DI3OS-02

DIAGNOSTIC TROUBLE CODE CHART

1. ENGINE TROUBLE CODES

HINT:

Parameters[listed[]n[]he[chart[]may[]hot[]be[exactly[]]he[same[]as[]your[]eading[]due[]o[]he[]ype[]of[]nstrument or[]other[]actors.

Ifamalfunction@odelis@isplayed@uring@helDTC@heck@h@heck@node,@heck@heck@helpircuit@or@hat@odelisted in@helpale@elow.[For@etails@f@ach@ode,@urn@o@helpage@eferred@o@nder@hellSee@page"for@helpage@fetrred@o@nder@hellSee@page"for@helpageoctive@DTC[No."@n@helDTC@hart.

DTC[No. (See[Page)	Detection <u></u> [tem	Trouble[Area	CHK[ENG *1	Memory
P0100/31 (*)	Air[Flow[Circuit Malfunction	Open@r[short]n[air]low[meter@ircuit Air]low[meter Engine]ECU	0	0
P011 <u>0</u> /24 (★)	Intake[Air[]emp.[Circuit Malfunction	Open@r[short[]n[]ntake[air[]emp.[sensor@ircuit Intake[air[]emp.[sensor[]inside[air[]]ow[]neter) Engine[ECU	-	0
P011 <u>5</u> /22 (★)	Water Temp. Circuit Malfunction	Open@r[short[]n[]vater[]emp.[sensor[sircuit Mater[]emp.[sensor Engine[ECU	0	0
P011 6 /22 (DI-29)	Water Temp. Circuit Range/Performance Problem	Water emp. sensor Cooling System	0	0
P0120/41 (*)	Throttle[Position Sensor[©ircuit Malfunction	Open@r[short[n[hrottle[position[sensor@ircuit Infottle[position[sensor Engine[ECU	0	0
P0121/41 (*)	Throttle Position Sensor Circuit Range/Performance Problem	Throttle position sensor Engine ECU	0	0
P0125/91 *4 (DI-30)	Insufficient Coolant Temp. for Closed Loop Fuel Control	Air induction system Fuel pressure Injector injection Gas leakage on exhaust system Open or short in heated oxygen sensor (bank 1 sensor 1) circuit Oxygen sensor (bank 1 sensor 1)	0	0
P0130/21 *2 (*)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	Oxygen sensor Fuel trim malfunction	_	0
P0133/21 *3 (DI-36)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	Open or short in oxygen sensor circuit Oxygen sensor Air induction system Fuel pressure Injector Engine ECU	0	0
P0135/21 *2 (DI-40)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	Open or short in heater circuit of oxygen sensor Oxygen sensor heater Engine ECU	-	0
P0136/27 *2 (*)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	Oxygen sensor	_	0

P0153/28[†3 (DI-36)	Oxygen[\$ensor[Circuit[\$low[Response[[Bank[2[\$ensor 1)	Openor[short[noxygensensor@ircuit Oxygensensor Air[nductionsystem Fueloressure Injector Engine[ECU	0	0
P0141/21[*2 (DI-40)	Oxygen[\$ensor[Heater Circuit[]Malfunction (Bank 1[\$ensor[2)	Same@sDTC[No.[P0135/21	-	0
P0150/28 <u>1</u> *2 (★)	Oxygen[Sensor[Circuit Malfunction (Bank[2][Sensor 1)	•Same@s:DTC[No.[P0130/21	-	0
P0155/28[*2 (DI-40)	Oxygen[Sensor[Heater[Circuit Malfunction (Bank[2][Sensor 1)	•Same@as@TC[No.[P0135/21	-	0
P0156/29[*2 (**)	Oxygen[\$ensor[Circuit[Malfunction (Bank[2[\$ensor[2])	Same[as[DTC[No.[P0136/27]])	-	0
P0161/28[*2 (DI-40)	Oxygen[Sensor[Heater[Circuit Malfunction (Bank[2[Sensor[2)	•Same@as@TC[No.@P0135/21	-	0
P0171/25[*]2 (DI-42)	Fuel[Trim System[]oo[]_ean (Air_Fuel[]Ratio[]_ean Malfunction,[]Bank 1)	Air intake hose loose) Fuel ine pressure Injector blockage Oxygen sensor alfunction Air low neter Water emp. sensor	-	0
P0172/26[* 3 (DI-42)	System@oo[Rich[[Air–Fuel[Ratio Rich[Malfunction,[Bank 1)	Injector eak, blockage Air low meter Engine coolant emp. sensor Ignition system Fuel pressure Gas eakage nexhaust system Open rehort nexygen sensor bank 1 sensor 1) circuit Open ensor bank 1 sensor 1)	0	0
P0174/25[*2 (DI-42)	Fuel[]rim System[]oo[Rich (Air-Fuel[]Ratio[]_ean Malfunction,[]Bank[]2)	Air intake [hose loose) Fuel [ine pressure] Injector blockage Oxygen ensor malfunction Air low neter Water emp. sensor	-	0
P0175/26 *3 (DI-42)	System too Rich (Air-Fuel Ratio Rich Malfunction, Bank 2)	 Injector leak, blockage Air flow meter Engine coolant temp. sensor Ignition system Fuel pressure Gas leakage on exhaust system Open or short in oxygen sensor (bank 2 sensor 1) circuit Oxygen sensor (bank 2 sensor 1) 	0	0

P0300/93[*]3 (DI-48)	Random/Multiple@ylinderMisfire Detected			
P0301/93[*3 (DI-48)	Cylinder 1[Misfire[Detected			
P0302/93[*3 (DI-48)	Cylinder[2]Misfire[Detected	Open or short engine wire Connector connection		
P0303/93[*]3 (DI-48)	Cylinder[3[Misfire[Detected			
P0304/93[*]3 (DI-48)	Cylinder[4[Misfire[Detected	•Fuelpressure •Vacuumişensor	0	0
P0305/93[*3 (DI-48)	Cylinder[\$[Misfire[Detected	Water temp. sensor Compression pressure		
P0306/93 *3 (DI-48)	Cylinder 6 Misfire Detected	Valve clearance Valve timing Engine ECU		
P0307/93 *3 (DI-48)	Cylinder 7 Misfire Detected	- Englis 200		
P0308/93 *3 (DI-48)	Cylinder 8 Misfire Detected			
P0325/52 (*)	Knock Sensor 1 Circuit Malfunction (Bank 1)	Open or short in knock sensor 1 circuit Knock sensor 1 (looseness) Engine ECU	0	0
P0330/55 (★)	Knock Sensor 2 Circuit Malfunction (Bank 2)	Open or short in knock sensor 2 circuit Knock sensor 2 (looseness) Engine ECU	0	0
P0335/12, 13 (*)	Crankshaft Position Sensor Circuit Malfunction	Open or short in crankshaft position sensor circuit Crankshaft position sensor Starter Engine ECU	0	0
P0340/12 (*)	Camshaft Position Sensor Circuit Malfunction	Open or short in camshaft position sensor circuit Camshaft position sensor Starter Engine ECU	0	0
P0420/94 *3 (DI-54)	Catalyst System Efficiency Below Threshold (Bank 1)	Gas leakage on exhaust system Oxygen sensor Three-way catalytic converter	0	0
P0430/94 *3 (DI-54)	Catalyst System Efficiency Below Threshold (Bank 2)	• Same as DTC No. P0420/94	0	0
P0443/94 *3 (DI-57)	Evaporative Emission Control System Purge Control Vent Con- trol Malfunction	Open or short in VSV circuit for EVAP VSV for EVAP Engine ECU	0	0
P0500/42 (*)	Vehicle Speed Sensor Malfunction	Open or short in No.1 vehicle speed sensor circuit No.1 vehicle speed sensor Combination meter Engine ECU	-	0
P0505/33 *3 (DI-60)	Idle Control System Malfunction	Air induction system Electric throttle control system	0	0
P1120/19 (★)	Accelerator Pedal Position Sensor Circuit Malfunction	Open or short in accelerator pedal position sensor circuit Accelerator pedal position sensor Engine ECU	0	0

P1121/19 (★)	Accelerator Pedal Position Sensor Range/Performance Problem	Accelerator pedal position sensor Engine ECU	0	0
P1125/89 *5 (★)	Throttle Control Motor Circuit Malfunction	Open or short in throttle control motor circuit Throttle control motor Engine ECU	0	0
P1126/89 *5 (*)	Magnetic Clutch Circuit Malfunction	Open or short in magnetic clutch circuit Magnetic clutch Engine ECU	0	0
P1127/89 *5 (*)	ETCS Actuator Power Source Circuit Malfunction	Open in ETCS power source circuit Engine ECU	0	0
P1128/89 *5 (★)	Throttle Control Motor Lock Malfunction	Throttle control motor Throttle body Engine ECU	0	0
P1129/89 *5 (*)	Electric Throttle Control System Malfunction	Electric throttle control system Engine ECU	0	0
P1200/78 (★)	Fuel Pump Relay/ECU Circuit Malfunction (Except Europe)	Open or short in fuel pump relay Fuel pump relay Engine ECU	-	0
P1300/14 (★)	Igniter Circuit Malfunction (No.1)	Open or short in IGF1 or IGT1 circuit from No.1 ignition coil with igniter to engine ECU No.1 ignition coil with igniter Engine ECU	0	0
P1305/15 (★)	Igniter Circuit Malfunction (No.2)	Open or short in IGF2 or IGT2 circuit from No.2 ignition coil with igniter to engine ECU No.2 ignition coil with igniter Engine ECU	0	0
P1310/14 (*)	Igniter Circuit Malfunction (No.3)	Open or short in IGF2 or IGT3 circuit from No.3 ignition coil with igniter to engine ECU No.3 ignition coil with igniter Engine ECU	0	0
P1315/14 (*)	Igniter Circuit Malfunction (No.4)	Open or short in IGF1 or IGT4 circuit from No.4 ignition coil with igniter to engine ECU No.4 ignition coil with igniter Engine ECU	0	0
P1320/14 (*)	Igniter Circuit Malfunction (No.5)	Open or short in IGF2 or IGT5 circuit from No.5 ignition coil with igniter to engine ECU No.5 ignition coil with igniter Engine ECU	0	0
P1325/14 (*)	Igniter Circuit Malfunction (No.6)	Open or short in IGF1 or IGT6 circuit from No.6 ignition coil with igniter to engine ECU No.6 ignition coil with igniter Engine ECU	0	0
P1330/14 (*)	Igniter Circuit Malfunction (No.7)	Open or short in IGF1 or IGT7 circuit from No.7 ignition coil with igniter to engine ECU No.7 ignition coil with igniter Engine ECU	0	0
P1335/13 (*)	Crankshaft Position Sensor Circuit Malfunction (during engine running)	Open or short in crankshaft position sensor circuit Crankshaft position sensor Starter Engine ECU	-	0

P1340/14 (*)	Igniter@ircuit@Malfunction (No.8)	Open@r[short[]n[]GF2@r[]GT8@ircuit[]rom[]No.8[]gnition@oil with[]gniter[]o[engine[ECU No.8[]gnition@oil[]with[]gniter Engine[ECU	0	0
P1520/95[*3 (DI-61)	Stop[Light[\$witch[\$ignal[]Malfunction	Short[in[stop[iight[switch[signal[circuit]]]]] Stop[iight[switch]] Engine[ECU	0	0
P1565/32 (*)	Short[]n[Cruise[Control[Switch Circuit	Cruise Control	0	0
P1566/54	Input[Signal[Circuit	•ECM	0	0
P1600/96[*]3 (DI-64)	Engine[ECU[BATT[Malfunction	Open[]n[back[]up[bower[source[bircuit] Engine[ECU]	-	0
P1633/89 <u>†</u> 5 (★)	ECU[Malfunction[ETCS[Circuit)	•Engine[ECU	0	0
P1780/97 (DI-66)	Neutral[\$tart[\$witch[]Malfunction	Short[intheutral[start[switch]&ircuit Indicate: Indicat	0	0

^{*1: [}Check engine warning light CHK ENG) light up

★:[See[Pub.[No.[RM630E

2. ETCS[TROUBLE[CODES[When[not[use[hand-held[tester]

DTC[No. (See[Page)	Detection <u></u> [tem	Trouble⊡Area	CHK[ENG *1	Memory
21 (★)	Throttle[Control[Motor Circuit[Malfunction	• Same[as[DTC[No.[P1125/89	0	0
22 (★)	Magnetic[Clutch[Circuit Malfunction	• Same[as[DTC[No.[P112]6/89	0	0
23 (★)	ETCS[Actuator[Power[Source Circuit[Malfunction	• Same[as[DTC[No.[P112]7/89	0	0
31 (★)	Throttle[Control[Motor Lock[Malfunction	Same as DTC No. P1128/89	0	0
32 (★)	Electric Throttle Control System Malfunction	Same as DTC No. P1129/89	0	0
33 (★)	ECU Malfunction (ETCS)	• Same as DTC No. P1633/89	0	0

^{*1:} \bigcirc ... Check engine warning light (CHK ENG) light up

^{-[]..[}Check[engine[warning[light[]CHK[ENG)]does[not[light[]up

 $[\]verb|^*2:[Only]| for [Europe, [Turkey, [Russia, [Saudi]] Arabia|| | Furnamental form of the content of the conte$

^{*3:} Only for Europe

^{*4:} Only for Europe, Turkey

^{*5:} If the DTC No.89 is indicated on the instrument on and the DTC for ETCS, from 2nd STRT indicator (only flor A/T)/ETCS indicator only flor M/T) to get detail of the DTC No.89. If the band-held tester, the detail DTC for ETCS are displayed by the hand-held tester

^{★:} See Pub. No. RM630E