

P62.30-2799-09

**Shown on model 221**

- 1 Sealing strip
- 2 Cover

- 3 Engine cover
- 4 Right air duct
- 5 Left air duct

- 19 Bolts
- 21 Stop buffer



P62.30-2805-09

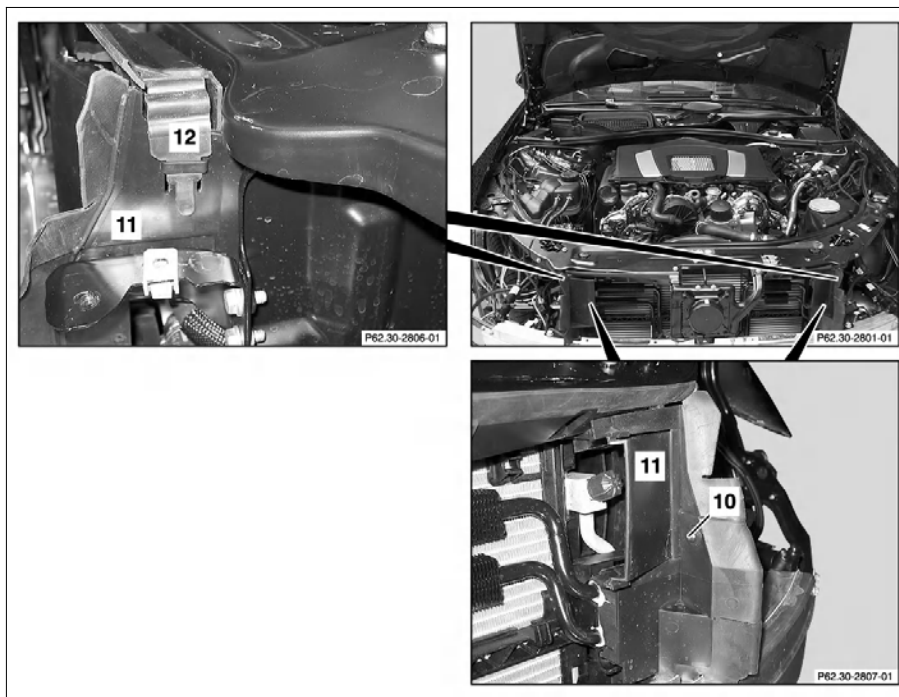
**Shown on model 221**

- 6 Hood release cable connector
- 7 Hood release cable

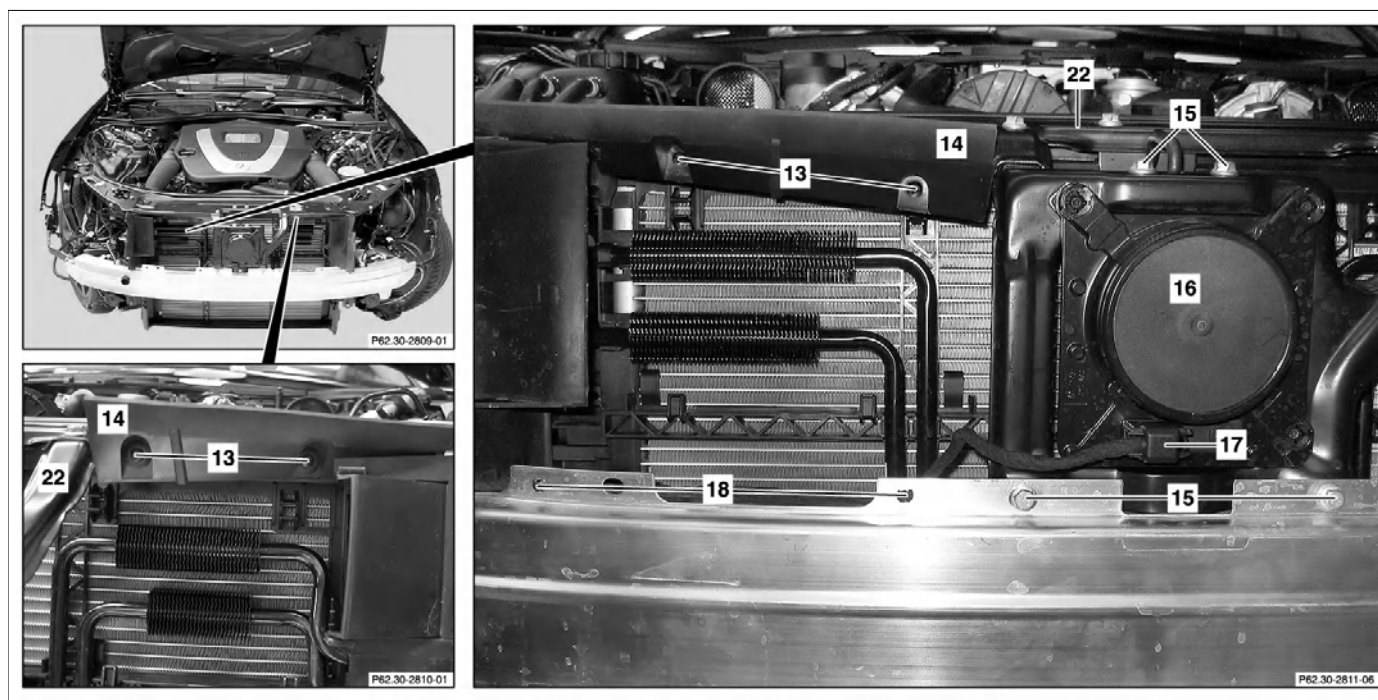
- 8 Radiator mounting clip
- 9 Radiator fastening

**Shown on model 221**

- 10 Screw clip
- 11 Side radiator air guide
- 12 Lug



P62.30-2808-06



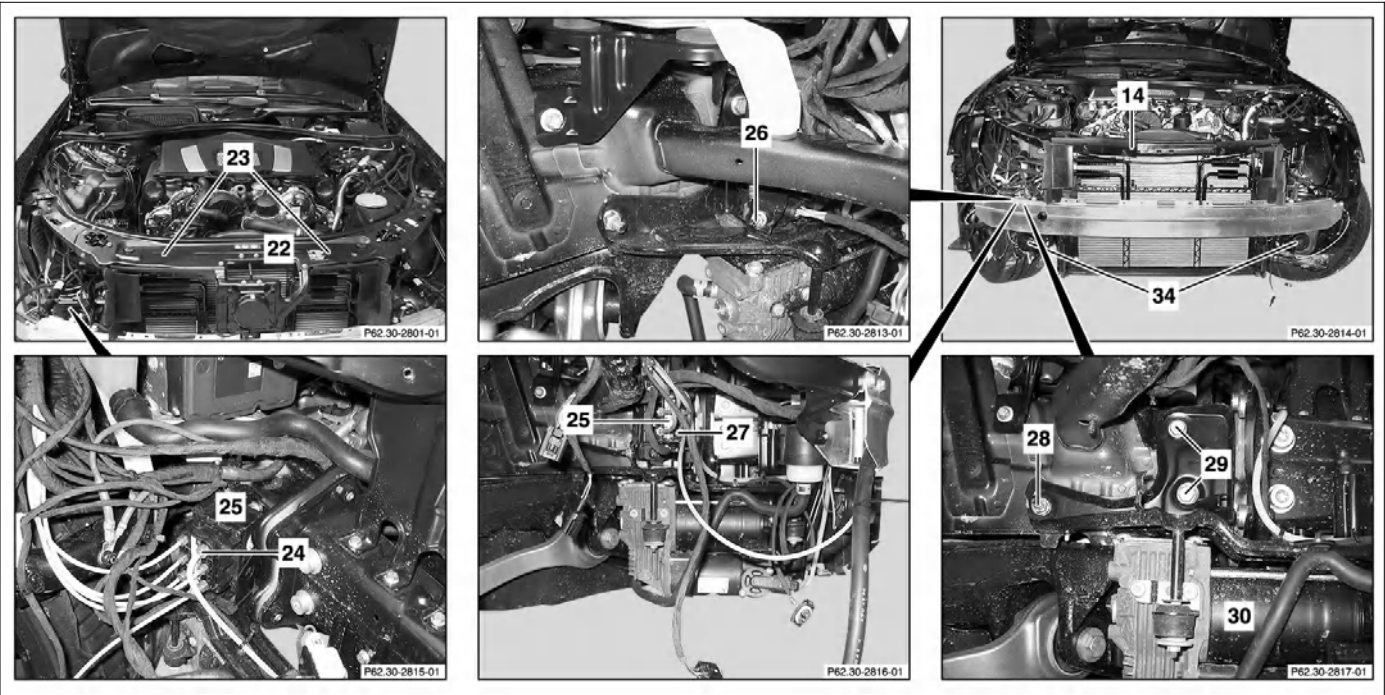
P62.30-2812-09

**Shown on model 221**

- 13 Threaded clips
- 14 Top radiator air guide

- 15 Bolts
- 16 DTR radar sensor (A89b1)
- 17 Electrical connector

- 18 Mounting clips
- 22 Front center reinforcement



P62.30-2818-09

**Shown on model 221**

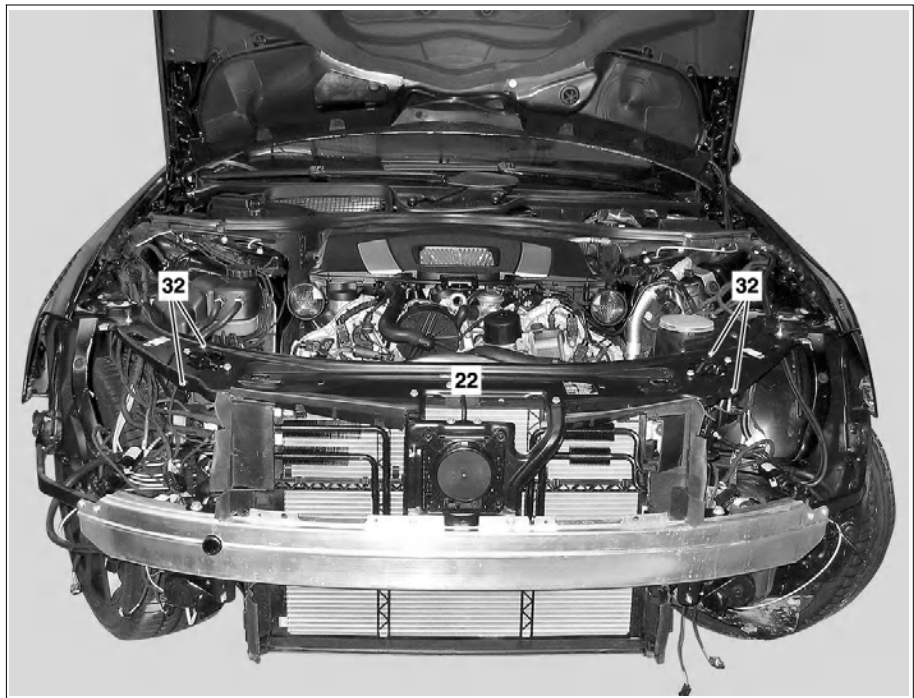
- 14 Top radiator air guide
- 22 Front center reinforcement
- 23 Retaining clips

- 24 Pressure line
- 25 Valve unit
- 26 Nut
- 27 Pressure line

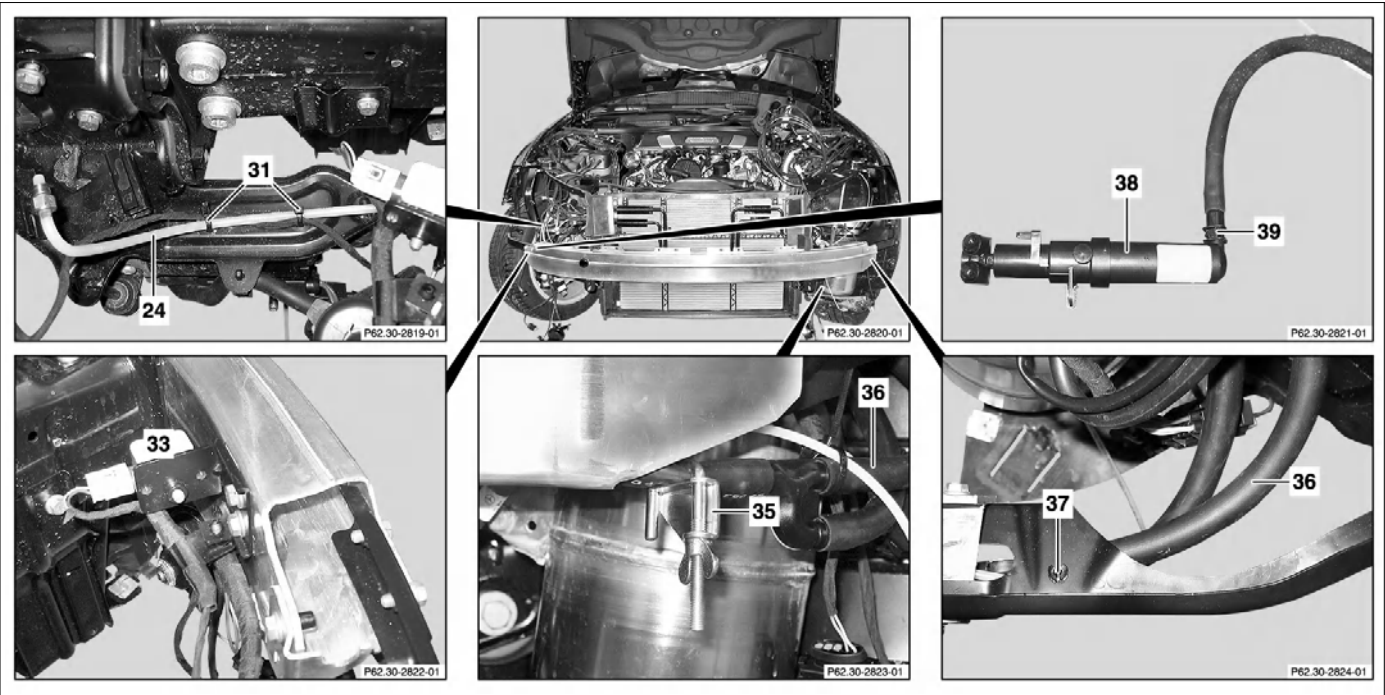
- 28 Nut
- 29 Bolts
- 30 Compressor
- 34 Fanfare horns

**Shown on model 221**

- 22 Front center reinforcement
- 32 Bolts



P62.10-2140-06



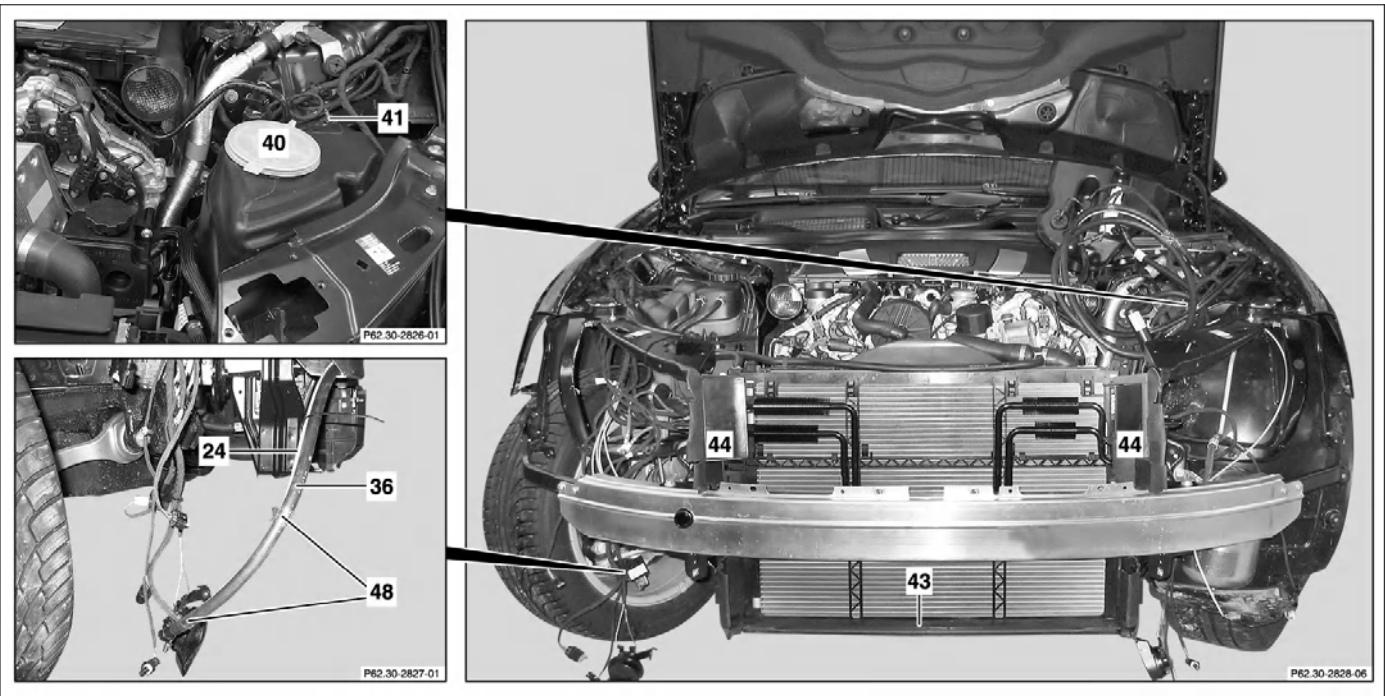
P62.30-2825-09

**Shown on model 221**

- 31 Cable tie
- 33 Frontal acceleration sensor

- 35 Hose clamp
- 36 Washer fluid hose
- 37 Mounting clip

- 38 Telescopic nozzle
- 39 Fuse



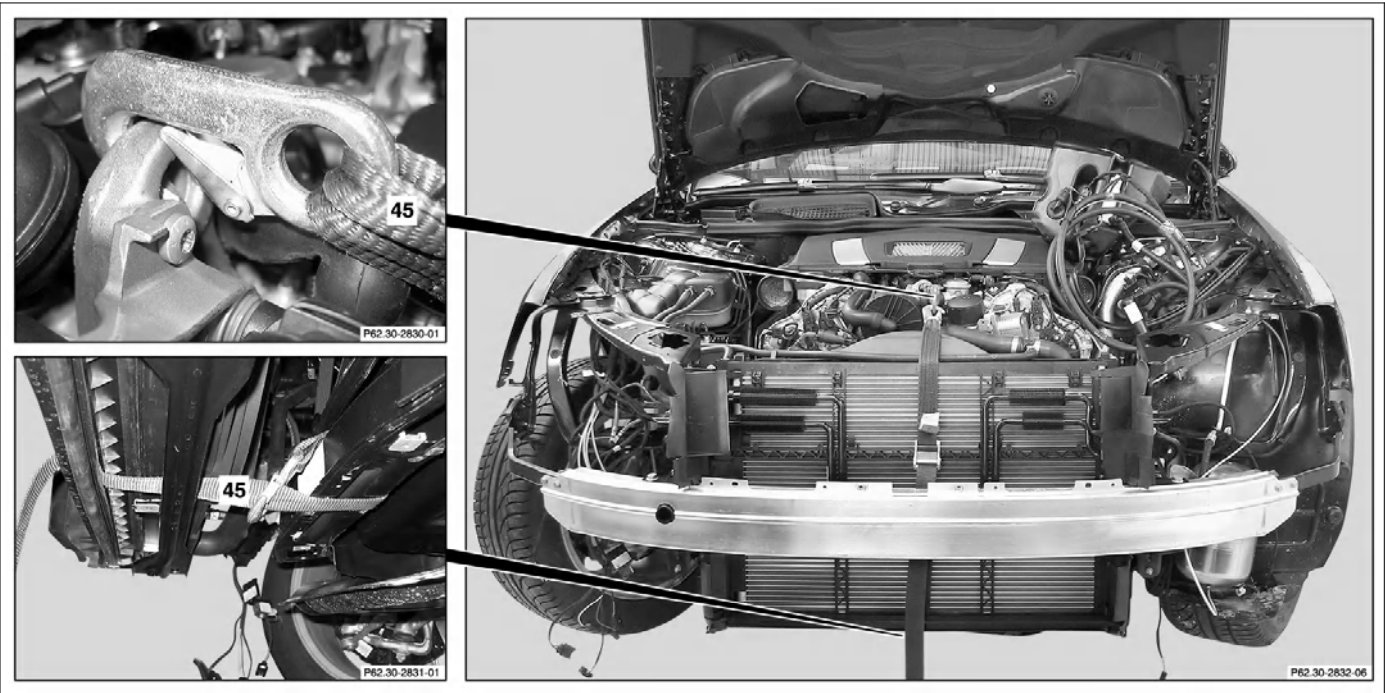
P62.30-2829-09

**Shown on model 221**

- 24 Pressure line
- 36 Washer fluid hose

- 40 Washing water reservoir
- 41 Nut
- 43 Bottom radiator air guide

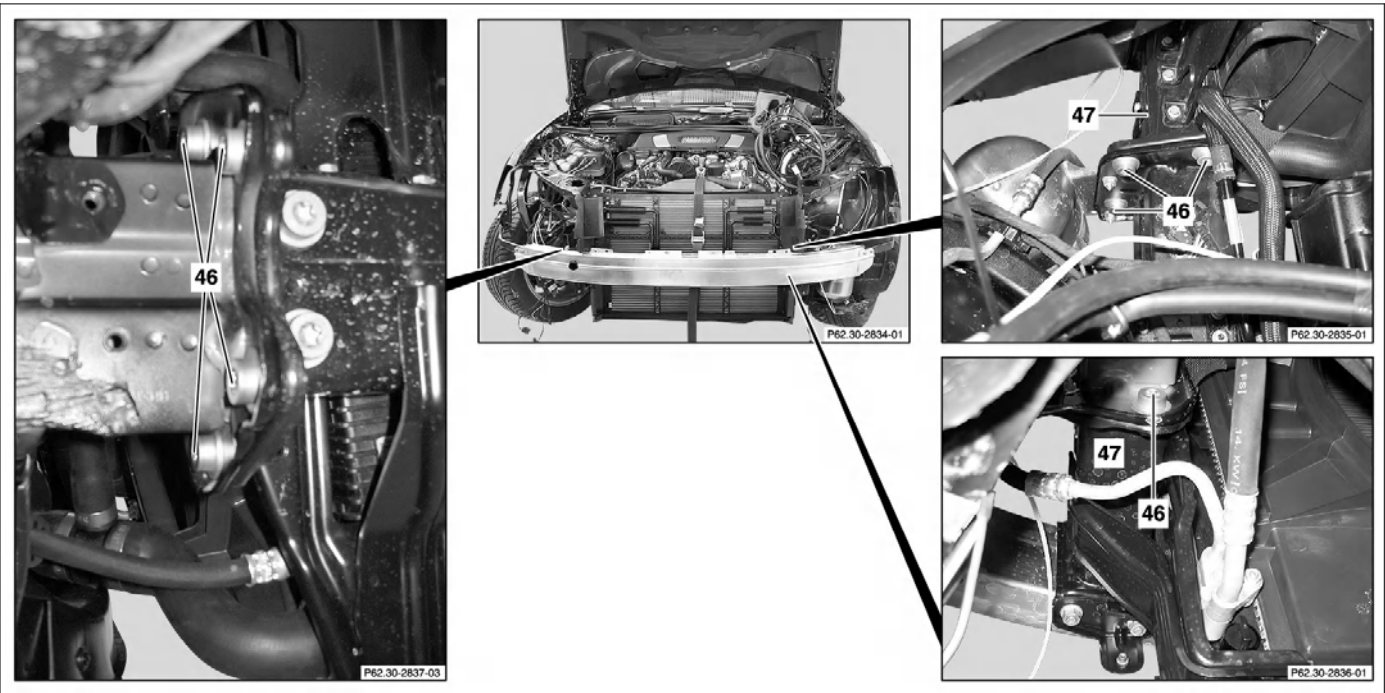
- 44 Side radiator air guide
- 48 Adhesive tape



P62.30-2833-09

Shown on model 221

45 Fastening strap












P62.30-2838-09








Shown on model 221

46 Bolts

47 Front Module

|                |  |  |                                       |
|----------------|--|--|---------------------------------------|
|                | <b>Removing</b>  |  |                                       |
| <b>Danger!</b> | <b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform. | Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer. | AS00.00-Z-0010-01A                    |
| <b>Danger!</b> | <b>Risk of explosion from pressurized spray cans</b>                                     | Protect cans from direct sunlight and temperatures above 50 °C   | AS00.00-Z-0015-01A                    |
| <b>Danger!</b> | <b>Risk of injury</b> caused by scraping or cutting body parts on sharp vehicle parts    | Always wear protective gloves when working on or near sharp and non-deburred vehicle parts.<br>Deburr repair panels.                             | AS00.00-Z-0017-01A                    |
|                | General information on body repair   |  | AH60.00-N-0001-01A                    |
| 1              | Remove lower engine compartment paneling   | Vehicles without code (Z07) Top protection<br>Vehicles with code (Z07) Top protection  | AR61.20-P-1105SX<br>AR61.20-P-1105SXS |
| 2              | Remove front bumper  |  | AR88.20-P-2000SX                      |
| 3              | Remove lamp unit   |  | AR82.10-P-4730SX                      |

|  |   |  |   |
|--|---|--|---|
| 4  | Remove engine hood catch bottom section   |  | AR88.40-P-3200SX                                |
| 5  | Remove apex seal (1)  |  |   |
| 6  | Remove cover (2) on left and right  |  |   |
| 7  | Remove engine cover (3)   |  |   |
| 8  | Remove right air duct (4) and left air duct (5)                                 |  |   |
| 9  | Remove bolts (19)   |  |   |
| 10   | Remove stop buffer (21).  |  |   |
| 11   | Open hood release cable coupling (6)  |  |   |
| 12   | Separate hood release cable (7) from hood release cable coupling (6)            |  |   |
| 13   | Pull out left and right radiator mounting clip (8)                              |  |   |
| 14   | Press left and right radiator mounting (9) together and pull out upward         |  |   |
| 15   | Unclip threaded clip (10) from side radiator air guide (11) on left and right   |  |   |
| 16   | Pull out lug (12) on side radiator air guide (11)                               |  |   |
| 17   | Unclip threaded clip (13) from top radiator air guide (14)                      |  |   |
| 18   | Unclip wiring harness with mounting clips (18)                                  | With code 219 Distronic (DTR)  |   |
| 19   | Disconnect electrical connector (17) on DTR radar sensor (A89b1) (16)           | With code 219 Distronic (DTR)  |   |
| 20   | Remove screws (15) on DTR radar sensor (A89b1) (16)                             | With code 219 Distronic (DTR)  |   |
| 21   | Unclip hood release cable (7) from retaining clip (23)                          |  Hood release cable (7) runs along the bottom of the middle front reinforcement (22).   |   |
| 22   | Remove screws (32) from middle front reinforcement (22)                         |  |   |
| 23   | Remove center front reinforcement (22)  |  |   |
| 24   | Remove top radiator air guide (14)  |  |   |
| 25   | Remove fanfare horn (34)  |  |   |
| 26   | Unscrew pressure line (24) to compressor unit from valve unit (25)              |  |   |
| 27   | Unscrew pressure line (27) to central reservoir on valve unit (25)              |  |   |
| 28   | Loosen nut (26) on valve unit (25)  |  |   |
| 29   | Place valve unit (25) down to side  |  |   |
| 30   | Unscrew nut (28)  |  |   |
| 31   | Remove bolts (29)   |  |   |
| 32   | Remove compressor (30) and place down to side                                   |  |   |
| 33   | Disconnect cable strap (31) from compressor (30)                                |  |   |
| 34   | Remove frontal acceleration sensor (33)   |  Lay front acceleration sensor (33) down to side.   |   |
| 35   | Unclip washer fluid hose (36) with mounting clip (37)                           | with code 600 Headlamp cleaning system   |   |
| 36   | Clamp off washer fluid hose (36) with hose clamp (35)                           | with code 600 Headlamp cleaning system   |   |
| 37   | Press retainer (39) into telescopic nozzle (38)                                 | with code 600 Headlamp cleaning system   |   |
| 38   | Remove telescopic nozzle (38)   | with code 600 Headlamp cleaning system   |   |
| 39   | Fasten washer fluid hose (36) and pressure line (24) with adhesive tape (48)    | with code 600 Headlamp cleaning system   |   |
| 40   | Pull washer fluid hose (36) and pressure line (24) out of crossmember           | with code 600 Headlamp cleaning system   |   |
| 41   | Unscrew nut (41)  |  |   |
| 42   | Lay washer fluid reservoir (40) down to side                                    |  |   |
| 43   | Remove bottom radiator air guide (43)   |  |   |
| 44   | Unclip and remove side radiator air guide (44)                                  |  |   |
| 45   | Fasten radiator with fastening belt (45)  |  Adapter for fastening belt<br> Adapter for fastening belt<br> Fastening belt | *171589056300<br>*209589006300<br>*211589056300 |
| 46   | Remove screws (46) on left and right longitudinal members                       |  |   |
| 47   | Remove front module (47)  |  |   |
|  | <b>Install</b>  |  |   |
| 48   | Install front module (47)   |  |   |
| 49   | Screw front module (47) to left and right longitudinal members with screws (46) |  Position bolts loosely.  |   |
| 50   | Adjust front module (47)  |  Fit middle front reinforcement (22), lamp unit and front bumper for adjustment work.<br> Bolt, front end to longitudinal member                                 | AR62.30-P-1570-01SX<br>*BA62.30-P-1001-02F      |

|    |  |  |  |
|----|--|--|--|
|    |  |  Screw for outer reinforcement to fender mount  | *BA62.30-P-1002-02F  |
| 51 | Adjust gap dimensions on hoods, doors and lids                                 | Model 216 gap dimensions<br><br> Feeler gauge<br>Engine hood to fender<br>Engine hood to headlamp<br>Engine hood to bumper<br>Model 221 gap dimensions<br> Feeler gauge<br>Engine hood to fender<br>Engine hood to headlamp<br>Engine hood to bumper | AR60.00-P-0700-01SC<br><br>*129589032100<br>*BE60.00-P-1001-01T<br>*BE60.00-P-1001-01T<br>*BE60.00-P-1001-01T<br>AR60.00-P-0700-01SX<br>*129589032100<br>*BE60.00-P-1001-01R<br>*BE60.00-P-1001-01R<br>*BE60.00-P-1001-01R |
| 52 | Apply wax preservation to connections on body                                  |  After adjustment work as well as removal and installation of front module parts.<br>Preservation agent<br>MB cavity wax preservation, 1 l  | *BR00.45-Z-1011-05A<br>*BR00.45-Z-1015-05A   |
| 53 | Remove center front reinforcement (22)   |  |  |
| 54 | Loosen fastening belt (45) on radiator   |  Adapter for fastening belt<br> Adapter for fastening belt<br> Fastening belt   | *171589056300<br>*209589006300<br>*211589056300  |
| 55 | Remove fastening belt (45)   |  |  |
| 56 | Install and clip in side radiator air guide (44)                               |  |  |
| 57 | Install bottom radiator air guide (43)   |  |  |
| 58 | Install washer fluid reservoir (40)  |  |  |
| 59 | Screw on washer fluid reservoir (40) with nut (41)                             |  |  |
| 60 | Thread washer fluid hose (36) and pressure line (24) through crossmember       | with code 600 Headlamp cleaning system   |  |
| 61 | Separate adhesive tape (48) from washer fluid hose (36) and pressure line (24) | with code 600 Headlamp cleaning system   |  |
| 62 | Install telescopic nozzle (38)   | with code 600 Headlamp cleaning system   |  |
| 63 | Loosen hose clamp (35) from washer fluid hose (36)                             | with code 600 Headlamp cleaning system   |  |
| 64 | Fasten washer fluid hose (36) with mounting clip (37)                          | with code 600 Headlamp cleaning system   |  |
| 65 | Install frontal acceleration sensor (33)                                       |  |  |
| 66 | Screw tight compressor (30) with bolts (29) and nut (28)                       |  |  |
| 67 | Fasten pressure line (24) with cable tie (31)                                  |  |  |
| 68 | Screw tight valve unit (25) with nut (26)                                      |  |  |
| 69 | Screw pressure line (27) to central reservoir on valve unit (25)               |  |  |
| 70 | Screw pressure line (24) to compressor unit with valve unit (25)               |  |  |
| 71 | Install fanfare horn (34)  |  |  |
| 72 | Install top radiator air guide (14)  |  |  |
| 73 | Install front center reinforcement (22)  |  |  |
| 74 | Screw tight center front reinforcement (22) with screws (32)                   |  |  |
| 75 | Clip hood release cable (7) into retaining clips (23)                          |  |  |
| 76 | Install DTR radar sensor (A89b1) (16) and screw tight with screws (15)         | With code 219 Distronic (DTR)  |  |
| 77 | Connect electrical connector (17) to DTR radar sensor (A89b1) (16)             | With code 219 Distronic (DTR)  |  |
| 78 | Clip in wiring harness with mounting clips (18)                                | With code 219 Distronic (DTR)  |  |
| 79 | Fasten top radiator air guide (14) with threaded clips (13)                    |  |  |
| 80 | Fasten lug (12) in side radiator air guide (11)                                |  |  |
| 81 | Fasten side radiator air guide (11) with threaded clip (10) on left and right  |  |  |
| 82 | Press in radiator mount (9) on left and right                                  |  |  |
| 83 | Press radiator mount clip (8) on left and right into radiator mount (9)        |  |  |
| 84 | Connect hood release cable (7) to hood release cable coupling (6)              |  |  |
| 85 | Connect hood release cable connector (6)                                       |  |  |
| 86 | Screw in stop buffer (21)  |  |  |
| 87 | Screw in screws (19)   |  |  |
| 88 | Install right air duct (4) and left air duct (5)                               |  |  |
| 89 | Install engine cover (3)   |  |  |


|    |   |   |                                       |
|----|---|---|---------------------------------------|
| 90 | Install cover (2) on left and right                       |   |                                       |
| 91 | Install apex seal (1).                                    |   |                                       |
| 92 | Install detachable body components in area to be repaired |   |                                       |
| 93 | Install engine hood lock bottom section                   |   | AR88.40-P-3200SX                      |
| 94 | Install lamp unit   |   | AR82.10-P-4730SX                      |
| 95 | Install front bumper                                      |   | AR88.20-P-2000SX                      |
| 96 | Install lower engine compartment paneling                 | Vehicles without code (Z07) Top protection<br>Vehicles with code (Z07) Top protection | AR61.20-P-1105SX<br>AR61.20-P-1105SXS |

**Check values for gaps**

| Number             | Designation   |                         |                  | Model 216 up to model year 2011 | Model 216 as of model year 2011 |
|--------------------|---------------|-------------------------|------------------|---------------------------------|---------------------------------|
| BE60.00-P-1001-01T | Gap dimension | Engine hood to fender   | Dimension "A" mm | 3.5 (±0.5)                      | 3.5 (±0.5)                      |
|                    |               | Engine hood to headlamp | Dimension "B" mm | 3.5 (±0.5)                      | 3.5 (±0.5)                      |
|                    |               | Engine hood to A-pillar | Dimension "D" mm | 4.0 (±0.5)                      | 4.0 (±0.5)                      |
|                    |               | Radiator grille/bumper  | Dimension "C" mm | 5.0 (±1.0)                      | 2.0 (±1.0)                      |
|                    |               | Engine hood to bumper   | Dimension "P" mm | 5.0 (±1.0)                      | 5.0 (±1.0)                      |
|                    |               | Bumper to headlamp      | Dimension "Q" mm | 3.5 (±0.5)                      | 3.5 (±0.5)                      |
|                    |               | See picture             |                  | AR60.00-P-0700-01SC             | AR60.00-P-0700-01SC             |

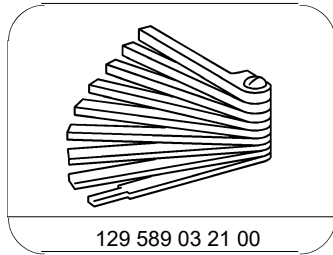
**Check values for gaps**

| Number             | Designation   |                         |                  | Model 221           |
|--------------------|---------------|-------------------------|------------------|---------------------|
| BE60.00-P-1001-01R | Gap dimension | Engine hood to fender   | Dimension "A" mm | 3.5 (±0.5)          |
|                    |               | Engine hood to headlamp | Dimension "B" mm | 3.5 (±0.5)          |
|                    |               | Radiator grille/bumper  | Dimension "C" mm | 5 (±1)              |
|                    |               | Engine hood to bumper   | Dimension "P" mm | 5 (±1.5)            |
|                    |               | Bumper to headlamp      | Dimension "Q" mm | 3.5 (±0.5)          |
|                    |               | Bumper to fender        | Dimension "R" mm | 3.5 (±0.5)          |
|                    |               | See picture             |                  | AR60.00-P-0700-01SX |

** Front end assembly with front reinforcement**

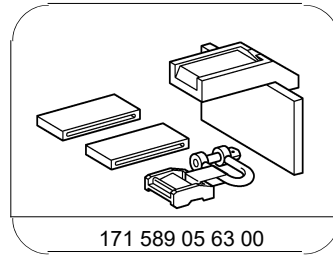


| Number             | Designation                                      |    | Model 216 | Model 221 |
|--------------------|--|----|-----------|-----------|
| BA62.30-P-1001-02F | Bolt connecting front end to longitudinal member | Nm | 55        | 55        |
| BA62.30-P-1002-02F | Bolt, outer reinforcement to fender bracket      | Nm | 10        | 10        |



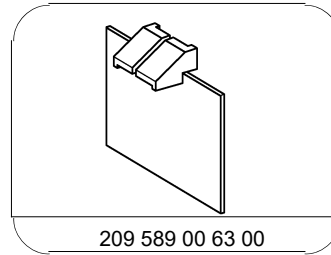
129 589 03 21 00

Feeler gauge



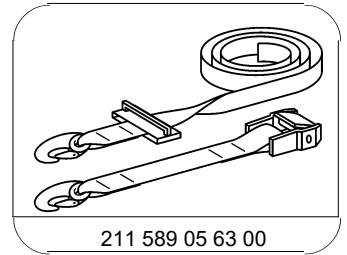
171 589 05 63 00

Adapter for fastening belt



209 589 00 63 00

Adapter for fastening belt



211 589 05 63 00

Fastening strap

### Repair materials

| Number             | Designation                                       | Order number       |
|--------------------|---|--------------------|
| BR00.45-Z-1011-05A | Cavity preservation, solvent-free (1 l container) | A 000 986 72 70 10 |
| BR00.45-Z-1015-05A | Preservation agent                                | A 000 989 72 70 10 |