagnosis is now active). If the DTC resets, check for blow-by etc. and rectify as necessary. Clear the DTCs and recheck. Carry out a compression test only if the DTC resets. If the above tests are all within range, install a new injector.</p> <p>REFER to: Fuel Injector (303-04A Fuel Charging and Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation).</p> <p>Clear the DTCs and test for normal operation.</p>
P02A800	Cylinder 4 balance - (injector 3) restricted	<ul style="list-style-type: none"> • Injector leak • Cylinder compression low <ul style="list-style-type: none"> - Blow-by past the injector - Blow-by past the glow plug - Mechanical fault, valve, piston/ring, etc. • Injector fault 	<p>Check the injector and surrounding area for evidence of fuel leakage. Disconnect the injector and check for evidence of fuel leakage in the connector. Rectify as necessary. Clear the DTCs. Reconnect the injector and start the engine. Allow to warm up and allow to idle (cylinder balance diagnosis is now active). If the DTC resets, check for blow-by etc. and rectify as necessary. Clear the DTCs and recheck. Carry out a compression test only if the DTC resets. If the above tests are all within range, install a new injector.</p> <p>REFER to: Fuel Injector (303-04A Fuel Charging and Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation).</p> <p>Clear the DTCs and test for normal operation.</p>
P033529	Condition and fitment of the crankshaft position (CKP) sensor A circuit - signal invalid	<ul style="list-style-type: none"> • CKP sensor • CKP sensor circuit: short circuit to ground • CKP sensor circuit: short circuit to power • CKP sensor circuit: open circuit • CKP sensor fault • CKP sensor wheel fault 	<p>Check the CKP sensor and circuits. Refer to the electrical guides. Check the sensor and wheel for correct installation and condition. Rectify as necessary. Install a new CKP sensor if necessary.</p>
P033531	Condition and fitment of the crankshaft position (CKP) sensor A circuit - no signal	<ul style="list-style-type: none"> • CKP sensor • CKP sensor circuit: short circuit to ground • CKP sensor circuit: short circuit to power • CKP sensor circuit: open 	<p>REFER to: Crankshaft Position (CKP) Sensor (303-14 Electronic Engine Controls - 2.4L Duratorq-TDCi HPCR (103kW/140PS) - Puma, Removal and Installation).</p> <p>Clear the DTCs and test for normal operation.</p>