

2007-2008 XL Typical Scan Values for DT

After reviewing published service literature and the DTII for 2007-2008 Sportster Models, we noticed some discrepancies in the Typical Scan Values. The attached tables are best used for referencing these values.

Additionally some 2008 Touring Model values as listed on DTII are being revised. The following corrected values will be added.

| | |
|------------------|-----------------|
| TP % | 3.2 - 5.5% |
| TP D.C.Volts | .2 - 1.2 D.C.V. |
| F. Spark Advance | 12 - 24 DEG. |
| R. Spark Advance | 12 - 24 DEG. |

You will also temporarily see that TGS2 values are presented as a % when they are in fact D.C. Voltage.

As a reminder, these are typical scan values for a stock engine at operating temperature at idle. If the engine is above idle rpm or below operating temperature DTII will show a red **X** next to some values, this is not necessarily indicating a fault, only that the values are outside the typical range for a stock engine@ idle and operating temp.

2007 – 2008 – 1200CC

| ITEM | MIN VALUE | MAX VALUE | HOT IDLE VALUE (>160C) |
|-------------------------------|------------------|------------------|----------------------------------|
| MAP Sensor* (MAP Load) | 10 kPa | 104 kPa | 11.812 in HG (40 kPa) |
| | 0 volts | 5.1 volts | .1-5.1 volts |
| TP Sensor | 0% | 100% | 0% |
| | 0.2 volts | 4.8 volts | .2-.6V volts |
| IAC Pintle | 0 steps | 150 steps | 25-40 steps (34 nominal) |
| RPM | 0 | 6000 | 1000 |
| ET Sensor | Ambient | 590 °F (310 °C) | 329-410 °F (165-210 °C) |
| | 3.86 volts | 0.18 volts | 1.49-0.67 volts |
| IAT Sensor | Ambient | 284°F (140°C) | 95-212 °F (35-100°C) |
| | 3.64 volts | 0.33 volts | 2.98-0.80 volts |
| INJ PW Front | 0 | 50 msec | 2.100-2.400 msec |
| INJ PW Rear | 0 | 50 msec | 2.100-2.400 msec |
| Spark Adv Front | 0 | 50° | 10° |
| Spark Adv Rear | 0 | 50° | 10° |
| VSS | 0 mph | 119 mph | 0 mph |
| Battery Voltage | 10 volts | 15 volts | 13.4 – 14.5 volts |
| ENG RUN | Off | Run | Run |
| Idle RPM | 950 | 1400 | 1000 |
| | | | |
| | | | |

2007 – 2008 – 883CC

| ITEM | MIN VALUE | MAX VALUE | HOT IDLE VALUE (>160C) |
|-----------------------------------|------------------|--------------------|----------------------------------|
| MAP Sensor* (MAP Load) | 10 kPa | 104 kPa | 11.812 in HG (42-46 kPa) |
| | 0 volts | 5.1 volts | .1 - 5.1 volts |
| TP Sensor | 0% | 100% | 0% |
| | 0.2 volts | 4.8 volts | .2-.6V volts |
| IAC Pintle | 0 steps | 150 steps | 15-30 steps (22 nominal) |
| RPM | 0 | 6000 | 1000 |
| ET Sensor | Ambient | 590 °F (310 °C) | 329-410 °F (165-210 °C) |
| | 3.86 volts | 0.18 volts | 1.49-0.67 volts |
| IAT Sensor | Ambient | 284°F (140°C) | 95-212 °F (35-100°C) |
| | 3.64 volts | 0.33 volts | 2.98-0.80 volts |
| INJ PW Front | 0 | 50 msec | 1.900-2.300 msec |
| INJ PW Rear | 0 | 50 msec | 1.700-2.100 msec |
| Spark Adv Front | 0 | 50° | 10° |
| Spark Adv Rear | 0 | 50° | 10° |
| VSS | 0 mph | 119 mph | 0 mph |
| Battery Voltage | 10 volts | 15 volts | 13.4 – 14.5 volts |
| ENG RUN | Off | Run | Run |
| Idle RPM | 1000 | 1500 | 1000 |
| | | | |
| | | | |