

SPN	FMI	Variable Description	J2012 DTC Code
29	0	DTC 2116: FPP2 higher than IVS	2116
29	1	DTC 2140: FPP2 lower than IVS	2140
29	3	DTC 2128: FPP2 voltage high	2128
29	4	DTC 2127: FPP2 voltage low	2127
51	0	DTC 221: TPS1-2 higher than expected	0221
51	1	DTC 121: TPS1-2 lower than expected	0121
51	3	DTC 123: TPS1 voltage high	0123
51	4	DTC 122: TPS1 voltage low	0122
51	7	DTC 2112: Unable to reach higher TPS	2112
51	7	DTC 2111: Unable to reach lower TPS	2111
51	31	DTC 2135: TPS1/2 simultaneous voltages out-of-range	2135
84	8	DTC 502: Roadspeed input loss of signal	0502
91	0	DTC 2115: FPP1 higher than IVS	2115
91	1	DTC 2139: FPP1 lower than IVS	2139
91	3	DTC 2122: FPP1 voltage high	2122
91	4	DTC 2123: FPP1 voltage low	2123
91	16	DTC 2126: FPP1-2 higher than expected	2126
91	18	DTC 2121: FPP1-2 lower than expected	2121
91	19	DTC 1630: J1939 ETC message receipt loss	1630
91	31	DTC 1121: FPP1/2 simultaneous voltages out-of-range (redundancy lost)	1121
94	0	DTC 88 Fuel pressure higher than expected	0088
94	1	DTC 87 Fuel pressure lower than expected	0087
94	3	DTC 92: FP high voltage	0092
94	4	DTC 91: FP low voltage	0091
100	0	DTC 521: Oil pressure sender high pressure	0521
100	1	DTC 524: Oil pressure low	0524
100	1	DTC 524: Oil pressure sender low pressure stage 2	0524
100	3	DTC 523: Oil pressure sender high voltage	0523
100	4	DTC 522: Oil pressure sender low voltage	0522
100	18	DTC 520: Oil pressure sender low pressure stage 1	0520
105	0	DTC 127: IAT higher than expected stage 2	0127
105	3	DTC 113: IAT voltage high	0113
105	4	DTC 112: IAT voltage low	0112
105	15	DTC 111: IAT higher than expected stage 1	0111
106	4	DTC 107: MAP voltage low	0107
106	16	DTC 108: MAP pressure high	0108
108	0	DTC 2229: BP pressure high	2229
108	1	DTC 129: BP pressure low	0129
110	0	DTC 217: ECT higher than expected stage 2	0217
110	0	DTC 1522: CHT higher than expected stage 2	1522
110	1	DTC 9999: Water flow fault	0128
110	3	DTC 118: ECT voltage high	0118
110	4	DTC 117: ECT voltage low	0117
110	7	DTC 9999: Failed to reach operating temperature	0128
110	15	DTC 116: ECT higher than expected stage 1	0116
110	16	DTC 1521: CHT higher than expected stage 1	1521
168	15	DTC 563: Vbat voltage high	0563

168	17	<i>DTC 562: Vbat voltage low</i>	0562
515	0	<i>DTC 1112: RPM above spark rev limit level</i>	1112
515	15	<i>DTC 219: RPM higher than max allowed govern speed</i>	0219
515	16	<i>DTC 1111: RPM above fuel rev limit level</i>	1111
515	31	<i>DTC 1113: RPM higher than expected</i>	1113
628	13	<i>DTC 601: Microprocessor failure - FLASH</i>	0601
629	31	<i>DTC 606: Microprocessor failure - COP</i>	0606
629	31	<i>DTC 1612: Microprocessor failure - RTI 1</i>	1612
629	31	<i>DTC 1613: Microprocessor failure - RTI 2</i>	1613
629	31	<i>DTC 1614: Microprocessor failure - RTI 3</i>	1614
629	31	<i>DTC 1615: Microprocessor failure - A/D</i>	1615
629	31	<i>DTC 1616: Microprocessor failure - Interrupt</i>	1616
630	12	<i>DTC 604: Microprocessor failure - RAM</i>	0604
636	2	<i>DTC 336: CRANK input signal noise</i>	0336
636	4	<i>DTC 337: Crank signal loss</i>	0337
636	8	<i>DTC 16: Crank and/or cam could not synchronize during start</i>	0016
639	12	<i>DTC 1626: CAN-J1939 Tx fault</i>	1626
639	12	<i>DTC 1627: CAN-J1939 Rx fault</i>	1627
639	13	<i>DTC 1628: J1939 CAN address / engine-number conflict</i>	1628
645	3	<i>DTC 2619: Tach output short to power</i>	2619
645	4	<i>DTC 2618: Tach output ground short</i>	2618
651	5	<i>DTC 261: Injector 1 open or short to ground</i>	0261
651	6	<i>DTC 262: Injector 1 coil shorted</i>	0262
652	5	<i>DTC 264: Injector 2 open or short to ground</i>	0264
652	6	<i>DTC 265: Injector 2 coil shorted</i>	0265
653	5	<i>DTC 267: Injector 3 open or short to ground</i>	0267
653	6	<i>DTC 268: Injector 3 coil shorted</i>	0268
654	5	<i>DTC 270: Injector 4 open or short to ground</i>	0270
654	6	<i>DTC 271: Injector 4 coil shorted</i>	0271
655	5	<i>DTC 273: Injector 5 open or short to ground</i>	0273
655	6	<i>DTC 274: Injector 5 coil shorted</i>	0274
656	5	<i>DTC 276: Injector 6 open or short to ground</i>	0276
656	6	<i>DTC 277: Injector 6 coil shorted</i>	0277
657	5	<i>DTC 279: Injector 7 open or short to ground</i>	0279
657	6	<i>DTC 280: Injector 7 coil shorted</i>	0280
658	5	<i>DTC 282: Injector 8 open or short to ground</i>	0282
658	6	<i>DTC 283: Injector 8 coil shorted</i>	0283
695	9	<i>DTC 1629: J1939 TSC1 message receipt loss</i>	1629
697	3	<i>DTC 1632: PWM1-Gauge1 short to power</i>	1632
697	5	<i>DTC 1631: PWM1-Gauge1 open / ground short</i>	1631
698	3	<i>DTC 1634: PWM2-Gauge2 short to power</i>	1634
698	5	<i>DTC 1633: PWM2-Gauge2 open / ground short</i>	1633
699	3	<i>DTC 1636: PWM3-Gauge3 short to power</i>	1636
699	5	<i>DTC 1635: PWM3-Gauge3 open / ground short</i>	1635
700	3	<i>DTC 1638: PWM4 short to power</i>	1638
700	5	<i>DTC 1637: PWM4 open / ground short</i>	1637
701	3	<i>DTC 1511: AUX analog Pull-Up 1 high voltage</i>	1511
701	4	<i>DTC 1512: AUX analog Pull-Up 1 low voltage</i>	1512

702	3	DTC 1513: AUX analog Pull-Up 2 high voltage	1513
702	4	DTC 1514: AUX analog Pull-Up 2 low voltage	1514
703	3	DTC 1517: AUX analog Pull-Up 3 high voltage	1517
703	4	DTC 1518: AUX analog Pull-Up 3 low voltage	1518
704	3	DTC 1541: AUX analog Pull-Up/Down 1 high voltage	1541
704	4	DTC 1542: AUX analog Pull-Up/Down 1 low voltage	1542
705	3	DTC 1543: AUX analog Pull-Up/Down 2 high voltage	1543
705	4	DTC 1544: AUX analog Pull-Up/Down 2 low voltage	1544
706	3	DTC 1545: AUX analog Pull-Up/Down 3 high voltage	1545
706	4	DTC 1546: AUX analog Pull-Up/Down 3 low voltage	1546
707	3	DTC 1551: AUX digital 1 high voltage	1551
707	4	DTC 1552: AUX digital 1 low voltage	1552
708	3	DTC 1553: AUX digital 2 high voltage	1553
708	4	DTC 1554: AUX digital 2 low voltage	1554
709	3	DTC 1555: AUX digital 3 high voltage	1555
709	4	DTC 1556: AUX digital 3 low voltage	1556
710	3	DTC 1515: AUX analog Pull-Down 1 high voltage	1515
710	4	DTC 1516: AUX analog Pull-Down 1 low voltage	1516
711	3	DTC 1561: AUX analog Pull-Down 2 high voltage	1561
711	4	DTC 1562: AUX analog Pull-Down 2 low voltage	1562
712	3	DTC 1563: AUX analog Pull-Down 3 high voltage	1563
712	4	DTC 1564: AUX analog Pull-Down 3 low voltage	1564
713	3	DTC 1547: AUX analog Pull-Up/Down 4 high voltage	1547
713	4	DTC 1548: AUX analog Pull-Up/Down 4 low voltage	1548
714	3	DTC 1567: AUX analog Pull-Up/Down 6 high voltage	1567
714	4	DTC 1568: AUX analog Pull-Up/Down 6 low voltage	1568
715	3	DTC 1569: AUX analog Pull-Up/Down 7 high voltage	1569
715	4	DTC 1571: AUX analog Pull-Up/Down 7 low voltage	1571
716	3	DTC 1572: AUX digital 4 high voltage	1572
716	4	DTC 1573: AUX digital 4 low voltage	1573
717	3	DTC 1565: AUX analog Pull-Up/Down 5 high voltage	1565
717	4	DTC 1566: AUX analog Pull-Up/Down 5 low voltage	1566
723	2	DTC 341: CAM input signal noise	0341
723	4	DTC 342: Loss of CAM input signal	0342
731	2	DTC 326: Knock1 excessive or erratic signal	0326
731	4	DTC 327: Knock1 sensor open or not present	0327
920	3	DTC 1643: Buzzer control short to power	1643
920	4	DTC 1641: Buzzer control ground short	1641
920	5	DTC 1642: Buzzer open	1642
924	3	DTC 1640: PWM5 short to power	1640
924	5	DTC 1639: PWM5 open / ground short	1639
925	3	DTC 1662: PWM6 short to power	1662
925	5	DTC 1661: PWM6 open / ground short	1661
926	3	DTC 1664: PWM7 short to power	1664
926	5	DTC 1663: PWM7 open / ground short	1663
1079	3	DTC 643: Sensor supply voltage 1 high	0643
1079	4	DTC 642: Sensor supply voltage 1 low	0642
1079	31	DTC 1611: Sensor supply voltage 1 and 2 out-of-range	1611
1080	3	DTC 653: Sensor supply voltage 2 high	0653
1080	4	DTC 652: Sensor supply voltage 2 low	0652

1110	31	<i>DTC 1625: J1939 shutdown request</i>	1625
1213	3	<i>DTC 1645: MIL control short to power</i>	1645
1213	4	<i>DTC 1644: MIL control ground short</i>	1644
1213	5	<i>DTC 650: MIL open</i>	0650
1268	5	<i>DTC 2300: Spark coil 1 primary open or short to ground</i>	2300
1268	6	<i>DTC 2301: Spark coil 1 primary shorted</i>	2301
1268	31	<i>DTC 0350: External spark module failure</i>	0350
1268	31	<i>DTC 0351: External spark module coil 1 failure</i>	0351
1269	5	<i>DTC 2303: Spark coil 2 primary open or short to ground</i>	2303
1269	6	<i>DTC 2304: Spark coil 2 primary shorted</i>	2304
1269	31	<i>DTC 0352: External spark module coil 2 failure</i>	0352
1270	5	<i>DTC 2306: Spark coil 3 primary open or short to ground</i>	2306
1270	6	<i>DTC 2307: Spark coil 3 primary shorted</i>	2307
1270	31	<i>DTC 0353: External spark module coil 3 failure</i>	0353
1271	5	<i>DTC 2309: Spark coil 4 primary open or short to ground</i>	2309
1271	6	<i>DTC 2310: Spark coil 4 primary shorted</i>	2310
1271	31	<i>DTC 0354: External spark module coil 4 failure</i>	0354
1272	5	<i>DTC 2312: Spark coil 5 primary open or short to ground</i>	2312
1272	6	<i>DTC 2313: Spark coil 5 primary shorted</i>	2313
1272	31	<i>DTC 0355: External spark module coil 5 failure</i>	0355
1273	5	<i>DTC 2315: Spark coil 6 primary open or short to ground</i>	2315
1273	6	<i>DTC 2316: Spark coil 6 primary shorted</i>	2316
1273	31	<i>DTC 0356: External spark module coil 6 failure</i>	0356
1274	5	<i>DTC 2318: Spark coil 7 primary open or short to ground</i>	2318
1274	6	<i>DTC 2319: Spark coil 7 primary shorted</i>	2319
1274	31	<i>DTC 0357: External spark module coil 7 failure</i>	0357
1275	5	<i>DTC 2321: Spark coil 8 primary open or short to ground</i>	2321
1275	6	<i>DTC 2322: Spark coil 8 primary shorted</i>	2322
1275	31	<i>DTC 0358: External spark module coil 8 failure</i>	0358
1321	3	<i>DTC 617: Start relay coil short to power</i>	0617
1321	4	<i>DTC 616: Start relay ground short</i>	0616
1321	5	<i>DTC 615: Start relay coil open</i>	0615
1323	11	<i>DTC 1311: Cylinder 1 misfire detected</i>	1311
1323	31	<i>DTC 301: Cylinder 1 emissions/catalyst damaging misfire</i>	0301
1324	11	<i>DTC 1312: Cylinder 2 misfire detected</i>	1312
1324	31	<i>DTC 302: Cylinder 2 emissions/catalyst damaging misfire</i>	0302
1325	11	<i>DTC 1313: Cylinder 3 misfire detected</i>	1313
1325	31	<i>DTC 303: Cylinder 3 emissions/catalyst damaging misfire</i>	0303
1326	11	<i>DTC 1314: Cylinder 4 misfire detected</i>	1314
1326	31	<i>DTC 304: Cylinder 4 emissions/catalyst damaging misfire</i>	0304
1327	11	<i>DTC 1315: Cylinder 5 misfire detected</i>	1315
1327	31	<i>DTC 305: Cylinder 5 emissions/catalyst damaging misfire</i>	0305
1328	11	<i>DTC 1316: Cylinder 6 misfire detected</i>	1316
1328	31	<i>DTC 306: Cylinder 6 emissions/catalyst damaging misfire</i>	0306

1329	11	<i>DTC 1317: Cylinder 7 misfire detected</i>	1317
1329	31	<i>DTC 307: Cylinder 7 emissions/catalyst damaging misfire</i>	0307
1330	11	<i>DTC 1318: Cylinder 8 misfire detected</i>	1318
1330	31	<i>DTC 308: Cylinder 8 emissions/catalyst damaging misfire</i>	0308
1347	5	<i>DTC 628: Fuel-pump high-side open or short to ground</i>	0628
1347	6	<i>DTC 629: Fuel-pump high-side short to power</i>	0629
1348	3	<i>DTC 629: Fuel pump relay coil short to power</i>	0629
1348	4	<i>DTC 628: Fuel pump relay control ground short</i>	0628
1348	5	<i>DTC 627: Fuel pump relay coil open</i>	0627
1485	3	<i>DTC 687: Power relay coil short to power</i>	0687
1485	4	<i>DTC 686: Power relay ground short</i>	0686
1485	5	<i>DTC 685: Power relay coil open</i>	0685
1634	2	<i>DTC 1674: Hardware ID failure: MOT update required</i>	1674
1634	13	<i>DTC 1673: Calibration configuration error</i>	1673
1675	3	<i>DTC 1675: Start command stuck active</i>	1675
2634	3	<i>DTC 9999: Power relay off high voltage</i>	0690
2634	4	<i>DTC 9999: Power relay on low voltage</i>	0689
2646	3	<i>DTC 1666: PWM8 short to power</i>	1666
2646	5	<i>DTC 1665: PWM8 open / ground short</i>	1665
2647	3	<i>DTC 1670: PWM9 short to power</i>	1670
2647	5	<i>DTC 1669: PWM9 open / ground short</i>	1669
3050	11	<i>DTC 420: Catalyst inactive on gasoline (Bank 1)</i>	0420
3051	11	<i>DTC 430: Catalyst inactive on gasoline (Bank 2)</i>	0430
3056	3	<i>DTC 8906: UEGO1 return voltage shorted high</i>	8906
3056	4	<i>DTC 8907: UEGO1 return voltage shorted low</i>	8907
3217	3	<i>DTC 8910: UEGO1 sense cell voltage high</i>	8910
3217	4	<i>DTC 8911: UEGO1 sense cell voltage low</i>	8911
3217	5	<i>DTC 134: EGO1 open / lazy</i>	0134
3218	3	<i>DTC 8908: UEGO1 pump voltage shorted high</i>	8908
3218	4	<i>DTC 8909: UEGO1 pump voltage shorted low</i>	8909
3221	3	<i>DTC 8904: UEGO1 cal resistor voltage high</i>	8904
3221	4	<i>DTC 8905: UEGO1 cal resistor voltage low</i>	8905
3221	31	<i>DTC 8901: UEGO1 microprocessor internal fault</i>	8901
3222	0	<i>DTC 8916: UEGO1 sense cell impedance high</i>	8916
3222	3	<i>DTC 8902: UEGO1 heater supply high voltage</i>	8902
3222	3	<i>DTC 0032: EGOH1 short to power</i>	0032
3222	3	<i>DTC 9999: UEGO1 heater short to power</i>	8938
3222	4	<i>DTC 8903: UEGO1 heater supply low voltage</i>	8903
3222	4	<i>DTC 0031: EGOH1 open/ground short</i>	0031
3222	4	<i>DTC 9999: UEGO1 heater open/ground short</i>	8937
3222	10	<i>DTC 8914: UEGO1 sense cell slow to warm up</i>	8914
3225	0	<i>DTC 8917: UEGO1 pump cell impedance high</i>	8917
3225	1	<i>DTC 8918: UEGO1 pump cell impedance low</i>	8918
3225	3	<i>DTC 8912: UEGO1 pump voltage at high drive limit</i>	8912
3225	4	<i>DTC 8913: UEGO1 pump voltage at low drive limit</i>	8913
3225	10	<i>DTC 8915: UEGO1 pump cell slow to warm up</i>	8915
3227	5	<i>DTC 154: EGO2 open / lazy</i>	0154
3232	3	<i>DTC 0052: EGOH2 short to power</i>	0052

3232	3	DTC 9999: UEGO2 heater short to power	8941
3232	4	DTC 0051: EGOH2 open/ground short	0051
3232	4	DTC 9999: UEGO2 heater open/ground short	8940
3256	5	DTC 140: EGO3 open / lazy	0140
3261	3	DTC 0038: EGOH3 short to power	0038
3261	4	DTC 0037: EGOH3 open/ground short	0037
3266	5	DTC 160: EGO4 open / lazy	0160
3271	3	DTC 0058: EGOH4 short to power	0058
3271	4	DTC 0057: EGOH4 open/ground short	0057
3673	3	DTC 223: TPS2 voltage high	0223
3673	4	DTC 222: TPS2 voltage low	0222
4236	0	DTC 1155: Closed-loop gasoline bank1 high	1155
4236	1	DTC 1156: Closed-loop gasoline bank1 low	1156
4237	0	DTC 171: Adaptive-learn gasoline bank1 high	0171
4237	1	DTC 172: Adaptive-learn gasoline bank1 low	0172
4238	0	DTC 1157: Closed-loop gasoline bank2 high	1157
4238	1	DTC 1158: Closed-loop gasoline bank2 low	1158
4239	0	DTC 174: Adaptive-learn gasoline bank2 high	0174
4239	1	DTC 175: Adaptive-learn gasoline bank2 low	0175
67000	3	DTC 9999: AUX analog Pull-Up/Down 9 high voltage	1595
67001	4	DTC 9999: AUX analog Pull-Up/Down 9 low voltage	1596
67002	3	DTC 9999: AUX analog Pull-Up/Down 10 high voltage	1597
67003	4	DTC 9999: AUX analog Pull-Up/Down 10 low voltage	1598
67004	3	DTC 9999: AUX analog Pull-Up/Down 11 high voltage	1599
67005	4	DTC 9999: AUX analog Pull-Up/Down 11 low voltage	1600
67006	3	DTC 9999: AUX analog Pull-Up/Down 12 high voltage	1601
67007	4	DTC 9999: AUX analog Pull-Up/Down 12 low voltage	1602
67008	3	DTC 9999: AUX analog Pull-Up/Down 13 high voltage	1603
67009	4	DTC 9999: AUX analog Pull-Up/Down 13 low voltage	1604
67010	3	DTC 9999: AUX analog Pull-Up/Down 14 high voltage	1605
67011	4	DTC 9999: AUX analog Pull-Up/Down 14 low voltage	1606
67012	3	DTC 9999: AUX analog Pull-Up/Down 15 high voltage	1607
67013	4	DTC 9999: AUX analog Pull-Up/Down 15 low voltage	1608
67014	3	DTC 9999: AUX analog Pull-Up/Down 16 high voltage	1609
67015	4	DTC 9999: AUX analog Pull-Up/Down 16 low voltage	1610
67016	3	DTC 9999: AUX analog Pull-Up/Down 17 high voltage	1676
67017	4	DTC 9999: AUX analog Pull-Up/Down 17 low voltage	1677
67018	3	DTC 9999: AUX analog Pull-Up/Down 18 high voltage	1678
67019	4	DTC 9999: AUX analog Pull-Up/Down 18 low voltage	1679
67020	3	DTC 9999: AUX analog Pull-Up/Down 19 high voltage	1680
67021	4	DTC 9999: AUX analog Pull-Up/Down 19 low voltage	1681
67022	3	DTC 9999: AUX analog Pull-Up/Down 20 high voltage	1682
67023	4	DTC 9999: AUX analog Pull-Up/Down 20 low voltage	1683
67024	3	DTC 9999: AUX analog Pull-Up/Down 21 high voltage	1684
67025	4	DTC 9999: AUX analog Pull-Up/Down 21 low voltage	1685
67026	3	DTC 9999: AUX analog Pull-Up/Down 22 high voltage	1686
67027	4	DTC 9999: AUX analog Pull-Up/Down 22 low voltage	1687
67028	3	DTC 9999: AUX analog Pull-Up/Down 23 high voltage	1688
67029	4	DTC 9999: AUX analog Pull-Up/Down 23 low voltage	1689
67030	3	DTC 9999: AUX analog Pull-Up/Down 24 high voltage	1690

67031	4	<i>DTC 9999: AUX analog Pull-Up/Down 24 low voltage</i>	1691
67032	3	<i>DTC 9999: AUX analog Pull-Up/Down 25 high voltage</i>	1692
67033	4	<i>DTC 9999: AUX analog Pull-Up/Down 25 low voltage</i>	1693
67034	3	<i>DTC 9999: AUX digital 13 high voltage</i>	1694
67035	4	<i>DTC 9999: AUX digital 13 low voltage</i>	1695
67036	3	<i>DTC 9999: AUX digital 14 high voltage</i>	1696
67037	4	<i>DTC 9999: AUX digital 14 low voltage</i>	1697
67038	3	<i>DTC 9999: AUX digital 15 high voltage</i>	1698
67039	4	<i>DTC 9999: AUX digital 15 low voltage</i>	1699
67040	3	<i>DTC 9999: AUX digital 16 high voltage</i>	1700
67041	4	<i>DTC 9999: AUX digital 16 low voltage</i>	1701
67042	3	<i>DTC 9999: AUX digital 17 high voltage</i>	1702
67043	4	<i>DTC 9999: AUX digital 17 low voltage</i>	1703
67044	3	<i>DTC 9999: AUX digital 18 high voltage</i>	1704
67045	4	<i>DTC 9999: AUX digital 18 low voltage</i>	1705
67046	3	<i>DTC 9999: AUX digital 19 high voltage</i>	1706
67047	4	<i>DTC 9999: AUX digital 19 low voltage</i>	1707
67049	31	<i>DTC 9999: UEGO2 microprocessor internal fault</i>	8919
67050	3	<i>DTC 9999: UEGO2 heater supply high voltage</i>	8920
67051	4	<i>DTC 9999: UEGO2 heater supply low voltage</i>	8921
67052	3	<i>DTC 9999: UEGO2 cal resistor voltage high</i>	8922
67053	4	<i>DTC 9999: UEGO2 cal resistor voltage low</i>	8923
67054	3	<i>DTC 9999: UEGO2 return voltage shorted high</i>	8924
67055	4	<i>DTC 9999: UEGO2 return voltage shorted low</i>	8925
67056	3	<i>DTC 9999: UEGO2 pump voltage shorted high</i>	8926
67057	4	<i>DTC 9999: UEGO2 pump voltage shorted low</i>	8927
67058	3	<i>DTC 9999: UEGO2 sense cell voltage high</i>	8928
67059	4	<i>DTC 9999: UEGO2 sense cell voltage low</i>	8929
67060	3	<i>DTC 9999: UEGO2 pump voltage at high drive limit</i>	8930
67061	4	<i>DTC 9999: UEGO2 pump voltage at low drive limit</i>	8931
67062	10	<i>DTC 9999: UEGO2 sense cell slow to warm up</i>	8932
67063	10	<i>DTC 9999: UEGO2 pump cell slow to warm up</i>	8933
67064	0	<i>DTC 9999: UEGO2 sense cell impedance high</i>	8934
67065	0	<i>DTC 9999: UEGO2 pump cell impedance high</i>	8935
67066	1	<i>DTC 9999: UEGO2 pump cell impedance low</i>	8936
520197	2	<i>DTC 331: Knock2 excessive or erratic signal</i>	0331
520197	4	<i>DTC 332: Knock2 sensor open or not present</i>	0332
520199	11	<i>DTC 2120: FPP1 invalid voltage and FPP2 disagrees with IVS (redundancy lost)</i>	2120
520199	11	<i>DTC 2125: FPP2 invalid voltage and FPP1 disagrees with IVS (redundancy lost)</i>	2125
520199	11	<i>DTC 1122: FPP1/2 do not match each other or IVS (redundancy lost)</i>	1122
520201	5	<i>DTC 509: IAC coil open/short</i>	0509
520201	6	<i>DTC 508: IAC ground short</i>	0508
520202	3	<i>DTC 1574: AUX digital 5 high voltage</i>	1574
520202	4	<i>DTC 1575: AUX digital 5 low voltage</i>	1575
520203	3	<i>DTC 1576: AUX digital 6 high voltage</i>	1576
520203	4	<i>DTC 1577: AUX digital 6 low voltage</i>	1577
520204	3	<i>DTC 1578: AUX digital 7 high voltage</i>	1578

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520204	4	<i>DTC 1579: AUX digital 7 low voltage</i>	<i>1579</i>
520205	3	<i>DTC 1581: AUX digital 8 high voltage</i>	<i>1581</i>
520205	4	<i>DTC 1582: AUX digital 8 low voltage</i>	<i>1582</i>
520206	3	<i>DTC 1583: AUX digital 9 high voltage</i>	<i>1583</i>
520206	4	<i>DTC 1584: AUX digital 9 low voltage</i>	<i>1584</i>
520207	3	<i>DTC 1585: AUX digital 10 high voltage</i>	<i>1585</i>
520207	4	<i>DTC 1586: AUX digital 10 low voltage</i>	<i>1586</i>
520208	3	<i>DTC 1587: AUX analog Pull-Up/Down 8 high voltage</i>	<i>1587</i>
520208	4	<i>DTC 1588: AUX analog Pull-Up/Down 8 low voltage</i>	<i>1588</i>
520209	3	<i>DTC 1589: AUX digital 11 high voltage</i>	<i>1589</i>
520209	4	<i>DTC 1591: AUX digital 11 low voltage</i>	<i>1591</i>
520210	3	<i>DTC 1592: AUX digital 12 high voltage</i>	<i>1592</i>
520210	4	<i>DTC 1593: AUX digital 12 low voltage</i>	<i>1593</i>
520401	0	<i>DTC 1182: Fuel impurity level high</i>	<i>1182</i>
520800	7	<i>DTC 11: Intake cam / distributor position error</i>	<i>0011</i>
520801	7	<i>DTC 24: Exhaust cam position error</i>	<i>0024</i>