



GROUP 43

ON BOARD INSTRUMENTS & ELECTRONIC DEVICES

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ELECTRONIC INSTRUMENT PANEL AND CONTROL UNITS

GENERAL INFORMATION AND PRE-CAUTIONS

**WARNING:**

Before proceeding to removal and installation of electrical system components, read carefully the general information and precautions stated at beginning of paragraphs.

Before starting operations on vehicle, make sure the ignition key is set to "GARAGE" position, and battery ground cable has been disconnected. In addition:

- Do not connect control units output directly to the load.
- Under no circumstances operate directly on devices whose wires are connected to "positive" or "ground" unless the control unit has been previously disconnected.
- Do not short-circuit system sensors unless otherwise stated.
- Before arc welding on vehicle's frame, disconnect control units to prevent possible damage of electronic components by induced currents.

NOTE: When working on the systems, bear in mind the possible consequences, and do not carry-out any operation if not familiar with characteristics of components concerned.

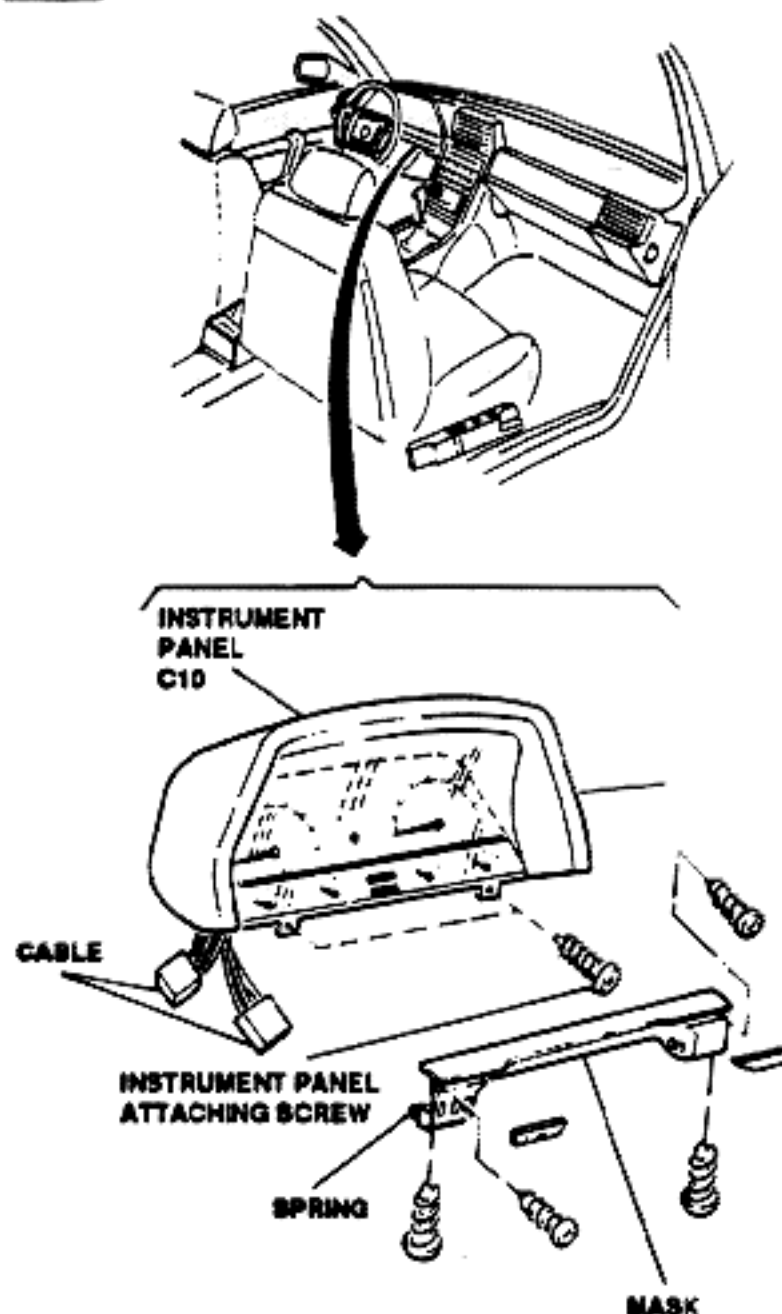
- Perform reassembly and/or installation by reversing the order of disassembly and/or removal procedures, unless specific instructions are supplied, and restore connection of battery.
- Following replacement of a component of the electrical system, it is recommended to replenish the stock with original ALFA ROMEO spares. Use of non original ALFA ROMEO spares, even with slightly different characteristics, could affect proper, reliable and safe operation of the vehicle.

ELECTRONIC INSTRUMENT PANEL REMOVAL/ INSTALLATION

1. Carefully remove mask finishers using a small screw driver.
2. Remove four screws securing mask.
3. Press onto mark springs, and remove mask.
4. Remove two screws securing instrument panel to dashboard.
5. Carefully remove by hand the instrument panel from dashboard, preventing it from dropping, or other damaging.
6. Disconnect instrument panel cable.



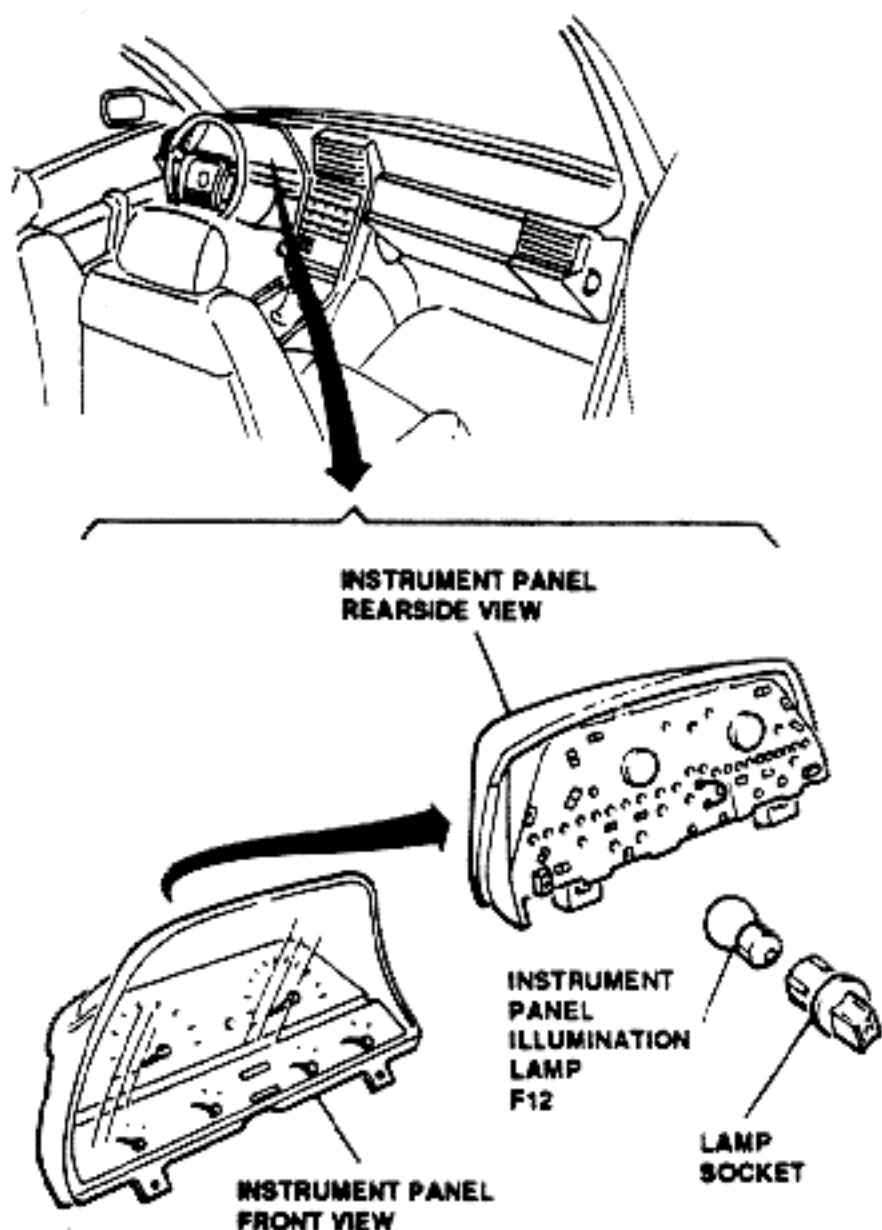
Repeat procedure in reverse order for installation.





BULBS REPLACEMENT

1. Remove instrument panel from dashboard as described.
2. Manually turn the instrument panel with precaution to prevent it from dropping or damaging, in order to gain access to rear side.
3. Manually extract lamp socket and lamp.
4. Replace affected lamp.



COMPONENTS REPLACEMENT

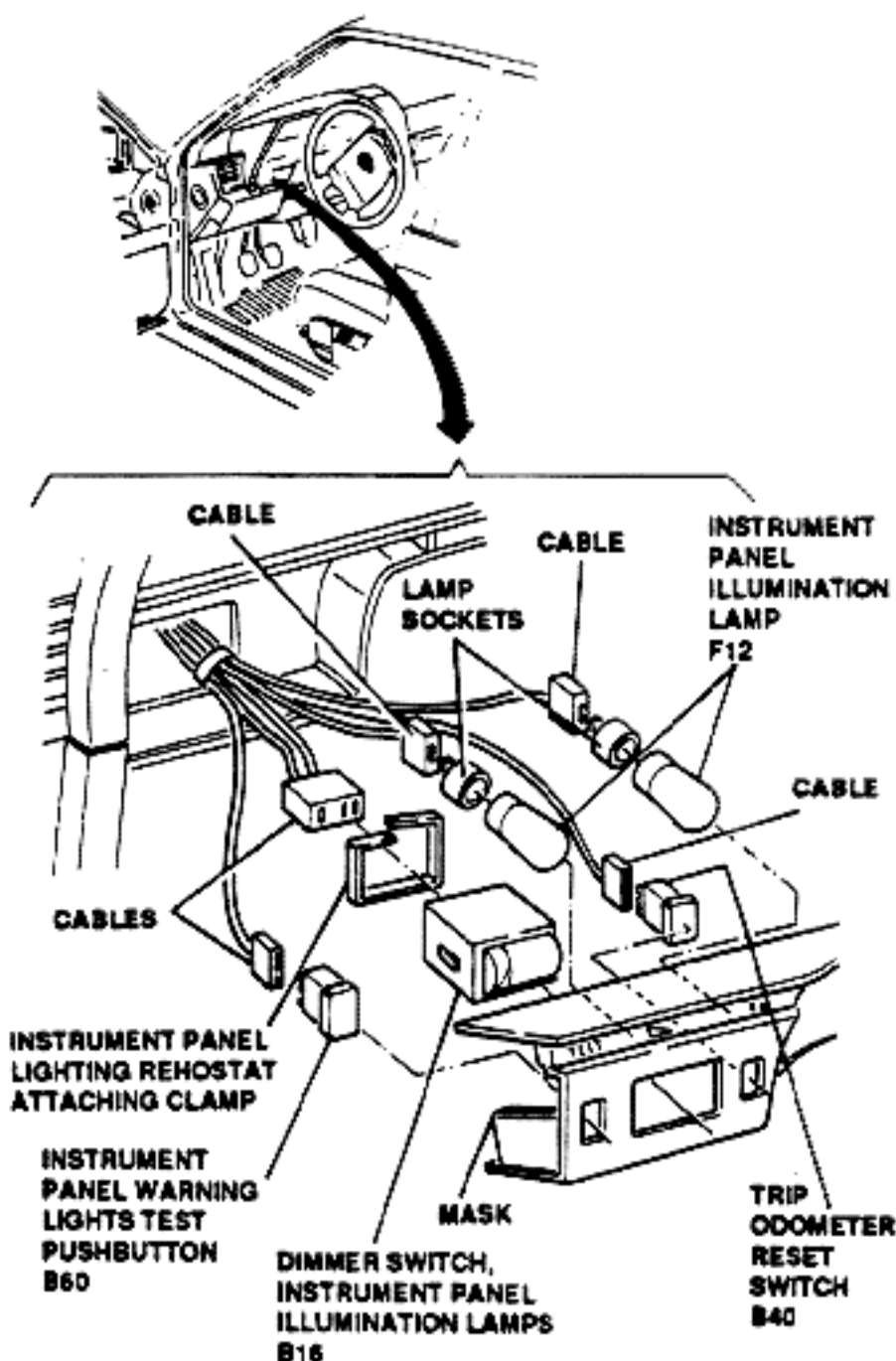
NOTE: Components that can be replaced are as follows:

- Dimmer switch, instrument panel illumination lamps.

- Trip odometer reset switch.
- Instrument panel warning lights test pushbutton.
- Instrument panel illumination lamps.

1. Remove mask.
2. Disconnect cable from component being replaced.
3. Extract pressure mounted affected component.

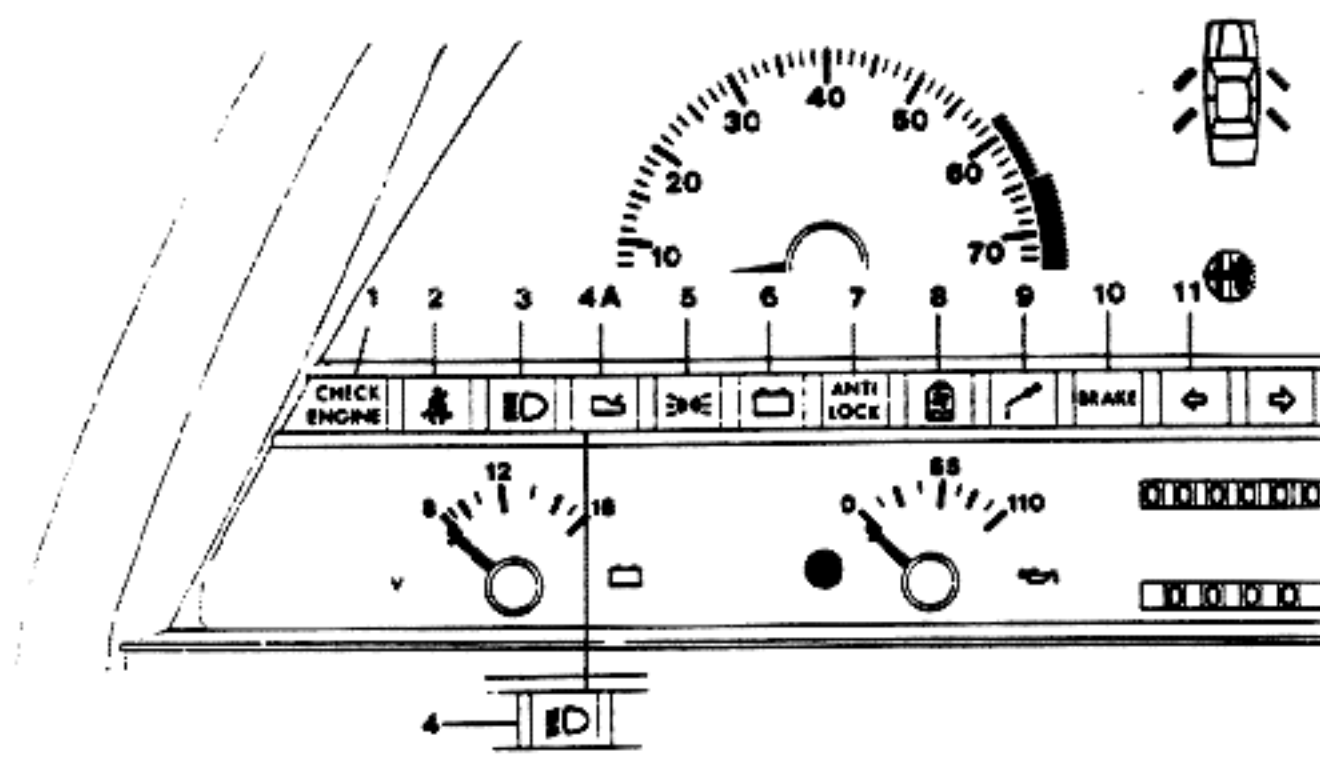
NOTE: In case of replacement of instrument panel lighting reostat, it is necessary to remove first the relevant clamp.



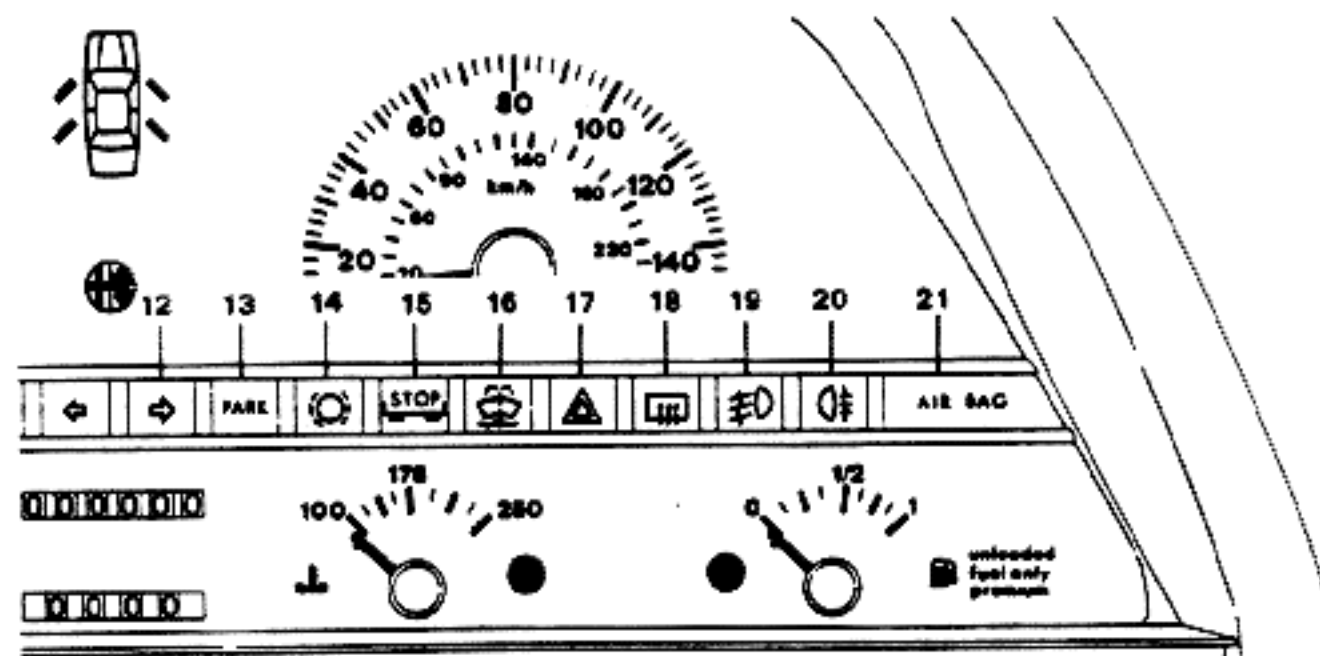


ALFA ROMEO CONTROL - WARNING LAMPS LOCATION

Remove instrument panel from dashboard to gain access to affected warning lamp.



- | | |
|--|----------------------------|
| 1. Check engine. | 6. Generator. |
| 2. Seat belts. | 7. ABS failure. |
| 3. High beam lamps. | 8. Engine coolant level. |
| 4. Low beam lamps. | 9. Engine oil level. |
| 4A. Automatic transmission oil max. temperature. | 10. Brake fluid level. |
| 5. Position lamps. | 11. Left turn signal lamp. |



- | | |
|-----------------------------|-------------------------|
| 12. Right turn signal lamp. | 17. Hazard lamps. |
| 13. Parking brake. | 18. Heated rear window. |
| 14. Brake pads wear. | 19. Fog lamps. |
| 15. Stop lamps. | 20. Rear fog lamps. |
| 16. Utilities water level. | 21. Air bag failure. |



CONTROL UNITS

CONTROL UNITS AND BUZZER LOCATED BEHIND GLOVEBOX

NOTE: Affected control units are as follows:

- Alfa Romeo control unit.
- Power window lift control unit.
- Door lock/unlock control unit.
- Tail lamps control unit.

Alfa Romeo control, door lock/unlock, tail lamps control units

1. Disconnect cable from affected control unit.
2. Remove screws securing control unit to its support bracket.

Seat belt unfastened and ignition key buzzer

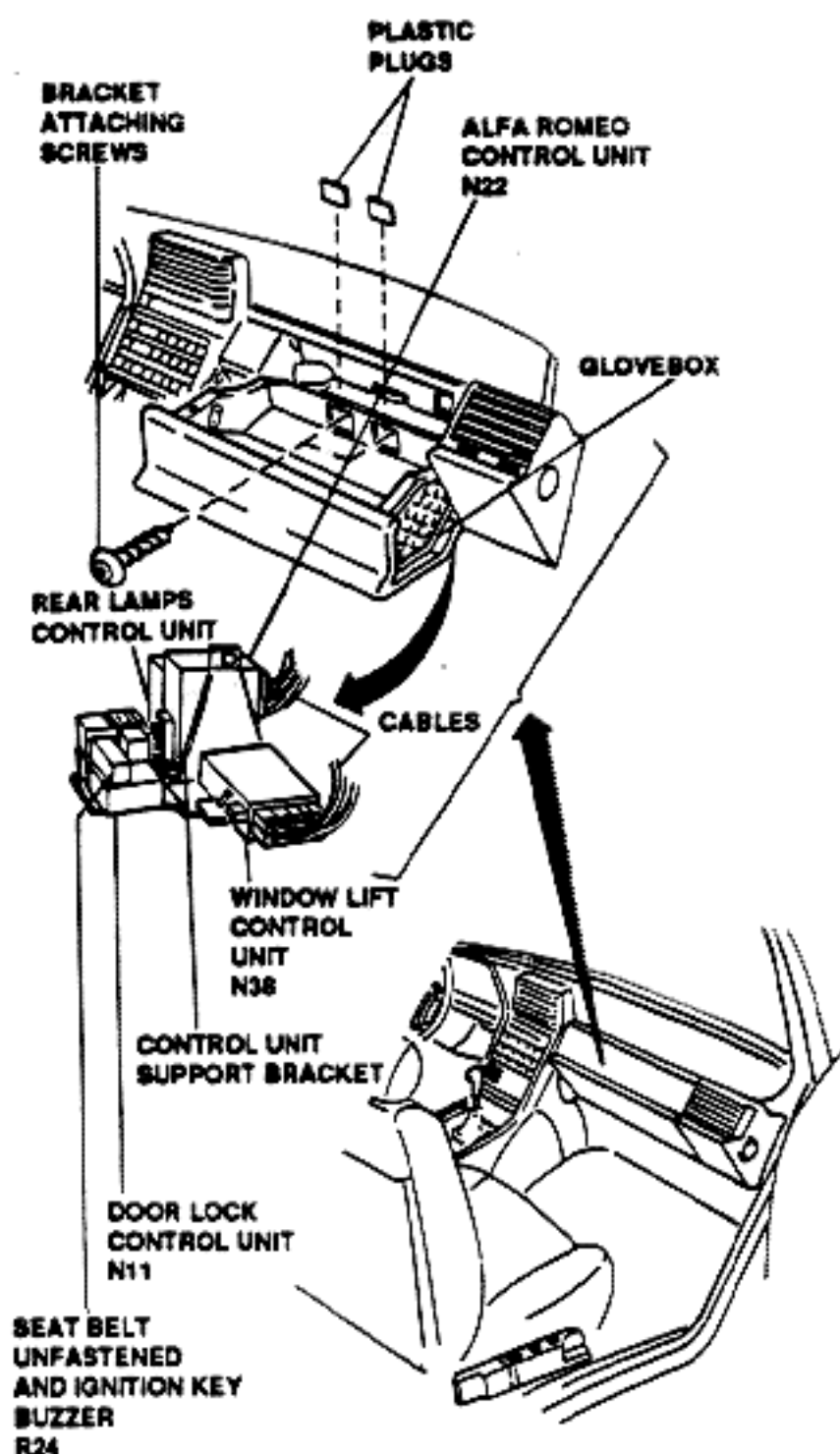
3. Remove by hand the pressure mounted buzzer.

Window lifts control unit

4. Open glovebox.
5. Manually remove two plastic plugs pressure inserted on glovebox bottom panel to gain access to screws securing control unit support bracket.
6. Remove two screws securing control unit support bracket.
7. Manually lower control unit and seat belt buzzer support bracket.



Repeat procedure in reverse order for installation.

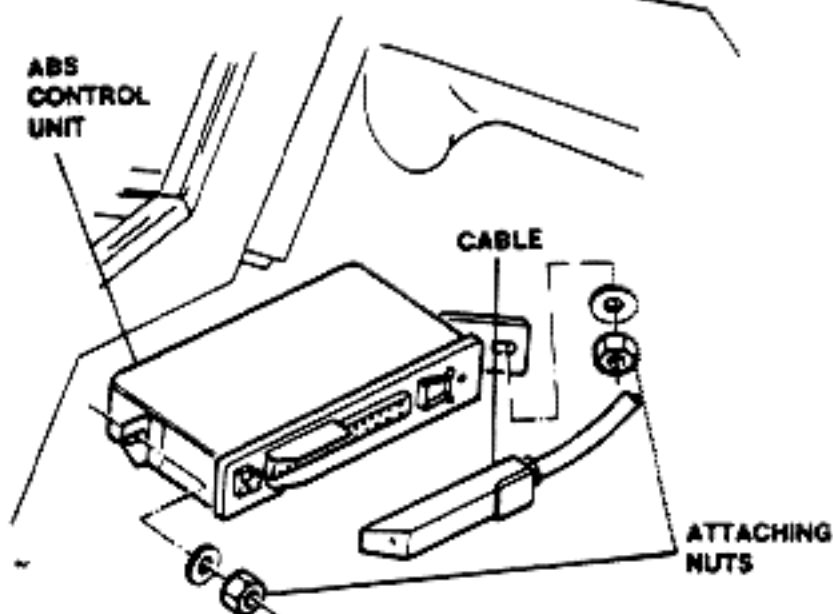
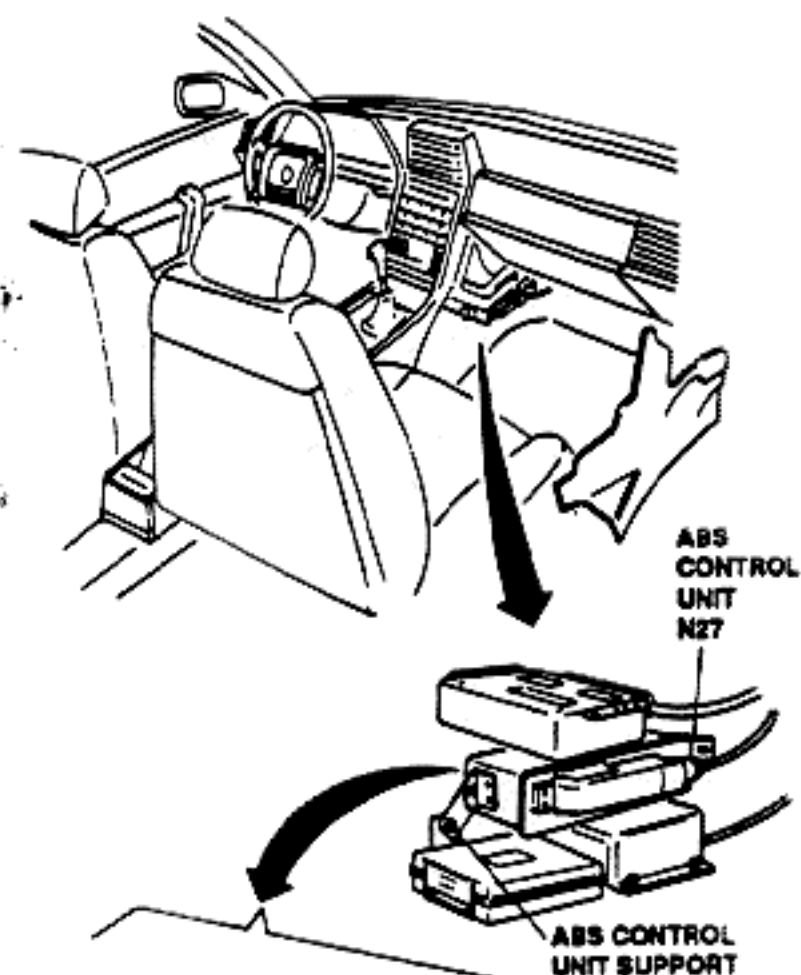
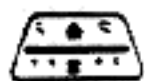


ABS CONTROL UNIT

1. Remove trim from right side of tunnel (refer to Group 66).
2. Disconnect cable from control unit.
3. Remove two nuts securing control unit to support.
4. Remove control unit.



Repeat procedure in reverse order for installation.



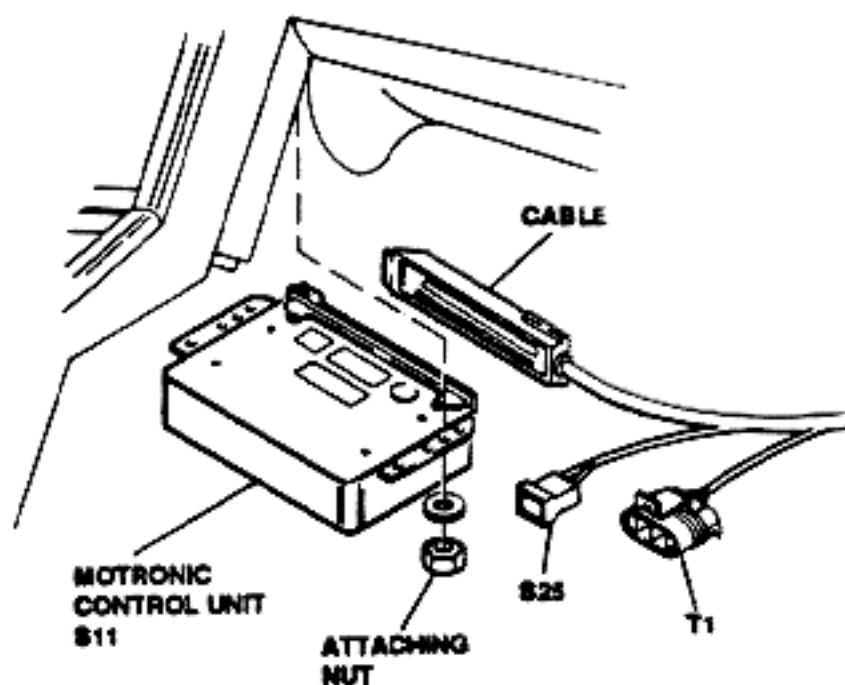
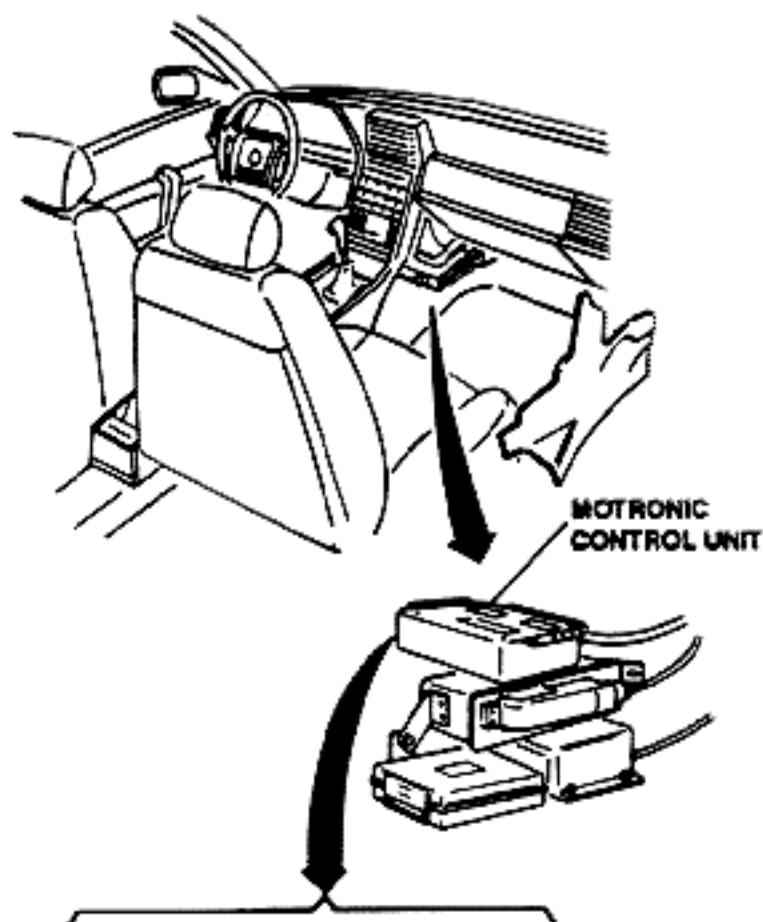
MOTRONIC CONTROL UNIT

1. Remove trim from right side of tunnel (refer to Group 66).

NOTE: For removal of the motronic control unit, it is necessary to remove first the ABS control unit.

2. Disconnect control unit cable.

3. Remove nut securing control unit to support.
4. Lower control unit and withdraw it from support.
5. Disconnect cable from control unit.



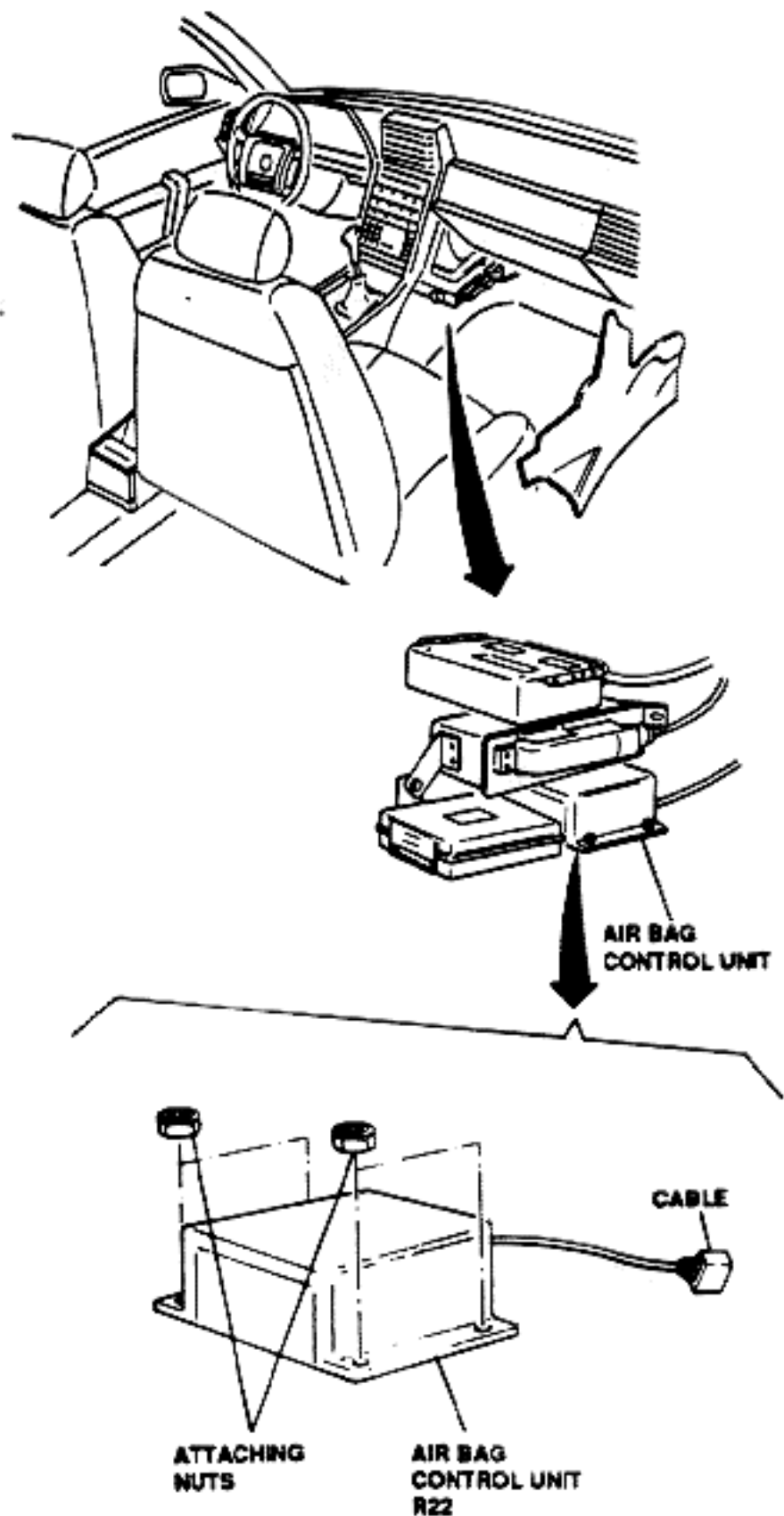


AIR BAG CONTROL UNIT

1. Remove trim from right side of tunnel (refer to Group 66).

NOTE: For removal of the Air Bag control unit, it is necessary to remove first the ABS control unit.

2. Disconnect cable from control unit.
3. Remove nuts securing control unit to support.
4. Remove control unit.

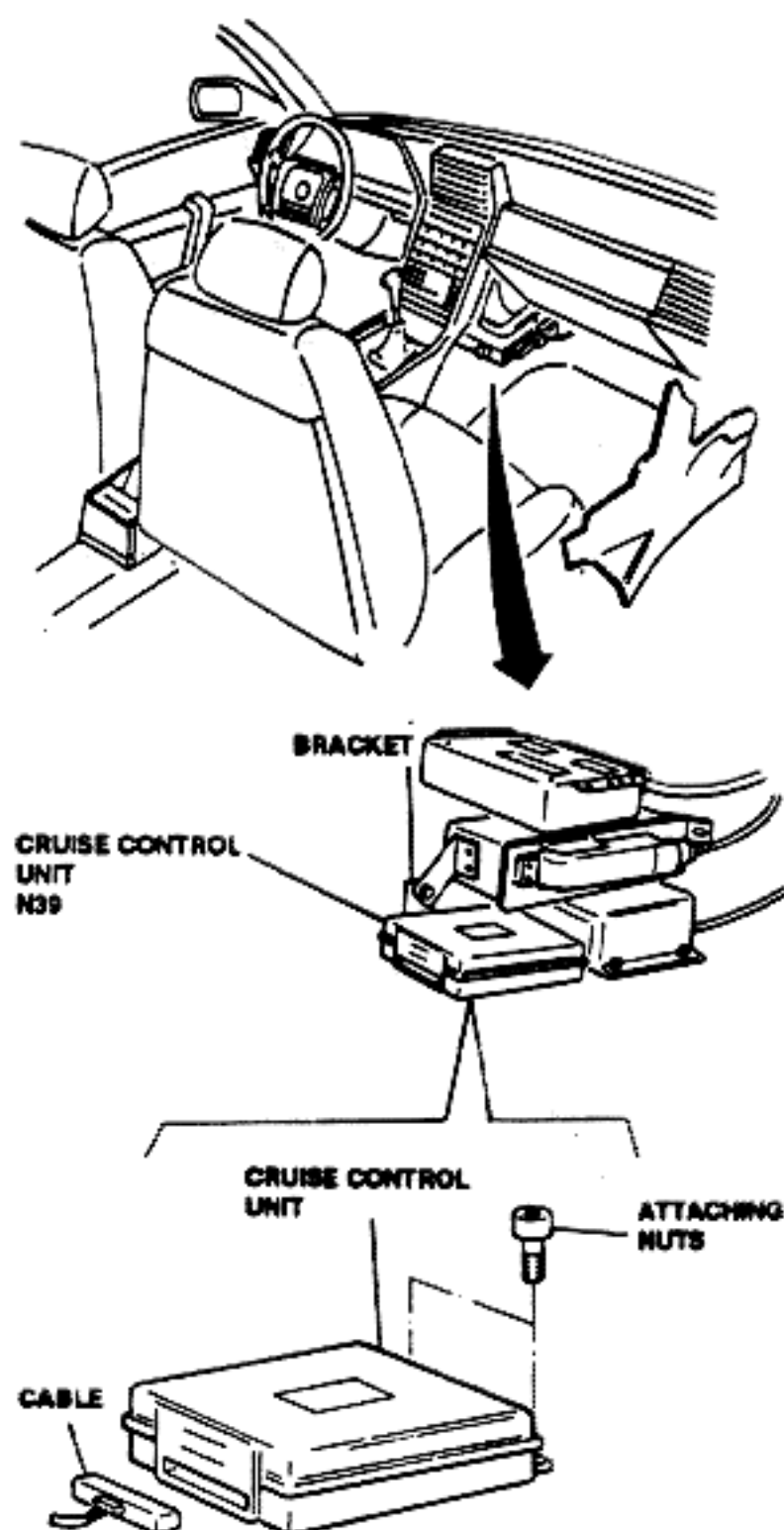


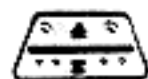
CRUISE CONTROL UNIT

1. Remove trim from right side of tunnel (refer to Group 66).

NOTE: For removal of the Cruise Control unit, it is necessary to remove first the ABS control unit.

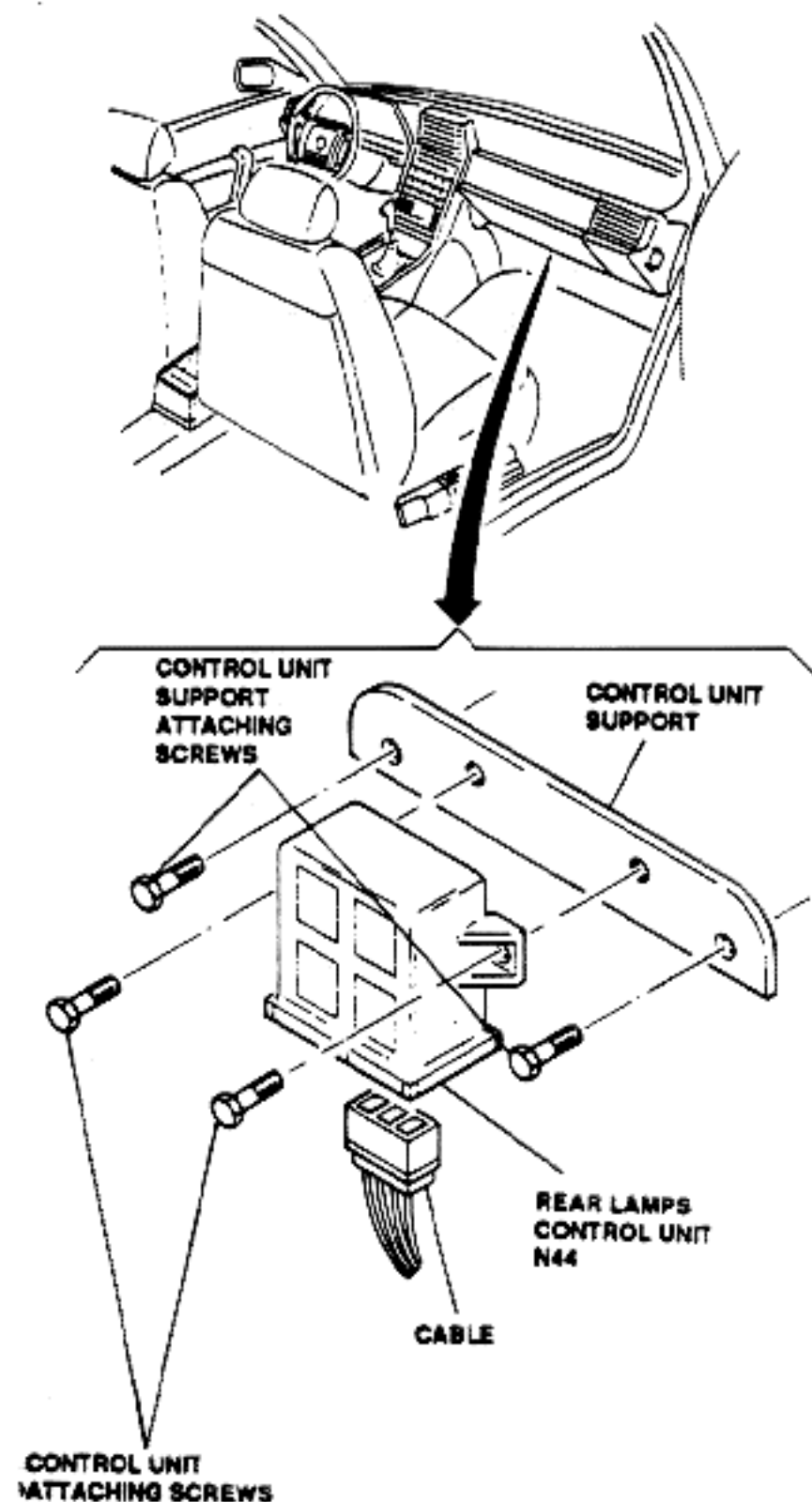
2. Disconnect cable from control unit.
3. Remove two screws securing control unit to bracket.
4. Remove control unit.





REAR LAMPS CONTROL UNIT

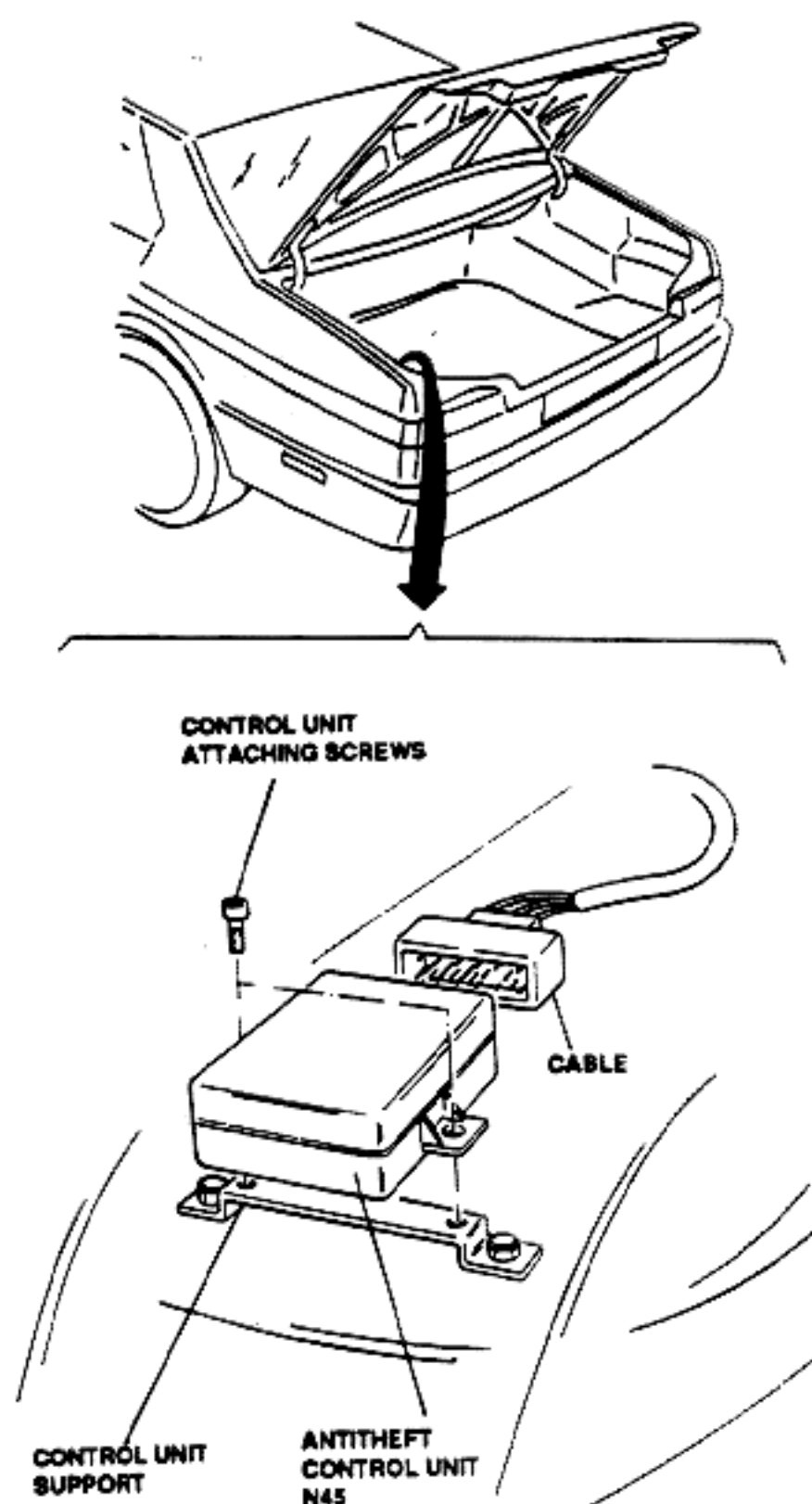
1. Acting from lower side of dashboard, front passenger side, remove two screws securing control unit support, then withdraw support.
2. Disconnect cable from control unit.
3. Remove two screws securing control unit to support.
4. Remove control unit from support.



ANTITHEFT CONTROL UNIT

NOTE: To gain access to the control unit, it is necessary to remove first the inner trim from left side of trunk (refer to Group 66).

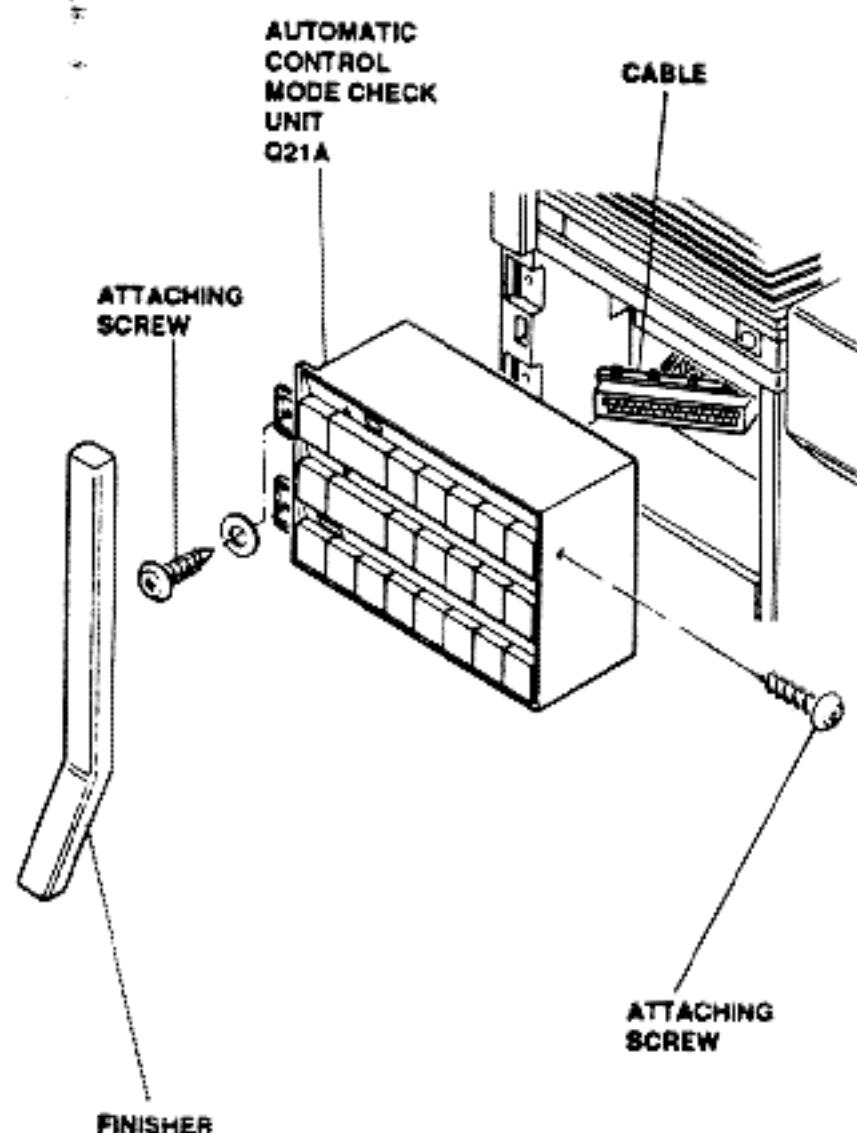
1. Remove two screws securing control unit to support.
2. Disconnect cable from control unit.
3. Remove control unit.





AUTOMATIC CONTROL MODE CHECK UNIT

1. Remove control unit finisher.
2. Remove two screws securing control unit.
3. Withdraw control unit manually, taking care to prevent unit from dropping or damaging, and gain access to control unit cable.
4. Disconnect cable and remove control unit.



SUSPENSION SYSTEM ELECTRONIC CONTROL UNIT ("S" version only)

NOTE: To gain access to the control unit, it is necessary to remove first the inner trim from right side of trunk (refer to Group 66).

1. Remove two nuts securing control unit to support.
2. Disconnect cable from control unit.
3. Remove control unit.



Repeat procedure in reverse order for installation.

