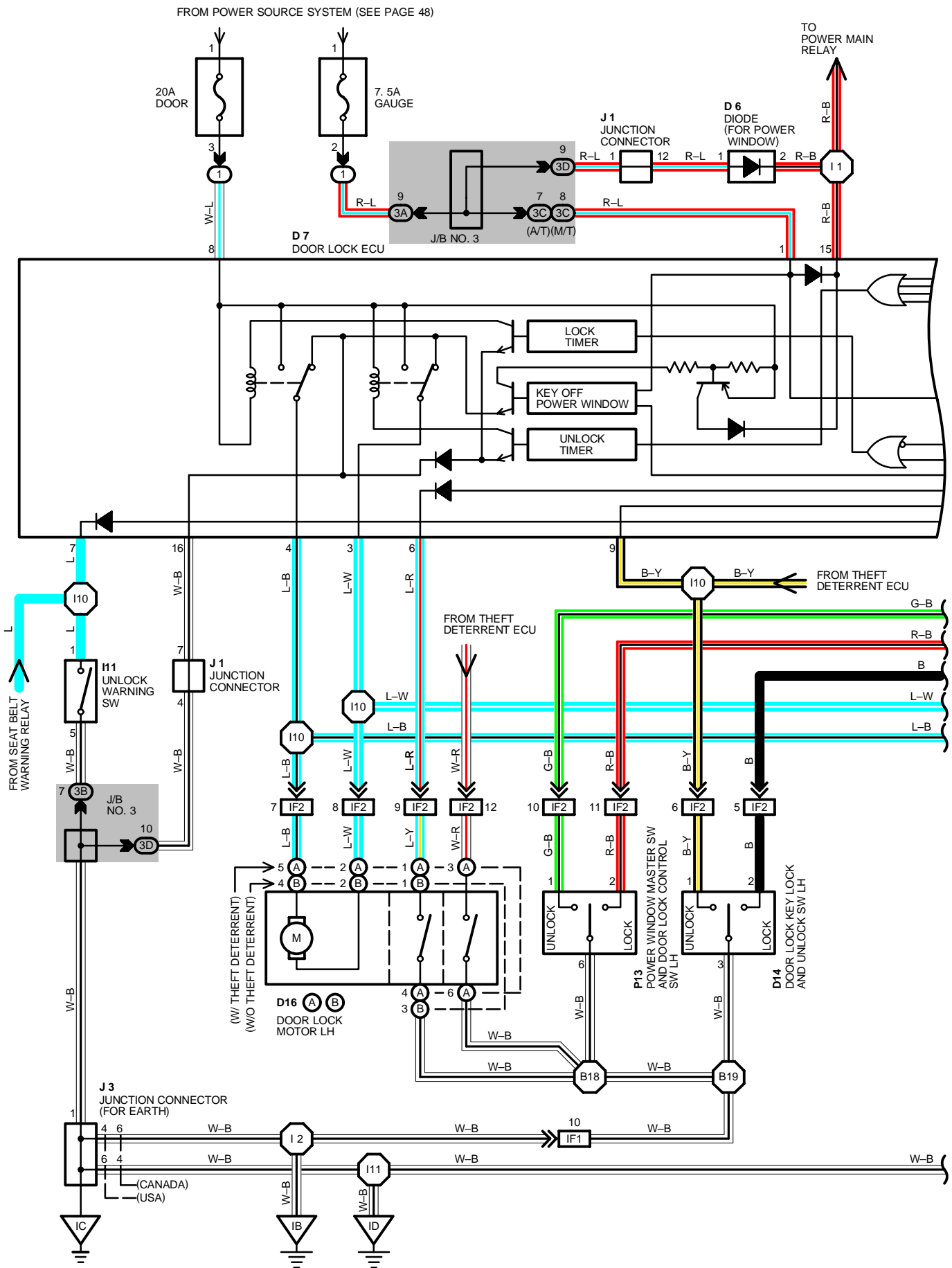
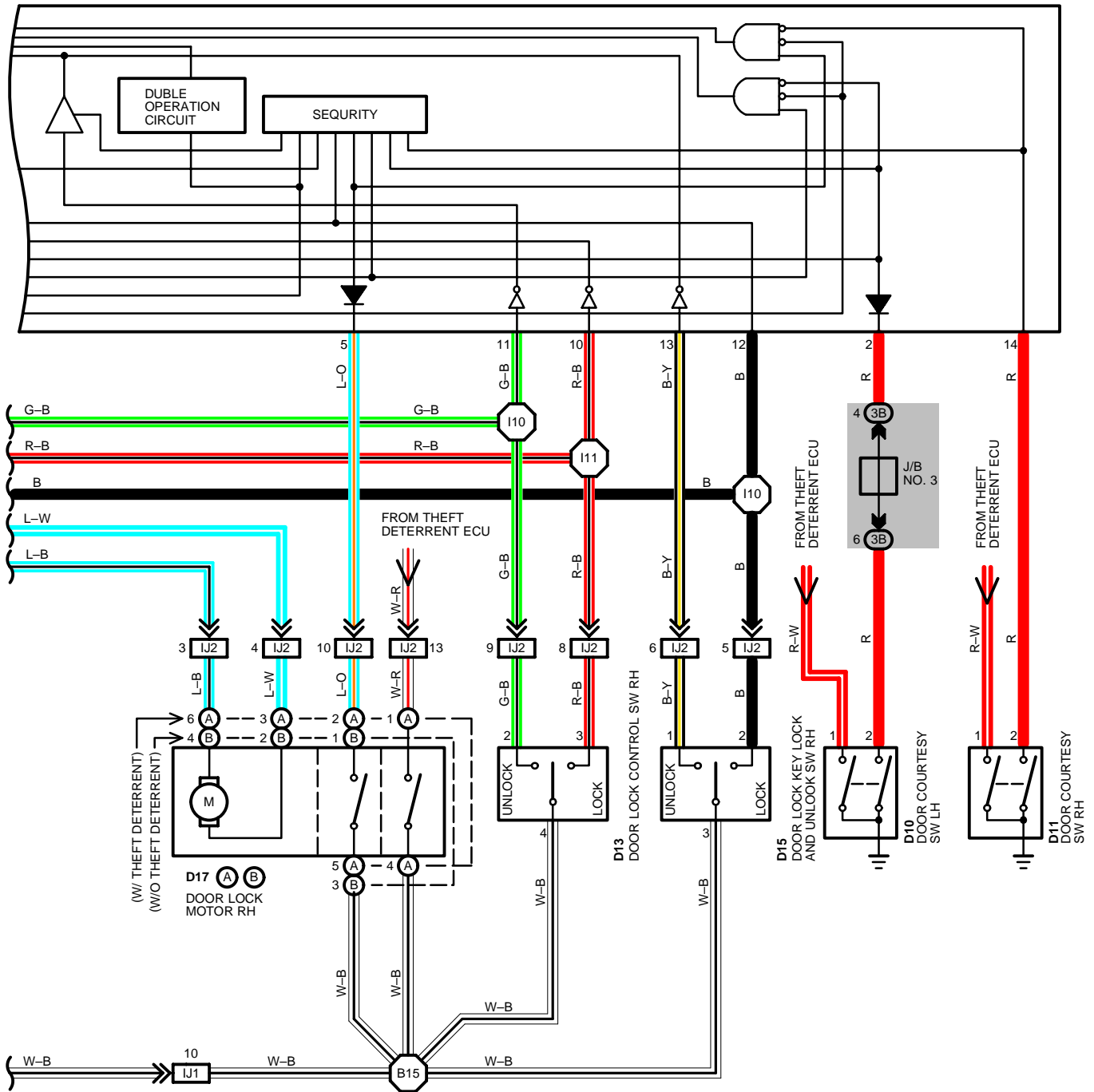


# DOOR LOCK



D7  
DOOR LOCK ECU



# DOOR LOCK

## SYSTEM OUTLINE

CURRENT ALWAYS FLOWS TO **TERMINAL 8** OF THE DOOR LOCK ECU THROUGH THE **DOOR FUSE**.

WITH THE IGNITION SW TURNED ON, CURRENT FLOWS THROUGH THE GAUGE FUSE TO **TERMINAL 1** OF THE DOOR LOCK ECU AND **TERMINAL 1** OF DIODE → **TERMINAL 2** → **TERMINAL 15** OF DOOR LOCK ECU.

### 1. MANUAL LOCK OPERATION

TO CHANGE DOOR LOCK SW AND KEY SW TO **LOCK** POSITION, A LOCK SIGNAL IS INPUT TO **TERMINALS 10, 12** OF THE DOOR LOCK ECU AND CAUSES THE ECU TO FUNCTION. CURRENT FLOWS FROM **TERMINAL 8** OF THE ECU → **TERMINAL 4** → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** OF THE DOOR LOCK MOTORS → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** → **TERMINAL 3** OF THE ECU → **TERMINAL 16** → TO **GROUND** AND DOOR LOCK MOTORS CAUSES THE DOOR LOCK.

### 2. MANUAL UNLOCK OPERATION

TO CHANGE DOOR LOCK CONTROL SW AND KEY SW TO **UNLOCK** POSITION, AN UNLOCK SIGNAL IS INPUT TO **TERMINALS 11, 13** OF THE DOOR LOCK ECU, AND CAUSES THE ECU TO FUNCTION. CURRENT FLOWS FROM **TERMINAL 8** OF THE ECU → **TERMINAL 3** → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** OF THE DOOR LOCK MOTORS → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** → **TERMINAL 4** OF THE ECU → **TERMINAL 16** → TO **GROUND** AND DOOR LOCK MOTORS 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 ECU, AND IF THE SIGNAL IS INPUT AGAIN WITHIN 3 SECONDS BY TURNING THE SWITCH TO THE UNLOCK SIDE AGAIN CURRENT FLOWS FROM **TERMINAL 3** OF THE ECU → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** OF DOOR LOCK MOTORS → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** → **TERMINAL 4** OF THE ECU → **TERMINAL 16** → **GROUND**, CAUSING THE DOOR LOCK MOTOR TO OPERATE AND UNLOCK THE PASSENGER'S DOOR.

### 4. IGNITION KEY REMINDER OPERATION

\* OPERATING DOOR LOCK KNOB (IN DOOR LOCK MOTORS OPERATION)

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 THE ECU. AS A RESULT, THE CURRENT FLOWS FROM **TERMINAL 8** OF THE ECU → **TERMINAL 3** → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** OF THE DOOR LOCK MOTORS → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** → **TERMINAL 4** OF THE ECU → **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 ECU. ACCORDING TO THIS INPUT SIGNAL, THE CURRENT IN THE ECU FLOWS FROM **TERMINAL 8** OF THE ECU → **TERMINAL 3** → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** OF THE DOOR LOCK MOTORS → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** → **TERMINAL 4** OF THE ECU → **TERMINAL 16** → TO **GROUND** AND CAUSES ALL THE DOORS TO UNLOCK.

\* IN CASE OF KEY LESS LOCK

WITH IGNITION KEY IN CYLINDER (UNLOCK WARNING SW ON), WHEN THE UNLOCK FUNCTION IS DISTURBED MORE THAN **0.2** SECONDS, 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 ECU. BY THIS INPUTS SIGNAL, THE ECU WORKS AND CURRENT FLOWS FROM **TERMINAL 8** OF THE ECU → **TERMINAL 3** → **TERMINAL (A)2 (LH), (A)3 (RH) (W/ THEFT DETERRENT), (B)2 (W/O THEFT DETERRENT)** OF THE DOOR LOCK MOTORS → **TERMINAL (A)5 (LH), (A)6 (RH) (W/ THEFT DETERRENT), (B)4 (W/O THEFT DETERRENT)** → **TERMINAL 4** OF THE ECU → **TERMINAL 16** → TO **GROUND** AND CAUSES ALL THE DOORS TO UNLOCK.

## SERVICE HINTS

### D6 DOOR LOCK ECU

- 16-GROUND: ALWAYS CONTINUITY  
 2-GROUND: CONTINUITY WITH DRIVER'S DOOR OPEN  
 8-GROUND: ALWAYS APPROX. 12 VOLTS  
 3-GROUND: APPROX. 12 VOLTS FOR 0.2 SECONDS WITH FOLLOWING OPERATIONS:  
 \* 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 A KEY  
 4-GROUND: APPROX. 12 VOLTS 0.2 SECONDS WITH FOLLOWING OPERATION:  
 \* DOOR LOCK CONTROL SW IS LOCKED  
 \* LOCKING THE DRIVER'S PASSENGER'S DOOR CYLINDER WITH KEY  
 10-GROUND: CONTINUITY 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: CONTINUITY WITH DOOR LOCK CONTROL SW UNLOCKED  
 13-GROUND: CONTINUITY WITH PASSENGER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY  
 7-GROUND: CONTINUITY WITH IGNITION KEY IN THE KEY CYLINDER  
 1-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION  
 9-GROUND: CONTINUITY WITH DRIVER'S DOOR LOCK CYLINDER UNLOCKED WITH KEY  
 15-GROUND: APPROX. 12 VOLTS WITH IGNITION SW AT ON POSITION AND STAYS AT 12 VOLTS FOR 60 SECONDS AFTER THE IGNITION SW IS TURNED OFF, BUT IF A DOOR IS OPENED IN THIS 60 SECOND PERIOD, VOLTAGE WILL DROP TO 0 VOLTS  
 12-GROUND: CONTINUITY WITH DRIVER'S, PASSENGER'S DOOR LOCK CYLINDER LOCKED WITH KEY

### I11 UNLOCK WARNING SW

- 1-5: CLOSED WITH IGNITION KEY IN CYLINDER

### D14, D15 KEY LOCK AND UNLOCK SW

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

### D10, D11 DOOR COURTESY SW

- 2-GROUND: CLOSED WITH DOOR OPEN

## ○ : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
D 6	26	D14	27	D17 B	27
D 7	26	D15	27	I11	26
D10	27	D16	A	J 1	26
D11	27		B	J 3	26
D13	27	D17	A	P13	27

## ○ : RELAY BLOCKS

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

## ○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
3A	22	COWL WIRE AND J/B NO. 3 (BEHIND COMBINATION METER)
3B		
3C		
3D		

## □ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IF1	32	COWL WIRE AND FRONT DOOR LH WIRE (LEFT KICK PANEL)
IF2	32	FRONT DOOR LH WIRE AND COWL WIRE (LEFT KICK PANEL)
IJ1	34	COWL WIRE AND FRONT DOOR RH WIRE (RIGHT KICK PANEL)
IJ2	34	FRONT DOOR RH WIRE AND COWL WIRE (RIGHT KICK PANEL)

## ▽ : GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IB	32	LEFT KICK PANEL
IC	32	INSTRUMENT PANEL BRACE LH
ID	32	RIGHT KICK PANEL

# DOOR LOCK

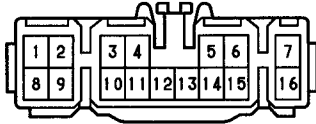
 : SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I1	34	COWL WIRE	B15	36	FRONT DOOR RH WIRE
I2			B18	36	FRONT DOOR LH WIRE
I10			B19		
I11					

D 6 BLACK



D 7



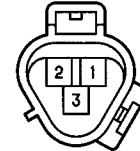
D10, D11



D13



D14, D15 GRAY



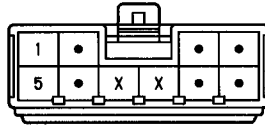
D16 (A), D17 (A)



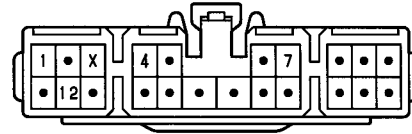
D16 (B), D17 (B)



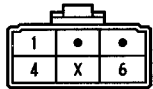
I11 BLACK



J 1



J 3



P13

