

Parameter Identification (PID)

Description

The parameter identification (PID) mode allows access to powertrain control module (PCM) information. This includes analog and digital signal inputs and outputs along with calculated values and the system status. There are 2 types of PID lists available and both are used throughout this manual. The first is the generic (J1979) OBD PID list. This is a standard set of PIDs that all scan tools must be able to access. The second is a Ford-specific (J2190) list which can be accessed by an appropriate scan tool. When accessing any of these PIDs, the values are continuously updated. The generic or Ford PID list provides definitions and values in appropriate units. For more information, refer to the Society of Automotive Engineers (SAE) document J2205.

Generic OBD PID List

An X in the Freeze Frame column denotes both a mode 1 and mode 2 PID (real time and freeze frame).

Freeze Frame	Acronym	Description	Measurement Units
X	AAT	Ambient Air Temperature	Degrees
X	AIR	Secondary Air Status	On/Off
X	APP_D	Accelerator Pedal Position D	%
X	APP_E	Accelerator Pedal Position E	%
X	APP_F	Accelerator Pedal Position F	%
X	CATEMP11	Catalyst Temperature Bank 1, Sensor 1	Degrees
X	CATEMP12	Catalyst Temperature Bank 1, Sensor 2	Degrees
X	CATEMP21	Catalyst Temperature Bank 2, Sensor 1	Degrees
X	CATEMP22	Catalyst Temperature Bank 2, Sensor 2	Degrees
	CLR_DST	Distance since codes cleared	Km
	CCNT	Continuous DTC Counter	Unitless
X	ECT	Engine Coolant Temperature	Degrees
X	EGR_PCT	Commanded EGR	%
X	EGR_ERR	EGR Error	%

X	EVAP_PCT	Commanded Evaporative Purge	%
X	EVAP_VP	Evaporative System Vapor Pressure	Pa
X	EQ_RAT	Commanded Equivalence Ratio	Unit
X	FUEL SYS1	Fuel System Feedback Control Status-Bank 1	OL/CL/OL DRIVE ^a /OL FAULT/ CL FAULT
X	FUEL SYS2	Fuel System Feedback Control Status-Bank 2	OL/CL/OL DRIVE ^a /OL FAULT/ CL FAULT
	IAT	Intake Air Temperature	Degrees
X	LOAD ^b	Calculated Engine Load	%
X	LOAD_ABS	Absolute Load Value	%
X	LONGFT1	Current Bank 1 Fuel Trim Adjustment (kamref1) From Stoichiometry Which Is Considered Long Term	%
X	LONGFT2	Current Bank 2 Fuel Trim Adjustment (kamref2) From Stoichiometry Which Is Considered Long Term	%
X	MAF	Mass Air Flow Rate	gm/s-lb/min
	MIL_DIST	Distance traveled with MIL on	Kilometer
X	O2S11	Bank 1 Upstream Oxygen Sensor (11)	Volts
X	O2S12	Bank 1 Downstream Oxygen Sensor (12)	Volts
X	O2S13	Bank 1 Downstream Oxygen Sensor (13)	Volts
X	O2S21	Bank 2 Upstream Oxygen Sensor (21)	Volts
X	O2S22	Bank 2 Downstream Oxygen Sensor (22)	Volts
X	O2S23	Bank 2 Downstream Oxygen Sensor (23)	Volts
	OBDSUP	On Board Diagnostic System	OBD II OBD I OB Combination of or None
X	PTO	Power Take-Off Status	On/Off
X	RPM	Revolutions per Minute	RPM
X	RUNTM	Run time	Seconds
X	SHRTFT1	Current Bank Fuel Trim Adjustment (lambse1) From Stoichiometry Which Is Considered Short Term	%
X	SHRTFT2	Current Bank 2 Fuel Trim Adjustment (lambse1) From Stoichiometry Which Is Considered Short	%

		Term	
X	SPARKADV	Spark Advance Requested	Degrees
X	SPARK_ACT	Spark Advance Actual	Degrees
%	TAC_PCT	Commanded Throttle Actuator	%
X	TP	Throttle Position	%
X	TP_R	Relative Throttle Position	%
	WARM_UPS	Number of warm ups since codes cleared	Units
X	VSS	Vehicle Speed Sensor	km/h-mph

^a OL = Open loop, have not satisfied conditions for closed loop.

^b Percent engine load adjusted for atmospheric pressure.

CL = Closed loop using HO2S(s) as feedback for fuel control.

OL DRIVE = Open loop due to driving conditions (heavy acceleration).

OL FAULT = Open loop due to fault with all upstream HO2S sensors.

CL FAULT = Closed loop fuel control, but fault with one upstream HO2S sensor on dual bank vehicles.

Ford PID List

Note: This is not a complete list of Ford PIDs available. This is a list of Ford PIDs in this manual.

Acronym	Description	Ford Units
4X4L	Requested 4-Wheel Drive Input	On/Off
ACCS	Air Conditioning Cycling Switch Input	On/Off
ACP	A/C Head Pressure Switch Input	Open/Closed
ACP	A/C Head Pressure Switch Input	Volts
ACP	A/C Head Pressure Transducer Sensor	kPa/psi
AIR	Secondary AIR Pump Control	On/Off
AIRF	Secondary AIR Fault Indicator	Yes/No
AIRM	Secondary AIR Pump Monitor	On/Off
ALTLAMP	Generator Indicator Fault	Yes/No
ALT SEN	Alternator Sensor Line	On/Off
ALT V	Generator Output Voltage	Volts

APP	Accelerator Pedal Position	Volts
APP1	Accelerator Pedal Position 1	Volts
APP2	Accelerator Pedal Position 2	Volts
APP3	Accelerator Pedal Position 3	Volts
BARO	Barometric Pressure (may be software determined)	Hz
BARO V	Barometric Pressure Signal Voltage	Volts
BPA	Brake Pressure Applied	On/Off
BPP/BOO	Brake Pedal Position/Brake On-Off Switch Input	On/Off
CAMDCR	Commanded Duty Cycle for VCT Solenoid	%
CAMERRR	VCT Error in Crankshaft Degrees	Degrees
CAS GND	PCM Case Ground	Volts
CCS	Coast Clutch Solenoid Control	On/Off
CHT	Cylinder Head Temperature Input	Degrees
CHT	Cylinder Head Temperature Input	Volts
CMPFM	Camshaft Position Sensor Fault Mode	Yes/No
CMPFM2	Camshaft Position Sensor 2 Fault Mode	Yes/No
CPP	Clutch Pedal Position Switch Input	On/Off
CPP/PNP	Clutch Pedal Position/Park Neutral Position Switch Input	On/Off
DPFEGR	Differential Pressure Feedback EGR Input	Volts
ECT	Engine Coolant Temperature Input	Degrees
ECT V	Engine Coolant Temperature Input	Volts
EGRBARO	Enable BARO Read (instead of EGR pressure)	Yes/No
EGRMC1	EGR Motor Control Output Command	On/Off
EGRMC2	EGR Motor Control Output Command	On/Off
EGRMC3	EGR Motor Control Output Command	On/Off
EGRMC4	EGR Motor Control Output Command	On/Off
EGRMDS	Electric EGR Motor Commanded in Steps	Steps
EGRVR	EGR Valve Vacuum Control	%
EOT	Engine Oil Temperature Sensor Input	Degrees
EOT	Engine Oil Temperature Sensor Input Volts	Volts
EOT_F	Engine Oil Temperature Fault Detection	Yes/No
EPC	Electronic Pressure Control	kPa/PSI
EPC V	Electronic Pressure Control	Volts

EVAPCPF	Evaporative Emissions Canister Purge Fault	Yes/No
EVAPCV	Evaporative Emissions Canister Purge Vent Control	%
EVAPCV_F	Evaporative Emissions Canister Purge Vent Fault	Yes/No
EVAPPDC	Evaporative Emissions Canister Purge Control	%
EVAPPF	Evaporative Purge Flow Input	Volts
EVAPSOAK	Evaporative Emissions Monitor Soak Conditions are Met	Yes/No
EVAPVMA	Evaporative Vapor Management Valve Internal Circuit Monitor	Volts
EVMV	Electronic Vapor Management Valve Commanded Current	Current (mA)
FANDC	Variable Speed Fan Duty Cycle	%
FANSS	Fan Speed Sensor Signal	RPM
FANVARF	Variable Speed Fan Output Fault	Yes/No
FLI	Fuel Level Indicator Input	%
FLI	Fuel Level Indicator Input	Volts
FP	Fuel Pump Duty Cycle	%
FP M	Fuel Pump Secondary Monitor	%
FP_F	Fuel Pump Output Fault	Yes/No
FPM	Fuel Pump Secondary Monitor	On/Off
FRP	Fuel Rail Pressure Input	kPa/PSI
FRP_DSD	Fuel Rail Pressure Desired	kPa/PSI
FRP	Fuel Rail Pressure Input	Volts
FRT	Fuel Rail Temperature	Degrees
FRT	Fuel Rail Temperature Voltage	Volts
FTP	Fuel Tank Pressure Input	kPa/in-H2O
FTP	Fuel Tank Pressure Input	Volts
FUELPW1	Injector Pulse Width Bank 1	Milliseconds
FUELPW2	Injector Pulse Width Bank 2	Milliseconds
GEAR	Transmission Gear Status	Gear
GENF	Generator Output Fault Detection	Yes/No
GENFDC	Generator Field Control Output	%
GENVDSD	Generator Desired Voltage	Volts
GENMN (GFS)	Generator Field Signal Monitor	%
GEN F	Generator 2 Fault	Yes/No
HFC	High Speed Fan Control	On/Off

HFC_F	High Speed Fan Control Fault	Yes/No
HTRCM11	Bank 1 Sensor 1 HO2S Heater Control	On/Off
HTRCM11F	Bank 1 Sensor 1 HO2S Heater Circuit Fault	Yes/No
HTRCM12	Bank 1 Sensor 2 HO2S Heater Control	On/Off
HTRCM12F	Bank 1 Sensor 2 HO2S Heater Circuit Fault	Yes/No
HTRCM13	Bank 1 Sensor 3 HO2S Heater Control	On/Off
HTRCM13F	Bank 1 Sensor 3 HO2S Heater Circuit Fault	Yes/No
HTRCM21	Bank 2 Sensor 1 HO2S Heater Control	On/Off
HTRCM21F	Bank 2 Sensor 1 HO2S Heater Circuit Fault	Yes/No
HTRCM22	Bank 2 Sensor 2 HO2S Heater Control	On/Off
HTR2CM2	Bank 2 Sensor 2 HO2S Heater Circuit Fault	Yes/No
HTRX1	HO2S Sensor 1 (Upstream) Heater Control	On/Off
HTRX2	HO2S Sensor 2 (Downstream) Heater Control	On/Off
IAC	Idle Air Control	%
IAT	Intake Air Temperature Input	Degrees
IAT V	Intake Air Temperature Input Volts	Volts
IAT2	Intake Air Temperature Sensor 2 Input	Degrees
IAT2 V	Intake Air Temperature Sensor 2 Input	Volts
IGN 1-8_F	Ignition Timing Fault Detected (cylinders 1-8)	Fault/No Fault
IGNPCM_F	Spark Conduction Capture Circuit Fault Detected	Fault/No Fault
IMRC	Intake Manifold Runner Control	On/Off
IMRC F	Intake Manifold Runner Control Fault	Yes/No
IMRCM	Intake Manifold Runner Control Monitor Input Bank 1	Volts
IMRCM2	Intake Manifold Runner Control Monitor Input Bank 2	Volts
IMTV	Intake Manifold Tuning Valve Control	%
IMTVF	Intake Manifold Tuning Valve Control Fault	Yes/No
INJ1_F-8_F	Fuel Injector Primary Fault (cylinders 1- 8)	Yes/No
INJ9_F-10_F	Fuel Injector Primary Fault (cylinders 9 and 10)	Yes/No
ISS	Intermediate/Input Speed Shaft	Hz/RPM
KNOCK 1	Knock Sensor Input Bank 1	Volts
KNOCK 2	Knock Sensor Input Bank 2	Volts
LFC	Low Speed Fan Control	On/Off
LFC_F	Low Speed Fan Control Fault	Yes/No

LOAD	Calculated Engine Load	%
LONGFT1	Long Term Fuel Trim Bank 1	%
LONGFT2	Long Term Fuel Trim Bank 2	%
MAF	Mass Airflow Rate Input	gm/s
MAF V	Mass Airflow Rate Input	Volts
MAF V	Mass Airflow Rate Input (before FMEM substitutions)	Volts
MAP	Intake Manifold Absolute Pressure	Hz
MAP V	Intake Manifold Absolute Pressure (analog)	Volts
MFC	Medium Speed Fan Control	On/Off
MFC_F	Medium Speed Fan Control Fault	Yes/No
MIL	Malfunction Indicator Lamp Control	On/Off
MFF RPM	Engine RPM at the Time of Misfire	RPM
MFF LOAD	Engine Load at the Time of Misfire	%
MFF VSS	Vehicle Speed at the Time of Misfire	km/h-mph
MFF IAT	Intake Air Temperature at the Time of Misfire	Degrees
MFF SOAK	Engine-Off Soak Time at the Time of Misfire	Minutes
MFF RNTM	Engine Running Time at the Time of Misfire	Minutes
MFF EGR	EGR DPFE Sensor at the Time of Misfire	Volts
MFF TP	Throttle Position at Time of Misfire	Volts
MFF T CNT	Number of Driving Cycles at the Time of Misfire (at Least One 1,000 Rev Block)	No. Trips
MFF PNP	1= in Drive During the Time of Misfire	Mode
MP LRN	1= Misfire Wheel Profile Learned in KAM	Mode
OCTADJ	Octane Adjust Status	Open/Closed
OCTADJS	Octane Adjust Software Status	Retard/No Retard
O2S11	Bank 1 Sensor 1 HO2S Input	Volts
O2S12	Bank 1 Sensor 2 HO2S Input	Volts
O2S13	Bank 1 Sensor 3 HO2S Input	Volts
O2S21	Bank 2 Sensor 1 HO2S Input	Volts
O2S22	Bank 2 Sensor 2 HO2S Input	Volts
O2HTR13	Bank 1 Sensor 3 HO2S Heater Control	On/Off
OSS	Output Shaft Speed	RPM
PIP	Profile Ignition Pickup Input	On/Off

PSP	Power Steering Pressure Switch Input	High/Low
PSP V	Power Steering Pressure Input	Volts
PSP V	Power Steering Pressure Input	Volts
PTO	Power Take Off Status Input	On/Off
PTO LOAD	Power Take Off Engage Input	Yes/No
PTOIR_V	Power Take Off RPM Select Input	Volts
PTOIL	Power Take Off Indicator Lamp Output	On/Off
PTOIL_F	Power Take Off Indicator Lamp Fault Output	Yes/No
RCAM	VCT Solenoid Commanded in Crank Shaft Degrees	Degrees
REM-PWM_DC1	Rear Electronic Module - Pulse Width Modulated Duty Cycle	%
REV	Transmission Reverse Switch Input	On/Off
RPM	Engine Speed Based Upon CKP Input	RPM
SCCS	Speed Control Input Switch	Volts
SCICP	Supercharger Intercooler Pump Control	On/Off
SCICPF	Supercharger Intercooler Pump Control Fault	Yes/No
SHRTFT1	Short Term Fuel Trim	%
SHRTFT2	Short Term Fuel Trim	%
SIL	Shift Indicator Light	On/Off
SPARKADV	Spark Advance Desired	Degrees
SPKDUR 1-4	Spark Duration (cylinders 1-4)	Milliseconds
SPKDUR 5-8	Spark Duration (cylinders 5-8)	Milliseconds
SS1	Shift Solenoid 1 Control	On/Off
SS2	Shift Solenoid 2 Control	On/Off
SS3	Shift Solenoid 3 Control	On/Off
TANKPR	Fuel Tank Pressure Transducer	Pressure
TCC	Torque Converter Clutch Control	%
TCCA	Torque Converter Clutch Control Internal Circuit Monitor	On/Off
TCIL	Transmission Control Indicator Lamp Clutch Control Status	On/Off
TCS	Transmission Control Switch (TCS)	On/Off
TFT	Transmission Fluid Temperature Input	Degrees
TFT	Transmission Fluid Temperature Input	Volts
TIREREV	Active Tire Size	Revs/Mile

THTRC	Thermostat Heater Control	%
TP	Throttle Position	%
TP MODE	Throttle Position Mode	C/T, P/T, WOT
TP	Throttle Position Input	Volts
TP1	Throttle Position 1 Voltage	Volts
TP2	Throttle Position 2 Voltage	Volts
TPB	Secondary Throttle Position Input	Volts
TPREL	Lowest Steady TP Voltage Since Engine Start (RATCH)	Volts
TR	Transmission Selector Position Input Status	Position
TR V	Transmission Selector Position Input Status	Volts
TR D	Transmission Selector Position Input Status (digital)	Binary
TSS	Turbine Shaft Speed/Input Shaft Speed	RPM
VCTA	VCT Control Circuit Monitor	On/Off
VCTENA	Conditions Correct to Enable VCT	Yes/No
VOLTDS	Desired Voltage	Volts
VFCD	Variable Speed Fan Duty Cycle	%
VFCF	Variable Speed Fan Output Fault	Yes/No
VPWR	Vehicle Power Voltage	Volts
VREF	Vehicle Reference Voltage	Volts
VSS	Vehicle Speed	km/h-mph
WAC/ACCR	A/C Clutch Command	On/Off
WAC_F	WOT A/C Primary Circuit Fault	Yes/No
