

Gen 2 Prius PID (Parameter IDentification)

Torque Pro app provides OBD2 scan results based upon the PIDs specified for Gen 2 (2004 – 2009) Prius below.

Example: [HV Battery Block-01 Voltage \(4-2\)](#) can be specified by Torque Pro "Select Sensor" Menu [Page 4 Row 2](#).

Un-solicited (OBD2), Gen 2 Prius Specific						
Description	ECU	Mode&PID	Min	Max	Units	
Lateral acceleration		0022			--	
Longitudinal acceleration		0023				
Steering angle		0025				
Brake Pedal Position		0030	0	127	°C	
ICE Temperature		0039		255		
EM Amp		003B			A	
EM Volt				255	V	
Front right wheel pulses		00B1	0	65535	Pulse	
Front left wheel pulses						
Rear right wheel pulses		00B3				
Rear left wheel pulses						
Drive Mode		0120		3	Binary	
Throttle pedal position		0244		0xC8	--	
ICE Speed (Target)		03C8		65535	RPM	
Vehicle speed		03CA		255	Km/Hour	
HV SOC %		03CB		100	%	
HV Max Discharge Current				255	A	
HV Max Charge Current						
Ignition Timing Advance		0526			--	
0x00000529 Msg Event		0529	0	1	Binary	
General Problem, with Triangle						
Not in Park and Drivers Door is Open						
General Problem						
General Problem						
General Problem, with Triangle					Binary	
MFD SOC Bars displayed (40-80%)						--
Brake Pedal Depressed						
EV-Mode Active						
EV-Mode Cancelled						
Parking Brake Problem						
EV-Mode Denied		0	1	Binary		
ICE Temperature			052C	127	°C	
Headlights Status		057F			Binary	
Fuel Tank Level		05A4	0	~0x2C	Litter	
Doors/Hatch Open		05B6			Binary	
Cruise Control Active		05C8				

Solicited (CAN), Generic (ECU 07E0)					
Description	ECU	Mode&PID	Min	Max	Units
PID's Supported (0101 – 0120)	07E0	0100			Binary
Number of emissions-related DTC's		0101			Binary
MIL Status					
Engine Type					
Calc'd Engine Load (Torque)		0104	0	100	%
ICE Temperature		0105	-40	215	°C
Short-Term Fuel Trim		0106	-100	99.22	%
Long-Term Fuel Trim		0107			
Vehicle speed		010D	0	255	Km/Hour
Timing Advance		010E	-64	63.5	°
ICE RPM Actual		010C	0	5200	RPM
Intake Air Temperature		010F	-40	215	°C
MAF Air Flow Rate		0110	0	655.35	g/Sec
Throttle pedal position		0111		100	%
PID's Supported (0121 – 0140)		0120			Binary
Lambda		0124	0	2	
O2 Sensor Output				8	V
Odometer since DTC's Last Cleared		0131		65535	Km
Barometric Pressure		0133		255	KPa
PID's Supported (0141 – 0160)		0140			Binary
ECU Power Voltage (Aux Batt Voltage)		0142	0	65.54	V
Ambient Air Temperature		0146	-40	215	°C
Injector Time		21F3	0	32.64	mSec

Solicited (CAN), Gen 2 Prius Specific							
Description	ECU	Mode&PID	Min	Max	Units		
ICE Temperature	07E0	0105	-40	215	°C		
ICE Actual rpm (5-11)		010C	0	5200	RPM		
Timing Advance		010E	-64	63.5	°		
Lambda		0124	0	2	V		
O2 Sensor Output				8			
MG2 Revolution (7-10)	07E2	21C3	-2000	7000	RPM		
MG1 Revolution (7-4)			-13000	13000			
Engine Speed (Target) (9-10)			0	8000			
Engine Speed (Actual, ICE_RPM) (3-5)							
State Of Charge (9-3)			40	80	%		
WOUT HV Battery to Converter (9-15)			0	21	kW		
WIN HV Battery to Converter (9-14)			-25	0			
Discharge Request to Adjust SOC (2-14)			-20480	20320	W		
Drive Condition ID (2-15)			0	6	Num		
MG1 Inverter Temperature (7-2)			-40	215	°C		
MG2 Inverter Temperature (7-8)							
Motor Temperature No2 (8-1)							
Motor Temperature No1 (7-15)							
HV Power Resource VB (8-4)			150	300	V		
HV Power Resource IB (8-3)			-100	100	A		
Regenerative Brake Torque (8-6)			0	186	Nm		
Regenerative Brake Torque Request (8-7)							
Master Cylinder Torque (1-13) (6-15)			07E2		-512	508	
Power Request (8-2)					0	320	kW
MG2 Torque (MG2_T) (7-10)					-400	400	Nm
MG1 Torque (MG1_T) (7-5)					-200	200	
Shift Sensor Main (8-10)					0	5	V
Shift Sensor Sub (8-15)							
Shift Sensor Select Main (8-12)							
Shift Sensor Select Sub (8-13)			07E2	21C4	-40	5	Num
Shift Sensor Shift Position (8-14)	0	100				%	
Accelerator Pedal Angle (1-1)		510				V	
VL-Voltage Before Boosted (9-12)		765					
VH-Voltage After Boosted (9-11)							
Converter Temperature (2-5)		215			°C		
Crank Position (2-6)	0	100			°		
System Main Relay 1 Status (9-7)		1			Bin		
System Main Relay 2 Status (9-8)							
System Main Relay 3 Status (9-9)							
Converter Carrier Frequency (2-3)							

Smart Key Status (9-2)					
Air Conditioner Gate Status (1-7)					
Converter Gate Status (2-4)					
MG2 Gate Status (7-7)					
MG1 Gate Status (7-1)					
Motor (MG2) Torque Execute Value (7-14)				-512	508 Nm
Motor (MG1) Torque Execute Value (7-13)				0	5 V
Short Circuit Wave Highest Value (9-1)					100 %
Raising Pressure Ratio (8-5)					5 kW
Air Conditioner Consumption Power (1-6)					1 Bin
Driving Pattern 1 (3-1)					
Driving Pattern 2 (3-2)					
Driving Pattern 3 (3-3)					
Loading Condition (6-13)					
Engine Warming Up Request					
Air Conditioner Request (1-8)					
Engine Stop Inhibit Request (3-6)					
HVAC OBD Request (5-10)					
Main Battery Charging Request (6-14)					
Engine Idling Request (3-4)	07E2	21D3	0	1	Bin
Engine Stop Request (3-7)					
Check Mode (2-1)					
Cruise Control Memory Vehicle SPD (2-11)					
Cruise Set/Resume Speed					
Cruise Control Main Switch (Main CPU) (2-8)					
Cruise Control Main Switch - Ready (Main CPU) (2-10)					
Cruise Control Main Switch Indicator (Main CPU) (2-9)					
Cruise Control (2-7)					
Shift D Position (8-10)					
Stop Light Switch 1 (Sub CPU) (9-5)					
Stop Light Switch 2 (Sub CPU) (9-6)					
Stop Light Switch 1 (Main CPU) (9-4)					
RES / ACC Switch (8-8)					
SET / COAST Switch (8-9)					
Cancel Switch (1-15)					
Cruise Control Active (Set)					
D Drive Mode Selected					
HV Battery State of Charge (5-6)	07E3	21CE	40	80	%
HV Battery Current (5-2)			-100	100	A
Battery Power (kW) (1-11)			-27	27	kW
HV Battery Block-01 Voltage (4-2)			0	18	V
HV Battery Block-02 Voltage (4-3)					
HV Battery Block-03 Voltage (4-4)					

HV Battery Block-04 Voltage (4-5)								
HV Battery Block-05 Voltage (4-6)								
HV Battery Block-06 Voltage (4-7)								
HV Battery Block-07 Voltage (4-8)								
HV Battery Block-08 Voltage (4-9)								
HV Battery Block-09 Voltage (4-10)								
HV Battery Block-10 Voltage (4-11)								
HV Battery Block-11 Voltage (4-12)								
HV Battery Block-12 Voltage (4-13)								
HV Battery Block-13 Voltage (4-14)								
HV Battery Block-14 Voltage (4-15)								
HV Battery Air Intake Temp (3-11)								
VMF Fan Motor Voltage (9-13)								
Auxiliary Battery Voltage (1-9)								
HV Battery Charge (5-1)								
HV Battery Discharge (5-3)								
Delta SOC (2-13)								
HV Battery Fan Speed (5-4)								
HV Battery Temp 1 (5-7)								
HV Battery Temp 2 (5-8)								
HV Battery Temp 3 (5-9)								
Internal Resistance R01 (5-14)	07E3	21CF	-327.7	350	°C			
Internal Resistance R02 (5-15)			9	12	V			
Internal Resistance R03 (6-1)			0	15				
Internal Resistance R04 (6-2)				50	kW			
Internal Resistance R05 (6-3)				60	%			
Internal Resistance R06 (6-4)				6	Num			
Internal Resistance R07 (6-5)				-327.7	350	°C		
Internal Resistance R08 (6-6)			21D0	0	10	Ω		
Internal Resistance R09 (6-7)								
Internal Resistance R10 (6-8)								
Internal Resistance R11 (6-9)								
Internal Resistance R12 (6-10)								
Internal Resistance R13 (6-11)								
Internal Resistance R14 (6-12)								
HV Battery Block Count (3-14)		14					Num	
Accumulated Time of Battery LOW (1-2)		5000					Sec	
Accumulated Time of DC Inhibit (1-4)								
Accumulated Time of Battery Too High (1-3)								
Accumulated Time of Hot Temperature (1-5)								
NiMH Volt Delta		-3					3	V
HV Battery Block Lowest Volt (4-1)		0					15	
HV Battery Block # with Min V (3-13)					13	Num		

HV Battery Block Highest Volt (3-15)	07E3	21D0	0	23	V
HV Battery Block # with Max V (3-12)				13	Num

Torque Pro "Select Sensor" Menu

Page	Row	Description
1	1	Accelerator Pedal Angle
	2	Accumulated Time of Battery LOW
	3	Accumulated Time of Battery Too High
	4	Accumulated Time of DC Inhibit
	5	Accumulated Time of Hot Temperature
	6	Air Conditioner Consumption Power
	7	Air Conditioner Gate Status
	8	Air Conditioner Request
	9	Auxiliary Battery Voltage
	10	Battery Power (HP)
	11	Battery Power (kW)
	12	Friction Pad Torque
	13	Master Cylinder Torque
	14	Regenerative Torque
	15	Cancel Switch
2	1	Check Mode
	2	Combined Power (HP)
	3	Converter Carrier Frequency
	4	Converter Gate Status
	5	Converter Temperature
	6	Crank Position
	7	Cruise Control
	8	Cruise Control Main Switch (main CPU)
	9	Cruise Control Main Switch Indicator (main CPU)
	10	Cruise Control Main Switch – Ready (main CPU)
	11	Cruise Control Memory Vehicle SPD
	12	Cruise Throttle Opening Angle
	13	Delta SOC
	14	Discharge Request to Adjust SOC
	15	Drive Condition ID

Page	Row	Description
3	1	Driving Pattern 1
	2	Driving Pattern 2
	3	Driving Pattern 3
	4	Engine Idling Request
	5	Engine Speed
	6	Engine Stop Inhibit Request
	7	Engine Stop Request
	8	Engine Warning Up Request
	9	Friction Brake Power (HP)
	10	Friction Brake Power (kW)
	11	HV Battery Air Intake Temp
	12	HV Battery Block # with Max V
	13	HV Battery Block # with Min V
	14	HV Battery Block Count
	15	HV Battery Block Highest Volt
4	1	HV Battery Block Lowest Volt
	2	HV Battery Block-01 Voltage
	3	HV Battery Block-02 Voltage
	4	HV Battery Block-03 Voltage
	5	HV Battery Block-04 Voltage
	6	HV Battery Block-05 Voltage
	7	HV Battery Block-06 Voltage
	8	HV Battery Block-07 Voltage
	9	HV Battery Block-08 Voltage
	10	HV Battery Block-09 Voltage
	11	HV Battery Block-10 Voltage
	12	HV Battery Block-11 Voltage
	13	HV Battery Block-12 Voltage
	14	HV Battery Block-13 Voltage
	15	HV Battery Block-14 Voltage

Prius specific

Page	Row	Description
5	1	HV Battery Charge
	2	HV Battery Current
	3	HV Battery Discharge
	4	HV Battery Fan Speed
	5	HV Battery Power (HP)
	6	HV Battery State of Charge
	7	HV Battery Temp 1
	8	HV Battery Temp 2
	9	HV Battery Temp 3
	10	HVAC OBD Request
	11	ICE Actual RPM
	12	ICE Actual Torque (lbs)
	13	ICE Power Request (HP)
	14	Internal Resistance R01
	15	Internal Resistance R02
6	1	Internal Resistance R03
	2	Internal Resistance R04
	3	Internal Resistance R05
	4	Internal Resistance R06
	5	Internal Resistance R07
	6	Internal Resistance R08
	7	Internal Resistance R09
	8	Internal Resistance R10
	9	Internal Resistance R11
	10	Internal Resistance R12
	11	Internal Resistance R13
	12	Internal Resistance R14
	13	Loading Condition
	14	Main Battery Charging Request
	15	Master Cylinder Torque

Page	Row	Description
7	1	MG1 Gate Status
	2	MG1 Inverter Temperature
	3	MG1 Power
	4	MG1 Revolution
	5	MG1 Torque
	6	MG1 Torque (lbs-ft)
	7	MG2 Gate Status
	8	MG2 Inverter Temperature
	9	MG2 Power
	10	MG2 Revolution
	11	MG2 Torque
	12	MG2 Torque (lbs-ft)
	13	Motor (MG1) Torque Execute Value
	14	Motor (MG2) Torque Execute Value
	15	Motor Temperature No1
8	1	Motor Temperature No2
	2	Power Request
	3	Power Resource IB
	4	Power Resource VB
	5	Raising Pressure Ratio
	6	Regenerative Brake Torque
	7	Request Regenerative Brake Torque
	8	RES / ACC Switch
	9	SET / COAST Switch
	10	Shift D Position
	11	Shift Sensor Main
	12	Shift Sensor Select Main
	13	Shift Sensor Select Sub
	14	Shift Sensor Shift Position
	15	Shift Sensor Sub

Prius specific

Page	Row	Description
9	1	Short Circuit Wave Highest Value
	2	Smart Key Status
	3	State of Charge
	4	Stop Light Switch 1 (main CPU)
	5	Stop Light Switch 1 (sub CPU)
	6	Stop Light Switch 2 (sub CPU)
	7	System Main Relay 1 Status
	8	System Main Relay 2 Status
	9	System Main Relay 3 Status
	10	Target Engine Speed
	11	VH-Voltage after Boosted
	12	VL-Voltage before Boosted
	13	VMF Fan Motor Voltage
	14	WIN HV Battery to Converter
	15	WOUT HV Battery to Converter
10	1	Absolute Throttle Position B
	2	Acceleration Sensor (total)
	3	Acceleration Sensor (X axis)
	4	Acceleration Sensor (Y axis)
	5	Acceleration Sensor (Z axis)
	6	Accelerator Pedal Position D
	7	Accelerator Pedal Position E
	8	Accelerator Pedal Position F
	9	Actual Engine % Torque
	10	Air Fuel Ratio (commanded)
	11	Air Fuel Ratio (measured)
	12	Alcohol Fuel Percentage
	13	Ambient Air Temperature
	14	Android Device Battery Level
	15	Average Trip Speed (moving only)

Page	Row	Description
11	1	Average trip speed (stopped or moving)
	2	Barometer (on Android device)
	3	Barometric Pressure (from vehicle)
	4	Boost Pressure Command A
	5	Boost Pressure Command B
	6	Boost Pressure Sensor A
	7	Boost Pressure Sensor B
	8	Catalyst Temperature (bank 1 Sensor 1)
	9	Catalyst Temperature (bank 1 Sensor 2)
	10	Catalyst Temperature (bank 2 Sensor 1)
	11	Catalyst Temperature (bank 2 Sensor 2)
	12	Charge Air Cooler Temperature (CACT)
	13	Command Equivalence Ratio (lambda)
	14	Cost per mile/km (instant)
	15	Cost per mile/km (trip)
12	1	CO ₂ in g/km (average)
	2	CO ₂ in g/km (instantaneous)
	3	Distance to Empty (estimated)
	4	Distance Traveled since Codes Cleared
	5	Distance traveled with MIL/CEL Lit
	6	DPF Bank 1 Delta Pressure
	7	DPF Bank 1 Inlet Pressure
	8	DPF Bank 1 Inlet Temperature
	9	DPF Bank 1 Outlet Pressure
	10	DPF Bank 1 Outlet Temperature
	11	DPF Bank 2 Delta Pressure
	12	DPF Bank 2 Inlet Pressure
	13	DPF Bank 2 Inlet Temperature
	14	DPF Bank 2 Outlet Pressure
	15	DPF Bank 2 Outlet Temperature

Prius specific

Page	Row	Description
13	1	Drivers Demand Engine % Torque
	2	ECU (20): Engine Coolant Temperature
	3	ECU (20): Engine RPM
	4	ECU (20): Intake Air Temperature
	5	ECU (20): Speed (OBD)
	6	ECU (20): Throttle Position (manifold)
	7	ECU (28): Engine Coolant Temperature
	8	ECU (28): Engine RPM
	9	ECU (28): Speed (OBD)
	10	ECU (28): Throttle Position (manifold)
	11	ECU (7EA): Accelerator Pedal Position D
	12	ECU (7EA): Accelerator Pedal Position E
	13	ECU (7EA): Ambient Air Temperature
	14	ECU (7EA): Distance Traveled since Codes cleared
	15	ECU (7EA): Distance Traveled with MIL/CEL Lit
14	1	ECU (7EA): Engine Coolant Temperature
	2	ECU (7EA): Engine Load
	3	ECU (7EA): Engine RPM
	4	ECU (7EA): Intake Air Temperature
	5	ECU (7EA): Run Time since Engine Start
	6	ECU (7EA): Speed (OBD)
	7	ECU (7EA): Throttle Position (manifold)
	8	ECU (7EA): Voltage (control module)
	9	ECU (7EB): Distance traveled since codes cleared
	10	ECU (7EB): Distance traveled with MIL/CEL Lit
	11	ECU (7EB): Engine Coolant Temperature
	12	ECU (7EB): Engine Load
	13	ECU (7EB): Engine RPM
	14	ECU (7EB): Run Time since Engine Start
	15	ECU (7EB): Speed (OBD)

Page	Row	Description
15	1	ECU (7EB): Throttle Position (manifold)
	2	ECU (7EB): Voltage (control module)
	3	EGR Commanded
	4	EGR Error
	5	Engine Coolant Temperature
	6	Engine kW (at the wheels)
	7	Engine Load
	8	Engine (absolute)
	9	Engine Oil Temperature
	10	Engine Reference Torque
	11	Engine RPM
	12	Ethanol Fuel %
	13	EVAP System Vapor Pressure
	14	Exhaust gas temp Bank 1 Sensor 1
	15	Exhaust gas temp Bank 1 Sensor 2
16	1	Exhaust gas temp Bank 1 Sensor 3
	2	Exhaust gas temp Bank 1 Sensor 4
	3	Exhaust gas temp Bank 2 Sensor 1
	4	Exhaust gas temp Bank 2 Sensor 2
	5	Exhaust gas temp Bank 2 Sensor 3
	6	Exhaust gas temp Bank 2 Sensor 4
	7	Exhaust Pressure Bank 1
	8	Exhaust Pressure Bank 2
	9	Fuel Cost (trip)
	10	Fuel Flow Rate/Hour
	11	Fuel Flow Rate/Minute
	12	Fuel Level (from Engine ECU)
	13	Fuel Pressure
	14	Fuel Rail Pressure
	15	Fuel Rail Pressure (relative to manifold vacuum)

Page	Row	Description
17	1	Fuel Rate (direct from ECU)
	2	Fuel Remaining (calculated from vehicle profile)
	3	Fuel Trim Bank 1 Long Term
	4	Fuel Trim Bank 1 Short Term
	5	Fuel Trim Bank 2 Long Term
	6	Fuel Trim Bank 2 Short Term
	7	Fuel Trim Sensor 1
	8	Fuel Trim Sensor 2
	9	Fuel Trim Sensor 3
	10	Fuel Trim Sensor 4
	11	Fuel Trim Sensor 5
	12	Fuel Trim Sensor 6
	13	Fuel Trim Sensor 7
	14	Fuel Trim Sensor 8
	15	Fuel Used (trip)
18	1	GPS Accuracy
	2	GPS Altitude
	3	GPS Bearing
	4	GPS Latitude
	5	GPS Longitude
	6	GPS Satellites
	7	GPS vs OBD Speed Difference
	8	Horse Power (at the wheels)
	9	Hybrid Battery Charge (%)
	10	Hybrid/EV Battery Remaining Charge
	11	Hybrid/EV Battery State of Health
	12	Hybrid/EV Battery Current
	13	Hybrid/EV Battery Power
	14	Hybrid/EV Battery Voltage
	15	Intake Air Temperature

Page	Row	Description
19	1	Intake Manifold ABS Pressure A
	2	Intake Manifold ABS Pressure B
	3	Intake Manifold Pressure
	4	Kilometers per Litter (instant)
	5	Litters per Litter (long term average)
	6	Litters per 100 Kilometer (instant)
	7	Litters per 100 Kilometer (long term average)
	8	Mass Air Flow Rate
	9	Mass Air Sensor A
	10	Mass Air Sensor B
	11	Miles per Gallon (instant)
	12	Miles per Gallon (long term average)
	13	NOx Post SCR
	14	Nox Pre SCR
	15	O2 Sensor 1 Wide Range Current
20	1	O2 Sensor 1 Voltage
	2	O2 Sensor 1 Wide Range Equivalence Ratio
	3	O2 Sensor 1 Wide Range Voltage
	4	O2 Sensor 2 Voltage
	5	O2 Sensor 2 Wide Range Current
	6	O2 Sensor 2 Wide Range Equivalence Ratio
	7	O2 Sensor 2 Wide Range Voltage
	8	O2 Sensor 3 Voltage
	9	O2 Sensor 3 Wide Range Current
	10	O2 Sensor 3 Wide Range Equivalence Ratio
	11	O2 Sensor 3 Wide Range Voltage
	12	O2 Sensor 4 Voltage
	13	O2 Sensor 4 Wide Range Current
	14	O2 Sensor 4 Wide Range Equivalence Ratio
	15	O2 Sensor 4 Wide Range Voltage

Page	Row	Description
21	1	O2 Sensor 5 Voltage
	2	O2 Sensor 5 Wide Range Current
	3	O2 Sensor 5 Wide Range Equivalence Ratio
	4	O2 Sensor 5 Wide Range Voltage
	5	O2 Sensor 6 Voltage
	6	O2 Sensor 6 Wide Range Current
	7	O2 Sensor 6 Wide Range Equivalence Ratio
	8	O2 Sensor 6 Wide Range Voltage
	9	O2 Sensor 7 Voltage
	10	O2 Sensor 7 Wide Range Current
	11	O2 Sensor 7 Wide Range Equivalence Ratio
	12	O2 Sensor 7 Wide Range Voltage
	13	O2 Sensor 8 Voltage
	14	O2 Sensor 8 Wide Range Current
	15	O2 Sensor 8 Wide Range Equivalence Ratio
22	1	O2 Sensor 8 Wide Range Voltage
	2	Odometer (from ECU)
	3	Percentage of City Driving
	4	Percentage of Highway Driving
	5	Percentage of Idle Driving
	6	Positive Kinetic Energy (PKE)
	7	Relative Accelerator Pedal Position
	8	Relative Throttle Position
	9	Run Time since Engine Start
	10	Speed (GPS)
	11	Speed (OBD)
	12	Throttle Position (manifold)
	13	Timing Advance
	14	Torque
	15	Transmission Temperature (method 2)

Page	Row	Description
23	1	Trip average KPL
	2	Trip Average Litters/100kM
	3	Trip Average MPG
	4	Trip Distance
	5	Trip distance (stored in vehicle profile)
	6	Trip Time (since journey start)
	7	Trip Time (moving)
	8	Trip Time (stationary)
	9	Turbo Boost & Vacuum Gauge
	10	Voltage (control mode)
	11	Voltage (OBD Adapter)
	12	Volumetric Efficiency (calculated)