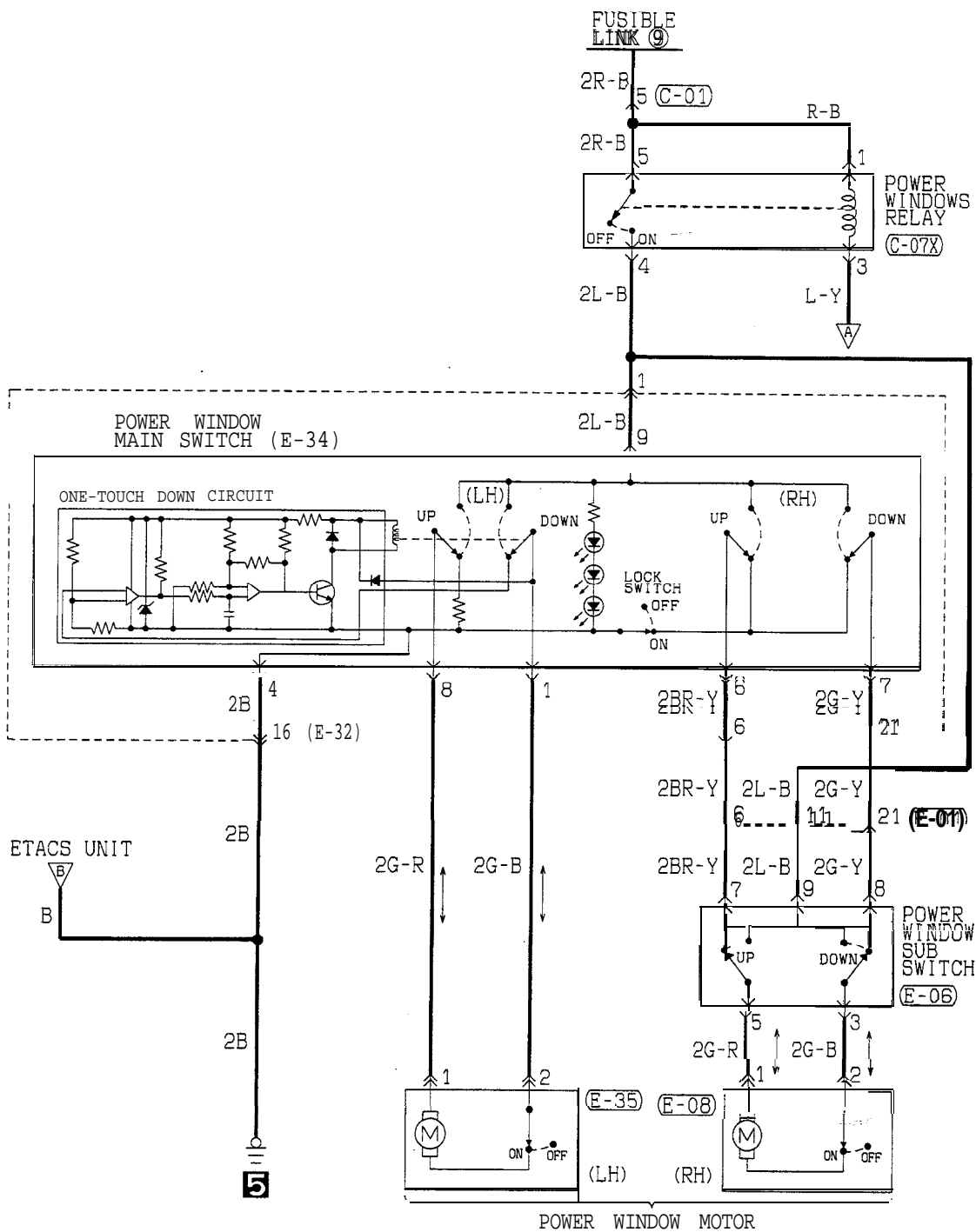
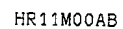
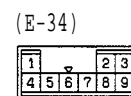
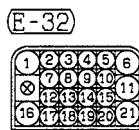
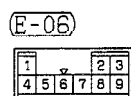
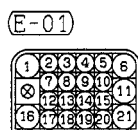
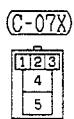
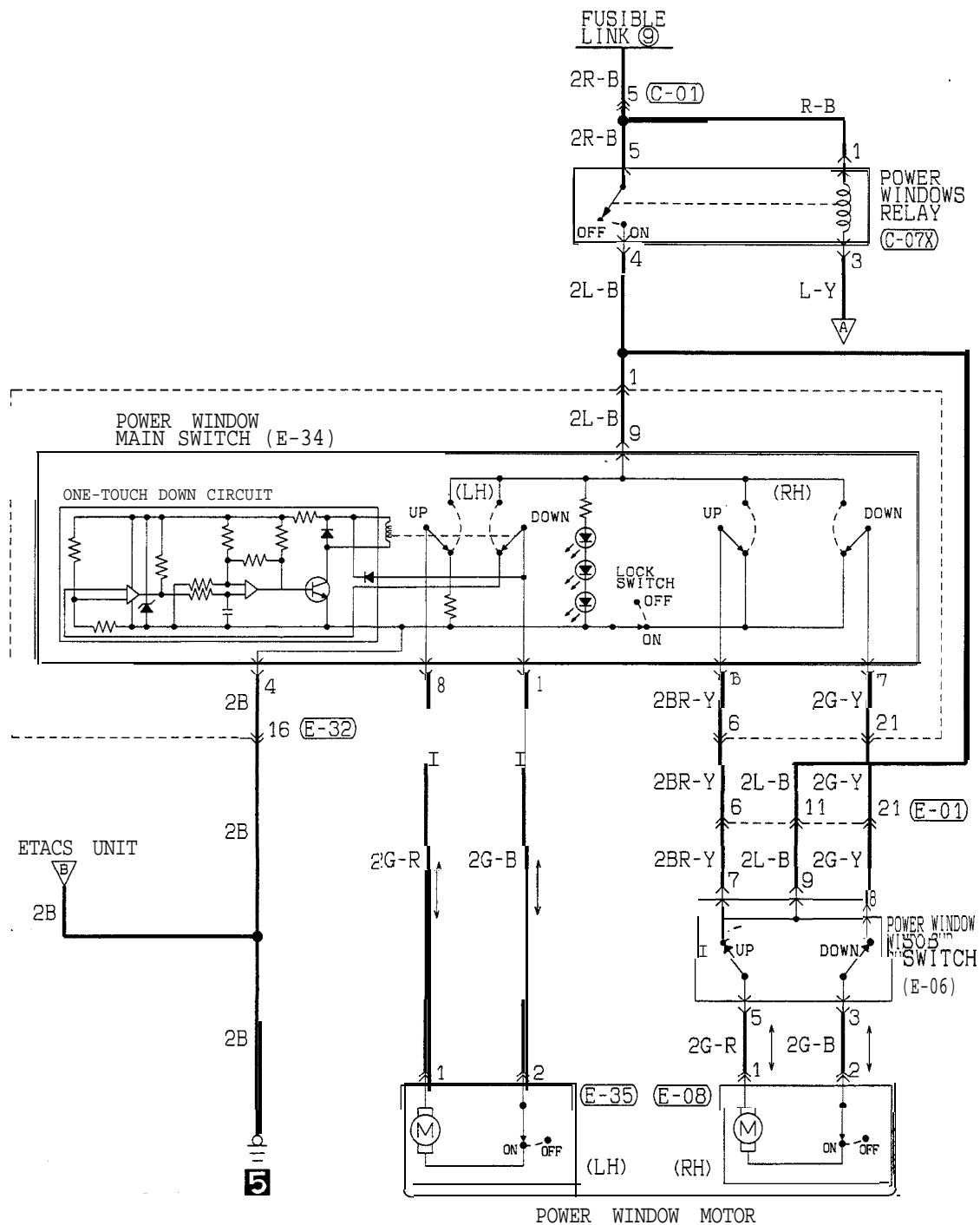


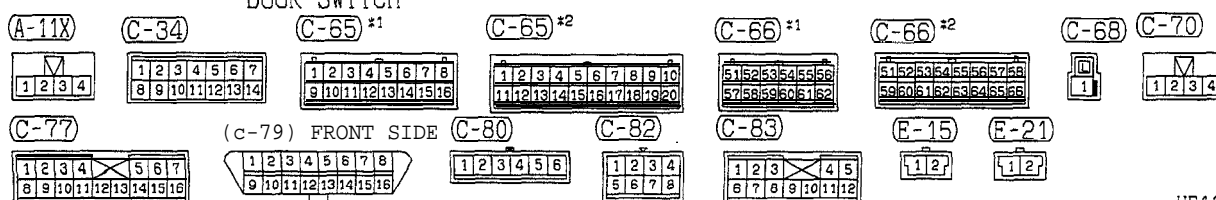
POWER WINDOW CIRCUIT (UP TO 1993 MODELS)



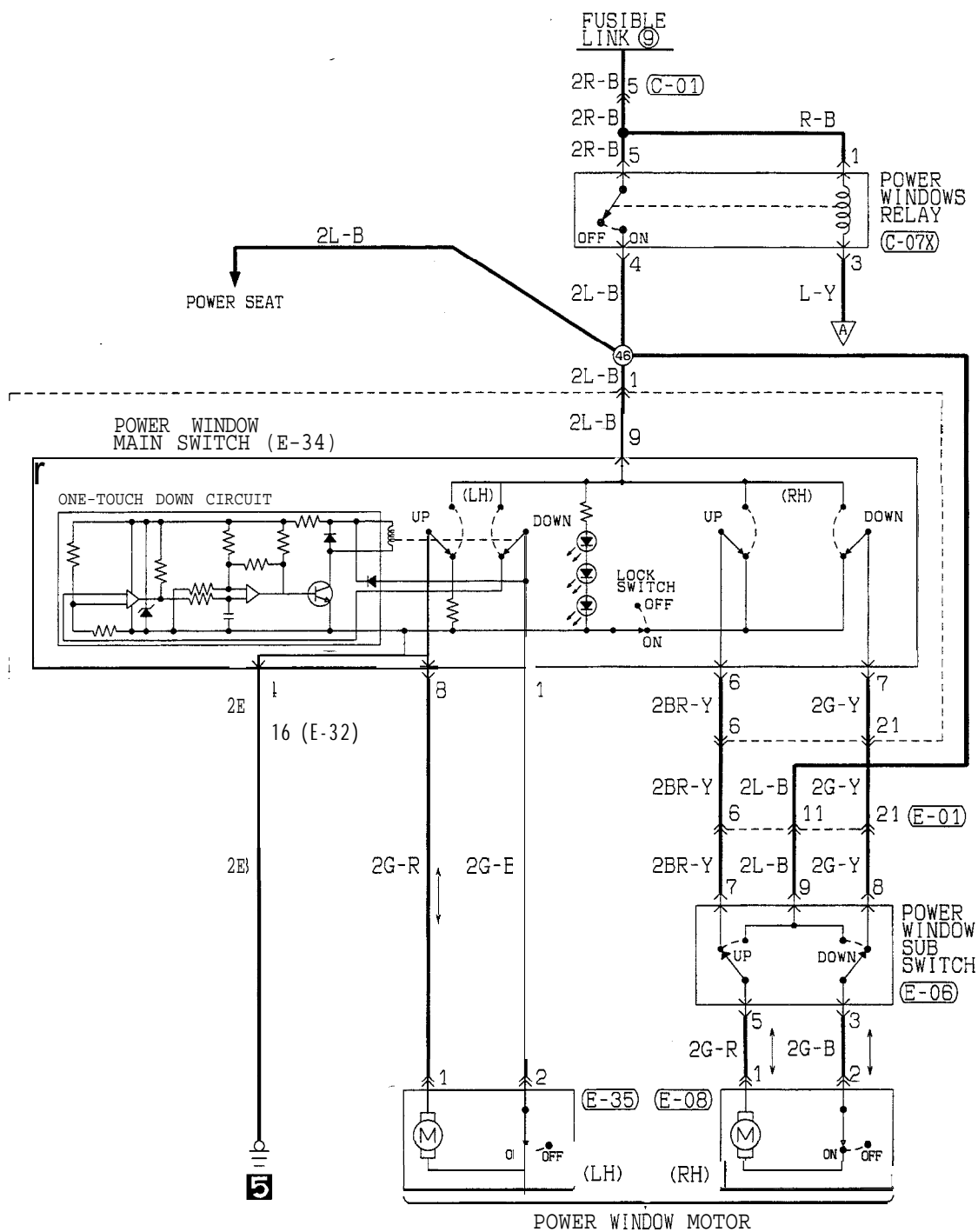


POWER WINDOW CIRCUIT (1994 MODELS)





POWER WINDOW- CIRCUIT (1995 MODELS)



(C-01)

(C-07X)

(E-01)

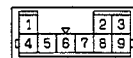
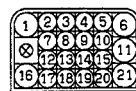
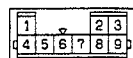
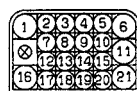
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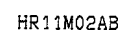
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(E-32)

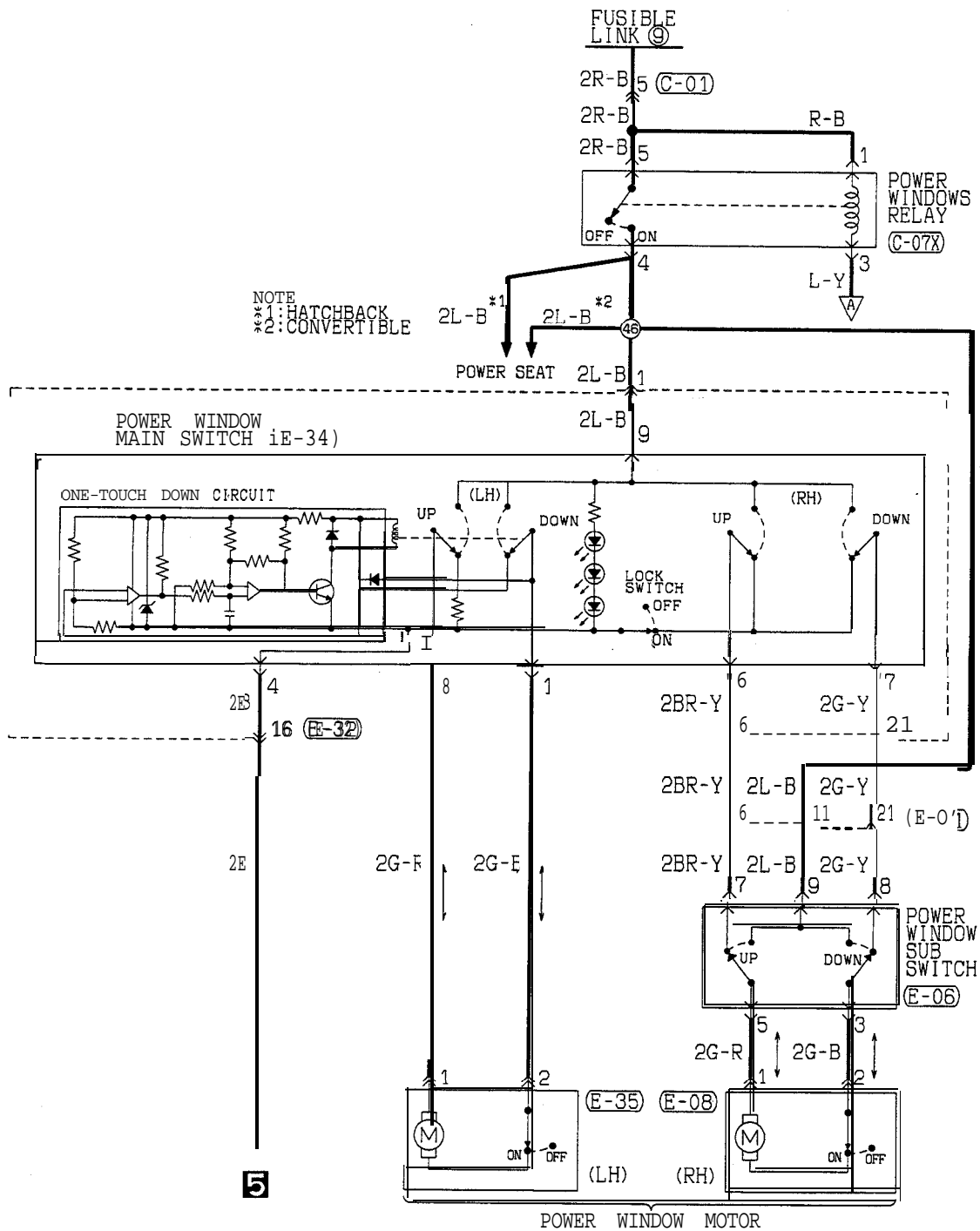
(E-34)

(E-35)



**TSB Revision**

POWER WINDOW CIRCUIT (FROM 1996 MODELS)



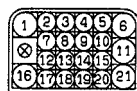
C-01



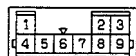
C-07X



E-01



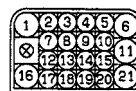
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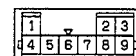
E-08



E-32

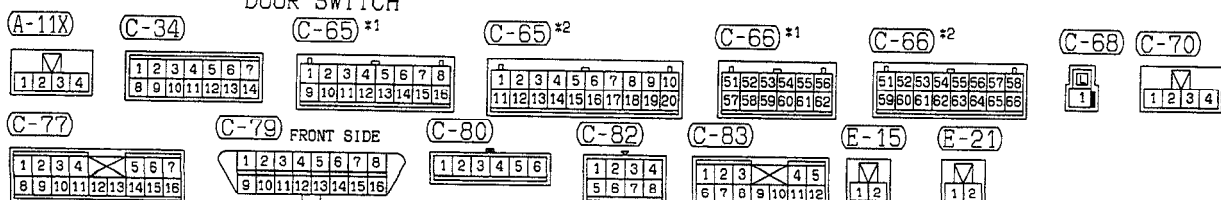
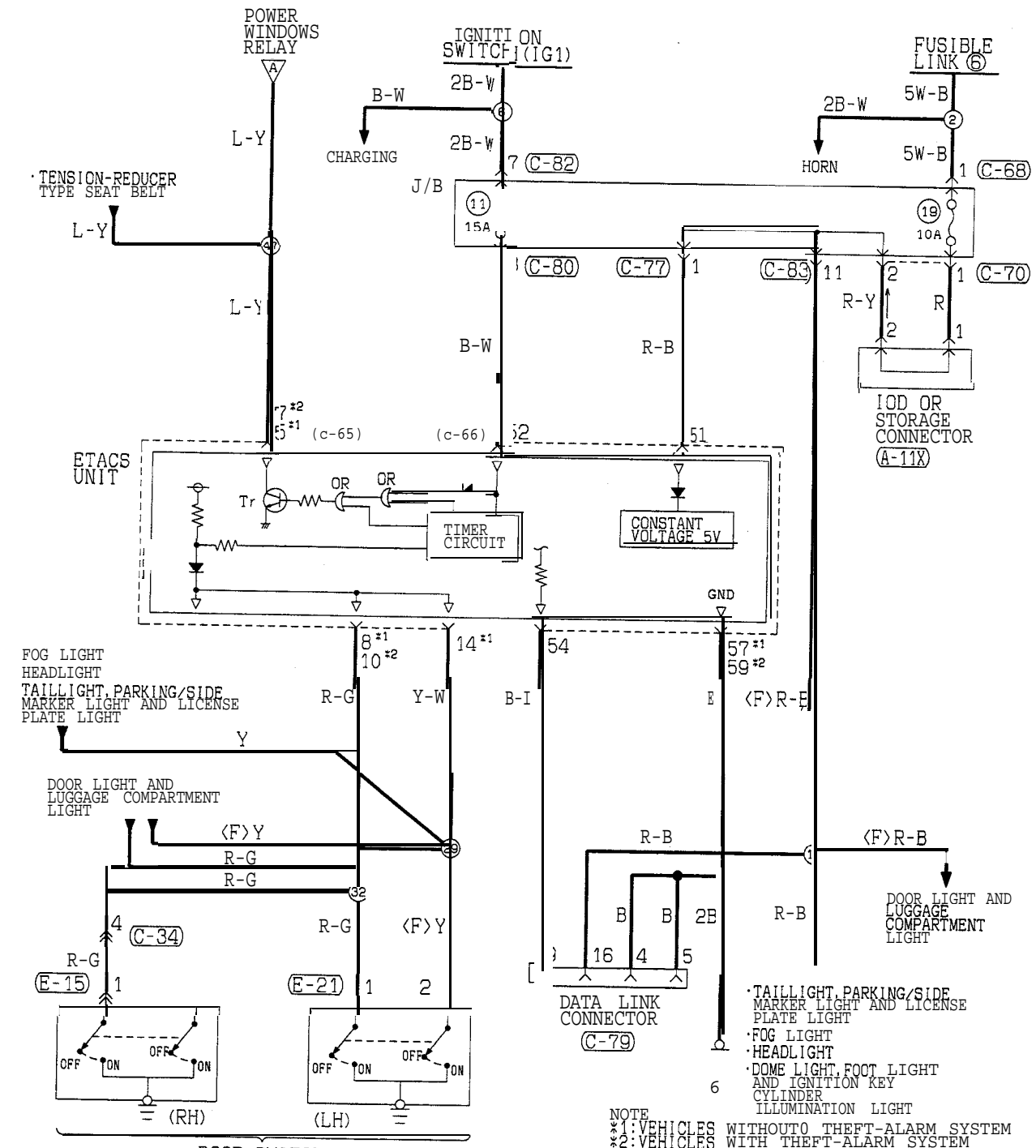


E-34



E-35



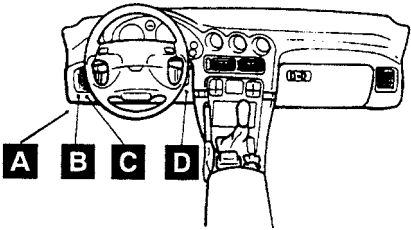


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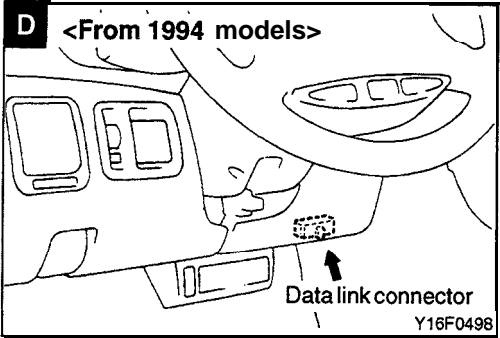
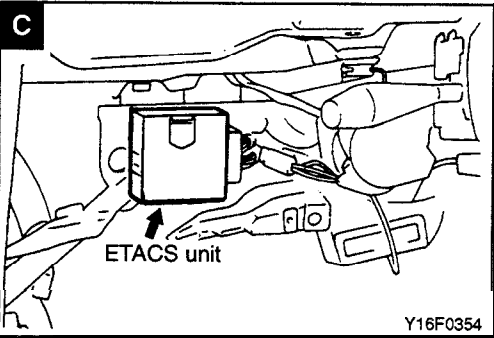
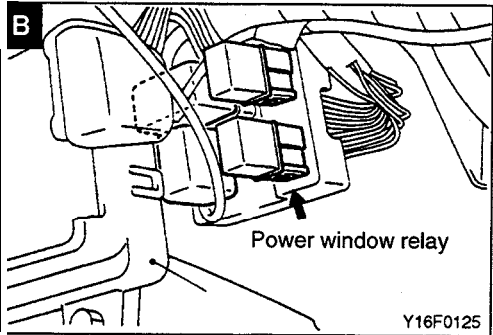
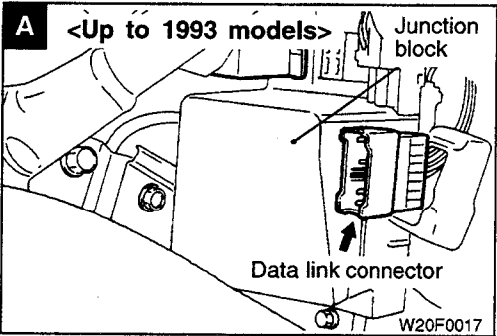
TSB Revision

COMPONENT LOCATION

Name	Symbol	Name	Symbol
Data link connector (up to 1993 models)	A	ETACS unit	C
Data link connector (from 1994 models)	D	Power window relay	B



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OPERATION

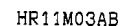
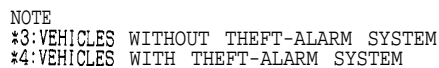
- Turn on the ignition switch, and the transistor Tr will be turned on by the timer circuit. This will turn on the power window relay allowing the power window to be opened and closed.
 - Turn the ignition switch from on to off, and the timer circuit will be activated to keep transistor Tr on for 30 seconds allowing the power window to be opened and closed.
- Moreover, if the front door is opened, the timer circuit will **stop** to turn off the transistor Tr. This will prevent the window from being opened and closed.

TROUBLESHOOTING HINTS

Phenomenon		Inspection method
All door windows cannot be opened or closed.		<ul style="list-style-type: none"> • Check fusible link No. 9. • Check the power-window relay. • Check the power-window main switch.
One of the door windows cannot be opened or closed.	Neither of the power-window switches (main or sub) operates	<ul style="list-style-type: none"> • Check the power-window main switch. • Check the power-window motor for the power window that does not operate.
	Either the power-window main switch or sub switch does not operate.	<ul style="list-style-type: none"> • Check the power-window switch for the power window that does not operate.
The one-touch down switch function only does not operate.		<ul style="list-style-type: none"> • Replace the power-window main switch.
The power windows do not operate when the ignition switch is at the "ON" position.		<ul style="list-style-type: none"> • Check the ignition switch input signal. (Refer to GROUP 42–Troubleshooting.) • Check the ignition switch. (Refer to GROUP 54–Ignition Switch.) • Check the power window relay. (Refer to GROUP 42–Power Window)
The power windows can be opened and closed immediately after ignition switch is switched "OFF", but the power window operation does not stop if a front door is opened within 30 seconds.		<ul style="list-style-type: none"> • Check the front door switch input signal. (Refer to GROUP 42–Troubleshooting.) • Check the front door switch. (Refer to GROUP 42–Door Assembly.)
The opening and closing operations of the power windows are possible after the timer operation time has elapsed when the ignition switch is set to the "OFF" position.		<ul style="list-style-type: none"> • Check the power window relay. (Refer to GROUP 42–Power Window.)

(Vehicles without keyless entry system)

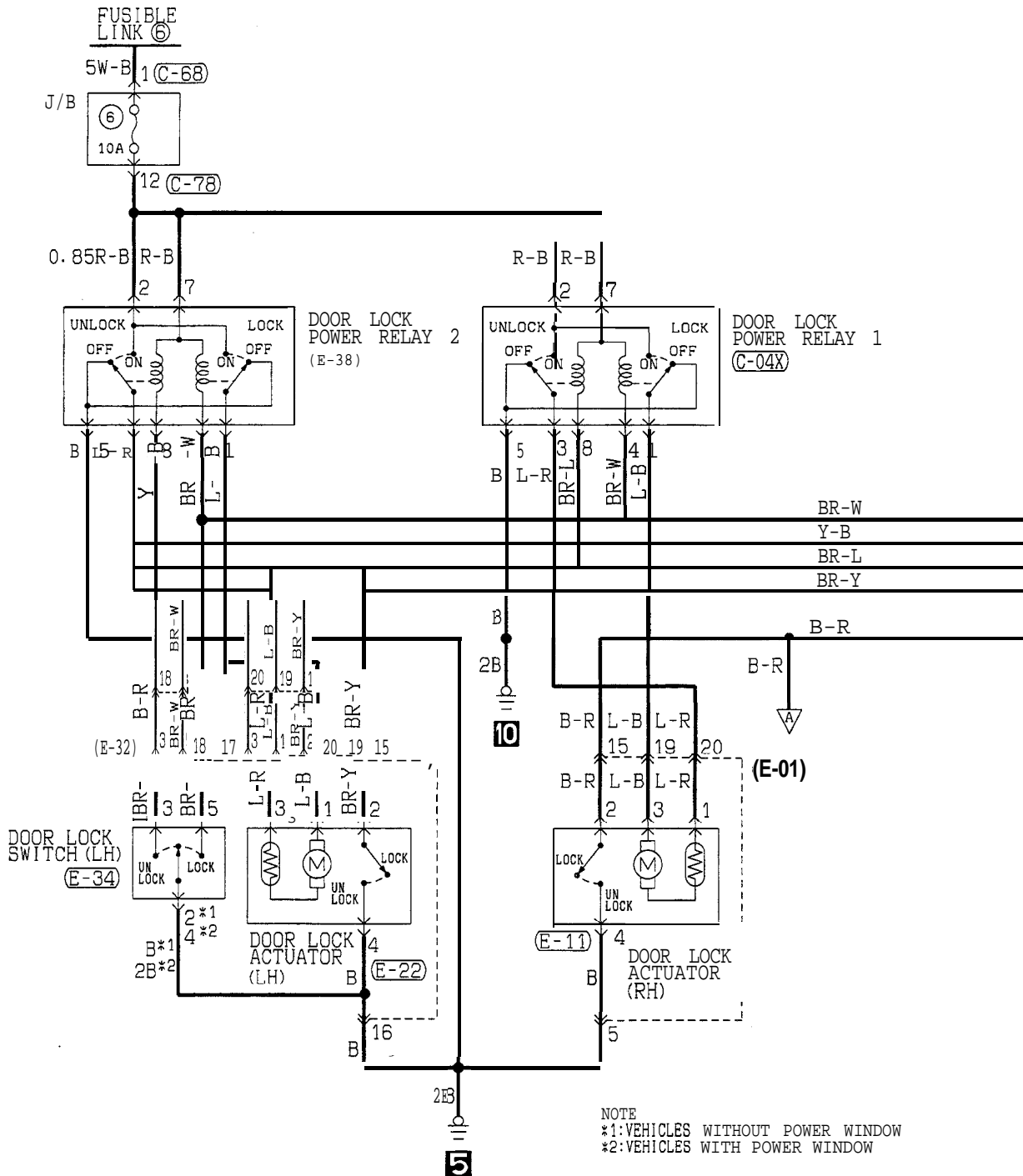
NOTE
*1:VEHICLES WITHOUT POWER WINDOW
*2:VEHICLES WITH POWER WINDOW



TSB Revision

CENTRAL DOOR LOCKING CIRCUIT (UP TO 1993 MODELS)

(Vehicles with keyless entry system)



C-04X

C-68

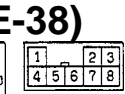
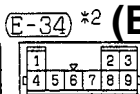
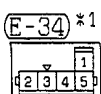
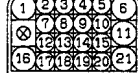
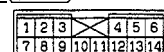
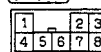
C-78

E-01

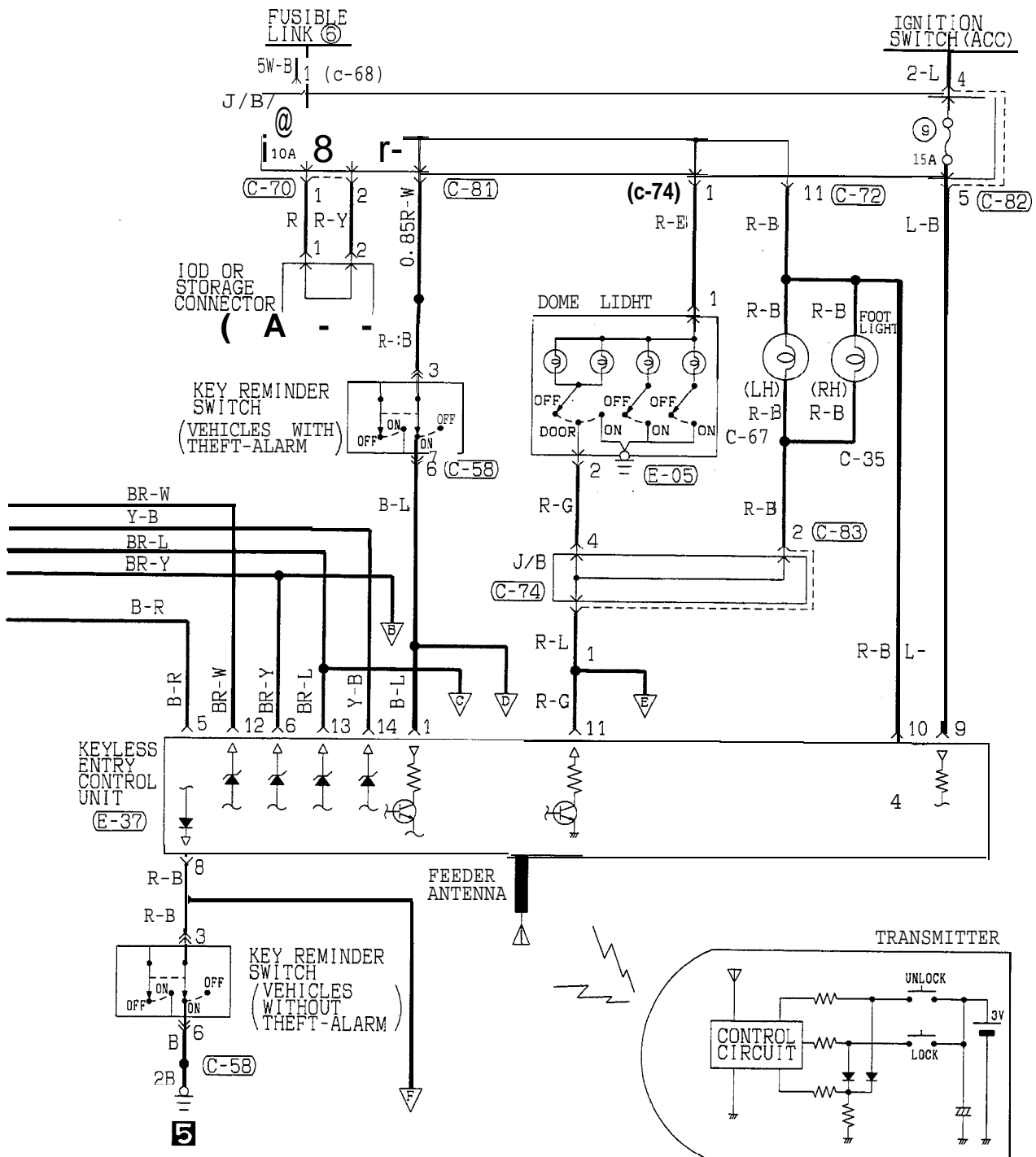
E-11

E-22

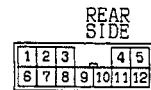
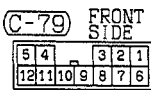
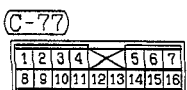
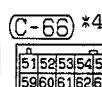
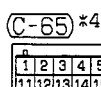
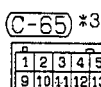
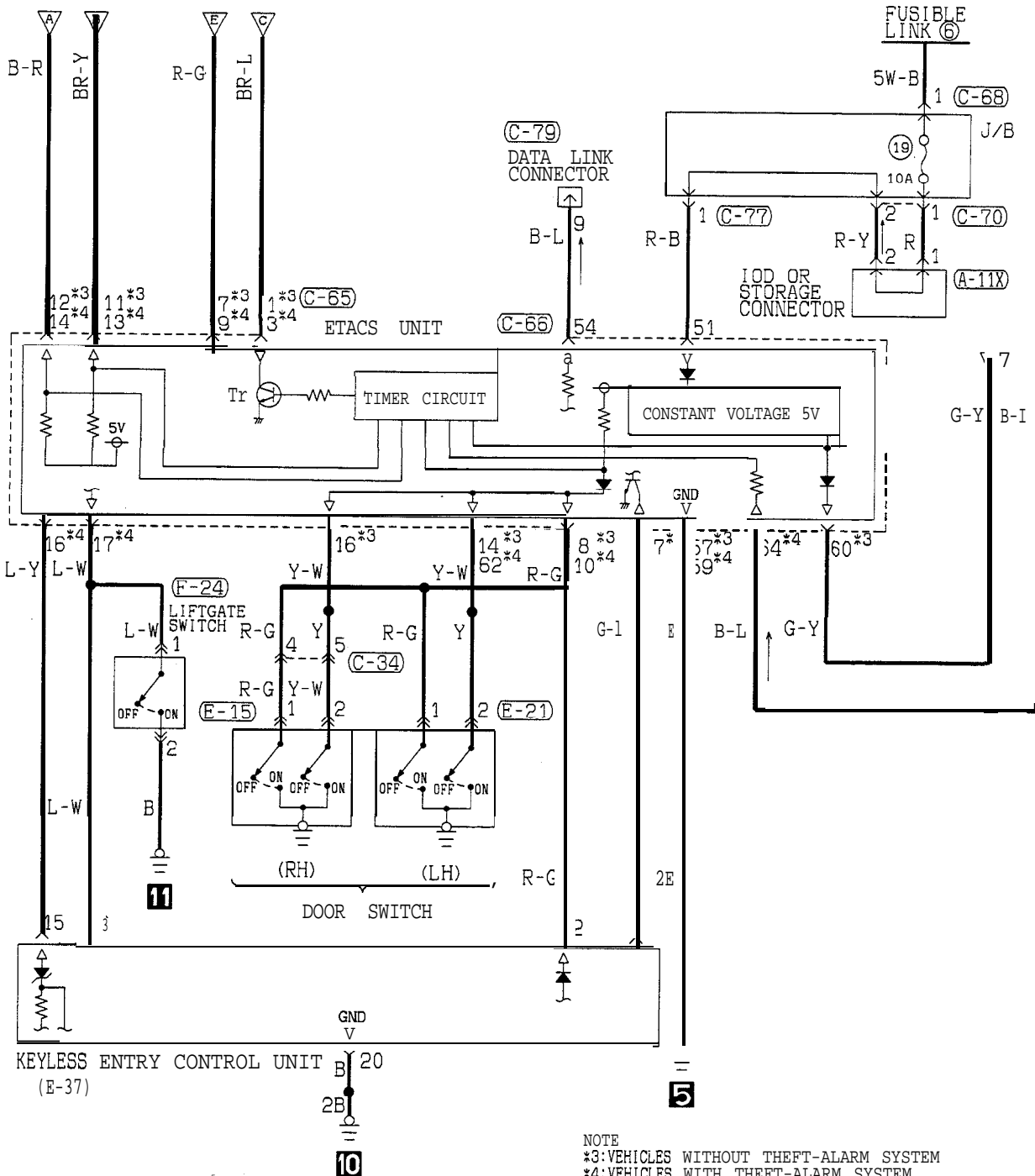
E-32



E-34 *1 E-34 *2 (E-38)

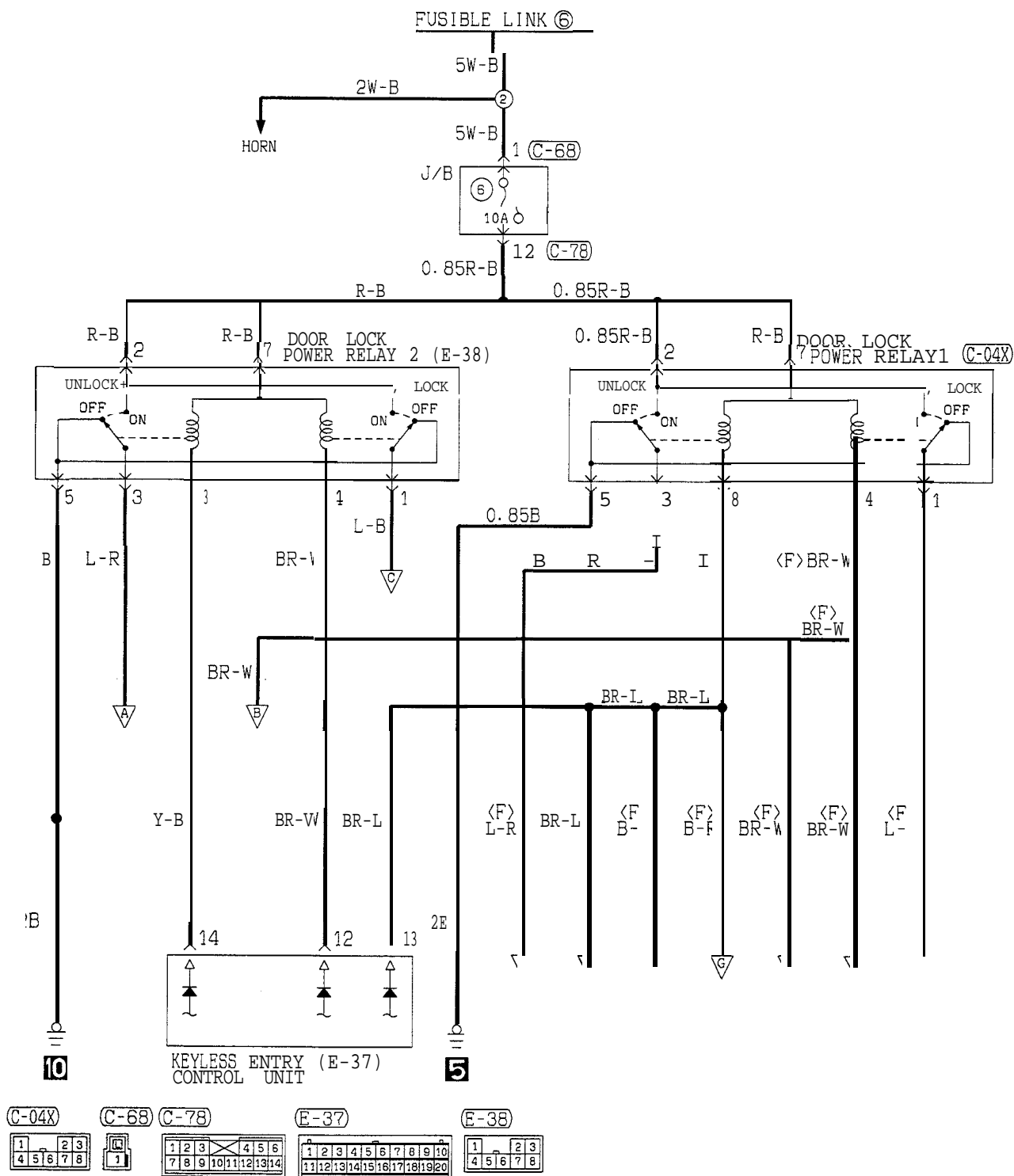


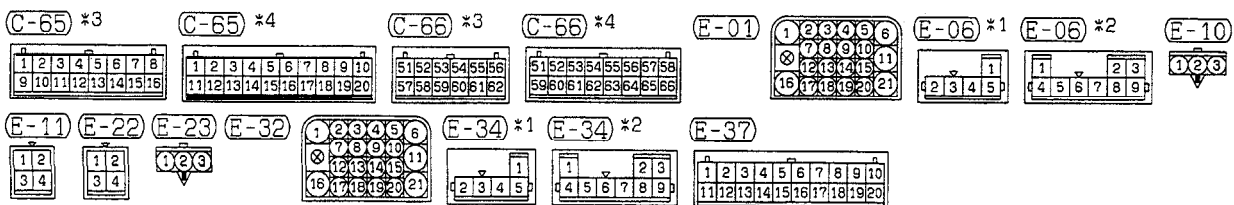
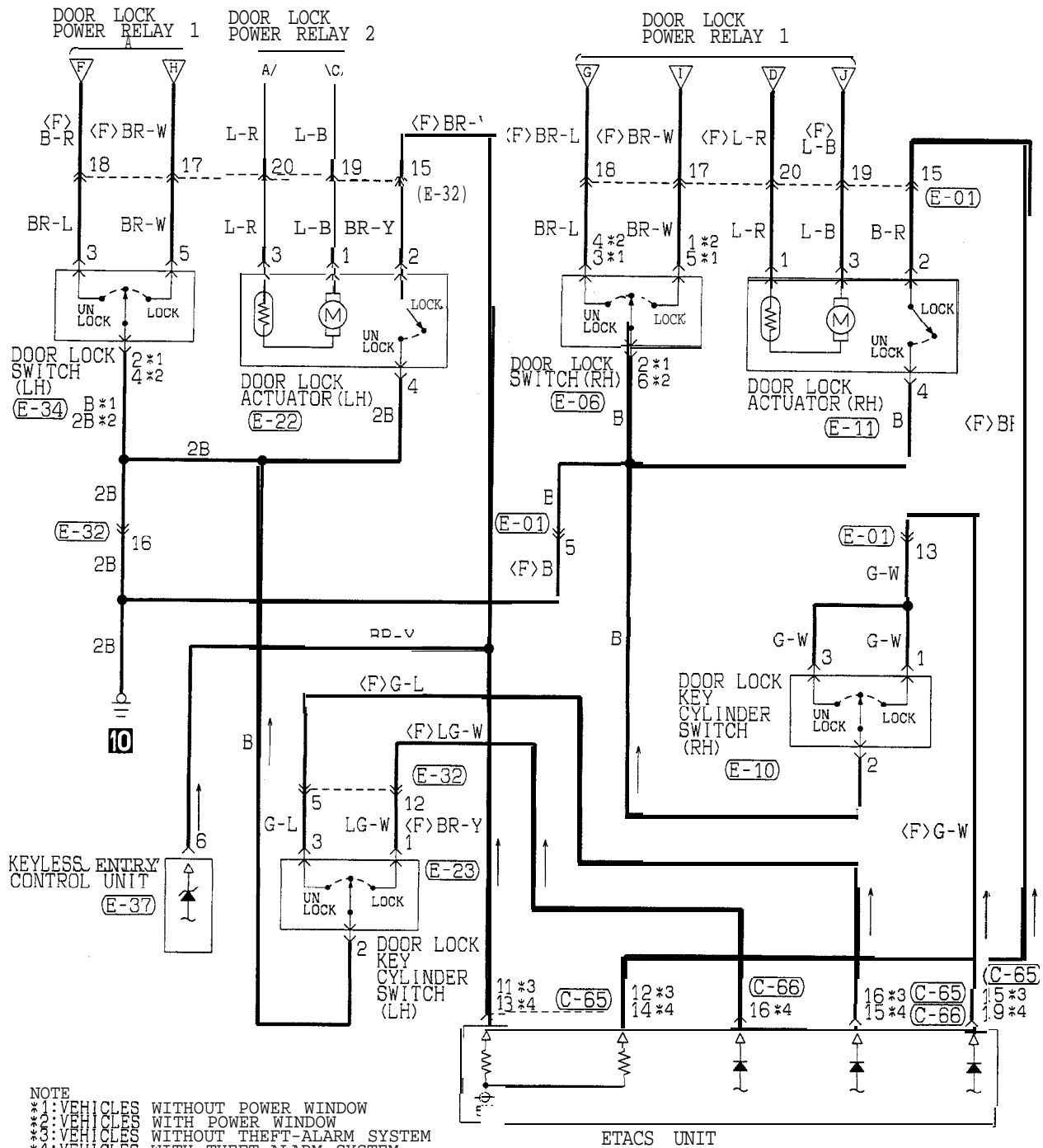
CENTRAL DOOR LOCKING CIRCUIT (UP TO 1993 models)
(Vehicles with keyless entry system) (CONTINUED)



NOTES

CENTRAL DOOR LOCKING CIRCUIT (1994, 1995 MODELS)

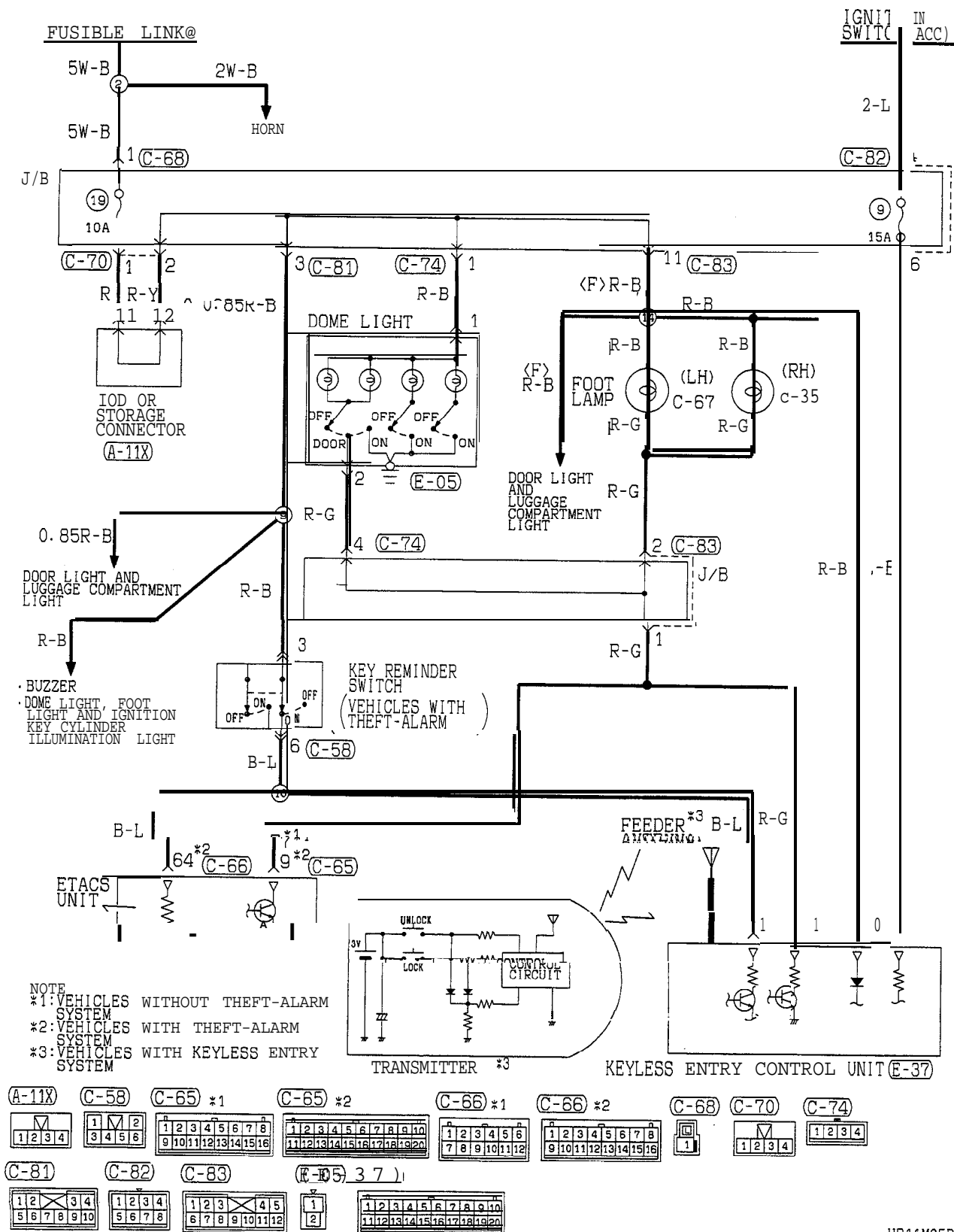




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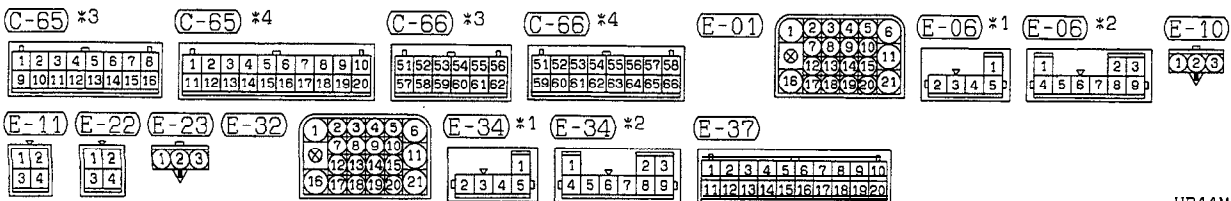
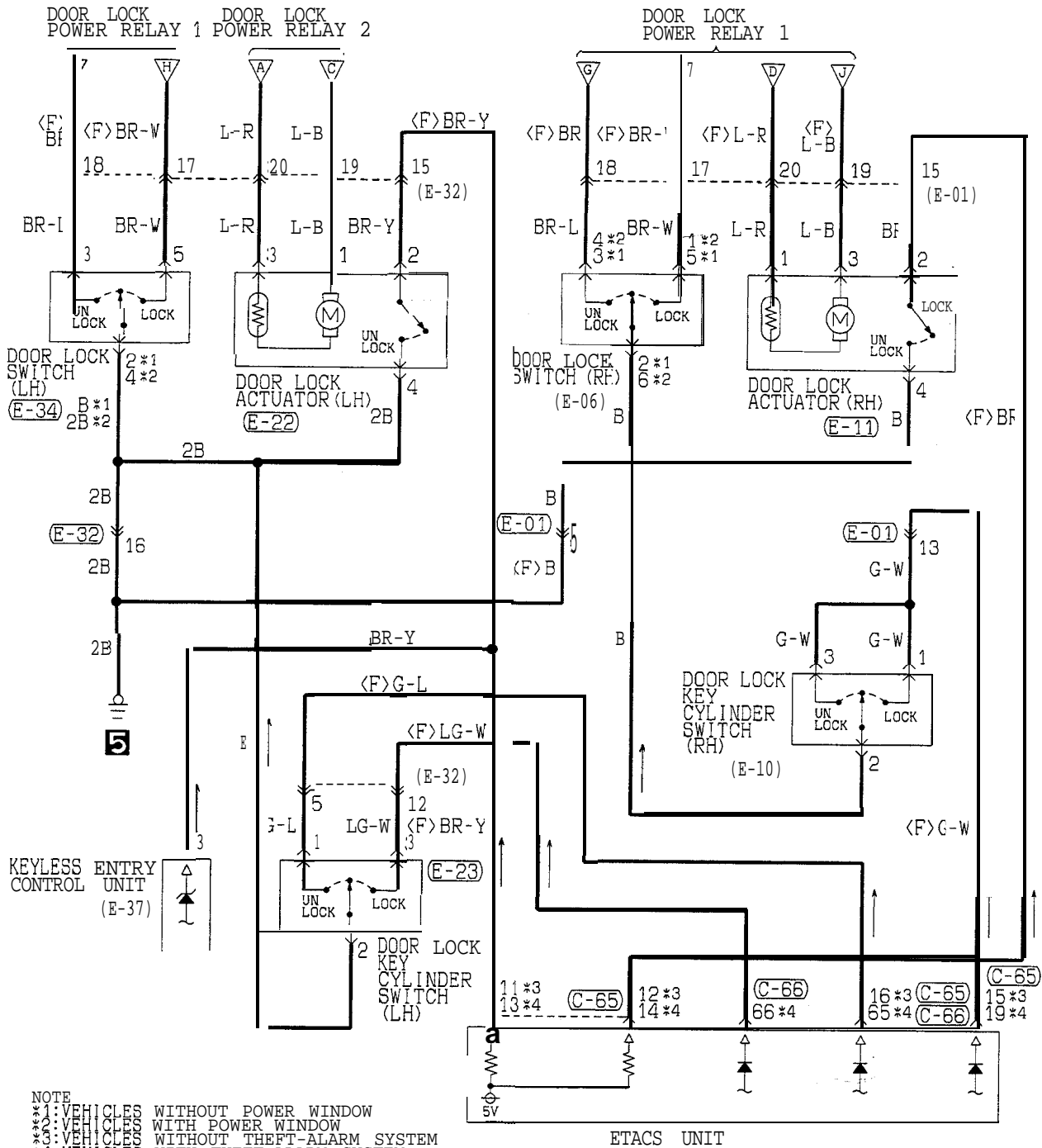
TSB Revision

CENTRAL DOOR LOCKING CIRCUIT (1994, 1995 MODELS) (CONTINUED)



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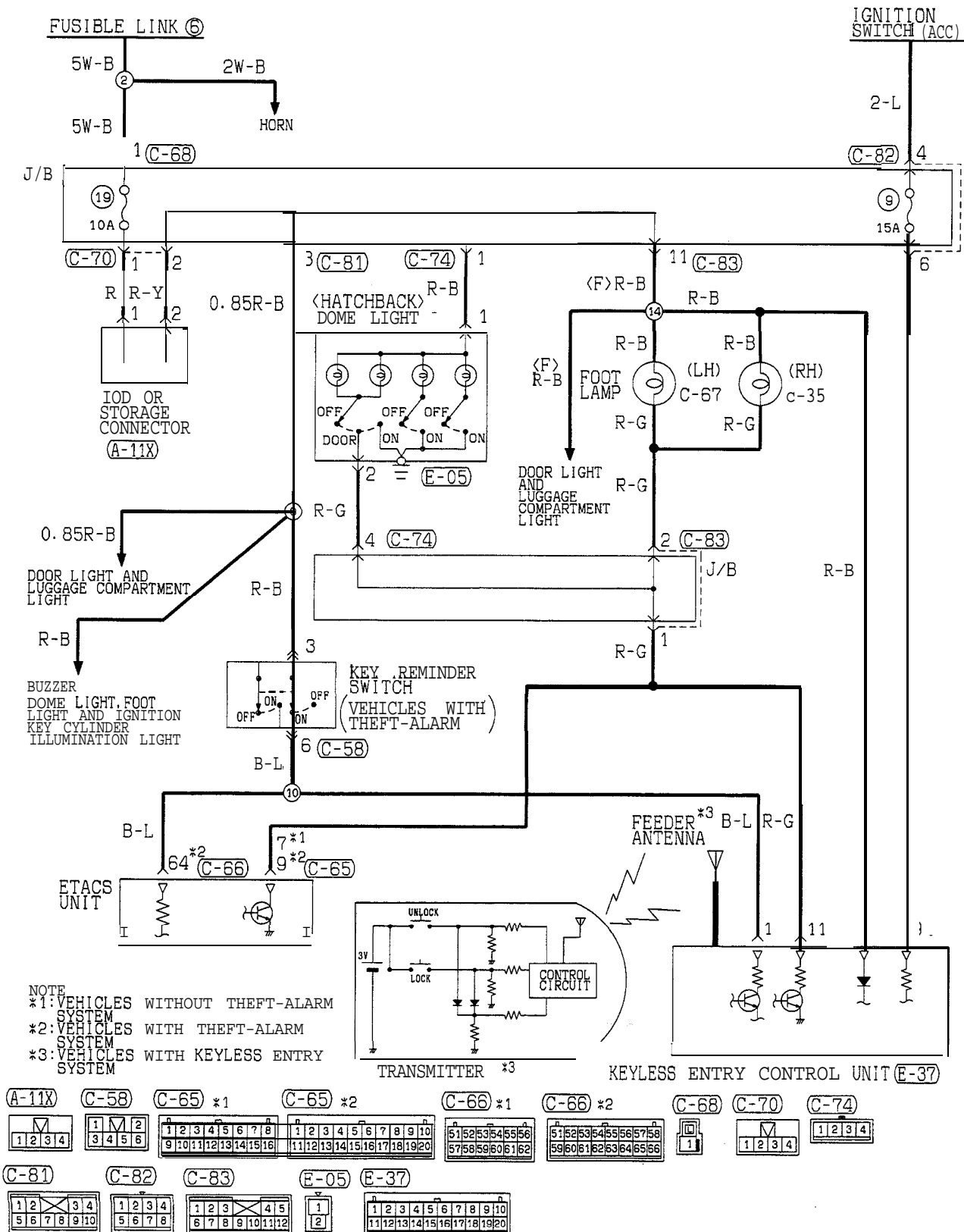
(C-04X) (C-68) (C-78) (E-37) (E-38)

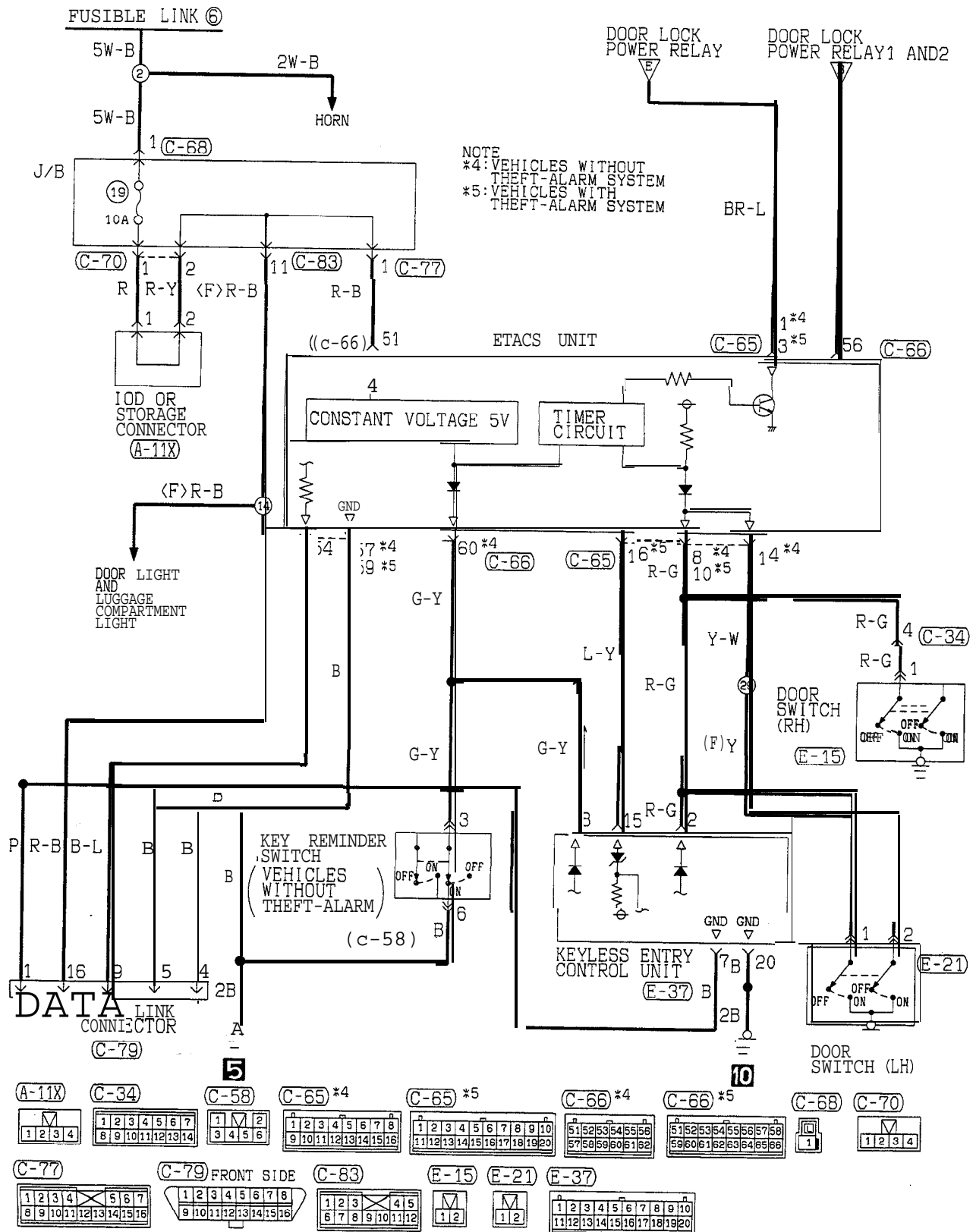


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TSB Revision

CENTRAL DOOR LOCKING CIRCUIT (FROM 1996 MODELS) (CONTINUED)



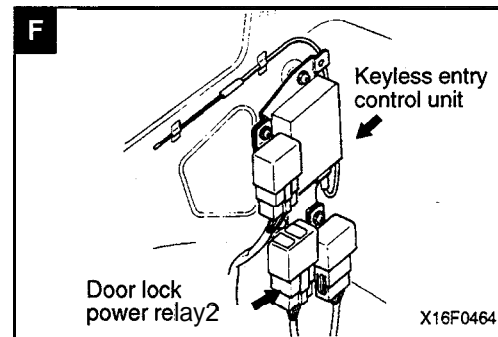
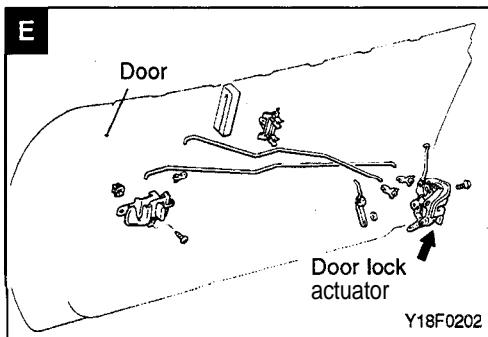
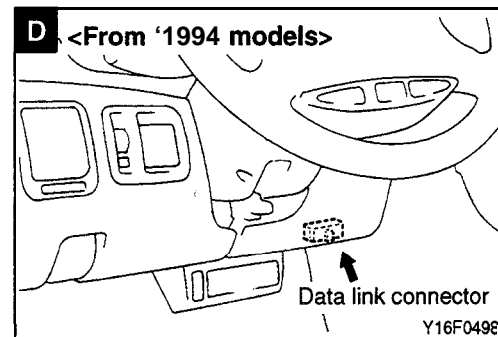
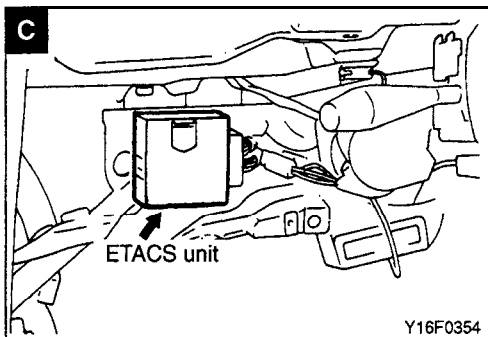
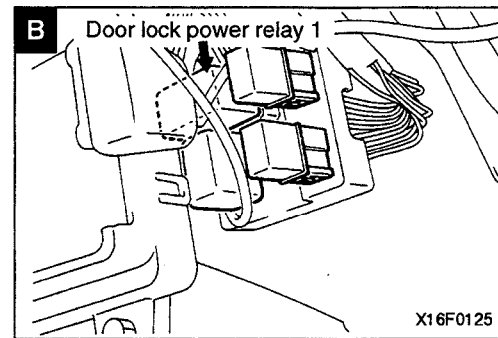
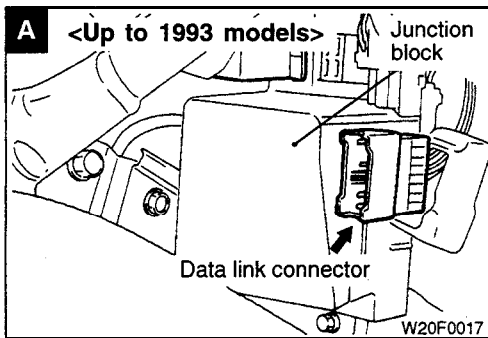
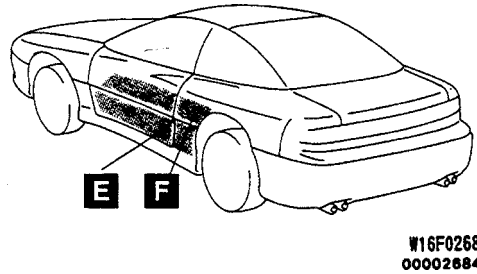
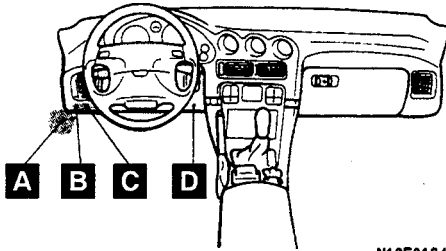


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TSB Revision

COMPONENT LOCATION

Name	Symbol	Name	Symbol
Data link connector (from 1994 models)	D	Door lock power relay 2 (Concerning the vehicles up to 1993 models, only for the vehicles equipped with keyless entry system.)	F
Data link connector (up to 1993 models)	A	ETACS unit	C
Door lock actuator	E	Keyless entry control unit	F
Door lock power relay 1	B		



OPERATION**<Vehicles without keyless entry system>**

- When the door lock switch is set to the LOCK side (or UNLOCK side), the LOCK side (or UNLOCK side) of the door lock relay is turned ON and the door actuators of all doors operate.
- If the driver seat side door (or assistant seat side door) is opened and the driver seat side inside lock knob (or assistant seat side inside

lock knob) is locked with the key inserted in the ignition switch, the ETACS unit grounds the unlock side circuit of the door lock relay to unlock all doors. This way, failure to remove the key is prevented.

<Vehicles with keyless entry system>

- With the driver's and front passenger's doors unlocked, press the LOCK switch of the transmitter, and the door lock signal output (0 V) will be sent from the keyless entry control unit terminal No. 12 closing the door lock power relays 1 and 2 to lock the driver's and front passenger's doors.
- While the R.H. and L.H. doors are in the locked state, press the UNLOCK switch of the transmitter once, and the DOOR UNLOCK switch signal (0 V) will be sent from the keyless entry control unit terminal No. 14 closing the door lock power relay 2 to unlock the driver's door.
- Under the above-mentioned conditions, further press the UNLOCK switch of the transmitter, and the DOOR UNLOCK signal output (0 V) will be sent from the keyless entry control unit terminal No. 13 closing the door lock power relay 1 to lock the front passenger's door.
- When the keyless entry system is operated to turn the driver's door lock switch from the UNLOCK position to the LOCK position, the

dome light/foot light blinking signal output (system voltage) will be sent twice from the keyless entry control unit terminal No. 11 when the door lock switch is turned from the LOCK position to the UNLOCK position, the lighting signal output (0 V) will be provided for approx. 3 seconds.

NOTE

The dome light winks or comes on when the dome light switch is in the DOOR interlock position. However, the dome light does not wink while it is ON for 6 seconds after closing the door by ETACS function.

Besides the above-mentioned operations, the keyless entry control unit has the following functions.

- If any door is not opened or closed within 30 seconds from unlocking the door by means of the keyless entry system, the door is automatically locked. In addition, if the cryptographic code other than the code stored in the receiver memory is received 30 times in one minute continuously, operation of the unit is suspended for 10 minutes.
- Operation is also suspended if the ignition key remains inserted (key reminder switch: OFF) and either door is left open (door switch: ON).

TROUBLESHOOTING HINTS**<Vehicles without keyless entry system>**

Phenomenon	Inspection method
One of the door lock actuators fails to operate.	<ul style="list-style-type: none"> • Check the door actuator which fails to operate.
No unlock operation can be made by pressing door lock knob after fulfilment of following conditions. <ul style="list-style-type: none"> • Insertion of key in ignition switch (key reminder switch OFF) • Opening of door (door switch ON) 	<ul style="list-style-type: none"> • Check the key reminder switch input signal. • Check the key reminder switch. (Refer to GROUP 54–Ignition Switch.) • Check the front door switch input signal. • Check the front door switch. (Refer to GROUP 42–Door Assembly)

<Vehicles with keyless entry system>

- The indicator does not blink after pressing the transmission switch of the transmitter.
 - 1) Check or replace the battery. (Refer to GROUP 42–Keyless Entry System.)
 - 2) Replace the transmitter.
- Transmitted wave is being sent from the transmitter (indicator is blinking), but the system does not operate.
 - 1) Check the cryptographic code registering method. (Refer to GROUP 42–Keyless Entry System.)
 - 2) Check the **keyless** entry control unit terminal voltage. (Refer to GROUP 42–Troubleshooting.)
 - 3) Check the coaxial cable of antenna and the ground wire for connection.
- Only R.H. or L.H. door can be locked or unlocked.
 - 1) Check the door lock power relay 1 (for front passenger's door) or door lock power relay 2 (for driver's door). (Refer to GROUP 42–Central Door Locking System.)
 - 2) Check the **keyless** entry control unit terminal voltage. (Refer to GROUP 42–Troubleshooting.)
- R.H. and L.H. doors can be locked and unlocked by the transmitter but the dome light and foot light do not blink or come on. (Interlocked lighting of the dome light and foot light by means of the dome light switch or door opening and closing is normal).
 - 1) Check the **keyless** entry control unit terminal voltage (Refer to GROUP 42–Troubleshooting.)
 - 2) Check the harness.

NOTE

- Perform this check when replacement of the transmitter and/or **keyless** entry control unit or faulty storage of cryptographic code has been made.