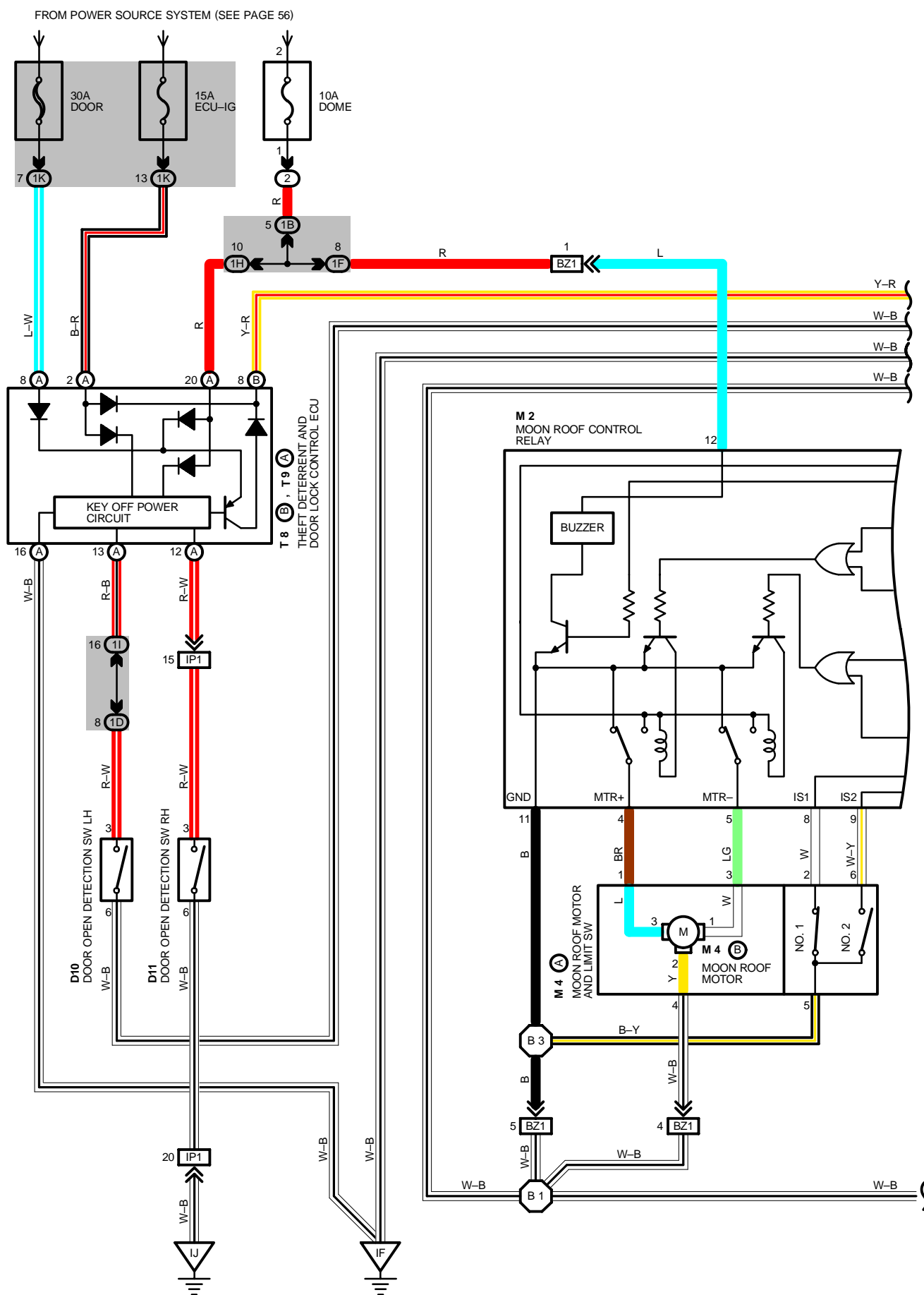
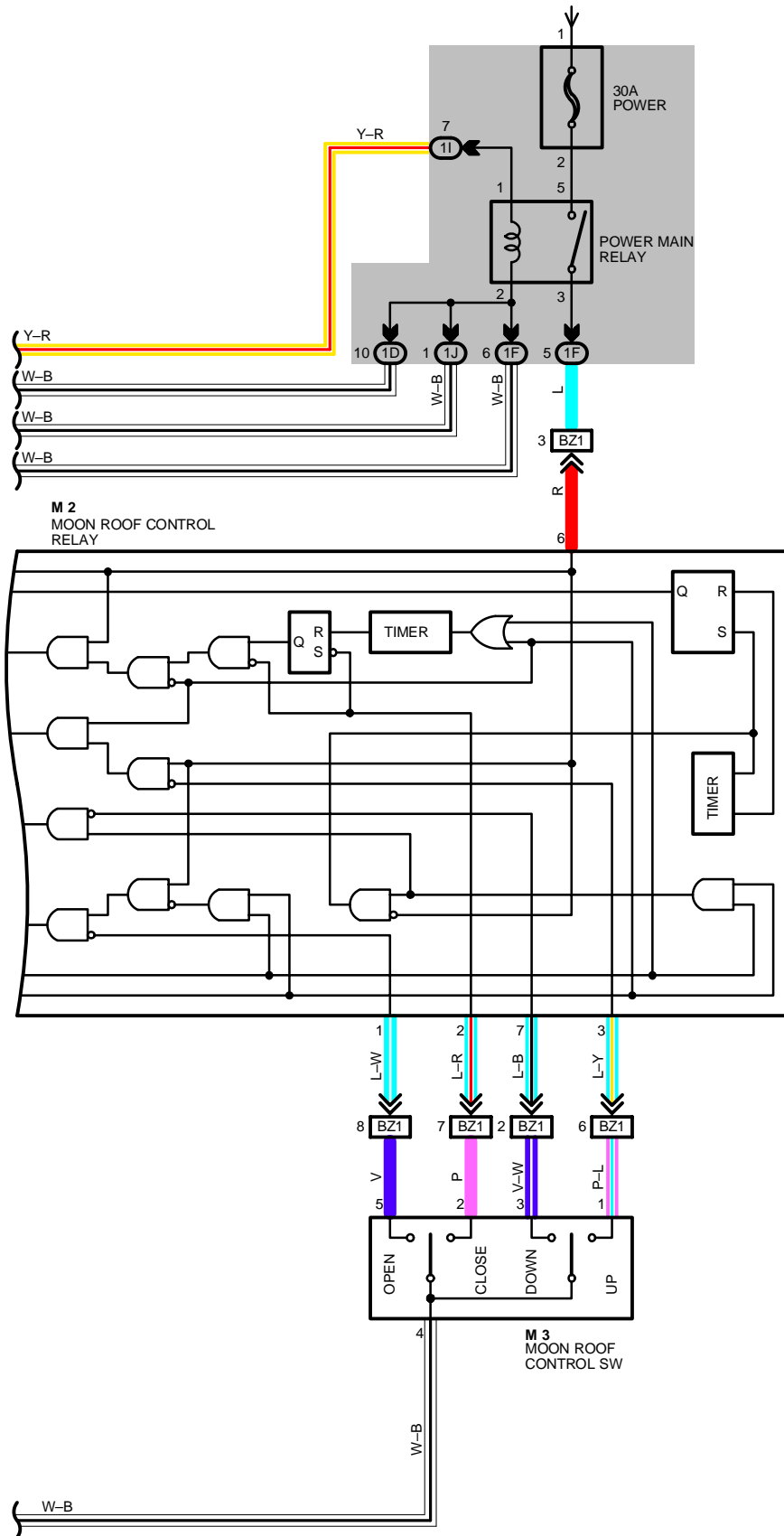


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FROM POWER SOURCE SYSTEM (SEE PAGE 56)



SYSTEM OUTLINE

CURRENT IS APPLIED AT ALL TIMES THROUGH **POWER FUSE** TO **TERMINAL 5** OF POWER MAIN RELAY AND ALSO THROUGH **DOME FUSE** TO **TERMINAL 12** OF MOON ROOF CONTROL RELAY. WITH THE IGNITION SW TURNED ON, THE CURRENT FLOWS **TERMINAL 1** OF POWER MAIN RELAY → **TERMINAL 2** → TO **GROUND** THROUGH **ECU-IG FUSE**. AS A RESULT, POWER MAIN RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 5** OF POWER MAIN RELAY FLOWS FROM **TERMINAL 3** OF RELAY TO **TERMINAL 6** OF 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 5** OF MOON ROOF CONTROL SW TO **TERMINAL 1** OF MOON ROOF CONTROL RELAY. MOON ROOF LIMIT SW NO. 2 IS ON AT THIS TIME.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 5** → **TERMINAL 3** OF MOON ROOF MOTOR → **TERMINAL 1** → **TERMINAL 4** OF MOON ROOF CONTROL RELAY → **TERMINAL 11** → TO **GROUND** AND ROTATES 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 OPEN AND MOON ROOF LIMIT SW NO. 1 AND NO. 2 BOTH ON, WHEN THE MOON ROOF CONTROL SW IS PUSHED TO THE **CLOSE** POSITION A SIGNAL IS INPUT FROM **TERMINAL 2** OF MOON ROOF CONTROL SW TO **TERMINAL 2** OF MOON ROOF CONTROL RELAY.

WHEN THIS OCCURS, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF MOON ROOF CONTROL RELAY FLOWS FROM **TERMINAL 4** → **TERMINAL 1** OF MOON ROOF MOTOR → **TERMINAL 3** → **TERMINAL 5** OF MOON ROOF CONTROL RELAY → **TERMINAL 11** → TO **GROUND** AND ROTATES THE MOTOR TO CLOSE THE MOON ROOF WHILE THE SW IS BEING PUSHED TO **CLOSE** POSITION.

MOON ROOF LIMIT SW NO. 1 TURNS OFF (LIMIT SW NO. 2 IS ON) AND AT **200MM (7.9IN)** BEFORE FULLY **CLOSED** POSITION, SIGNAL IS INPUT FROM **TERMINAL 2** OF LIMIT SW NO. 1 TO **TERMINAL 8** OF MOON ROOF CONTROL RELAY. THIS SIGNAL ACTIVATES THE RELAY AND STOPS CONTINUITY FROM **TERMINAL 6** OF 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 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 LIGHT SW NO.2 IS OFF), A SIGNAL IS INPUT FROM **TERMINAL 1** OF MOON ROOF CONTROL SW TO **TERMINAL 3** OF MOON ROOF CONTROL RELAY. AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF RELAY FLOWS FROM **TERMINAL 4** OF THE RELAY → **TERMINAL 1** OF MOON ROOF MOTOR → **TERMINAL 3** → **TERMINAL 5** OF RELAY → **TERMINAL 11** TO **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 SWITCHES ARE BOTH OFF), A SIGNAL IS INPUT FROM **TERMINAL 3** OF MOON ROOF CONTROL SW TO **TERMINAL 7** OF MOON ROOF CONTROL RELAY.

AS A RESULT, THE RELAY IS ACTIVATED AND THE CURRENT TO **TERMINAL 6** OF RELAY FLOWS FROM **TERMINAL 5** OF RELAY → **TERMINAL 3** OF MOON ROOF MOTOR → **TERMINAL 1** → **TERMINAL 4** OF RELAY → **TERMINAL 11** → TO **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 ON TO OFF, THE THEFT DETERRENT ECU OPERATES AND CURRENT FLOWS FROM **DOOR FUSE** TO **TERMINAL (A)8** OF THE ECU OR **DOME FUSE** TO **TERMINAL (A)20** OF THE ECU → **TERMINAL (B)8** → **TERMINAL 1** OF POWER MAIN RELAY → **TERMINAL 2** → TO **GROUND** FOR ABOUT **60 SECONDS**. THE SAME AS NORMAL OPERATION, THE CURRENT FLOWS FROM **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 DETECT SW ON) WITHIN ABOUT **60 SECONDS** AFTER TURNING THE IGNITION SW TO OFF, A SIGNAL IS INPUT TO **TERMINALS (A)12** OR **(A)13** OF THEFT DETERRENT ECU. AS A RESULT, THE ECU TURNS OFF AND OPEN AND CLOSE MOVEMENT OF THE MOON ROOF STOPS.

6. TILT UP REMINDER SYSTEM

WITH THE IGNITION SW IS TURNED TO ACC OR OFF WITH THE MOON ROOF STILL TILTED UP, KEY OFF MOON ROOF OPERATION CAUSES CURRENT TO FLOW TO **TERMINAL 6** OF THE MOON ROOF CONTROL RELAY FOR A PERIOD OF APPROX. **60** SECONDS OR UNTIL THE DRIVER'S DOOR OR PASSENGER'S DOOR IS OPENED. WHEN KEY OFF MOON ROOF OPERATION ENDS AND THE CURRENT FLOW IS STOPPED, THE MOON ROOF CONTROL RELAY RECEIVES A SIGNAL THAT THE IGNITION SW IS OFF. MOON ROOF LIMIT SW NO. 1 AND NO. 2 ARE OFF AT THIS TIME, SO THE SIGNAL IS INPUT TO **TERMINALS 8 AND 9** OF THE MOON ROOF CONTROL RELAY, INDICATING THAT THE MOON ROOF IS IN THE TILT UP CONDITION. THIS CURRENT TO THE MOON ROOF CONTROL RELAY FLOWS TO **TERMINAL 12** OF RELAY → BUZZER → **TERMINAL 11** → **GROUND**, CAUSING THE BUZZER TO SOUND FOR APPROX. **8** SECONDS. TO INFORM THE DRIVER THAT THE MOON ROOF IS IN THE TILT UP POSITION.

SERVICE HINTS

POWER MAIN RELAY

3-5 : CLOSED WITH IGNITION SW AT **ON** POSITION

M 2 MOON ROOF CONTROL RELAY

11-GROUND : ALWAYS CONTINUITY

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

5-GROUND : APPROX. **12** VOLTS WITH IGNITION SW ON, AND MOON ROOF CONTROL SW AT **CLOSE** OR **UP** POSITION
(EXCEPT APPROX. **100MM (3.94 IN)** BEFORE FULLY **CLOSED** POSITION)

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

M 3 MOON ROOF CONTROL SW

1-4 : CLOSED WITH MOON ROOF CONTROL SW AT **UP** POSITION

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

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

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

4-GROUND : ALWAYS CONTINUITY

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
D10	30	M 3	31	T 8	B 29
D11	30	M 4	A 31	T 9	A 29
M 2	31		B 31		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
2	19	ENGINE COMPARTMENT LEFT

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B	20	ENGINE ROOM MAIN WIRE
1D	20	FRONT DOOR LH WIRE
1F	20	ROOF WIRE
1H	20	COWL WIRE
1I		
1J		
1K		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IP1	38	FRONT DOOR RH WIRE AND COWL WIRE (RIGHT KICK PANEL)
BZ1	40	ROOF WIRE AND MOON ROOF WIRE (FRONT SIDE OF ROOF LEFT)

: GROUND POINTS

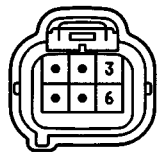
CODE	SEE PAGE	GROUND POINTS LOCATION
IF	36	LEFT KICK PANEL
IJ	36	RIGHT KICK PANEL

: SPLICE POINTS

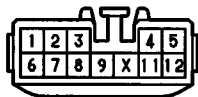
CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
B 1	40	ROOF WIRE	B 3	40	MOON ROOF WIRE

MOON ROOF

D10.D11 GRAY



M 2



M 3



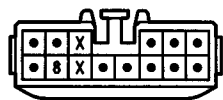
M 4 (A)



M 4 (B)



T 8 (B) ORANGE



T 9 (A) ORANGE

