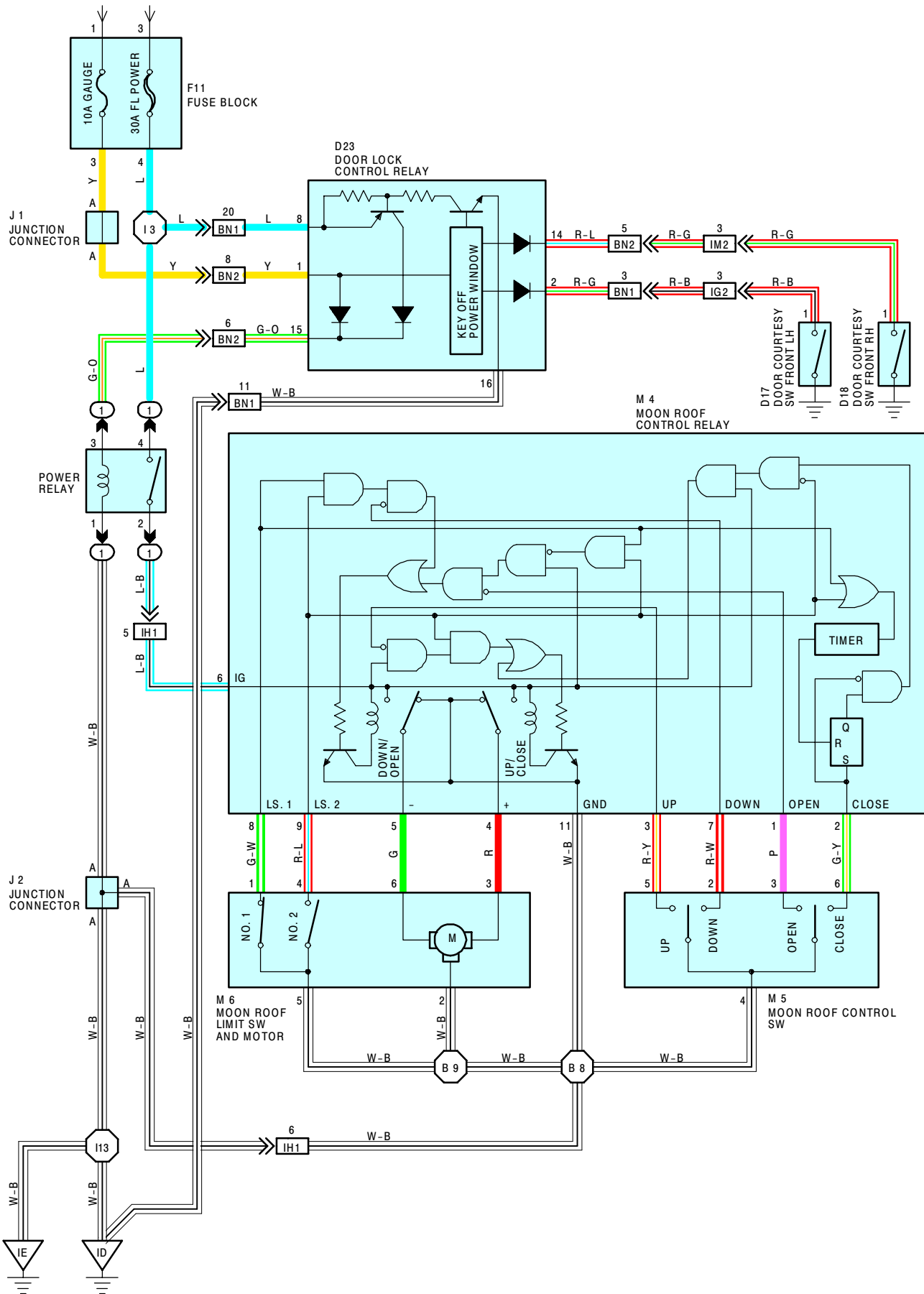




MOON ROOF

FROM POWER SOURCE SYSTEM (SEE PAGE 54)



SYSTEM OUTLINE

CURRENT IS APPLIED AT ALL TIMES THROUGH THE **FL POWER** FUSE TO **TERMINAL 4** OF THE POWER RELAY.

WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS FROM **TERMINAL 3** OF THE POWER RELAY TO **TERMINAL 1** → **GROUND** THROUGH THE **GAUGE** FUSE. AS A RESULT, THE POWER RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 4** OF THE POWER RELAY FLOWS FROM **TERMINAL 2** OF THE RELAY TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY.

1. SLIDE OPEN OPERATION

WHEN THE IGNITION SW IS TURNED ON AND THE MOON ROOF CONTROL SW IS PUSHED TO THE **OPEN** POSITION, A SIGNAL IS INPUT FROM **TERMINAL 3** OF THE MOON ROOF CONTROL SW TO **TERMINAL 1** OF THE MOON ROOF CONTROL RELAY. THE MOON ROOF LIMIT SW NO. 2 IS TURNED ON AT THIS TIME.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 5** TO **TERMINAL 6** OF THE MOON ROOF MOTOR → **TERMINAL 3** → **TERMINAL 4** OF THE MOON ROOF CONTROL RELAY → **TERMINAL 11** → **GROUND**, ROTATING THE MOTOR TO OPEN THE MOON ROOF WHILE THE SW IS BEING PUSHED TO **OPEN** POSITION.

2. SLIDE CLOSE OPERATION

WITH THE IGNITION SW TURNED ON, THE MOON ROOF COMPLETELY OPENED AND THE MOON ROOF LIMIT SWITCH NO. 1 AND NO. 2 BOTH ARE ON, WHEN THE MOON ROOF CONTROL SW IS PUSHED TO THE **CLOSE** POSITION, A SIGNAL IS INPUT FROM **TERMINAL 6** OF THE MOON ROOF CONTROL SW TO **TERMINAL 2** OF THE MOON ROOF CONTROL RELAY.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 4** TO **TERMINAL 3** OF THE MOON ROOF MOTOR → **TERMINAL 6** → **TERMINAL 5** OF THE MOON ROOF CONTROL RELAY → **TERMINAL 11** → **GROUND**, ROTATING THE MOTOR TO CLOSE THE MOON ROOF WHILE THE SW IS BEING PUSHED TO **CLOSE** POSITION.

WHEN THE MOON ROOF LIMIT SW NO. 1 IS TURNED OFF (THE MOON ROOF LIMIT SW NO. 2 IS ON) AND MOON ROOF REACHES **100** MM FROM FULLY **CLOSE** POSITION, SIGNAL IS INPUT FROM **TERMINAL 1** OF THE LIMIT SW NO. 1 TO **TERMINAL 8** OF THE MOON ROOF CONTROL RELAY. THIS SIGNAL ACTIVATES THE RELAY AND STOPS CONTINUITY FROM **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY TO **TERMINAL 11**, AS A RESULT, THE MOON ROOF STOPS AT THIS POSITION.

TO CLOSE THE MOON ROOF COMPLETELY, PUSHING THE MOON ROOF CONTROL SW AGAIN TO THE CLOSE SIDE CAUSES A SIGNAL TO BE INPUT AGAIN TO **TERMINAL 2** OF THE MOON ROOF CONTROL RELAY. THIS ACTIVATES THE RELAY AND THE MOON ROOF WILL CLOSE AS LONG AS THE MOON ROOF CONTROL SW IS BEING PUSHED, ALLOWING THE MOON ROOF TO FULLY CLOSE.

3. TILT UP OPERATION

WHEN THE MOON ROOF CONTROL SW IS PUSHED TO **TILT UP** POSITION, WITH THE IGNITION SW TURNED ON AND THE MOON ROOF COMPLETELY CLOSED (MOON ROOF LIMIT SW NO. 2 IS OFF), A SIGNAL IS INPUT FROM **TERMINAL 5** OF THE MOON ROOF CONTROL SW TO **TERMINAL 3** OF THE MOON ROOF CONTROL RELAY. AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF THE RELAY FLOWS FROM **TERMINAL 4** OF THE RELAY TO **TERMINAL 3** OF THE MOON ROOF MOTOR → **TERMINAL 6** → **TERMINAL 5** OF THE RELAY → **TERMINAL 11** → **GROUND**, ROTATING THE MOTOR SO THAT TILT UP OPERATION OCCURS AS LONG AS THE MOON ROOF CONTROL SW IS PUSHED ON THE TILT UP SIDE.

4. TILT DOWN OPERATION

WHEN THE MOON ROOF CONTROL SW IS PUSHED TO **TILT DOWN** POSITION, WITH THE IGNITION SW TURNED ON AND THE MOON ROOF TILTED UP (THE MOON ROOF LIMIT SW NO. 1 AND NO. 2 ARE BOTH OFF), A SIGNAL IS INPUT FROM **TERMINAL 2** OF THE MOON ROOF CONTROL SW TO **TERMINAL 7** OF THE MOON ROOF CONTROL RELAY.

AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF THE RELAY FLOWS FROM **TERMINAL 5** OF THE RELAY TO **TERMINAL 6** OF THE MOON ROOF MOTOR → **TERMINAL 3** → **TERMINAL 4** OF THE RELAY → **TERMINAL 11** → **GROUND**, ROTATING THE MOTOR SO THAT TILT DOWN OPERATION OCCURS AS LONG AS THE MOON ROOF CONTROL SW IS PUSHED ON THE TILT DOWN SIDE. (DURING TILT DOWN, THE LIMIT SW NO. 1 IS CHANGED OFF TO ON.)

5. TILT UP REMINDER SYSTEM

WHEN THE IGNITION SW IS TURNED FROM ON TO ACC OR OFF, WITH THE MOON ROOF STILL TILTED UP, THE CURRENT DOES NOT FLOW TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY.

THIS IS RECEIVED BY THE RELAY AS A SIGNAL THAT THE IGNITION SW IS TURNED OFF. AT THIS TIME, THE MOON ROOF LIMIT SW NO. 1 AND NO. 2 ARE OFF, SO SIGNALS ARE INPUT TO **TERMINALS 8** AND **9** OF THE MOON ROOF CONTROL RELAY THAT THE MOON ROOF IS IN THE TILT OPERATION POSITION. WHEN THESE SIGNALS ARE INPUT TO THE MOON ROOF CONTROL RELAY, THE TIMER BUILT INTO THE RELAY OPERATES.

6. KEY OFF MOON ROOF OPERATION

WITH THE IGNITION SW TURNED FROM ON TO OFF, THE DOOR LOCK CONTROL RELAY OPERATES AND CURRENT FLOWS FROM THE **FL POWER** FUSE TO **TERMINAL 8** OF THE DOOR LOCK CONTROL RELAY → **TERMINAL 15** → **TERMINAL 3** OF THE POWER RELAY → **TERMINAL 1** → **GROUND**, AT THIS TIME, FOR ABOUT **60** SECONDS THE SAME AS NORMAL OPERATION, CURRENT FLOWS FROM **POWER** FUSE → **TERMINAL 4** OF THE POWER RELAY → **TERMINAL 2** → **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY. AS A RESULT, FOR ABOUT **60** SECONDS AFTER THE IGNITION SW IS TURNED OFF, THE FUNCTION OF THIS RELAY MAKES IT POSSIBLE TO OPEN AND CLOSE THE MOON ROOF. ALSO, BY OPENING THE FRONT DOOR (THE DOOR COURTESY SW ON) WITHIN ABOUT **60** SECONDS AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO **TERMINAL 2** OR **14** OF THE DOOR LOCK CONTROL RELAY. AS A RESULT, THE RELAY TURNS OFF, AND OPEN AND CLOSE MOVEMENT OF THE MOON ROOF STOPS.



SERVICE HINTS

POWER RELAY

(1) 4 – (1) 2 : CLOSED WITH THE IGNITION SW AT **ON** POSITION OR KEY OFF OPERATED

M 4 MOON ROOF CONTROL RELAY

11-GROUND : ALWAYS CONTINUITY

6-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW AT **ON** POSITION OR KEY OFF OPERATED

4-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW ON AND THE MOON ROOF CONTROL SW AT **CLOSE** OR **UP** POSITION (EXCEPT APPROX. **100** MM (**3.941** IN.) **2** SECONDS IN THE BEFORE **CLOSED** POSITION)

5-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW ON AND THE MOON ROOF CONTROL SW AT **OPEN** OR **DOWN** POSITION

9-GROUND : APPROX. **12** VOLTS → **0** VOLTS FROM OPEN TO CLOSE

0 VOLTS WITH **UP** OR **DOWN** POSITION

0 VOLTS → APPROX. **12** VOLTS WITH APPROX. **100** MM (**3.941** IN.) **2** SECONDS IN THE BEFORE **CLOSED** POSITION

8-GROUND : **0** VOLTS → APPROX. **12** VOLTS FROM **UP** TO **DOWN** POSITION

M 5 MOON ROOF CONTROL SW

5-4 : CLOSED WITH THE MOON ROOF CONTROL SW AT **UP** POSITION

6-4 : CLOSED WITH THE MOON ROOF CONTROL SW AT **CLOSE** POSITION

2-4 : CLOSED WITH THE MOON ROOF CONTROL SW AT **DOWN** POSITION

3-4 : CLOSED WITH THE MOON ROOF CONTROL SW AT **OPEN** POSITION

4-GROUND : ALWAYS CONTINUITY



: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
D17	26	J 1	25	M 5	26
D18	26	J 2	25	M 6	26
D23	26	M 4	26		



: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
1	20	R/B NO. 1 (LEFT KICK PANEL)



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG2	32	COWL WIRE AND FLOOR WIRE (LEFT KICK PANEL)
IH1	32	ROOF WIRE AND COWL WIRE (LEFT KICK PANEL)
IM2	34	COWL WIRE AND FLOOR NO. 2 WIRE (RIGHT KICK PANEL)
BN1	36	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)
BN2		



: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
ID	32	LEFT KICK PANEL
IE	32	RIGHT KICK PANEL



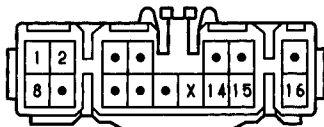
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 3	34	COWL WIRE	B 8	38	ROOF WIRE
I13			B 9		

D17, D18 BLUE



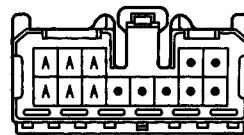
D23 GRAY



F11

(SEE PAGE 20)

J 1



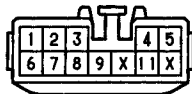
(HINT:SEE PAGE 7)

J 2 BLUE



(HINT:SEE PAGE 7)

M 4



M 5



M 6

