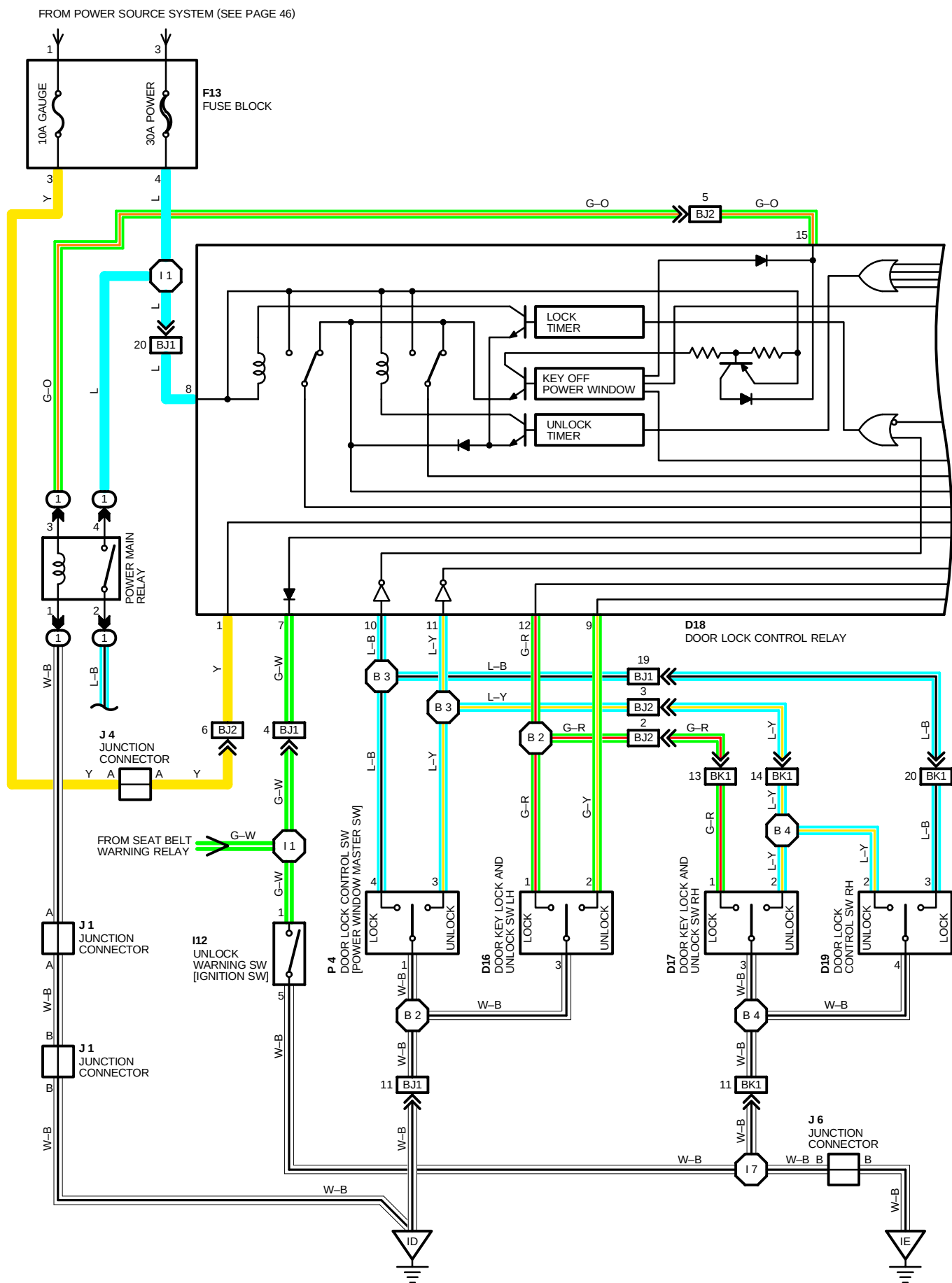
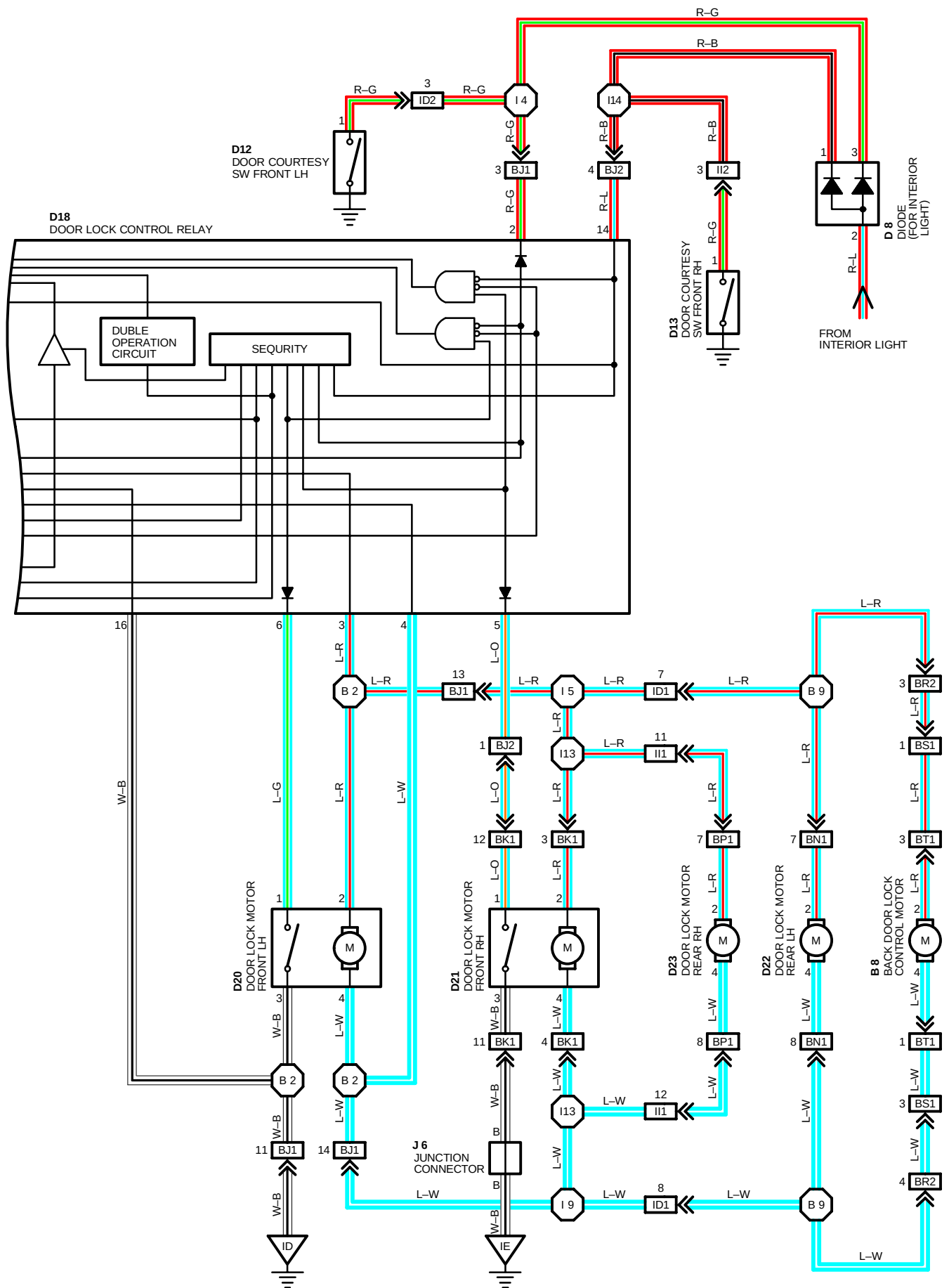


DOOR LOCK





DOOR LOCK

SYSTEM OUTLINE

CURRENT ALWAYS FLOWS TO **TERMINAL 8** OF THE DOOR LOCK CONTROL RELAY THROUGH **POWER FUSE**.

WITH THE IGNITION SW TURNED ON THE CURRENT FLOWS TO **TERMINAL 1** OF THE DOOR LOCK CONTROL RELAY THROUGH **GAUGE FUSE**.

1. MANUAL LOCK OPERATION

TO CHANGE DOOR LOCK CONTROL SW AND KEY SW TO **LOCK** POSITION, A LOCK SIGNAL IS INPUT TO **TERMINAL 10, 12** OF THE DOOR LOCK CONTROL RELAY AND CAUSES THE RELAY TO FUNCTION. CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY → **TERMINAL 4** → **TERMINAL 4** OF THE DOOR LOCK MOTORS → **TERMINAL 2** → **TERMINAL 3** OF THE RELAY → **TERMINAL 16** → TO **GROUND** AND DOOR LOCK MOTOR CAUSES DOOR TO LOCK.

2. MANUAL UNLOCK OPERATION

TO CHANGE DOOR LOCK CONTROL SW AND KEY SW TO **UNLOCK** POSITION, AN UNLOCK SIGNAL IS INPUT TO **TERMINAL 9, 11** OF THE DOOR LOCK CONTROL RELAY AND CAUSES THE RELAY TO FUNCTION. CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY → **TERMINAL 3** → **TERMINAL 2** OF THE DOOR LOCK MOTORS → **TERMINAL 4** → **TERMINAL 4** OF THE RELAY → **TERMINAL 16** → TO **GROUND** AND DOOR LOCK MOTOR CAUSES DOOR TO UNLOCK.

3. DOUBLE OPERATION UNLOCK OPERATION

WHEN THE DOOR LOCK KEY SW (DRIVER'S) IS TURNED TO THE UNLOCK SIDE, ONLY THE DRIVER'S DOOR IS MECHANICALLY UNLOCKED. TURNING THE DOOR LOCK KEY SW (DRIVER'S) TO THE UNLOCK SIDE CAUSES A SIGNAL TO BE INPUT TO **TERMINAL 9** OF THE RELAY, AND IF THE SIGNAL IS INPUT AGAIN WITHIN **3** SECONDS BY TURNING THE SWITCH TO THE UNLOCK SIDE AGAIN, CURRENT FLOWS **TERMINAL 3** → **TERMINAL 2** OF DOOR LOCK MOTORS → **TERMINAL 4** → **TERMINAL 4** OF RELAY → **TERMINAL 16** → **GROUND**, CAUSING THE DOOR LOCK MOTOR TO OPERATE AND UNLOCK THE DOORS.

4. IGNITION KEY REMINDER OPERATION

* OPERATING DOOR LOCK KNOB (OPERATION OF DOOR LOCK MOTORS)

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE DOOR IS OPENED AND LOCKED USING DOOR LOCK KNOB (DOOR LOCK MOTOR), THE DOOR IS LOCKED ONCE BUT EACH DOOR IS UNLOCKED SOON BY THE FUNCTION OF RELAY. AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY → **TERMINAL 3** → **TERMINAL 2** OF THE DOOR LOCK MOTORS → **TERMINAL 4** → **TERMINAL 4** OF THE RELAY → **TERMINAL 16** → TO **GROUND** AND CAUSES ALL THE DOORS TO UNLOCK.

* OPERATING DOOR LOCK CONTROL SW OR DOOR LOCK KEY SW

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE DOOR IS OPENED AND LOCKED USING DOOR LOCK CONTROL SW OR KEY SW, THE DOOR IS LOCKED ONCE BUT EACH DOOR IS UNLOCK BY THE FUNCTION OF SW CONTAINED IN MOTORS, WHICH THE SIGNAL IS INPUT TO **TERMINAL 6** (DRIVER'S) OR **5** (PASSENGER'S) OF THE RELAY. ACCORDING TO THIS INPUT SIGNAL, THE CURRENT IN ECU FLOWS FROM **TERMINAL 8** OF THE RELAY → **TERMINAL 3** → **TERMINAL 2** OF THE DOOR LOCK MOTORS → **TERMINAL 4** → **TERMINAL 4** OF THE RELAY → **TERMINAL 16** → TO **GROUND** AND CAUSES ALL THE DOOR TO UNLOCK.

* IN CASE OF KEY LESS LOCK

WITH IGNITION KEY IN THE CYLINDER (UNLOCK WARNING SW ON), WHEN THE UNLOCK FUNCTION IS DISTURBED MORE THAN **0.2** SECOND, FOR EXAMPLE PUSHING THE DOOR LOCK KNOB ETC., THE DOOR HOLDS ON LOCK CONDITION. CLOSING THE DOOR AFTER, DOOR COURTESY SW INPUTS THE SIGNAL INTO **TERMINAL 2** OR **14** OF THE RELAY. BY THIS INPUT SIGNAL, THE ECU WORK AND CURRENT FLOWS FROM **TERMINAL 8** OF THE RELAY → **TERMINAL 3** → **TERMINAL 2** OF THE DOOR LOCK MOTORS → **TERMINAL 4** → **TERMINAL 4** OF THE RELAY → **TERMINAL 16** → TO **GROUND** AND CAUSES ALL THE DOORS TO UNLOCK.

SERVICE HINTS

D18 DOOR LOCK CONTROL RELAY

- 16-GROUND: ALWAYS CONTINUITY
- 2-GROUND: CONTINUITY WITH DRIVER'S DOOR OPEN
- 8-GROUND: ALWAYS APPROX. 12 VOLTS
- 3-GROUND: APPROX. 12 VOLTS 0.2 SECONDS WITH FLOWING OPERATION
 - * DOOR LOCK CONTROL SW UNLOCKED
 - * DOOR LOCK CONTROL SW LOCKED WITH IGNITION KEY IN CYLINDER AND DRIVER'S DOOR OPEN (IGNITION KEY REMINDER FUNCTION)
 - * DOOR LOCK KNOB LOCKED WITH IGNITION KEY IN CYLINDER AND DRIVER'S DOOR OPEN (IGNITION KEY REMINDER FUNCTION)
 - * UNLOCKING THE DRIVER'S, PASSENGER'S DOOR CYLINDER WITH KEY
- 4-GROUND: APPROX. 12 VOLTS 0.2 SECONDS WITH FLOWING OPERATION
 - * DOOR LOCK CONTROL SW LOCKED
 - * LOCKING THE DRIVER'S, PASSENGER'S DOOR CYLINDER WITH KEY
- 10-GROUND: 0 VOLTS WITH DOOR LOCK CONTROL SW LOCKED
- 14-GROUND: CONTINUITY WITH PASSENGER'S DOOR OPEN
- 6-GROUND: CONTINUITY WITH DRIVER'S DOOR LOCK KNOB UNLOCKED
- 5-GROUND: CONTINUITY WITH PASSENGER'S DOOR LOCK KNOB UNLOCKED
- 11-GROUND: 0 VOLTS WITH DOOR LOCK CONTROL SW UNLOCKED, PASSENGER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY
- 1-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION
- 9-GROUND: 0 VOLTS WITH DRIVER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY
- 12-GROUND: 0 VOLTS WITH DRIVER'S, PASSENGER'S DOOR LOCK CYLINDER LOCKED WITH KEY

I12 UNLOCK WARNING SW (IGNITION SW)

- 1 - 5: CLOSED WITH IGNITION KEY IN CYLINDER

D16, D17 DOOR KEY LOCK AND UNLOCK SW

- 2 - 3: CLOSED WITH DOOR LOCK CYLINDER UNLOCKED WITH KEY
- 1 - 3: CLOSED WITH DOOR LOCK CYLINDER LOCKED WITH KEY

D12, D13 DOOR COURTESY SW

- 1-GROUND: CLOSED WITH DOOR OPEN



: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
B 8	24	D18	24	F13	23
D 8	23	D19	24	I12	23
D12	24	D20	24	J 1	23
D13	24	D21	24	J 4	23
D16	24	D22	24	J 6	23
D17	24	D23	24	P 4	24



: 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)
ID1	28	COWL WIRE AND FLOOR NO. 1 WIRE (LEFT KICK PANEL)
ID2		
II1	28	COWL WIRE AND FLOOR NO. 2 WIRE (RIGHT KICK PANEL)
II2		
BJ1	30	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)
BJ2		
BK1	30	FRONT DOOR RH WIRE AND COWL WIRE (RIGHT KICK PANEL)
BN1	30	REAR DOOR LH WIRE AND FLOOR NO. 1 WIRE (LEFT CENTER PILLAR)
BP1	30	REAR DOOR RH WIRE AND FLOOR NO. 2 WIRE (RIGHT CENTER PILLAR)
BR2	30	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE (LEFT QUARTER PANEL INNER)
BS1	30	BACK DOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 1 WIRE (LEFT REAR SIDE OF ROOF)
BT1	30	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE (BACK DOOR LEFT)



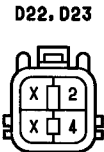
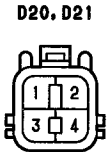
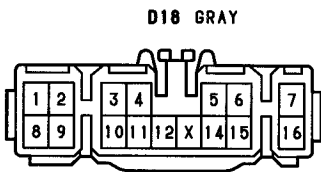
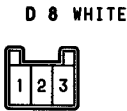
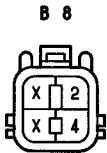
: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
ID	28	LEFT KICK PANEL
IE	28	RIGHT KICK PANEL

DOOR LOCK

 : SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 1	28	COWL WIRE	I14	28	COWL WIRE
I 4			B 2	32	FRONT DOOR LH WIRE
I 5			B 3		
I 7			B 4	32	FRONT DOOR RH WIRE
I 9			B 9	32	FLOOR NO. 1 WIRE
I13					



F13
(SEE PAGE 20)

