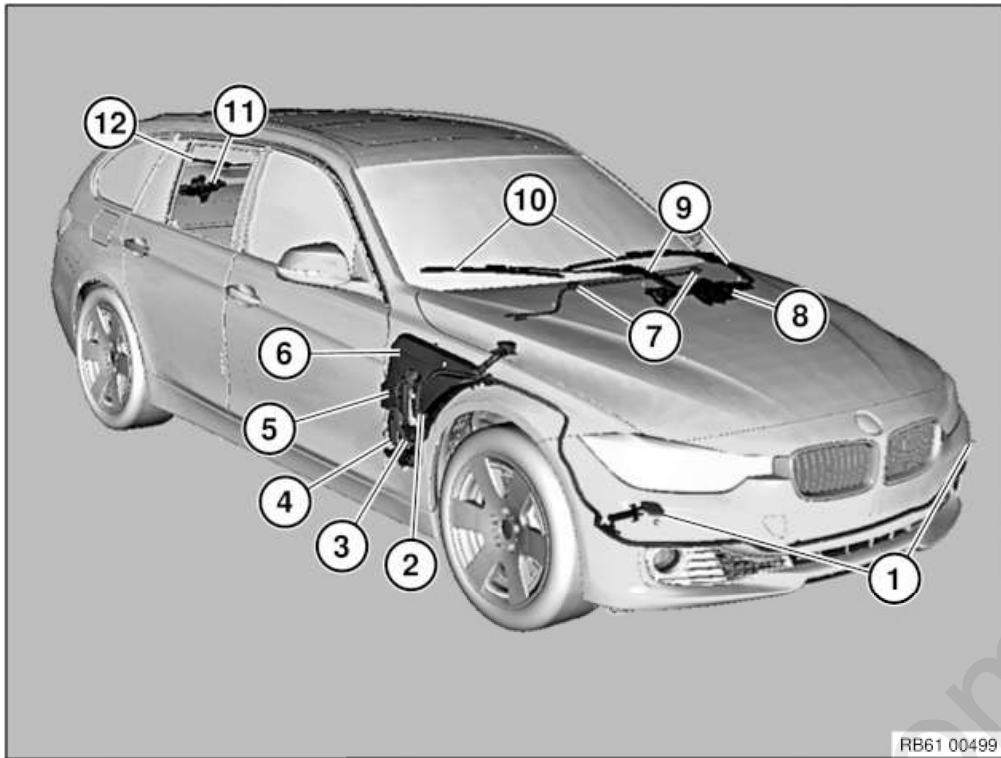


61 61 .. Overview of windscreen wiper and cleaning system



- | | |
|--|---|
| 1 High-pressure nozzle for headlight cleaning system | 7 Washer jet for window washer system |
| 2 Washer pump for headlight cleaning system | 8 Windscreen wiper console |
| 3 Rear washer pump (only F31) | 9 Windscreen wiper arms |
| 4 Windscreen washer pump | 10 Windscreen wiper blades |
| 5 Washer fluid level switch (integrated in washer fluid reservoir) | 11 Rear wiper motor (F31 only) |
| 6 Washer fluid reservoir | 12 Rear window wiper arm and rear window wiper blade (only F31) |



61 67 100 Removing and installing/replacing high-pressure nozzle of headlight cleaning system on left (or right)



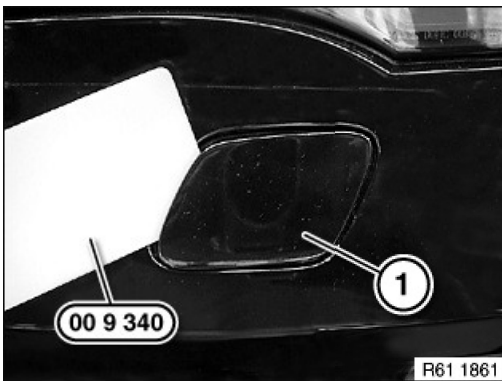
Special tools required:

- 00 9 340



Necessary preliminary tasks:

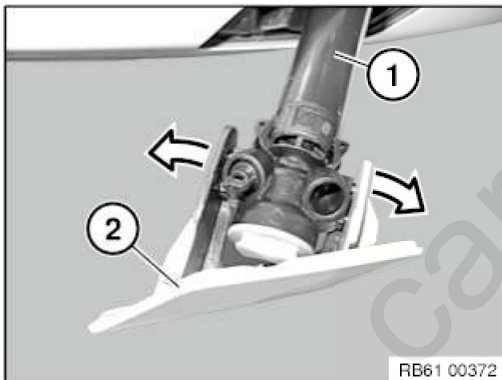
- Remove front wheel arch cover



Note:

Work shown on the F30 by way of example, deviations in detail are possible in other models.

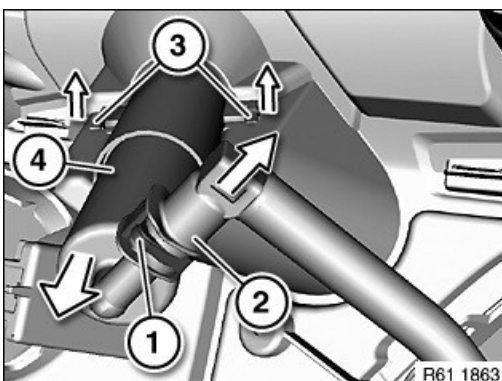
Use special tool 00 9 340 to lift the cover (1).



Slowly pull out high-pressure nozzle of headlight washer system (1) at cover (2).

Unclip cover (2) in direction of arrow and remove.

Allow high-pressure nozzle of headlight washer system (1) to slide back slowly.



Unlock safety coupling (1) of high-pressure line (2) and detach high-pressure line (2) in direction of arrow.

Lift retaining lugs (3) in direction of arrow and feed high-pressure nozzle (4) towards rear out of bumper panel.

Installation note:

Keep hose connection for high-pressure nozzle (4) and high-pressure line (2) clean and free from grease.

Make sure high-pressure line (2) is correctly engaged on high-pressure nozzle (4).

Make sure high-pressure nozzle (4) is correctly engaged on front bumper panel.

Carry out a function check before fitting bumper panel.

If necessary, top up washer fluid.



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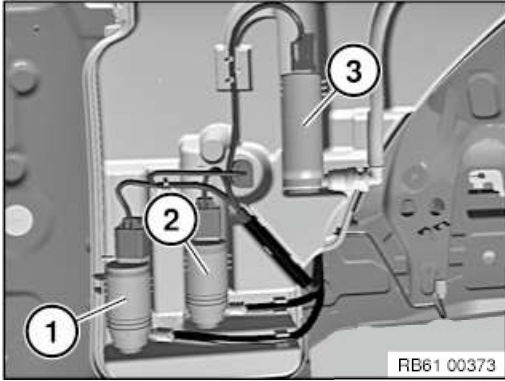


61 67 010 Removing and installing/replacing washer pump for headlight cleaning system



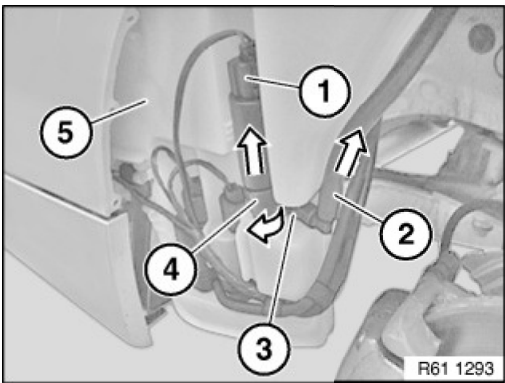
Necessary preliminary tasks:

- Detach washer fluid reservoir and pull forwards



Overview of washer pumps:

- (1) Windscreen washer pump of window washer system.
- (2) Windscreen washer pump of window washer system (F20, F21, F31 only).
- (3) Washer pump for headlight cleaning system.



Note:

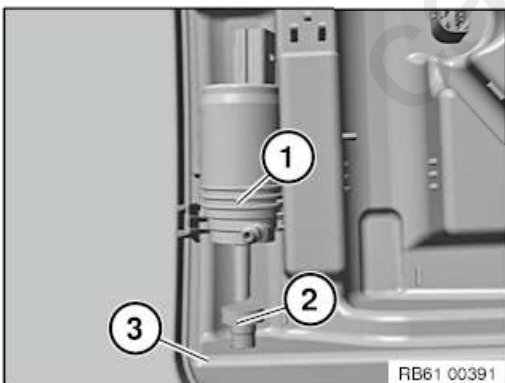
Graphic shows by way of example the washer pump for the headlight cleaning system!

Catch any escaping washer fluid if necessary.

Unfasten plug connection (1) and disconnect.

Unlock latch (3) and detach hose pipe (2) from washer pump (4).

Turn washer pump (4) if necessary and pull out of washer fluid reservoir (5).



Note:

Graphic shows an example of the strainer for windscreen washer pump.

Remove and replace strainer (2) of windscreen washer pump (1) or washer fluid reservoir (3).



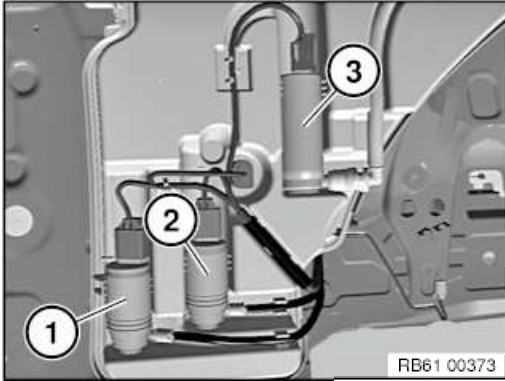
Installation note:

- Coat sealing ring of washer pump with lubricant
- Lay hose pipe of washer pump without kinks
- Topping up washer fluid

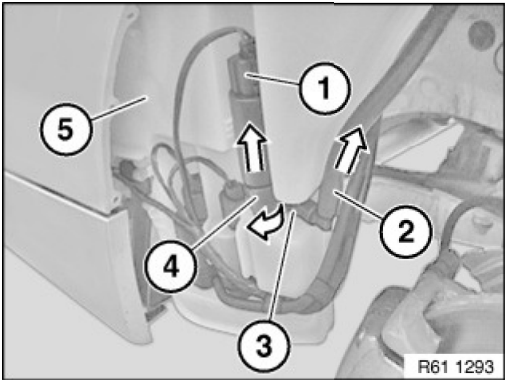


**Necessary preliminary tasks:**

- Detach washer fluid reservoir and pull forwards

Overview of washer pumps:

- (1) Windscreen washer pump of window washer system.
- (2) Windscreen washer pump of window washer system (F20, F21, F31 only).
- (3) Washer pump for headlight cleaning system.

*Note:*

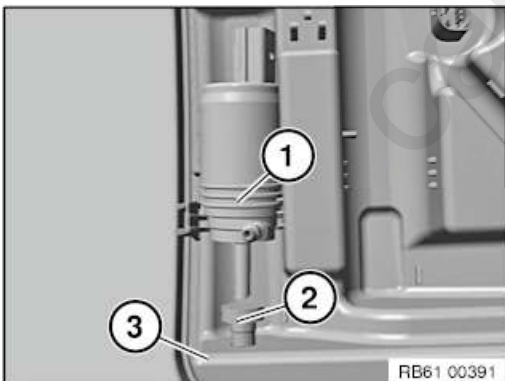
Graphic shows by way of example the washer pump for the headlight cleaning system!

Catch any escaping washer fluid if necessary.

Unfasten plug connection (1) and disconnect.

Unlock latch (3) and detach hose pipe (2) from washer pump (4).

Turn washer pump (4) if necessary and pull out of washer fluid reservoir (5).

*Note:*

Graphic shows an example of the strainer for windscreen washer pump.

Remove and replace strainer (2) of windscreen washer pump (1) or washer fluid reservoir (3).

*Installation note:*

- Coat sealing ring of washer pump with lubricant
- Lay hose pipe of washer pump without kinks
- Topping up washer fluid





Operation is described in:

Remove windscreen washer pump.

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