

OBD II Pro Plus

Enhanced Toyota Module List

[Sensors](#) [Commands](#)

Supported Systems

ABS	ActiveFrontSteering	AirBagSRS
AirBagSRSII	AirConditioning	AirSuspension
AutomaticHeightControl	BackDoor	Body
BodyIII	BodyIV	BodyV
CCS	CCSCAN	ClearanceSonar
CombinationSwitch	DriverDoor	DriverSeat
ECTCAN	EHPS	EMPS
EnhancedPowertrain	EnhancedPowertrainCAN	HVBatteryCAN
HVECUCAN	Immobilizer	LaserCruise
MasterSwitch	Meter	Mirror
MirrorLeft	MirrorRight	OCC
PassengerDoor	PassengerSeat	PowerSourceControl
RadarCCSCAN	RainSensor	RearLeftDoor
RearLeftSeat	RearRightDoor	RearRightSeat
RearSeatSwitch	SMART	SequentialManual
SlideRoof	SteeringLock	SteeringPad
StopAndGo	TAndT	TDS
TMControl	TPWS	VGRS
Wiper		

ABS Sensors

+B1	+B2	A Pattern Drive is Under Enforcement
ABS Control Front Left	ABS Control Front Right	ABS Control Rear Left
ABS Control Rear Right	ABS Motor Relay	ABS Operation Front Left
ABS Operation Front Right	ABS Operation Rear Left	ABS Operation Rear Right
Accumulator Pressure Sensor	Air Bleeding Support	Back & Forth G
BS1	BS2	Buzzer
Capacitor Mode	Current of SLAFL Solenoid	Current of SLAFR Solenoid

Current of SLARL Solenoid	Current of SLARR Solenoid	Deceleration Sensor
Deceleration Sensor 1	Deceleration Sensor 2	Deceleration Sensor GL1
Deceleration Sensor GL2	Deceleration Switch	Difference % of a Present Accelerator
Difference % of an Present Accelerator	Difference % of an Present Throttle	Difference Degree of an Present Accelerator
EBC Solenoid - Main Relay 1	EBC Solenoid - Main Relay 2	EBC Solenoid - MC1
EBC Solenoid - MC2	EBC Solenoid - SC1	EBC Solenoid - SC2
EBC Solenoid - SSC	ECB - Brake Type	ECB - Existence of VSC
ECB - Motor Relay 1	ECB - Motor Relay 2	ECB Sensor - Accumulator Pressure Sensor 1
ECB Sensor - Accumulator Pressure Sensor 2	ECB Sensor - Front Left Pressure Sensor	ECB Sensor - Front Right Pressure Sensor
ECB Sensor - Rear Left Pressure Sensor	ECB Sensor - Rear Right Pressure Sensor	ECU Code 1
ECU Code 2	ECU Code 3	ECU Code 4
ECU IG Power Voltage	EFI Communication	Elapsed Time after Ignition Switch ON
EMPS Vehicle Speed	Engine RPM	FL Speed Sensor
FL Wheel Cylinder Pressure Sensor	FL Wheel Cylinder Pressure Sensor	FR Speed Sensor
FR Wheel Cylinder Pressure Sensor	FR Wheel Cylinder Pressure Sensor	Front Left Wheel Direction
Front Left Wheel Speed	Front Pressure Sensor	Front Right Wheel Direction
Front Right Wheel Speed	H/B Motor Relay	HV Communication
Hydro Booster High Pressure Switch	Hydro Booster Low Pressure Switch	Inspection Mode
Main Idle Switch	Main Relay 1 for ECB	Main Relay 2 for ECB
Master Cylinder Pressure 1	Master Cylinder Pressure 2	Master Cylinder Pressure Sensor
Master Cylinder Pressure Sensor - Volts	Master Cylinder Pressure Sensor 1	Master Cylinder Pressure Sensor 1 - Volts
Master Cylinder Pressure Sensor 2	Master Cylinder Pressure Sensor 2 - Volts	Master Cylinder Pressure Sensor Grade
Motor Relay 1	Motor Relay 2	MTT
Number of Ignition ON After	Output Value of GL1 Sensor	Output Value of GL2

Entering the Inspection Mode		Sensor
Output Value of Yaw Rate Sensor	Parking Brake Switch	PKB Switch
Pre-Charge Pump	Real Output Torque	Rear Left Wheel Direction
Rear Left Wheel Speed	Rear Pressure Sensor	Rear Right Wheel Direction
Rear Right Wheel Speed	Rear Right wheel Speed	Rear Right Wheel Speed
Regeneration Operation Torque	Regeneration Request Torque	Regenerative Request Torque (FL)
Regenerative Request Torque (FR)	Regenerative Request Torque (RL)	Regenerative Request Torque (RR)
Regulator Pressure Sensor	Reservoir Level Switch	Reservoir Level Warning Switch
Right & Left G	RL Speed Sensor	RL Wheel Cylinder Pressure Sensor
RL Wheel Cylinder Pressure Sensor	RR Speed Sensor	RR Wheel Cylinder Pressure Sensor
RR Wheel Cylinder Pressure Sensor	SA1 Solenoid	SA2 Solenoid
SCSS	SFLH	SFLR
SFRH	SFRR	Shift Position
SLAFL Solenoid	SLAFR Solenoid	SLARL Solenoid
SLARR Solenoid	SLRFL Solenoid	SLRFR Solenoid
SLRRL Solenoid	SLRRR Solenoid	SMC1
SMC2	SMF (BA-SOL)	SMR
Soleniod Relay	Solenoid Relay	Solenoid Status of ABS Actuator SFLH
Solenoid Status of ABS Actuator SFLR	Solenoid Status of ABS Actuator SFRH	Solenoid Status of ABS Actuator SFRR
Solenoid Status of ABS Actuator SRLH	Solenoid Status of ABS Actuator SRLR	Solenoid Status of ABS Actuator SRRH (SRH)
Solenoid Status of ABS Actuator SRRR (SRR)	Solenoid Status of TRAC Actuator SMFL	Solenoid Status of TRAC Actuator SMFR
Solenoid Status of TRAC Actuator SMR	Solenoid Status of TRAC Actuator SPFL(SMV2)	Solenoid Status of TRAC Actuator SPFR
Solenoid Status of TRAC Actuator SRCF(SRC1)	Solenoid Status of TRAC Actuator SRCR(SRC2)	SPFL
SPFR	SRCF (SA1,SRC1,SBAR)	SRCR

		(SA2, SRC2, SBAL)
SRLH	SRLR	SRMF (SMCF, SA3, SMC1)
SRMR (SMCR, STR, SMC2)	SRRH (SRH)	SRRR (SRR)
Status of ABS Solenoid - SFLH	Status of ABS Solenoid - SFLR	Status of ABS Solenoid - SFRH
Status of ABS Solenoid - SFRR	Status of ABS Solenoid - SRLH	Status of ABS Solenoid - SRLR
Status of ABS Solenoid - SRRH (SRH)	Status of ABS Solenoid - SRRR (SRR)	Status of PPS Solenoid
Status of Regeneration Control - Regeneration Cooperation Control	Status of Regeneration Control - System Brake 1 System Brake 1	Status of Regeneration Solenoid - SMC1
Status of Regeneration Solenoid - SMC2	Status of Regeneration Solenoid - SS	Status of Sub Throttle Sensor
Status of Throttle Sensor	Status of Yaw Rate Sensor - Zero Point Value	Steering Angle
Steering Angle Sensor	Steering Sensor	Step Force Switch
Stop Light Switch	Stroke Sensor	Stroke Sensor - Volts
Stroke Sensor 1	Stroke Sensor 2	Stroke Sensor 2 - Volts
Stroke Sensor Grade	Sub Idle Switch	System
Target Oil Pressure (FL)	Target Oil Pressure (FR)	Target Oil Pressure (RL)
Target Oil Pressure (RR)	Test Mode Status	Throttle Opening Angle
Trac Motor Relay	Vacuum Sensor 1	Vacuum Sensor 2
Vehicle Speed	Vehicle Speed Grade	VM1
VM2	Voltage Value of IG1	Voltage Value of IG2
VSC/TRC Off Switch	VSP1 (Vehicle Speed on Meter)	Wheel Speed Front Left
Wheel Speed Front Right	Wheel Speed Rear Left	Wheel Speed Rear Right
Yaw Rate Sensor		

ActiveFrontSteering Sensors

+B	AFS Off Switch	Front Height Sensor Signal Value
Generator Signal	Headlamp Auto Signal	Headlamp Signal
Height Sensor Power Supply Value	Left Swivel Motor Position Sensor Value	Rear Height Sensor Signal Value
Right Swivel Motor Position	Steering Sensor Center	Steering Sensor Signal

Sensor Value	Position	
Transmission Position N Signal	Transmission Position R Signal	

AirBagSRS Sensors

Display Type Information	Driver (Left) Side Buckle Switch	Driver Side Seat Position
Passenger Classification	Passenger (Right) Side Buckle Switch	

AirBagSRSII Sensors

Display Type Information	Driver (Left) Side Buckle Switch	Driver Side Seat Position
Passenger (Right) Side Buckle Switch		

AirConditioning Sensors

+B Abnormal Low Voltage Counter	Adjusted Ambient Temperature	Air Inlet Damper Position
Air Inlet Damper Target Pulse	Air Mix Damper Position (Driver Side)	Air Mix Damper Position (Passenger Side)
Air Mix Damper Position (Rear)	Air Mix Damper Target Position (Driver Side)	Air Mix Damper Target Position (Rear)
Air Mix Servomotor Target Pulse (Driver Side)	Air Mix Servomotor Target Pulse (Passenger Side)	Air Mix Servomotor Target Step (Driver Side)
Air Mix Servomotor Target Step (Passenger Side)	Air Outlet Damper Position	Air Outlet Damper Target Position (Rear)
Air Outlet DamperTarget Position	Air Outlet Mode Damper Position (Rear)	Air Outlet Servomotor Target Pulse (Drive Side)
Air Outlet Servomotor Target Step (Driver Side)	Air Outlet Servomotor Target Step (Passenger Side)	Ait Inlet Damper Target Position
Ambient Temperature Sensor	Ambient Temperature Sensor (Rear)	Blower Motor Speed Level
Blower Motor Speed level (Rear)	Compressor Speed	Compressor Target Speed
Cool Air Bypass Damper Position (Driver Side)	Cool Air Bypass Damper Position (Passenger Side)	Cool Sir Bypass Pulse
Duct Sensor (Driver Side)	Duct Sensor (Passenger Side)	Emission Gas Nox Sensor
Emission Gas Sensor	Engine Coolant Temperature	Evaporator Fin Thermistor

Evaporator Temperature Sensor	Filter Flow Volume	HandsFree Telephone
Humidity Sensor	Rear Solar Sensor	Regulator Control Current
Regulator Pressure Current	Room Temperature Sensor	Room Temperature Sensor (Rear)
Set Temperature (Driver Side)	Set Temperature (Passenger Side)	Set Temperature (Rear)
Solar Sensor (Driver Side)	Solar Sensor (Passenger Side)	

AirSuspension Sensors

+B Power Source Voltage	Access Mode Switch	Bumpy Road Sensor
Damper Step FL	Damper Step FR	Damper Step RL
Damper Step RR	Damping Force Switch 1	Damping Force Switch 2
Door Switch	Engine Speed	Exhaust Solenoid
FL After Height Adjust	FL Height Adjust	FL Height Control Sensor
FL Height Solenoid	FL Wheel Speed	FR After Height Adjust
FR Height Adjust	FR Height Control Sensor	FR Height Solenoid
FR Wheel Speed	G (Back & Forth) Sensor	G (Up & Down) Sensor FL
G (Up & Down) Sensor FR	G (Up & Down) Sensor Rear	Height Control Hold Switch
Height Control OFF Switch	Height Control SW(Down)	Height Control SW(Up)
Height Control Switch	IG Power Source Voltage	Low Pressure Tank Solenoid
Main Relay Expectation	Max Damper Step FL	Max Damper Step FR
Max Damper Step RL	Max Damper Step RR	MOD2
Motor Relay	RL After Height Adjust	RL Height Adjust
RL Height Control Sensor	RL Height Solenoid	RL Wheel Speed
RR After Height Adjust	RR Height Adjust	RR Height Control Sensor
RR Height Solenoid	RR Wheel Speed	SLRG
SLRL	Steering Angle	Stop Light Switch
TD Terminal	Test Mode Status	Vehicle Speed
Warp Sensor	Wheel Speed FR	

AutomaticHeightControl Sensors

Accumulator Solenoid	Front Gate Solenoid	Front Leveling Solenoid
Front Wheel Down	Front Wheel Up	Main Relay
Main Relay Monitor	Motor Relay	Rear Gate Solenoid

Rear Leveling Solenoid	Rear Wheel Down	Rear Wheel Up
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BackDoor Sensors

Back Door Handle Switch	Buzzer Volume During The PBD Operation	Courtesy Switch
Door Key Linked P/W Down	Door Key Linked P/W Up	Door Lock Status
Door Position (1/4 Open to 2/4 Open)	Door Position (2/4 Open to 3/4 Open)	Door Position (3/4 Open to Fully Open)
Door Position (Fully Close to 1/4 Open)	Full Latch Switch	Glass Position (1/4 Open to 2/4 Open)
Glass Position (2/4 Open to 3/4 Open)	Glass Position (3/4 Open to Fully Open)	Glass Position (Fully Close to 1/4 Open)
Half Latch Switch	Lock Position Switch	Lock Switch Linked With The Key
P/W Limited Switch	PBD Assist Close Operation	PBD Assist Open Operation
PBD Switch Operation Condition	PBD Touch Sensor (Left)	PBD Touch Sensor (Right)
PDB Closer Switch	PDB Main Switch	Power Window Position
Unlock Switch Linked With The Key	Wiper Retracting Switch	Wiper Stop Position
Wiper Turn Position Switch	Wireless PBD One Motion Operation	Wireless PBD Switch Operation Condition

Body Sensors

Accessory Switch	Alternator L Terminal	Wiper - Angle Mode
Answer Back	Auto Light Switch	Auto Lock
Auto Lock Specification Of Vehicle	Auto Lock Time	Auto Lock/ Shift Not P
Auto Mirror Switch	Wiper - Auto Wiper	Automatic Door Lock Linked Shift
Back Door Operation Switch	Back Door P/W Open	Back Door P/W Open Function
Battery Saver	Brake Fluid Level Warning Switch	Brake Pad Sensor Open Switch
Car Finder Function	Code Selection For Trunk Lid Open	Lighting Control - Control Type
D Door Close-Open Linked,Unlock All The	D Door Courtesy Switch	D Seat Buckle Switch

Door Lock		
Dimmer Switch	Lighting Control - Display Extinction Luminous Intensity	Lighting Control - Display Extinction Release Luminous Intensity
Door Key Linked P/W Down	Door Key Linked P/W Up	Door Key Switch-Lock Side
Door Lock Switch-Lock Side	Door Lock Switch-Unlock Side	Down The P/W With Transmitter
Driver Door Key Switch- Unlock Side	Driver Door Lock Position Switch	DRL Control Function
ECT Power Mode Switch	ECT Snow Mode Switch	Entry Delay Time
Foot Lights Set Up(All Seat)	Front Fog Light Switch	Fuel Lid Opener Switch
Function Code Select	Hazard Answer Back	Head Light Switch (Head)
Head Light Switch (Tail)	Hood Courtesy Switch	Ignition Switch
Illumination Rate Information	Indicator Blinking When Armed State	Intrusion Sensor
Intrusion Sensor Detection	Intrusion Sensor OFF Switch	Key Reminder Buzzer Sound
Key Reminder Buzzer Volume	Key Unlock Warning Switch	Lamp Failure Signal
Lighting Control - Light Auto Turn Off Delay	Light Reminder	Light The I/L When ACC OFF
Light The I/L When Unlocking With Key	Lighting Time (2 Selection)	Lighting Time (3 Selection)
Lock Position Switch (Except D And Back Door)	Lock When IG Sw Is ON, Shift D	Lounge Illumination
Lounge Illumination Control	Luggage Courtesy Switch	Luggage Door Lock/Unlock Switch
Luggage Opener Switch	Memory Set Switch	Mirror Position Switch (Down)
Mirror Position Switch (Left)	Mirror Position Switch (Right)	Mirror Position Switch (UP)
Mirror Selection Switch (Left)	Mirror Selection Switch (Right)	Open Door Warning
Outer Mirror Auto Return	Outer Mirror Fold Function	Outer Mirror Fold Switch
Outer Mirror Return Switch	P Door Courtesy Switch	P Seat Buckle Switch
P/W Function Mode By The Door Key	P/W Function Mode By The Transmitter	P/W Operation Mode When Ignition Switch Is OFF
P/W Operation When	Panic Function	Parking Brake Switch

Ignition Switch Is OFF		
Passenger Door Key Switch-Unlock Side	Passenger Lock Position Switch	Passing Light Switch
Passive Mode (Security System)	PNP Switch	PSD Operation Switch (Driver's Side)
PSD Operation Switch (Passenger's Side)	Rear Door Courtesy Switch	Rear Door Opening Warning
Rear Fog Light Switch	Rear Lock Position Switch	Rear Sunshade Delay Time
Lighting Control - Response Time	Wiper - Rewipe Function	Wiper - Rewipe Time
Rheostat Volume Control	Wiper - R-Linked Wiper	Seat Belt Warning Buzzer
Seat Memory Switch 1	Seat Memory Switch 2	Security System
Lighting Control - Sensitivity	Shift P Position Switch (P1)	Shoulder Belt Position 1
Shoulder Belt Position 2	Shoulder Belt Position 3	Slight Open
Wiper - Speed Mode	Sport A/T Switch	Stop Light Switch
Tail Cancel Switch	The Light Comes On When Unlocking The Transmitter	Trunk And Back-Door Opener Switch
Trunk Opener & Metal Top Switch	Unlock When The IG ON,Shift P And Speed 0	Unlock With 2 Times Operation By D Door Key
Unlock With 2 Times Operation By Transmitter	Up The P/W With Transmitter	Warning By Glass Broken Sensor
Warning By Self Power Siren	Warning By Vehicle's Horn	Warning Operation Time
Washer Switch Terminal (W)	Wiper Angle Control Motor Terminal (PA1)	Wiper Angle Control Motor Terminal (PA2)
Wiper Switch Terminal (+1)	Wiper Switch Terminal (2S)	Wiper Switch Terminal (C1)
Wiper Switch Terminal (SM)	Wireless Buzzer Response	Wireless Door Lock Buzzer Volume
Wireless Door Lock Control Function		

BodyIII Sensors

Accessory Switch	ECT Power Switch	ECT Snow Switch
High Level Warning Switch	Illumination Lighting Time	Illumination System
Illumination System Setup	Illumination System With	Light Control

Value	ACC OFF	
MPX-Ignition Switch	P Indicator Switch	Rear Seat Return Switch
WIP Switch	Wiper - Auto Wiper Operation Mode	Wiper - Rewipe Operation Control
Wiper - Speed Mode	Wiper Switch	

BodyIV Sensors

Back-Up Light Transistor	High Mount Stop Light Transistor	Ignition Switch
Lid Open Switch	Luggage Courtesy Switch	Luggage Key Switch
Luggage Push Switch	Rear Fog Light Transistor	Smoke Sensor Operation Switch
Stop Light Transistor	Tail Light Transistor	Trunk Close Position Switch
Trunk Open Position Switch		

BodyV Sensors

Washer Level Switch

CCS Sensors

Cancel Switch	Cruise Control	Cruise Control Main Switch (Main CPU)
Cruise Control Main Switch-Indicator (Main CPU)	Cruise Control Main Switch-Ready (Main CPU)	Cruise Control Memory Vehicle SPD
Cruise Control Vehicle SPD	Cruise Throttle Opening Angle	RES/ACC Switch
SET/COAST Switch	Shift D Position	Stop Light Switch 1 (Sub CPU)
Stop Light Switch 2 (Main CPU)	Stop Light Switch 2 (Sub CPU)	

CCSCAN Sensors

Cancel Switch	Cruise Control	Cruise Control Main Switch-(Main CPU)
Cruise Control Main Switch-Indicator (Main CPU)	Cruise Control Main Switch-Ready (Main CPU)	Cruise Control Memory Vehicle SPD
Cruise Throttle Opening Angle	RES/ACC Switch	SET/COAST Switch

Shift D Position	Stop Light Switch 1 (Main CPU)	Stop Light Switch 1 (Sub CPU)
Stop Light Switch 2 (Sub CPU)	Cruise Request Switch	

ClearanceSonar Sensors

Approach Display Off	Clearance Sonar Main Switch	Display Timeout Time
Front & Rear Buzzer Frequency	Front & Rear Buzzer Volume	Front Buzzer Specified
Front Left Center Sensor Information	Front Left Sensor Information	Front Left Side Sensor Information
Front Right Center Sensor Information	Front Right Sensor Information	Front Right Side Sensor Information
Front Side Distance Sensor	Keep Sense Status Buzzer	No Move Judgment Buzzer
Non P/R Range Sensor	Rear Buzzer Specified	Rear Left Center Sensor Information
Rear Left Sensor Information	Rear Right Center Sensor Information	Rear Right Sensor Information
Rear Sensor	Reverse Range Sensor	Sensor Condition N Range
Sonar Display Off Time		

CombinationSwitch Sensors

Dimmer HI Switch	Front Fog Light Switch	Front Washer Switch
Front Wiper AUTO Switch	Front Wiper Hi Switch	Front Wiper Int Switch
Front Wiper Lo Switch	Front Wiper MIST Switch	Horn Switch Status
Ignition Switch Signal	Light AUTO Switch	Light HEAD Switch
Light TAIL Switch	Passing Light Switch	Telesco Long Switch Status
Telesco Short Switch Status	Tilt Down Switch	Tilt Up Switch
Turn Left Switch	Turn Right Switch	Wiper Volume Position

DriverDoor Sensors

Cam Position Switch 1	Cam Position Switch 2	Cam Position Switch 3
Courtesy Switch	Door P/W Auto Switch	Double Lock Position Switch
Foot Light Lighting Time	Full Switch	Glass Position (3/4 Open to Fully Open)
Glass Position (Fully Close	Glass Position (Fully Close to	Glass Position (Fully Close

to 1/4 Open)	2/4 Open)	to 3/4 Open)
Half Switch	Jam Protection Limit Switch	Lock Position Switch
Mirror Position Sensor (Vertical)	Mirror Position Sensor (Horizontal)	Mirror Return Type
Pole Switch	Trespass Sensor	Trigger Switch

DriverSeat Sensors

Current Cushion Position Customize	Current Front Vertical Position	Current Headrest Position
Current Lifter Position	Current Reclining Position	Current Slide Position
Cushion Switch Front	Cushion Switch Rear	D-Door Warning Switch
Driver Mirror Memory 1	Driver Mirror Memory 2	Driver Mirror Memory 3
ECU Ignition Power Voltage	Front Vertical Down Switch	Front Vertical Up Switch
Headrest Control	Headrest Down Most Position	Headrest Position Initial Flag
Headrest Switch Down	Headrest Switch Up	Ignition PUSH Position Switch
Ignition Switch	Key Unlock Switch	Lifter Down Switch
Lifter Up Switch	Memorized Belt Anchor Position 1	Memorized Belt Anchor Position 2
Memorized Belt Anchor Position 3	Memorized Cushion Position 1	Memorized Cushion Position 2
Memorized Cushion Position 3	Memorized Driver Mirror Position 1	Memorized Driver Mirror Position 2
Memorized Driver Mirror Position 3	Memorized Front Vertical Position 1	Memorized Front Vertical Position 2
Memorized Front Vertical Position 3	Memorized Headrest Position 1	Memorized Headrest Position 2
Memorized Headrest Position 3	Memorized Lifter Position 1	Memorized Lifter Position 2
Memorized Lifter Position 3	Memorized Passenger Mirror Position 1	Memorized Passenger Mirror Position 2
Memorized Reclining Position 1	Memorized Reclining Position 2	Memorized Reclining Position 3
Memorized Slide Position 1	Memorized Slide Position 2	Memorized Slide Position 3
Memory Switch 1	Memory Switch 2	Memory Switch 3
Memory Switch No 1	Memory Switch No 2	Passenger Mirror Memory 1

Passenger Mirror Memory 2	Passenger Mirror Memory 3	Reclining Front Switch
Reclining Position Initial Flag	Reclining Rear Switch	Seat Memory 1
Seat Memory 2	Seat Memory 3	SET Switch
Shift "P" Position Switch	Shift N Position Switch	Slide Front Most Position
Slide Front Switch	Slide Position Initial Flag	Slide Rear Switch
Slide Switch Front (Wire Harness)	Slide Switch Rear (Wire Harness)	Status Of Motor
Stop Light Switch	Temporary Stop Moving Flag	

ECTCAN Sensors

A/T Oil Temperature 1	Check Mode	Lock up Solenoid Status
Pattern Switch Status	Received Accelerator Position from EFI	Received Coolant Temperature from EFI
Received Engine Speed from EFI	Received Intake Air Temperature from EFI	Received Throttle Position from EFI
Shift Status	Shift Switch Status (D Range)	Shift Switch Status (R Range)
SLT Solenoid Status	SLU Solenoid Status	Snow Switch Status
SPD (NT)	SPD (SP2)	SPD Test
Sports Mode Selection SW	Sports Shift Down SW	Sports Shift UP SW
Stop Light Switch		

EHPS Sensors

ROM Version (CAR)	ROM Version (Major Version)	ROM Version (Minor Version)
Test Mode Status		

EMPS Sensors

Assist Map Select State	Command Value Current	Continuous Overheat Control
Continuous Overload Control	Control Mode	ECU Identification
Engine Revolution	IG ON/OFF Times	IG Power Supply
Low Motor Power Supply Voltage	Meter Vehicle Velocity	Motor Actual Current
Motor Hi Power Record	Motor Terminal Voltage (-)	Motor Terminal Voltage (+)

Number Of Diagnosis Code	PIG Power Supply	Ready Status
Steering Wheel Angle Velocity	Test Mode Status	Thermistor Temperature
Torque Sensor 1 Output	Torque Sensor 2 Output	Torque Sensor Control
TRQ1 Zero Point Value	TRQ2 Zero Point Value	TRQ3 Zero Point Value
Wheel Speed (Left)	Wheel Speed (Right)	

Enhanced Powertrain Sensors

40 Cycles	A/C Signal Switch	A/F1 Test Status
A/F2 Test Status	Accelerator Fully Learn Value	Accelerator Idle Position
Accelerator Position 1	Accelerator Position 2	AS Test Status
AT Speed	ATF	Automatic Transmission Fluid Temp
B1S2 Test Status	B2S2 Test Status	CAM Phaser
Check Mode	Direct Clutch RPM (NC)	Direct Clutch RPM (NC0 or NC2)
Direct Clutch RPM (NC2)	E-ABV Step Position	EGR Step Position
EGR Temperature	EGR Value Position	Electric Load Switch
Electro Magnetic Clutch	Electro Magnetic Clutch Current	Engine Run Time
Engine Speed At Misfire	Engine Stop Signal	ETCS Actuator Power
Fail Safe Drive	Fail Safe Drive (Main CPU)	Fuel Cut From CTP
Fuel Cut From TAU Min	Fuel Pressure	Fuel Tank Pressure (Absolute)
Fuel Tank Pressure (Gauge)	Idle Air Control Duty Cycle	Idle Air Control Step Position
Ignition Starter Switch	Injector Pulse Width	Kick Down Switch
Lean Control Bank 1 Sensor 1	Lean Control Bank 1 Sensor 2	Lean S FT Bank 1 Sensor 1
Lean S FT Bank 1 Sensor 2	Lean Sensor Bank 1 Sensor 1	Lean Sensor Bank 1 Sensor 2
Load At Misfire	Lock Up Soleniod	Lockup Soleniod
Misfire All Cylinders	Misfire Cylinders #1	Misfire Cylinders #2
Misfire Cylinders #3	Misfire Cylinders #4	Misfire Cylinders #5
Misfire Cylinders #6	Misfire Cylinders #7	Misfire Cylinders #8
Misfire Test Status	NSW Test Status	Number of Codes
Number of Ignition	O/D Cut From CCS	O/D Cut From O/D Off Switch
O/D Cut Soleniod	O2 Rich-Lean Bank 1 Sensor	O2 Rich-Lean Bank 1 Sensor

	1	2
O2 Rich-Lean Bank 2 Sensor 1	O2 Rich-Lean Bank 2 Sensor 2	OVC Duty Ratio
Park/Neutral Switch	Pattern Select Switch in PWR	Power Steering Oil Pressure Switch
Power Steering Signal	Shift	Shift Position
Shift Position Switch in 2nd	Shift Position Switch in 3rd	Shift Position Switch in 4th/Drive
Shift Position Switch in L	Shift Position Switch in R	Shift Position Switch in Snow
Shift Position Switch in Sports Mode	Shift Position Switch in Sports Shift Down	Shift Position Switch in Sports Shift Up
Shift Solenoid DSU	Shift Solenoid SLC	Shift Solenoid SLD
Shift Solenoid SLN	Shift Solenoid SLS	Shift Solenoid SLT
Shift Solenoid SLU	SPD Test Status	Status Of EVAP Auto Test
Status Of EVAP Auto Test 1	Status Of EVAP Auto Test 2	Stop Light (Brake Switch 1)
Stop Light (Brake Switch 2)	Stop Light (Break Switch 1)	Target of CAM Phaser
Throttle Close Duty	Throttle Fully Closed Learn Value (Initial)	Throttle Idle Position
Throttle MOT	Throttle Motor Closing Duty Ratio	Throttle Motor Opening Duty Ratio
Throttle Open Duty	Throttle Position 2	Throttle Position Close Switch
Throttle Position No 2	Throttle Request Position	Throttle Target
Total Fuel Trim Bank 1	Total Fuel Trim Bank 2	Type of Fuel Tank Pressure Sensor
VSV A/C Clutch Relay	VSV A/C Cut	VSV A/C Idle Up
VSV AICV	VSV Air Bleed	VSV Automatic Oil Supply
VSV Boost Pressure Control	VSV Canister Pressure Control	VSV EGR System
VSV Engine Cooling	VSV EVAP Purge	VSV Exhaust ByPass VC
VSV Exhaust Gas Control	VSV Fuel Pressure UP	VSV Fuel Pump / Spd
VSV Fuel Pump Relay	VSV Intake Air Control	VSV Intake Control
VSV Pump for EVAP System	VSV Purge Cut	VSV SCV
VSV Secondary Air	VSV Super Charger Control	VSV Tank Pressure ByPass

	Relay	
VSV Vapor Pressure	VSV Variable Intake	VSV Vent Value
VSV VVT Control Bank 1	VSV VVT2 Control Bank 2	VSV VVT2 Intake Control
VSV VVTL Control Bank 1	VSV VVTL Control Bank 2	

Enhanced Powertrain CAN Sensors

2nd Air Monitor Complete	2nd Air Monitor Enabled	A/C Monitor Complete
A/C Monitor Enabled	A/C Signal	A/F Sensor Test Results (Bank 1)
A/F Sensor Test Results (Bank 2)	AC Monitor Completed	AC Monitor Supported
Acc Relay	Accelerator Position	Accelerator Position 1
Accelerator Position 2	Accelerator Position 1	Accelerator Position 2
Actual Engine Torque	AF Fuel Trim Bank 1 Sensor 1	AF Fuel Trim Bank 2 Sensor 1
AFS Fuel Trim Bank 1 Sensor 1	AFS Fuel Trim Bank 2 Sensor 1	After Injection
AI Operation Prohibit	Air Pump Pressure (Absolute)	Air Pump Pulsation Pressure
Air-Fuel Ratio	All Cylinders Misfire Rate	Alternate Duty Ratio
Ambient Temperature	AS Test	AT Fluid
Atmosphere Pressure	Battery Voltage	Brake Switch
Brake Switch Status	Calculated Load	Catalyst Monitor Complete
Catalyst Monitor Completed	Catalyst Monitor Enabled	Catalyst Monitor Supported
Catalyst Temperature (Bank 1 Sensor 1)	Catalyst Temperature (Bank 1 Sensor 2)	Catalyst Temperature (Bank 2 Sensor 1)
Catalyst Temperature (Bank 2 Sensor 2)	Check Mode	Closed Throttle Position Switch
Clutch Current	Combustion Status (D4)	Common Rail Pressure 2
Comprehensive Component Monitor Complete	Comprehensive Component Monitor Enabled	Comprehensive Component Monitor Supported
Coolant Temperature	Cylinder #1 Misfire Rate	Cylinder #2 Misfire Rate
Cylinder #3 Misfire Rate	Cylinder #4 Misfire Rate	Cylinder #5 Misfire Rate
Cylinder #6 Misfire Rate	Cylinder #7 Misfire Rate	Cylinder #8 Misfire Rate
Diesel Throttle Angle	Diesel Throttle Learning Status	Differential Pressure Feedback

Distance From DTC Cleared	DPNR A/F	DPNR Differential Pressure Sensor
DPNR Status (PM)	DPNR Status (S)	ECT Lock Up
EGR Close Learning Value	EGR Gas Temperature	EGR Learn Value
EGR Learning Status	EGR Monitor Complete	EGR Monitor Completed
EGR Monitor Enabled	EGR Monitor Supported	EGR Position
EGR Step Position	Electrical Load Signal	Engine Coolant Temperature (IN)
Engine Independently Control Operation	Engine Independently Operation	Engine Oil Pressure SW
Engine Run Time	Estimated Engine Torque	Estimated Intake Port Temperature
EVAP (Purge) VSV	EVAP Monitor Complete	EVAP Monitor Enabled
EVAP Vapor Pressure	EVAP Vapor Pressure (Wide)	Evaporative Monitor Completed
Evaporative Monitor Supported	Ex Fuel Addition Feedback	FC TAU
Fuel Cut for Engine Stop Request	Fuel ID	Fuel ID Switch
Fuel Level	Fuel Pressure	Fuel Pump Duty (D4)
Fuel System Monitor Complete	Fuel System Monitor Enabled	Fuel System Monitor Supported
Fuel System Status (Bank 1)	Fuel System Status (Bank 2)	Fuel Temp
G Sensor Calibration	G Sensor Learning Value	Heated Catalyst Monitor Complete
Heated Catalyst Monitor Completed	Heated Catalyst Monitor Enabled	Heated Catalyst Monitor Supported
HV Target Engine Speed	IDL Stable Control	Idle Fuel Cut
Ignition	Initial Engine Coolant Temperature	Initial Exhaust Temperature (IN)
Initial Exhaust Temperature (OUT)	Initial Intake Air Temperature	Injection Feedback Value
Injection Feedback Value 1	Injection Feedback Value 2	Injection Feedback Value 3
Injection Feedback Value 4	Injection Feedback Value 5	Injection Feedback Value 6
Injection Feedback Value 7	Injection Feedback Value 8	Injection Pressure Feedback Value
Injection Time (D4)	Injection Timing (D4)	Injection Volume

Injection Volume (Cylinder 1)	Injector	Intake Air Temperature (Turbo)
ISC Learning	ISC Learning Value	Judgement Time for Engine Output
Judgement Time for Ignition of Engine	Knock Correction Learning Value	Knock Feedback Value
Lock up	Lock up Solenoid Status	Main Injection
MIL Active	Misfire Load	Misfire Margin
Misfire Monitor Complete	Misfire Monitor Enabled	Misfire Monitor Supported
Misfire RPM	Misfire Test	Multiple Cylinders Misfire Rate
Neutral Position Switch Signal	NSW Test	Number of Troubles Codes
O2 (A/FS) Monitor Completed	O2 (A/FS) Monitor Supported	O2 Heater (A/FS) Monitor Completed
O2 Heater (A/FS) Monitor Supported	O2 Lean-Rich B1 S1	O2 Lean-Rich B2 S1
O2 Rich-Lea B2 S1	O2 Rich-Lean B1 S1	O2 Sensor After HC Adsorber and Catalyst (Bank 1)
O2 Sensor After HC Adsorber and Catalyst (Bank 2)	O2S (A/FS) Heater Monitor Complete	O2S (A/FS) Monitor Complete
O2S(A/FS) Heater Monitor Enabled	O2S(A/FS) Monitor Enabled	OXS1 Test
OXS2 Test	Pilot 1 Injection	Pilot 2 Injection
Power Steering Pressure Sensor	Power Steering Signal	Power Steering Switch
Pump VCM Angle	Purge Density Learning Value	Purge Flow
Racing Operation	Received A/T Oil Temperature from ECT	Received Accelerator Position from EFI
Received Coolant Temperature from EFI	Received Engine Speed from EFI	Received Intake-Air Temperature from EFI
Received MIL from ECT	Received Shift Position Signal from ECT	Received Throttle Position from EFI
Request Engine Run Time	Request Warm-up	Requested Engine Torque
Running Time From MIL On	SCV Angle (D4)	SCV Angle Sensor (D4)

SCV Status (D4)	Secondary Air Monitor Completed	Secondary Air Monitor Supported
Shift Status	Short Term Fuel Trim	SLN Solenoid Status
SLT Solenoid Status	SLU Solenoid Status	Solenoid (DS1)
Solenoid (DS2)	Solenoid (DSU)	Solenoid (SLC)
Solenoid (SLS)	SPD (NO)	SPD (NT)
SPD Test	ST Solenoid Status	Starter Control
Starter Relay	Starter Signal	Stop Light Switch
Tank Outlet Water Temperature	Target Common Rail Pressure	Throttle Motor
Throttle Motor Closing Duty Ratio	Throttle Motor Current	Throttle Motor Opening Duty Ratio
Throttle Open Switch	Throttle Position	Throttle Position 1
Throttle Position 2	Throttle Sensor Positioning	Throttle Sensor Positioning 2
Throttle Value Fully Closed	Time After DTC Cleared	Total Fuel Trim 1
Total Fuel Trim 2	Turbine Speed	Vapor Pressure (Tank)
Vapor Pressure (Pump)	Vapor Pressure (Calculated)	Vehicle Load
VNT Command	VNT Max Angle	VNT Min Angle
VNT Type	VVT Aim Angle (Bank 1)	VVT Aim Angle (Bank 2)
VVT Change Angle (Bank 1)	VVT Change Angle (Bank 2)	VVT Exhaust Change Angle (Bank 1)
VVT Exhaust Change Angle (Bank 2)	VVT Exhaust Hold Duty Ratio Learning Value (Bank 1)	VVT Exhaust Hold Duty Ratio Learning Value (Bank 2)
VVT Exhaust OCV Duty (Bank 1)	VVT Exhaust OCV Duty (Bank 2)	VVT OCV Operation Duty (Bank 1)
VVT OCV Operation Duty (Bank 2)	VVTL	VVTL OCV Operation Duty
VVTL Oil Pressure SW	Warm-up Cycle After DTC Cleared	Water Flow Valve

HVBatteryCAN Sensors

Accumulated Time of Battery LOW	Accumulated Time of Battery Too High	Accumulated Time of DC Inhibit
Accumulated Time of Hot Temperature	Auxiliary Battery Voltage	Battery Block Maximum Voltage
Battery Block Minimum Voltage	Battery Block Voltage -V01	Battery Block Voltage -V02

Battery Block Voltage - V03	Battery Block Voltage -V04	Battery Block Voltage -V05
Battery Block Voltage - V06	Battery Block Voltage -V07	Battery Block Voltage -V08
Battery Block Voltage - V09	Battery Block Voltage -V10	Battery Block Voltage -V11
Battery Block Voltage - V12	Battery Block Voltage -V13	Battery Block Voltage -V14
Battery State of Charge	Charge Control Signal	Charge Control Value for HV-ECU
Cooling Fan Mode	Cooling Fan Stop Control Request (Standby Blower)	Current Value of Battery Pack
Delta SOC	Discharge Control Value for HV-ECU	ECU Control Mode
Equal Charge Out Relay Signal	Equal Transaction Charge Permit Signal	Inhalation-of-Air Temperature In Battery Pack
Internal Resistance R01	Internal Resistance R02	Internal Resistance R03
Internal Resistance R04	Internal Resistance R05	Internal Resistance R06
Internal Resistance R07	Internal Resistance R08	Internal Resistance R09
Internal Resistance R10	Internal Resistance R11	Internal Resistance R12
Internal Resistance R13	Internal Resistance R14	Maximum Battery Block Number
Minimum Battery Block Number	Temperature of Battery TB1	Temperature of Battery TB2
Temperature of Battery TB3	The Number of Battery Block	VMF Fan Motor Voltage

HVECUCAN Sensors

Acceleration Sensor Main	Aircon Consumption Power	Aircon Gate Status
Aircon Request	Auxiliary Battery Voltage	Converter Carrier Frequency
Converter Gate Status	Converter Temperature	Converter Temperature After IG-ON
Converter Temperature Maximum	Crank Position	Cruise Control
Discharge Request to Adjust SOC	Drive Condition ID	Driving Pattern 1
Driving Pattern 2	Driving Pattern 3	Engine Fuel Cut
Engine Idling Request	Engine SPD	Engine Speed

Engine Stop Request	Engine Warming Up Request	Engine Warming up Request
Exclusive Information 1	Exclusive Information 2	Exclusive Information 3
Exclusive Information 4	Exclusive Information 5	Exclusive Information 6
Exclusive Information 7	Generator (MG1) Revolution	Generator (MG1) Torque
Generator (MG1) Torque Execute Value	HCAC OBD Request	Information N
Inverter Temperature (MG1)	Inverter temperature (MG1) After IG-ON	Inverter Temperature (MG1) Maximum
Inverter temperature (MG2)	Inverter Temperature (MG2)	Inverter temperature (MG2) After IG-ON
Inverter Temperature (MG2) Maximum	Loading Condition	Main Battery Charging Request
Master Cylinder Control Torque	MG1 Carrier Frequency	MG1 Control Mode
MG1 Gate Status	MG2 Control Mode	MG2 Gate Status
Motor (MG2) Revolution	Motor (MG2) Torque	Motor (MG2) Torque Execute Value
Motor temperature (MG2) After IG-ON	Motor Temperature (MG2) Maximum	Motor Temperature MG2 (No 1)
Motor Temperature MG2 (No 2)	Motor Temperature No1	Motor Temperature No2
Occurrence Order	Power Resource IB	Power Resource VB
Raising Pressure Ratio	Regenerative Brake Torque	Request Power
Request Regenerative Brake Torque	Shift Sensor Main	Shift Sensor Select Main
Shift Sensor Select Sub	Shift Sensor Shift Position	Shift Sensor Sub
Short Circuit Wave Highest Value	Smart Key Status	SOC
Status Of Charge	Status Of Charge After IG-ON	Status Of Charge Maximum
Status Of Charge MIN	Stop Swich	System Main Relay Status - Cont 1
System Main Relay Status - Cont 2	System Main Relay Status - Cont 3	Target Engine Revolution
The Difference Degree of an Accelerator	The Time of Ignition ON	Vehicle Speed (Max)
VH-Voltage After Raising Pressure	VL-Voltage Before Raising Pressure	WIN Control Power

WOUT Control Power

Immobilizer Sensors

Key Discrimination	Registered Key Number
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LaserCruise Sensors

Acceleration Request	Alarm Request	Cancel Switch
Car Distance Time Setting	Cruise Control	Cruise Control Main Switch (Main CPU)
Cruise Control Main Switch-Indicator (Main CPU)	Cruise Control Main Switch-Ready (Main CPU)	Cruise Control Memory Vehicle SPD
Cruise Control Vehicle SPD	Cruise Throttle Opening Angle	Diversion Direction of Beam Axis (Left or Right)
Diversion Direction of Beam Axis (Upper or Lower)	Diversion Value of Beam Axis (Left or Right)	Diversion Value of Beam Axis (Upper or Lower)
Laser Cruise Option Flag	O/D Cut Request	RES/ACC Switch
SET/COAST Switch	Shift D Position	Shift Down Request
Steering Angle	Stop Light Switch 1 (Sub CPU)	Stop Light Switch 2 (Main CPU)
Stop Light Switch 2 (Sub CPU)	Vehicle Distance	Yaw Rate Data

MasterSwitch Sensors

D Door P/W Auto Switch	Door Key Linked Lock Switch	Door Key Linked P/W Down
Door Key Linked P/W Up	Door Key Linked Unlock Switch	Door P/W Down Switch
Door P/W Up Switch	Glass Position (3/4 Open - Fully Open)	Glass Position (Fully Close - 1/4 Open)
Glass Position (Fully Close - 2/4 Open)	Glass Position (Fully Close - 3/4 Open)	Lock Position Sensor
Manual Door Lock Switch	Manual Door Unlock Switch	Memory Set Switch
P Door Remote P/W Auto Switch	P Door Remote P/W Down Switch	P Door Remote P/W Up Switch
Power Window Lock Switch	RL Door Remote P/W Auto Switch	RL Door Remote P/W Down Switch
RL Door Remote P/W Up Switch	RR Door Remote P/W Auto Switch	RR Door Remote P/W Down Switch

RR Door Remote P/W Up Switch	Seat Memory No 1	Seat Memory No 2
Seat Memory No 3	Wireless Power Window Down	Wireless Power Window Up

Meter Sensors

Input Value Of Fuel Gauge	Input Value Of Light Rheostat	Input Value Of Oil Gauge
ODO/TRIP Switch	Output Value Of Sub Fuel Gauge	Speedometer
Tachometer	TAIL CANCEL Switch	TRIP RESET Switch
Tube Temperature	Key Reminder Buzzer Volume	Key Reminder Buzzer Frequency
Light Reminder	Current Unit on Multi-Display	

Mirror Sensors

Accessory Switch	Driver Side Mirror Position Horizontal Sensor	Driver Side Mirror Position Vertical Sensor
Ignition Switch	Mirror Position DOWN Switch	Mirror Position LEFT Switch
Mirror Position RIGHT Switch	Mirror Position UP Switch	Passenger Side Mirror Position Horizontal Sensor
Passenger Side Mirror Position Vertical Sensor	Reverse Position Switch	Select Mirror Switch

MirrorLeft Sensors

Foot Lamp Setup	Mirror Position Sensor (Horizontal Direction)	Mirror Position Sensor (Vertical Direction)
Status Of Memory Position 1	Status Of Memory Position 2	Status Of Memory Position 3

MirrorRight Sensors

Foot Lamp Setup	Mirror Position Sensor (Horizontal Direction)	Mirror Position Sensor (Vertical Direction)
Status Of Memory Position 1	Status Of Memory Position 2	Status Of Memory Position 3

OCC Sensors

FL Sensor Range Information	FL Sensor Voltage	FL Sensor Weight Information
FR Sensor Range Information	FR Sensor Voltage	FR Sensor Weight Information
IG Switch	Passenger Classification	Passenger Side Buckle Switch
RL Sensor Range Information	RL Sensor Voltage	RL Sensor Weight Information
RR Sensor Range Information	RR Sensor Voltage	RR Sensor Weight Information
Sensor Range Information	Total Weight Information	

PassengerDoor Sensors

Cam Position Switch 1	Cam Position Switch 2	Cam Position Switch 3
Courtesy Switch	Door P/W Auto Switch	Double Lock Position Switch
Foot Light Lighting Time	Full Switch	Glass Position (3/4 Open to Fully Open)
Glass Position (Fully Close to 1/4 Open)	Glass Position (Fully Close to 2/4 Open)	Glass Position (Fully Close to 3/4 Open)
Half Switch	Jam Protection Limit Switch	Lock Position Switch
Mirror Position Sensor (Vertical)	Mirror Position Sensor (Horizontal)	Mirror Return Type
Pole Switch	Trespass Sensor	Trigger Switch

PassengerSeat Sensors

Current Front Vertical Position	Current Lifter Position	Current Reclining Position
Current Slide Position	D-Door Warning Switch	ECU Ignition Power Voltage
Front Vertical Down Switch	Front Vertical Up Switch	Ignition Switch
Key Unlock Switch	Lifter Down Switch	Lifter Up Switch
Memorized Front Vertical Position 1	Memorized Front Vertical Position 2	Memorized Lifter Position 1
Memorized Lifter Position 2	Memorized Reclining Position 1	Memorized Reclining Position 2
Memorized Slide Position 1	Memorized Slide Position 2	Memory Switch No 1
Memory Switch No 2	Memory Switch No 1 (M1)	Memory Switch No 2 (M2)
Passenger Door Courtesy	Reclining Front Switch	Reclining Position Initial Flag
Reclining Rear Switch	Seat Memory No 1	Seat Memory No 2

Set Switch	Shift "N" Position Switch	Shift "P" Position Switch
Slide Front Switch	Slide Rear Switch	Sliding Position Initial Flag
Status Of Motor	Stop Light Switch	Vehicle Speed

PowerSourceControl Sensors

ACC Relay Cut Signal	ACC Relay Monitor	Card Full-Insertion Detection Switch
Card Half-Insertion Detection Switch	Driving Request Of Starter	Engine Condition
Ignition 1 Relay Monitor (Inside)	Ignition 1 Relay Monitor (Outside)	Ignition 2 Relay Monitor (Inside)
Ignition 2 Relay Monitor (Outside)	Neutral Switch / Clutch Switch	Power Supply Condition
Ratch Circuit	Ready Signal	Shift P Signal
Shift P Signal Pulse	Start Switch 1	Start Switch 2
Starter Relay Monitor	Starter Requesting Signal Monitor	Steering Unlock Switch
Stop Lamp Switch 1	Stop Lamp Switch 2	Vehicle Speed Signal

RadarCCSCAN Sensors

Acceleration Request	Alarm Request	All Throttle Close Request
Brake Control Request	Cancel Switch	Car Distance Time Setting
Cruise Control	Cruise Control Brake Check	Cruise Control Main Switch (Main CPU)
Cruise Control Main Switch-Indicator (Main CPU)	Cruise Control Main Switch-Ready (Main CPU)	Cruise Control Memory Vehicle Speed
Cruise Control Vehicle Speed	Cruise Request Torque	Cruise Target Deceleration Slope
Cruise Throttle Opening Angle	Distribution Signal For Distance Control ECU	Distribution Signal For EFI ECU
Diversion Direction Of Beam Axis (Left Or Right For Laser And Radar)	Diversion Direction Of Beam Axis (Left Or Right)	Diversion Direction Of Beam Axis (Upper Or Lower For Laser)
Diversion Value Of Beam Axis (Distance For Radar)	Diversion Value Of Beam Axis (Left Or Right For Laser And Radar)	Diversion Value Of Beam Axis (Left Or Right)
Diversion Value Of Beam Axis (Upper Or Lower For	Laser Cruise Option Flag	O/D Cut Request

Laser)		
Resume /Accessory Switch	Set/Coast Switch	Shift D Position
Shift Down Request To 3rd Gear	Shift Down Request To 4th Gear	Stop Light Switch (Main CPU)
Stop Light Switch-1 (Sub CPU)	Stop Light Switch-2 (Sub CPU)	Type Of Sensor
Vehicle Distance	VSC Communication Fail Safe Flag	

RainSensor Sensors

Key Push Switch Signal	Key Switch Signal	Sensor High Temp Condition
Sensor Low Temp Condition	Sensor Reaction Condition	Washer Switch Signal
Wiper Switch Auto Signal	Wiper Switch Hi Signal	Wiper Switch Lo Signal
Wiper Switch Mist Signal		

RearLeftDoor Sensors

B Pillar Switch	Buzzer Volume During The PSD Operation	Cam Position Switch 1
Cam Position Switch 2	Cam Position Switch 3	Child Lock Switch
Closer Position Switch	Courtesy Switch	Door P/W Auto Switch
Door Position (1/4 Open to 2/4 Open)	Door Position (2/4 Open to 3/4 Open)	Door position (3/4 Open to Fully Open)
Door Position (Fully Close to 1/4 Open)	Double Lock Position Switch	Fuel Level Sub
Fuel Level Main	Fuel Lid Switch	Full Switch
Glass Position (3/4 Open to Fully Open)	Glass Position (Fully Close to 1/4 Open)	Glass Position (Fully Close to 2/4 Open)
Glass Position (Fully Close to 3/4 Open)	Half Switch	Handle Switch
Jam Protection Limit Switch	Lock Position Switch	Pole Switch
PSD Main Switch	PSD Switch Operation Condition	PSD Touch Sensor
Rear Seat Memory Switch Cancel	Rear Seat Memory Switch Memory	Rear Seat Memory Switch Set
Trespass Sensor	Trigger Switch	Wireless PSD Switch Operation Condition

RearLeftSeat Sensors

Cancel Switch	Current Headrest Position	Current Slide Position
Destination Information	Headrest Limit Switch	Ignition Switch
Memorized Headrest Position	Memorized Slide Position	Memory Status
Memory Switch	Rear Seat Return Switch	RL Door Open Linked With RL Seat Return
RL-Door Courtesy Switch	Set Switch	Shift P Position Switch
Status of Motor	Stop Light Switch	Vehicle Speed

RearRightDoor Sensors

B Pillar Switch	Buzzer Volume During The PSD Operation	Cam Position Switch 1
Cam Position Switch 2	Cam Position Switch 3	Child Lock Switch
Closer Position Switch	Courtesy Switch	Door P/W Auto Switch
Door Position (1/4 Open to 2/4 Open)	Door Position (2/4 Open to 3/4 Open)	Door position (3/4 Open to Fully Open)
Door Position (Fully Close to 1/4 Open)	Double Lock Position Switch	Fuel Level Sub
Fuel Level Main	Fuel Lid Switch	Full Switch
Glass Position (3/4 Open to Fully Open)	Glass Position (Fully Close to 1/4 Open)	Glass Position (Fully Close to 2/4 Open)
Glass Position (Fully Close to 3/4 Open)	Half Switch	Handle Switch
Jam Protection Limit Switch	Lock Position Switch	Pole Switch
PSD Main Switch	PSD Switch Operation Condition	PSD Touch Sensor
Rear Seat Memory Switch Cancel	Rear Seat Memory Switch Memory	Rear Seat Memory Switch Set
Trespass Sensor	Trigger Switch	Wireless PSD Switch Operation Condition

RearRightSeat Sensors

Cancel Switch	Current Headrest Position	Current Slide Position
Destination Information	Headrest Limit Switch	Ignition Switch

Memorized Headrest Position	Memorized Slide Position	Memory Status
Memory Switch	Rear Seat Return Switch	RR Door Courtesy Switch
RR Dr Open Linked w/RR Seat Return	Set Switch	Shift P Position Switch
Status of Motor	Stop Light Switch	Vehicle Speed

RearSeatSwitch Sensors

Ignition Switch	RL-Seat Headrest Down Switch	RL-Seat Headrest Up Switch
RL-Seat Refreshing ECU Start Switch	RL-Seat Refreshing ECU Stop Switch	RL-Seat Slide Front Switch
RL-Seat Slide Rear Switch	RR-Seat Headrest Down Switch	RR-Seat Headrest Up Switch
RR-Seat Refreshing ECU Start Switch	RR-Seat Refreshing ECU Stop Switch	RR-Seat Slide Front Switch
RR-Seat Slide Rear Switch		

SequentialManual Sensors

1st Drive Gear Teeth Number	1st Driven Gear Teeth Number	1st Gear Position (Select Position)
1st Gear Position (Shift Position)	2nd Drive Gear Teeth Number	2nd Driven Gear Teeth Number
2nd Gear Position (Select Position)	2nd Gear Position (Shift Position)	3rd Drive Gear Teeth Number
3rd Driven Gear Teeth Number	3rd Gear Position (Select Position)	3rd Gear Position (Shift Position)
4th Gear Position (Select Position)	4th Driven Gear Teeth Number	4th Gear Position (Shift Position)
5th Drive Gear Teeth Number	5th Driven Gear Teeth Number	5th Gear Position (Select Position)
5th Gear Position (Shift Position)	6th Gear Position (Select Position)	6th Gear Position (Shift Position)
A/C Switch Signal	Accelerator Pedal Angle	Accumulate Pressure
Backup Engine Speed	Buzzer Output Status	CAN Communication
Changing Gear	Clutch Clamp Position	Clutch Coast Position
Clutch Disengaging	Clutch Engaging	Clutch Fully Disengaged

Clutch Fully Engaged	Clutch Position (Current)	Clutch Position (Target)
Clutch Solenoid Current	Clutch Solenoid Null Position	Clutch Touch Position
Cold Condition Judgment	Cruise Control Inhibit	Door Lamp Signal
Driver Demand Torque	Engine Loss Torque	Final Drive Gear Teeth Number
Final Driven Gear Teeth Number	Gear Indicator Position	Gear Indicator Position (R & N)
Gear Position (Current)	Gear Position (Target)	IDL Switch Signal
Idle Set Speed	Ignition Signal	Master Solenoid Current
Master Solenoid Null Position	MIL Illumination	Motor Pump Relay Signal
Neutral Position (Select Position)	Neutral Position (Shift Position)	NSW Signal
NSW Switch Signal	Requested Engine Speed	Requested Engine Torque
Reverse Driven Gear Number	Reverse Driven Gear Teeth Number	Reverse Gear Select Position
Reverse Gear Shift Position	Select Position (Current)	Select Position (Target)
Select Solenoid Current	Select Solenoid Null Position	Shift Level - Invalid Position
Shift Level - Reverse	Shift Level - SAS	Shift Level - SAS Change Down
Shift Level - SAS Change Up	Shift Lever Check Signal 1	Shift Lever Check Signal 2
Shift Lever Check Signal 3	Shift Lever Check Signal 4	Shift Lever Switch Signal 1
Shift Lever Switch Signal 2	Shift Lever Switch Signal 3	Shift Lever Switch Signal 4
Shift Position (Current)	Shift Position (Target)	Shift Pressure
Shift Solenoid Current	Shift Solenoid Null Position	SPD Switch Signal
Steering SW Signal DOWN	Steering SW Signal UP	STP Switch Signal
T/M Input Shaft Speed	T/M Mutual Switch Signal	T/M Reverse Switch Signal
The Number Of Stored DTCs	Theoretical Engine Torque	Torque Reduction Request
Wheel Speed FL	Wheel Speed FR	Wheel Speed RL
Wheel Speed RR	XTEST Switch Signal	

SlideRoof Sensors

Close Switch	Close With Door-Key	Close With Wireless
D-Door Warning Switch	Direction Of Door-Key	Direction Of Wireless

	Operation	Operation
Door-Key Close Operation	Door-Key Open Operation	Hall IC1 Pulse
Hall IC1 Status	Hall IC2 Pulse	Hall IC2 Status
Ignition (Bit)	Ignition Switch	Limit Switch 1
Limit Switch 2	Motor Pulse	Motor Status
Open Switch	Open With Door-Key	Open With Wireless
Permission Of Key Off Operating	Slide Roof Closed Signal	Tilt Down Switch
Tilt Up Switch	Wireless Close Operation	Wireless Open Operation

SMART Sensors

3Bit Code Request (PAST)	3bit Code Request	Accessory Switch
Backdoor Opening Operation	Backdoor Opening Operation When Vehicle Is Locked	D-Door Touch Sensor
D-Door Trigger Switch	Wireless - Different Rolling Code	DR-Door Touch Sensor
DR-Door Trigger Switch	Engine Start Condition	Engine Start Request
Engine Start Request (PAST)	Wireless - ID Code Difference	IDBOX Sleep Condition
IDBOX Start Condition	Ignition (Lin)	Ignition 2 Status
Ignition Switch	IMMOBILIZER	Interval To Send A Signal To Verify SMART Entry
Key Unlock Warning Switch	L Code Check	L Code Check (Past)
Lock Bar Stuck Error	Lock Request Receive	Lock/Unlock Receive
Motor Driver Open	Motor Driver Short	P-Door Touch Sensor
P-Door Trigger Switch	PERMIT (START)	Power Save Counter - 10 Minutes
Power Save Counter - 14 Days	Power Save Counter - 5 Days	Power Supply Open
Power Supply Short	PR-Door Touch Sensor	PR-Door Trigger Switch
Push Start Error	Registered Condition Of Master Key Id #1	Registered Condition Of Master Key Id #2
Registered Condition Of Master Key Id #3	Registered Condition Of Master Key Id #4	Registered Condition Of Master Key Id #5
Registered Condition Of Master Key Id #6	Registered Condition Of Master Key Id #7	Registered Condition Of Master Key Id #8
S Code Check	S Code Check (Past)	Sensor Value

Setting A Number Of Warning Buzzer Sounds	Setting Warning Buzzer Sound Number	SMART Cancel Switch
SMART Door Unlock Mode	SMART Function Cancel Switch	SMART ID - C Code Difference
SMART ID - Code Difference (Response)	SMART ID - Key Low Battery	SMART ID - No Response
SMART ID - Unmatched Response Code Or Format	SMART ID - Unmatched Vehicle-ID	SMART Ignition Available Area
Steering Lock Sleep Condition	Steering Lock Start Condition	Tansponder ID - Abnormal Status
Tansponder ID - BCC Malfunction	Tansponder ID - Different Encrypt Code	Tansponder ID - Different Serial Number
Tansponder ID - Frame Error	Tansponder ID - Master Key	Tansponder ID - Response
Tansponder ID - Sub Key	Trunk Open Mode When The Key Is Left In A Trunk	Trunk Open Mode With SMART When Vehicle Is Locked
Trunk Open Mode With When Vehicle Is Locked	Trunk/Back-Door Lock Switch	Trunk/Back-Door Unlock Switch
Unlock Request Receive	Wait Time To Permit Opening Door After Locking	Warn A Key Is Taken From D-Door With P Range
Warn A Key Is Taken From D-Door Without P Range	Warn A Key Is Taken Out By Fellow Passengers	Warn Locking Door When Engine Is Idling
Warn Starting E/G When The Key Is Out Of Range	Warn When The Key Battery Becomes Weak	Warn When The Key Is Left In The Vehicle
Wireless C Code	Wireless Starter Communication ID	

SteeringLock Sensors

+B	Check (Security)	Communication ID Confirmation No.
FCVC Status / Check-Sum Error	FCVC Status / Code Incorrect Status	FCVC Status / Code Learning Status
FCVC Status / Codeline Failure	FCVC Status / Factory Code Initializing	FCVC Status / FCVC Failure
FCVC Status / No Response From FCVC For 10s	FCVC Status / Unlock Status	G-Code Support Status
Ignition Switch	Immobilizer	Key Switch
Lock Position Sensor	P2 Switch	Permission To Start

Push Switch	Registered Master Transponder Code No.	Registered Sub Transponder Code
Registration Error 1 / Password Error	Registration Error 2 / Number Error	Registration Error 3 / EFI Reg-Status
Security B Code Confirmation	Space For Code Registration	Steering Lock
The Number Of Registered Key	Transponder ID - Abnormal Bcc	Transponder ID - Abnormal Status
Transponder ID - Frame Error	Transponder ID - Master Key Matching	Transponder ID - No Response
Transponder ID - Sub Key Matching	Transponder ID - Unrecognized Encrypted Code	Transponder ID - Unrecognized Serial No.
Unlock Position Sensor	Unlock Sensor	

SteeringPad Sensors

Accessory Switch Signal	Audio Mode Switch	Audio Selector DOWN Switch
Audio Selector UP Switch	Audio Volume DOWN Switch	Audio Volume Set Switch
Audio Volume UP Switch	Horn Switch	Ignition Switch Signal
Meter Multi DSP1 Switch	Meter Multi DSP2 Switch	Meter Multi-Reset Switch
Rheostat Signal	Speech Recognition Hook Switch	Tail Lamp Signal

StopAndGo Sensors

1st and 2nd Switch	A/C Signal	Alternator L Terminal
Ambient Temp Sensor	Battery Current	Battery Voltage
Brake Boost Pressure	Buzzer	Cancel Switch
Charge Lamp	Clutch Lower SW	Clutch Upper SW
Coolant Temp	Coolant Temp (Cranking)	Cranking Time
CRC Stroke Sensor	D Courtesy Switch Signal	Eco Run (Clutch Condition)
Eco Run (Idle Condition)	Eco Run (Pre-Condition)	Eco Run (Shift Condition)
Eco Run (Vehicle Speed)	Eco Run Mode	Eco Run Mode Indicator
Eco Run Operate Indic.	Engine Hood Switch 1	Engine Hood Switch 2
Engine Speed (EFI ECU)	Engine Speed (NE signal)	Engine Start (Battery)

Engine Start (Brake)	Engine Start (Moving)	Engine Start (Shift Condition)
Engine Start (Stop Condition)	Engine Start (Vacuum)	Indicator. Lamp Oil
Learning Volt (CRC Lo)	Learning Volt (CRC Up)	Minimum Voltage (Cranking)
Multiple Current (1Trip)	Multiple Current (30 Min)	Neutral Switch
Oil Pressure Switch	Reverse	Starter Control Signal
Starter Operation #	Starter Signal	Stop Light Switch
TC Terminal	Vacuum for Brake	Vehicle Speed (EFI ECU)
Vehicle Speed (Speed Signal)		

TAndT Sensors

Belt Memory 1	Belt Memory 2	BODY No.1 ECU Information
BODY No.2 ECU Information	COMBI ECU Information	Freeze Speed Information
IG Switch (MPX)	Ignition Switch	Key Code Confirm(Mpx)
Key Switch (MPX)	Meter ECU Information	Mirror Manual Select
Power ECU Info	Power Source Voltage	S/B Memory Position 2
SB Position	SEAT ECU Information	Steering Lock ECU Information
T&T Auto Away Function	T&T Manual Switch Data	T&T Memory 1
T&T Memory 2	T&T Memory 3	Telesco Long Switch
Telesco Short Switch	Telescope Long Limit Point	Telescope Long Limit Position
Telescope Long Manual Switch (MPX)	Telescope Memory Position 1	Telescope Memory Position 2
Telescope Memory Position 3	Telescope Position (Analog)	Telescope Position (Pulse)
Telescope Return Position	Telescope Short Limit Point	Telescope Short Limit Position
Telescope Short Manual Switch (MPX)	Tilt Down Limit Point	Tilt Down Limit Position
Tilt Down Manual Switch (MPX)	Tilt Down Switch	Tilt Memory Position 1
Tilt Memory Position 2	Tilt Memory Position 3	Tilt Position (Analog)
Tilt Position (Pulse)	Tilt Return Position (Pulse)	Tilt Return Position
Tilt Up Limit Point	Tilt Up Limit Position	Tilt Up Manual Switch

		(MPX)
Tilt Up Switch		

TDS Sensors

Additional Sensor Input	Alarm Trigger	Articles - Garage Mode
Articles - IG Door Lock	Articles - Piezo Buzzer Defeat	Auto Light Switch
Auto-Lock Function By Vehicle Speed (Once)	Automatic Door Lock Linked With Shift P/Stop Lamp	Back Door Lock
Back Door Unlock	Buzzer Cancel Switch	Buzzer Length
Carry Out Key Buzzer	Door Open/Close Buzzer	Door Open/Close Buzzer When Parking
Door Trigger Switch Control P/W	Double Lock Set	Half Lock Buzzer
Hazard Answer Back	Head Light Switch (Head)	Head Light Switch (Tail)
Hood Courtesy Switch	Ignition Switch	Intrusion Sensor
Key Battery Warning Buzzer	Key Inside Lock Buzzer	Key No Fit Warning Buzzer
Light Control - Auto Turn Off Delay	Light Control - Control Type	Light Control - Response Time
Light Control - Sensitivity	Luggage Courtesy Switch	Luggage Door Lock/Unlock Switch
Master Key ID No.0	Master Key ID No.1	Master Key ID No.2
Master Key ID No.3	Master Key ID No.4	Master Key ID No.5
Master Key ID No.6	Master Key ID No.7	Master Key Number Of Registered ID Code
Number Of Registered ID Code	Panic Alarm Function	Panic Switch Input
Park Wait Time	Passive Mode (Security System)	P-ON D-OP Buzzer When Parking
P-ON D-OP-CL Buzzer	Security - Accessory Switch	Security - Entry Delay Time
Security - Glass Break Sensor	Security - Intrusion Sensor	Security - Intrusion Sensor OFF Switch
Security - Key Unlock Warning Switch	Security - Push Switch	Security - Seat Type
Smart Buzzer Number	Smart Buzzer Volume	Smart Cancel Switch
SMART Code - Battery	SMART Code - Power	SMART Code - Power

Consume	Save Counter - 10 Minutes	Save Counter - 14 Days
SMART Code - Power Save Counter - 5 Days	SMART Code - Unmatched Response Code Format	Smart Ignition
SMART Switch - No Response	SMART Switch - Unmatched Key No.	SMART Trunk
SMART Trunk Key In Check	Sub Key ID No.0	Sub Key ID No.1
Sub Key ID No.2	Sub Key ID No.3	Sub Key ID No.4
Sub Key ID No.5	Sub Key ID No.6	Sub Key ID No.7
Sub Key Number Of Registered ID Code	Time Until Re-Locking After Unlocking With The Wireless	Transmitter Interval At Parking
Unlock All The Door When Opening D-Door Until 10sec After Turning IG OFF	Unlock The Door By 2 Times Operation	Unlock The Door By 2 Times Operation With Wireless
Unlock With Shift P And IG-ON	Warning Buzzer If The Door Is Opened When Locking	Warning By Glass Broken Sensor
Wireless Buzzer Volume	Wireless Operation Switch	Wireless Power Window Down
Wireless Power Window Up	Wireless Trunk Lid Operation	

TMControl Sensors

ACC Condition Signal	BATT Voltage Status	BATT Voltage Value
Completion Of Detecting Lock Position	Completion Of Detecting Unlock Position	Completion Of Learning Lock Position
Completion Of Learning Unlock Position	Detail Information 1	Detail Information 2
Detail Information 3	ECU Type	Electrical Key Signal
Fail Rank	IG (+B) Phase Voltage Status	IG (+B) Voltage Value
Initial Drive Control Completed	Main Relay	Main Relay For Motor Drive
Master Caution Display	Number Of Trip Counter After Learning	P/Not P Movable Shift Range
Power Supply Off Preparation Request Signal	PSW Indicator Mode	Shift Position Display (Not P)
Shift Position Display (P)	U Phase Current-Carrying	U Phase Voltage Status

	Status	
U Phase Voltage Value	V Phase Current-Carrying Status	V Phase Voltage Status
V Phase Voltage Value	Vehicle Condition	W Phase Current-Carrying Status
W Phase Voltage Status	W Phase Voltage Value	

TPWS Sensors

TPWS Mode	2nd Tire	Main Tire
Registered 2nd Tire	Registered Main Tire	Paint color of ID1 Transmitter
Paint color of ID2 Transmitter	Paint color of ID3 Transmitter	Paint color of ID4 Transmitter
Registered ID	Initialization Switch Status	Select Switch Status
Vehicle Speed	ID1 Tire Inflation Pressure	ID2 Tire Inflation Pressure
ID3 Tire Inflation Pressure	ID4 Tire Inflation Pressure	ID1 Temperature in Tire
ID2 Temperature in Tire	ID3 Temperature in Tire	ID4 Temperature in Tire
ID1 Battery Voltage	ID2 Battery Voltage	ID3 Battery Voltage
ID4 Battery Voltage	ID Code Transmission Place	Registered ID1 code (Upper 1-4 Bit)
Registered ID2 code (Upper 5-12 Bit)	Registered ID3 code (Upper 13-20 Bit)	Registered ID4 code (Upper 13-20 Bit)
Registered ID5 code (Upper 13-20 Bit)	ID Code Transmission Status	ID1 Tire Inflation Pressure
ID2 Tire Inflation Pressure	ID3 Tire Inflation Pressure	ID4 Tire Inflation Pressure
ID5 Tire Inflation Pressure	ID1 Temperature in Tire	ID2 Temperature in Tire
ID3 Temperature in Tire	ID4 Temperature in Tire	ID5 Temperature in Tire
ID1 Battery Voltage	ID2 Battery Voltage	ID3 Battery Voltage
ID4 Battery Voltage	ID5 Battery Voltage	ID1 Initial Threshold of Low-Pressure
ID2 Initial Threshold of Low-Pressure	ID3 Initial Threshold of Low-Pressure	ID4 Initial Threshold of Low-Pressure
ID5 Initial Threshold of Low-Pressure	Initialization Switch Setting Information	Select Switch Setting Information

VGRS Sensors

Actuator Deviation Angle	Actuator Estimate Temperature	Actuator Lock Duty Value
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Actuator Position	Actuator ReVolution Speed	Actuator Target Angle
Command Value Duty	Engine Over-Reved	Estimated Motor Current
IG-Power Source Volt	Lock Motor Output Volt	Motor Estimated Current
Motor Lo Power Record	Motor Overheat Record	Motor Overload Record
Motor Power Source Current	Motor Rev Angle Sensor U	Motor Rev Angle Sensor V
Motor Rev Angle Sensor W	PIG-Power Source Volt	Record of Wheel Speed Malfunction (Left)
Record of Wheel Speed Malfunction (Right)	Rewipe control	Steering Angle Velocity
Steering Pos 1 (Paralell)	Steering Pos 2 (Serial)	Steering Sensor 1
Steering Sensor 2	Steering Sensor 3	Straight Angle Valid Flag
Terminal Voltage U	Terminal Voltage V	Terminal Voltage W
Test Mode	Thermistor Temperature	Vehicle Speed (VSC ECU)
Wheel Speed (Left)	Wheel Speed (Right)	

Wiper Sensors

Auto Wiper	Brake Pedal Switch Input	Front Wiper Switch Input
Neutral Switch Input	Rewipe Control	Speed Mode
Washer Switch Input	Wiper Auto Switch Input	Wiper Hi Switch Input
Wiper Lo Switch Input	Time Control Switch Position	

ABS Active Commands

SRLR	SRRH	SRRR
SFLH	SFLR	SFRH
SFRR	SRCR	SRCF
SPFL	SPFR (STR)	SMR (SA3)
SMFL (SA2)	SMFR (SA1)	Exhaust Brake Cut Relay
HB Motor Relay Operation	Stop Light Relay	Pre-Charge Pump
Trac Motor Relay	ABS Motor Relay	Solenoid Relay
Operation Of Sub-Throttle	4WD Warning Light	ABS Warning Light
Brake Warning Light	Slip Indicator Light	VSC/TRAC Off Indicator Light

VSC Warning Light	ABS Warning Light	VSC/Brake Warning Buzzer
SS	SMC2	SMC1
SLA Electric Current	SLR Electric Current	SRLR & SRLH
SRH & SRR	SFLR & SFLH	SFRR & SFRH
SA2	SA1	H/B Motor Relay
ABS Motor Relay	Solenoid Relay	Brake Warning Light
ABS Warning Light	VSC/Brake Warning Buzzer	SRLR
SRLH	SRRR	SRRH
SFLR	SFLH	SFRR
SFRH	SPFL	SPFR
SMR	SMF (BA-Sol)	SRMR (SMCR, SR)
SRMF (SMCF, SA3)	SRCR (SA2, SBA1)	SRCF (SA1)
Operation Of PPS Solenoid	Accumulator Zero Down Activation	Stroke Simulator Cut Valve Pattern Activation
Master Cut Valve 2 Activation	Master Cut Valve 1 Activation	ECB Invalid
Actuator Air Bleeding Pattern Activation	Power Supply Air Bleeding Pattern Activation 2	Power Supply Air Bleeding Pattern Activation 1
ECB Indicator Light	Main Relay 2 For ECB	Main Relay 1 For ECB
RL Wheel Air Bleeding Pattern Activation	RR Wheel Air Bleeding Pattern Activation	Motor Relay 2
Motor Relay 1	Pump Check Pattern Activation	Drain System Air Bleeding Pattern Activation

ActiveFrontSteering Active Commands

Drive the Leveling Motor (UP)	Drive the Leveling Motor (DOWN)	Drive Swivel Motor RH
Drive Swivel Motor LH	AFS OFF Indicator	

AirConditioning Active Commands

Actuator Check	Blower Motor	Air Mix Damper (Driver Side)
Air Mix Damper (Passenger Side)	Air Outlet Damper Position (Driver Side)	Air Inlet Damper Position (Linear)
Blower Motor (Rear)	Air Mix Damper (Rear)	Air Outlet Damper Position (Rear)
Compressor Target Speed	Magnetic Clutch Relay	Defogger Relay (Rear)

Deicer Relay (Front)	Water Pump	Electrical Fan
Air Mix Servomotor Pulse (Driver Side)	Air Mix Servomotor Pulse (Passenger Side)	Air outlet Servomotor Pulse (Driver Side)
Air Inlet Damper Target Pulse	Cool Air Bypass Pulse	

AirSuspension Active Commands

RR Height Up	RR Height Down	Damper Step FR
Damper Step FL	Damper Step RR	Damper Step RL
RL Wheel Up/Down	RR Wheel Up/Down	FL Wheel Up/Down
Fr Wheel Up/Down	RL Wheel Up/Down	RR Wheel Up/Down
FL Wheel Up/Down	FR Wheel Up/Down	Low Pressure Tank Solenoid
Motor Relay	RL Solenoid	RR Solenoid
FL Solenoid	FR Solenoid	Motor Relay
Low Pressure Tank Solenoid	Rear Gate Solenoid	Rear Leveling Solenoid

AutomaticHeightControl Active Commands

Main Relay	Motor Relay	Accumulator Solenoid
Front Gate Solenoid	Front Leveling Solenoid	Rear Gate Solenoid
Rear Leveling Solenoid	Front Wheel Up	Rear Wheel Up
Front Wheel Down	Rear Wheel Down	

BackDoor Active Commands

Power Window Up	Power Window Down	Door Lock
Door Unlock	Rear Wiper	Latch Release
PBD Motor	PBD Clutch	PBD Buzzer
Courtesy Switch Signal		

Body Active Commands

Security Indicator	Key Remainder Buzzer	Security Horn
Hazard	Wireless Buzzer (Continuous Sound)	Wireless Buzzer
Trunk Lid Open	Rear Wiper Motor	Rear Washer Relay Operation
Wiper Motor LO	Wiper Motor HI	Wiper Angle Control
Wiper Motor	Headlight (Hi) Relay	DRL Relay
Turn Lamp RH Relay	Turn Lamp LH Relay	Rear Fog Light Relay

Operation	Operation	
Front Fog Light Relay	Headlight (Lo) Relay	Taillight Relay
Dimmer Signal	Rheostat Cancel Operation	Rear Buckle Light Output
Passenger Buckle Light Output	Driver Buckle Light Output	Illuminated Entry System
Open Door Warning Light	All Courtesy	IG OFF Power Window Control Permission Output
Vehicle Horn	Shoulder Belt Operation DOWN	Shoulder Belt Operation UP
Center Console Light Operation	Step Light Operation	Scuff Plate Light
Rear Room Light	Doom Relay Cut	Interior Panel Relay
Passenger Power Window Up/Down	RL Power Window Up/Down	RR Power Window Up/Down
Door Lock	Shift R Signal	Rear Defogger
Head Light Cleaner	Other ECU Power Cut	Shock Detection Unlock
Intrusion Sensor Power	Security Horn 2	

BodyIII Active Commands

Front Room Light	Rear Room Light RH	Rear Room Light LH
Step Light	Console Light	Wiper Motor (Hi)
Wiper Motor (Lo)	Shoulder Belt UP	Shoulder Belt DOWN
Buckle Light	Reverse Signal Control	

BodyIV Active Commands

Tail Light	Rear Fog Light	Stop Light
License Light	High Mount Light	Back-Up Light
Trunk Lid Open	Luggage Light	Fuel Lid Open
Rear DEF		

BodyV Active Commands

Head Light (Hi)	Front Fog Light	DRL
Clearance Light	Washer Motor	Horn Relay

ClearanceSonar Active Commands

Front Buzzer	Rear Buzzer
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DriverDoor Active Commands

Power Window Up	Power Window Down	Door LOCK
Door UNLOCK	Double Lock Unset	Mirror UP
Mirror DOWN	Mirror LEFT	Mirror RIGHT
Mirror FOLD	Mirror RETURN	Foot Light
Mirror Heater	Inside Handle Illumination	

DriverSeat Active Commands

Slide Front	Slide Rear	Lifter Up
Lifter Down	Front Vertical Up	Front Vertical Down
Reclining Front	Reclining Rear	Cushion Front
Cushion Rear	Headrest Up	Headrest Down

ECTCAN Active Commands

Control the Line Pressure Up	Control the Lock Up	Control the Shift Position
Connect the TC and TE1		

EnhancedPowertrain Active Commands

Injector Volume	Idle Air Control	EGR Step
A/C Cut Signal	Variable Intake VSV	Fuel Pressure Up VSV
EGR System	Intake Control VSV1	Fuel Pump Relay
Secondary Air VSV	SCV VSV	Idle Up VSV
Fuel Pump / SPD	Purge Cut VSV	A/C Magnetic Clutch Relay
EVAP Purge VSV	EVAP Purge VSV (Alone)	VVT Control (Bank 2)
Intake Control VSV2	Super Charger Control Relay	VVT Control (Bank 1)
Boost Pressure Control VSV	Automatic Oil Supply	Air Bleed
Intake Air Control VSV	Exhaust Gas Control VSV	Exhaust ByPass Valve
E-ABV Step	Shift Position	Lock Up Soleniod
O/D Cut Soleniod	C/D Control Soleniod	Line Pressure Up Soleniod
Slip Control Soleniod	Fuel Cut Idle Prohibit	TC/TE1
Active Control Mount Inhibit	Fuel Shut-Off Valve for Delivery Pipe	Fuel Shut-Off Valve for Fuel Pressure
Stoichiometric Ratio Combustion	Stratified Charge Combustion	HC Adsorber and Catalyst VSV
SB Solenoid	SLC Solenoid	DSU Solenoid

ST Solenoid	Vacuum Pump	Vent Value
Electric Cooling Fan	VSV for AICS	VVTL System (Bank 2)
VVTL System (Bank 1)	VSV for Tank Bypass	VSV for Canister Control
Shift Position	SLS Pressure	Injection Timing #8
Injection Timing #7	Injection Timing #6	Injection Timing #5
Injection Timing #4	Injection Timing #3	Injection Timing #2
Injection Timing #1	ACC Cut Relay	Starter Relay
ETCS Opening Slow Speed	ETCS Closing Slow Speed	ETCS Opening Fast Speed
ETCS Closing Fast Speed	Cylinder #8 Fuel Cut	Cylinder #7 Fuel Cut
Cylinder #6 Fuel Cut	Cylinder #5 Fuel Cut	Cylinder #4 Fuel Cut
Cylinder #3 Fuel Cut	Cylinder #2 Fuel Cut	Cylinder #1 Fuel Cut
VVT Linear (Bank 1)	VVT Linear (Bank 2)	Water Flow Valve 5
Water Flow Valve 4	Water Flow Valve 3	Water Flow Valve 2
Water Flow Valve 1	Water Pump	VVT Exhaust Linear (Bank 1)
VVT Exhaust Linear (Bank 2)	Step Motor for Turbo Charger Test	Fuel Leak Test
SCV Duty Ratio	VSV for Exhaust Shutter	Turbo Pressure Sensor VSV
VSV for EGR Cut	EGR Step Position	DPNR Reju (S)
DPNR Reju (PM)		

HVBatteryCAN Active Commands

Driving the Battery Cooling Fan	Discharging Battery to Check Weak Battery Cells	External Charger Relay
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HVECUCAN Active Commands

Inspection Mode - 2WD Inspection	Inspection Mode - 2WD Chassis-Dynamo	Battery Charge
Forcible Stop of Inverter Drive	Cranking Request	

Immobilizer Active Commands

Security Indicator	Meter Buzzer	Not Passenger Position Warning
Meter Chime		

LaserCruise Active Commands

Beam Axis Adjustment Mode

MasterSwitch Active Commands

Power Window Up	Power Window Down
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Meter Active Commands

280 Km/h (MPH)	240 Km/h (MPH)	200 Km/h (MPH)
160 Km/h (MPH)	120 Km/h (MPH)	80 Km/h (MPH)
40 Km/h (MPH)	0 Km/h (MPH)	Tachometer 7000 RPM
Tachometer 6000 RPM	Tachometer 5000 RPM	Tachometer 4000 RPM
Tachometer 3000 RPM	Tachometer 2000 RPM	Tachometer 1000 RPM
Tachometer 0 RPM	Fuel Gauge FULL	Fuel Gauge 3/4
Fuel Gauge 1/2	Fuel Gauge 1/4	Fuel Warning Lamp
Fuel Gauge EMPTY	Fuel Gauge EMPTY (Off)	Coolant Temperature 127
Coolant Temperature 120	Coolant Temperature 110	Coolant Temperature NORMAL
Coolant Temperature 80	Coolant Temperature 70	Coolant Temperature 60
Coolant Temperature 50	Shift Indicator P	Shift Indicator R
Shift Indicator N	Shift Indicator D	Shift Indicator 4M
Shift Indicator 3M	Shift Indicator 2	Shift Indicator L
Brake Warning Indicator Lamp	Discharge Warning Indicator Lamp	Oil Pressure Warning Indicator Lamp
Driver-Seat Belt Reminder Indicator Lamp	Passenger-Seat Belt Reminder Indicator Lamp	Open Door Warning Indicator Lamp
Low Fuel Warning Indicator Lamp	Rear Light Indicator Lamp	Oil Level Warning Indicator Lamp
Rear Fog Indicator Lamp	ECT Power Indicator Lamp	ECT Snow Indicator Lamp
Cruise Control Indicator Lamp	Taillight Indicator Lamp	Headlight Indicator Lamp
Turn-R Indicator Lamp	Turn-L Indicator Lamp	High Beam Indicator Lamp
SRS Warning Indicator Lamp	Low Washer Warning	Check Engine Indicator Lamp
ARS Warning Indicator Lamp	VSC Warning Indicator Lamp	Slip Indicator Lamp
TRC Off Indicator Lamp	ABS Warning Indicator Lamp	O/D Off Indicator Lamp
Radar Cruise Ready Indicator Lamp	Radar Cruise Check Indicator Lamp	Radar Cruise Display Indicator Lamp

ODO/TRIP Display Indicator Lamp	A/T Oil Temperature Indicator Lamp	Front Fog Indicator Lamp
Tire Pressure Warning Indicator Lamp	Headlight Auto Leveling Indicator Lamp	VSC Off Indicator Lamp
Compass Display Indicator Lamp	Econo Indicator Lamp	Key Reminder Buzzer
Light Reminder Buzzer	Seat Belt Buzzer	Reverse Buzzer
Sports Shift Reject Buzzer	Speed Buzzer	Warning Buzzer
Indicate A/T Shift LCD	Indicate AFS OFF Lamp	Indicat. SMART KEY
Voltage Meter 18V	Voltage Meter 15V	Voltage Meter 12V
Voltage Meter 9V	Voltage Meter 6V	Voltage Meter 3V
Voltage Meter 0V	Oil Pressure H	Oil Pressure 3/4
Oil Pressure 1/2	Oil Pressure 1/4	Oil Pressure L
Fuel Consumption Meter Max	Fuel Consumption Meter 3./4	Fuel Consumption Meter 1/2
Fuel Consumption Meter 1/4	Fuel Consumption Meter Min	

Mirror Active Commands

Driver Mirror UP	Driver Mirror DOWN	Driver Mirror LEFT
Driver Mirror RIGHT	Passenger Mirror UP	Passenger Mirror DOWN
Passenger Mirror LEFT	Passenger Mirror RIGHT	

MirrorLeft Active Commands

Driver Mirror UP	Driver Mirror DOWN	Driver Mirror LEFT
Driver Mirror RIGHT	Driver Mirror Foot Light	Driver Mirror Heater

MirrorRight Active Commands

Passenger Mirror UP	Passenger Mirror DOWN	Passenger Mirror LEFT
Passenger Mirror RIGHT	Passenger Mirror Foot Light	Passenger Mirror Heater

PassengerDoor Active Commands

Power Window Up	Power Window Down	Door LOCK
Door UNLOCK	Double Lock Unset	Mirror UP
Mirror DOWN	Mirror LEFT	Mirror RIGHT
Mirror FOLD	Mirror RETURN	Foot Light
Mirror Heater	Inside Handle Illumination	Power Window Up

Power Window Down	Door LOCK	Door UNLOCK
Double Lock Unset	Mirror UP	Mirror DOWN
Mirror LEFT	Mirror RIGHT	Mirror FOLD
Mirror RETURN	Foot Light	Mirror Heater
Inside Handle Illumination		

PassengerSeat Active Commands

Slide Front	Slide Rear	Lifter Up
Lifter Down	Front Vertical Up	Front Vertical Down
Reclining Front	Reclining Rear	Cushion Front
Cushion Rear	Headrest Up	Headrest Down

PowerSourceControl Active Commands

Key Lock	Indicator For Llighting	Indicator Condition
Power Supplying for Steering Lock		

RadarCCSCAN Active Commands

Beam Axis Adjustment Mode

RearLeftDoor Active Commands

Power Window Up	Power Window Down	Door LOCK
Door UNLOCK	Double Lock Unset	Inside Handle Illumination
Memory Cancel Lamp	PSD Motor (Forward)	PSD Motor (Reverse)
PSD Clutch	PSD Buzzer	Release Actuator

RearLeftSeat Active Commands

Slide Front	Slide Rear	Headrest Up
Headrest Down	Refreshing ECU Start	Refreshing ECU Stop

RearRightDoor Active Commands

Power Window Up	Power Window Down	Door LOCK
Door UNLOCK	Double Lock Unset	Inside Handle Illumination
Memory Cancel Lamp	PSD Motor (Forward)	PSD Motor (Reverse)
PSD Clutch	PSD Buzzer	Release Actuator

RearRightSeat Active Commands

Slide Front	Slide Rear	Headrest Up
Headrest Down	Refreshing ECU Start	Refreshing ECU Stop

SlideRoof Active Commands

Slide Roof Close	Slide Roof Open
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SMART Active Commands

D-Sheet Outside Communicator	P-Sheet Outside Communicator	DR-Sheet Outside Communicator
PR-Sheet Outside Communicator	FR-Sheet Inside Communicator	RR-Sheet Inside Communicator
Inside Trunk / Inside Backdoor Communicator	Outside Trunk / Outside Backdoor Communicator	D-Sheet Select
P-Sheet Select	DR-Sheet Select	PR-Sheet Select

SequentialManual Active Commands

Target Clutch Control (Stroke Value)	Target Gear Position Control (Gear Position)	Target Shift Stroke Control (Stroke Value)
Target Select Stroke Control (Stroke Value)	Warning Buzzer Output	Gear Position Indicator Output
SMT Warning Indicator Lamp	Reduced Accumulator Pressure	Clutch Solenoid Control
Motor Relay Control		

SteeringLock Active Commands

Security Indicator	Meter Chime	Meter buzzer
Not P-Position Warning	Break Cable Warning	Unmatch Key Warning
Stuck Steering Warning	Meter Chime Continuously	

StopAndGo Active Commands

Eco Run Permission (Others)	Eco Run Permission Outside Temp)	Eco Run Permission (Battery)
Eco Run Permission (Engine ECU)	Buzzer	

TAndT Active Commands

Shoulder Belt DOWN	Shoulder Belt UP	Telescope LONG
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Telescope SHORT	Tilt DOWN	Tilt UP
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TDS Active Commands

Security Indicator	Security Horn	Security Horn2
Front Fog Light Relay	Headlight Relay	Taillight Relay
D-Sheet Transmitter	P-Sheet Transmitter	DR-Sheet Transmitter
PR-Sheet Transmitter	FR-Sheet Transmitter	RR-Sheet Transmitter
In Luggage Transmitter	Luggage Transmitter	Smart Indicator
Over Head Tuner	Buzzer Response Sound	Pager
Buzzer		

Wiper Active Commands

Wiper Motor (Hi)	Wiper Motor (Lo)
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