

Harley Davidson

Diagnostic Codes

To Access Codes:

1. Turn the ignition switch to OFF and Run/Stop switch to Run.
2. Push the odometer reset button in and hold.
3. Turn the ignition switch to ON and release the odometer reset button. Background lighting should light up, the speedometer needle should sweep it's full range and the indicator lamps (battery, security, low fuel, check engine, and cruise) should illuminate. The word "**diag**" should appear.
4. Push the odometer reset button once time and you will see the selection menu "**PSSPt**" with the first **P** flashing.
5. Each letter relates to an area of the diagnostics module. The flashing module is the one you must check. To move from one letter (module) to the next, push the odometer reset button once. (From **P** to **S** to **SP** to **t** and back to **P**, etc.)

P	ECM/ICM (Electronic Control Module [EFI] / Ignition Control Module [Carbureted])
S	TSM/TSSM (Turn Signal/ Turn Signal Security Module)
SP	Speedometer
T	Tachometer

To obtain the Diagnostic Trouble Code (DTC) within a specific area of diagnostics, push and hold the odometer reset button for 5 seconds and then release it. If there are any DTCs, the code will be displayed, or the word "**None**" will appear if there are no DTCs. Push the odometer reset button again to view more codes if they exist.

1. Record the codes.
2. DTCs are not to be cleared; press and release the odometer reset button. The part number of the module will be displayed.

Note: To determine if a code is current or historic, clear the displayed code by pushing/holding the odometer reset button (for longer than 5 seconds) until '**Clear**' appears. Release the odometer reset button. Turn OFF the ignition switch. Run your bike, shut it down, and then recheck the DTCs by repeating steps 1-3. If the code is current, it will reappear.

4. Press and release the odometer reset button to continue to the next module.
5. Turn the ignition switch to OFF. On models not equipped with a tachometer, "**No Rsp**" will appear when the tachometer identifier is selected. "No Rsp" will also appear if the run/off switch is in the off position when performing this procedure.

References

HFSM Hands Free Security Module

TSM Turn signal module

Priority	DTC	Fault condition
----------	-----	-----------------

- | Priority | DTC | Fault condition |
|----------|--------|---|
| 1. | P0605 | ECM FLASH Memory Error |
| 2. | P0603 | ECM EEPROM Memory Error |
| 3. | U1300 | ECM Serial Data Low |
| 4. | U1301 | ECM Serial Data High |
| 5. | U1097 | Loss of Speedometer Serial Data to ECM |
| 6. | U1064 | Loss of TSM/FSFM Serial Data to ECM |
| 7. | P1003 | System relay contacts open |
| 8. | P1002 | System Relay Coil High/Shorted |
| 9. | P1001 | System Relay Coil Open/Low |
| 10. | P1004 | System Relay Contacts Closed |
| 11. | P1009 | Incorrect Password |
| 12. | P1010 | Missing Password |
| 13. | P06415 | V+Vref 1 Out Of Range |
| 14. | P06515 | V+Vref 2 Out Of Range |
| 15. | P0373 | CKP Sensor Intermittent |
| 16. | P0107 | Map Sensor Open/Low |
| 17. | P0108 | Map Sensor High |
| 18. | P0374 | CKP Sensor Synch Error |
| 19. | P1600 | EFI Module Processor Internal Error |
| 20. | P1270 | TGS Validation Error |
| 21. | P2107 | EFI Module Processor Internal Fault |
| 22. | P2122 | TGS1 Low/Open |
| 23. | P2123 | TGS1 High |
| 24. | P2127 | TGS2 Low/Open |
| 25. | P2128 | TGS2 High |
| 26. | P2138 | TGS Correlation Error (Twist grip sensor) |
| 27. | P0120 | TPS1 Range Error |
| 28. | P0220 | TPS2 Range Error |
| 29. | P0122 | TPS1 Low |
| 30. | P0123 | TPS2 High/Open |
| 31. | P0222 | TPS2 Low |
| 32. | P0223 | TPS2 High/Open |
| 33. | P2135 | TPS Correlation Error |
| 34. | P2119 | EFI Motor Throttle Body Range Performance |
| 35. | P2100 | EFI Motor Circuit Open |
| 36. | P2101 | EFI Motor Circuit Range Performance (Actuation Error) |
| 37. | P2102 | EFI Motor Circuit Low |
| 38. | P2103 | EFI Motor Circuit High |
| 39. | P2176 | EFI Closed Position Not Learned |
| 40. | P1514 | Air Flow Fault |
| 41. | P2105 | EFI Forced engine shutdown |
| 42. | P1501 | Jiffy Stand Sensor Low |
| 43. | P1502 | Jiffy Stand Sensor High |
| 44. | P0572 | Brake Switch Low |
| 45. | P0117 | ET Sensor Low |
| 46. | P0118 | ET Sensor High |
| 47. | P0112I | AT Voltage Low |
| 48. | P0113I | AT Voltage Open/High |
| 49. | P1351 | Front Ignition Coil Driver Open/Low |
| 50. | P1354 | Rear Ignition Coil Driver Open/Low |
| 51. | P1352 | Front Ignition Coil Driver High/Shorted |
| 52. | P1355 | Rear Ignition Coil Driver High/Shorted |
| 53. | P1357 | Front Cylinder Combustion Intermittent |
| 54. | P1358 | Rear Cylinder Combustion Intermittent |
| 55. | P0261 | Front Injector Open/Low |
| 56. | P0263 | Rear Injector Open/Low |
| 57. | P0262 | Front Injector High |
| 58. | P0264 | Rear Injector High |
| 59. | P0562 | Battery Voltage Low |
| 60. | P0563 | Battery Voltage High |
| 61. | P0501 | VSS Sensor Low |
| 62. | P0502 | VSS Sensor High/Open. |
| 63. | P1356 | Rear Cylinder No Combustion |
| 64. | P1353 | Front Cylinder No Combustion |
| 65. | P0444 | Purge Solenoid Open/Low |
| 66. | P0445 | Purge Solenoid High |
| 67. | P1475 | Exhaust Actuation Position Error |
| 68. | P1477 | Exhaust Actuator Open/Low |
| 69. | P1478 | Exhaust Actuator Shorted/High |
| 70. | P0131 | Front Oxygen Sensor Low |
| 71. | P0151 | Rear Oxygen Sensor Low |
| 72. | P0132 | Front Oxygen Sensor High |
| 73. | P0152 | Rear Oxygen Sensor High |
| 74. | P0134 | Front Oxygen Sensor Inactive |
| 75. | P0154 | Rear Oxygen Sensor Inactive |
| 76. | P1510 | EFI Limited Performance Mode |
| 77. | P1511 | EFI Power Management Mode |
| 78. | P1512 | EFI Forced Idle Mode |
| 79. | P0577 | Cruise Control Input High |

References

HFSM	Hands Free Security Module
-------------	----------------------------

TSM	Turn signal module
------------	--------------------

Priority	DTC	Fault condition
----------	-----	-----------------

1. U1300 Serial Data Low
2. U1301 Serial Data High
3. U1016 Loss of ECM Serial Data
4. U1255 Serial Data Error
5. B1142 Smart Security System Internal Fault
6. B1135 Accelerometer Failed
7. B1136(HFSM) Accelerometer Tip Test Error
8. B1151 Bank Angle Sensor(BAS) Short to Ground
9. B1152 Bank Angle Sensor(BAS) Short to Battery
10. B1153 Bank Angle Sensor(BAS) High
11. B1154 Clutch Switch Input Short to Ground
12. B1155 Neutral Switch Input Short to Battery
13. B1134 Starter Output High
14. B1121(TSM) Left Turn Output Fault - B1121(HFSM)
Left Turn Output Open
15. B1122(TSM) Right Turn Output Fault -
B1122(HFSM) Right Turn Output Open
16. B1123(HFSM) Left Turn Output Short to Ground
17. B1124(HFSM) Right Turn Output Short to Ground
18. B1125(HFSM) Left Turn Output Short to Battery
19. B1126(HFSM) Right Turn Output Short to Battery
20. B1143(HFSM) Security Antenna Short to Ground
21. B1144(HFSM) Security Antenna Short to Battery
22. B1145(HFSM) Security Antenna Open
23. B0563 Battery Voltage High
24. B1131(HFSM) Alarm Output Low
25. B1132(HFSM) Alarm Output High
26. B1141(TSM) Ignition Switch Low/Open
B1141(HFSM) Ignition Switch Low/Open