

COOLING SYSTEM SPECIFICATIONS & ENGINE COOLING FANS

1998 Toyota Supra

1997-98 ENGINE COOLING

Lexus/Toyota Specifications & Electric Cooling Fans

Lexus: 1998: LX470

Toyota: 1997: Paseo, Previa

1997-98: Avalon, Camry, Celica, Corolla, Land Cruiser,

Paseo, RAV4, Supra, Tacoma, Tercel, T100, 4Runner

1998: Sienna

SPECIFICATIONS

BELT ADJUSTMENT

On all models except 1998 Corolla, 1998 Land Cruiser, LX470 and Supra, ensure belt tension is within specification. See appropriate BELT ADJUSTMENT table. On 1998 Corolla, 1998 Land Cruiser, LX470 and Supra, automatic belt tensioner is used and serpentine drive belt must be properly installed.

4-CYLINDER BELT ADJUSTMENT (1)

Application	New Belt	(2) Used Belt
Camry		
A/C	165 (75)	110 (50)
Generator		
With A/C	165 (75)	110 (50)
Without A/C	125 (57)	95 (43)
Power Steering	145 (66)	100 (45)
Celica		
1.8L (7A-FE)		
A/C	160 (73)	100 (45)
Generator	175 (79)	115 (52)
Power Steering	121 (55)	77 (35)
2.2L (5S-FE)		
A/C	175 (79)	110 (50)
Generator		
With A/C	175 (79)	115 (52)
Without A/C	125 (57)	95 (43)
Power Steering	121 (55)	77 (35)
Corolla (1997)		
A/C	160 (73)	100 (45)
Generator	175 (79)	115 (52)
Power Steering	150 (68)	100 (45)
Paseo		
A/C & Power Steering	160 (73)	100 (45)
Generator	160 (73)	100 (45)
Previo		
A/C	165 (75)	100 (45)
Generator	170 (77)	125 (57)
Power Steering	180 (82)	135 (61)
Supercharger Belt	170 (77)	125 (57)
RAV4		
A/C	165 (75)	110 (50)
Generator		
With A/C	165 (75)	110 (50)
Without A/C	125 (57)	95 (43)
Power Steering	145 (66)	100 (45)
Tacoma		

A/C	160 (73)	.....	100 (45)
Generator	150 (71)	.....	75 (32)
Power Steering	180 (82)	.....	120 (54)
Tercel			
A/C	160 (73)	.....	100 (45)
Generator	160 (73)	.....	100 (45)
Power Steering	160 (73)	.....	100 (45)
T100			
A/C	160 (73)	.....	100 (45)
Generator	175 (79)	.....	115 (52)
Power Steering	185 (84)	.....	120 (54)
4Runner			
A/C	160 (73)	.....	100 (45)
Generator	175 (79)	.....	115 (52)
Power Steering	160 (73)	.....	100 (45)

- (1) - Tension in Lbs. (kg) using Burroughs tension gauge.
(2) - Used belt is a belt in operation for at least 5 minutes.

6-CYLINDER BELT ADJUSTMENT (1)

Application	New Belt	(2) Used Belt
Land Cruiser (1997)		
A/C	150 (68)	100 (45)
Generator	132 (60)	88 (40)
Supra		
Drive Belt	(3)	(3)

- (1) - Tension in Lbs. (kg) using Burroughs tension gauge.
(2) - Used belt is a belt in operation for at least 5 minutes.
(3) - Automatic belt tensioner is used. Adjustment is not required.

V6 BELT ADJUSTMENT (1)

Application	New Belt	(2) Used Belt
Avalon, Camry & Sienna		
A/C	165 (75)	88 (40)
Generator	175 (79)	115 (52)
Power Steering	165 (75)	115 (52)
T100 & 4Runner		
Generator	160 (73)	100 (45)
A/C & Power Steering	125 (57)	80 (36)
Tacoma		
A/C	160 (73)	100 (45)
Generator	160 (73)	100 (45)
Power Steering	160 (73)	100 (45)

- (1) - Tension in Lbs. (kg) using Burroughs tension gauge.
(2) - Used belt is a belt in operation for at least 5 minutes.

COOLING SYSTEM SPECIFICATIONS

4-CYLINDER COOLING SYSTEM SPECIFICATIONS

Application	Specification
Coolant Replacement Interval	
First Service Interval (1)	45,000 Miles Or 36 Months

Coolant Capacity

Camry	7.2 Qts. (6.8L)
Celica	
1.8L (7A-FE)	
A/T	7.0 Qts. (6.6L)
M/T	6.4 Qts. (6.1L)
2.2L (5S-FE)	
A/T	7.5 Qts. (7.1L)
M/T	7.1 Qts. (6.7L)
Corolla	
1997	
1.6L (4A-FE)	
A/T	6.2 Qts. (5.9L)
M/T	6.3 Qts. (6.0L)
1.8L (7A-FE)	
A/T	6.4 Qts. (6.1L)
M/T	6.6 Qts. (6.2L)
1998	
A/T	6.0 Qts. (5.7L)
M/T	6.1 Qts. (5.8L)
Paseo	
A/T	5.6 Qts. (5.3L)
M/T	5.2 Qts. (4.9L)
Previa	12.4 Qts. (11.7L)
RAV4	
A/T	8.1 Qts. (7.7L)
M/T	8.5 Qts. (8.0L)
Tacoma	
2WD	
A/T	8.2 Qts. (7.8L)
M/T	8.5 Qts. (8.0L)
4WD	
A/T	8.7 Qts. (8.2L)
M/T	8.8 Qts. (8.3L)
Tercel	
A/T	5.6 Qts. (5.3L)
M/T	5.2 Qts. (4.9L)
T100	9.2 Qts. (8.7L)
4Runner	
With Rear Heater	11.6 Qts. (11.0L)
Without Rear Heater	10.6 Qts. (10.0L)
Pressure Cap Standard Opening Pressure	
Except RAV4	(2) 10.7-14.9 psi
RAV4	(3) 13.5-17.8 psi
Thermostat Opening Temperature	
1998 Corolla	165-173 °F (74-79 °C)
Except 1998 Corolla	176-183 °F (80-84 °C)

(1) - After first service interval, replace coolant every 30,000 miles or 24 months.

(2) - Minimum opening pressure is 8.5 psi.

(3) - Minimum opening pressure is 11.4 psi.

6-CYLINDER COOLING SYSTEM SPECIFICATIONS

Application	Specification
Coolant Replacement Interval	
First Service Interval (1)	45,000 Miles Or 36 Months
Coolant Capacity	
Land Cruiser (1997)	
With Front Heater Only	14.5 Qts. (13.7L)

With Front & Rear Heater	15.5 Qts. (14.7L)
Supra	
Non-Turbo (2JZ-GE)	
A/T	8.8 Qts. (8.3L)
M/T	7.7 Qts. (7.3L)
Turbo (2JZ-GTE)	
A/T	9.3 Qts. (8.8L)
M/T	9.4 Qts. (8.9L)
Pressure Cap Standard Opening Pressure	(2) 13.5-17.8 psi
Thermostat Opening Temperature	176-183°F (80-84°C)

(1) - After first service interval, replace coolant every 30,000 miles or 24 months.

(2) - Minimum opening pressure is 11.4 psi.

V6 COOLING SYSTEM SPECIFICATIONS

Application	Specification
Coolant Replacement Interval	
First Service Interval (1)	45,000 Miles Or 36 Months
Coolant Capacity	
Avalon	9.4 Qts. (8.9L)
Camry	
With Oil Cooler	7.3 Qts. (6.9L)
Without Oil Cooler	6.5 Qts. (6.2L)
Sienna	
With Rear Heater	11.0 Qts. (10.4L)
Without Rear Heater	10.0 Qts. (9.5L)
Tacoma	
A/T	10.5 Qts. (9.9L)
M/T	10.7 Qts. (10.1L)
T100	
With Rear Heater	9.5 Qts. (9.0L)
Without Rear Heater	8.5 Qts. (8.0L)
4Runner	
3.0L (3VZ-E)	
A/T	10.4 Qts. (9.8L)
M/T	10.6 Qts. (10.0L)
3.4L (5VZ-FE)	
With Rear Heater	9.5 Qts. (9.0L)
Without Rear Heater	8.5 Qts. (8.0L)
Pressure Cap Standard Opening Pressure	
Avalon, Camry & Sienna	(3) 12.1-16.4 psi
Except Avalon, Camry & Sienna	(4) 10.7-14.9 psi
Thermostat Opening Temperature	176-183°F (80-84°C)

(1) - After first service interval, replace coolant every 30,000 miles or 24 months.

(2) - Minimum opening pressure is 11.4 psi.

(3) - Minimum opening pressure is 10.0 psi.

(4) - Minimum opening pressure is 8.5 psi.

V8 COOLING SYSTEM SPECIFICATIONS

Application	Specification
Coolant Replacement Interval	
First Service Interval (1)	45,000 Miles Or 36 Months
Coolant Capacity	
With Rear Heater	15.6 Qts. (14.8L)

Without Rear Heater 16.2 Qts. (13.4L)
 Pressure Cap Standard Opening Pressure (2) 13.5-17.8 psi
 Thermostat Opening Temperature 176-183°F (80-84°C)

- (1) - After first service interval, replace coolant every 30,000 miles or 24 months.
- (2) - Minimum opening pressure is 11.4 psi.

COOLING SYSTEM BLEEDING

No special cooling system bleeding procedure is required.

ELECTRIC COOLING FAN

* PLEASE READ THIS FIRST *

- NOTE: Electric cooling fan may be used for radiator or condenser. To verify electric cooling fan location and application, see ELECTRIC COOLING FAN IDENTIFICATION table. For condenser cooling fan testing, see appropriate article in the AIR CONDITIONING & HEAT section.
- NOTE: On A/C equipped models, an A/C high-pressure switch may be used in conjunction with cooling fan relays for controlling of radiator cooling fan. See appropriate article in the AIR CONDITIONING & HEAT section for additional information. Testing procedures for condenser cooling fan and radiator cooling fan are combined.

ELECTRIC COOLING FAN IDENTIFICATION

Application	Cooling Fan Identification
Avalon, Camry, Celica, RAV4 & Sienna	
Condenser Cooling Fan	Passenger's Side, Rear Of Radiator
Radiator Cooling Fan	Driver's Side, Rear Of Radiator
Corolla, Paseo & Tercel	
Condenser Cooling Fan	Passenger's Side, Front Of Radiator
Radiator Cooling Fan	Driver's Side, Rear Of Radiator
Supra	
Condenser Cooling Fan	Driver's Side, Front Of Radiator
Turbo	Driver's Side, Rear Of Radiator
Tacoma & 4Runner	
Condenser Cooling Fan	Passenger's Side, Front Of Radiator

RADIATOR COOLING FAN SYSTEM TEST (AVALON, CAMRY, CELICA, COROLLA, PASEO, TERCEL & RAV4)

- 1) Ensure engine coolant temperature is less than specified STEP 1 temperature. See RADIATOR COOLING FAN SYSTEM TESTING TEMPERATURE SPECIFICATIONS table. Turn ignition on. Ensure radiator cooling fan stops. Go to next step.
- 2) If radiator cooling fan stops, proceed to step 4). If radiator cooling fan remains on, check cooling fan relay No. 1 and Engine Coolant Temperature (ECT) switch. See COOLING FAN RELAY NO. 1 and ENGINE COOLANT TEMPERATURE (ECT) SWITCH under COMPONENT TESTING. Go to next step.
- 3) If cooling fan relay No. 1 and ECT switch are okay, check for open circuit in wire between ECT switch and cooling fan relay No. 1. See WIRING DIAGRAMS. Cooling fan relay No. 1 is located in engine

compartment fuse/relay box. See Figs. 1-7. For ECT switch locations, see ECT SWITCH LOCATIONS table.

4) With ignition on, disconnect electrical connector at Engine Coolant Temperature (ECT) switch. For ECT switch locations, see ECT SWITCH LOCATIONS table. Ensure radiator cooling fan operates. Go to next step.

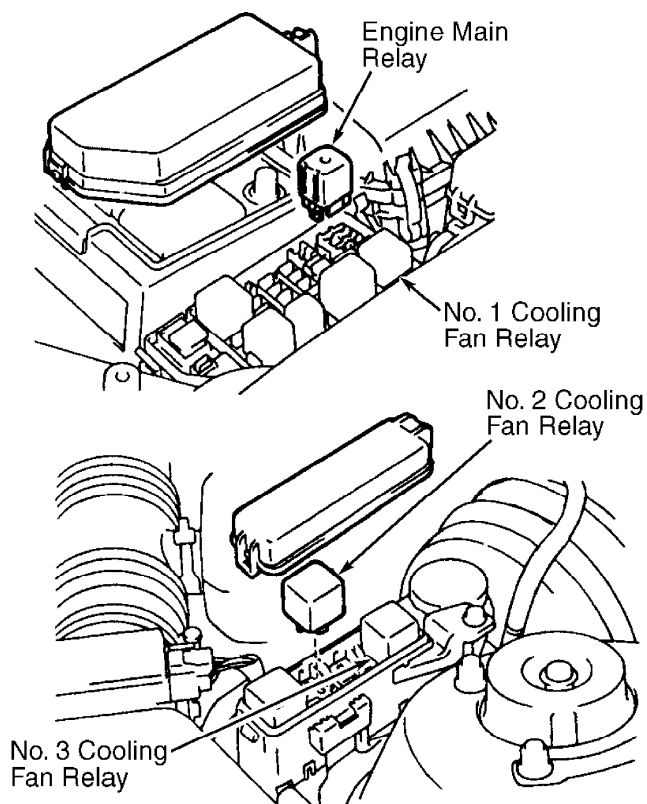
NOTE: Fan main relay is used on RAV4 only. Engine main relay is used on all other models.

5) If radiator cooling fan operates, proceed to step 7). If radiator cooling fan does not operate, check cooling fan relay No. 1, radiator cooling fan, engine or fan main relay, and necessary fuses. See WIRING DIAGRAMS. See COOLING FAN RELAY NO. 1, RADIATOR COOLING FAN, FAN MAIN RELAY and ENGINE MAIN RELAY under COMPONENT TESTING. Go to next step.

6) If all components are okay, check for short circuit in wire between cooling fan relay No. 1 and ECT switch. See WIRING DIAGRAMS.

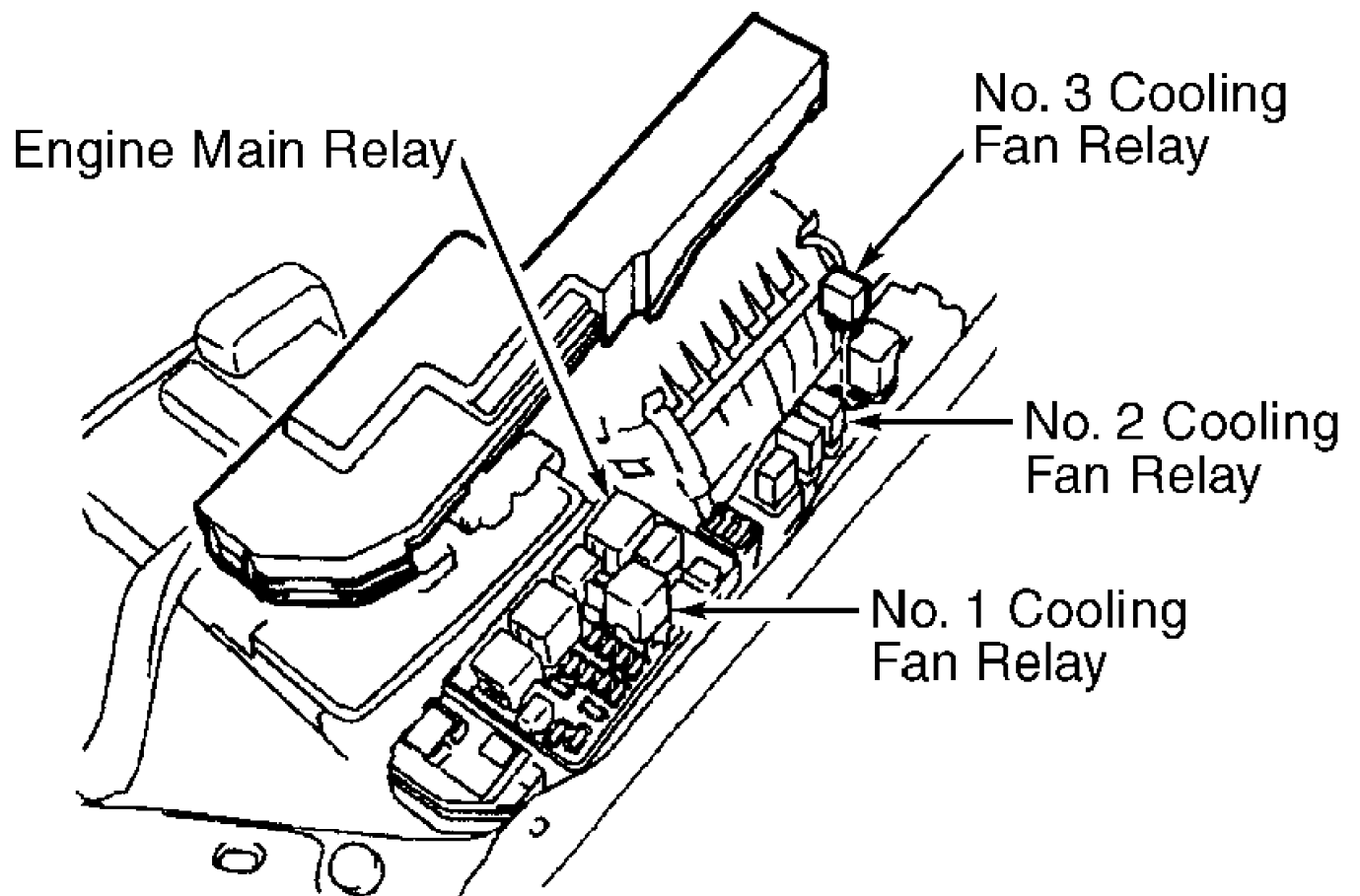
7) Reinstall electrical connector on ECT switch. Start engine. Warm engine until coolant temperature is greater than specified STEP 2 temperature. See RADIATOR COOLING FAN SYSTEM TESTING TEMPERATURE SPECIFICATIONS table. Go to next step.

8) Ensure radiator cooling fan operates. Replace ECT switch if radiator cooling fan fails to operate. Retest system.



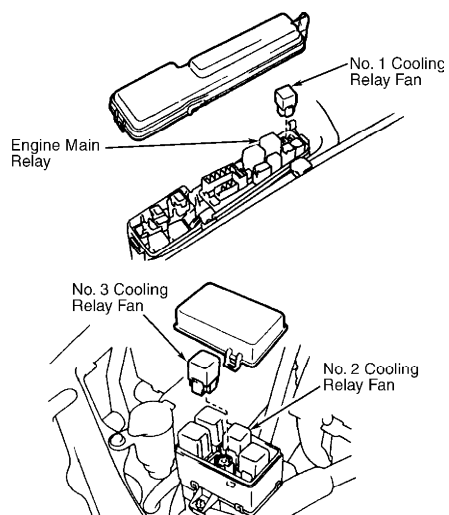
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Fig. 1: Identifying Relay Locations (Avalon)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



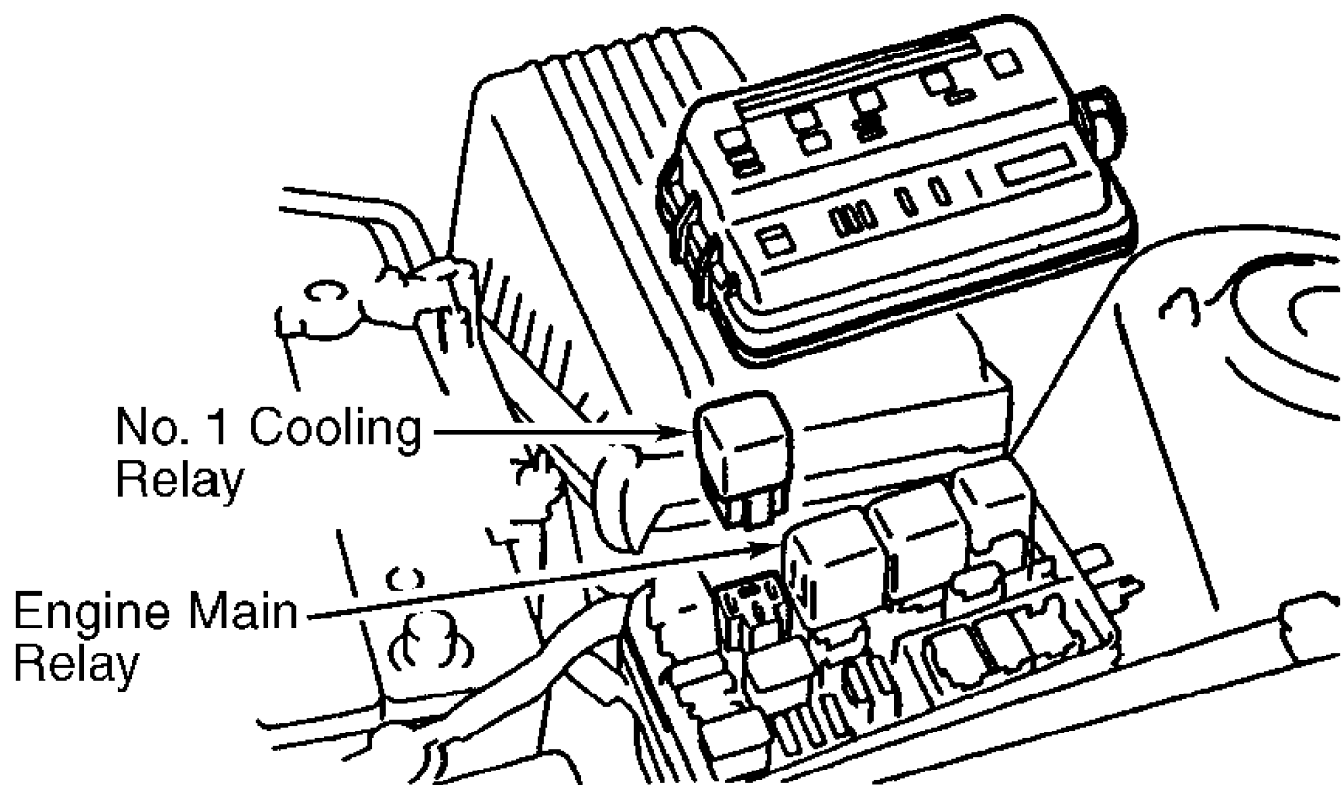
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Fig. 2: Identifying Relay Locations (Camry & Sienna)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



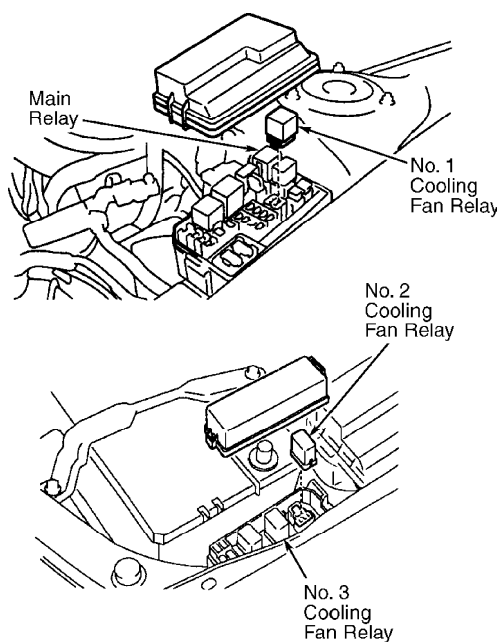
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Fig. 3: Identifying Relay Locations (Celica)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



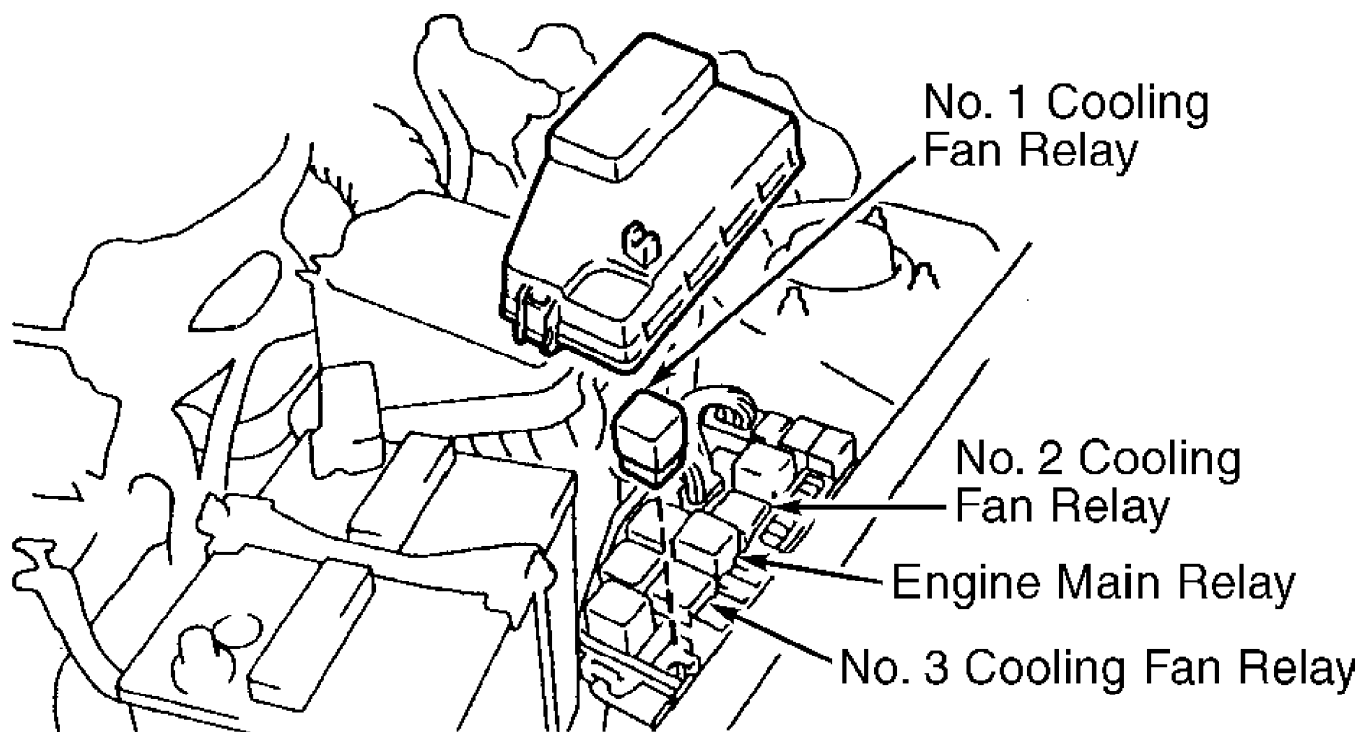
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Fig. 4: Identifying Relay Locations (Corolla)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



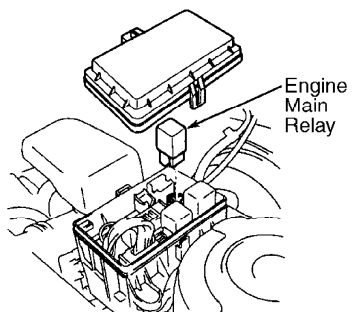
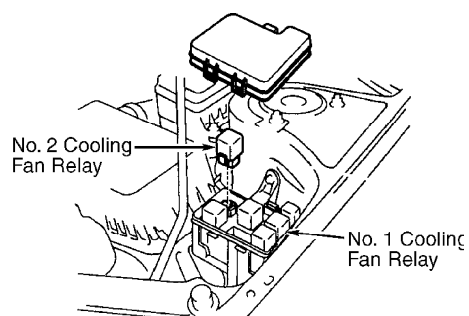
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Fig. 5: Identifying Relay Locations (Corolla)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 6: Identifying Relay Locations (Paseo & Tercel)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 7: Identifying Relay Locations (RAV4)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

Application	Step 1 Temp.	Step 2 Temp.
Avalon & Camry 3.0L	190°F (88°C)	208°F (98°C)
Camry 2.2L, Celica, & Corolla	181°F (83°C)	199°F (93°C)
Paseo, RAV4 & Tercel	181°F (83°C)	199°F (93°C)
Sienna	190°F (88°C)	208°F (98°C)
Supra Turbo	196°F (91°C) ...	212°F (100°C)

ECT SWITCH LOCATIONS

Application	Switch Location
Avalon	Center Of Engine
Avalon, Camry 3.0L (1MZ-FE) & Sienna ...	Bottom Of Radiator (No. 1), Center Of Engine (No. 2)
Camry 2.2L (5S-FE) & RAV4	Bottom Of Radiator
Celica	
1.8L (7A-FE)	(1)
2.2L (5S-FE)	Bottom Of Radiator
Corolla, Paseo & Tercel	(2)

(1) - ECT switch is located in coolant housing below distributor and contains a single-pin connector with a Blue/Black wire.

(2) - ECT switch is located in coolant housing below distributor and contains a single-pin connector with a Light Green wire.

RADIATOR COOLING FAN SYSTEM TEST (SUPRA TURBO - 2JZ-GTE)

1) Ensure engine coolant temperature is less than 196°F (91°C). Turn ignition on. Ensure radiator cooling fan stops.

2) If radiator cooling fan stops, proceed to step 5). If radiator cooling fan continues to operate, check cooling fan relays No. 1 and 2 and Engine Coolant Temperature (ECT) switch. See COOLING FAN RELAY NO. 1, COOLING FAN RELAY NO. 2 and ENGINE COOLANT TEMPERATURE (ECT) SWITCH under COMPONENT TESTING.

NOTE: Cooling fan relay No. 1 may also be referred to as radiator fan relay. Cooling fan relay No. 2 may also be referred to as ABS TRAC relay.

3) If cooling fan relays No. 1 and 2, and ECT switch are okay, check for open circuit in wire between ECT switch and cooling fan relay No. 1. See WIRING DIAGRAMS.

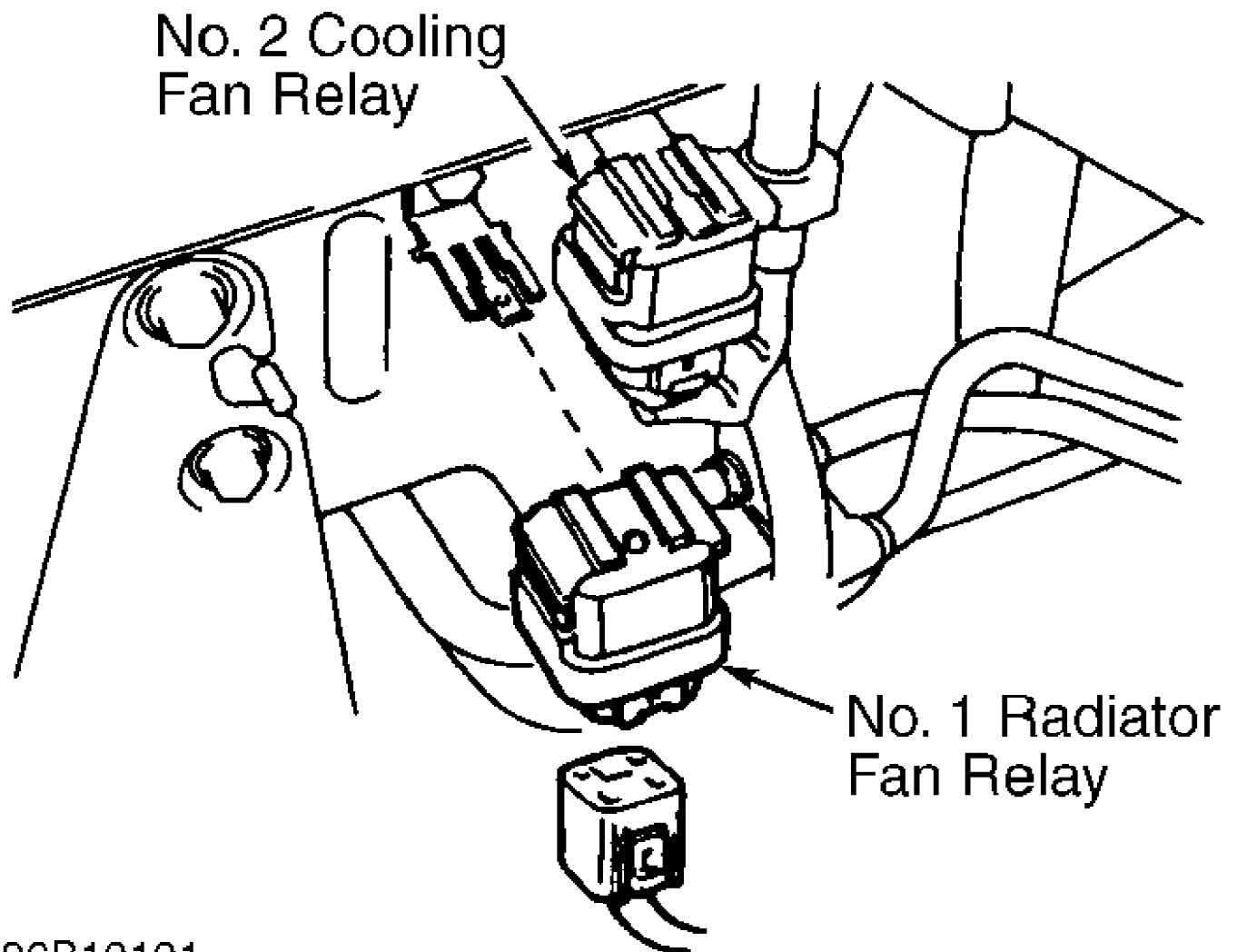
4) Cooling fan relay No. 1 is located at driver's side front corner of engine compartment. See Fig. 8. The ECT switch is located in the lower driver's side of radiator.

5) With ignition on, disconnect electrical connector at Engine Coolant Temperature (ECT) switch, located in lower driver's side of radiator. Ensure radiator cooling fan operates.

6) If radiator cooling fan operates, proceed to step 8). If radiator cooling fan does not operate, check cooling fan relays No. 1 and 2, radiator cooling fan and necessary fuses. See WIRING DIAGRAMS. See COOLING FAN RELAY NO. 1, COOLING FAN RELAY NO. 2 and RADIATOR COOLING FAN under COMPONENT TESTING.

7) If all components are okay, check for short circuit in wire between cooling fan relay No. 1 and ECT switch. See WIRING DIAGRAMS.

8) Install electrical connector on ECT switch. Start engine. Warm engine until coolant temperature is greater than 212°F (100°C). Ensure radiator cooling fan operates. Replace ECT switch if radiator cooling fan fails to operate. Retest system.



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Fig. 8: Identifying Relay Locations (Supra Turbo)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

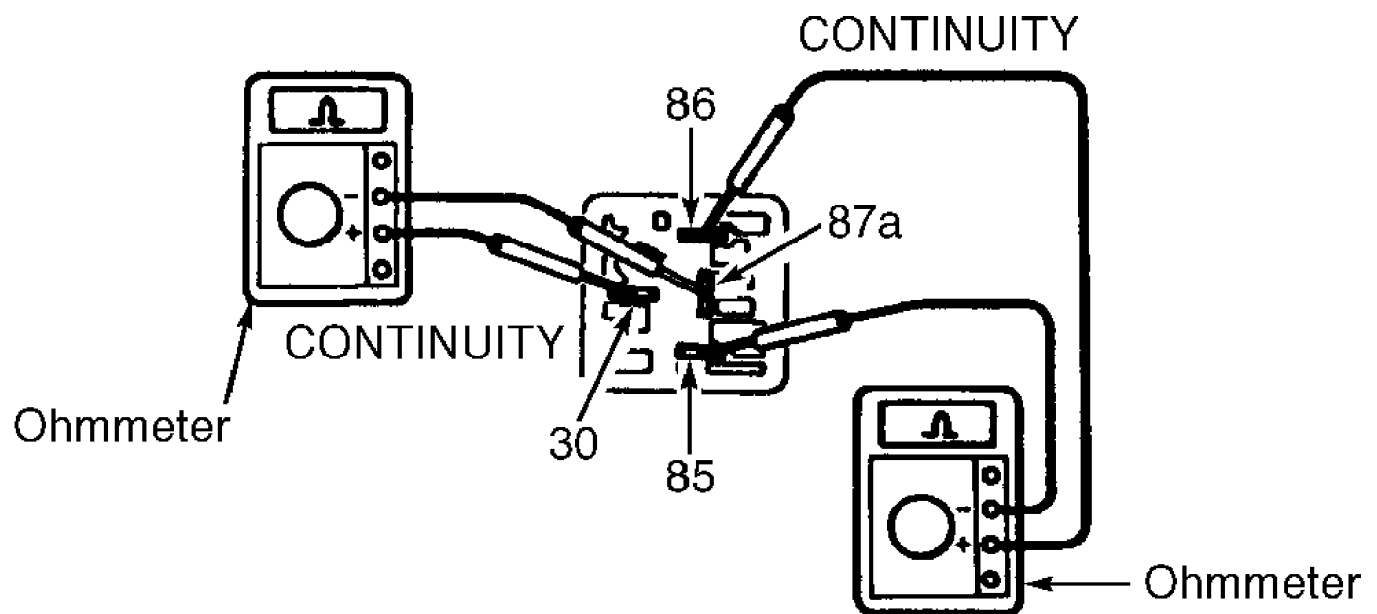
COMPONENT TESTING

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle.

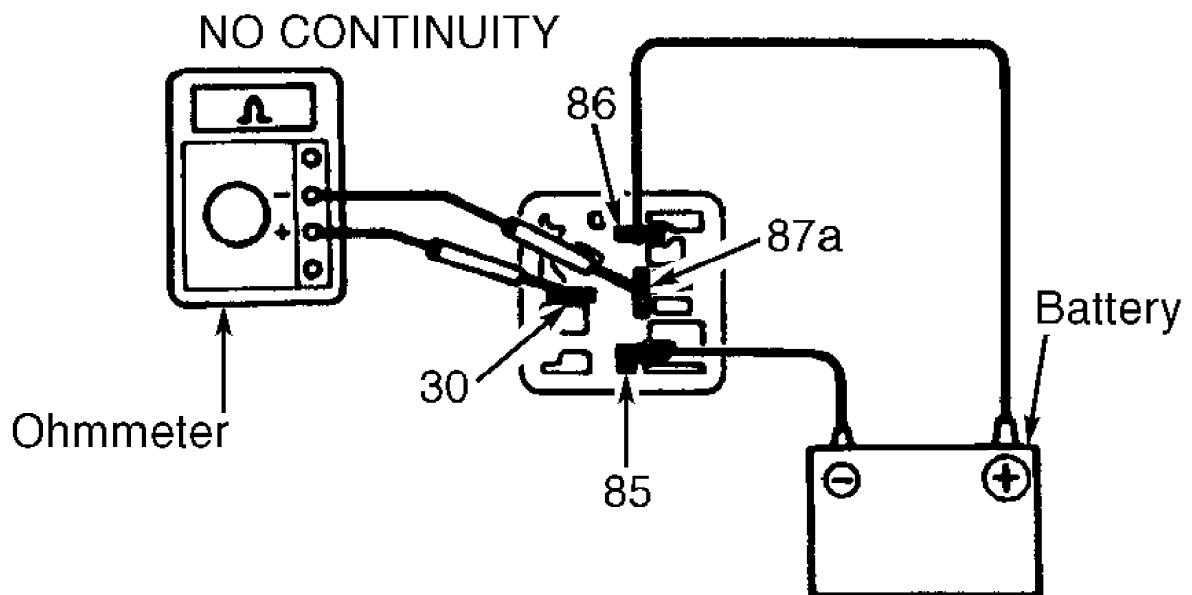
Cooling Fan Relay No. 1 (Except Supra Turbo)

1) Disconnect negative battery cable. Remove cooling fan relay No. 1 from fuse/relay box. See Figs. 4-11. Using an ohmmeter, ensure continuity exists between specified terminals. See Fig. 9.

2) To check relay operation, connect battery voltage and ground to specified terminals of cooling fan relay No. 1. Using an ohmmeter, ensure no continuity exists between specified terminals. See Fig. 9. Replace cooling fan relay No. 1 if defective.



CHECKING CONTINUITY



CHECKING OPERATION

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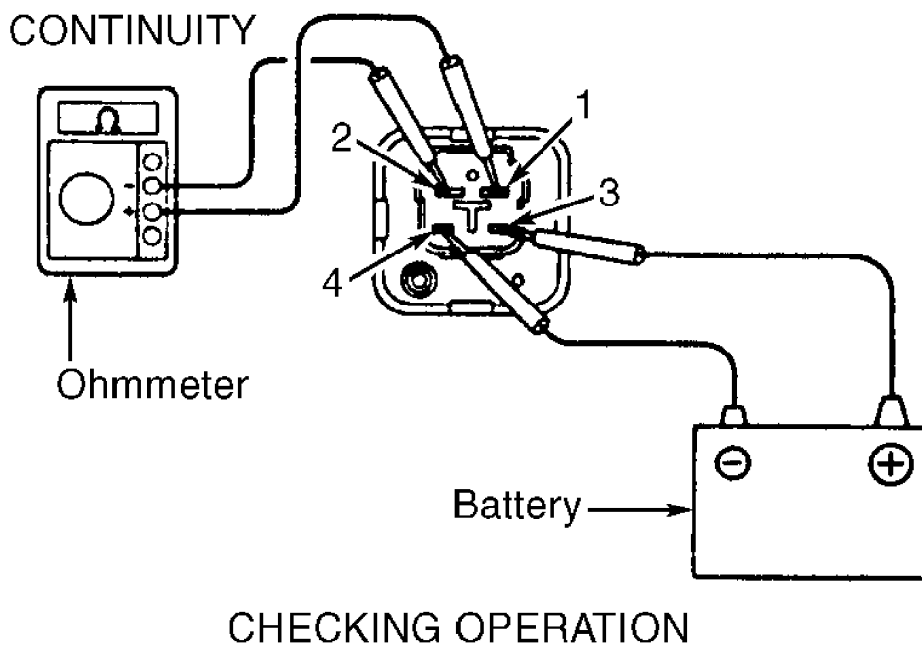
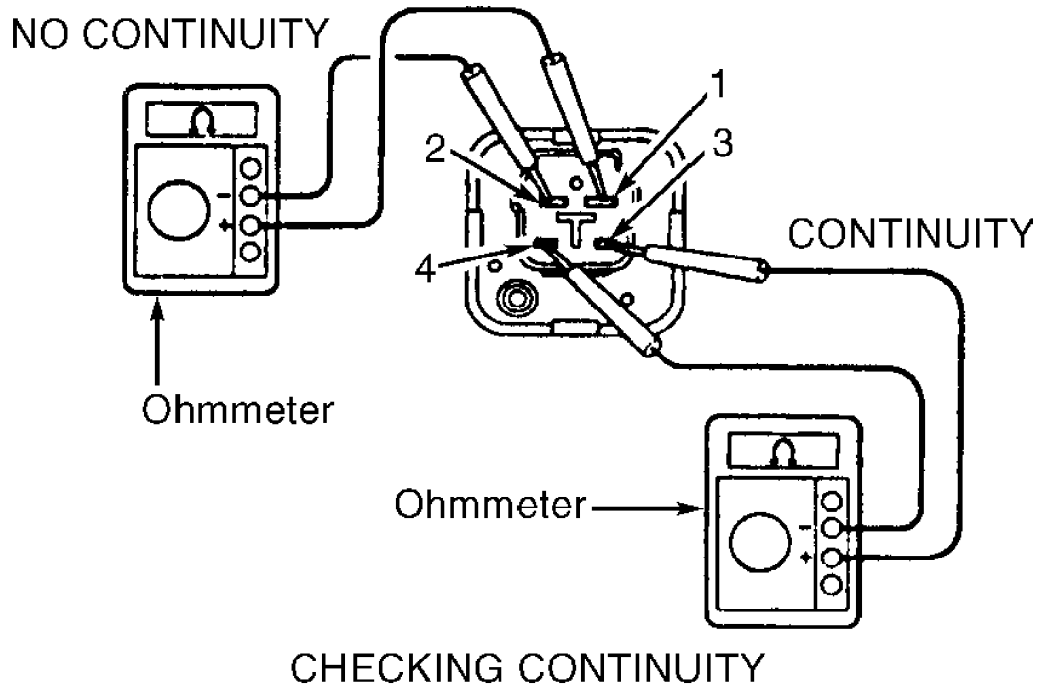
Fig. 9: Testing Cooling Fan Relay No. 1 (Except Supra Turbo)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

Cooling Fan Relay No. 1 (Supra Turbo)

1) Disconnect negative battery cable. Remove cooling fan relay No. 1 from driver's side front corner of engine compartment. See Fig. 8. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 10.

2) To check relay operation, connect battery voltage and

ground to specified terminals of cooling fan relay No. 1. Using an ohmmeter, ensure continuity exists between specified terminals. See Fig. 10. Replace cooling fan relay No. 1 if defective.



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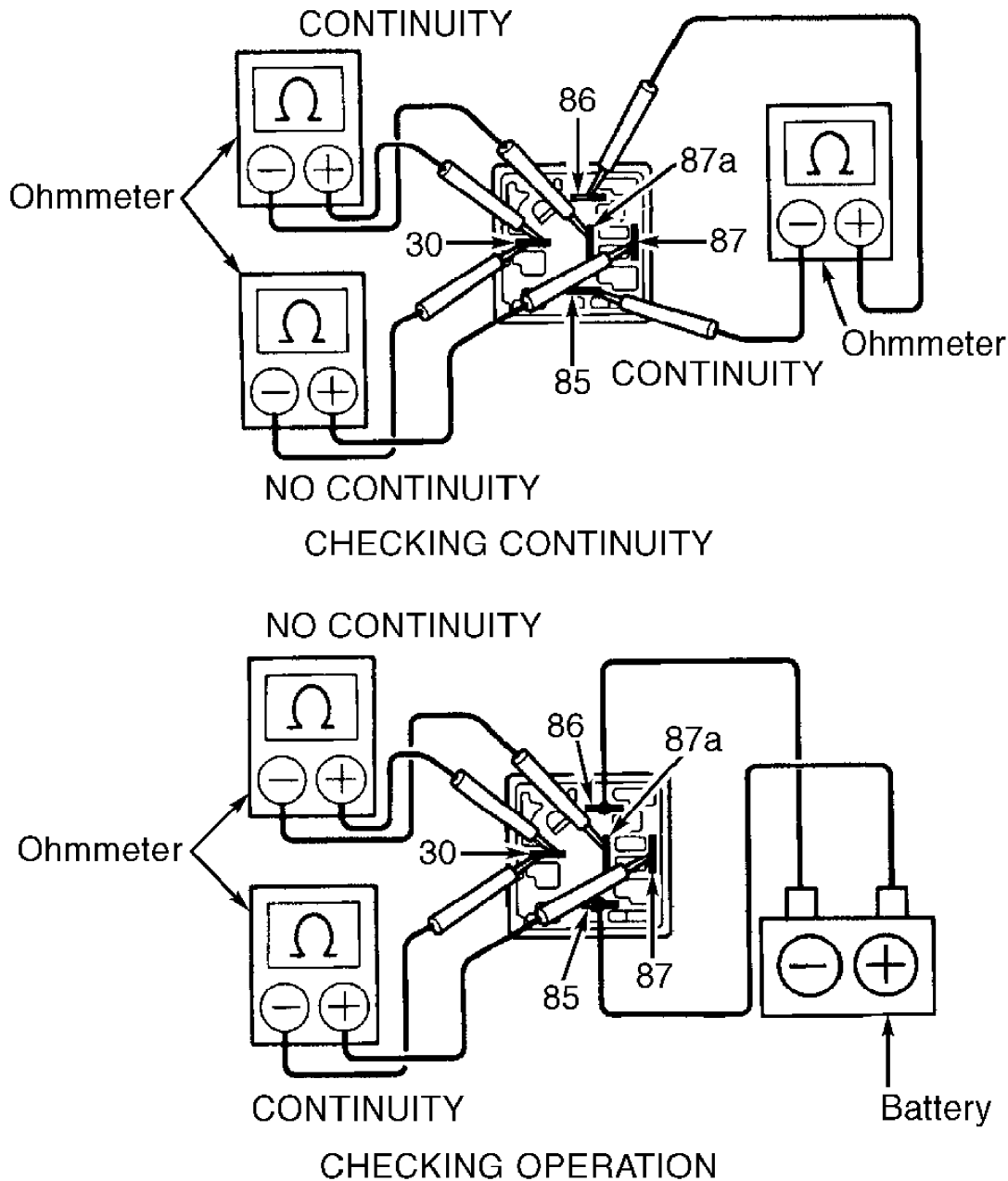
Fig. 10: Testing Cooling Fan Relay No. 1 (Supra Turbo)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Cooling Fan Relay No. 2 (Except Supra Turbo)

1) Disconnect negative battery cable. Remove cooling fan

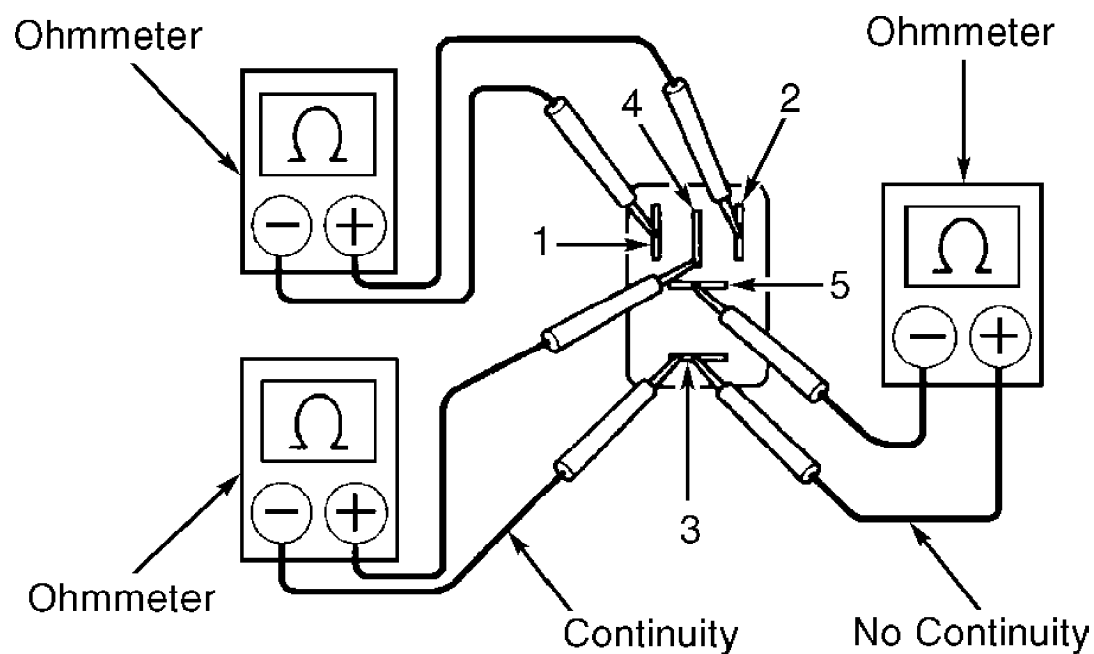
relay No. 2 from fuse/relay box. See Figs. 1-7. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 11 or 12.

2) To check relay operation, connect battery voltage and ground to specified terminals of cooling fan relay No. 2. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 11 or 12. Replace cooling fan relay No. 2 if defective.

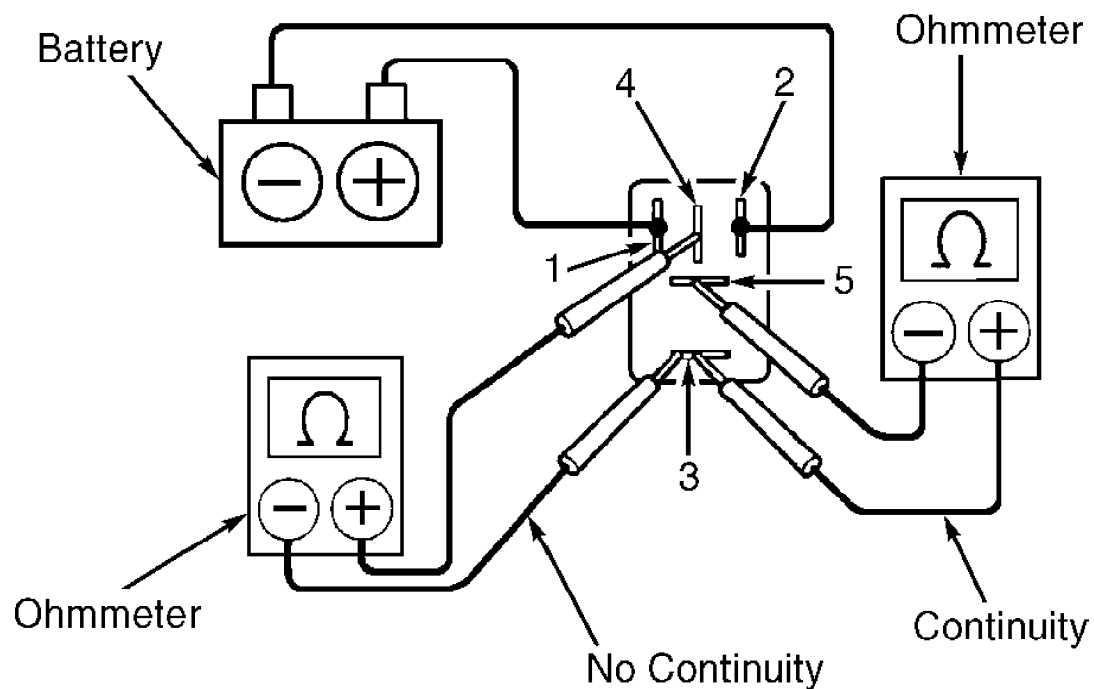


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Fig. 11: Testing Cooling Fan Relay No. 2 (Except Camry, 1998 Corolla, Sienna & Supra Turbo)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



CHECKING CONTINUITY



CHECKING OPERATION

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Fig. 12: Testing Cooling Fan Relay No. 2 (Camry, 1998 Corolla & Sienna)

Courtesy of Toyota Motor Sales, U.S.A., Inc.

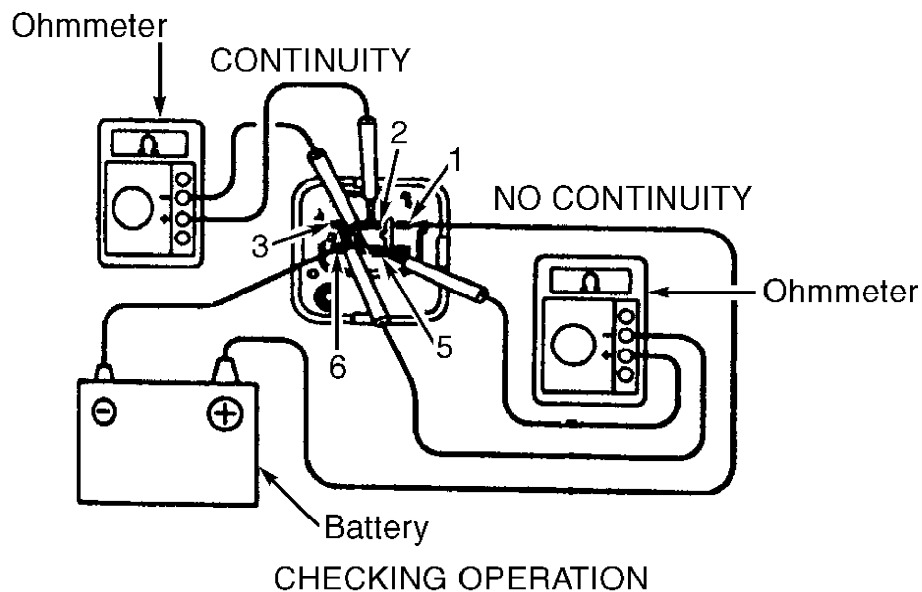
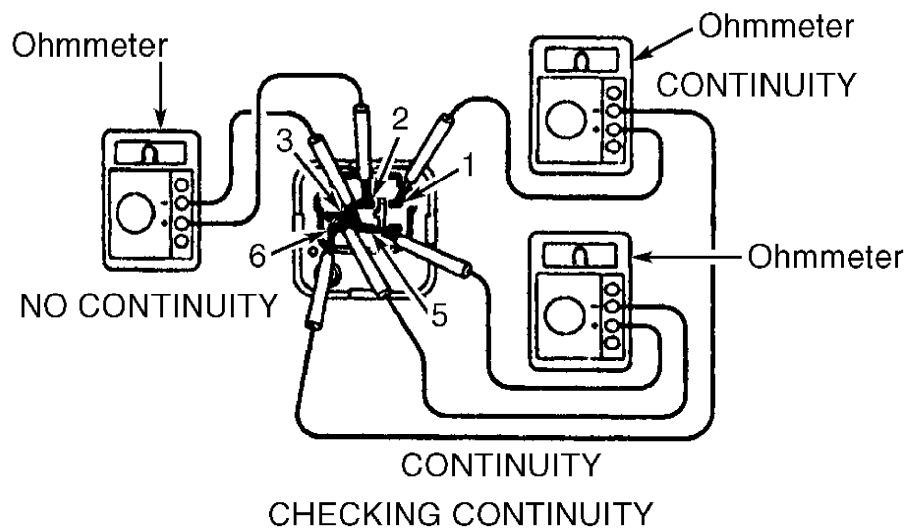
Cooling Fan Relay No. 2 (Supra Turbo)

1) Disconnect negative battery cable. Remove cooling fan relay No. 2 from driver's side front corner of engine compartment. See Fig. 8.

NOTE: Cooling fan relay No. 2 may also be referred to as ABS TRAC relay.

2) Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 13.

3) To check relay operation, connect battery voltage and ground to specified terminals of cooling fan relay No. 2. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 13. Replace cooling fan relay No. 2 if defective.



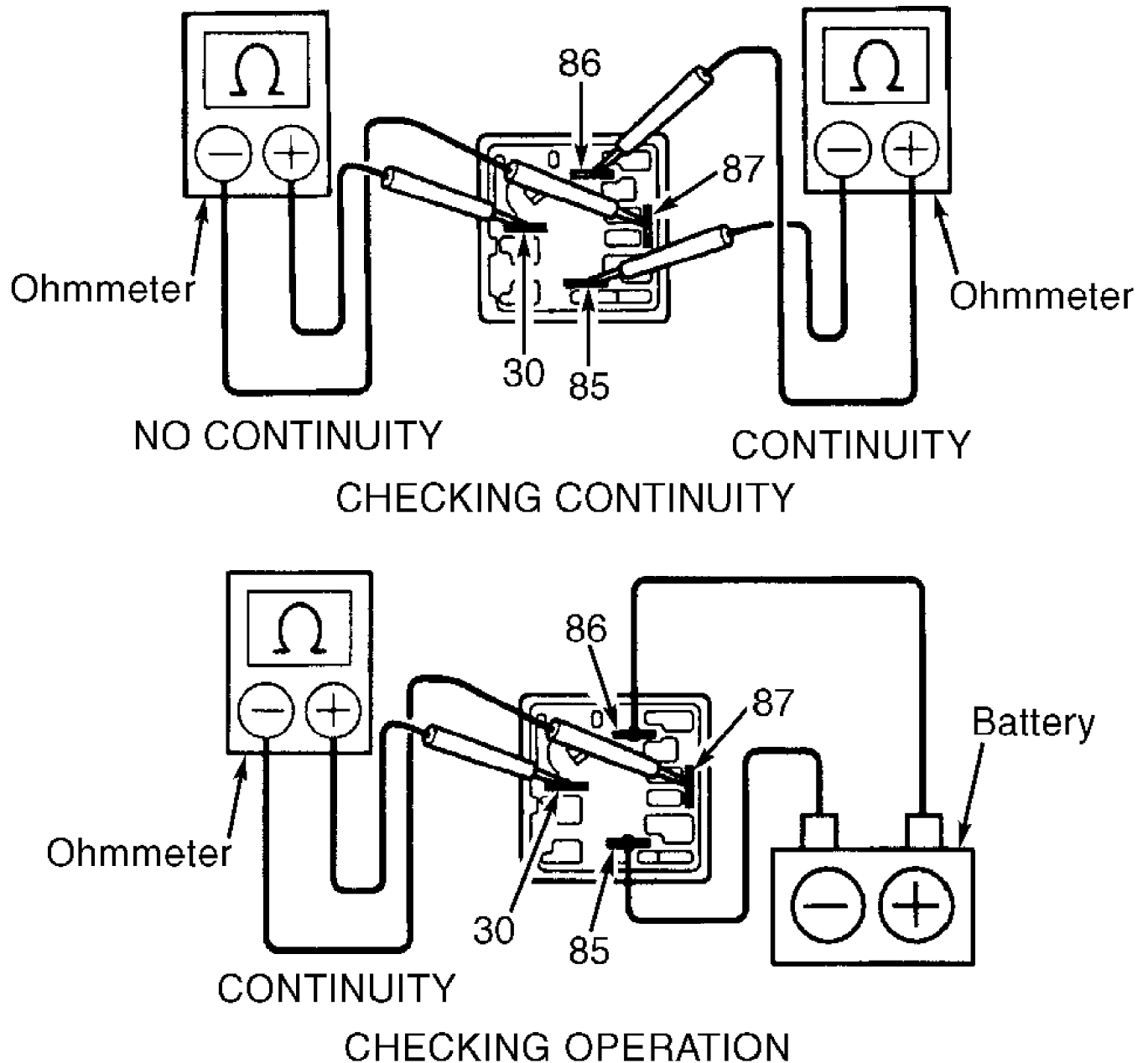
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Fig. 13: Testing Cooling Fan Relay No. 2 (Supra Turbo)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Cooling Fan Relay No. 3 (Avalon, Camry, Celica, 1998 Corolla, Paseo, Sienna & Tercel)

1) Disconnect negative battery cable. Remove cooling fan relay No. 3 from fuse/relay box. See Figs. 1-7. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 14 or 15.

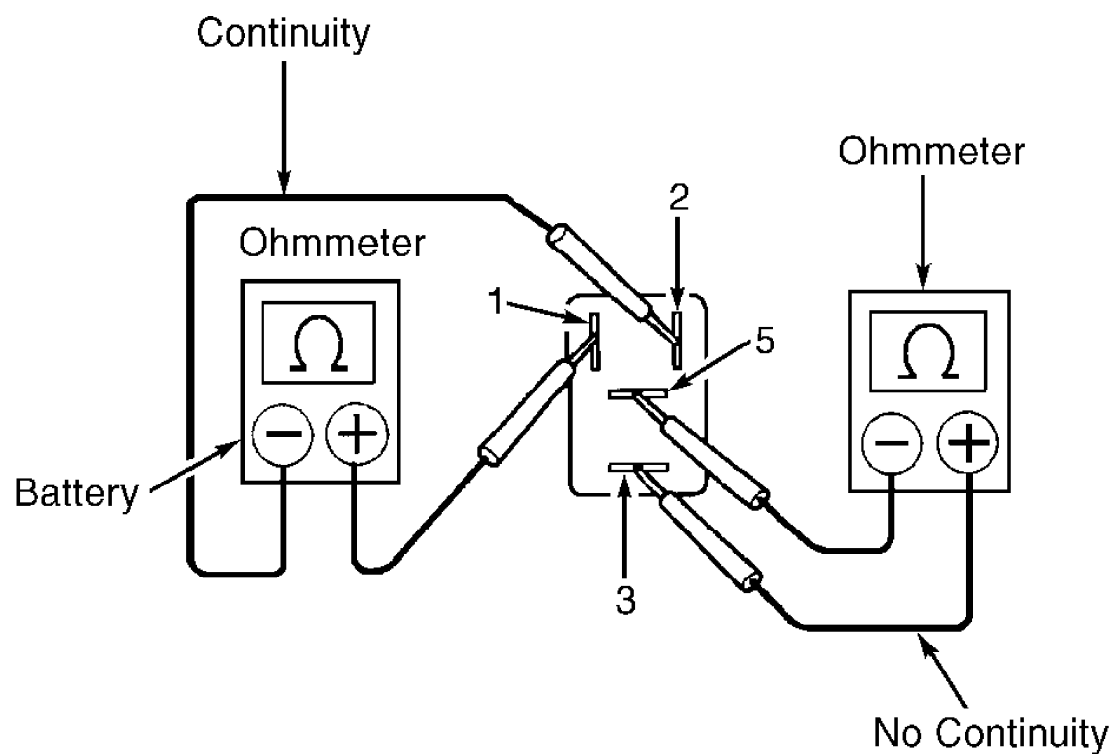
2) To check relay operation, connect battery voltage and ground to specified terminals of cooling fan relay No. 3. Using an ohmmeter, ensure continuity exists between specified terminals. See Fig. 14 or 15. Replace cooling fan relay No. 3 if defective.



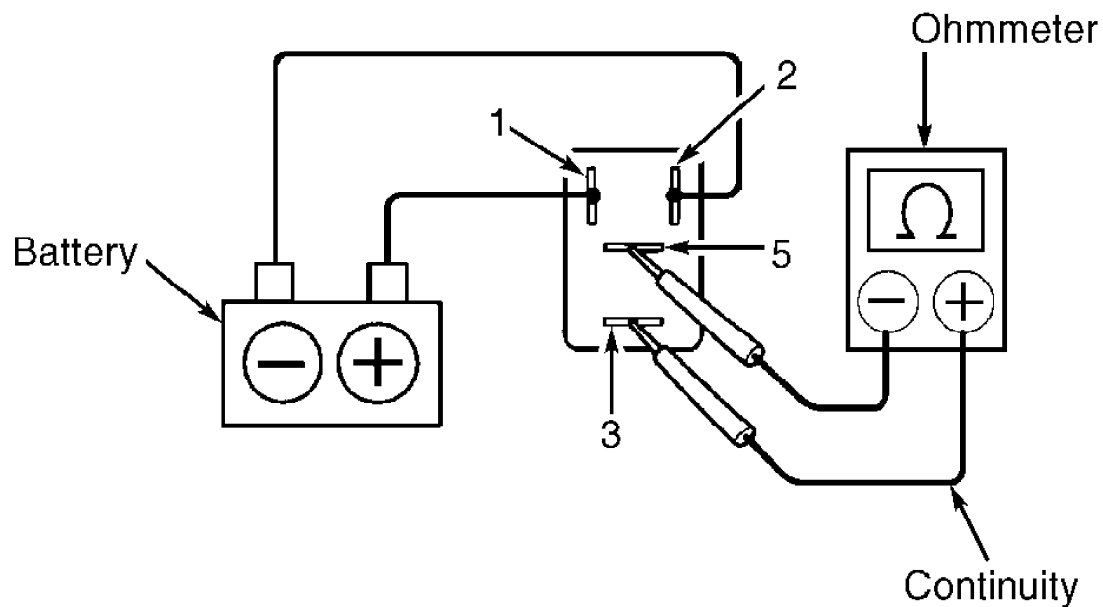
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Fig. 14: Testing Cooling Fan Relay No. 3 (Avalon, Celica, Paseo & Tercel)

Courtesy of Toyota Motor Sales, U.S.A., Inc.



CHECKING CONTINUITY



CHECKING OPERATION

98A13128

Fig. 15: Testing Cooling Fan Relay No. 3 (Camry, 1998 Corolla, & Sienna)

Courtesy of Toyota Motor Sales, U.S.A., Inc.

Engine Coolant Temperature (ECT) Switch (Single Terminal)

1) Disconnect negative battery cable. Drain cooling system. Disconnect electrical connector and remove ECT switch. See ECT SWITCH LOCATION table. Place probe end of ECT switch in container of water.

2) Using an ohmmeter, check for continuity between electrical terminal on ECT switch and switch body while heating water to specified temperatures. See ECT SWITCH CONTINUITY SPECIFICATIONS table. Replace ECT switch if continuity is not as specified. Reinstall switch and fill cooling system.

Engine Coolant Temperature (ECT) Switch (Dual Terminal)

1) Disconnect negative battery cable. Drain cooling system. Disconnect electrical connector and remove ECT switch. See ECT SWITCH LOCATION table. Place probe end of ECT switch in container of water.

2) Using an ohmmeter, check for continuity between electrical terminals on ECT switch while heating water to specified temperatures. See ECT SWITCH CONTINUITY SPECIFICATIONS table.

3) Replace ECT switch if continuity is not as specified. Reinstall ECT switch using NEW "O" ring (if equipped). Fill cooling system.

ECT SWITCH LOCATION

Application	Switch Location
Avalon & Camry 3.0L (1MZ-FE) (1)	Center Of Engine
Camry 2.2L (5S-FE) & RAV4	Bottom Of Radiator
Celica	
1.8L (7A-FE)	(2)
2.2L (5S-FE)	Bottom Of Radiator
Corolla, Paseo & Tercel	(3)

(1) - Two switches used. See Fig. 16.

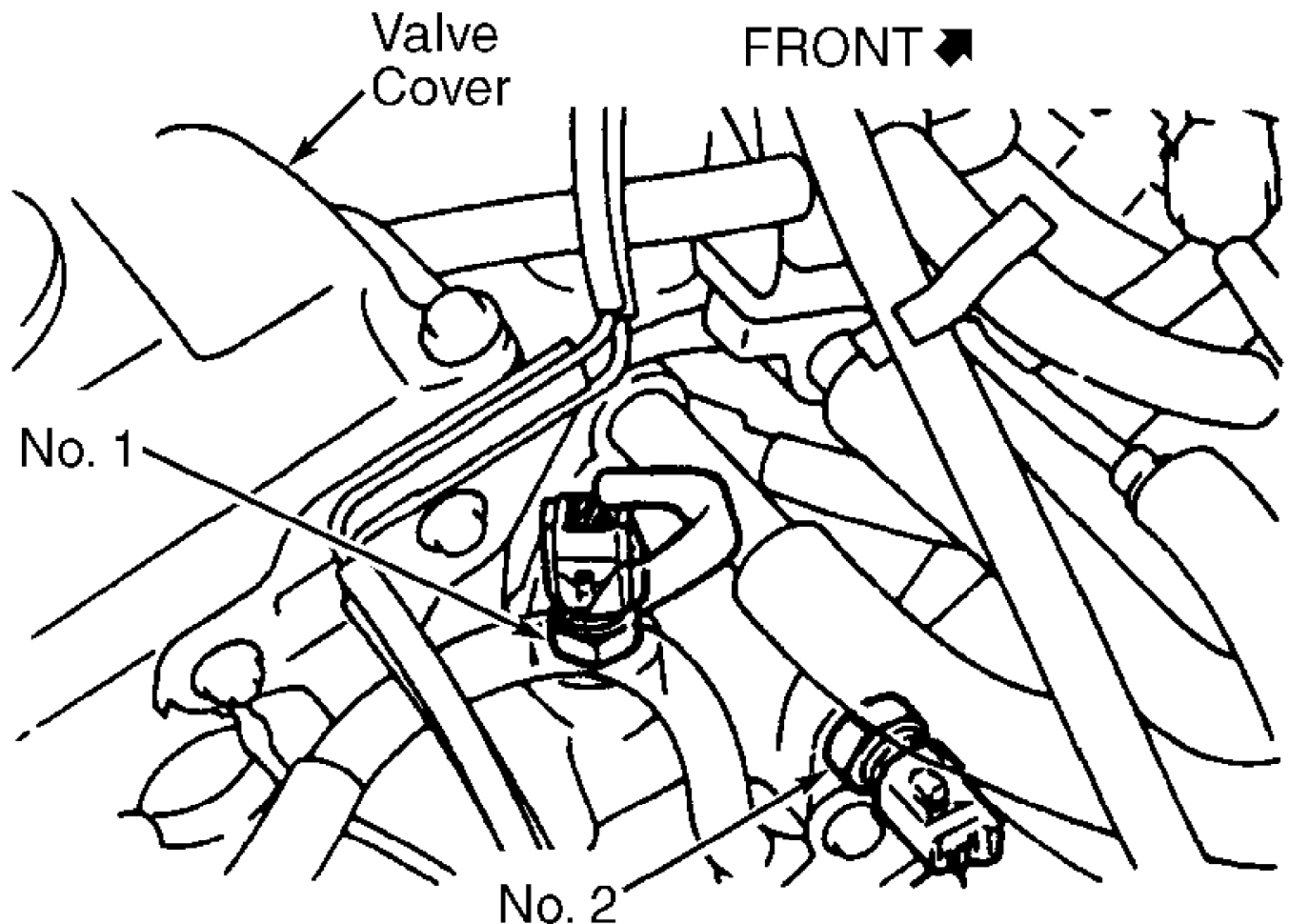
(2) - ECT switch is located in coolant housing below distributor and contains a single-pin connector with a Blue/Black wire.

(3) - ECT switch is located in coolant housing below distributor and contains a single-pin connector with a Light Green wire.

ECT SWITCH CONTINUITY SPECIFICATIONS

Application	Temperature °F (°C)
Avalon, Camry 3.0L & Sienna (1)	
Switch No. 1	
Continuity	Less Than 190 (88)
No Continuity	Greater Than 208 (98)
Switch No. 2	
Continuity	
Avalon	Greater Than 199 (93)
Camry & Sienna	201 (94)
No Continuity	Less Than 181 (83)
Camry 2.2L, Celica, Corolla, RAV4	
Continuity	Less Than 181°F (83°C)
No Continuity	Greater Than 199°F (93°C)
Paseo & Tercel	
Continuity	Less Than 181°F (83°C)
No Continuity	Greater Than 194°F (90°C)
Supra Turbo	
Continuity	Less Than 196°F (91°C)
No Continuity	Greater Than 212°F (100°C)

(1) - Two switches used. See Fig. 16.



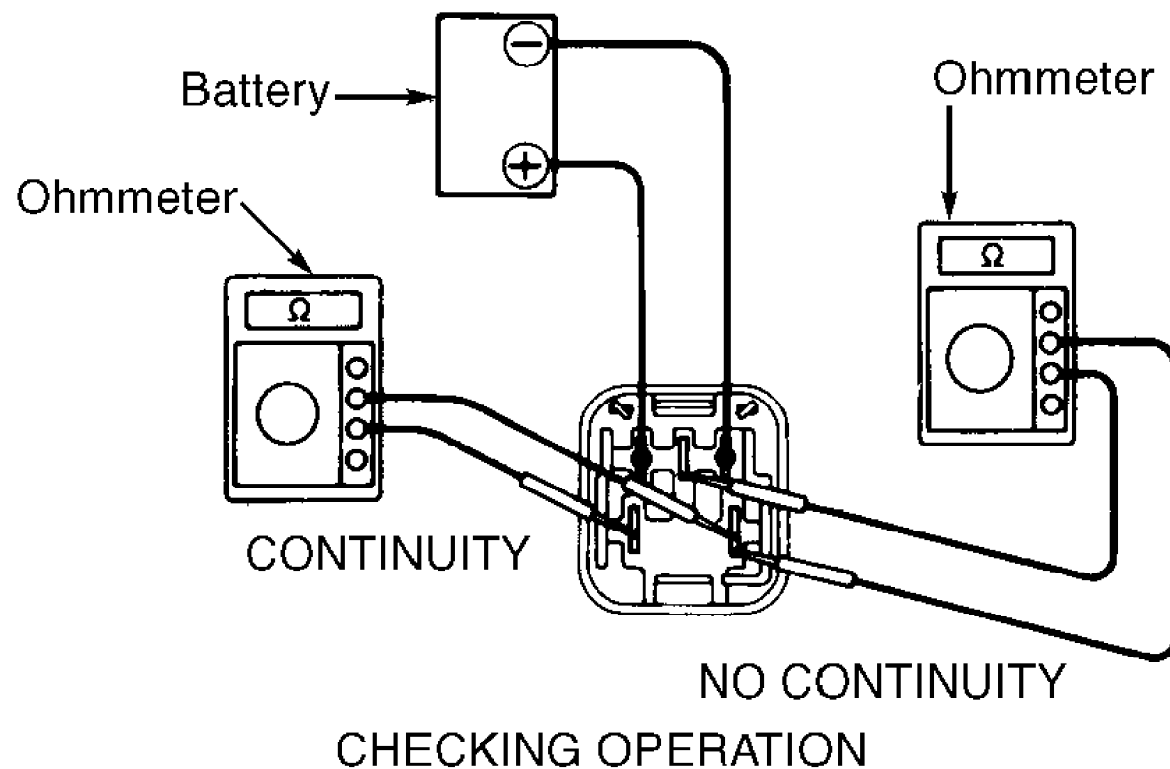
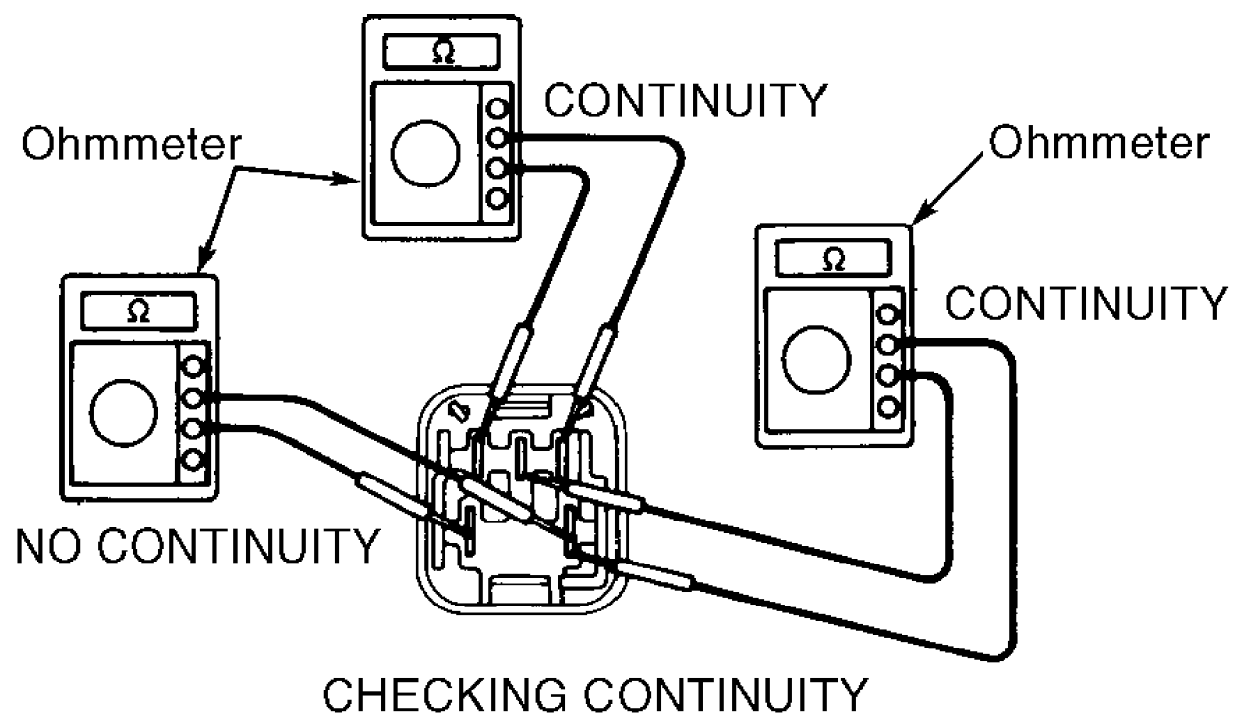
96C19192

Fig. 16: Identifying ECT Switch Locations (Avalon, Camry & Sienna)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Engine Main Relay (Avalon, Camry, Celica, Corolla, Paseo,
RAV4 & Tercel)

1) Disconnect negative battery cable. Remove engine main relay from fuse/relay box. See Figs. 1-7. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 17.

2) To check relay operation, connect battery voltage and ground to specified terminals of engine main relay. Using an ohmmeter, ensure continuity is as specified between specified terminals. See Fig. 17. Replace engine main relay if defective.



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Fig. 17: Testing Engine Main Relay (Avalon, Camry, Celica, Corolla, Paseo, RAV4 & Tercel)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

1) Disconnect electrical connector from radiator cooling fan. Connect battery and ammeter to electrical connector on radiator cooling fan.

2) Radiator cooling fan should operate smoothly and amperage draw should be within specification. See RADIATOR COOLING FAN AMPERAGE DRAW SPECIFICATIONS table.

3) Replace radiator cooling fan if fan fails to rotate smoothly or amperage draw is not within specification. Retest system.

RADIATOR COOLING FAN AMPERAGE DRAW SPECIFICATIONS

Application	Amps
Avalon	5.1-6.3
Camry 2.2L (5S-FE)	4.9-8.5
Camry 3.0L (1MZ-FE)	8.3-11.3
Celica	
1.8L (7A-FE)	5.8-7.4
2.2L (5S-FE)	5.7-7.7
Corolla	5.7-7.7
Paseo	
A/T	8.8-10.8
M/T	5.7-7.7
RAV4	10.9-13.9
Sienna (1)	
S1 & S2	8.6-11.5
T1 & T2	14-20
Supra Turbo (2JZ-GTE)	2.5-4.5
Tercel	
A/T	8.6-11.6
M/T	5.7-7.7

(1) - Identification marking is at top of fan shroud.

WIRING DIAGRAMS

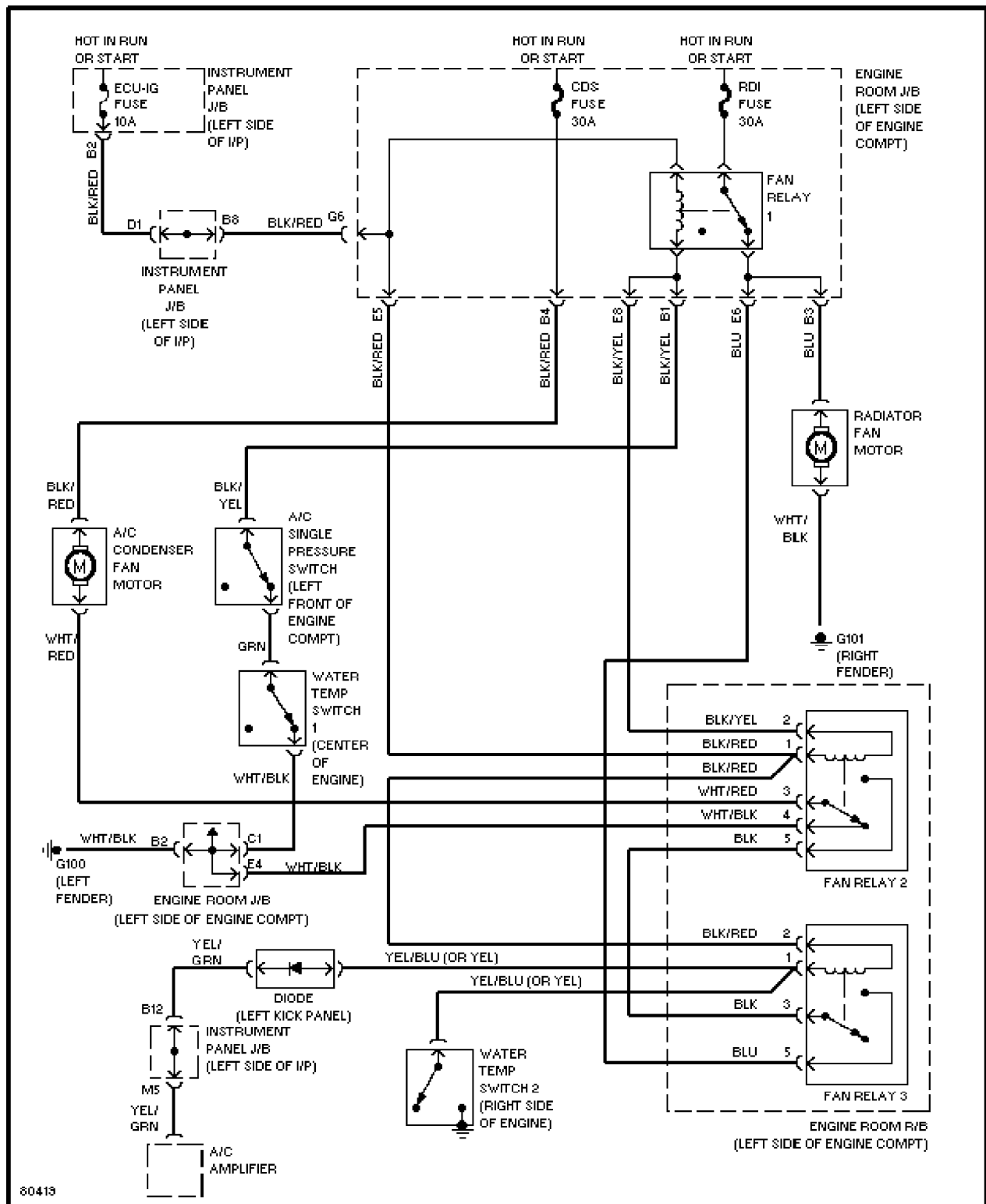
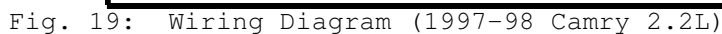
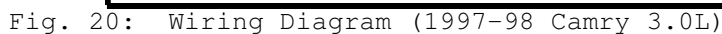


Fig. 18: Wiring Diagram (1997 Avalon)





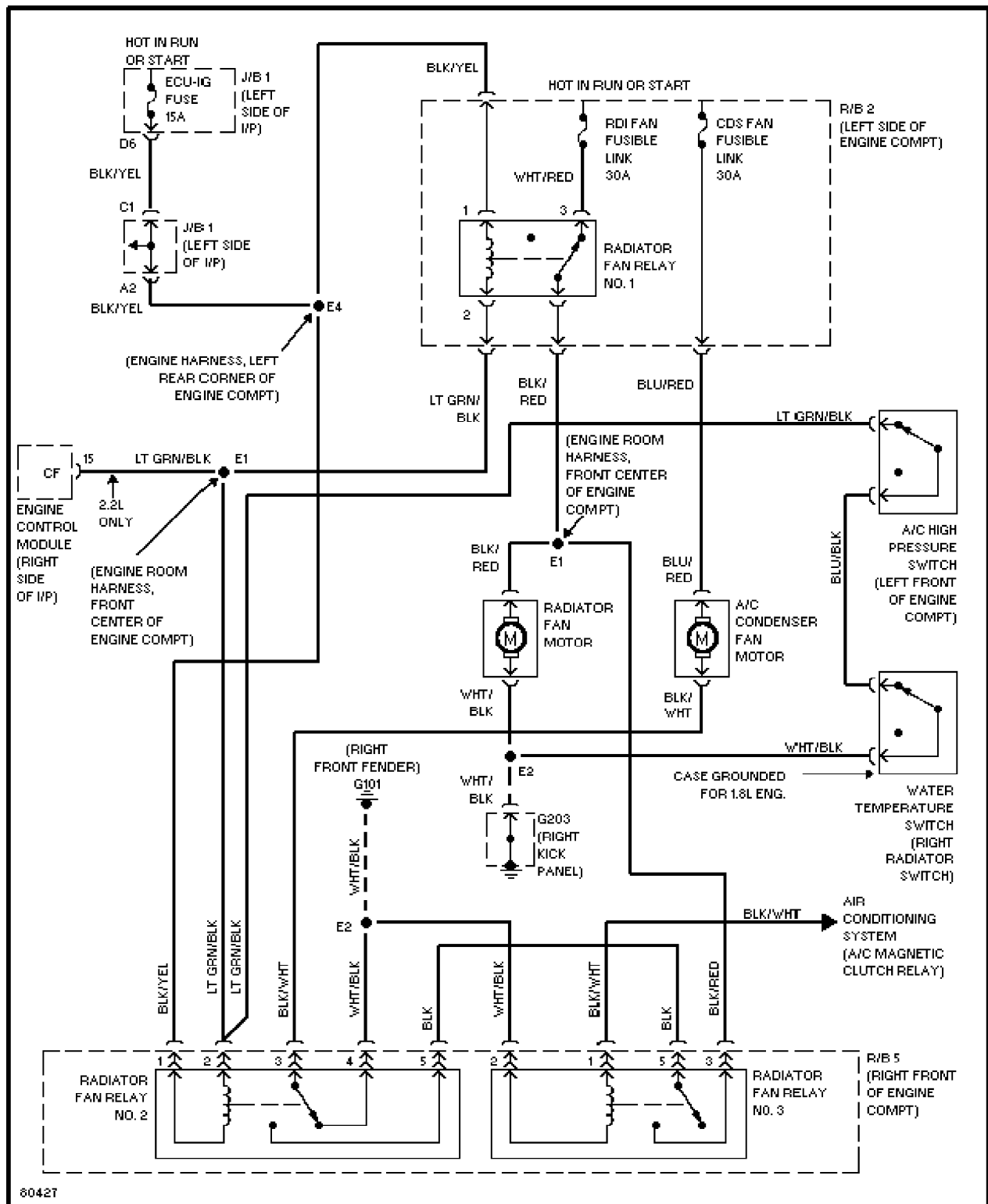
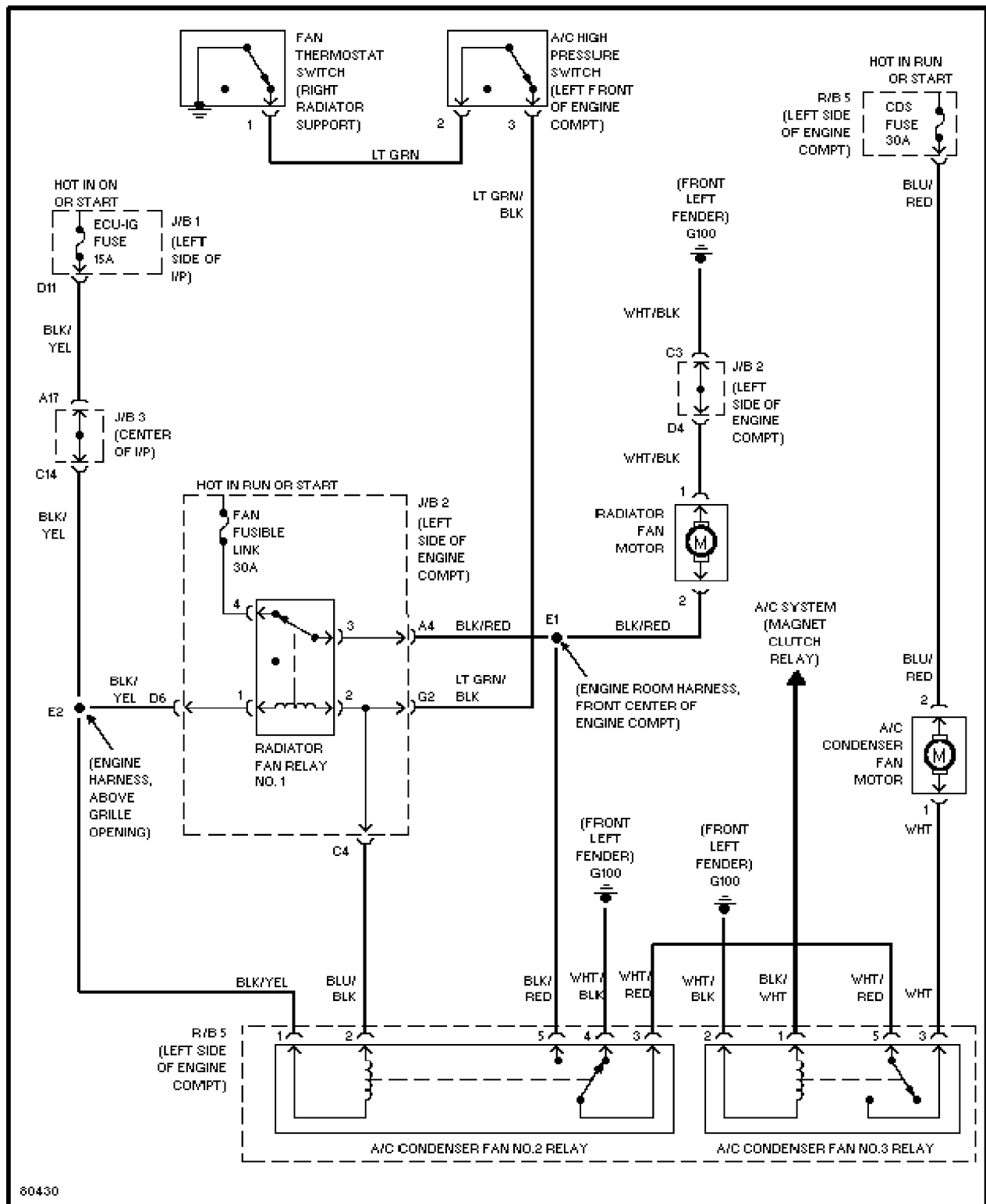


Fig. 21: Wiring Diagram (1997 Celica)



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Fig. 22: Wiring Diagram (1997 Corolla)

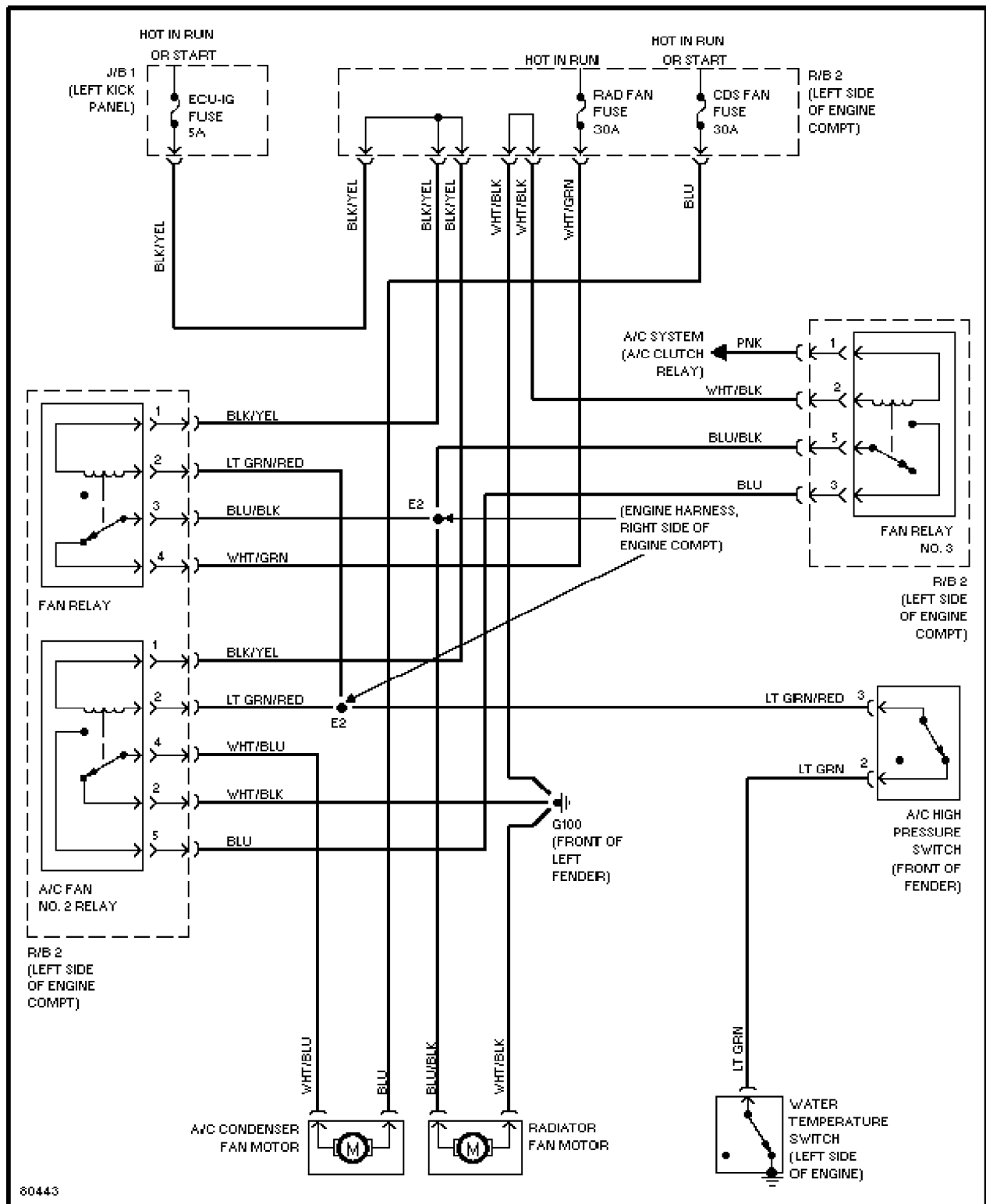


Fig. 23: Wiring Diagram (1997 Paseo)



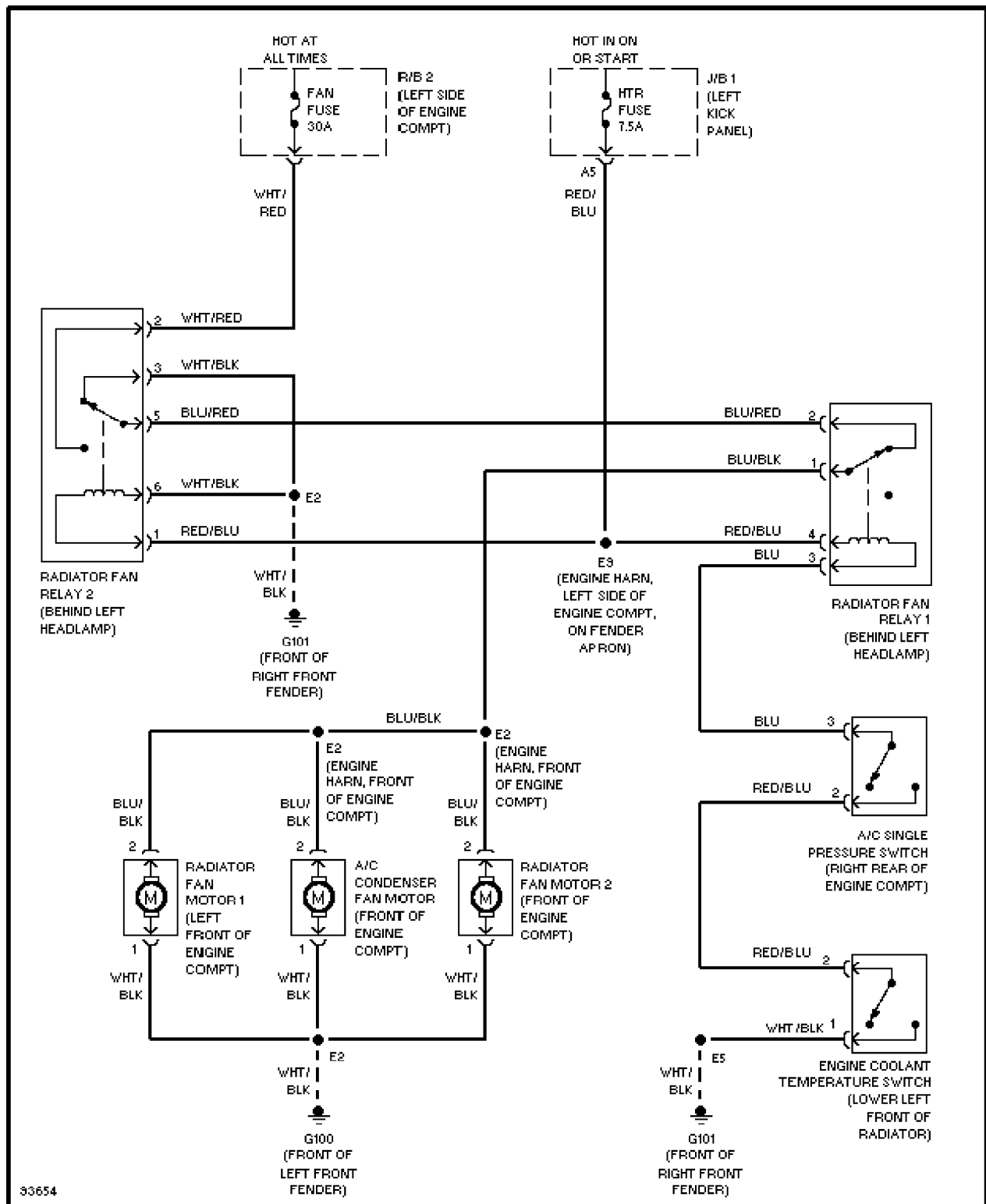


Fig. 25: Wiring Diagram (1997-98 Supra)

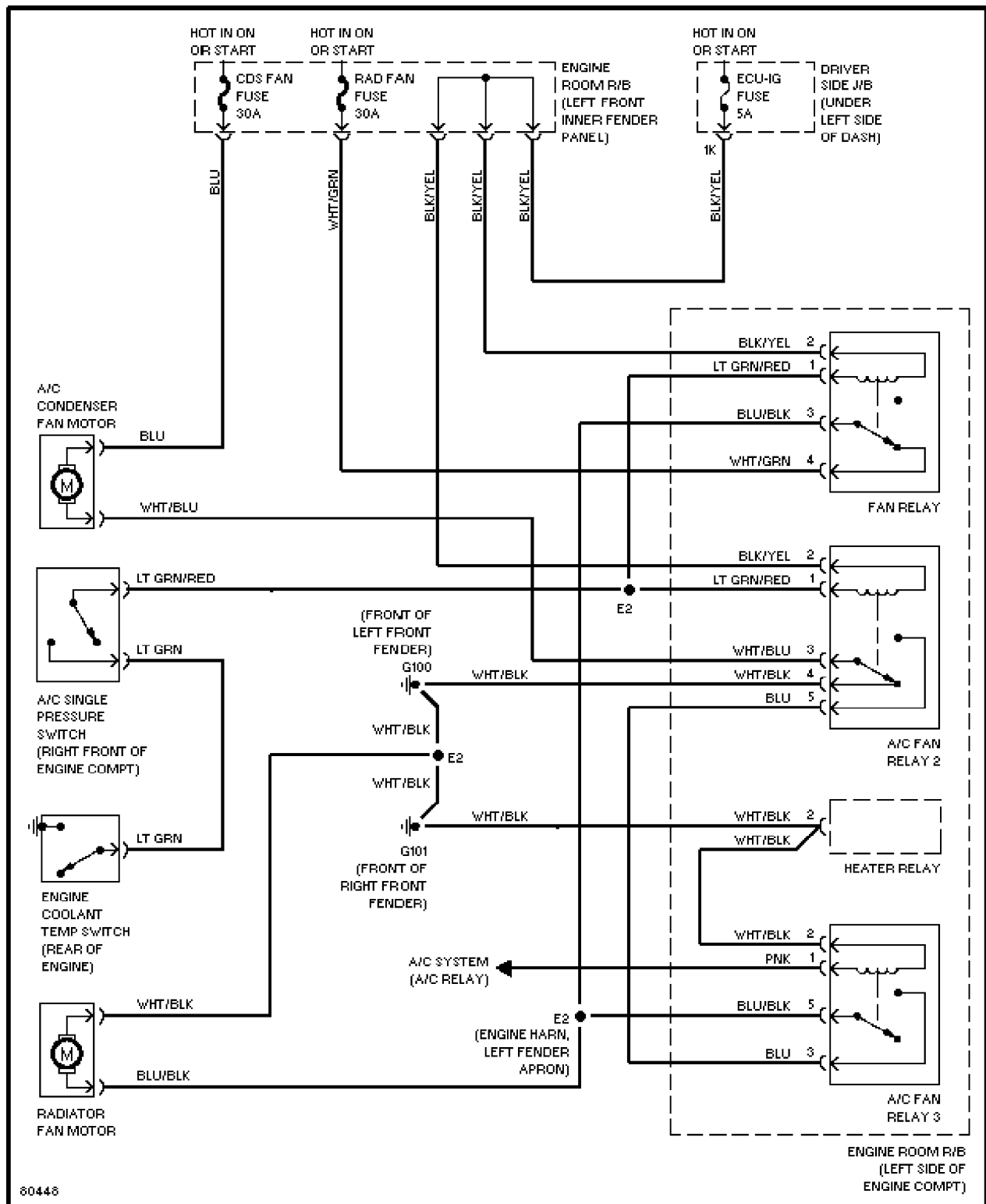
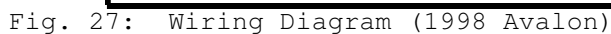
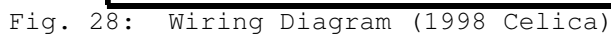


Fig. 26: Wiring Diagram (1997 Tercel)





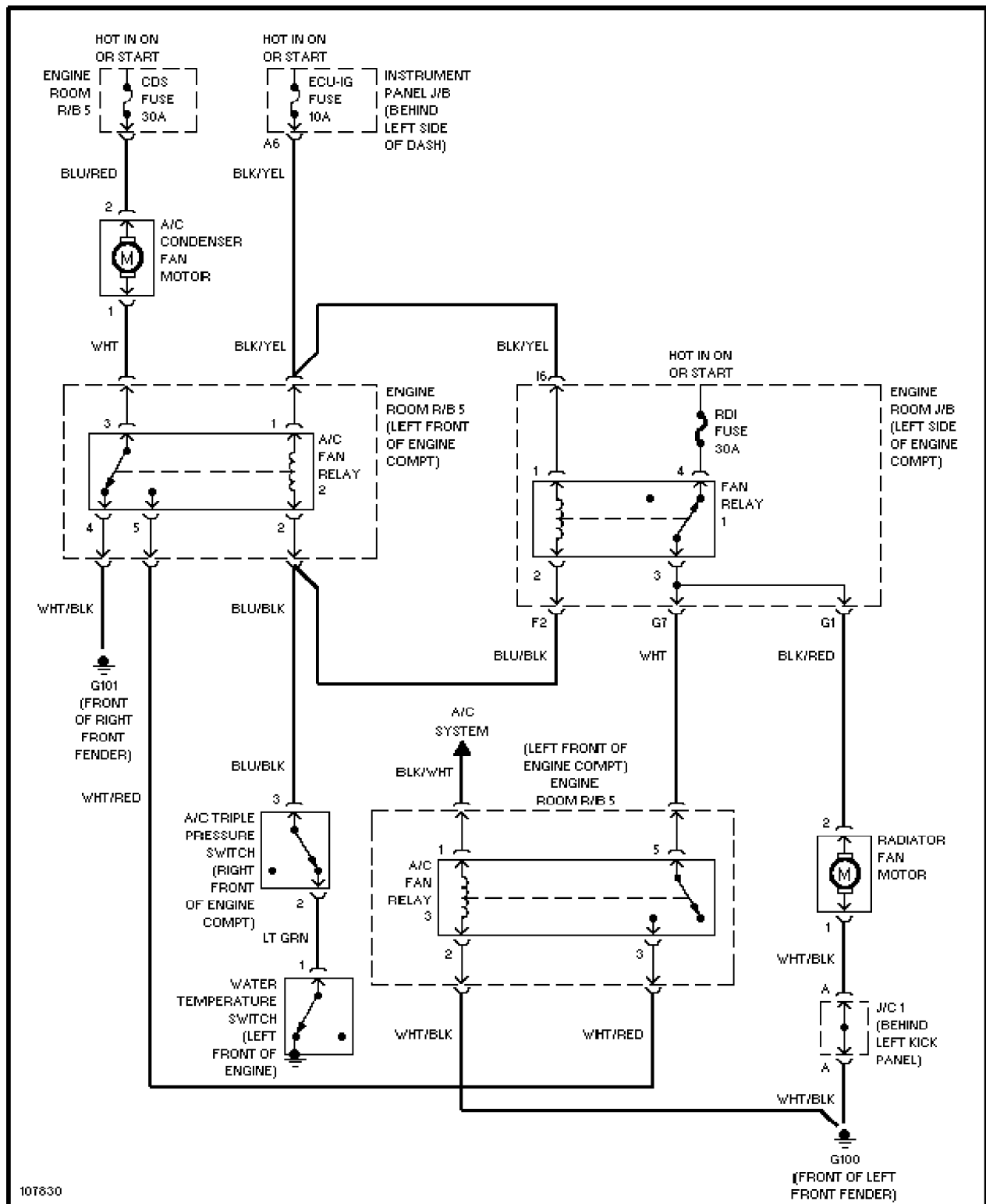
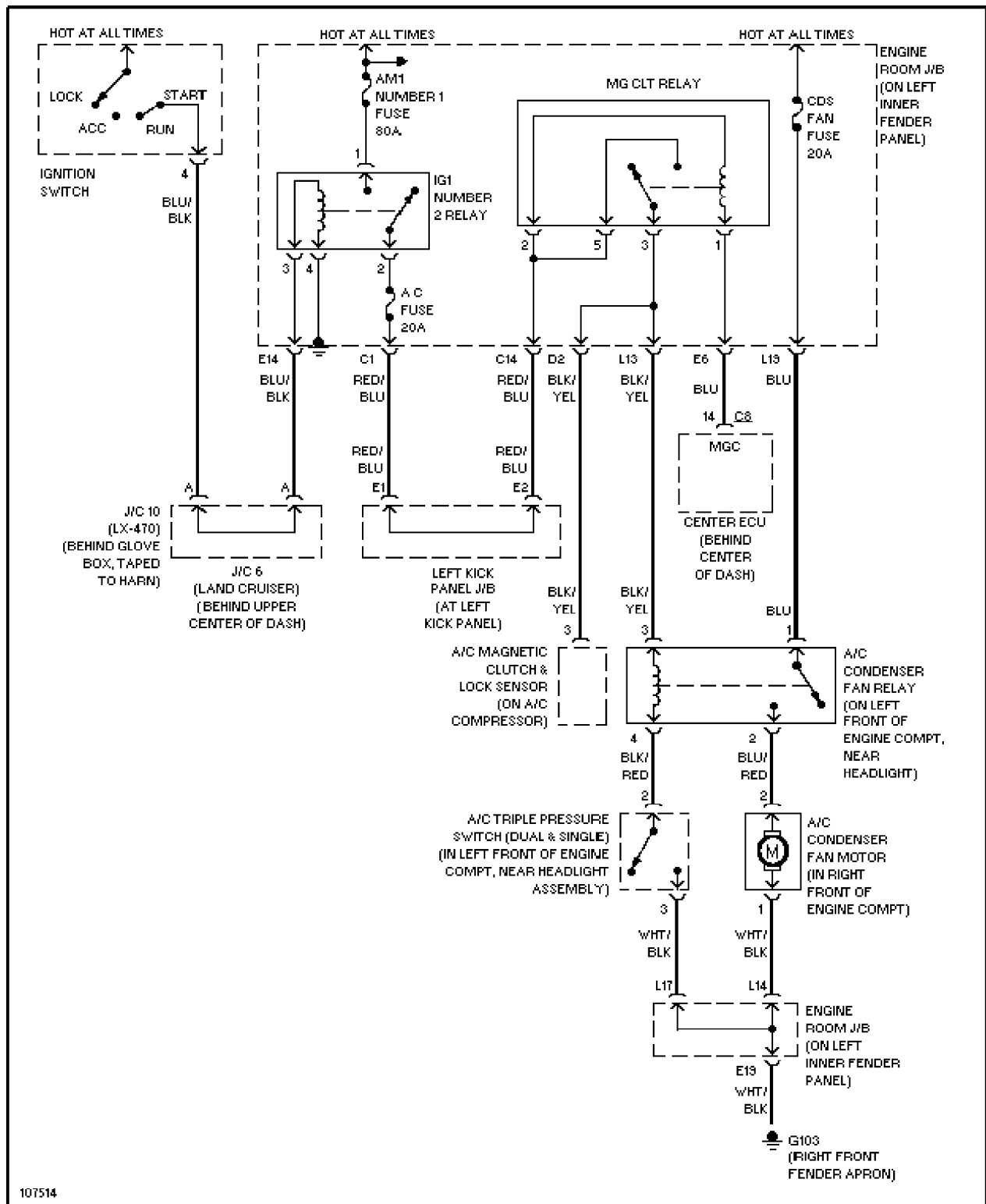


Fig. 29: Wiring Diagram (1998 Corolla)



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Fig. 30: Wiring Diagram (1998 Land Cruiser & LX470)

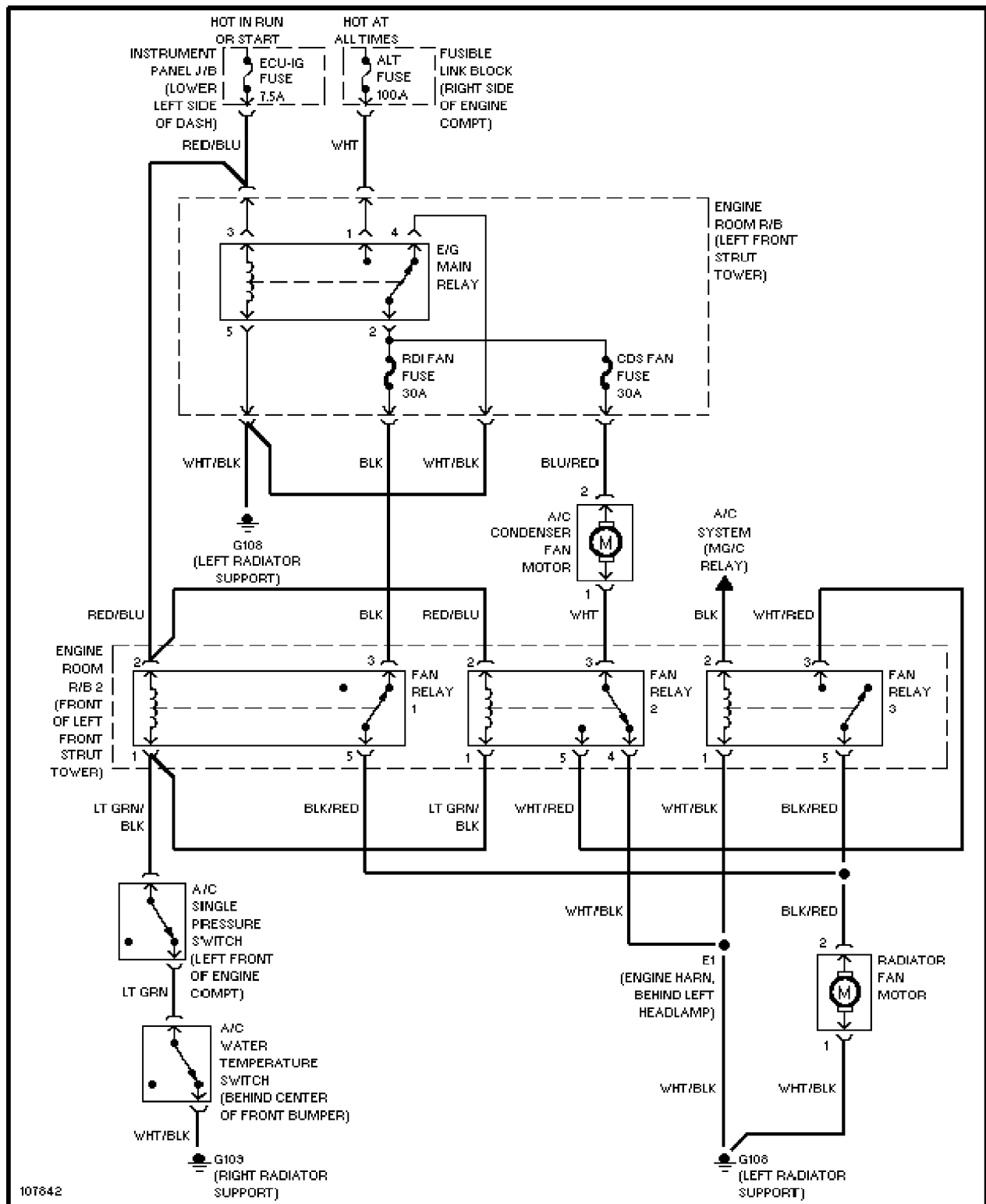
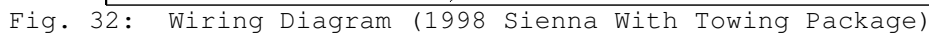


Fig. 31: Wiring Diagram (1998 RAV4)



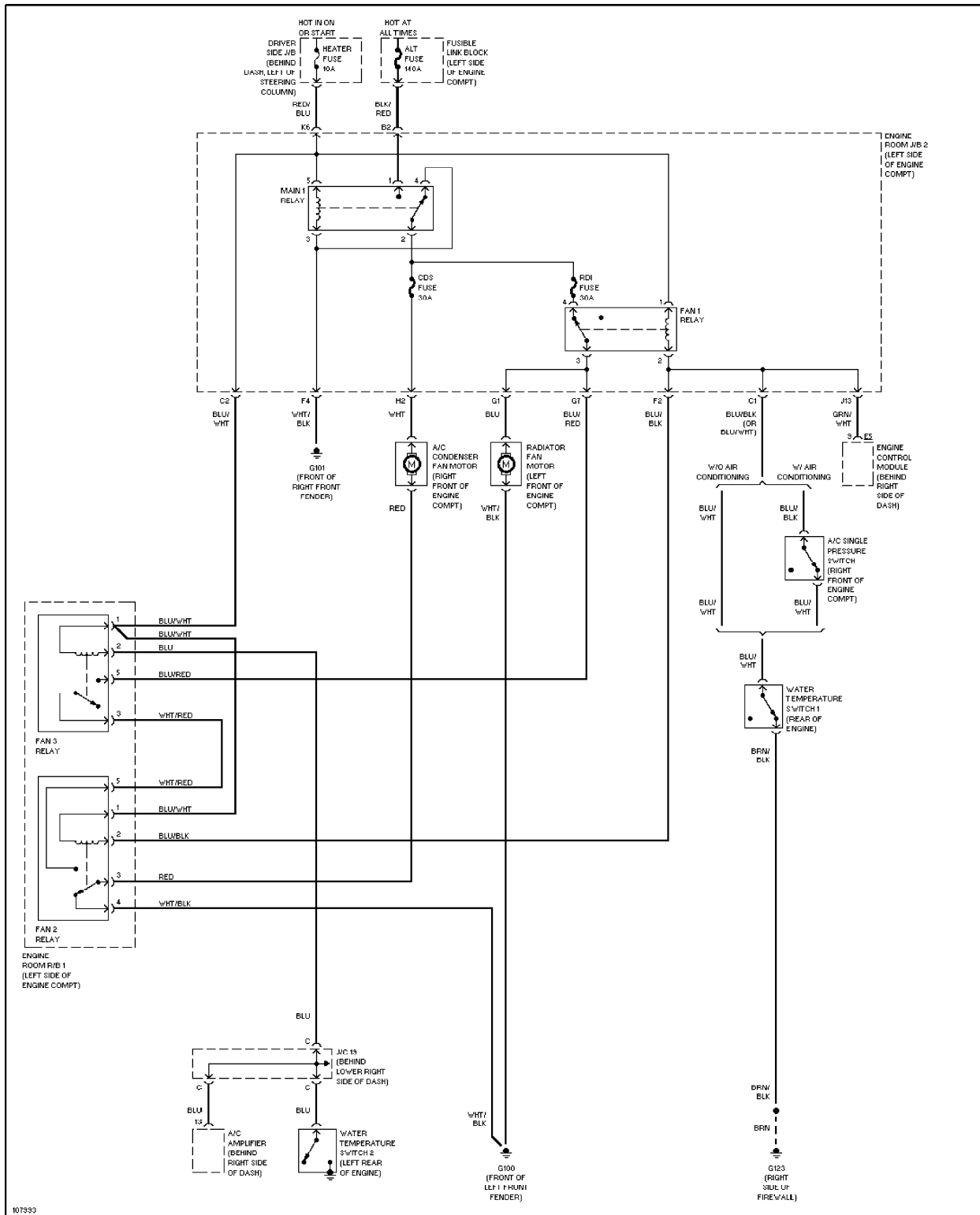


Fig. 33: Wiring Diagram (1998 Sienna Without Towing Package)