

MIRRORS - POWER

1998 Toyota Supra

1998 ACCESSORIES & EQUIPMENT
Toyota - Power Mirrors

Lexus; LX470
Toyota; Avalon, Camry, Celica, Corolla, Land Cruiser, RAV4,
Sienna, Supra, Tacoma, T100, 4Runner

* PLEASE READ THIS FIRST *

NOTE: For additional information on heated mirrors, see
REAR WINDOW & MIRROR DEFOGGERS article.

DESCRIPTION & OPERATION

Power mirrors are controlled by a dual control switch assembly, located on driver's door panel, instrument panel or instrument panel center console. Left/right control switch directs current to desired mirror. Horizontal/vertical control switch directs current to one of 2 motors located in mirror/motor assembly. Mirror and motors must be removed and serviced as an assembly.

TROUBLE SHOOTING

BOTH POWER MIRRORS INOPERATIVE

Check fuse for power mirror switch. Check power mirror switch. See POWER MIRROR SWITCH under COMPONENT TESTS. Check power mirror motor(s). See POWER MIRROR MOTOR under COMPONENT TESTS. Check ground circuit and wiring harness. See WIRING DIAGRAMS.

LEFT OR RIGHT POWER MIRROR INOPERATIVE

Check power mirror switch. See POWER MIRROR SWITCH under COMPONENT TESTS. Check power mirror motor(s). See POWER MIRROR MOTOR under COMPONENT TESTS. Check ground circuit and wiring harness. See WIRING DIAGRAMS.

UP/DOWN OR LEFT/RIGHT FUNCTION INOPERATIVE

Check power mirror motor(s). See POWER MIRROR MOTOR under COMPONENT TESTS. Check power mirror switch. See POWER MIRROR SWITCH under COMPONENT TESTS. Check ground circuit and wiring harness. See WIRING DIAGRAMS.

COMPONENT TESTS

POWER MIRROR SWITCH

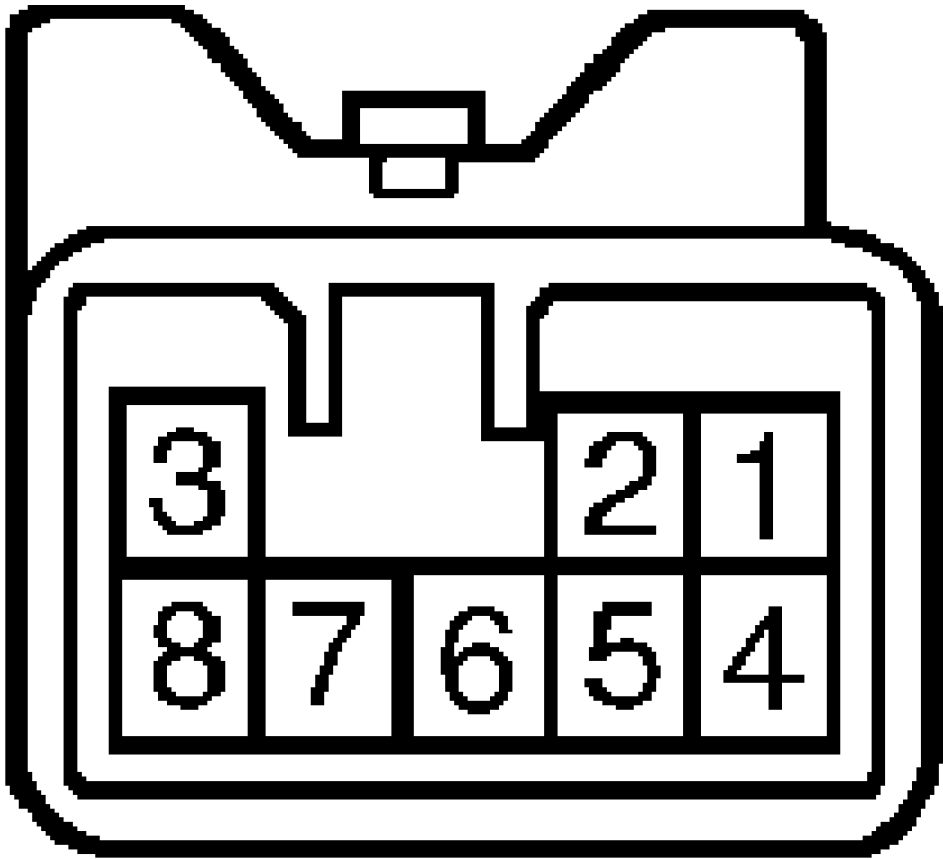
NOTE: Mirror motor connectors may vary in configuration from vehicle to vehicle of the same model.

Remove power mirror switch. Using ohmmeter, check continuity between appropriate mirror switch terminals. Continuity should exist between specified terminals. See appropriate POWER MIRROR SWITCH CONTINUITY TEST table. See Figs. 1-23. If switch fails any test, replace switch.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (AVALON)

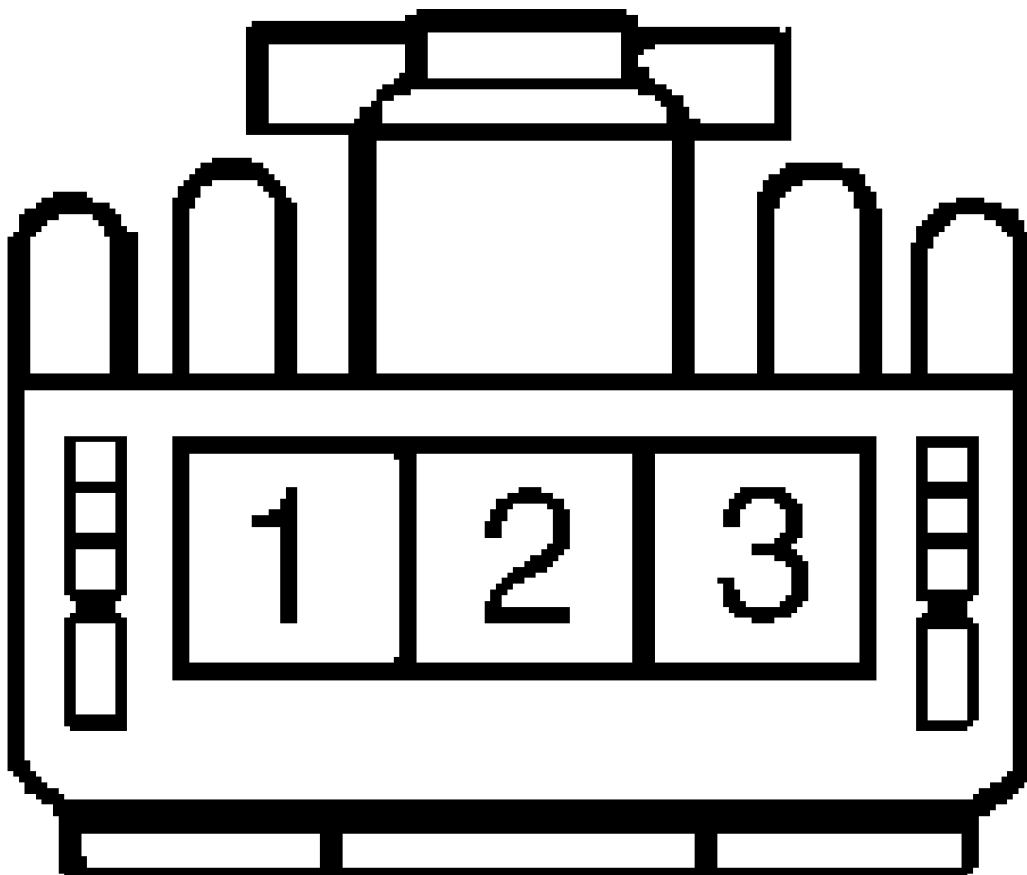
Application	(1) Terminals No.
Switch In Left Position	
Up	2 & 6; 1, 3 & 8
Down	3 & 6; 1, 2 & 8
Left	1, 3 & 6; 2 & 8
Right	1, 2 & 6; 3 & 8
Switch In Right Position	
Up	2 & 5; 1, 3 & 7
Down	3 & 5; 1, 2 & 7
Left	1, 3 & 5; 2 & 7
Right	3 & 7; 1, 2 & 5

(1) - Continuity should exist between specified terminals.
See Figs. 1 & 2.



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Fig. 1: Identifying Power Mirror Switch Connector Terminals (Avalon)



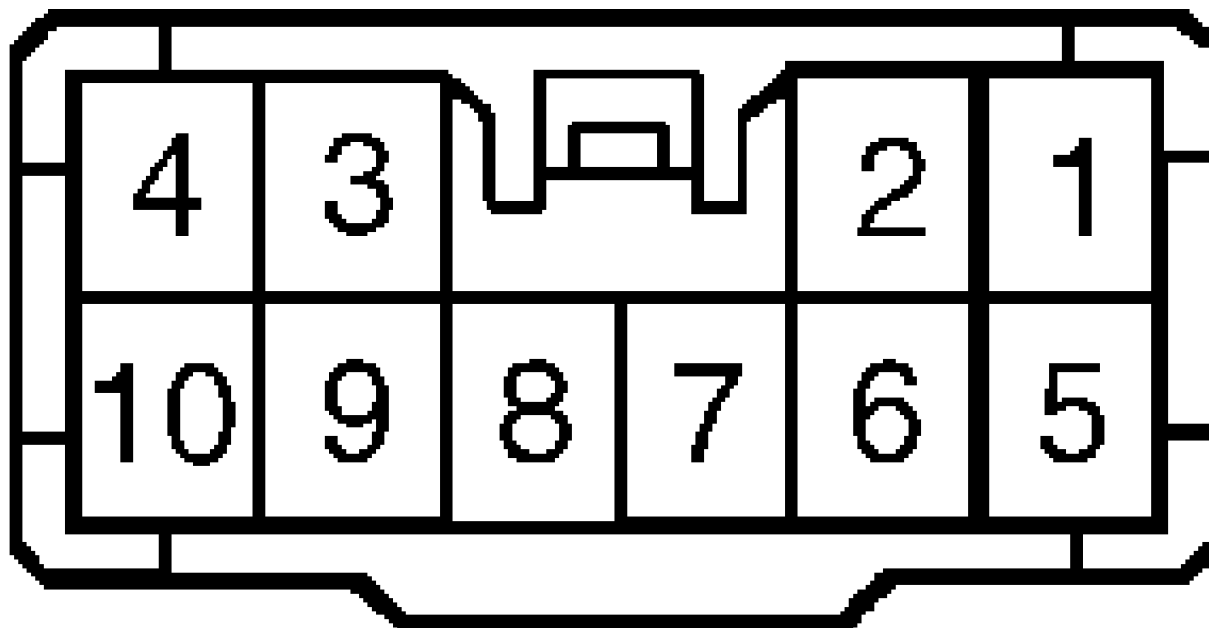
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Fig. 2: Identifying Power Mirror Motor Connector Terminals (Avalon)

POWER MIRROR SWITCH CONTINUITY TEST (CAMRY) TABLE

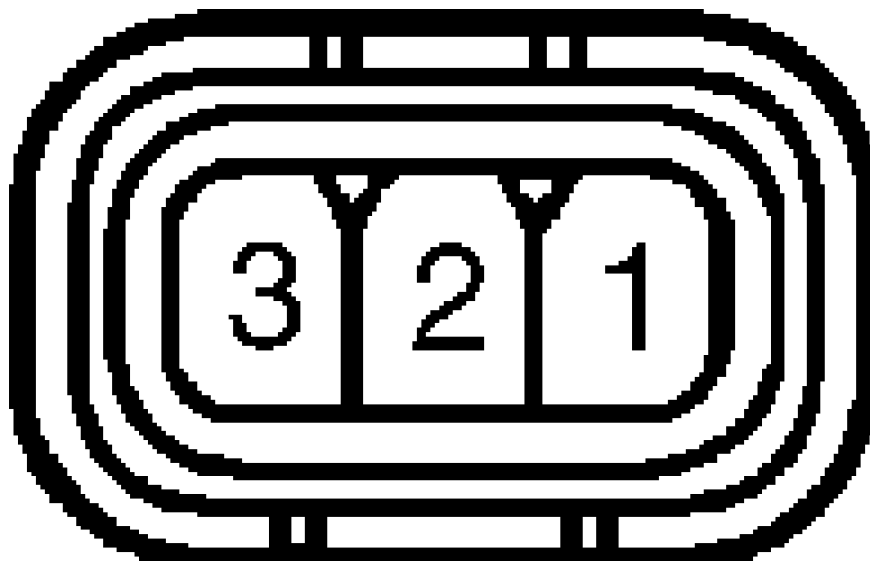
Application	(1) Terminals No.
Switch In Left Position	
Up	1 & 9; 6 & 10
Down	1 & 10; 6 & 9
Left	5 & 9; 6 & 10
Right	5 & 10; 6 & 9
Switch In Right Position	
Up	6 & 10; 7 & 9
Down	6 & 9; 7 & 10
Left	6 & 10; 8 & 9
Right	6 & 9; 8 & 10

(1) - Continuity should exist between specified terminals.
See Figs. 3-6.



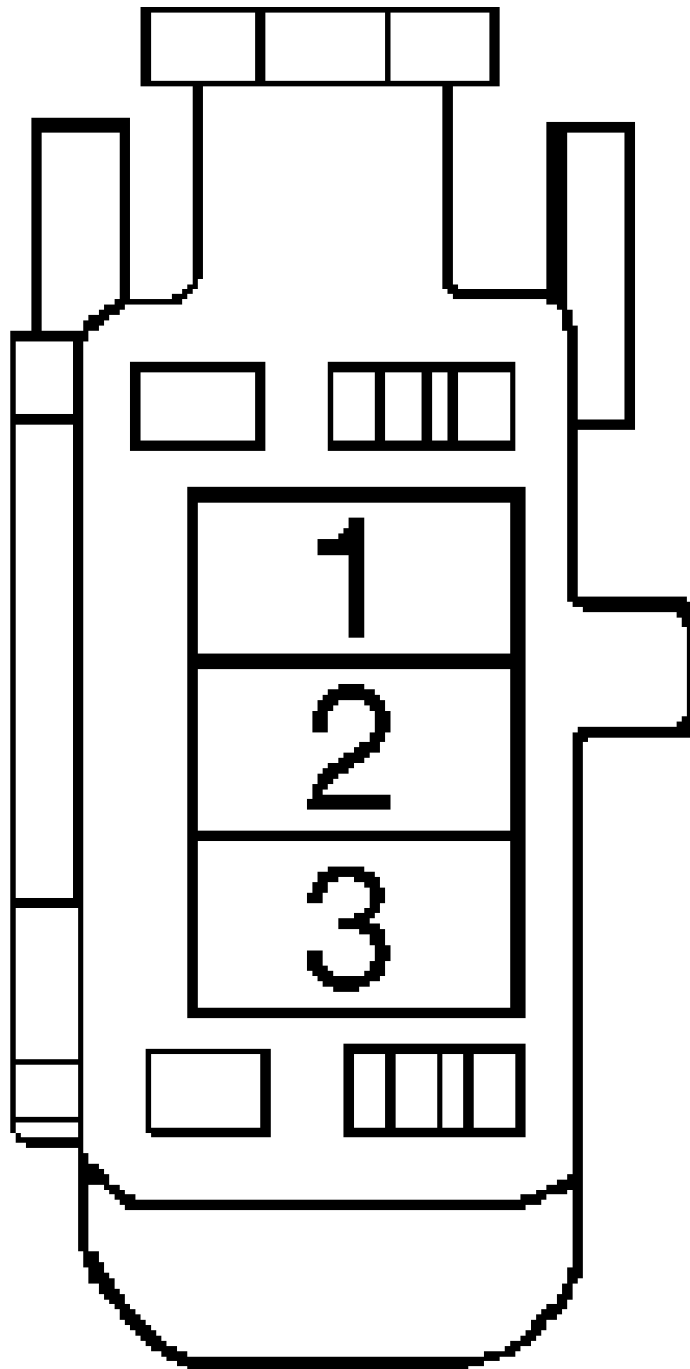
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Fig. 3: Identifying Power Mirror Switch Connector Terminals (Camry)
Courtesy of Toyota Motor Mfg. U.S.A.



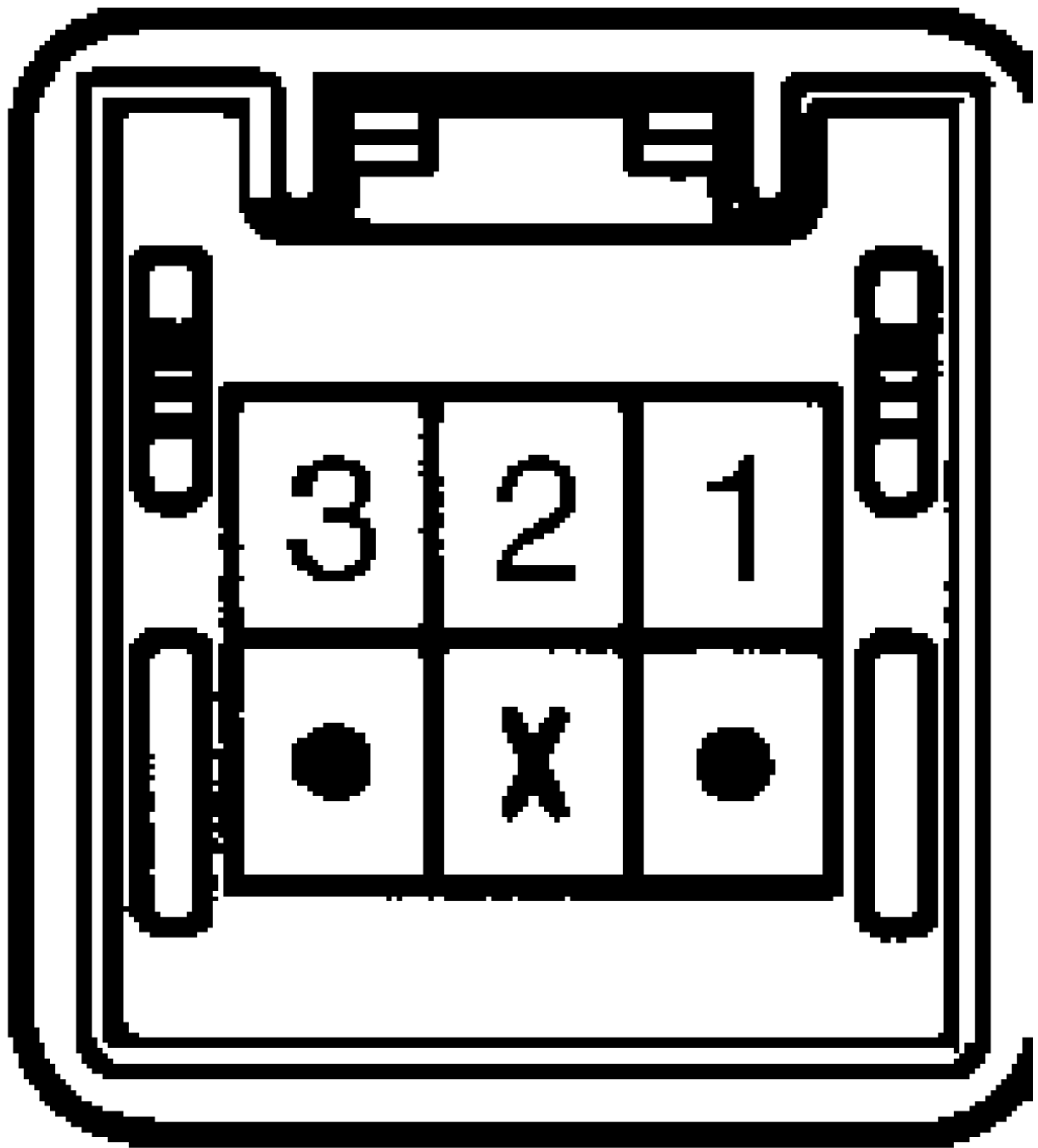
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Fig. 4: Identifying Power Mirror Motor Connector Terminals (Camry -
Mirror Motor Without Heater - Toyota Motor Corp. Japan)
Courtesy of Toyota Motor Mfg. U.S.A.



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Fig. 5: Identifying Power Mirror Motor Connector Terminals (Camry - Mirror Motor Without Heater)
Courtesy of Toyota Motor Mfg. U.S.A.



97G11235

Fig. 6: Identifying Power Mirror Motor Connector Terminals (Camry - Mirror Motor With Heater)
Courtesy of Toyota Motor Mfg. U.S.A.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (CELICA WITH POWER WINDOWS)

Application	(1) Terminals No.
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Switch In Left Position	
Up	1 & 10; 3 & 4
Down	1 & 3; 4 & 10
Left	1 & 6; 3 & 4
Right	1 & 3; 4 & 6
Switch In Right Position	
Up	1 & 6; 3 & 4
Down	1 & 3; 4 & 6
Left	1 & 2; 3 & 4
Right	1 & 3; 2 & 4

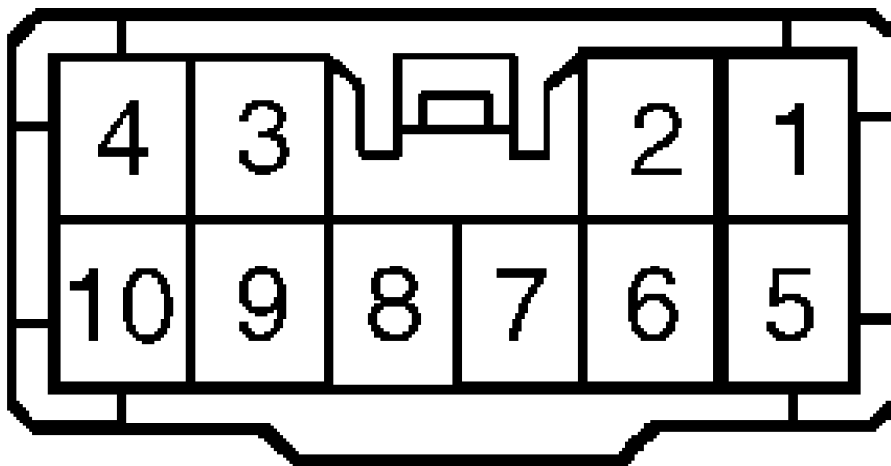
(1) - Continuity should exist between specified terminals.
See Figs. 7 & 8.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (CELICA W/OUT POWER WINDOWS)

Application	(1) Terminals No.
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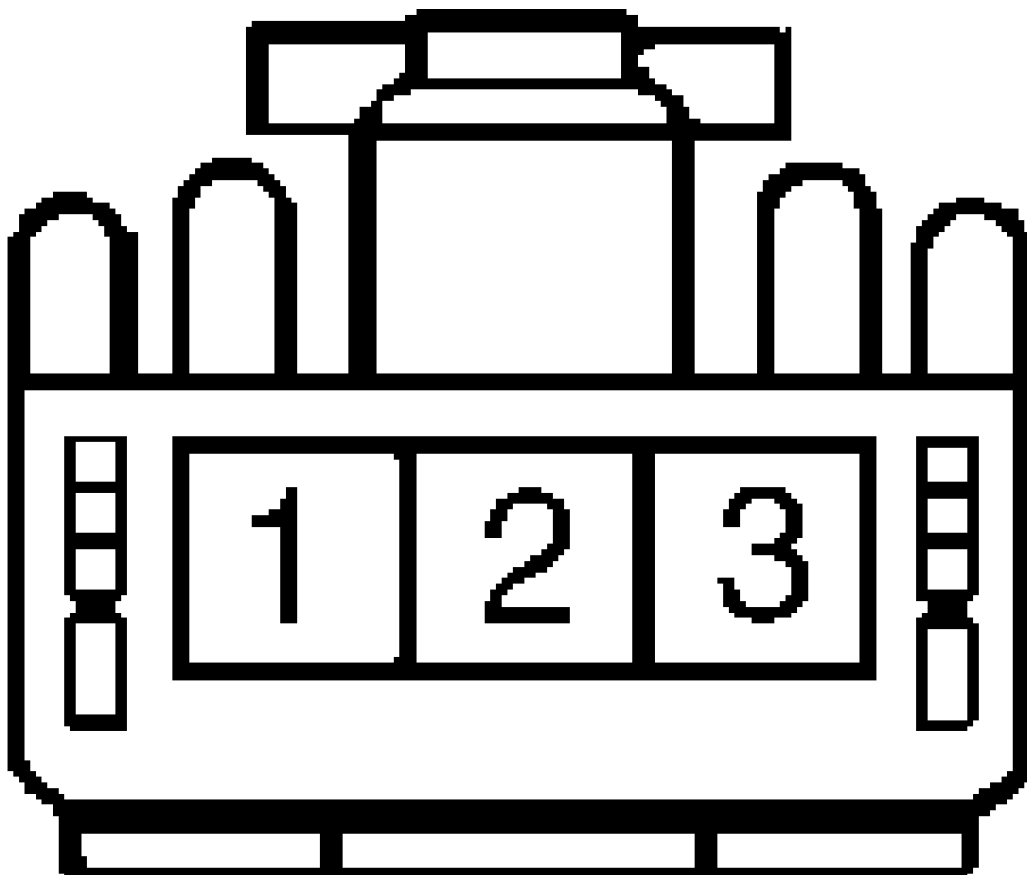
Switch In Left Position	
Up	2 & 3; 7 & 8
Down	2 & 7; 3 & 8
Left	1 & 3; 7 & 8
Right	1 & 7; 3 & 8
Switch In Right Position	
Up	3 & 10; 7 & 8
Down	3 & 8; 7 & 10
Left	3 & 5; 7 & 8
Right	3 & 8; 5 & 7

(1) - Continuity should exist between specified terminals.
See Figs. 7 & 8.



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Fig. 7: Power Mirror Switch Connector Terminals (Celica & Corolla)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 8: Power Mirror Motor Connector Terminals (Celica & Corolla)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (COROLLA)

Application	(1) Terminals No.
Switch In Left Position	
Up	1 & 9; 6 & 10
Down	1 & 10; 6 & 9
Left	5 & 9; 6 & 10
Right	5 & 10; 6 & 9
Switch In Right Position	
Up	6 & 10; 7 & 9
Down	6 & 9; 7 & 10
Left	6 & 10; 8 & 9
Right	6 & 9; 8 & 10

(1) - Continuity should exist between specified terminals.
See Figs. 7 & 8.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (LAND CRUISER & LEXUS LX470)

Application	(1) Terminals No.
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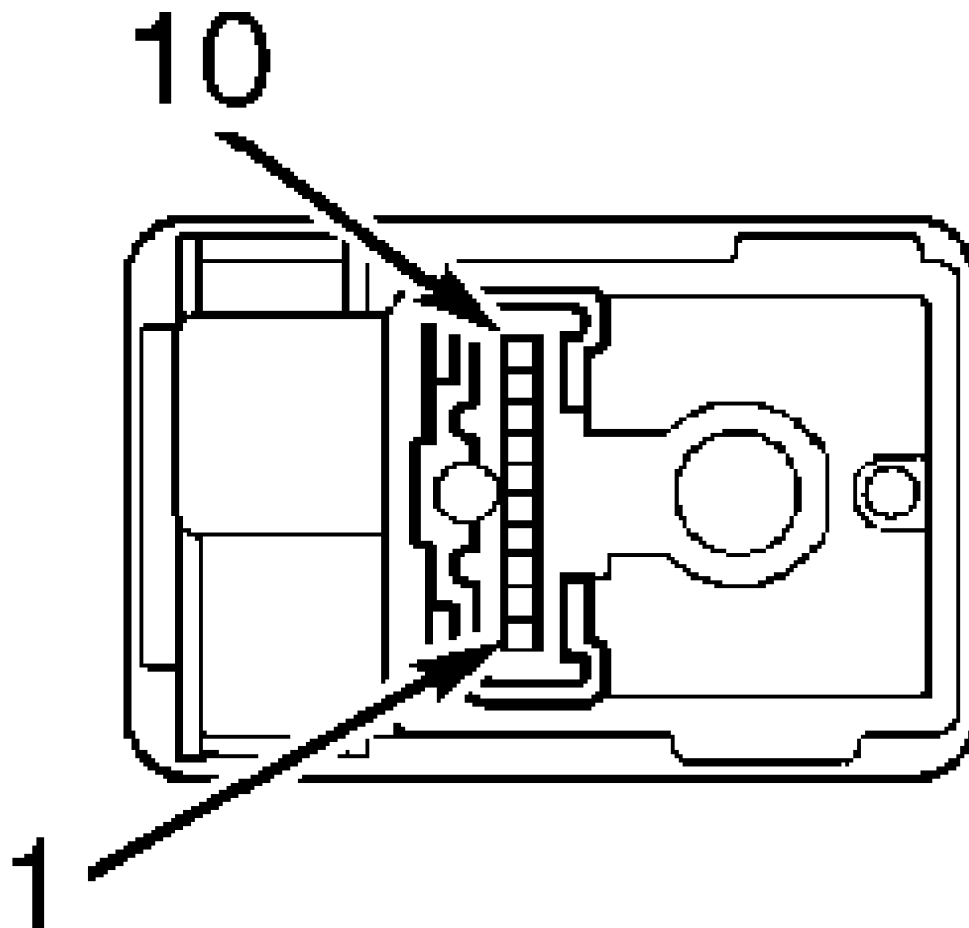
Switch In Left Position

Up	3 & 4; 7 & 8
Down	3 & 8; 4 & 7
Left	4 & 9; 7 & 8
Right	4 & 7; 8 & 9

Switch In Right Position

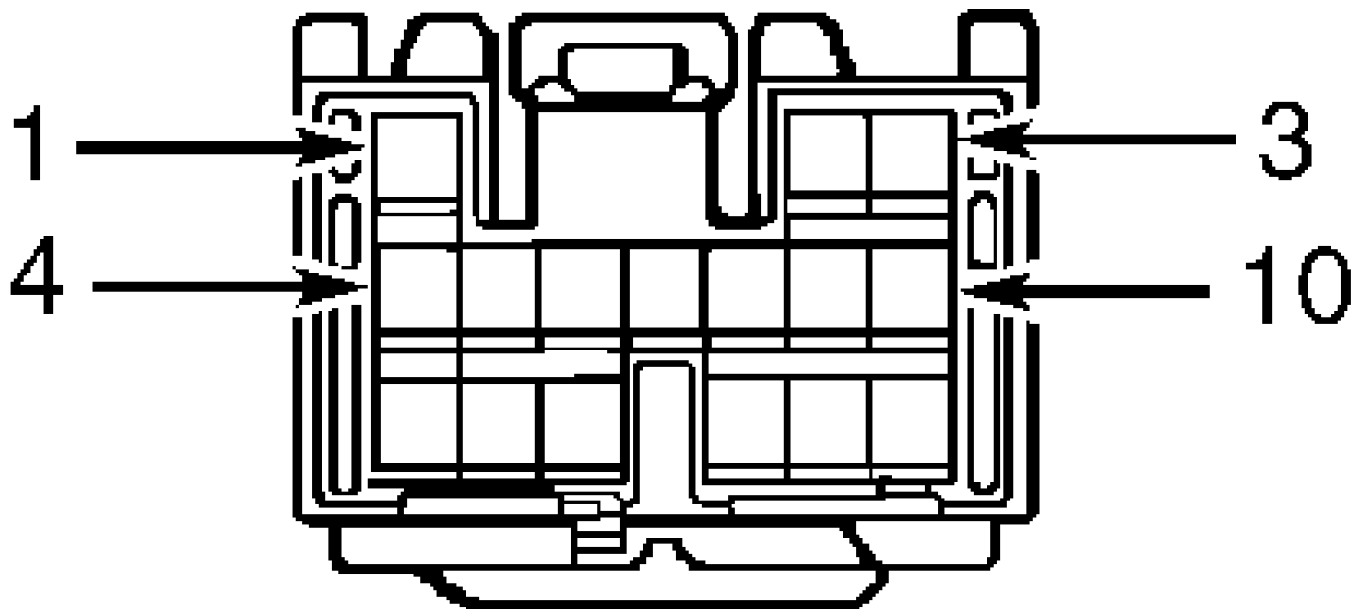
Up	2 & 4; 1, 7 & 8
Down	4 & 7; 1, 2 & 8
Left	4 & 10; 1, 7 & 8
Right	4 & 7; 1, 8 & 10

(1) - Continuity should exist between specified terminals.
See Figs. 9 & 10.



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Fig. 9: Power Mirror Switch Connector Terminals (Land Cruiser & Lexus LX470)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



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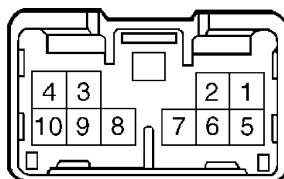
Fig. 10: Power Mirror Motor Connector Terminals (Land Cruiser & Lexus LX470)

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

POWER MIRROR SWITCH CONTINUITY TEST (RAV4) TABLE

Application	(1) Terminals No.
Switch In Left Position	
Up	1 & 9; 6 & 10
Down	1 & 10; 6 & 9
Left	5 & 9; 6 & 10
Right	5 & 10; 6 & 9
Switch In Right Position	
Up	6 & 10; 7 & 9
Down	6 & 9; 7 & 10
Left	6 & 10; 8 & 9
Right	6 & 9; 8 & 10

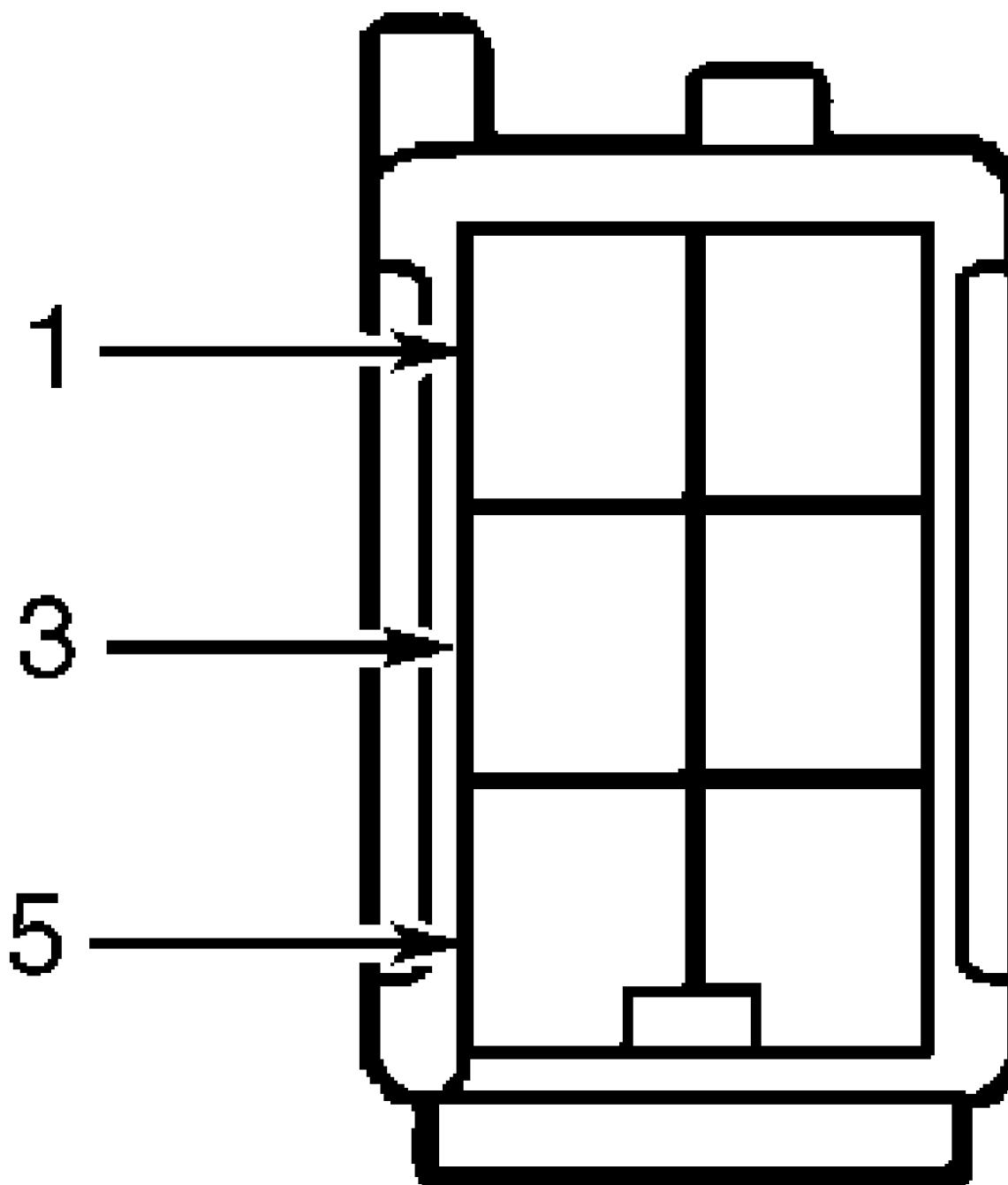
(1) - Continuity should exist between specified terminals.
See Figs. 11 & 12.



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Fig. 11: Identifying Power Mirror Switch Connector Terminals (RAV4)

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

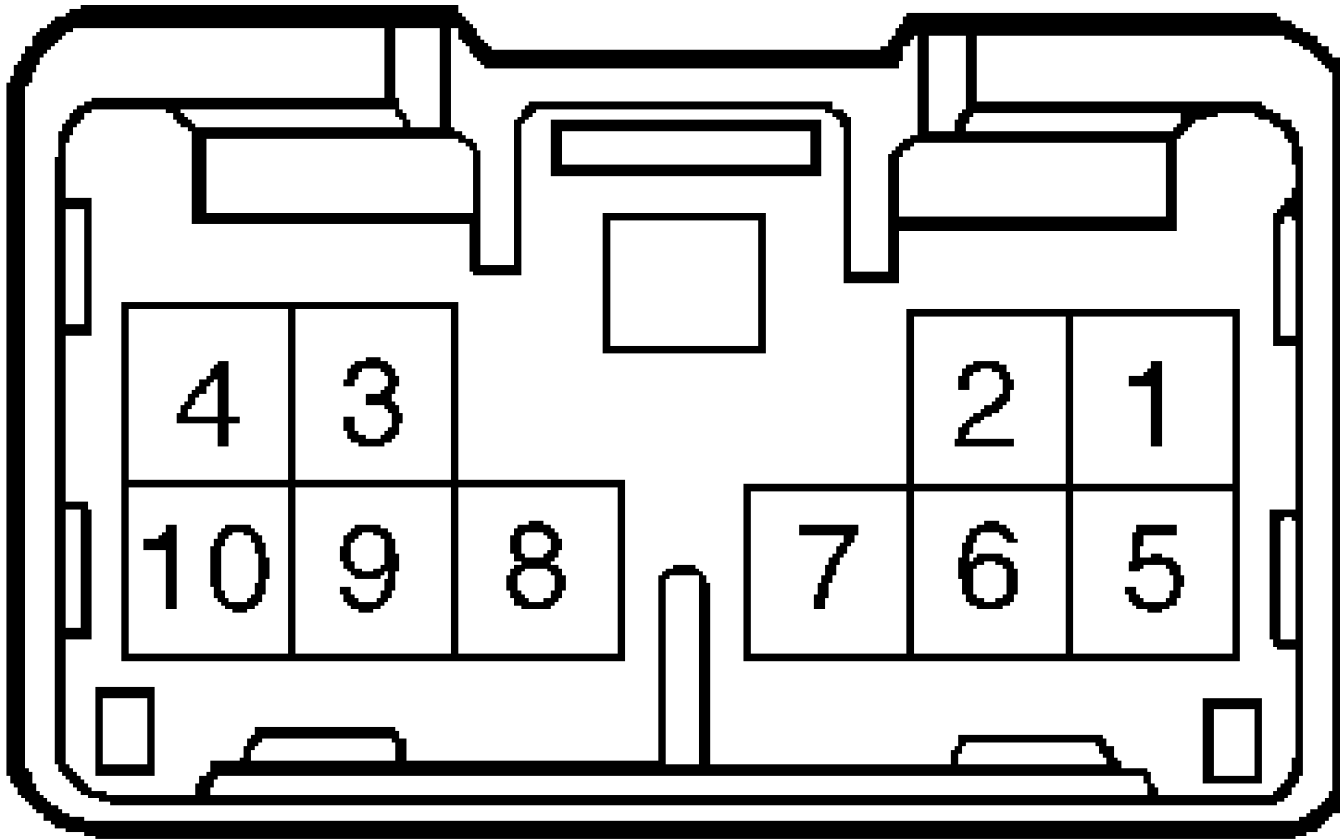


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Fig. 12: Identifying Power Mirror Motor Connector Terminals (RAV4)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Application	(1) Terminals No.
Switch In Left Position	
Up	1 & 9; 6 & 10
Down	1 & 10; 6 & 9
Left	5 & 9; 6 & 10
Right	5 & 10; 6 & 9
Switch In Right Position	
Up	6 & 10; 7 & 9
Down	6 & 9; 7 & 10
Left	6 & 10; 8 & 9
Right	6 & 9; 8 & 10

(1) - Continuity should exist between specified terminals.
See Figs. 13-15.



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Fig. 13: Identifying Power Mirror Switch Connector Terminals (Sienna)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

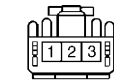
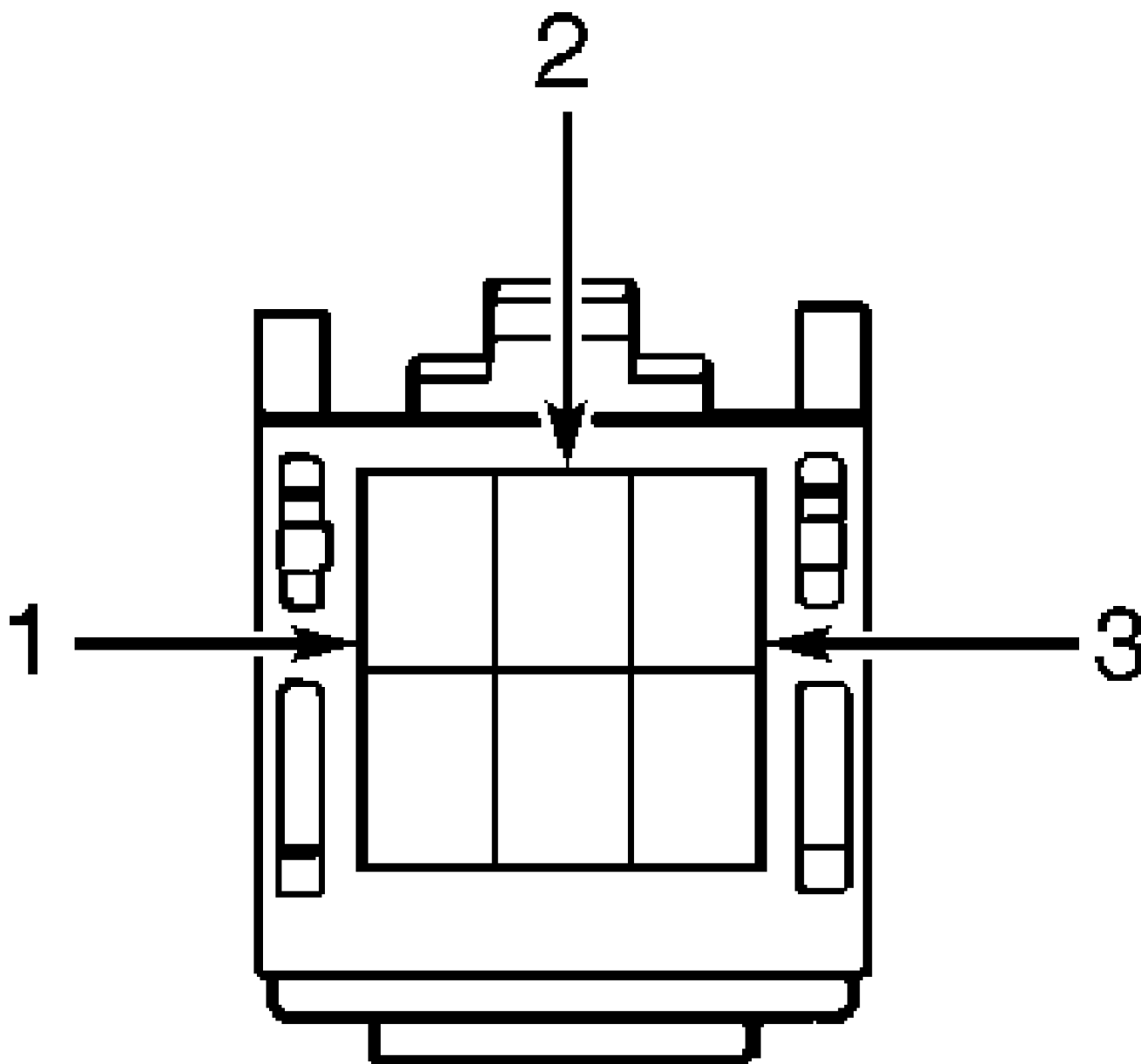


Fig. 14: Identifying Power Mirror Motor Connector Terminals (Sienna -
Mirror Motor Without Heater)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 15: Identifying Power Mirror Motor Connector Terminals (Sienna - Mirror Motor With Heater)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

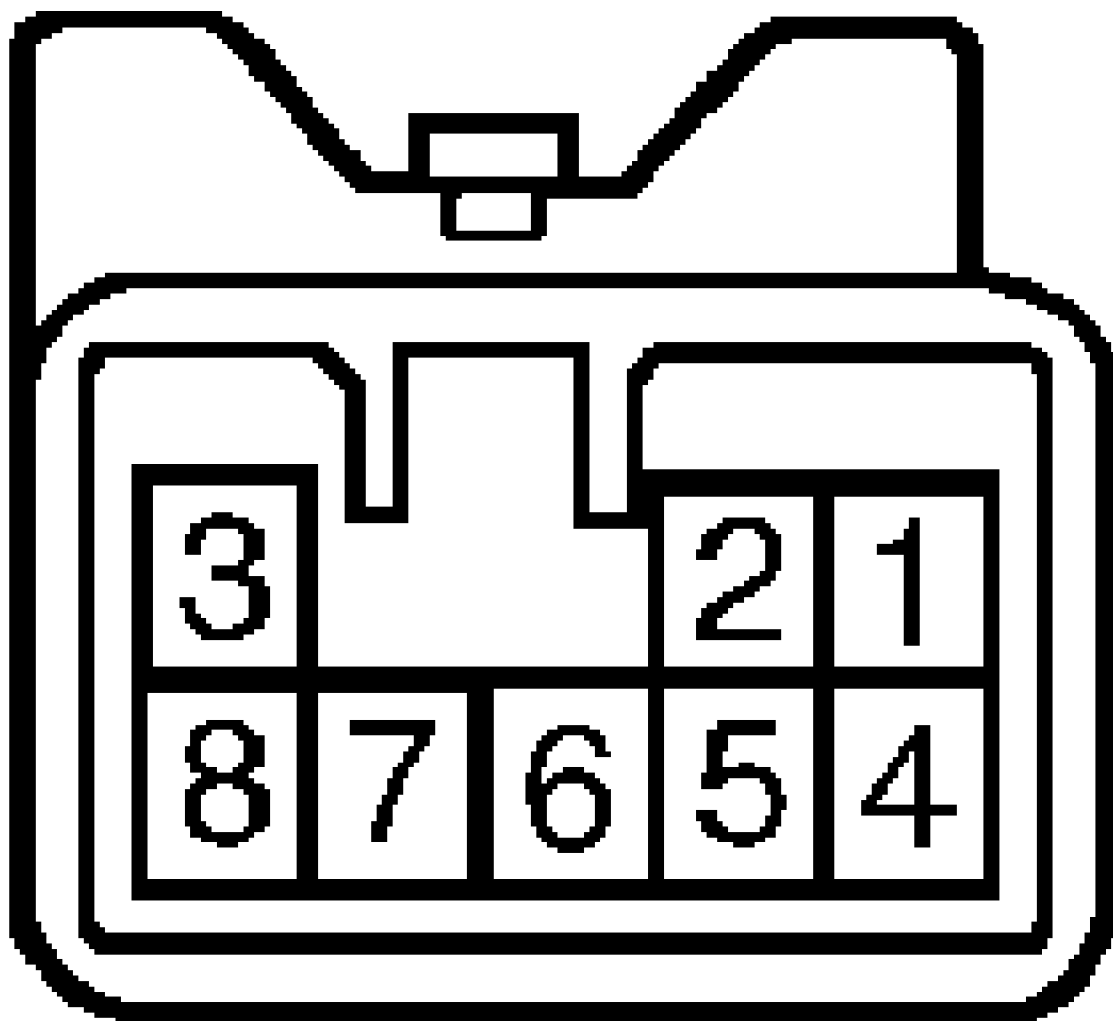
POWER MIRROR SWITCH CONTINUITY TEST TABLE (SUPRA)

Application	(1) Terminals No.
Switch In Left Position	
Up	2 & 5; 6 & 8
Down	2 & 6; 5 & 8
Left	1 & 8; 2 & 5
Right	1 & 2; 5 & 8

Switch In Right Position

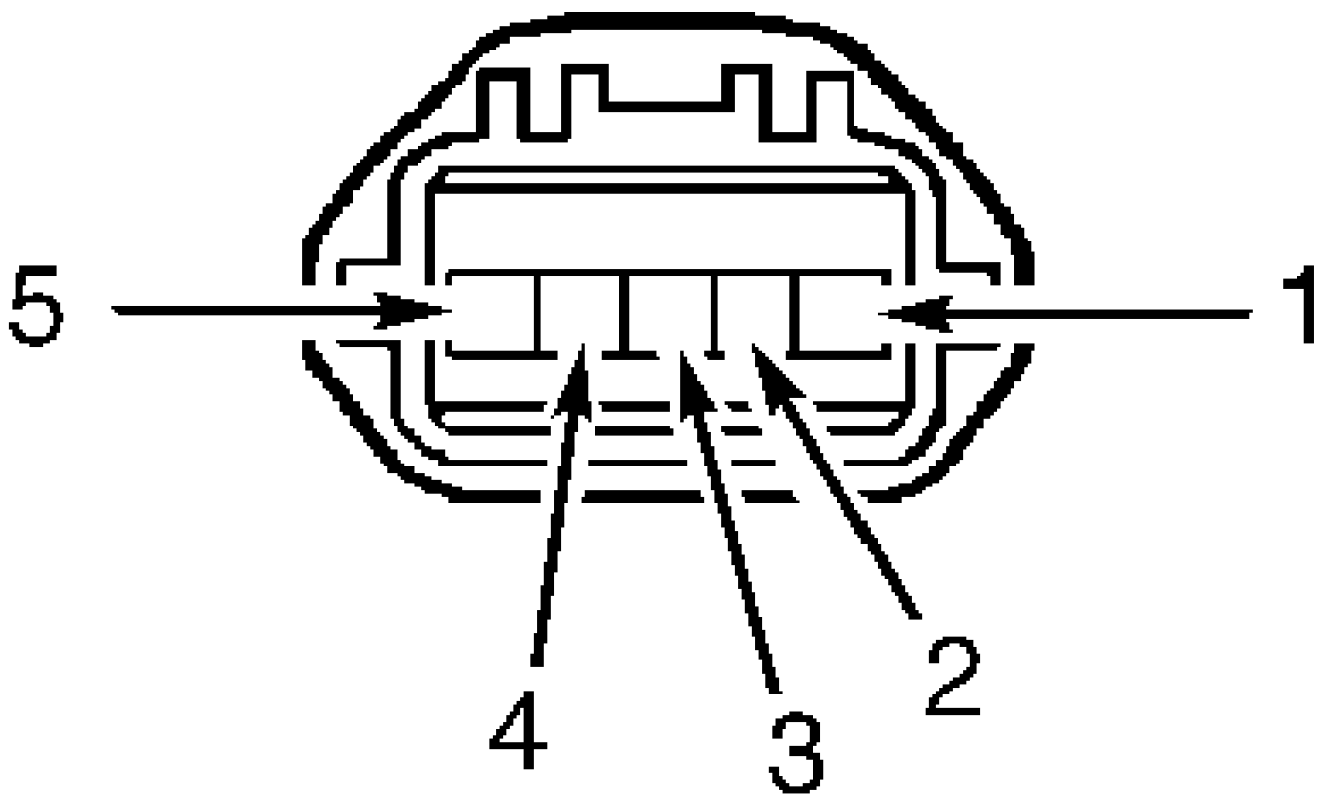
Up	2 & 5; 3 & 8
Down	2 & 3; 5 & 8
Left	2 & 5; 7 & 8
Right	2 & 7; 5 & 8

(1) - Continuity should exist between specified terminals.
See Figs. 16 and 17.



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Fig. 16: Identifying Power Mirror Switch Connector Terminals (Supra)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



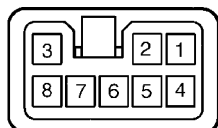
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Fig. 17: Identifying Power Mirror Motor Connector Terminals (Supra)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.

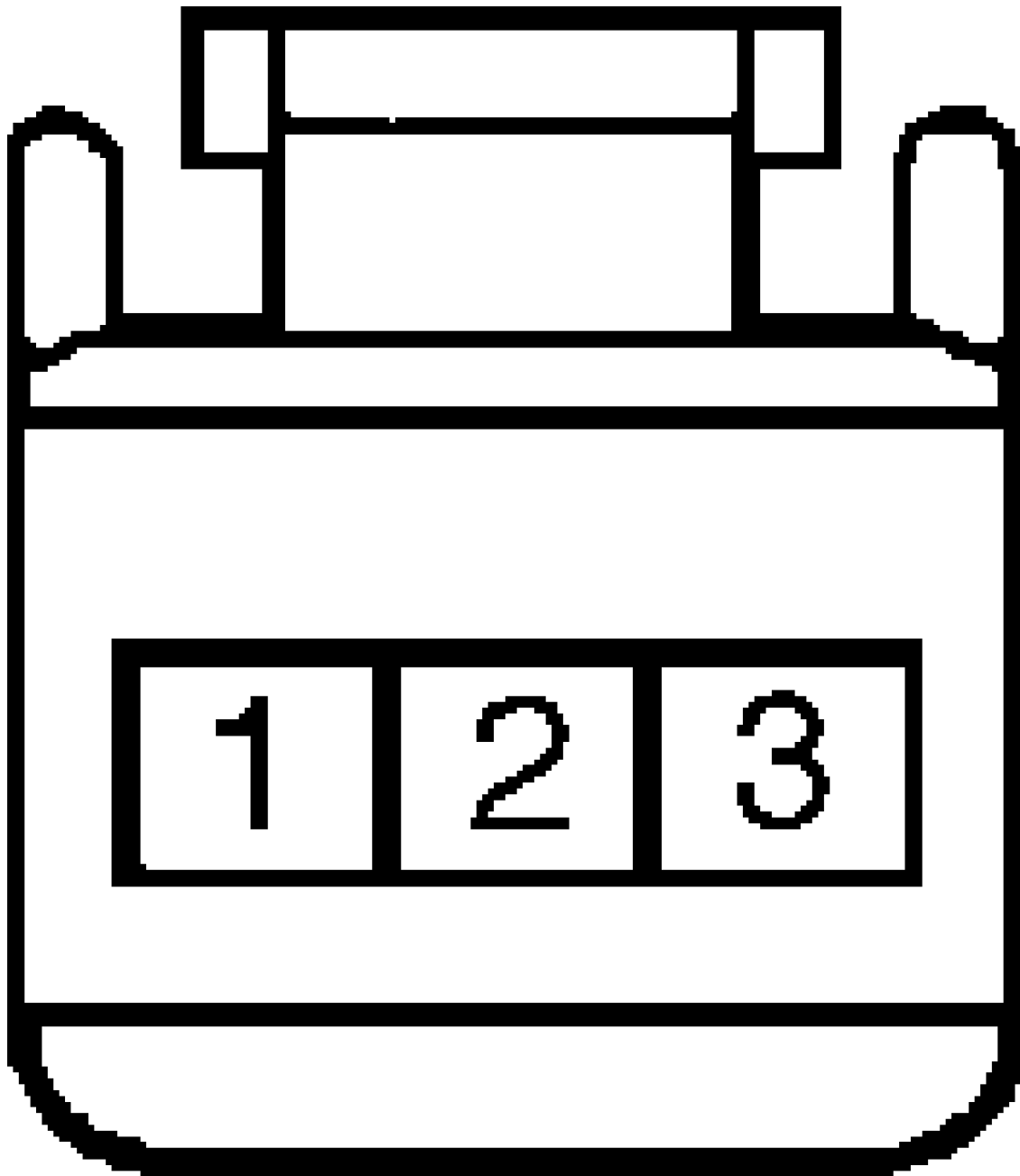
POWER MIRROR SWITCH CONTINUITY TEST TABLE (TACOMA)

Application	(1) Terminals No.
Switch In Left Position	
Up	2 & 3; 1 & 7
Down	1 & 2; 3 & 7
Left	2 & 3; 1 & 8
Right	1 & 2; 3 & 8
Switch In Right Position	
Up	2 & 3; 1 & 5
Down	1 & 2; 3 & 5
Left	2 & 3; 1 & 6
Right	1 & 2; 3 & 6

(1) - Continuity should exist between specified terminals.
 See Figs. 18 and 19.



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 Fig. 18: Identifying Power Mirror Switch Connector Terminals (Tacoma)
 Courtesy of Toyota Motor Sales, U.S.A., Inc.



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Fig. 19: Identifying Power Mirror Motor Connector Terminals (Tacoma)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

Application

(1) Terminals No.

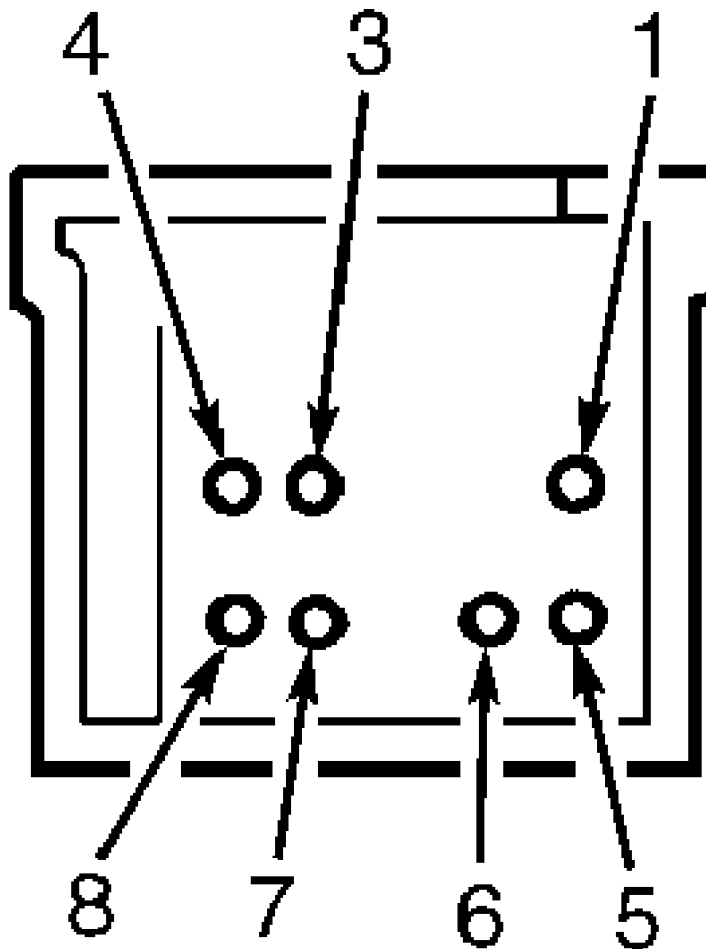
Switch In Left Position

Up	1 & 8; 3 & 4
Down	1 & 3; 4 & 8
Left	1 & 7; 3 & 4
Right	1 & 3; 4 & 7

Switch In Right Position

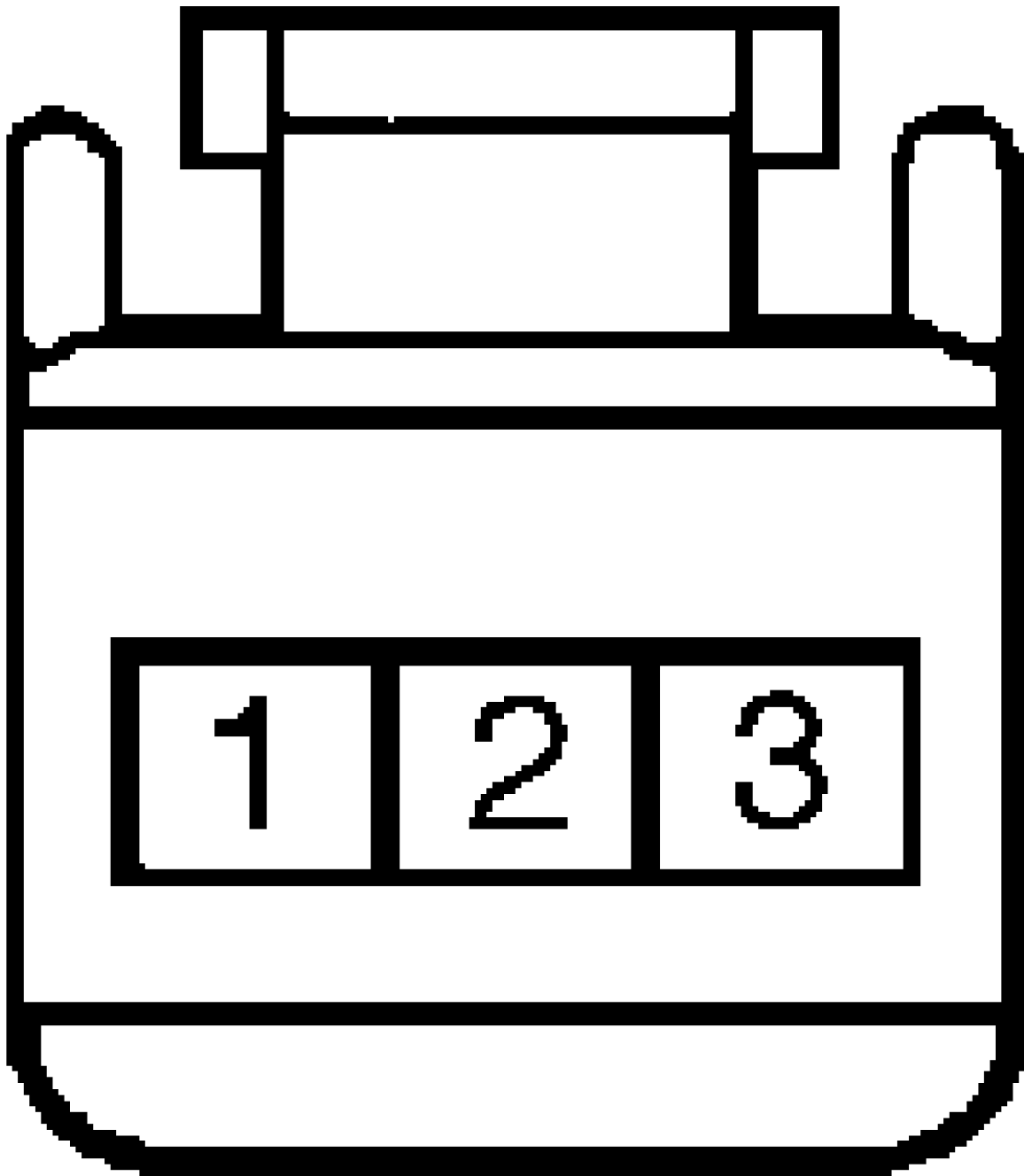
Up	1 & 5; 3 & 4
Down	1 & 3; 4 & 5
Left	1 & 6; 3 & 4
Right	1 & 3; 4 & 6

(1) - Continuity should exist between specified terminals.
See Figs. 20 & 21.



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Fig. 20: Identifying Power Mirror Switch Connector Terminals (T100)
Courtesy of Toyota Motor Sales, U.S.A., Inc.



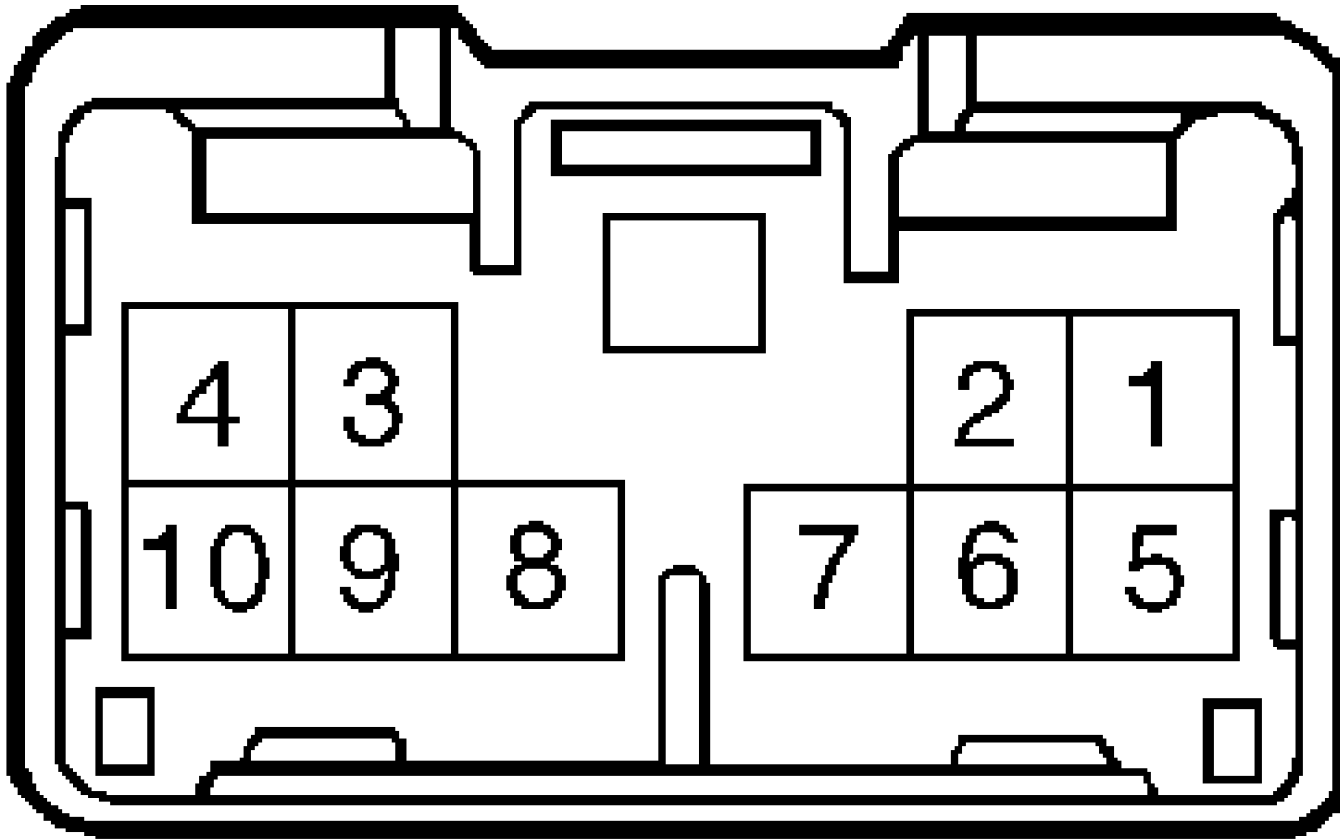
96A06851

Fig. 21: Identifying Power Mirror Motor Connector Terminals (T100)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

POWER MIRROR SWITCH CONTINUITY TEST TABLE (4RUNNER)

Application	(1) Terminals No.
Switch In Left Position	
Up	1 & 9; 6 & 10
Down	1 & 10; 6 & 9
Left	5 & 9; 6 & 10
Right	5 & 10; 6 & 9
Switch In Right Position	
Up	6 & 10; 7 & 9
Down	6 & 9; 7 & 10
Left	6 & 10; 8 & 9
Right	6 & 9; 8 & 10

(1) - Continuity should exist between specified terminals.
See Figs. 22 & 23.



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Fig. 22: Power Mirror Switch Connector Terminals (4Runner)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

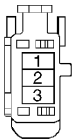


Fig. 23: Power Mirror Motor Connector Terminals (4Runner)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

POWER MIRROR MOTOR

NOTE: Mirror motor connectors may vary in configuration from vehicle to vehicle of the same model.

Disconnect power mirror motor harness connector. Using 12-volt power source, connect positive and negative leads to specified pins or terminals. See appropriate POWER MIRROR MOTOR TEST table. See Figs. 1-23. If power mirror motor fails any test, replace power mirror assembly.

POWER MIRROR MOTOR TEST TABLE (AVALON, CELICA & COROLLA)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
3	2	Up
2	3	Down
1	2	Left
2	1	Right

(1) - See Fig. 2 or 8.

POWER MIRROR MOTOR TEST TABLE (CAMRY - WITHOUT HEATER - TOYOTA MOTOR CORP. JAPAN)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
1	2	Up
2	1	Down
3	2	Left
2	3	Right

(1) - See Fig. 4.

POWER MIRROR MOTOR TEST TABLE (CAMRY - WITHOUT HEATER - TOYOTA MOTOR MFG. U.S.A.)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
3	2	Up
2	3	Down
1	2	Left
2	1	Right

(1) - See Fig. 5.

POWER MIRROR MOTOR TEST TABLE (CAMRY - WITH HEATER - TOYOTA MOTOR MFG. U.S.A.)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
1	2	Up
2	1	Down
3	2	Left
2	3	Right

(1) - See Fig. 6.

POWER MIRROR MOTOR TEST TABLE (LAND CRUISER & LEXUS LX470)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
8	7	Left
7	8	Right
6	7	Up
7	6	Down

(1) - See Fig. 10.

POWER MIRROR MOTOR TEST TABLE (RAV4)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
3	1	Right
1	3	Left
3	5	Down
5	3	Up

(1) - See Fig. 25.

POWER MIRROR MOTOR TEST TABLE (SIENNA)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
2	3	Left
3	2	Right
2	1	Up
1	2	Down

(1) - See Fig. 14 or 15.

POWER MIRROR MOTOR TEST TABLE (SUPRA)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
3	4	Up
4	3	Down
5	4	Left
4	5	Right

(1) - See Fig. 17.

POWER MIRROR MOTOR TEST TABLE (TACOMA, T100 & 4RUNNER)

Apply 12 Volts To Pin No.	(1) Ground Pin No.	Mirror Operation
2	1	Up
1	2	Down

3	1	Left
1	3	Right

(1) - See Fig. 19, 21 or 23.

REMOVAL & INSTALLATION

POWER MIRROR ASSEMBLY

Removal & Installation

Remove mirror inner trim panel on inside of the door. Mirror inner trim panel may include speaker. If necessary, disconnect speaker harness connector. Disconnect power mirror motor harness connector. Support outside mirror assembly while removing mirror retaining bolts/nuts on inside of the door. To install, reverse removal procedure.

POWER MIRROR SWITCH

NOTE: Power mirror switch removal and installation procedures are not available.

WIRING DIAGRAMS

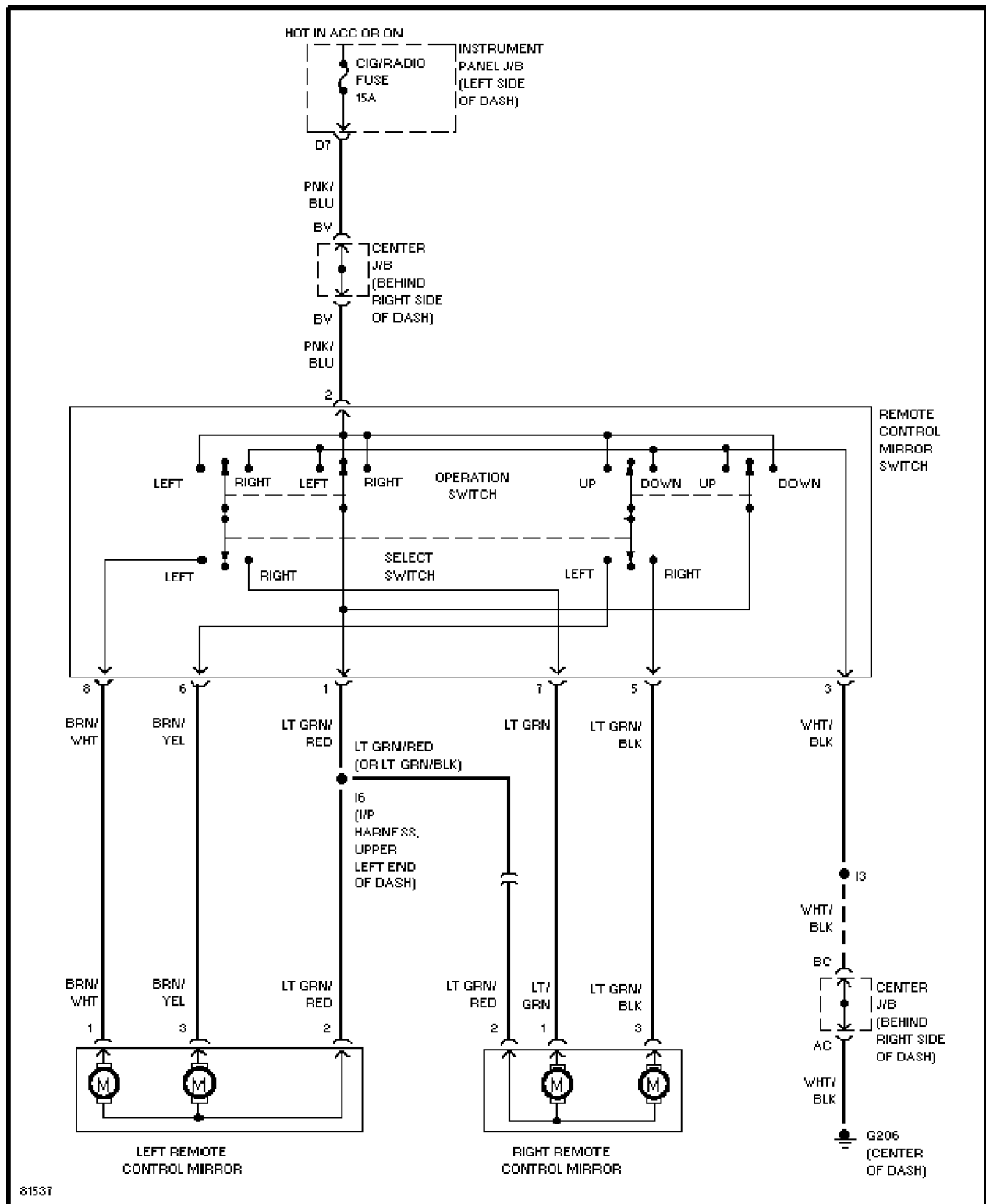


Fig. 24: Power Mirror System Wiring Diagram (Avalon)

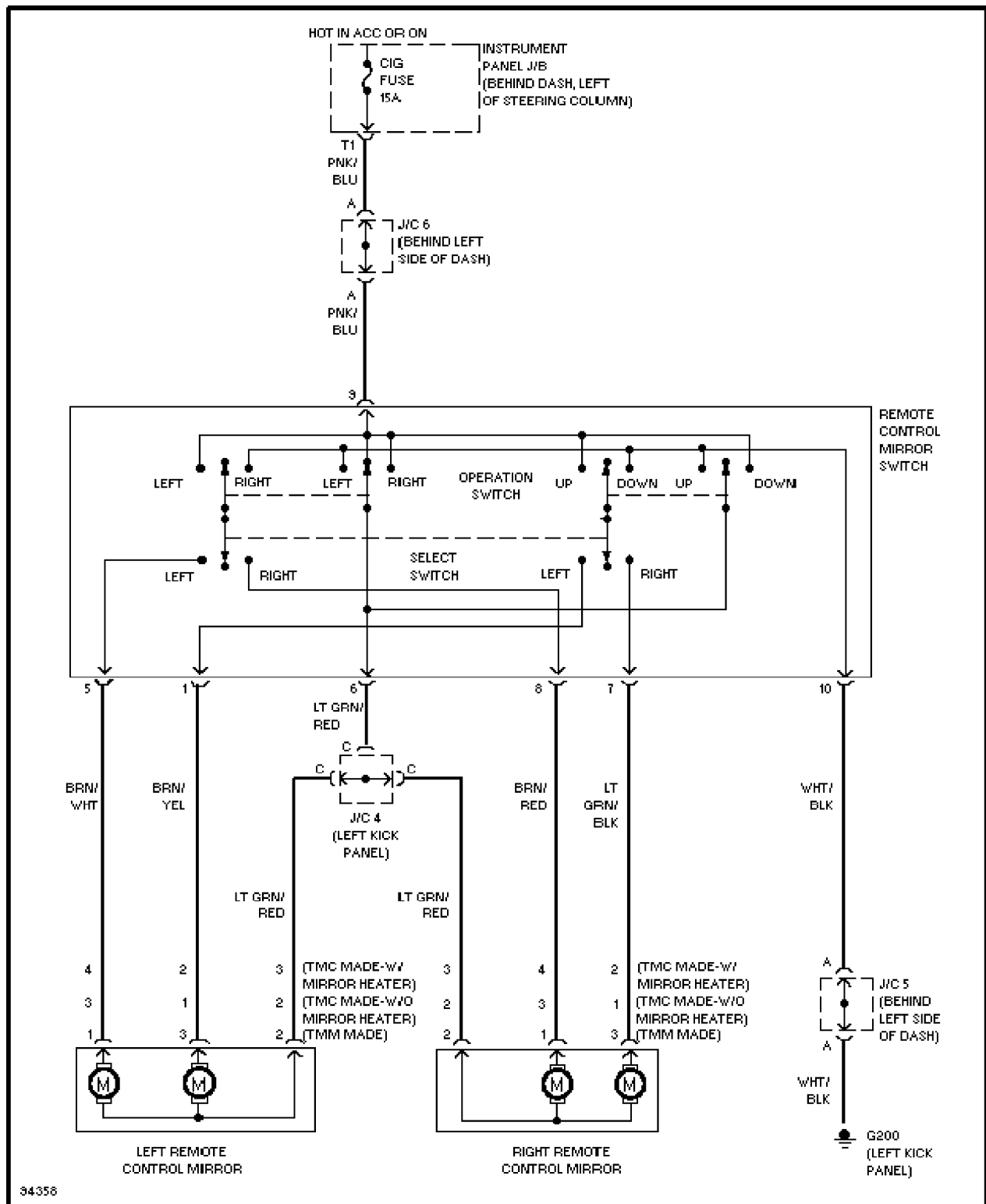


Fig. 25: Power Mirror System Wiring Diagram (Camry)

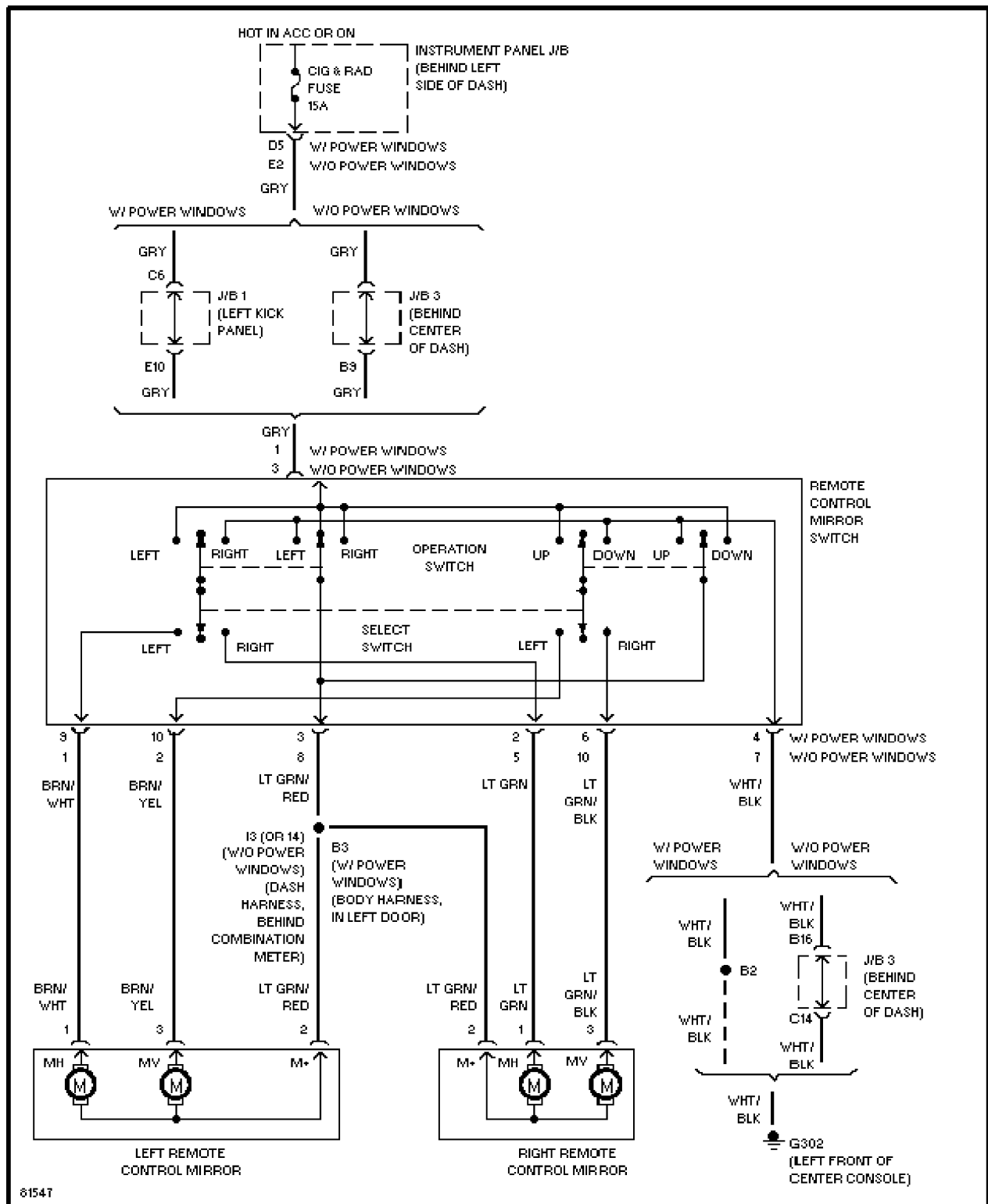


Fig. 26: Power Mirror System Wiring Diagram (Celica)

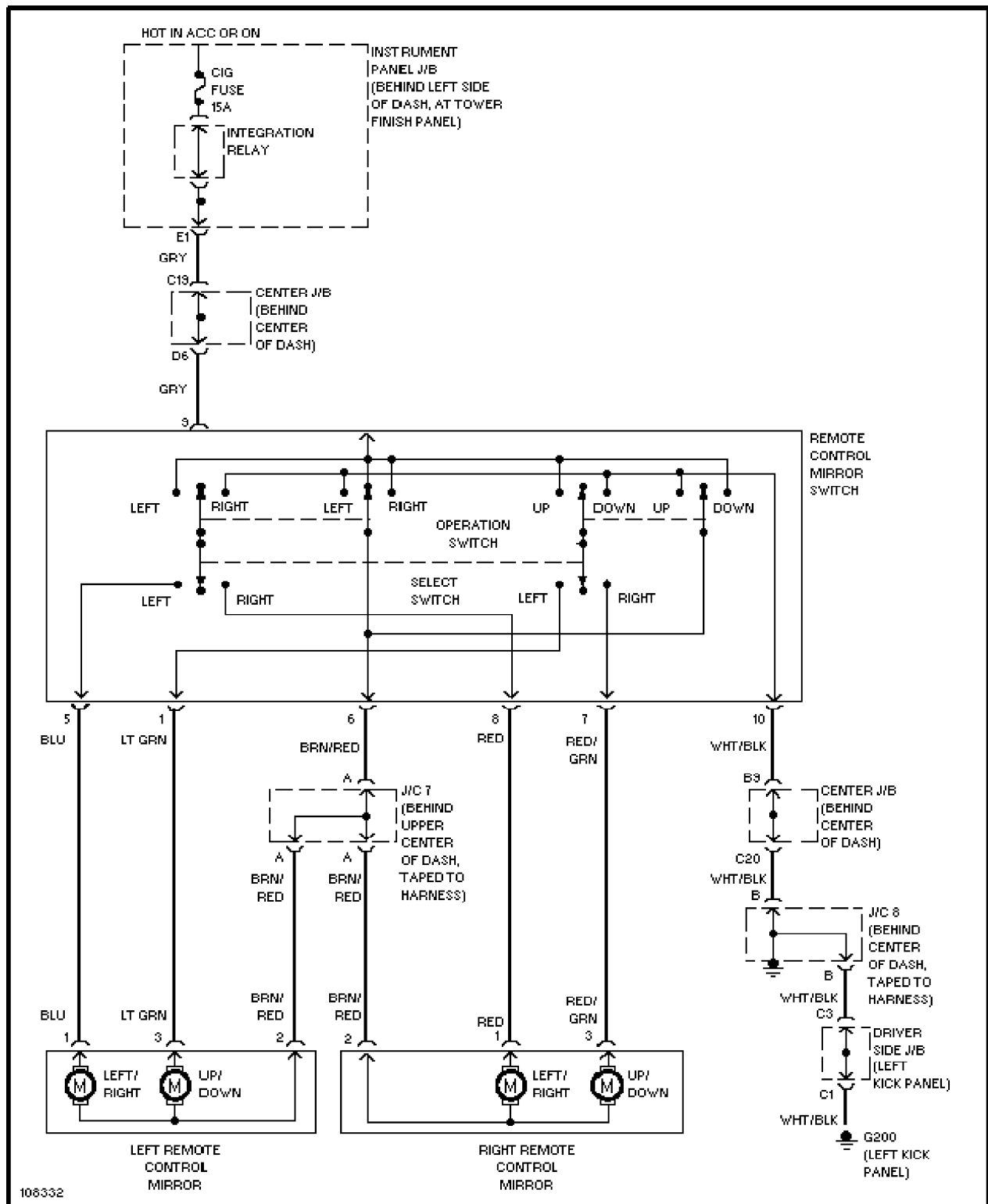


Fig. 27: Power Mirror System Wiring Diagram (Corolla)

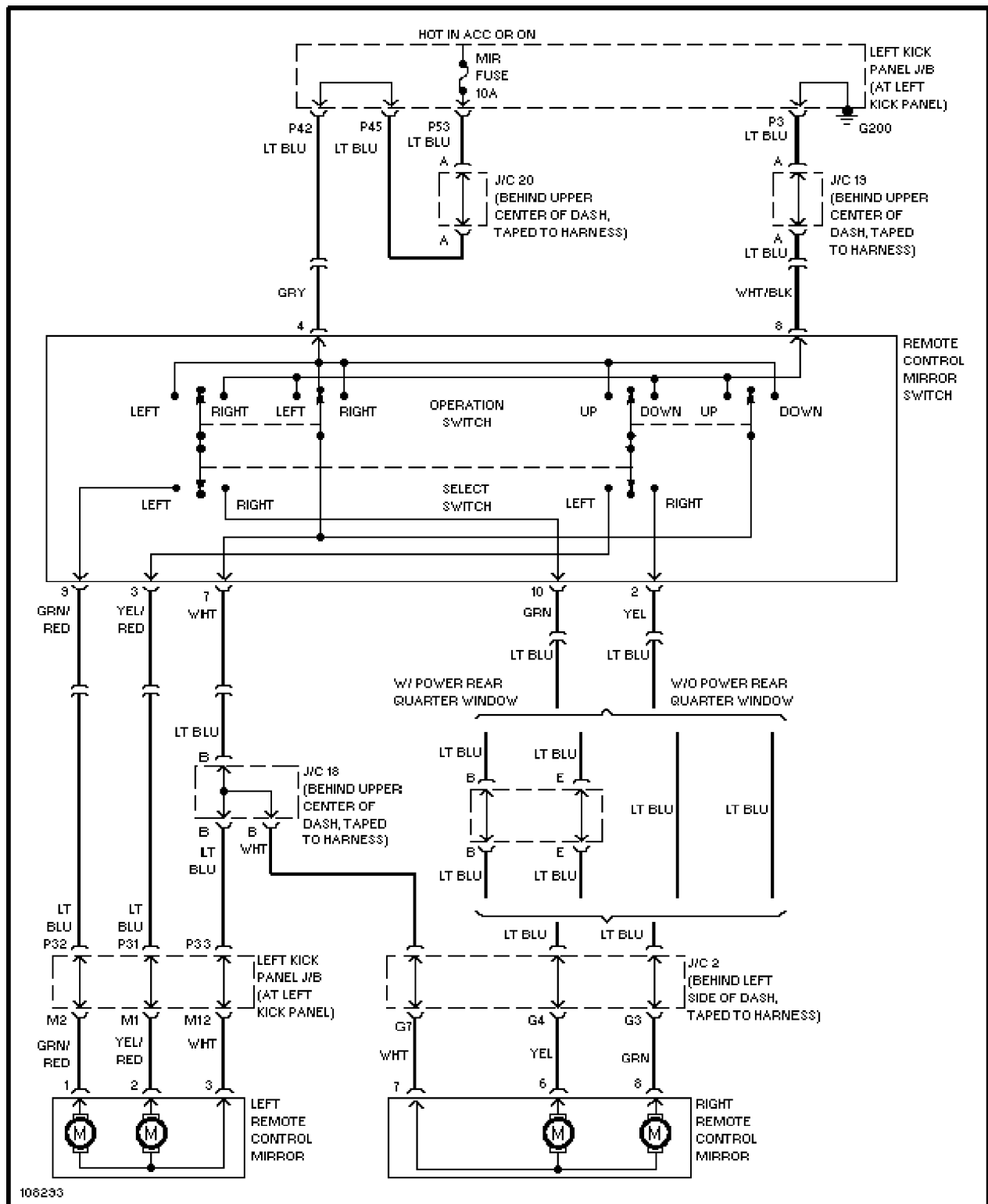


Fig. 28: Power Mirror System Wiring Diagram (Land Cruiser & Lexus LX470)

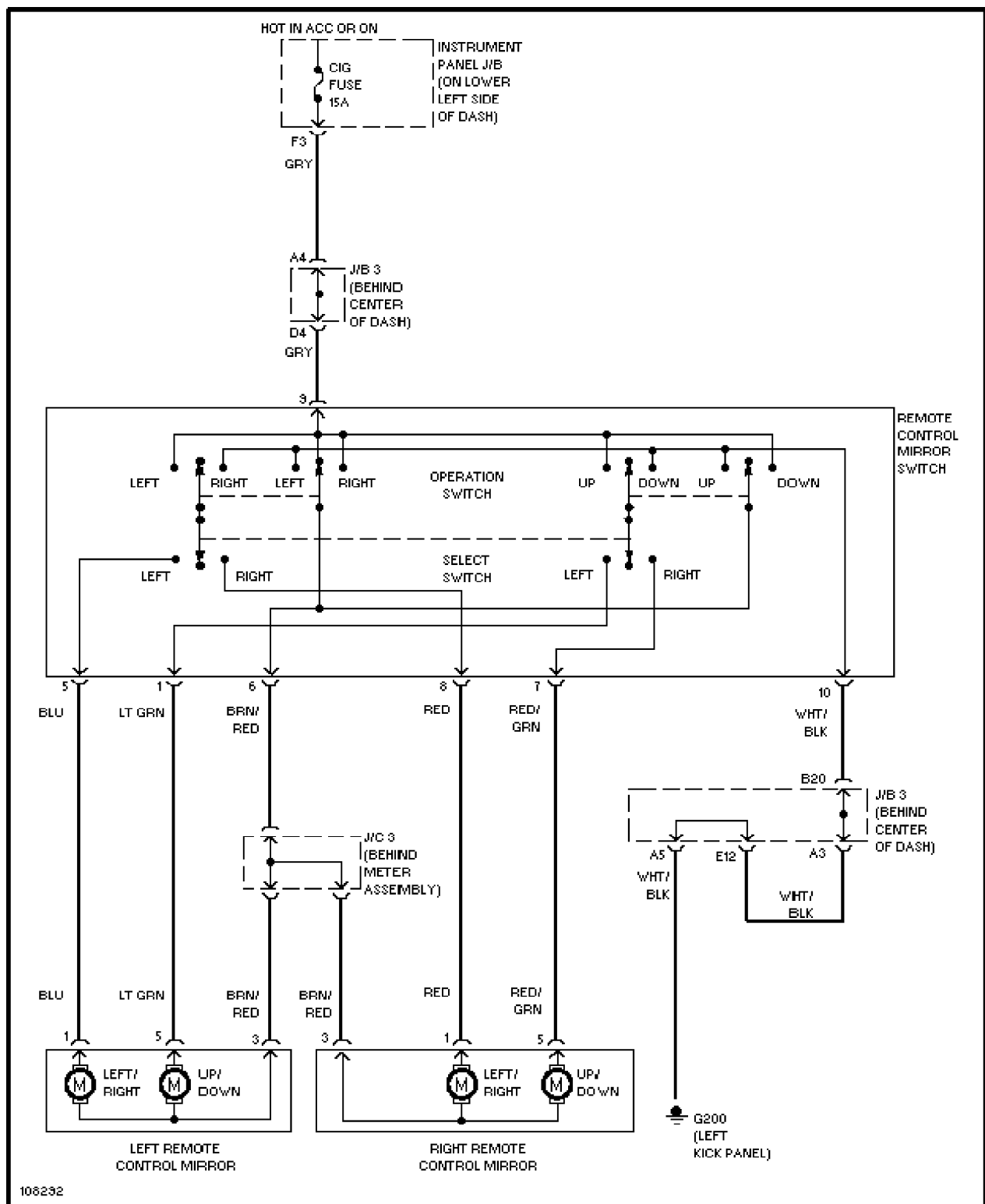


Fig. 29: Power Mirror System Wiring Diagram (RAV4)

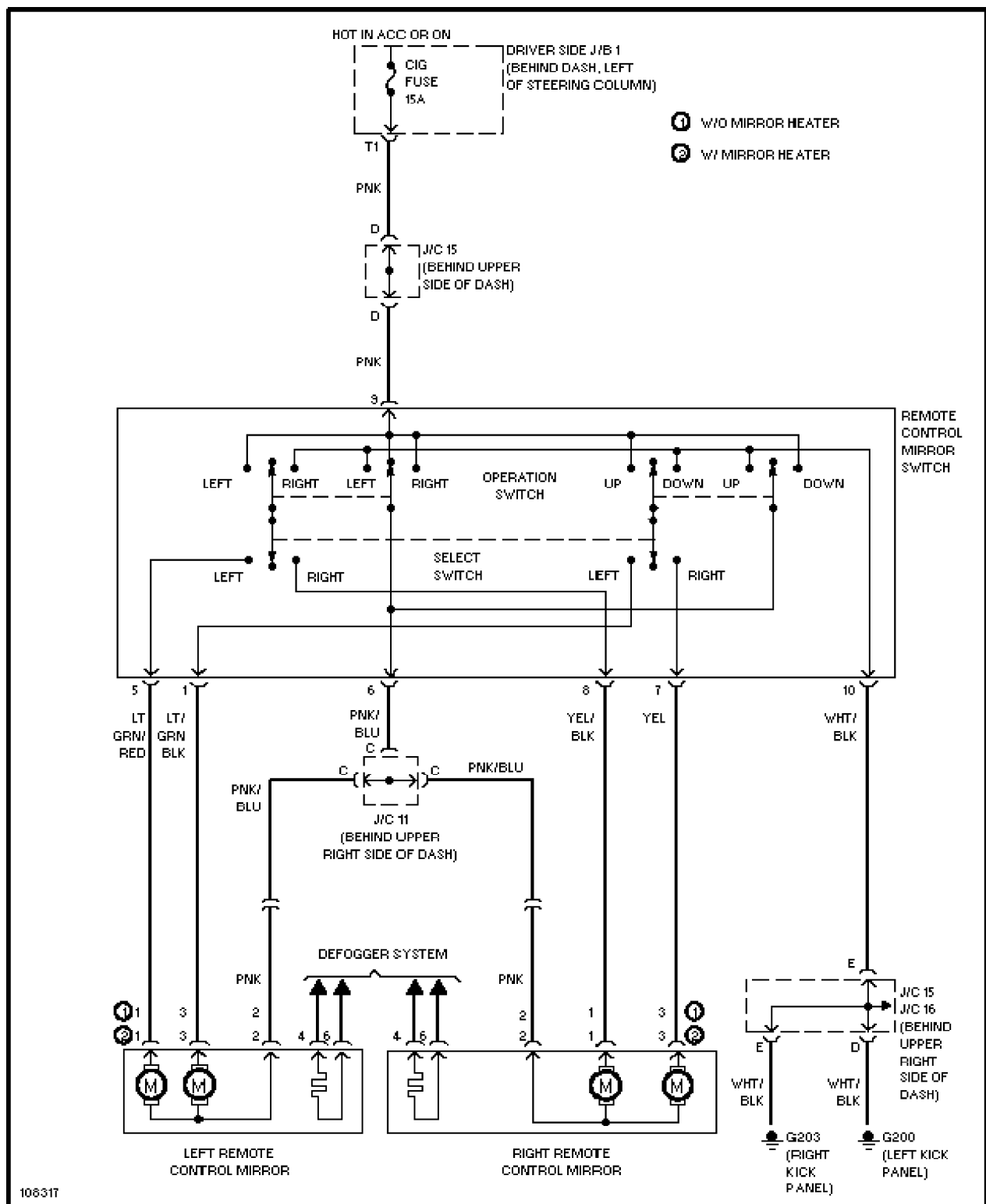


Fig. 30: Power Mirror System Wiring Diagram (Sienna)

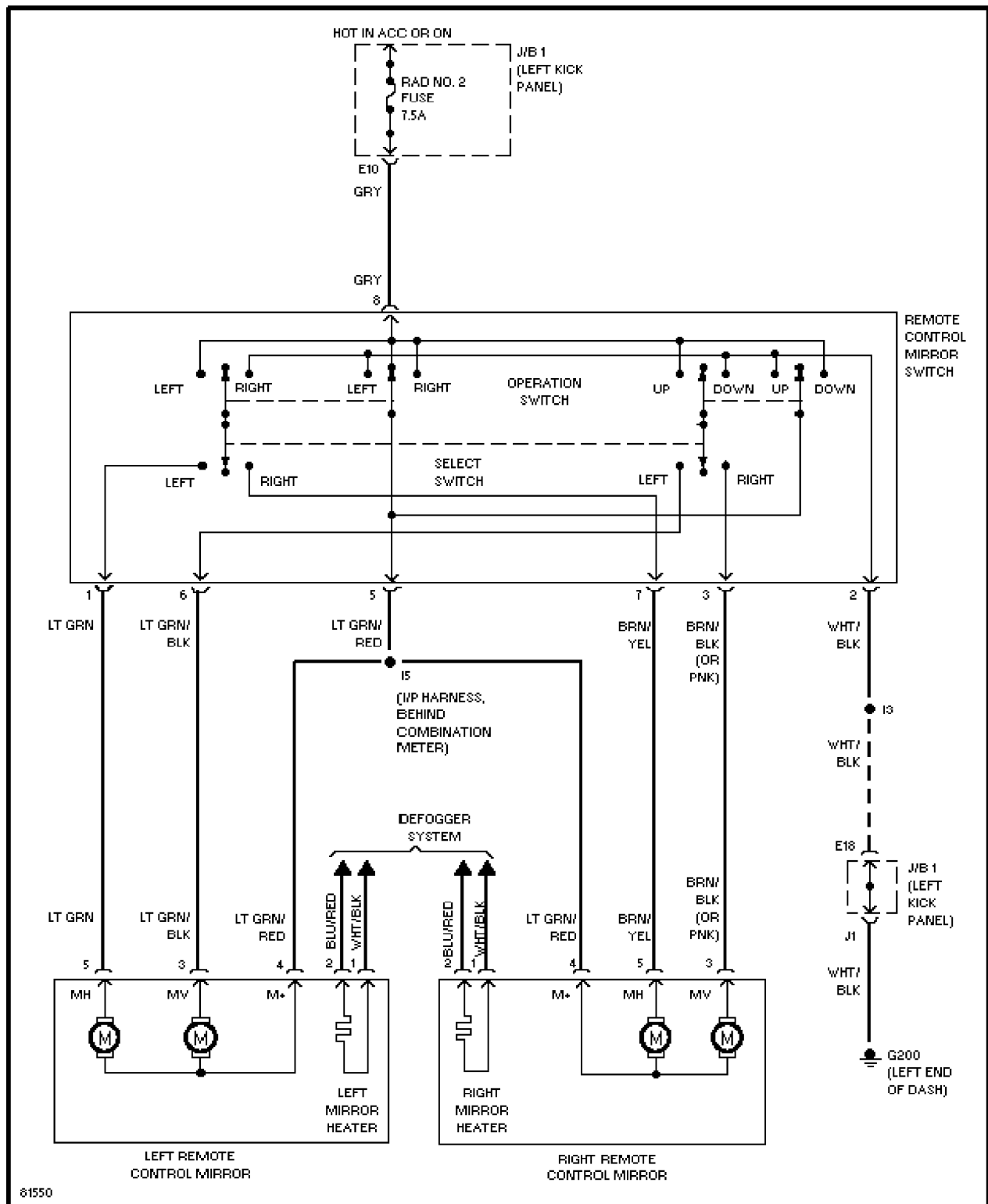


Fig. 31: Power Mirror System Wiring Diagram (Supra)

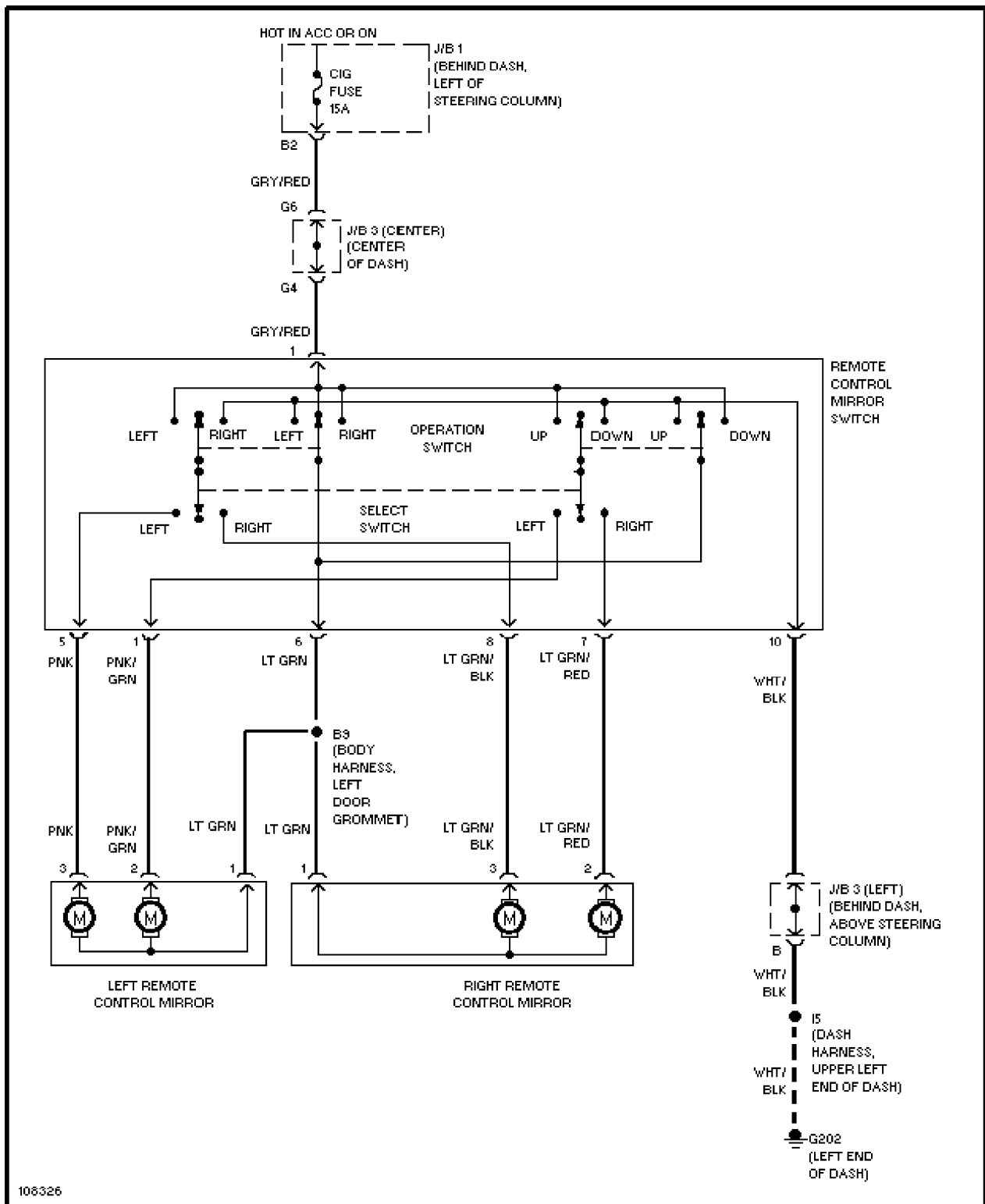


Fig. 32: Power Mirror System Wiring Diagram (Tacoma)

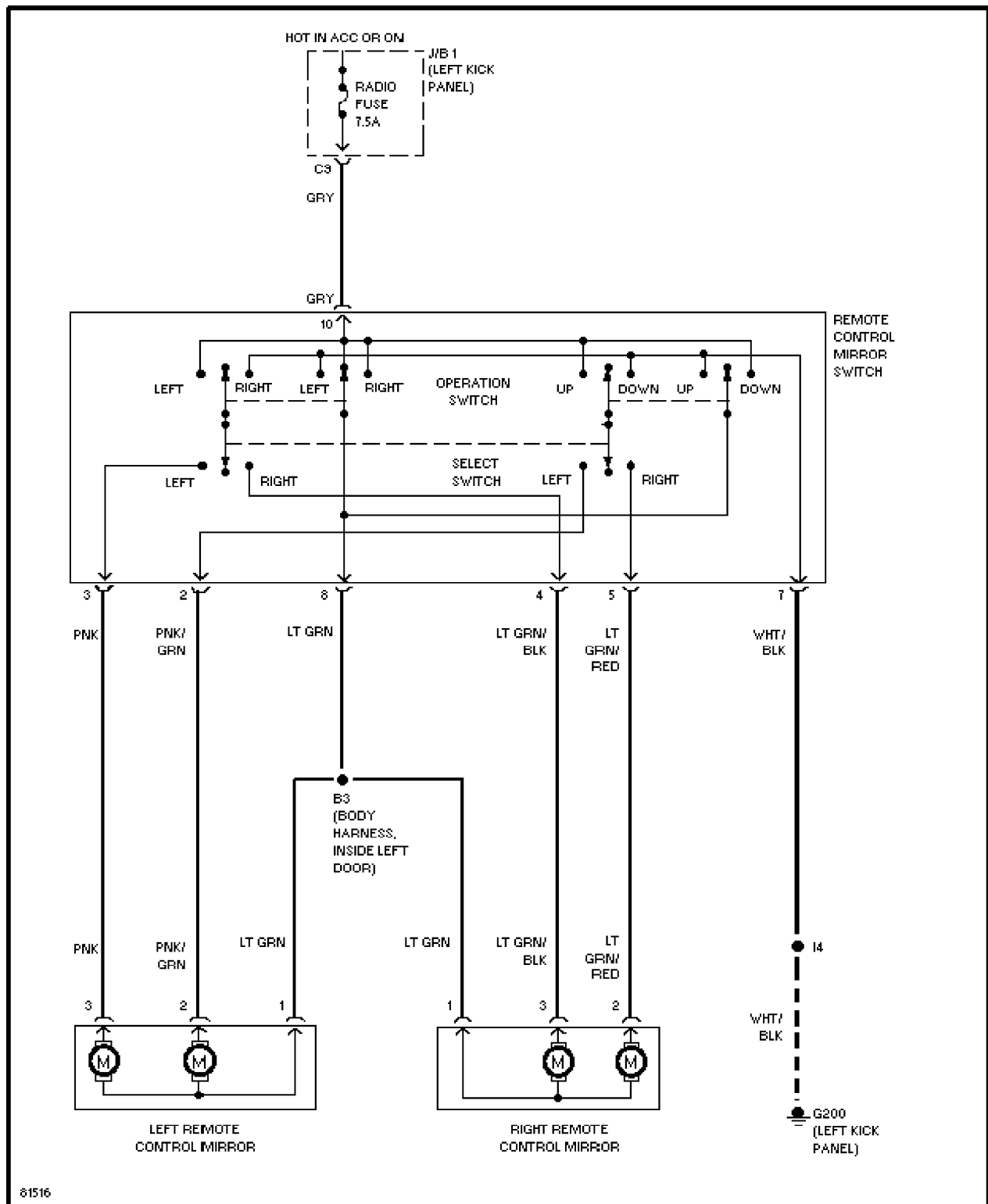


Fig. 33: Power Mirror System Wiring Diagram (T100)

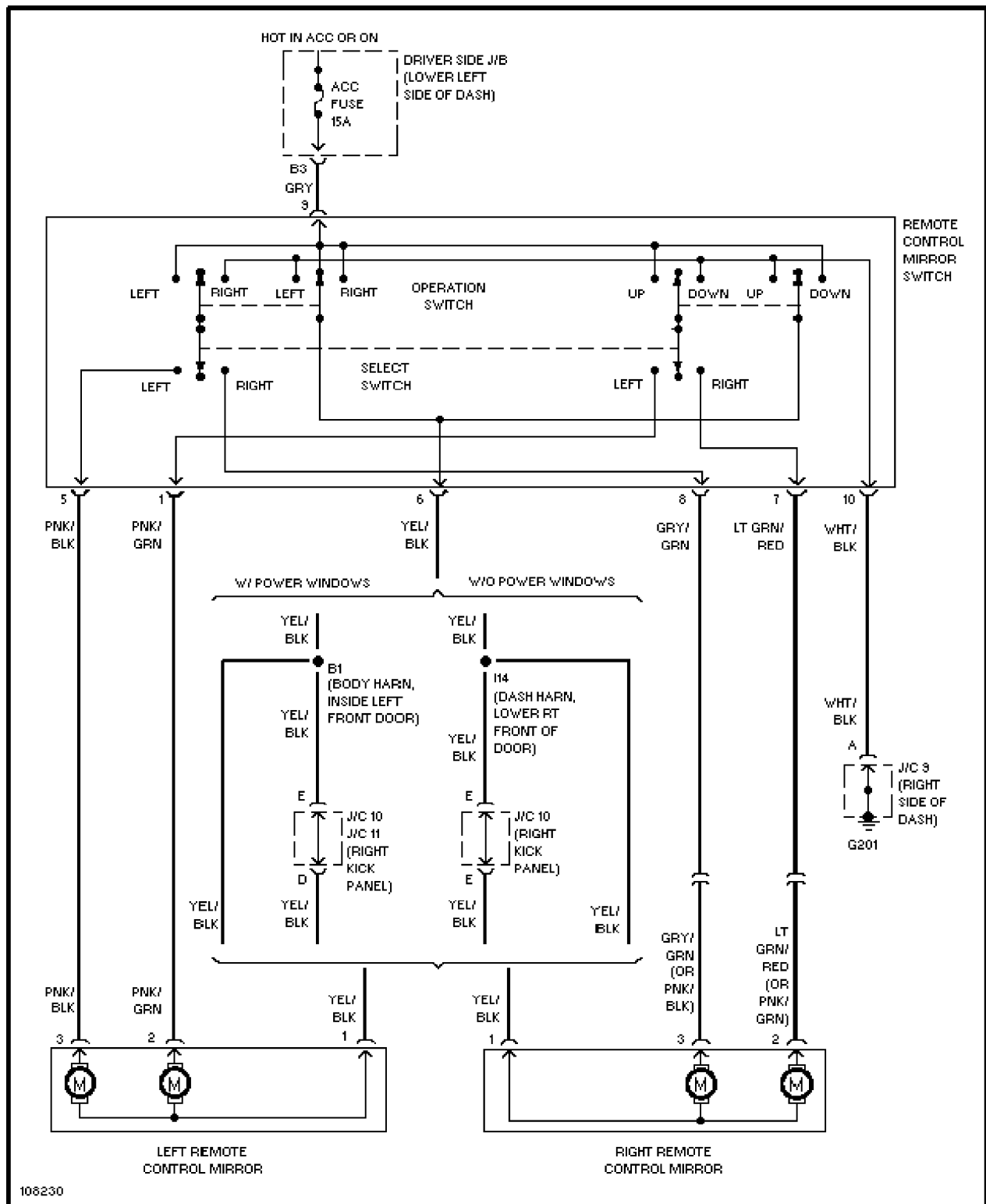


Fig. 34: Power Mirror System Wiring Diagram (4Runner)