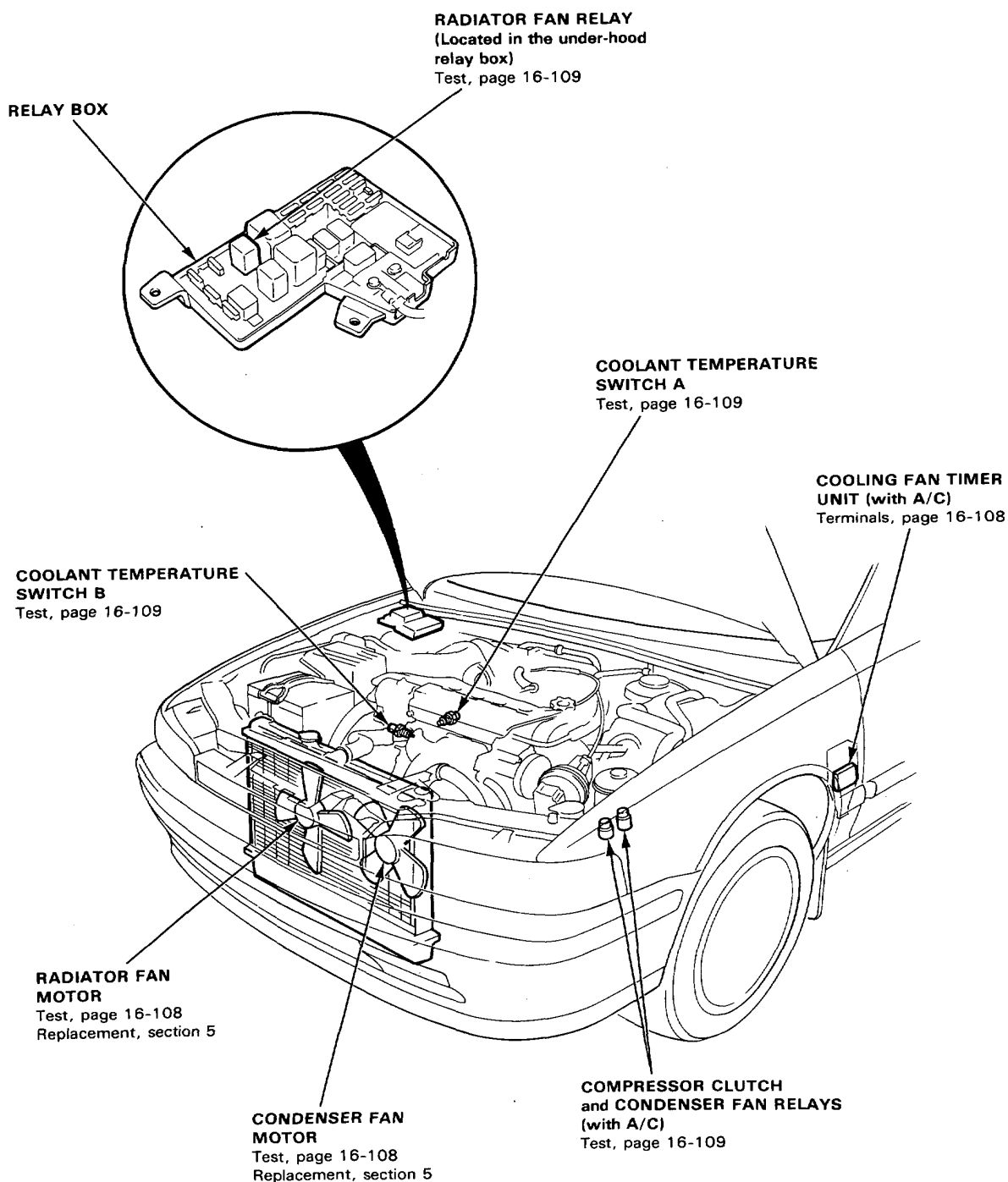


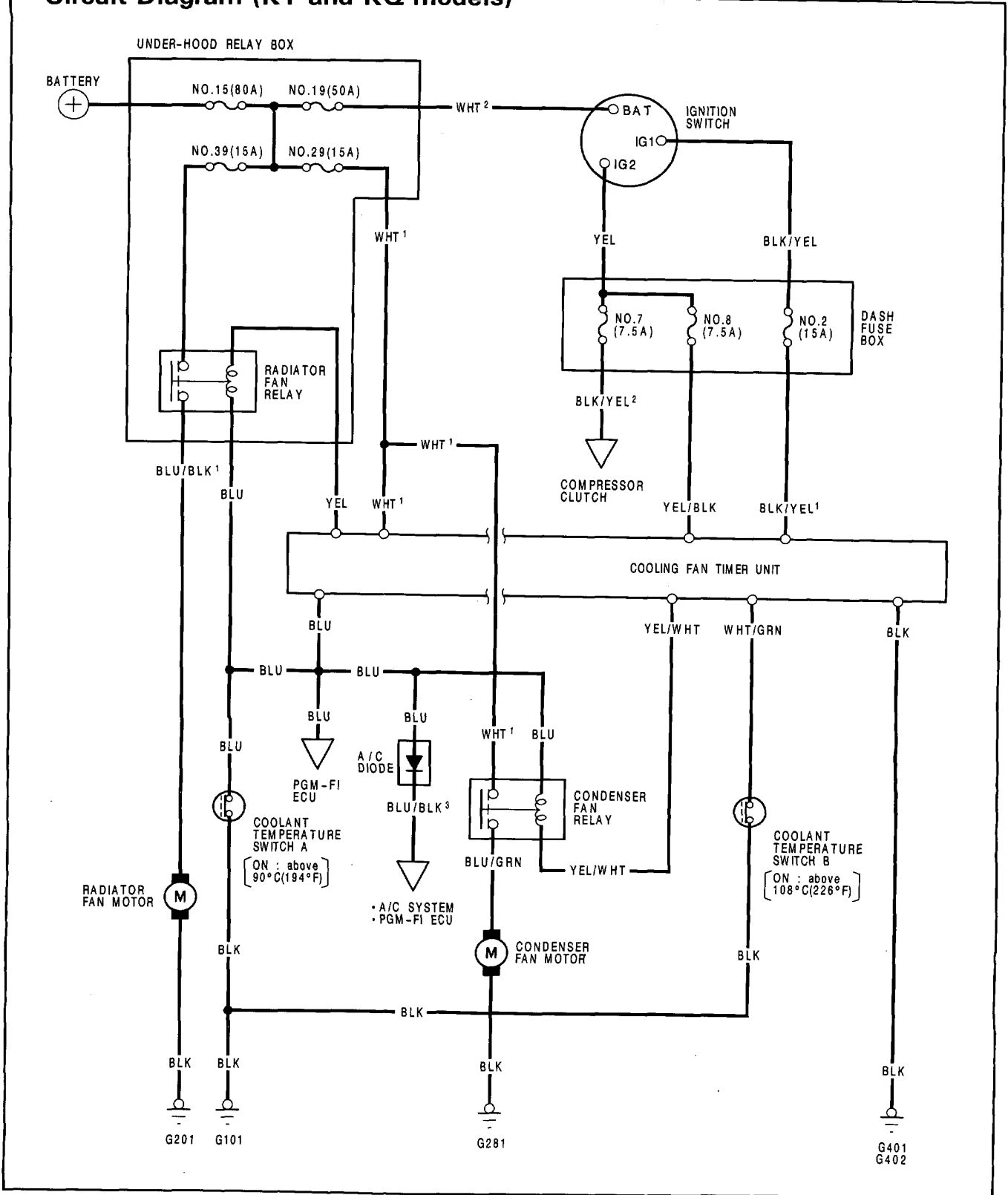
Cooling Fan Control

Component Location Index



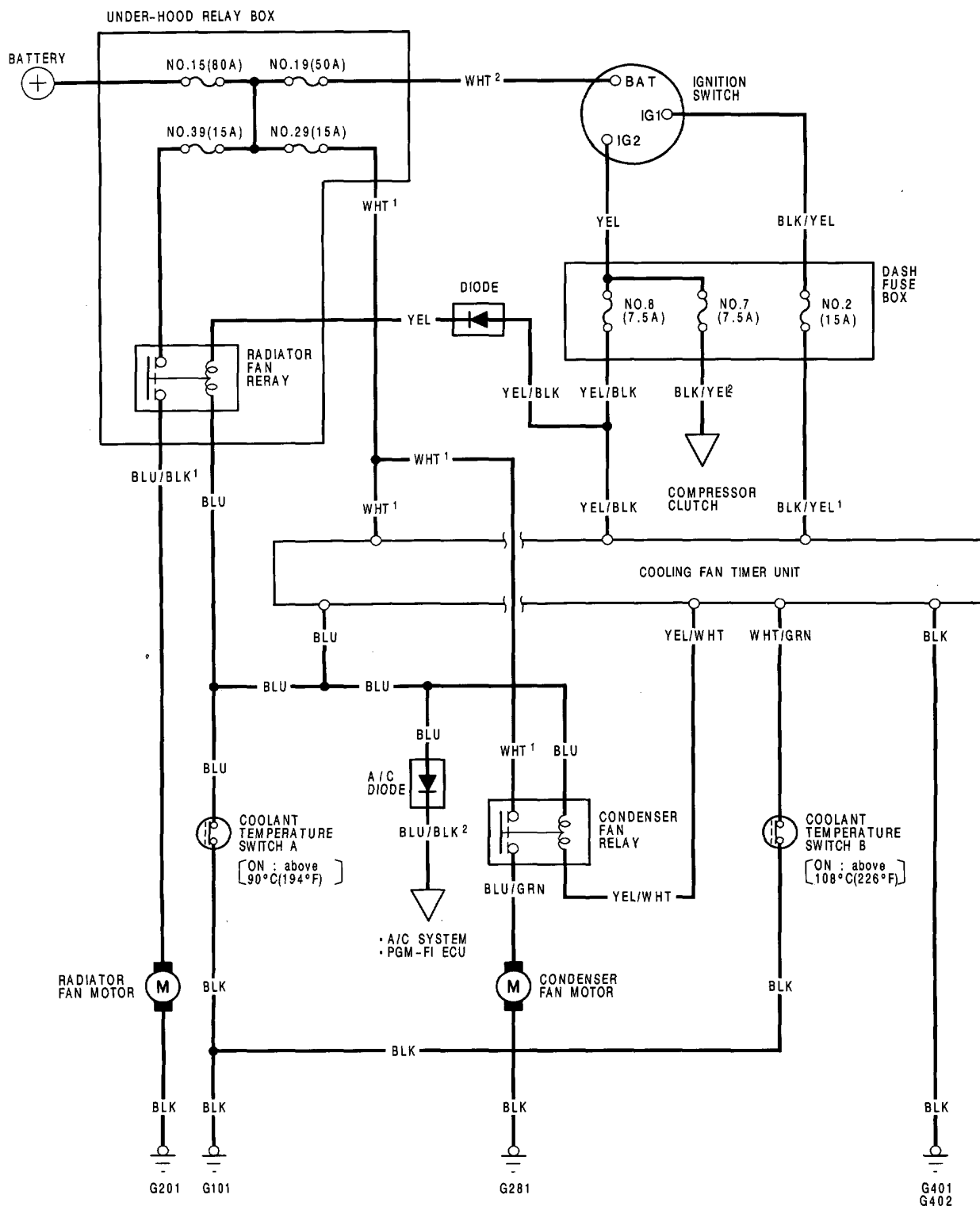
Cooling Fan Control

Circuit Diagram (KY and KQ models)





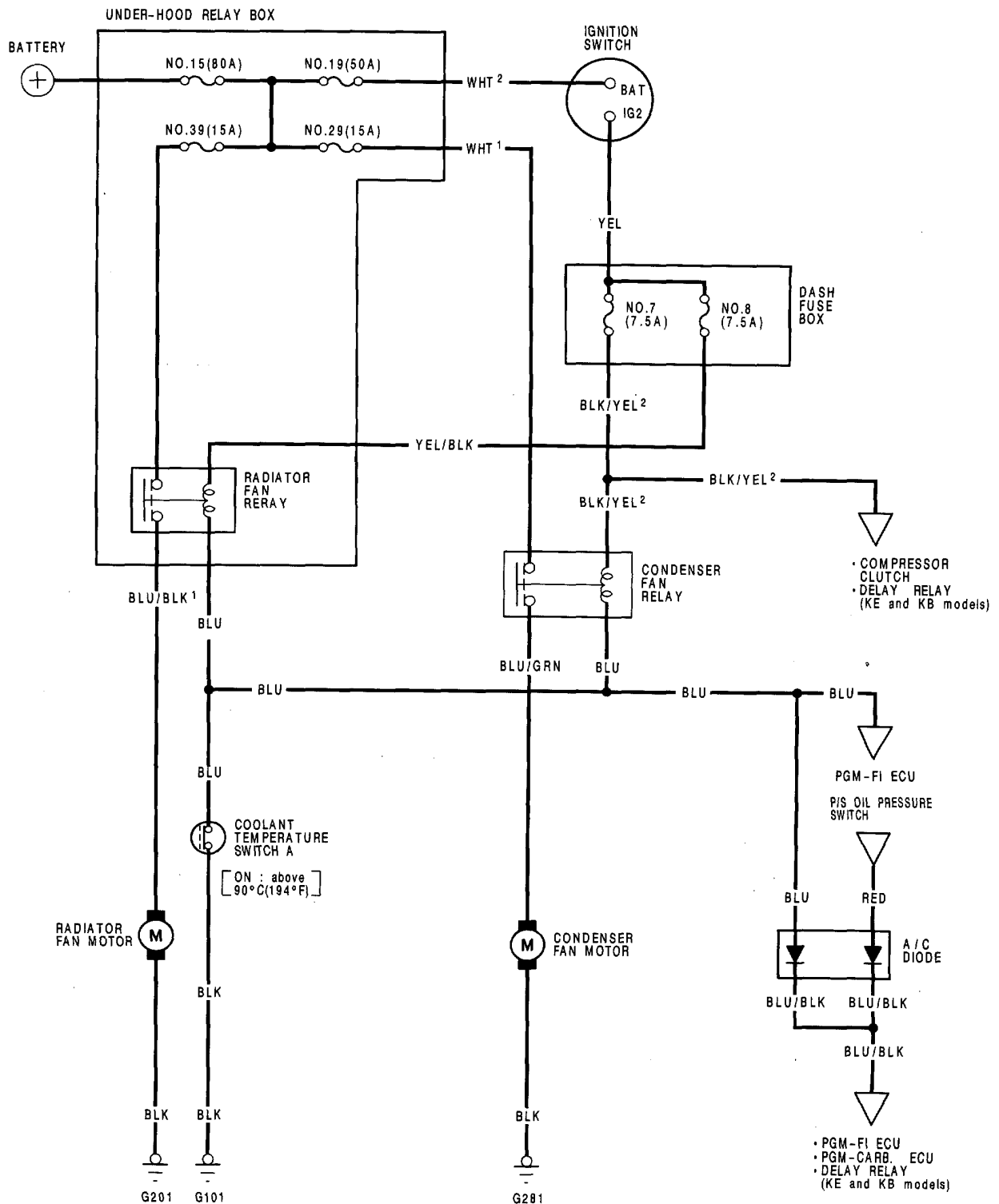
Circuit Diagram (Except KY and KQ models: With Fan Timer System)



(cont'd)

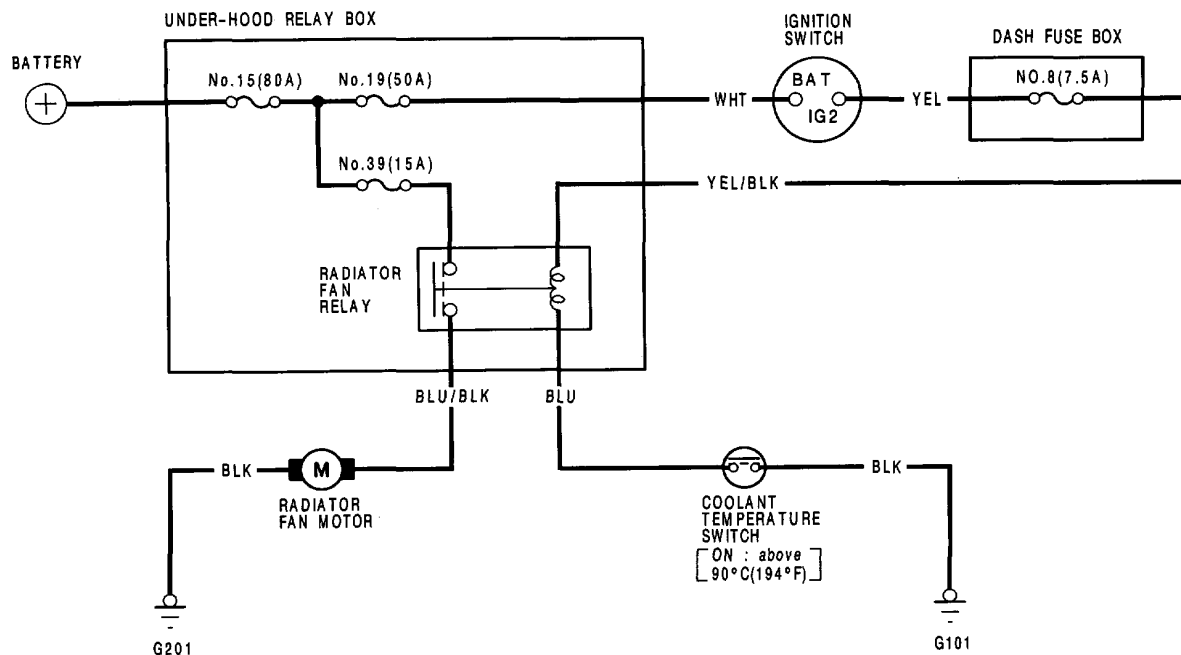
Cooling Fan Control

Circuit Diagram (Except KY and KQ models: Without Fan Timer System)





Circuit Diagram (Without A/C)



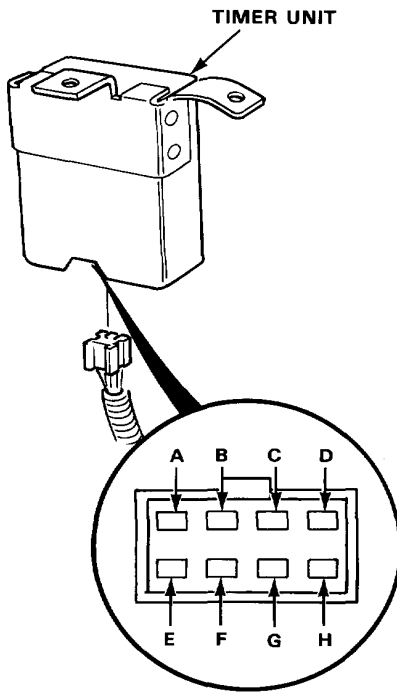
Troubleshooting (With A/C)

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

Item to be inspected		Blown No. 29 (15 A) or No. 39 (15 A) fuse (in the under-hood relay box)	Radiator fan or condenser fan relay	Radiator fan or condenser fan motor	A/C diode	Blown No. 2 (15 A) fuse (in the dash fuse box)	Coolant temperature switch A	Faulty cooling fan timer unit	Coolant temperature switch B	A/C system	Poor ground	Open circuit in wires or loose or disconnected terminals
Symptom		1	2	3	4							
Only one fan operates (with engine and A/C ON).											G401 G402	BLU, BLU/BLK ¹ , BLU/BLK ² BLU/BLK ³ , BLU/YEL, YEL/BLK, YEL/WHT, BLU/GRN, YEL or WHT ¹
Fans do not rotate.	Under all conditions.					1	2	3			G101	YEL/BLK, YEL or BLU
	A/C ON									1		
Fan timer unit fails to function properly.								2	1		G401 G402	WHT ¹ , WHT/GRN or YEL/WHT

Cooling Fan Control

Timer Unit Terminals (With fan timer system)



Terminal	Wire	Destination
A	YEL*1	Radiator fan relay ⊕
	YEL/WHT*2	Condenser fan relay ⊖
B	YEL/BLK	Power supply (For condenser fan relay by way of timer unit with ignition switch ON)
C	WHT/YEL*1	Condenser fan relay ⊖
	*2	(Not used)
D	BLK	Ground
E	WHT/GRN	Coolant temperature switch B
F	WHT	Constant power (For condenser fan relay by way of timer unit)
G	BLK/YEL	IG1 (Timer reset signal)
H	BLU	Condenser fan relay ⊕

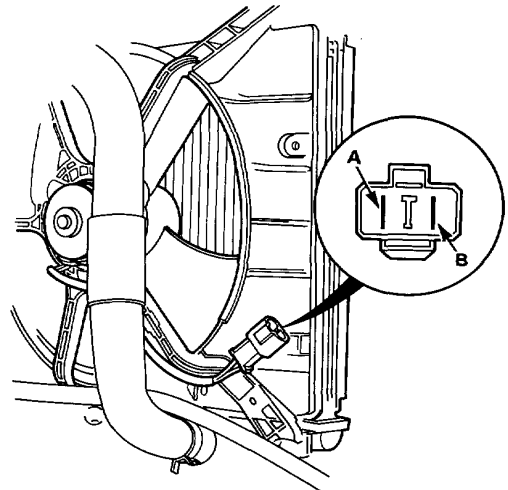
*1: KY and KQ models

*2: Except KY and KQ models

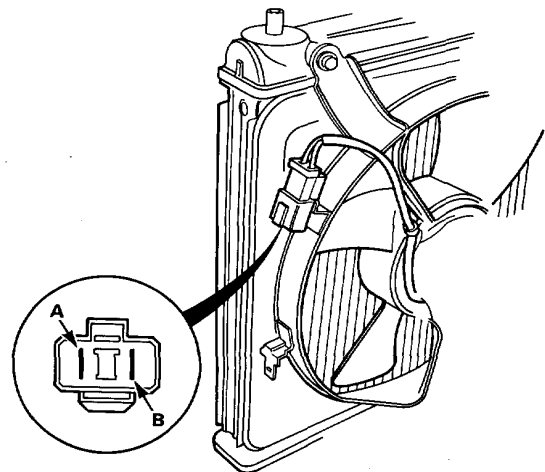
Fan Motor Test

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

Radiator Fan Motor:



Condenser Fan Motor:



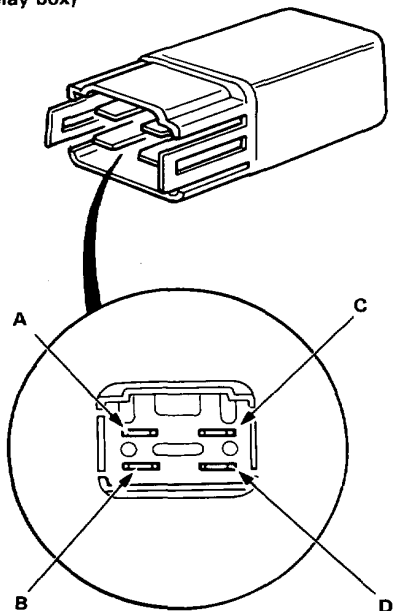


Relay Test

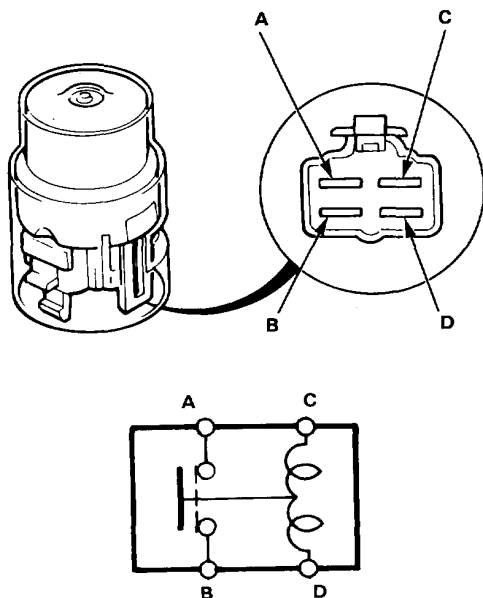
There should be continuity between the A and B terminals when the battery is connected to the C and D terminals. There should be no continuity when the battery is disconnected.

NOTE: Test procedures are same for all relays.

RADIATOR FAN RELAY (in the relay box)

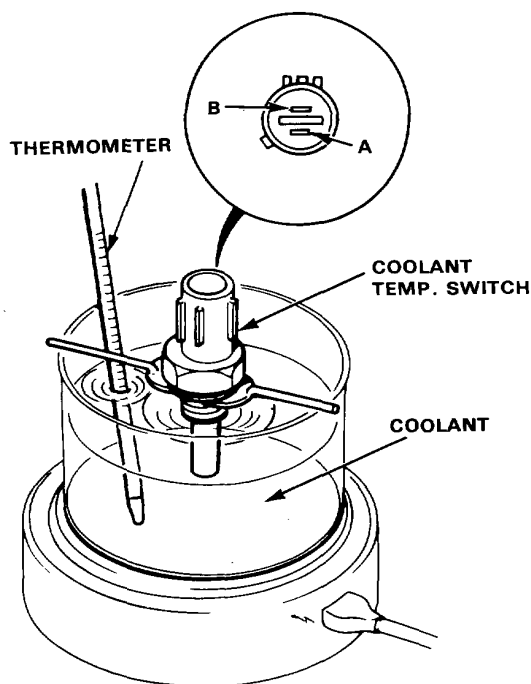


CONDENSER FAN RELAY (With A/C)



Coolant Temperature Switch Test

1. Remove the coolant temperature switch A from the thermostat housing or the switch B from the water outlet cover.
2. Suspend the coolant temperature switch in a container of coolant as shown.



3. Heat the coolant and check coolant temperature with a thermometer.
4. Measure the resistance between the A and B terminals according to the table.

		Terminal	
Temperature		A	B
Switch A	Above 87—93°C (189—199°F)	○—○	
	Below 80—91°C (176—196°F)		
Switch B	Above 105—111°C (221—232°F)	○—○	
	Below 98—109°C (208—228°F)		