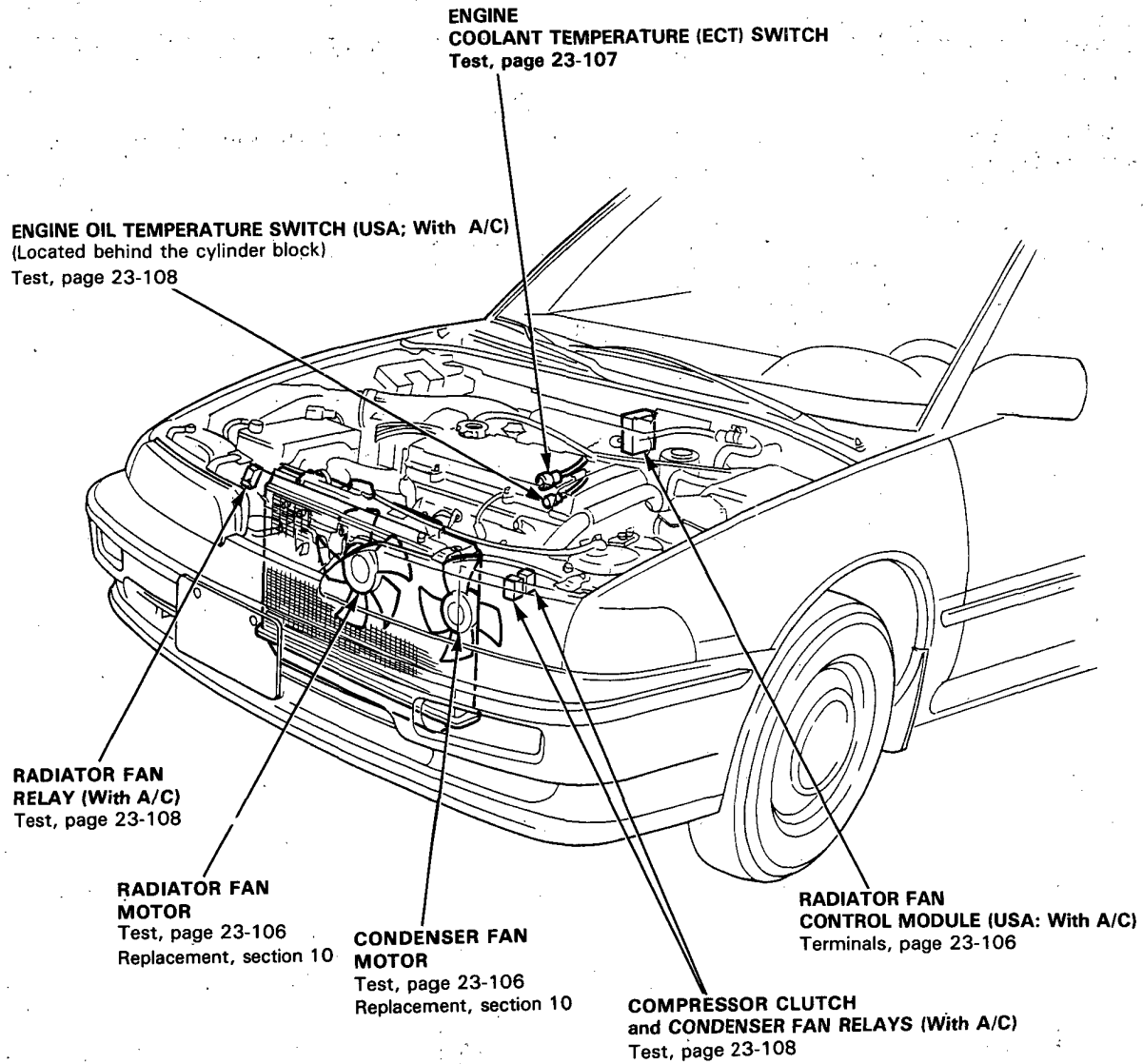


Radiator and Condenser Fan Controls

Component Location Index





Circuit Diagram (USA)

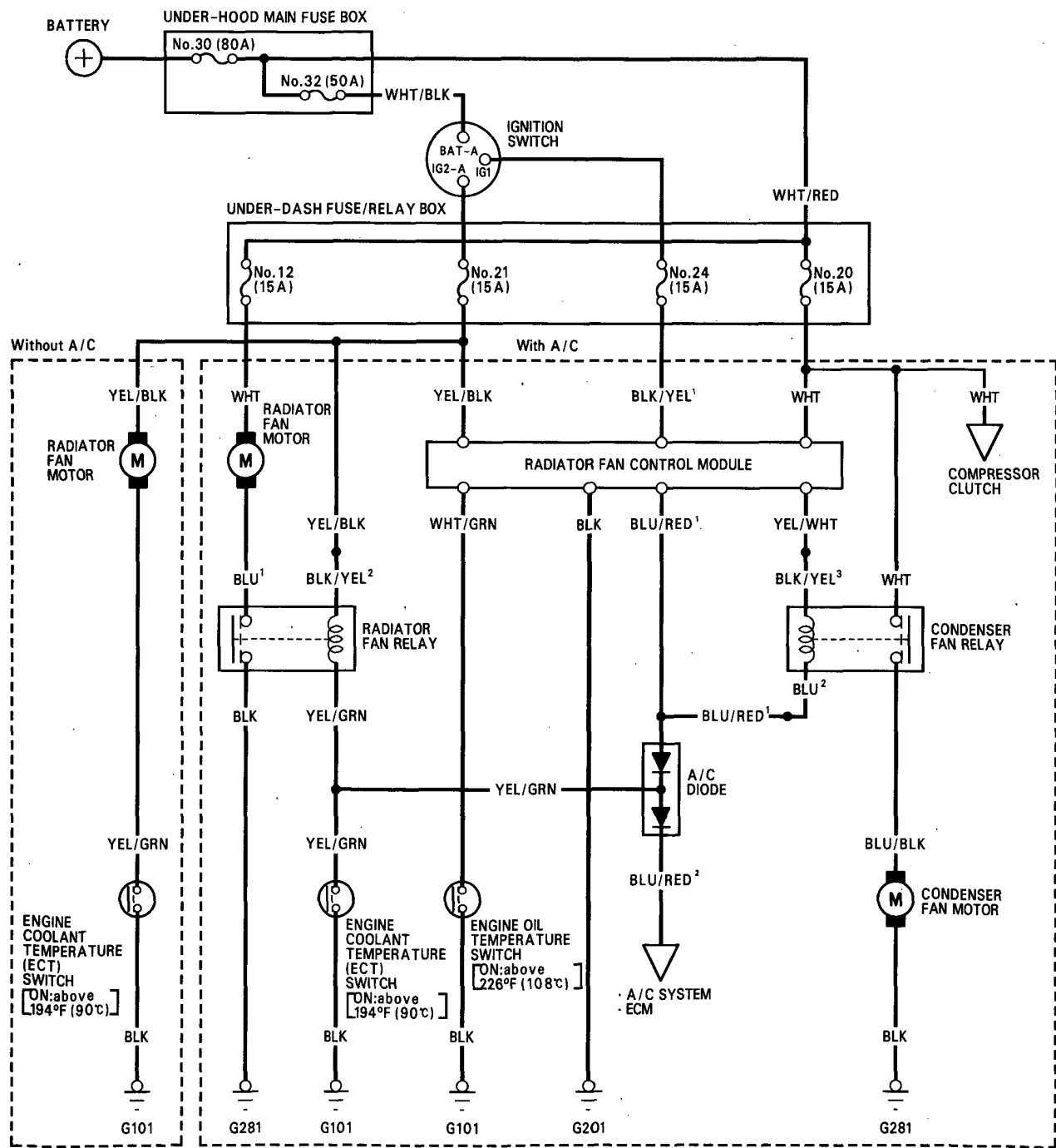
Description

Fan Control system

When the engine oil temperature is above approximately 226°F (103°C) after the engine is stopped, the condenser fan starts running to cool the engine for 15 minutes.

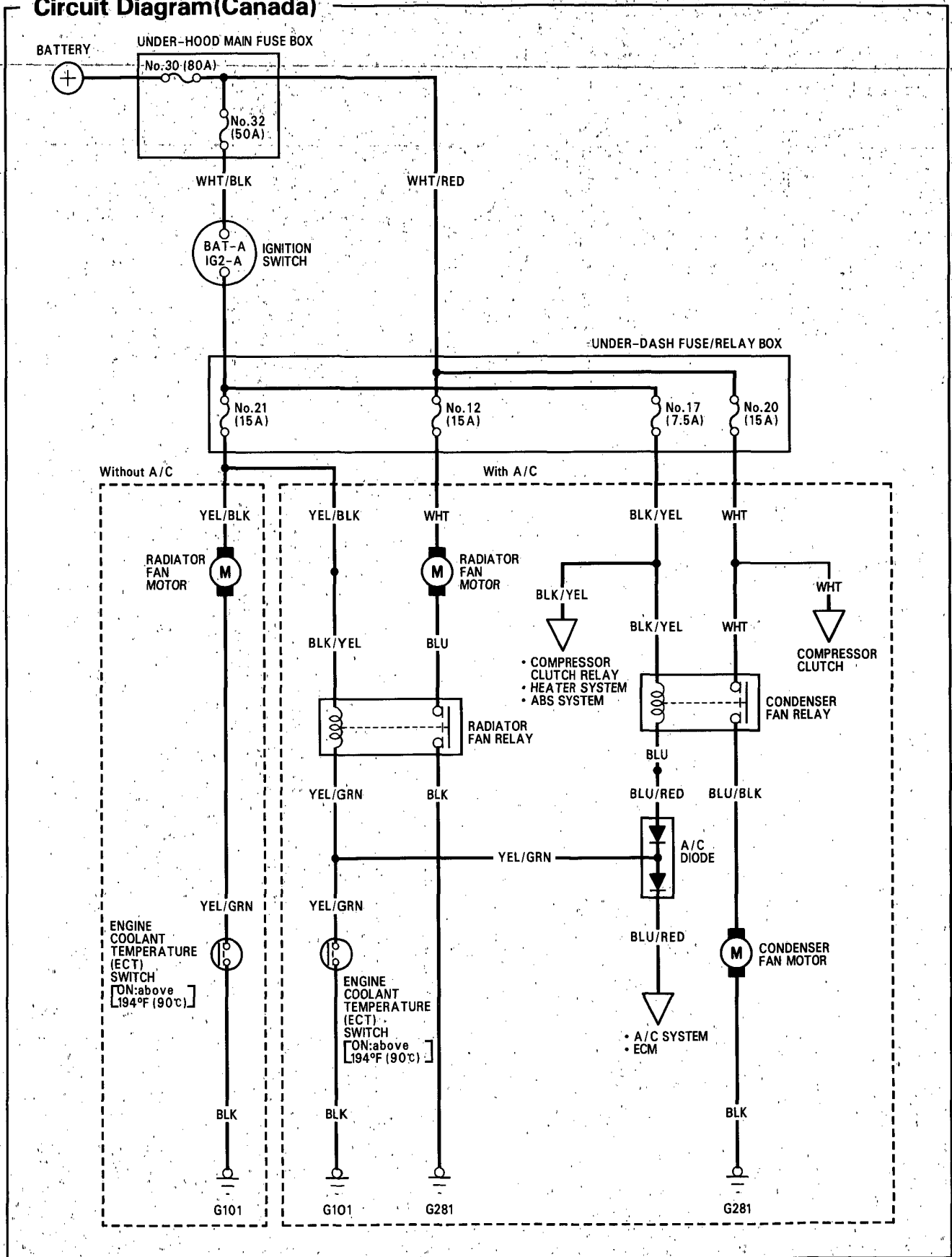
The oil temperature switch is located behind the cylinder block and the radiator fan control module is located at the right side of the heater unit.

NOTE: Different wires with the same color have been given a number suffix to distinguish them (for example, BLU/RED¹ and BLU/RED² are not the same).



Radiator and Condenser Fan Controls

Circuit Diagram(Canada)





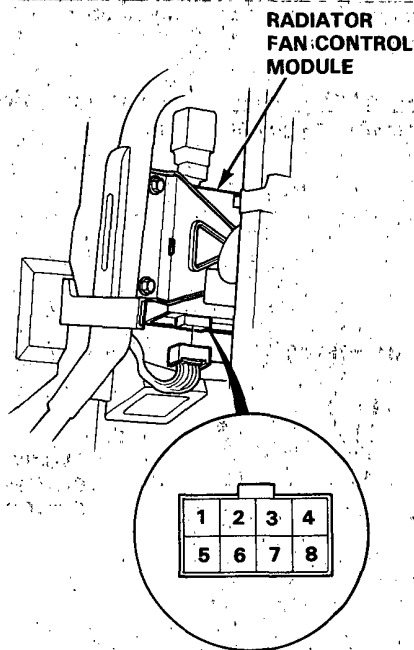
Troubleshooting (USA: With A/C)

NOTE: The numbers in the table show the troubleshooting sequence.

Symptom		Item to be inspected											
		Blown No.12 (15A) or No.20 (15A) fuse (In the under-dash fuse/relay box)	Radiator fan or condenser fan relay	Radiator fan or condenser fan motor	A/C diode	Blown No.21 (15A) fuse (In the under-dash fuse/relay box)	Engine coolant temperature (ECT) switch	Faulty radiator fan control module	Engine oil temperature switch	A/C system	Poor ground	Open circuit, loose or disconnected terminals	
Only one fan runs (with engine and A/C ON).		1	2	3	4		5				G281	BLU ¹ , BLU/BLK, YEL/BLK BLK/YEL ² YEL/WHT, BLK/YEL ³ or BLU/RED ²	
Fans do not rotate.	Under all conditions.					1	2	3				G101	YEL/BLK or YEL/GRN
	A/C ON									1			
Radiator fan control module fails to function properly.							2	1			G201	WHT, WHT/GRN, BLU ² or BLU/RED ¹	

Radiator and Condenser Fan Controls

Radiator Fan Control Module Terminals (USA: With A/C)

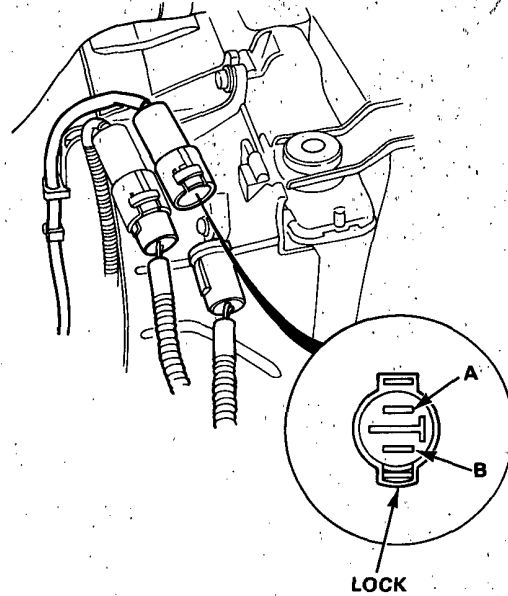


Terminal	Wire	Connects to
1	YEL/ WHT	Condenser fan relay ⊕
2	YEL/ BLK	Power supply (For condenser fan relay by way of timer unit with ignition switch ON)
3	—	(Not used)
4	BLK	Ground
5	WHT/ GRN	Engine oil temperature switch
6	WHT	Constant power (For condenser fan motor relay by way of radiator fan control module)
7	BLK/ YEL	IG1 (Timer reset signal)
8	BLU/ RED	Condenser fan relay ⊖

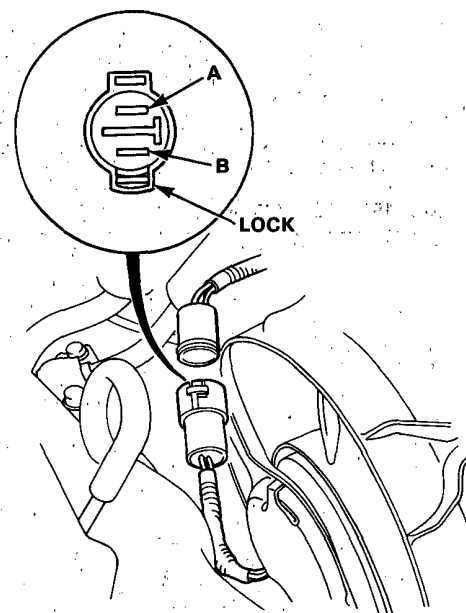
Fan Motor Test

1. Disconnect the 2-P connector from the fan motor.
2. Test motor operation by connecting battery power to the A terminal, and ground to the B terminal.
3. If the motor fails to run smoothly, replace it.

Radiator Fan Motor:



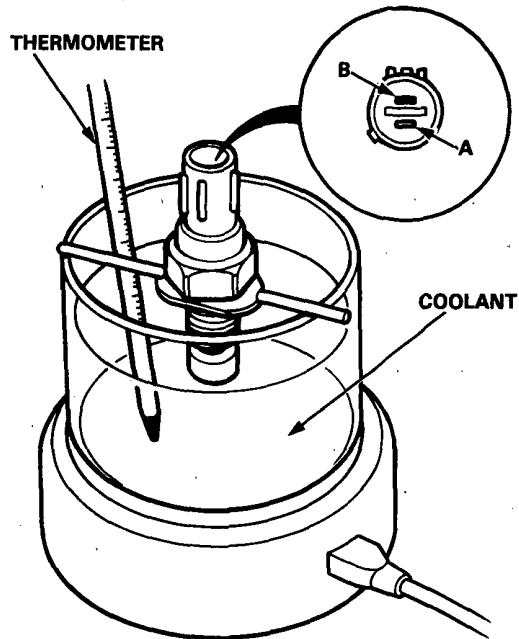
Condenser Fan Motor:





Engine Coolant Temperature (ECT) Switch Test

1. Remove the engine coolant temperature (ECT) switch from the rear of the engine cylinder block.
2. Suspend the ECT switch in a container of coolant as shown.

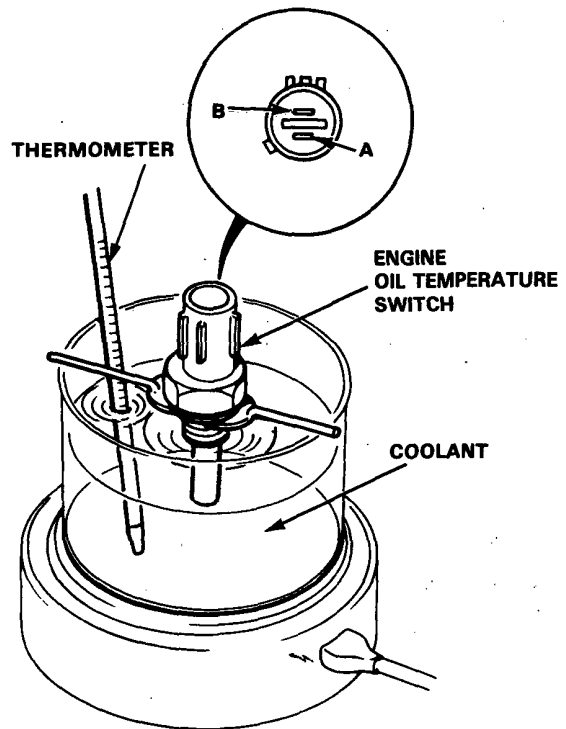


3. Heat the coolant and check coolant temperature with a thermometer (see table below).
4. Check for continuity between the A and B terminals according to the table.

		Terminal	
Temperature		A	B
Switch	Above 196-203°F (91-95°C)	○	○
	Below 181-189°F (83-87°C)		

Engine Oil Temperature Switch Test (USA: With A/C)

1. Remove the engine oil temperature switch from the cylinder head.
2. Suspend the engine oil temperature switch in a container of coolant as shown.



3. Heat the coolant and check coolant temperature with a thermometer (see table below).
4. Check for continuity between the A and B terminals according to the table.

		Terminal	
Temperature		A	B
Switch	Above 221-232°F (105-111°C)	○	○
	Below 208-228°F (98-109°C)		