

Parameter Identification (PID)

The Parameter Identification (PID) mode allows access to certain data values, analog and digital inputs and outputs, calculated values, and system status information. Throughout the manual, there will be references to PID values. PID Data Monitor and Record can be accessed from the Rotunda New Generation Star (NGS) Tester 007-00500 (or equivalent) through the Diagnostic Data Link menu.

Selecting Parameter Identification (PID)

Connect the NGS Tester to the DLC under the dash. Turn off accessories. If vehicle is equipped with an auxiliary powertrain control (rpm control), it must be turned off to perform self tests.

- Perform the necessary vehicle preparation and visual inspection. Refer to [Quick Test Operation](#) .
- Select VEHICLE & ENGINE SELECTION menu.
- SELECT NEW VEHICLE, YEAR & MODEL.
- Select DIAGNOSTIC DATA LINK.
- Select PCM — POWERTRAIN CONTROL MODULE.
- Select PID/DATA MONITOR AND RECORD.
- Turn key on or start vehicle.
- Follow operating instructions from the menu.
- Select the PIDs, press START to begin monitoring.

Parameter Identification (PID) List

Acronym	Description	Measurement Units
4x4L	4x4 Low Switch	ON/OFF
ACCS	Air Conditioning Clutch Status	ON/OFF
AP	Accel Pedal Position Sensor	Volts
ARPMDES	Ancillary Engine Speed Desired	RPM
BARO	Barometric Pressure Sensor	PSI
BARO V	Barometric Pressure Sensor Actual	Volts
BOO	Brake ON/OFF Switch	ON/OFF
BPA	Brake Pressure Applied	ON/OFF
CCS	Coast Clutch Solenoid	ON/OFF
CPP	Clutch Pedal Position	ON/OFF
CPP/TCS	Clutch Pedal Position/TCS	ON/OFF
CRUISE	Cruise Control Mode (Driving)	ON/STNDBY/TAPUP/TAPDN
DTC CNT	Diagnostic Trouble Code Count	DTC No.
EBP	Exhaust Back Pressure	PSI (Absolute)
EBP V	Exhaust Back Pressure Actual	Volts
EOT	Engine Oil Temperature	°F
EPC*	Electronic Pressure Control	PSI
EPC V	Electronic Pressure Control Actual	Volts
EPR	Exhaust Pressure Regulator	Percent
FUEL PW	Fuel Pulse Width	Milliseconds

GEAR	Transmission Gear E4OD Only (Driving)	Trans. Gear
GPC	Glow Plug Control Duty Cycle	Percent
GPC TM	Glow Plug Control Time	Seconds
GPL TM	Glow Plug Lamp Time	Seconds
IAT*	Intake Air Temperature	Degrees
IAT V	Intake Air Temperature Actual	Volts
ICP	Injector Control Pressure Sensor	PSI
ICP V	Injection Control Pressure Actual	Volts
IPR	Injector Control Pressure Regulator	Percent
IVS	Idle Validation Switch	ON/OFF
MAP	Manifold Absolute Pressure Sensor	PSI (Absolute)
MAP H	Manifold Absolute Pressure Actual	Hz
MFDES	Mass Fuel Desired	Milligrams
MGP	Manifold Gauge Pressure	PSI
PBA	Parking Brake Applied	ON/OFF
RPM	Engine Speed	RPM
SCCS	Speed Control Command Switch	Volts
SCCS M	Speed Control Command Switch Mode	Mode
SS1	Shift Solenoid No. 1 — E4OD Only	ON/OFF
SS2	Shift Solenoid No. 2 — E4OD Only	ON/OFF
TCC	Torque Converter Clutch	ON/OFF
TCIL	Transmission Control Indicator Lamp	ON/OFF
TCS	Transmission Control Switch	ON/OFF
TFT V*	Transmission Fluid Temperature Sensor Actual	Volts
TORQUE	Engine Torque	Lb/Ft
TPREL	Low Idle Throttle Position	V
TR	Transmission Range Sensor Position	PRNDL
TR V	Transmission Ranger Sensor Actual	Volts
VFDES	Volume Fuel Desired	Cubic Millimeters
VPWR	Vehicle Power Supply	Volts
VREF	Vehicle Reference Voltage	Volts
VS SET	Vehicle Speed Setting	MPH
VSS	Vehicle Speed Sensor	MPH

* Designates PIDs that show PCM calculated values during fault.

NGS TESTER — DRIVER-OPERATED CONTROLS CHECK

PID	Operator's Setting	NGS Tester Reading	EEC Pin	Voltage	Pinpoint Test
AP	Foot OFF of Accelerator	Approx. 0.6V	89	Approx. 0.6V	E
	Foot ON at WOT	Approx. 3.8 V		Approx.	

				3.8V	
IVS	Foot OFF of Accelerator Foot ON Accelerator	OFF ON	5	0V B+	AA
BOO	Foot ON Service Brake Foot OFF Service Brake	ON OFF	92	B+ 0V	K
BPA	Foot ON Service Brake Foot OFF Service Brake	ON OFF	31	0V B+	P
CPP/TCS	(M5OD) Clutch Depressed Foot OFF Clutch Pedal	ON OFF	29	0V B+	N
PBA	Parking Brake ON Parking Brake OFF	ON OFF	4	0V B+	Q
CPP/TCS	(E4OD) OD CNCL Button Held In OD CNCL Button Released	ON OFF	29	B+ 0 V	*
TR	(E4OD) PRNDL in P PRNDL in R PRNDL in N PRNDL in OD PRNDL in OD with OD Cancel Light ON PRNDL in L2 PRNDL in L1	P/N REV NTRL OD DRIVE MAN2 MAN1	64	4.45V 3.64V 2.87V 2.87V 2.13V 1.40V 0.71V	*
TCIL	(E4OD) After Key ON Push OD Cancel (Latch) Push OD Cancel (Unlatch)	OFF ON OFF	79	0V B+ 0V	*
SCCS M	(Speed Control) After Key ON Speed Control OFF Speed Control ON SET/ACCEL COAST RESUME	OPEN OFF ON SET AC COAST RESUME	61	6.68V 0V B+ 2.74V 0.68V 4.66V	F
CRUISE OFF	(Speed Control/When Driving Only) OFF ON SET/ACCEL (After Pressing) COAST (After Pressing)	OFF STNDBY Tap Up (Active) Tap Down (Active)	61	0V B+ 2.74V 0.68V	F
4x4L	(Transfer Case Shifter) 4x4H or 2H 4x4L	OFF ON	14 0 V	B+	AD
ACCS	(A/C Controls) MAX/NORM AC or MIX/DEF with A/C Clutch	ON	41	B+	AE

	ON			
	Floor or Vent or A/C Clutch OFF	OFF		0 V

* Refer to the Powertrain/Transmission Group in the Service Manual.
