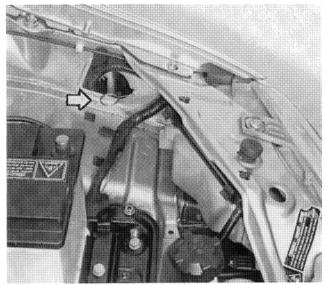
PUNTO eMANUAL

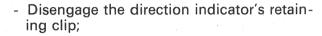
Electrical Equipment

Title	Page	
Removing/refitting front direction indicators	1 🌓	
Removing/refitting side repeaters & front light cluster	2 🕽	
Headlight alignment & operation	4 🗬	
Removing/refitting front fog lamps	7 🔾	\circ
Removing/refitting rear light cluster	8 🗨	
Removing/refitting number plate light	10 🕽	
Courtesy light	11 🕽	





REMOVING-REFITTING FRONT DIRECTION INDICATOR



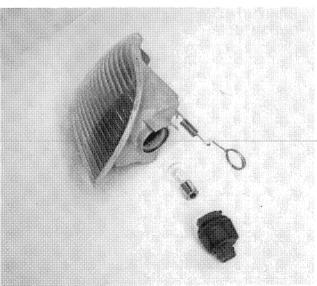








- withdraw the direction indicator from its seating;
- disconnect the connector then remove the direction indicator;

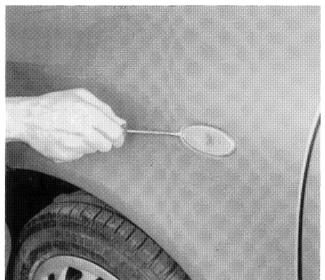


P3M071L03



to refit, simply reverse the procedure for removal.

<u>55.</u>

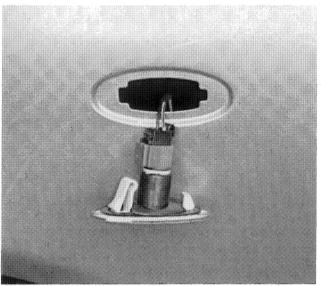




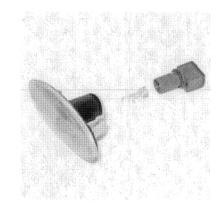


REMOVING-REFITTING SIDE REPEATER

- Withdraw the indicator as shown in the figure;

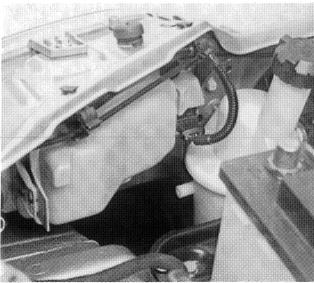


P3M072L02



P3M072L03

- disconnect the connector and remove the side repeater;
- to refit, reverse the procedure for removal.



P3M072L04





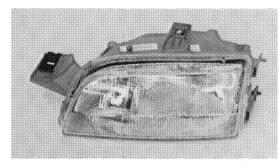
REMOVING-REFITTING FRONT LIGHTS CLUSTER

- Separate the front direction indicator from the body shell (see procedure on preceding page);
- disconnect the connector from inside the engine compartment;



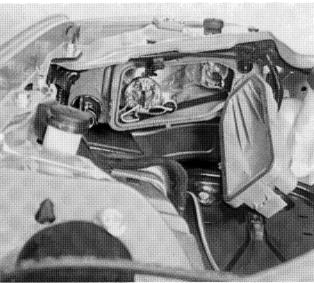






P3M073L02

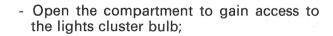
- undo the screws securing the lights cluster to the body shell, then remove it;
 - to refit, reverse the procedure for removal.

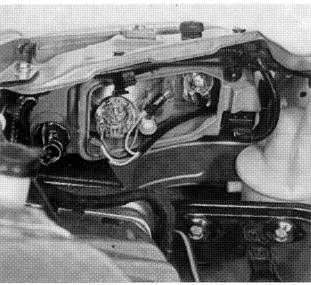




REPLACING FRONT LIGHTS CLUSTER BULB





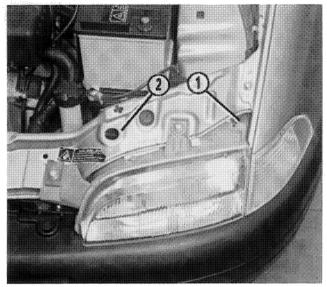


P3M073L04

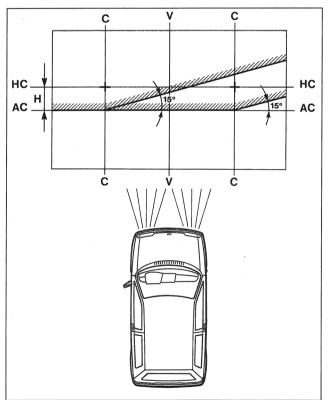
- disconnect the connectors and withdraw the side light bulb, and then replace it.

Lighting

55.



P3M074L01



P3M074L02

84

HEADLAMP ALIGNMENT

- Screw for horizontal headlamp beam adjustment
- 2. Screw for vertical headlamp beam adjustment

The car must be complete with spare wheel, tools, fluids and fuel reserve, the tyres must be at normal operating pressure and the driver must be on board.

Place the car on flat ground with the lights cluster lenses 10 m away from a screen or opaque surface on which the following lines have been drawn:

V - V: vertical line corresponding to the plane of symmetry of the car.

C - **C**: corresponding to the vertical planes passing through the reference centres of the lights clusters.

HC-HC: horizontal line corresponding to the height from the ground of the reference centres of the lights clusters.

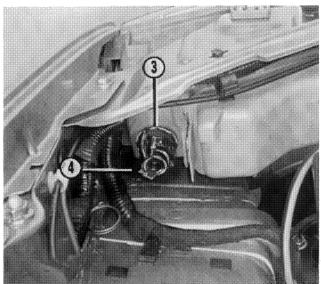
AC-AC: horizontal line 10 cm below the line Hc-Hc (value for cars which are new, but settled down, corresponding to a 1% drop). Align the lights clusters on the dipped beam. Using the headlamp alignment device, proceed as follows:

Vertical alignment

Line up the horizontal section of the demarcating line between the dark area and the area illuminated by the light beam, with the line **AC-AC** drawn on the screen.

Horizontal alignment

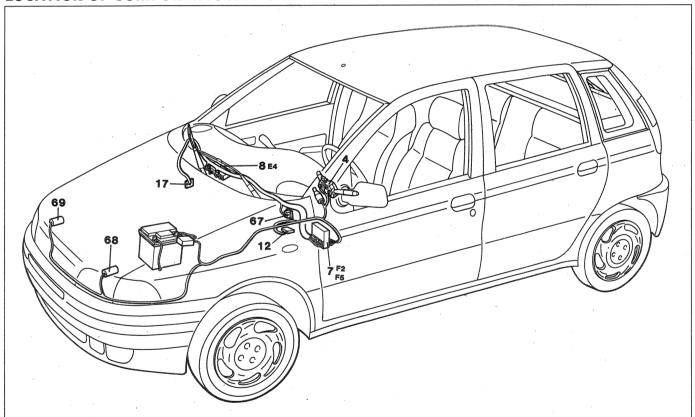
Line up the intersecting point of the two demarcating lines, the horizontal line and the angled line, with the respective intersections of the lines **C-C and AC-AC** on the screen. If the screen has to be placed at a shorter distance, this value must be reduced proportionally.





- D3840751 C
- 3. Position of dipped beam headlamp corrector with medium load
- 4. Position of dipped beam headlamp corrector fully laden

LOCATION OF COMPONENTS AND CABLE HARNESS FOR HEADLAMP ALIGNMENT



- 4 Stalk unit with:
 - Side lights/dipped beam headlamps switch
 - Dipped beam/main beam headlamps switch
 - Main beam headlamps button
- 7 Junction unit
 - F2-F5 circuit protection fuses
- 8 Optional devices control unit E4 dipped beam headlamps relay

- 12 Connection
- 17 Right dashboard earth
- 67 Headlamp alignment control device
- 68 Left headlamp adjustment motor
- 69 Right headlamp adjustment motor

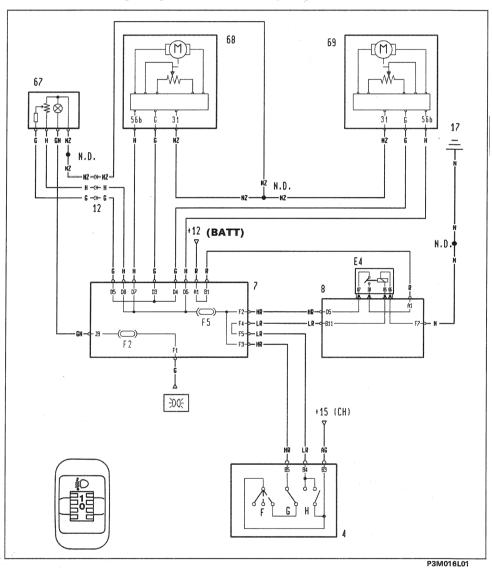
P3M015L01

Operation

The headlamps are adjusted electrically, when the main beam lamps are on. The movement is generated by two motor actuators (68-69) mounted directly on the lights clusters. The control (67) is a potentiometer operated via a knob located on the dashboard, which may be set to four different positions, corresponding to four positions that may be assumed by the lights clusters. The wiring diagram shows the connections of the various devices constituting the system.

The system is supplied by a 12 V positive voltage coming from the ignition switch and is protected by the fuse (F5) located on the junction unit (7). The actuator consists of a motor, on which a potentiometric position transducer is mounted, and an electronic control unit.

Wiring diagram of headlamp adjuster connection



- 4 Stalk unit
 - F Side lights/dipped beam headlamps switch
 - G Dipped beam/main beam headlamps switch
 - H Main beam headlamps button
- 7 Junction unit
 - F2 F5 Circuit protection fuses
- 8 Optional devices control unit E4 Dipped beam headlamps relay

- 12 Connection between dashboard cables and front cables
- 17 Right dashboard earth
- 67 Headlamp alignment control
- 68 Left headlamp adjustment motor
- 69 Right headlamp adjustment motor
- N.D. Connector blocks





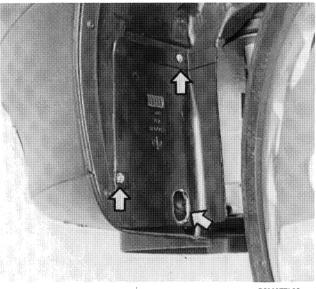
REMOVING-REFITTING FRONT FOG LAMPS



lamps to the bumper;

- Undo the screws securing the front fog



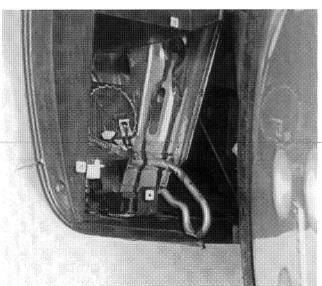




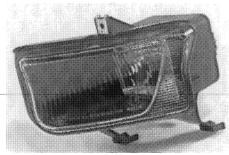


 undo the screws indicated in the figure and withdraw the wheelarch trim;





P3M077L03

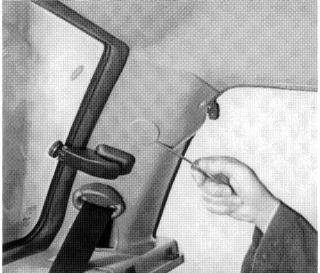


P3M077L04

- disconnect the connector and withdraw the front fog lamp from its seating.

Lighting

55.

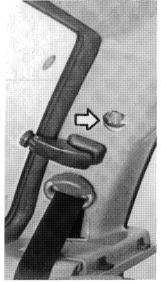


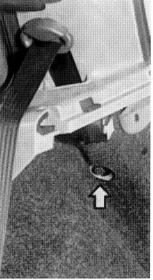


REMOVING-REFITTING REAR LIGHTS CLUSTER

P3M078L01

- Lift and remove the attachment cover shown in the figure;





P3M078L03

- undo the top screw attaching the lights cluster to the pillar (left picture);undo the bottom screw attaching the lights
- cluster to the pillar (right picture);

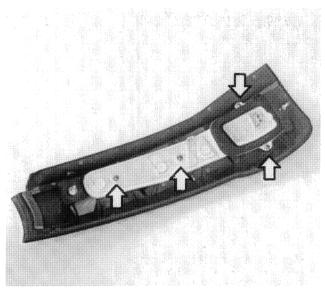


P3M078L04





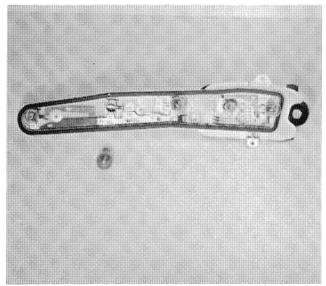
- gently withdraw the lights cluster from its seating and disconnect the connector;





P3M079L01

- remove the lights cluster, then undo the screws indicated in the figure;



P3M079L02

lift the cover, then unscrew and replace the faulty bulb;

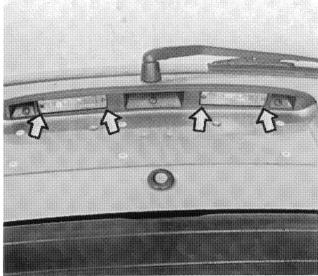


P3M079L03

- to refit, reverse the procedure for removal.

Lighting

55.





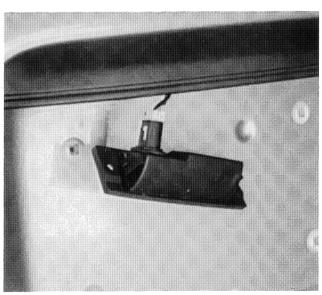
NUMBER PLATE LIGHT



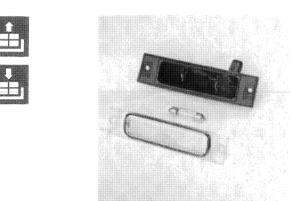
P3M080L01

Removing-refitting light

- Undo the screws shown in the figure;

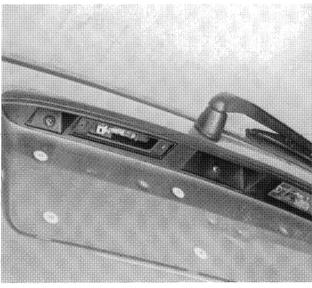


P3M080L02



P3M080L03

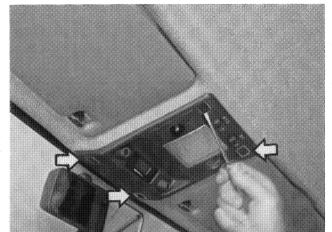
- disconnect the connector by disengaging the lug shown in the figure, then remove the light;
- to refit, reverse the procedure for removal.



P3M080L04

Replacing bulb

Prise off the lens and replace the faulty bulb.



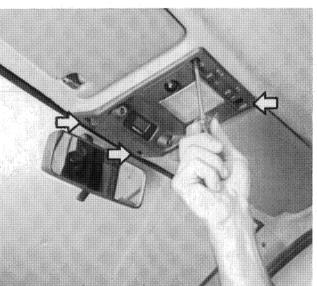




CAR INTERIOR COURTESY LIGHT

Removing-refitting courtesy light

- Lift off the attachment covers using a screwdriver as a lever;

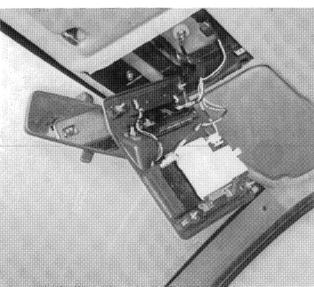




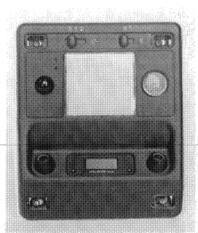
P3M081L01



- undo the screws located underneath;



P3M081L03

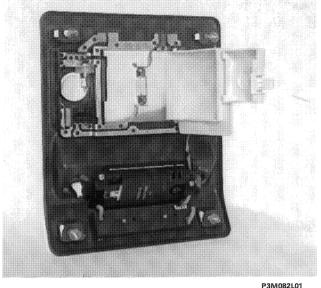


P3M081L0

 disconnect the connectors and withdraw the courtesy light;

Lighting

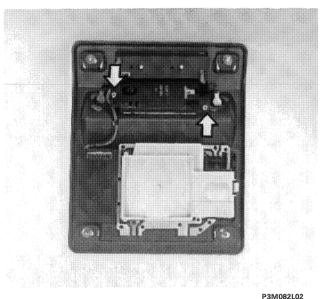
<u>55.</u>





Replacing courtesy light bulb

- Remove the courtesy light (see preceding page);
- using a screwdriver, prise off the bulb access door and replace the faulty bulb.











P3M082L03

Replacing clock

- Remove the courtesy light (see preceding page):
- page);undo the screws securing the clock to the courtesy light;
- withdraw and replace the clock;



P3M082L04

- to refit, reverse the procedure for removal.

60 Publication no. 506.003/01