

# Bumpers

Job No.

88 — 5

## A. Removal and Installation of Front or Rear Bumpers

### Removal:

1. Unscrew the bumper bracket to the left and to the right from the chassis base panel and remove the bumper assembly together with brackets and guards (Fig. 88 — 5/1).

### Installation:

2. Install the assembled front or rear bumper, align it, and screw it to the chassis base panel.

**Note:** When installing the rear bumper, make sure that the rubber buffers (33) are not displaced (Fig. 88 — 5/3).

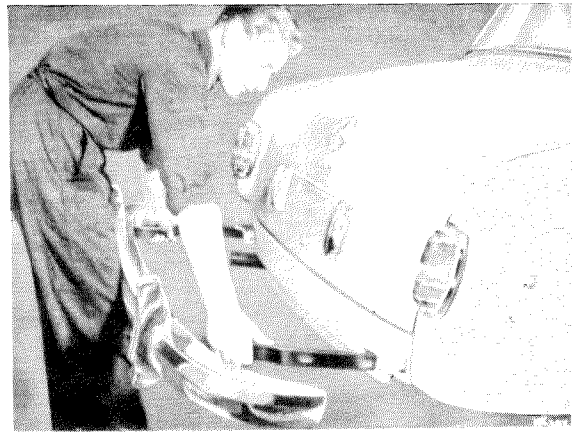


Fig. 88 — 5/1

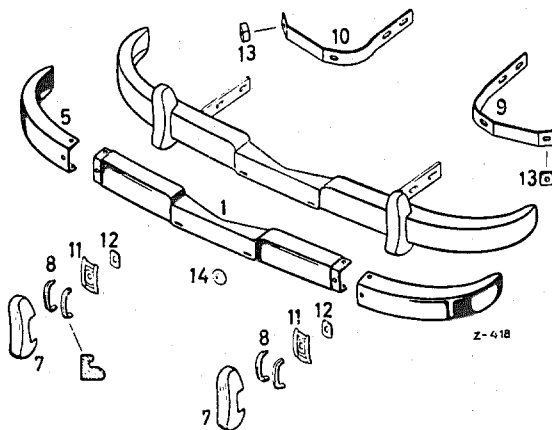


Fig. 88 — 5/2

Front bumper

- |                                                       |                   |
|-------------------------------------------------------|-------------------|
| 1 Center bumper                                       | 9 Bracket, left   |
| 4 End bar, left                                       | 10 Bracket, right |
| 5 End bar, right                                      | 11 Mounting plate |
| 7 Guard, left and right                               | 12 Washer         |
| 8 Rubber section 170 mm long between guard and bumper | 13 Square nut     |
|                                                       | 14 Rubber washer  |

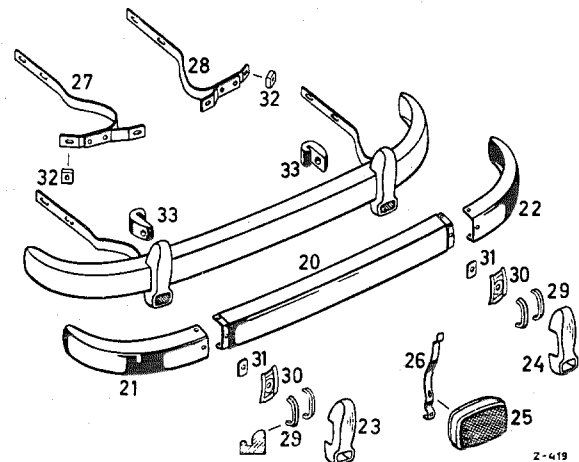


Fig. 88 — 5/3

Rear bumper

- |                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| 20 Center bar     | 28 Bracket, right                                                         |
| 21 End bar, left  | 29 Rubber section 170 mm long for bumper guard and bumper at rear bracket |
| 22 End bar, right | 30 Mounting plate                                                         |
| 23 Guard, left    | 31 Washer                                                                 |
| 24 Guard, right   | 32 Square nut                                                             |
| 25 Rear reflector | 33 Rubber washer                                                          |
| 26 Spring         |                                                                           |
| 27 Bracket, left  |                                                                           |

## B. Removal and Installation of the End Bar of the Left or Right Bumper

### Removal:

1. Remove the bumper (see Section A).

2. Unscrew the two screws fixing the bracket and take off the guard with rubber section, mounting plate, and washer.

3. Unscrew the upper and lower button-head screw fixing the end bar to the center bar, and remove the end bar.
4. If necessary, straighten the bracket.

**Installation:**

5. Cement the rubber sections (8) or (29) to the bumper guards.  
Otherwise installation is the reverse of the removal procedure.

### **C. Removal and Installation of Left or Right Rear Reflector**

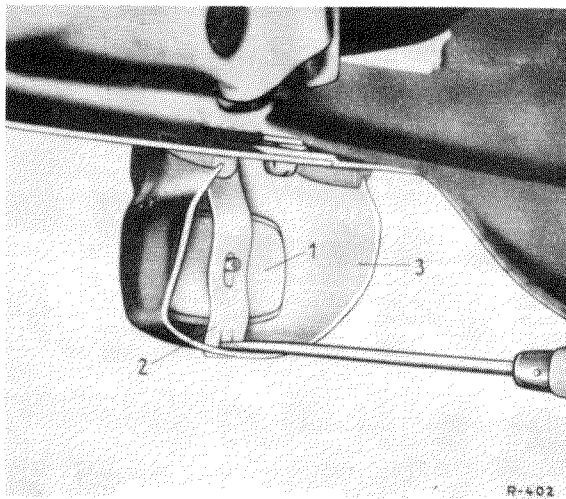
The rear reflectors (1) are fitted into the guards (23) and (24) of the rear bumper and are held in position by a spring (2) (see Fig. 88 — 5/3 and Fig. 88 — 5/4).

**Removal:**

1. Use a screw driver to press the spring (2) to the rear from below and at the same time to push it upward (Fig. 88 — 5/4). Then take out the rear reflector and spring.

**Installation:**

2. Install the rear reflector together with the spring and slide it into the slot of the bumper guard, pressing it to the rear at the same time.



**Fig. 88 — 5/4**

- 1 Rear reflector
- 2 Spring
- 3 Bumper guard