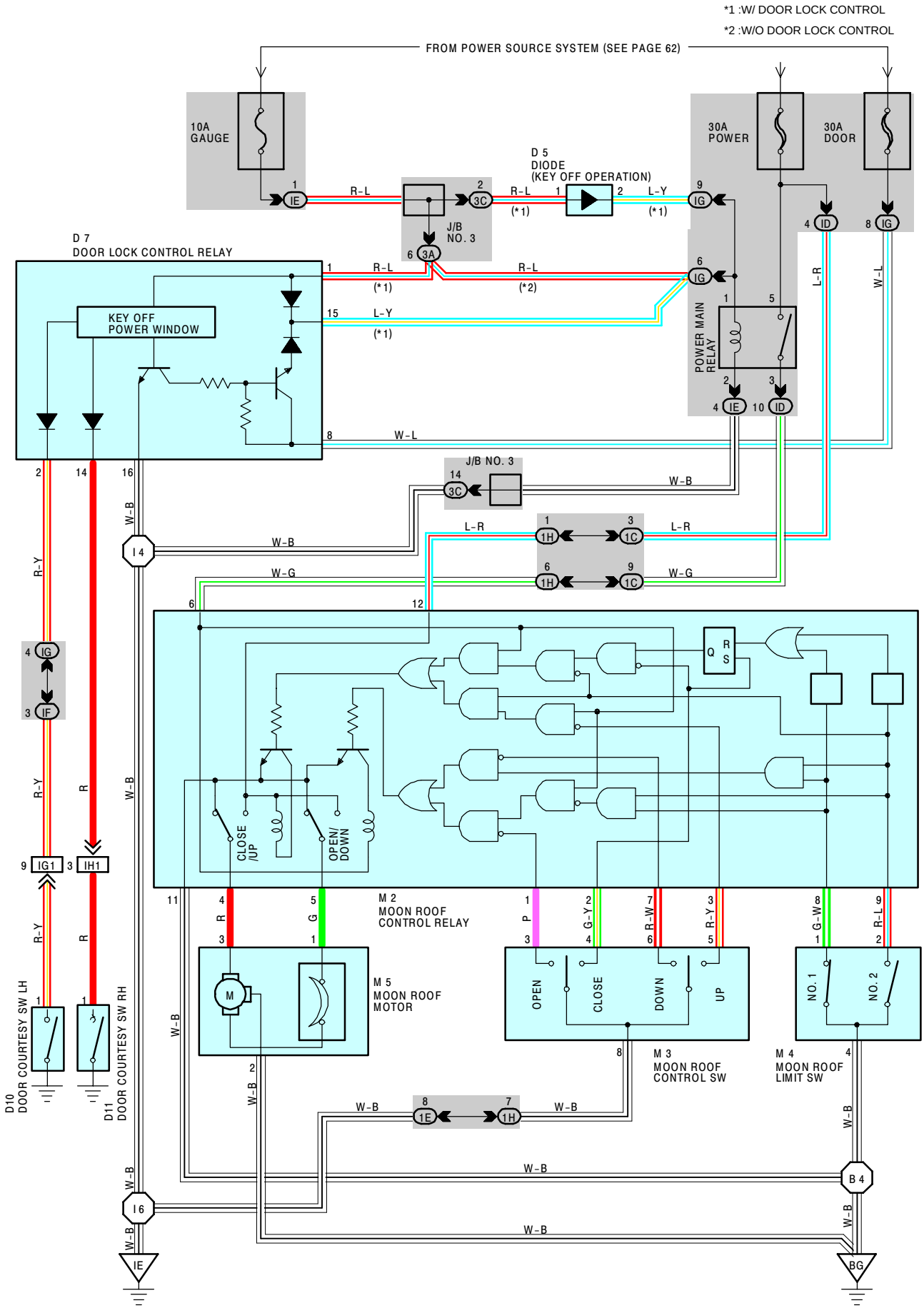

*1 :W/ DOOR LOCK CONTROL
*2 :W/O DOOR LOCK CONTROL
FROM POWER SOURCE SYSTEM (SEE PAGE 62)
10A GAUGE
30A POWER
30A DOOR
D 5 DIODE (KEY OFF OPERATION)
J/B NO. 3
D 7 DOOR LOCK CONTROL RELAY
KEY OFF POWER WINDOW
POWER MAIN RELAY
J/B NO. 3
CLOSE /UP
OPEN/ DOWN
M 2 MOON ROOF CONTROL RELAY
M 5 MOON ROOF MOTOR
M 3 MOON ROOF CONTROL SW
M 4 MOON ROOF LIMIT SW
OPEN
CLOSE
DOWN
UP
NO. 1
NO. 2
D10 DOOR COURTESY SW LH
D11 DOOR COURTESY SW RH
I 4
I 6
B 4
IE
BG

SYSTEM OUTLINE

CURRENT IS APPLIED AT ALL TIMES THROUGH THE **POWER** FUSE TO **TERMINAL 5** OF THE POWER MAIN RELAY AND **TERMINAL 12** OF THE MOON ROOF CONTROL RELAY. WITH THE IGNITION SW TURNED ON, CURRENT FLOWS TO **TERMINAL 1** OF THE POWER MAIN RELAY → **TERMINAL 2** → **GROUND** THROUGH THE **GAUGE** FUSE.

AS A RESULT, POWER MAIN RELAY IS ACTIVATED AND CURRENT TO **TERMINAL 5** OF THE POWER MAIN RELAY FLOWS FROM **TERMINAL 3** OF THE POWER MAIN 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 **OPEN** POSITION, CURRENT FLOWS FROM **TERMINAL 1** OF THE MOON ROOF CONTROL RELAY TO **TERMINAL 3** OF THE MOON ROOF CONTROL SW → **TERMINAL 8** → **GROUND**. THE MOON ROOF LIMIT SW NO.1 OR NO.2 IS ON AT THIS TIME.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND CURRENT TO **TERMINAL 12** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 5** TO **TERMINAL 1** 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 AND THE MOON ROOF LIMIT SW NO.1 AND NO.2 BOTH ON (THE MOON ROOF COMPLETELY OPENING), WHEN THE MOON ROOF CONTROL SW IS PUSHED TO **CLOSE** POSITION, CURRENT FLOWS FROM **TERMINAL 2** OF THE MOON ROOF CONTROL RELAY TO **TERMINAL 4** OF THE MOON ROOF CONTROL SW → **TERMINAL 8** → **GROUND**.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND CURRENT TO **TERMINAL 12** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 4** TO **TERMINAL 3** OF THE MOON ROOF MOTOR → **TERMINAL 1** → **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.

THE MOON ROOF LIMIT SW NO.1 TURNS OFF (LIMIT SW NO.2 IS ON) AND AT **200** MM (**7.874** IN.) BEFORE FULLY AT **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 CONTINUOUS FROM **TERMINAL 12** 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), CURRENT FLOWS FROM **TERMINAL 3** OF THE MOON ROOF CONTROL RELAY TO **TERMINAL 5** OF THE MOON ROOF CONTROL SW → **TERMINAL 8** → **GROUND**. AS A RESULT, THE RELAY IS ACTIVATED AND CURRENT TO **TERMINAL 12** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 4** OF THE RELAY TO **TERMINAL 3** OF THE MOON ROOF MOTOR → **TERMINAL 1** → **TERMINAL 5** OF THE MOON ROOF CONTROL RELAY → **TERMINAL 11** → **GROUND** AND ROTATES 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 (NO.1 AND NO.2 MOON ROOF LIMIT SW ARE BOTH OFF), CURRENT FLOWS FROM **TERMINAL 7** OF THE MOON ROOF CONTROL RELAY TO **TERMINAL 6** OF THE MOON ROOF CONTROL SW → **TERMINAL 8** → **GROUND**.

AS A RESULT, THE RELAY IS ACTIVATED AND CURRENT TO **TERMINAL 12** OF THE MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 5** OF THE RELAY TO **TERMINAL 1** OF THE MOON ROOF MOTOR → **TERMINAL 3** → **TERMINAL 4** OF THE MOON ROOF CONTROL RELAY → **TERMINAL 11** → **GROUND** AND ROTATES 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, LIMIT SW NO.1 IS CHANGED FROM OFF TO ON.)

5. 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 **DOOR** FUSE THROUGH **TERMINAL 8** OF THE RELAY OR FROM THE **GAUGE** FUSE THROUGH **TERMINAL 1** OF THE DOOR LOCK CONTROL RELAY TO **TERMINAL 15** → **TERMINAL 1** OF THE POWER MAIN RELAY → **TERMINAL 2** → **GROUND** FOR ABOUT **60** SECONDS. THE SAME AS NORMAL OPERATION, CURRENT FLOWS FROM THE **POWER** FUSE → **TERMINAL 5** OF THE POWER MAIN RELAY → **TERMINAL 3** → **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY. AS A RESULT, FOR ABOUT **60** SECONDS AFTER THE IGNITION SW IS TURNED OFF, THE FUNCTIONING OF THIS RELAY MAKES IT POSSIBLE TO OPEN AND CLOSE THE MOON ROOF. ALSO, BY OPENING THE FRONT DOOR (DOOR COURTESY SW ON) WITHIN ABOUT **60** SECONDS AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO **TERMINALS 2** OR **14** OF THE DOOR LOCK CONTROL RELAY.

AS A RESULT, THE ECU TURNS OFF, AND OPEN AND CLOSE MOVEMENT OF THE MOON ROOF STOPS.

SERVICE HINTS

POWER MAIN RELAY

3-5 : CLOSED WITH THE IGNITION SW AT **ON** POSITION OR KEY OFF MOON ROOF OPERATION

M 2 MOON ROOF CONTROL RELAY

11-GROUND :ALWAYS CONTINUITY

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

4-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW ON AND THE MOON ROOF CONTROL SW AT **CLOSE** OR **UP** POSITION (EXCEPT APPROX. **200** MM (**7.874** IN.) BEFORE FULLY AT **CLOSED** POSITION)

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

M 3 MOON ROOF CONTROL SW

5-8 : CLOSED WITH THE MOON ROOF CONTROL SW AT **TILT UP** POSITION

4-8 : CLOSED WITH THE MOON ROOF CONTROL SW AT **CLOSE** POSITION

6-8 : CLOSED WITH THE MOON ROOF CONTROL SW AT **TILT DOWN** POSITION

3-8 : CLOSED WITH THE MOON ROOF CONTROL SW AT **OPEN** POSITION

8-GROUND : ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
D 5	32	**D11**	34 (L/B), 35 (C/P)	**M 4**	34 (L/B), 35 (C/P)
D 7	32	**M 2**	34 (L/B), 35 (C/P)	**M 5**	34 (L/B), 35 (C/P)
D10	34 (L/B), 35 (C/P)	**M 3**	34 (L/B), 35 (C/P)		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
ID	20	INSTRUMENT PANEL WIRE AND INPANE J/B (LEFT KICK PANEL)
IE		
IF		
IG		
1C	22	INSTRUMENT PANEL WIRE AND J/B NO.1 (LEFT KICK PANEL)
1E		
1H	22	ROOF WIRE AND J/B NO.1 (LEFT KICK PANEL)
3A	24	INSTRUMENT PANEL WIRE AND J/B NO.3 (BEHIND THE INSTRUMENT PANEL CENTER)
3C		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IG1	42	INSTRUMENT PANEL WIRE AND FLOOR WIRE (LEFT KICK PANEL)
IH1	42	FLOOR WIRE AND INSTRUMENT PANEL WIRE (LEFT KICK PANEL)

: GROUND POINTS

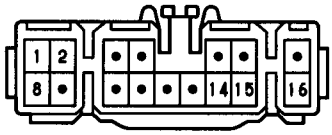
CODE	SEE PAGE	GROUND POINTS LOCATION
IE	42	INSTRUMENT PANEL BRACE LH
BG	46 (L/B)	ROOF LEFT
	48 (C/P)	

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 4	44	INSTRUMENT PANEL WIRE	**B 4**	46 (L/B)	ROOF WIRE
I 6				48 (C/P)	

D 5 BLACK

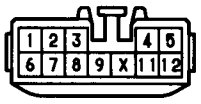
D 7



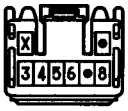
D10

D11

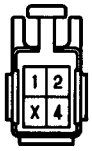
M 2



M 3



M 4



M 5