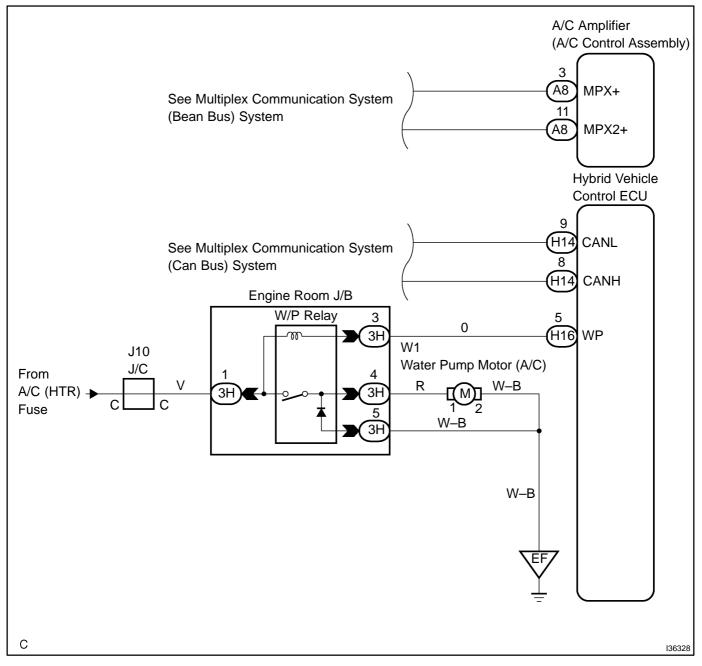
HEATER WATER PUMP CIRCUIT

CIRCUIT DESCRIPTION

The heater water pump assy sends engine coolant to the heater core assy while the engine is stopped to prevent heater effectiveness from becoming low.

Directed by the air conditioner amplifier assy, Hybrid control ECU operates the water pump relay and drives the heater water pump assy.

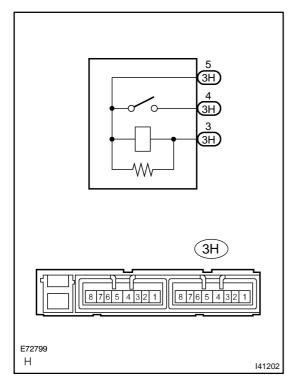
WIRING DIAGRAM



INSPECTION PROCEDURE

1

INSPECT INTEGRATION RELAY



(a) Remove the integration relay from the engine room J/B. **NOTICE:**

As the integration relay is connected to the relays and fuses in the other systems, remove it with the power switch off. (A DTC may be output if the power switch is on.)

(b) Measure the voltage according to the value(s) in the table below.

Standard:

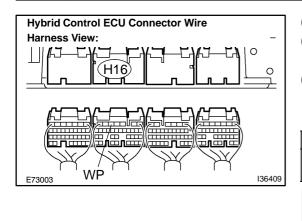
Terminal No.	Condition	Specified condition
3H-4 - 3H-5	Always	Below 1 Ω
3H-4 - 3H-5	When battery voltage ap- plied to terminals 3h–5 and 3H–3	Below 1 Ω

NG REPLACE INTEGRATION RELAY

OK

2

CHECK HARNESS AND CONNECTOR (SEE PAGE 01–47)



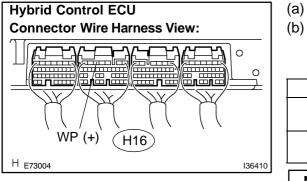
- (a) Install the integration relay.
- (b) Disconnect the connectors from the hybrid vehicle control ECU.
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition		Specified condition	
H16–5 (WP) – Body ground	Power switch ON		10 to 14 V	
	OR TOR	REPLACE	HARNESS	OR

ΟΚ

3 INSPECT HYBRID VEHICLE CONTROL ECU



Heater Water Pump Assy Connector

211

- a) Connect the hybrid vehicle control ECU connectors.
- (b) Measure voltage according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition			
H16–5 (WP) – Body ground	Not operate the heater water pump 10 to 14 V				
H16–5 (WP) – Body ground	Operate the heater water pump	Below 1 V			
NG > REPLACE HYBRID VEHICLE CONTROL ECU					

OK

4 INSPECT HEATER WATER PUMP ASSY (a) Remove the heater water pump. (b) Connect positive (+) lead to terminal 1 of the heater water pump connector and negative (-) lead to terminal 2.

NG

Standard: Heater water pump operates smoothly. NOTICE:

Complete operation within 10 seconds if there is no water in the heater water pump.

REPLACE HEATER WATER PUMP ASSY

ОК

С

Front View:

REPAIR OR REPLACE HARNESS OR CONNECTOR

W1)

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