

GENERAL

51 00 ... SAFETY INSTRUCTIONS FOR WORKING ON CARS WITH AIRBAG SYSTEMS

WARNING: If work is carried out in area of AIRBAG systems, e.g. on:

- Door trim panels
- Interior trims
- Instrument panel etc.

the ignition must be turned off in each case.

- The ignition must always be off.
- The ignition key must be removed from the ignition lock.

This eliminates the risk of injury.

51 00... SERVICE POSITION OF ENGINE HOOD

Special tool setup:

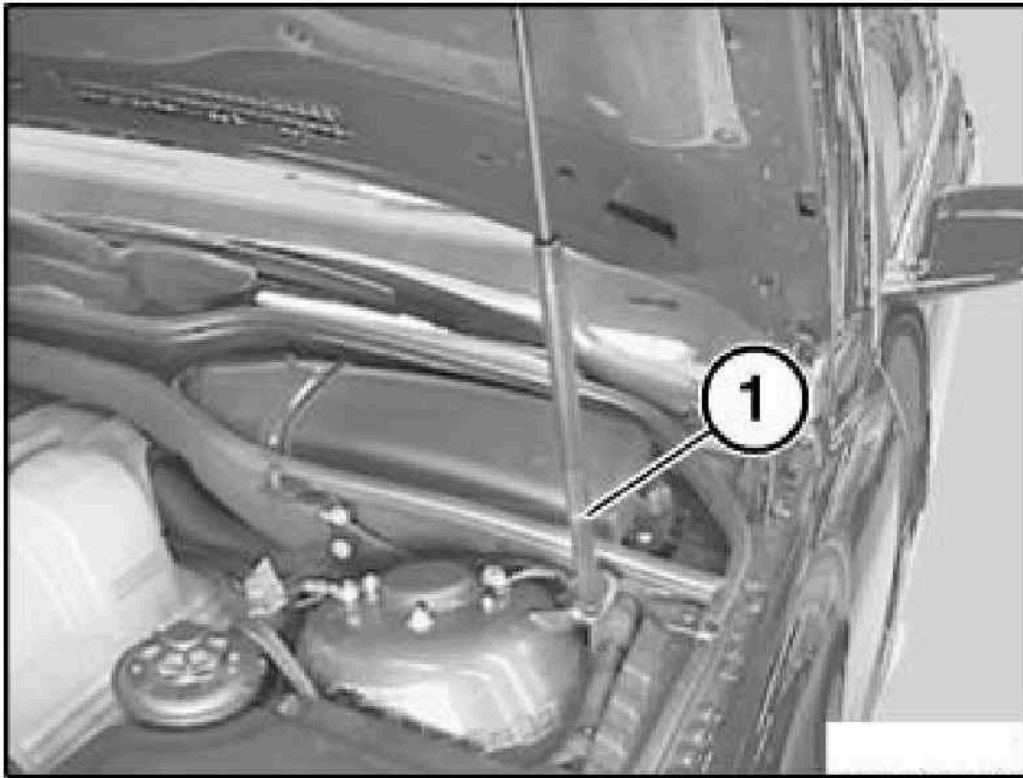
SPECIAL TOOL SETUP CHART

Model series	Special tool
E46, E90, E91, R50, R52, R53	51 2 160
E53, E85, E60, E61, E63, E64, E87	51 2 170
E65, E66, E67	51 2 180
E83	51 0 040

WARNING: A second person must hold the engine hood (risk of injury and damage).

NOTE: The illustrations below serve as examples for all corresponding vehicles. The operation is described on the left side; proceed in the same way for the right side.

Special tool can only be used on housing (1) of gas spring strut (thick part).



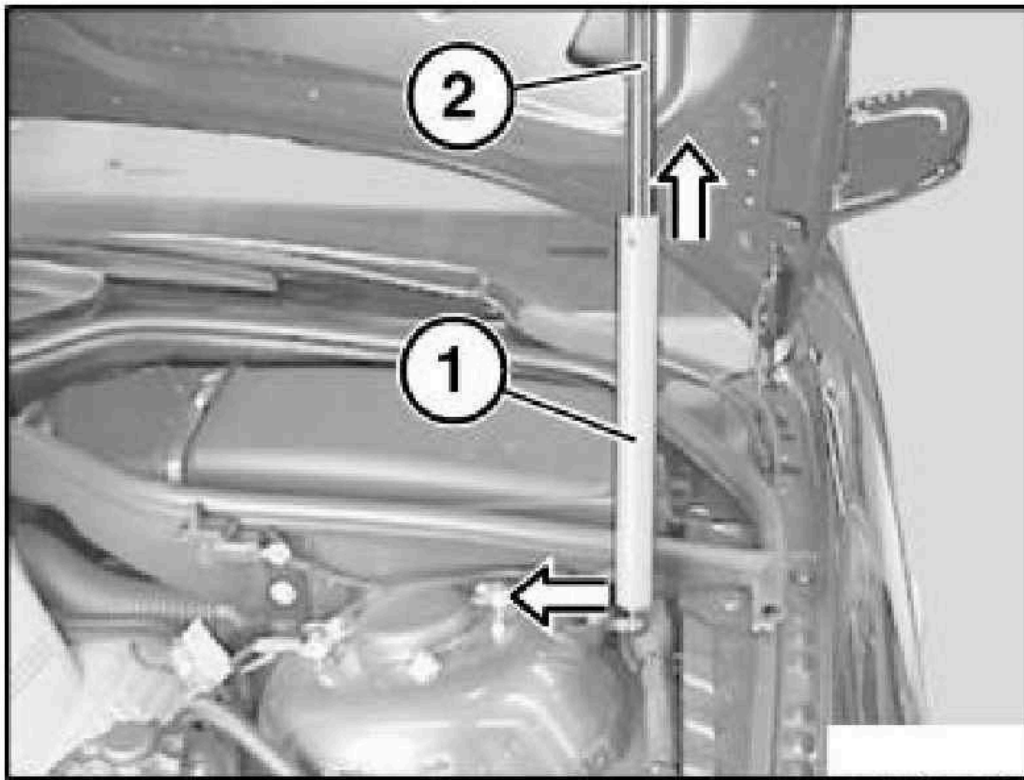
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Fig. 1: Identifying Gas Spring Strut Housing
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Gas spring strut can also be installed the other way round (housing on hood).
Special tool can be used in both directions.

Release gas spring strut on left/right housing side. Refer to **51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE BONNET/HOOD.**

Slide special tool (1) over housing (2) of gas spring strut.



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Fig. 2: Sliding Special Tool Over Housing
Courtesy of BMW OF NORTH AMERICA, INC.

Clip ball socket of special tool on ball stud.

Proceed in same way on other side.

FRONT BUMPER

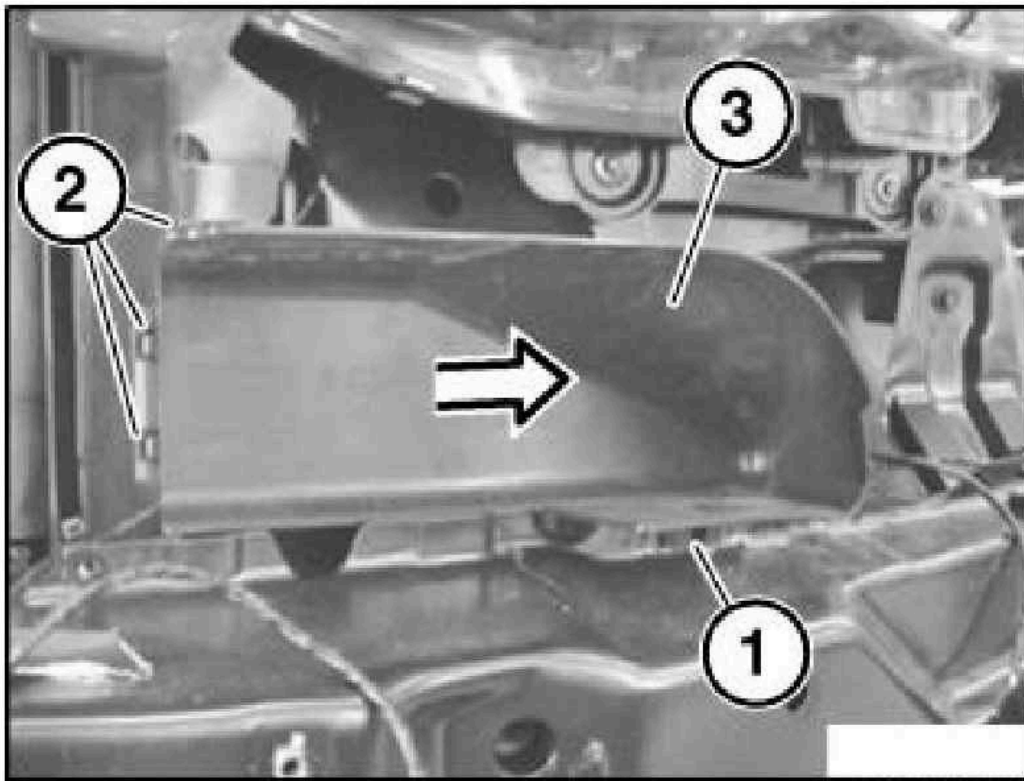
51 11 050 REMOVING AND INSTALLING/REPLACING MEMBER (CROSS-MEMBER) FOR FRONT BUMPER TRIM

Necessary preliminary tasks:

- Remove underide protection, refer to **51 71 378 REMOVING AND INSTALLING/REPLACING UNDERIDE PROTECTION**

NOTE: The operation is described on the left side; proceed in the same way for the right side.

Lever lower trim (3) out of guide (1).

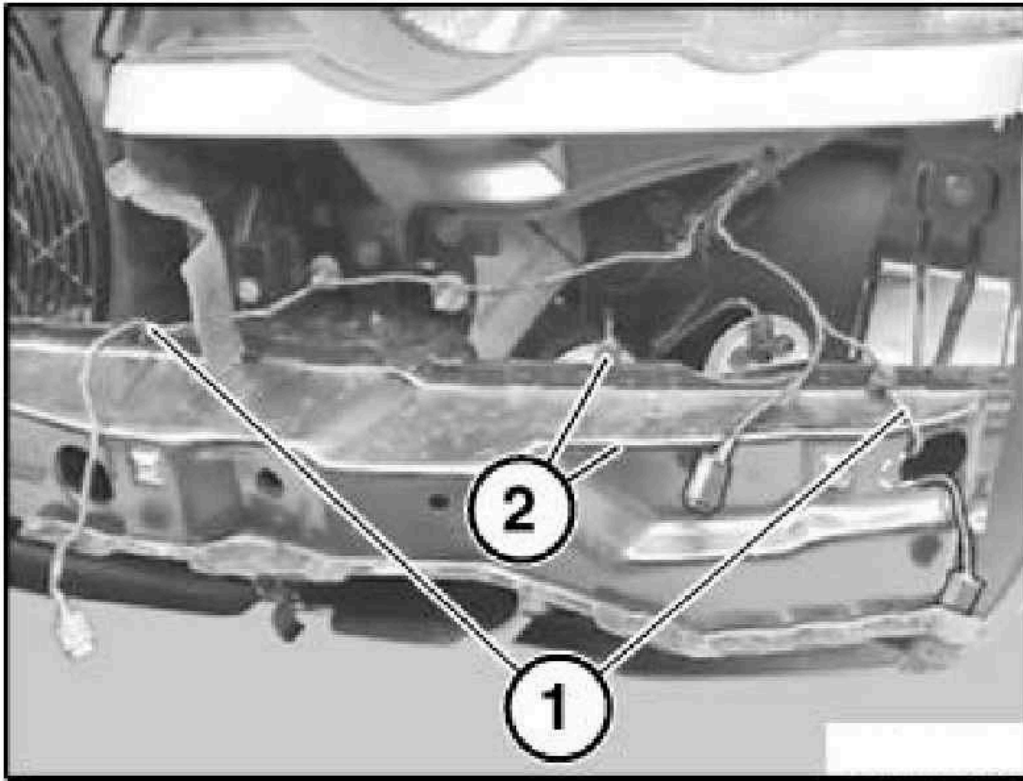


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Fig. 3: Removing Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Unlock catches (2) and remove trim (3) in direction of arrow.

Release cable ties (1).

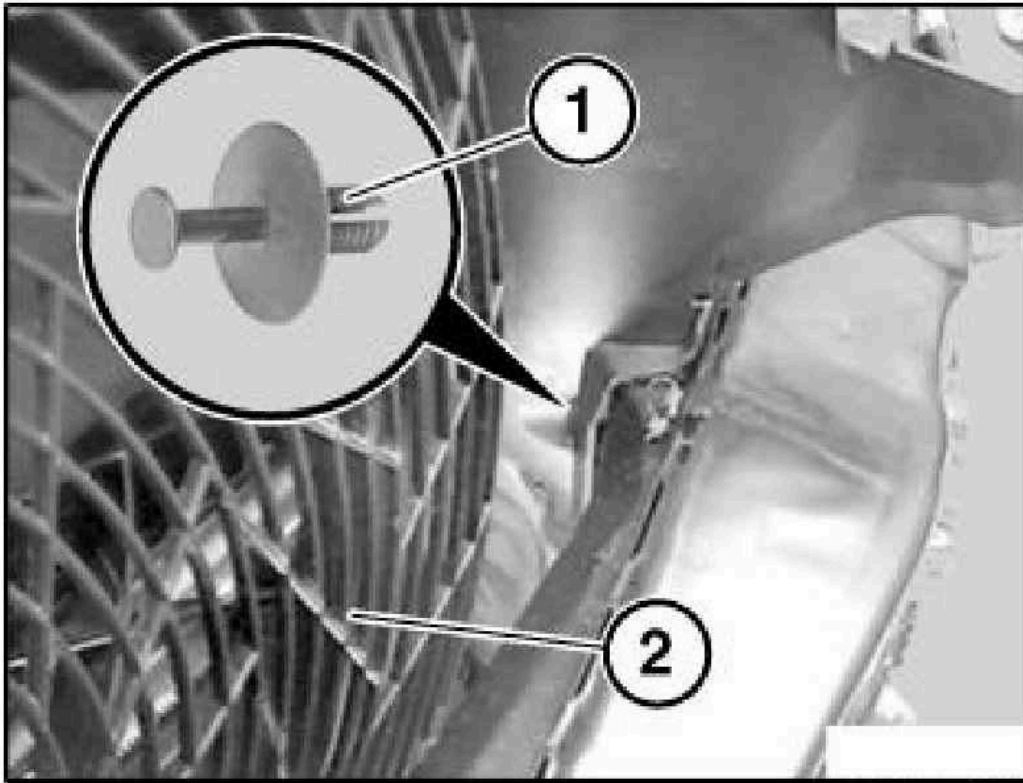


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Fig. 4: Disconnecting Plug Connections For Fanfare Horns
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connections (2) for fanfare horns.

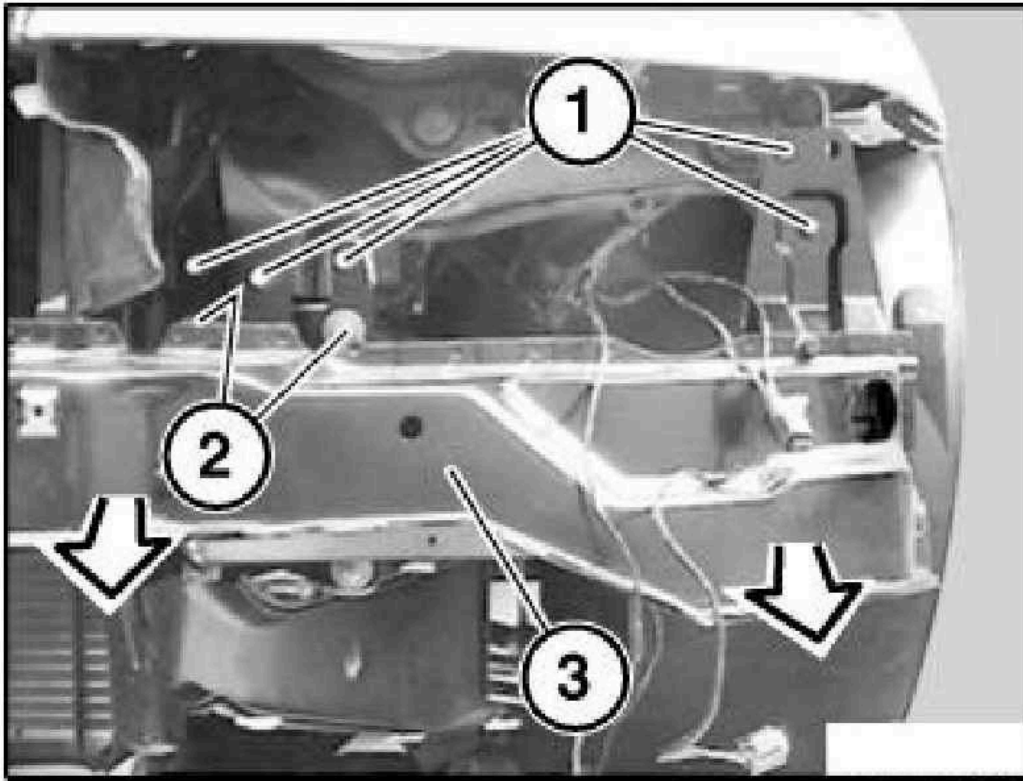
Release expander rivet (1) from fan impeller (2).



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Fig. 5: Releasing Expander Rivet From Fan Impeller
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For vertical adjustment, mark position of member (3).



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Fig. 6: Releasing Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

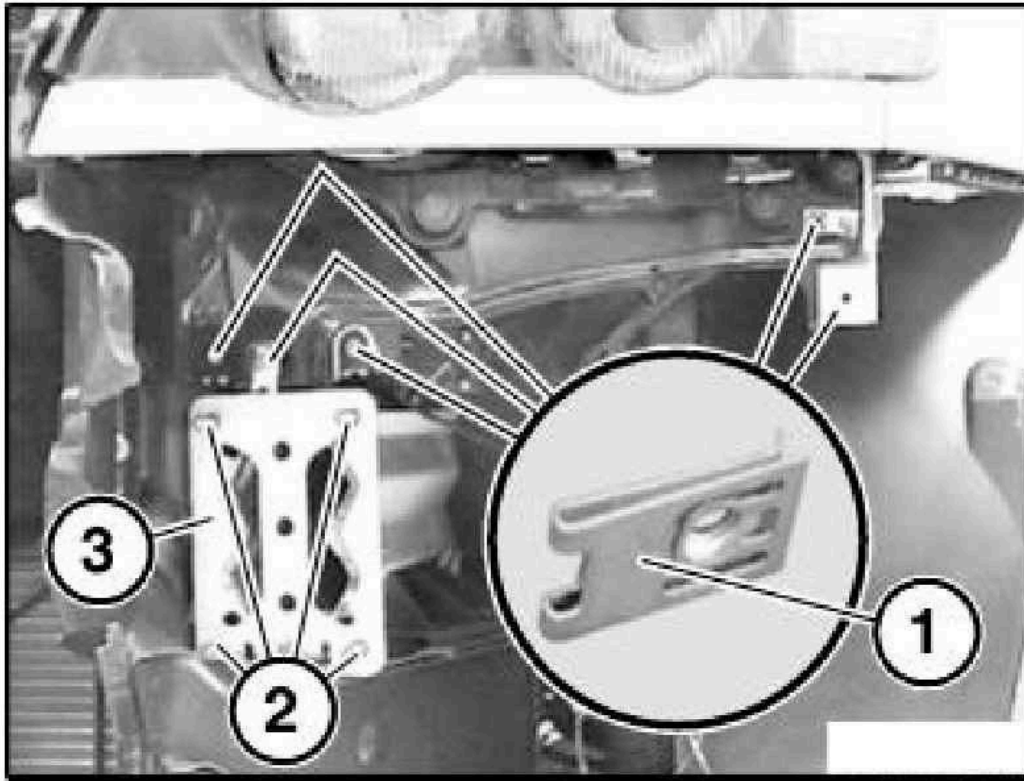
Release nuts (2) and remove member (3) towards front.

Installation:

Adjust gap dimensions.

Installation:

If necessary, replace faulty metal nuts (1).



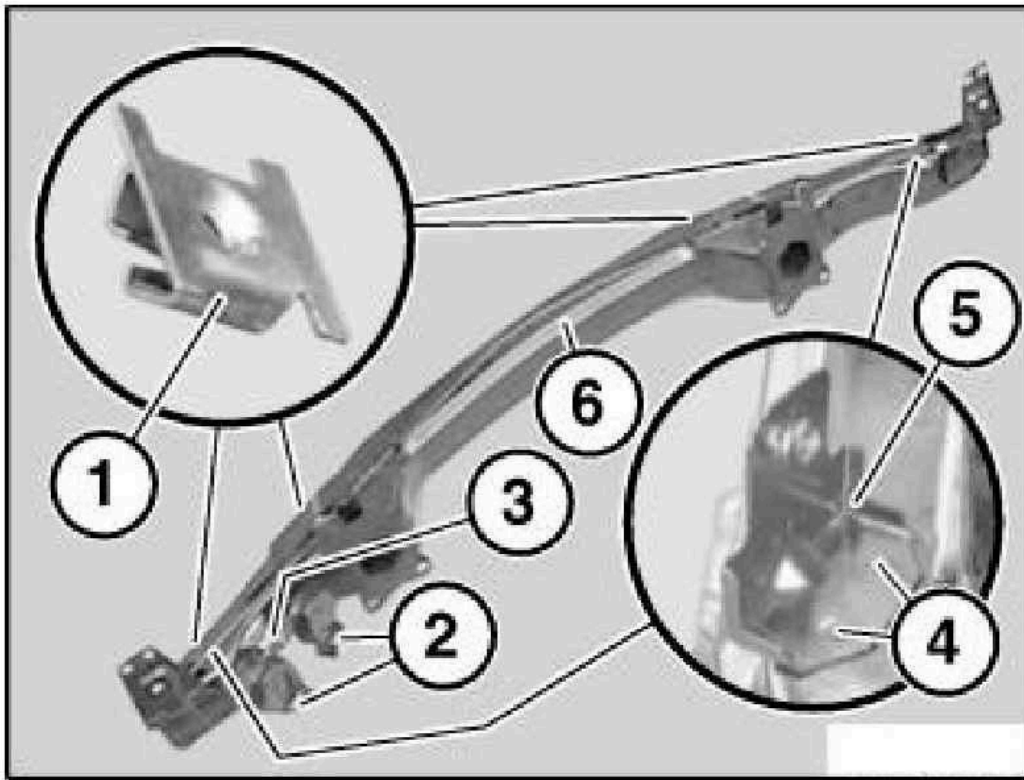
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Fig. 7: Replacing Faulty Metal Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Stud bolts (2) on member (3) must not be damaged.

Installation:

If necessary, replace faulty metal nuts (1) on member (6).



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Fig. 8: Locating Member Components
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

Release nut (3) and remove fanfare horns (2).

Version up to 10/03:

Release welding spots (4), remove holder (5) and protect bright metal plate against rusting.

51 11 154 REMOVING AND INSTALLING/REPLACING ATTACHMENT FOR FRONT BUMPER TRIM (HP)

NOTE: Refer to KSD CD for details of preliminary tasks.

Release spring clips (1) in area (2) on left and right.