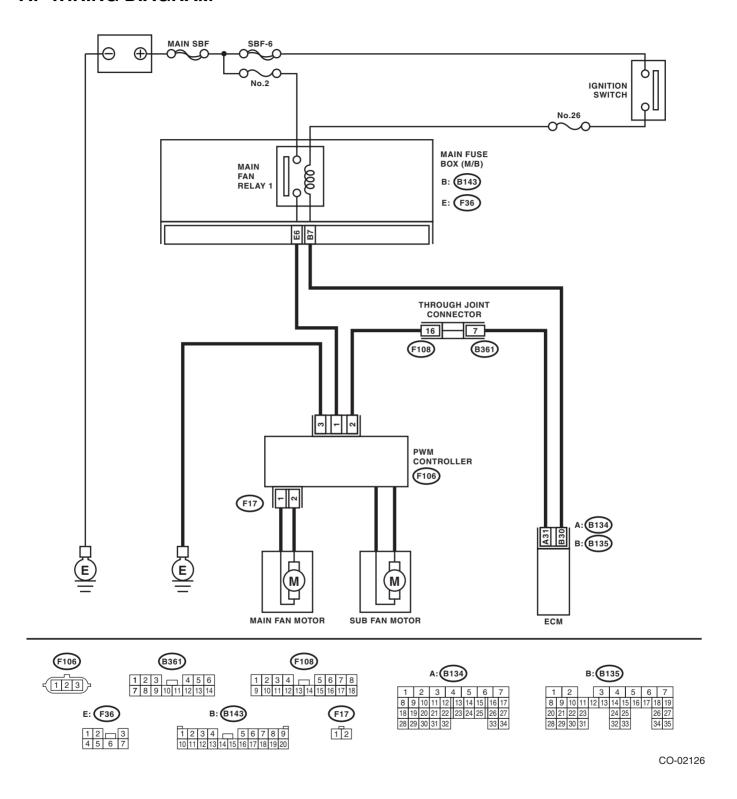
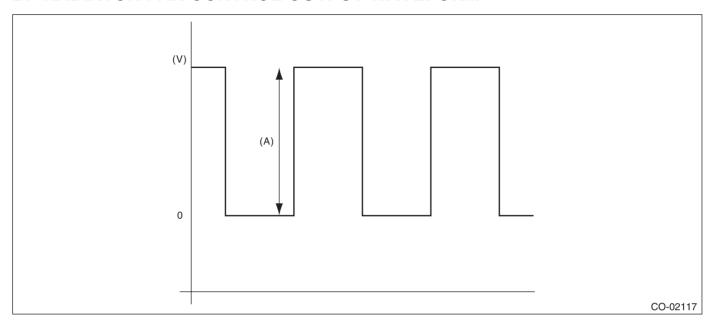
2. Radiator Fan System

A: WIRING DIAGRAM



B: RADIATOR FAN CONTROL OUTPUT WAVEFORM



(A) 5 V

C: INSPECTION

DETECTING CONDITION:

- Engine coolant temperature is more than 93°C (199°F).
- A/C switch is turned OFF.
- Vehicle speed is below 19 km/h (12 MPH).

TROUBLE SYMPTOMS:

Radiator main and sub fans do not rotate under the above conditions.

	Step	Check	Yes	No
1	CHECK MAIN FAN RELAY 1. 1) Turn the ignition switch to OFF. 2) Remove the main fan relay 1 from A/C relay holder. 3) Measure the resistance of terminal in main fan relay 1 switch.	Is the resistance more than 1 $\mbox{M}\Omega ?$	Go to step 2.	Replace the main fan relay 1.
2	CHECK MAIN FAN RELAY 1. 1) Connect the battery to terminal of main fan relay 1 coil. 2) Measure the resistance between terminals of main fan relay 1 switch.	Is the resistance less than 1 Ω ?	Go to step 3.	Replace the main fan relay 1.
3	CHECK POWER SUPPLY FOR ECM. 1) Turn the ignition switch to OFF. 2) Disconnect the connectors from ECM. 3) Turn the ignition switch to ON. 4) Measure the voltage between ECM terminal and chassis ground. Connector & terminal (B135) No. 30 (+) — Chassis ground (-):	Is the voltage more than 10 V?	Go to step 4.	Repair the power supply line.

	Step	Check	Yes	No
4	CHECK POWER SUPPLY FOR RADIATOR	Is the voltage more than 10 V?	Go to step 5.	Repair the power
	FAN CONTROL UNIT.			supply line.
	 Turn the ignition switch to OFF. 			
	Connect the connector to ECM.			
	Disconnect the connector from radiator fan			
	control unit.			
	Turn the ignition switch to ON.			
	Measure the voltage between radiator fan			
	control unit terminal and chassis ground.			
	Connector & terminal			
	(F106) No. 1 (+) — Chassis ground (–):			
5	CHECK HARNESS BETWEEN ECM AND RA-		Go to step 6.	Repair the open
	DIATOR FAN CONTROL UNIT.	Ω ?		circuit of harness
	 Turn the ignition switch to OFF. 			between ECM and
	Disconnect the connectors from ECM.			radiator fan con-
	Measure the resistance between radiator			trol unit.
	fan control unit and ECM connector.			
	Connector & terminal			
	(B134) No. 31 — (F106) No. 2:			
6	CHECK RADIATOR FAN CONTROL UNIT	Is the resistance less than 5	Go to step 7.	Repair the open
	AND GROUND CIRCUIT.	Ω ?		circuit of harness
	1) Connect the connector to ECM and radiator			between radiator
	fan control unit.			fan control unit
	Measure the resistance between radiator			connector and
	fan control unit connector and chassis ground.			chassis ground.
	Connector & terminal			
	(F106) No. 3 — Chassis ground:		_	
7	CHECK SUB FAN MOTOR.	Does the fan motor rotate?	Go to step 8.	Replace the fan
	Disconnect the connector from radiator fan			motor which does
	control unit.			not rotate.
	2) Connect the battery positive (+) terminal to			
	terminal No. 1 of the radiator fan control unit,			
	and the ground (–) terminal to terminal No. 3.		5	D 1 " -0::
8	CHECK OUTPUT SIGNAL FROM ECM.	Is waveform being output?	•	Replace the ECM.
	Turn the ignition switch to OFF.		tor fan control unit.	<ref. td="" to<=""></ref.>
	Connect the test mode connector. True the invitate a suitable to CN.		<ref. td="" to<=""><td>FU(H6DO)-33,</td></ref.>	FU(H6DO)-33,
	3) Turn the ignition switch to ON.		CO(H6DO)-24,	Engine Control
	4) Check the output waveform using oscillo-			Module (ECM).>
	scope. <ref. co(h6do)-8,="" fan<="" radiator="" td="" to=""><td></td><td>trol Unit.></td><td></td></ref.>		trol Unit.>	
	CONTROL OUTPUT WAVEFORM, Radiator			
	Fan System.>			
	Connector & terminal			
	(B134) No. 31 (+) — Chassis ground (–):			