FUEL PUMP CONTROL CIRCUIT

CIRCUIT DESCRIPTION

Refer[lo[DTC[P0230[on[page[05-122.

WIRING DIAGRAM

Refer[]o[DTC[P0230[on[page[05-122.

INSPECTION PROCEDURE

1 | PERFORM[ACTIVE[TEST[(OPERATE[F/PMP[RELAY])

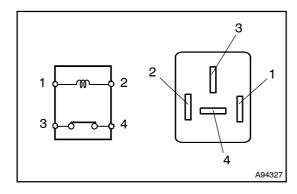
- (a) ☐ Connect ☐ the ☐ ntelligent ☐ Tester ☐ ☐ The ☐ DLC3.
- (b) Turn the ignition witch Nand bush the intelligent Tester I main witch N.
- (c) Enter the following menus: Enter Diagnosis DBD·MOBD Power rain Engine and ECT Active Test Control he fuel pump speed.
- (d) Check the relay operation while operating the intelligent ster l.

OK: Operating hoise can be heard from the relay.

OK Go[to[\$tep[5

NG

2 | INSPECT[RELAY[(F/PMP)



- (a) Remove the F/PMP relay from the engine room Relay Block R/B).
- (b) Measure the resistance.

Standard:

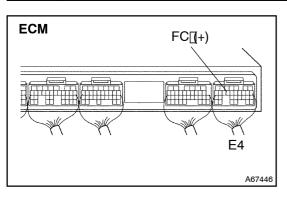
Tester@onnection	Specified@ondition
3 -[4	Below[] [Ω
3 -[4	10[kք][þr[ḫigher (apply[խattery[խoltage[]o[]erminals[] [and[]2)

NG□

REPLACE[RELAY[(F/PMP)

OK

3 INSPECT[ECM[[FC[YOLTAGE]



- (a) Turn the ignition switch ON.
- (b) Measure the woltage of ECM connector.

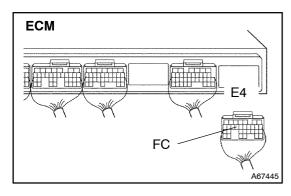
Standard:

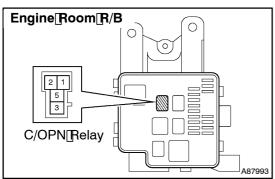
Tester Connection	Specified condition
E4-14 (FC) - Body ground	9 to 14 V

OK∏>

REPLACE ECM (See page 10-21)

4 CHECK[WIRE[HARNESS[ECM - [C/OPN[RELAY, [C/OPN[RELAY - [IGNITION SWITCH]

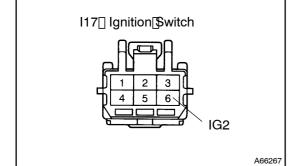




- (a) Check[the[wire[harness[between[the]ECM[and[the]C/OPN relay.
 - (1) Disconnect the E4 ECM connector.
 - (2) Remove the COPN relay from the engine room R/B.
 - (3) Measure the resistance of the wire harness side connectors.

Standard:

Tester[Connection	Specified@ondition
E4-14[[FC] -[R/B[C/OPN[]elay[]erminal[2	Below[] [Ω
E4-14[[FC)[]pr[]2[]pf[]C/OPN[]elay -[Body[]ground	10[k͡Ω[ɸr[ḫigher



- (b) Check[the[wire[harness[between[the[C/OPN[relay]]]] and the ignition[switch.
 - (1) Check he G2 fuse.
 - Remove[]the[]G2[]fuse[]from[]the[]engine[]foom R/B.
 - Measure[]he[]esistance[]of[]he[]G2[]use.

Standard: Below 1 Ω

- •□ Reinstall[the[]G2[fuse.
- (2) Remove the COPN relay from the engine room R/B.
- (3) Disconnect the 17 ignition witch connector.
- (4) Measure the resistance of the wire harness side connectors.

Standard:

Tester[Connection	Specified Condition
R/B[C/OPN[]elay[]erminal[] -[]17-6	Below 1 Ω
R/B C/OPN relay terminal 1 or I17-6 - Body ground	10 k Ω or higher

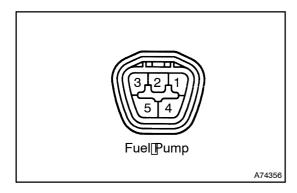
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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE[ECM[[See page 10-21]

INSPECT[FUEL[PUMP 5∏



- (a) Check the fuel pump resistance.
 - (1) Measure[the[resistance[between[terminals]4]and[5]. Standard: 0.2 to 3.0 Ω at 20° C (68° F)
- (b) Check the fuel pump operation
 - (1) Apply battery voltage to both the terminals. Check that the pump operates.

NOTICE:

- These tests must be done quickly (within 10 seconds) • 🗌 to prevent the coil from burning out.
- Keep[fuel[pump[as[far[away[from[the[battery[as[possible.

CAUTION:

Always turn on and off the voltage on the battery side, not the[fuel[pump[\$ide.

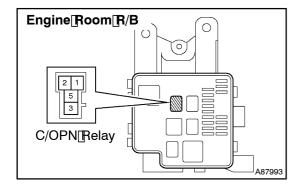


NG | REPLACE FUEL PUMP See page 11-21)

OK

6∏

CHECK[WIRE[HARNESS[[C/OPN[RELAY -[FUEL[PUMP -[BODY[GROUND]



- (a) Check[the]wire[harness[between[the]C/OPN[felay]and[the] fuel pump.
 - (1) Remove the C/OPN relay from the engine room R/B.
 - (2) Disconnect the F19 fuel pump connector.
 - (3) Measure the resistance of the wire harness side connectors.

Standard:

Tester@onnection	Specified Condition
R/B[C/OPN[]elay[]erminal[]3 -[F19-4[]Fuel[]pump)	Below[] [Ω
R/B[C/OPN[]elay[]erminal[][]or[F19-4[]Fuel[]pump) -[Body[]ground	10[k͡͡͡ß[ð̞r[ħigher

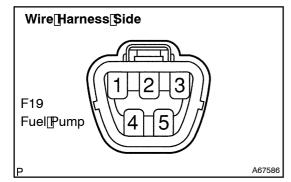
(4) Measure the resistance of the wire harness side connector.

Standard:

	Specified Condition
F19–5 – Body ground	Below 1 Ω



REPLACE[ECM[(See page 10-21)



OK

REPAIR OR REPLACE HARNESS AND CONNECTOR