12. List of Diagnostic Trouble Code (DTC)

A: LIST

1. Keyless access system

DTC	Item	Content of diagnosis	Note
U0073	Control Module Communication Bus Off	Detected when CAN line abnormality is detected.	<Ref. to KPS(diag)-44, DTC U0073 CONTROL MODULE COMMUNICATION BUS OFF, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0100	Lost Communication With ECM/PCM "A"	Detected when CAN data from the engine control module (ECM) does not arrive.	<Ref. to KPS(diag)-44, DTC U0100 LOST COMMUNICATION WITH ECM/PCM "A", Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0101	Lost Communication With TCM	Detected when CAN data from TCM does not arrive.	<Ref. to KPS(diag)-44, DTC U0101 LOST COMMUNICATION WITH TCM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0122	Lost Communication With Vehicle Dynamics Control Module	Detected when CAN data from VDC does not arrive.	<Ref. to KPS(diag)-44, DTC U0122 LOST COMMUNICATION WITH VEHICLE DYNAMICS CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0140	Lost Communication With Body Control Module	Detected when CAN data from BIU does not arrive.	<Ref. to KPS(diag)-44, DTC U0140 LOST COMMUNICATION WITH BODY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0155	Lost Communication With Instrument Panel Cluster (IPC) Control Module	Detected when CAN data from meter does not arrive.	<Ref. to KPS(diag)-44, DTC U0155 LOST COMMUNICATION WITH INSTRUMENT PANEL CLUSTER (IPC) CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0401	Invalid Data Received From ECM/PCM "A"	Detected when there is malfunction in CAN data from the engine control module (ECM).	<Ref. to KPS(diag)-44, DTC U0401 INVALID DATA RECEIVED FROM ECM/PCM "A", Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U0422	Invalid Data Received From Body Control Module	Detected when CAN data from BIU is abnormal.	<Ref. to KPS(diag)-45, DTC U0422 INVALID DATA RECEIVED FROM BODY CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
U1120	Lost Communication With Autostart Stop Control Module	Detected when CAN data from hybrid system or from Auto Start Stop system does not arrive.	<Ref. to KPS(diag)-45, DTC U1120 LOST COMMUNICATION WITH AUTOSTART STOP CONTROL MODULE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B1242	Wireless Tuner Abnormal	When short circuit occurs in harness between keyless access CM and receiver.	<Ref. to KPS(diag)-46, DTC B1242 WIRELESS TUNER ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2271	IGN Fuse Blown or IGN Circuit Abnormal	• When malfunction is detected in IG1 and IG2 drive circuits in the keyless access CM. • When malfunction is detected in IG hold circuit in the keyless access CM.	<Ref. to KPS(diag)-48, DTC B2271 IGN FUSE BLOWN OR IGN CIRCUIT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2274	ACC Monitor	When malfunction is detected in ACC relay drive circuit in the keyless access CM or external circuit.	<Ref. to KPS(diag)-50, DTC B2274 ACC MONITOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

List of Diagnostic Trouble Code (DTC)

KEYLESS ACCESS WITH PUSH BUTTON START SYSTEM (DIAGNOSTICS)

DTC	Item	Content of diagnosis	Note
B2275	STSW Circuit Abnormal	• When malfunction is detected in engine start permission signal output circuit in the keyless access CM. • When malfunction is detected in external engine start permission signal circuit.	<Ref. to KPS(diag)-52, DTC B2275 STSW CIRCUIT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2276	ACCR Signal Abnormal	When input error occurs in accessory relay cut input signal of keyless access CM.	<Ref. to KPS(diag)-54, DTC B2276 ACCR SIGNAL ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2277	Submerging Circuit Abnormal	When the water-submersion detection circuit integrated into the keyless access CM detects the water submersion.	<Ref. to KPS(diag)-56, DTC B2277 SUBMERGING CIRCUIT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2282	Vehicle Speed Signal Abnormal	When the vehicle speed signal transmitted from the combination meter via solid line and the vehicle speed signal transmitted via CAN communication line do not match.)	<Ref. to KPS(diag)-57, DTC B2282 VEHICLE SPEED SIGNAL ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2283	Vehicle Speed Sensor Fault Detection	Either of the following malfunctions is detected. (Vehicle speed sensor failure is detected.) • Vehicle speed signal failure detection 1: Excessive deceleration detection • Vehicle speed signal failure detection 2: Engine speed interlock detection	<Ref. to KPS(diag)-59, DTC B2283 VEHICLE SPEED SENSOR FAULT DETECTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2284	Brake Signal (Cable-Information Does Not Match to Bean-Information)	When the brake signal transmitted via solid line and the brake signal transmitted via CAN communication line do not match.	<Ref. to KPS(diag)-61, DTC B2284 BRAKE SIGNAL (CABLE-INFORMATION DOES NOT MATCH TO BEAN-INFORMATION), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2285	Steering Lock Position Signal Abnormal	When the steering lock position signal transmitted from the steering lock CM via solid line and the steering lock position signal transmitted via LIN communication system do not match.	<Ref. to KPS(diag)-64, DTC B2285 STEERING LOCK POSITION SIGNAL ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2286	Driving Possible Signal Abnormal	When the engine speed signal transmitted from the ECM via solid line and the engine speed signal transmitted via CAN communication line do not match.	<Ref. to KPS(diag)-67, DTC B2286 DRIVING POSSIBLE SIGNAL ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

DTC	Item	Content of diagnosis	Note
B228A	Sub-Travel Possible Signal Abnormal	When the engine speed signal transmitted from the ECM via solid line and the engine speed signal transmitted via CAN communication line do not match.	<Ref. to KPS(diag)-70, DTC B228A SUB-TRAVEL POSSIBLE SIGNAL ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2779	Remote Control Engine Starter Communication Collation NG	When the keyless access CM does not respond to engine start even when the remote control engine starter is ON, or when there is a code mismatch.	<Ref. to KPS(diag)-73, DTC B2779 REMOTE CONTROL ENGINE STARTER COMMUNICATION COLLATION NG, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2781	Steering Lock ECU Open/Short	• When malfunction is detected in lock/unlock position detection sensor. • When the open or short circuit in the steering lock motor drive circuit is detected.	<Ref. to KPS(diag)-73, DTC B2781 STEERING LOCK ECU OPEN/SHORT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2782	Steering Lock Power Supply Circuit Abnormal (Smart ECU-Side Abnormal)	When the open or short circuit in the steering lock motor power supply circuit is detected.	<Ref. to KPS(diag)-74, DTC B2782 STEERING LOCK POWER SUPPLY CIRCUIT ABNORMAL (SMART ECU-SIDE ABNORMAL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2784	Antenna Coil Fault	When open or short circuit occurs in the antenna coil.	<Ref. to KPS(diag)-76, DTC B2784 ANTENNA COIL FAULT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2785	LIN Communication Error	When the keyless access CM detects the collation system LIN bus communication error three times in a row.	<Ref. to KPS(diag)-77, DTC B2785 LIN COMMUNICATION ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2786	No Response From Steering Lock ECU	When communication between keyless access CM and steering lock CM is interrupted for a set amount of time.	<Ref. to KPS(diag)-79, DTC B2786 NO RESPONSE FROM STEERING LOCK ECU, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2788	IGN1 Input Abnormal	When mismatch occurs in the IG1 input of the steering lock CM between LIN communication line input and solid line input.	<Ref. to KPS(diag)-81, DTC B2788 IGN1 INPUT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2789	ID Code Box No Response	• When communication between keyless access CM and ID code box is interrupted for a set amount of time. • Open or short circuit in the wiring harness between keyless access CM and ID code box	<Ref. to KPS(diag)-83, DTC B2789 ID CODE BOX NO RESPONSE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B278A	Abnormal Immobilizer Power Supply	When the power supply circuit of the push button ignition switch is shorted to ground.	<Ref. to KPS(diag)-85, DTC B278A ABNORMAL IMMOBILIZER POWER SUPPLY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

List of Diagnostic Trouble Code (DTC)

DTC	Item	Content of diagnosis	Note
B278D	ID Code Box Recognition Judgment Abnormal	• When ID code box ON input is detected while the ID code box setting is set to OFF. • When ID code box LIN signal is received while the ID code box setting is set to OFF.	<Ref. to KPS(diag)-87, DTC B278D ID CODE BOX RECOGNITION JUDGMENT ABNORMAL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B2790	ID Code Box Abnormal (EEPROM Abnormal)	An error has occurred inside the ID code box.	<Ref. to KPS(diag)-88, DTC B2790 ID CODE BOX ABNORMAL (EEPROM ABNORMAL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A1	Driver Side External Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and driver's side front door outer handle.	<Ref. to KPS(diag)-89, DTC B27A1 DRIVER SIDE EXTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A2	Passenger Side External Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and passenger's side front door outer handle.	<Ref. to KPS(diag)-91, DTC B27A2 PASSENGER SIDE EXTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A5	Front Internal Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and front interior antenna.	<Ref. to KPS(diag)-93, DTC B27A5 FRONT INTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A6	Rear Internal Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and rear interior antenna.	<Ref. to KPS(diag)-95, DTC B27A6 REAR INTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A7	Trunk/Rear Gate Internal Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and rear interior antenna.	<Ref. to KPS(diag)-97, DTC B27A7 TRUNK/REAR GATE INTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
B27A8	Trunk/Rear Gate External Antenna Output Stage Open	When open circuit occurs in the harness between keyless access CM and rear exterior antenna.	<Ref. to KPS(diag)-100, DTC B27A8 TRUNK/REAR GATE EXTERNAL ANTENNA OUTPUT STAGE OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

2. Immobilizer (ECM)

DTC	Item	Content of diagnosis	Note
B1571	Reference Code Incompatibility	Reference code mismatch occurs between keyless access CM (model without ID code box) or ID code box (model with ID code box) and ECM.	\<Ref. to KPS(diag)-102, DTC B1571 REFERENCE CODE INCOMPATIBILITY, Diagnostic Procedure with Diagnostic Trouble Code (DTC).\>
B1572	IMM Circuit Failure (Except Antenna Circuit)	Communication error occurs between keyless access CM (model without ID code box) or ID code box (model with ID code box) and ECM.	\<Ref. to KPS(diag)-103, DTC B1572 IMM CIRCUIT FAILURE (EXCEPT ANTENNA CIRCUIT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).\>
B1576	EGI Control Module EEPROM	ECM malfunctioning	\<Ref. to KPS(diag)-107, DTC B1576 EGI CONTROL MODULE EEPROM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).\>
B1577	IMM Control Module EEPROM	Malfunction occurs between keyless access CM (model without ID code box) or ID code box (model with ID code box) and ECM.	\<Ref. to KPS(diag)-107, DTC B1577 IMM CONTROL MODULE EEPROM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).\>