

34 52 121**Removing and installing/replacing
integrated chassis management control
unit (complete procedure)****Special tools required:**

- [00 9 327](#)
- [00 9 340](#)
- [00 9 317](#)

**Important!**

Read and comply with notes on [protection against electrostatic damage](#) (ESD protection).

**Important!**

Read and comply with notes on [handling wiring harnesses](#) and cables.

Warning!

The sensor system for triggering the airbag is installed in the ICM control unit!



The battery must be disconnected before removing the ICM control unit (ICM control unit de-energised)!

There is a risk of the airbag being triggered inadvertently if this requirement is disregarded!

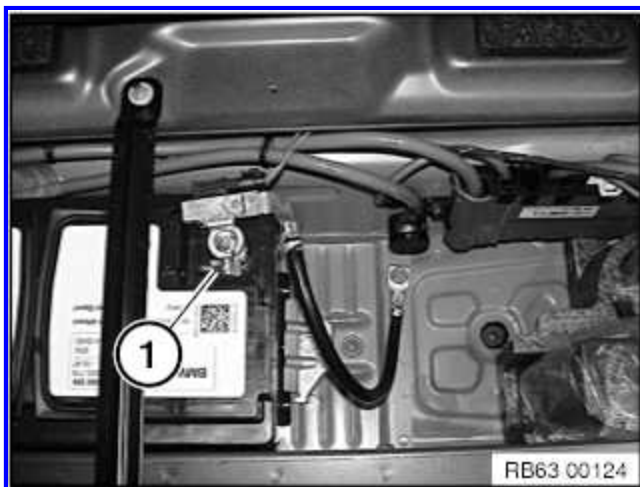


Warning!

Observe [safety instructions](#) for handling vehicle battery.

Follow instructions [for disconnecting and connecting battery!](#)

Observe notes on [voltage supply](#) / on intelligent battery sensor (IBS).



Lift luggage compartment floor.

Loosen nut (1).

Important!

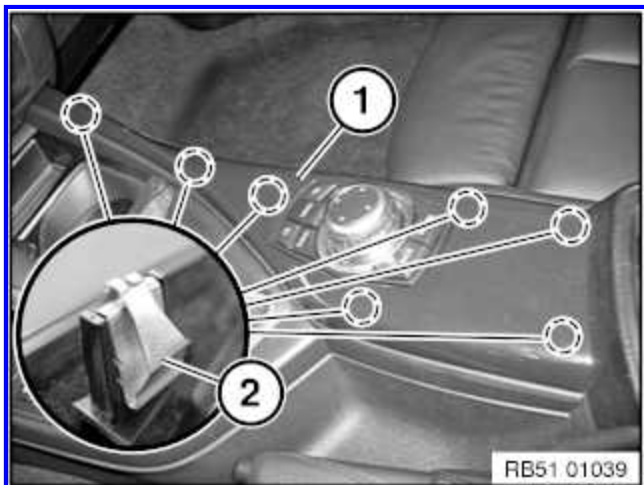
Do not under any circumstances use force to pull off negative terminal.

Detach battery negative lead with IBS towards top, lay to one side and secure.

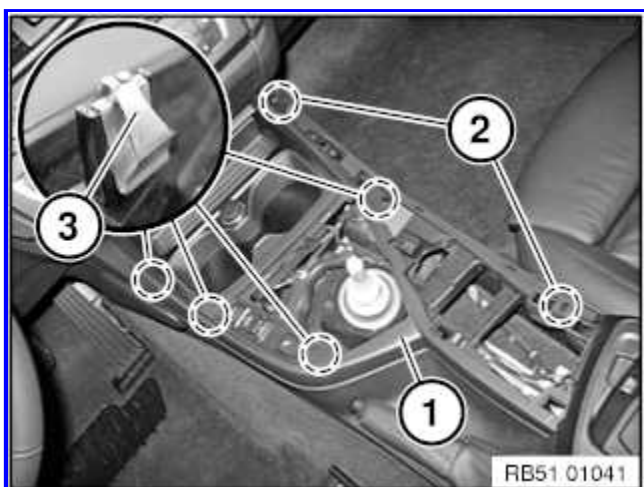
Loosen cover (1) with special tool [00 9 327](#) from clamps (2).

If necessary, unlock associated plug connections and disconnect.

Feed out cover (2) to the top/rear.



Partially fit special tool [00 9 340](#) as pictured.
Lift cover (1) all around and remove upwards.

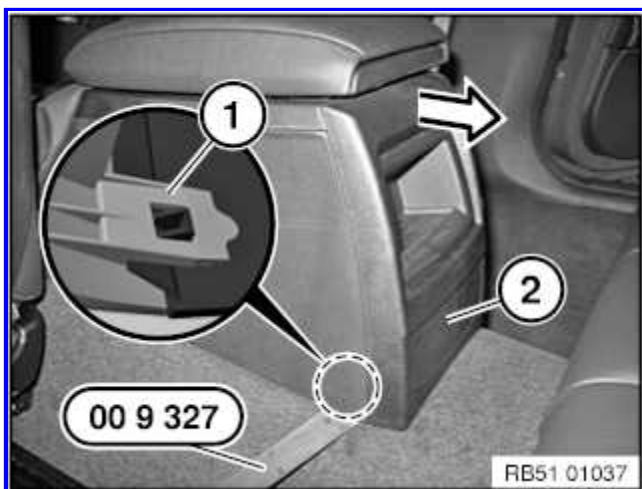
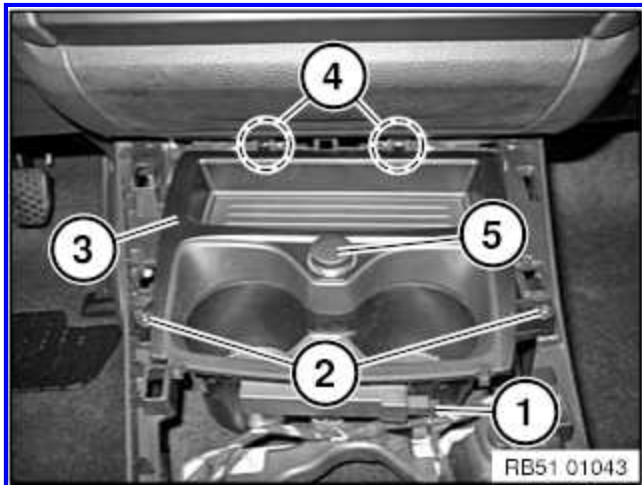


Release cover (1) at latch mechanisms (2) and clamps (3).
Slightly raise the cover (1) and disconnect associated plug connection.
Feed out cover (1) toward the top / rear.

Unfasten plug connection (1) and disconnect.

Unfasten screws (2).

Feed storage compartment (3) out of guides (4) and disconnect the plug connection from charging socket (5).



Loosen the latch mechanisms (1) left/right from the bottom with special tool [00 9 327](#).

Unclip cover (2) towards rear.

If necessary, unlock associated plug connections and disconnect.

Remove cover (2).



Warning!

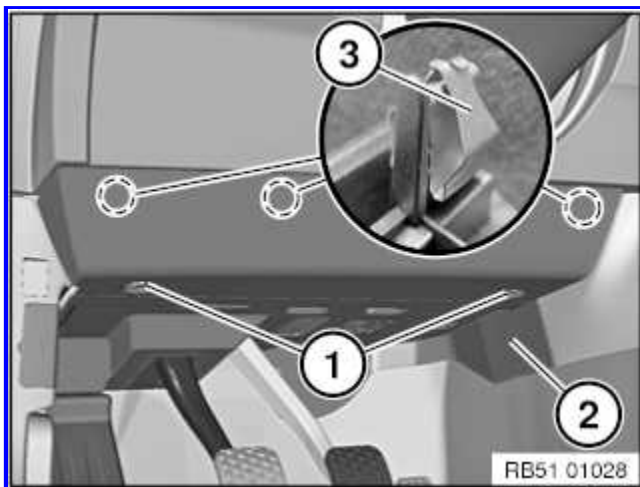
[Read and comply with](#) safety regulations for handling airbag modules and pyrotechnical belt tensioners.

Important!

Operations on pyrotechnical devices may only be carried out by authorised experts.

Improper, unauthorised operations may result in serious dangers.

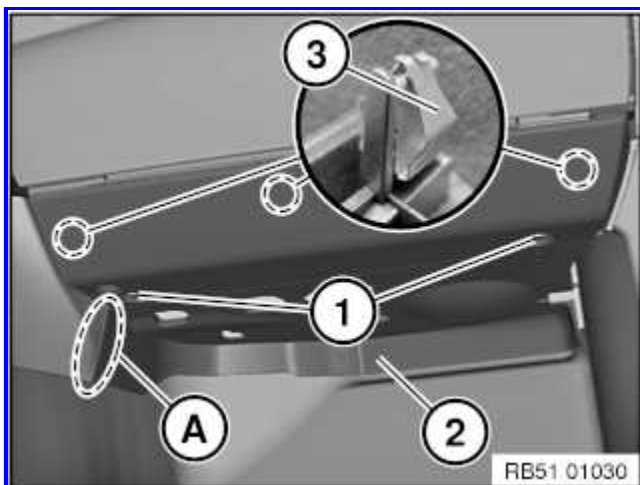
Unauthorised persons are strictly prohibited from performing any operations on this system.



Release screw connection (1).

Release trim panel for pedal mechanism (2) at clamps (3).

Slightly lower trim panel for pedal mechanism (2) and disconnect plug connections behind.



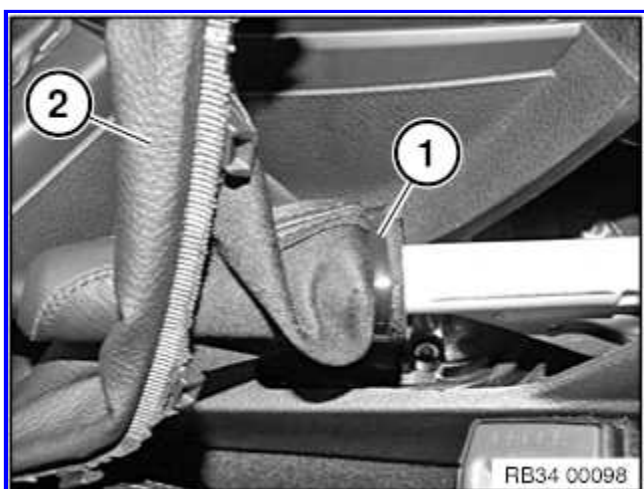
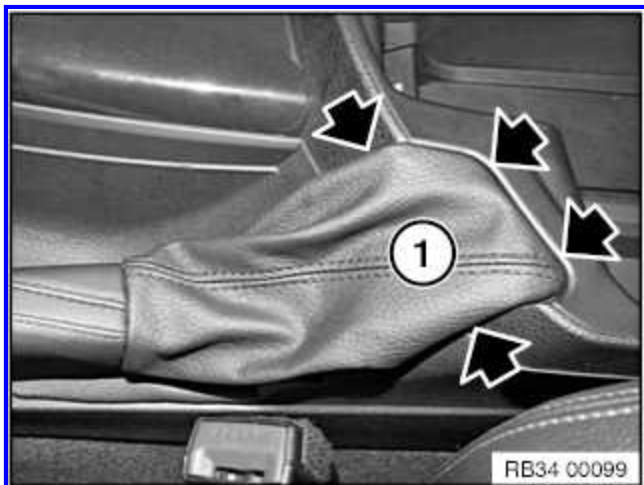
Release screw connection (1).

Release passenger side trim panel (2) at clamps (3).

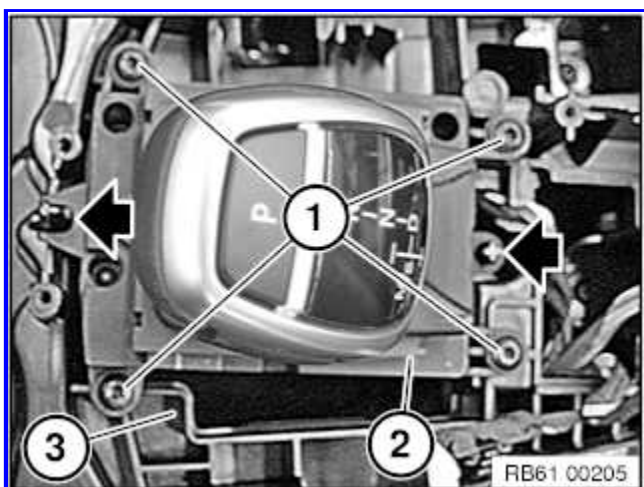
Feed out passenger side trim panel (2) in area (A) towards bottom.

Slightly lower passenger side trim panel (2) and disconnect plug connection behind.

Unclip gaiter (1), top, with special tool [00 9 317](#), if applicable.

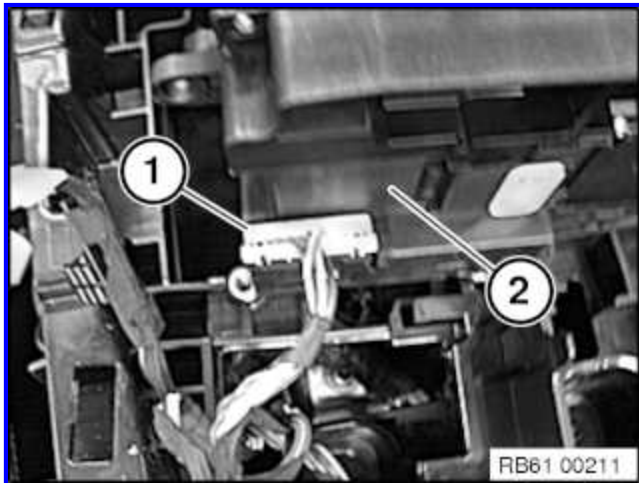


Pull gaiter (2) over parking brake lever.
Cut cable ties (1) and remove gaiter.



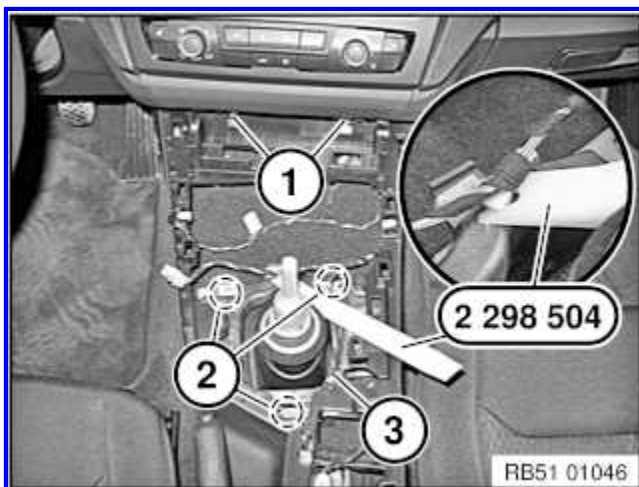
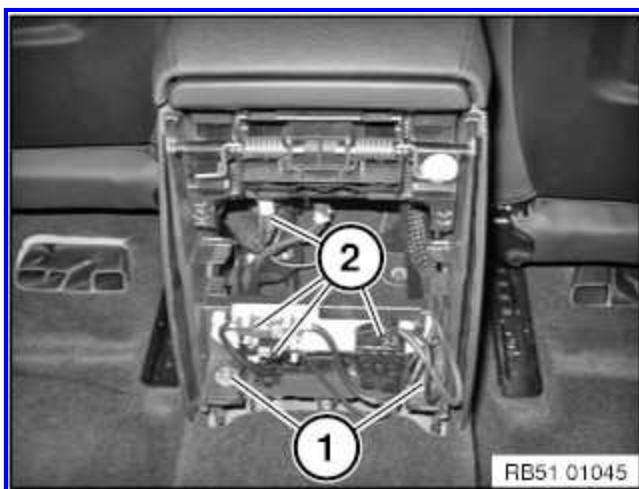
Release screws (1).

Lift gear selector switch (2), then unlock plug connection (1) at gear selector switch (2) and disconnect.



Unscrew nuts (1).

Disconnect plug connections (2), depending on version.



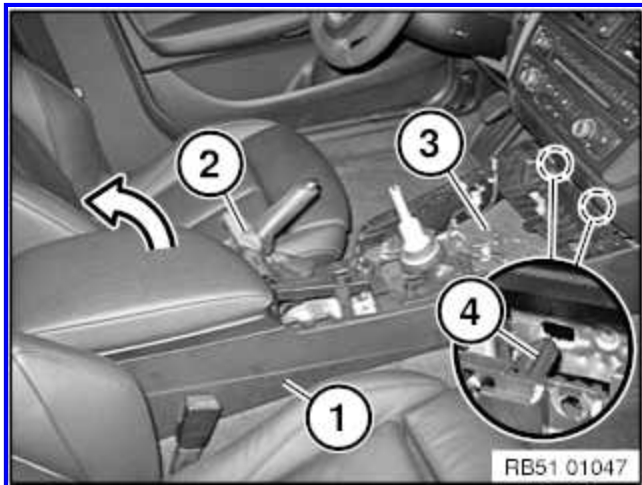
Release screws (1 and 2).

Detach wiring harness (3) from central console mount.

Raise the centre console (1) rear and feed out gaiter (2).

Remove centre console (1) to the rear/top.

If applicable, note other plug connections and cable clips.



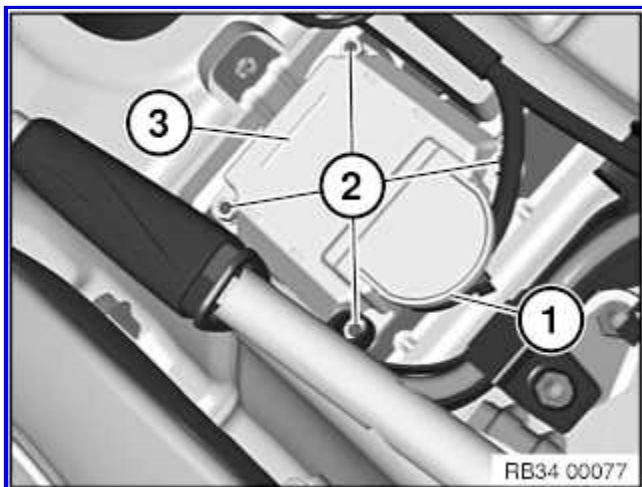
Warning!

Make sure that the negative battery lead is disconnected!

There is a risk of the airbag being triggered inadvertently!

Disconnect plug connection (1).

Release nuts (2) and remove ICM control unit (3).



Installation:

Important!

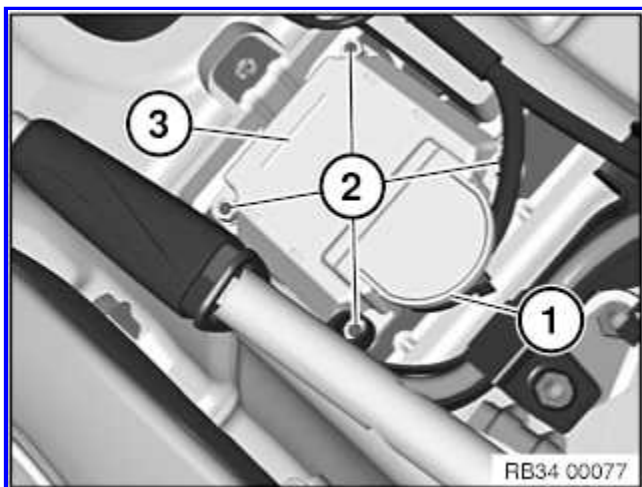
Do not trap any electrical wires when installing ICM control unit!

Insert integrated chassis management control unit.

Renew and tighten self-locking nuts.

Tightening torque [34 51 2AZ](#).

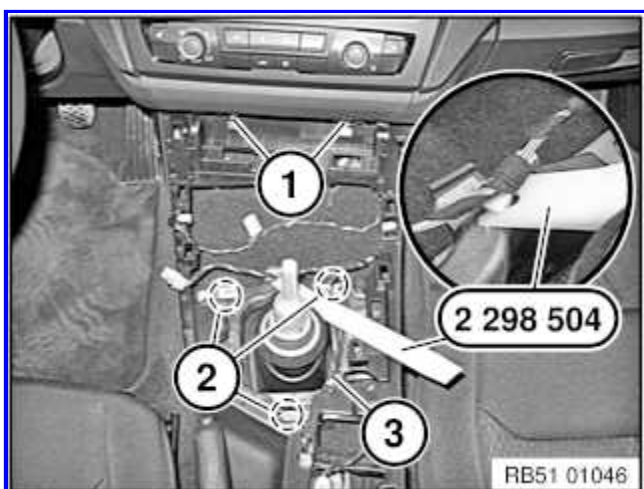
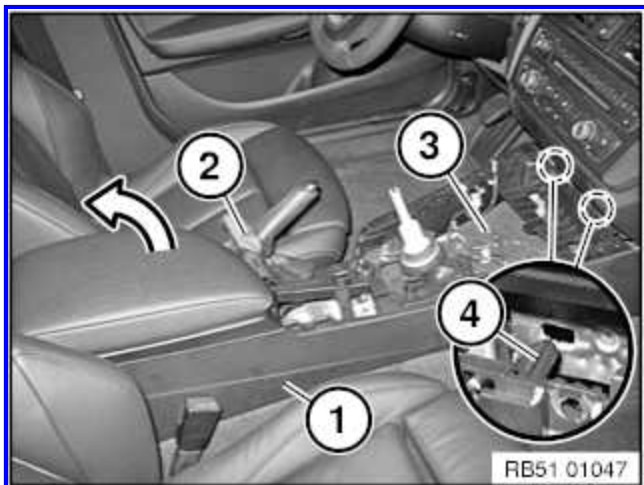
Connect plug connection (1).



Position centre console (1) over gearshift lever and gaiter (2) from rear/top.

Feed centre console (1) correctly into dashboard including guides (4).

Make sure wiring harness (3) is in correct position.



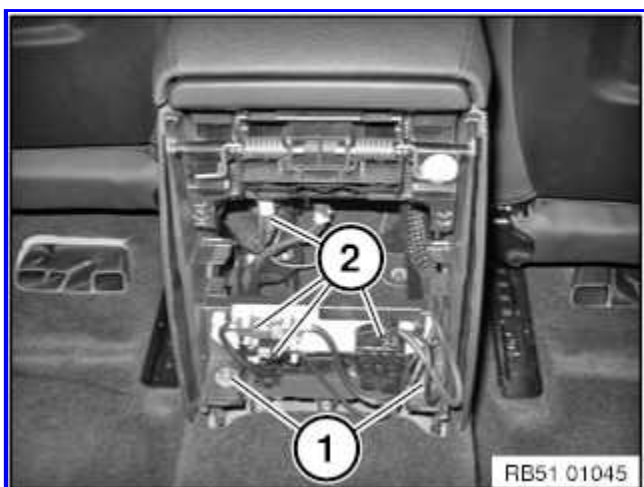
Tighten down screws (1).

Tightening torque [51 16 4AZ](#).

Tighten down screws (2).

Tightening torque [51 16 3AZ](#).

Secure wiring harness (3) to centre console mounting.

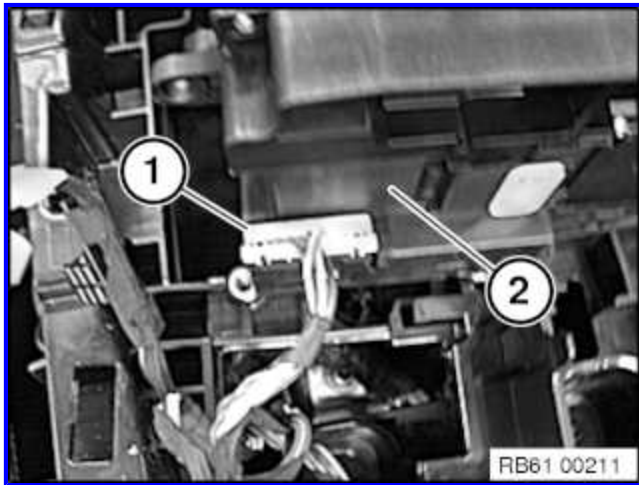


Tighten down nuts (1).

Tightening torque [51 16 3AZ](#).

Connect plug connections (2), depending on version.

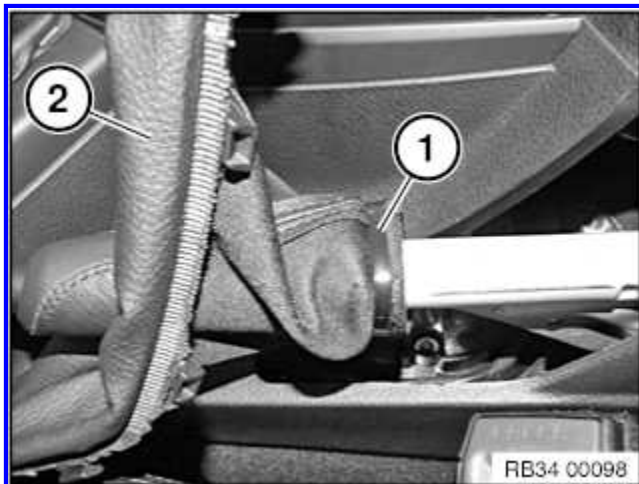
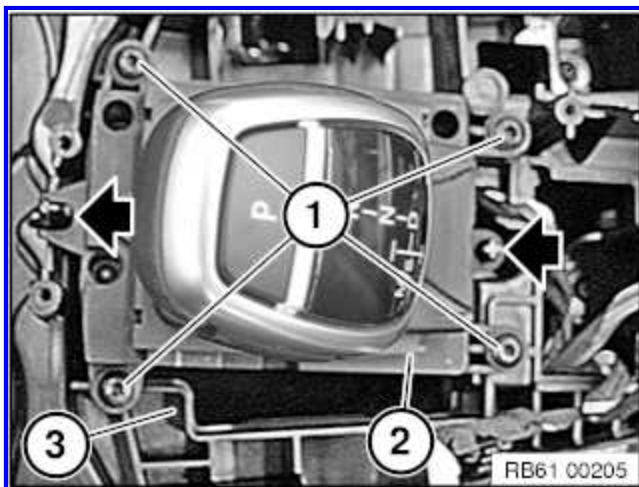
Connect plug connection (1) to gear selector switch (2).



Insert gear selector switch (2) correctly in front and rear fixation of centre console support (3).

Tighten down screws (1).

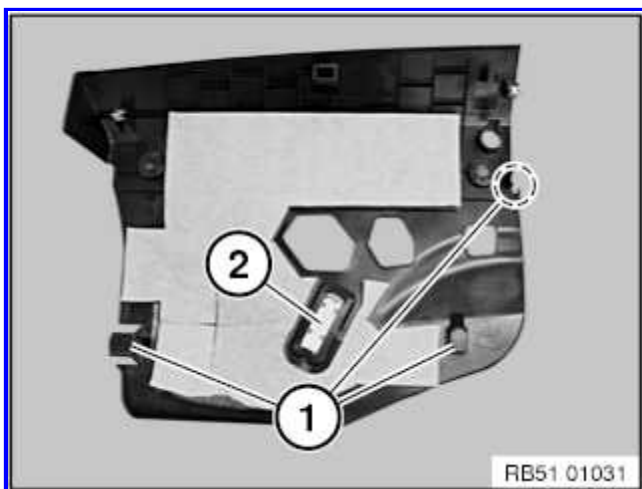
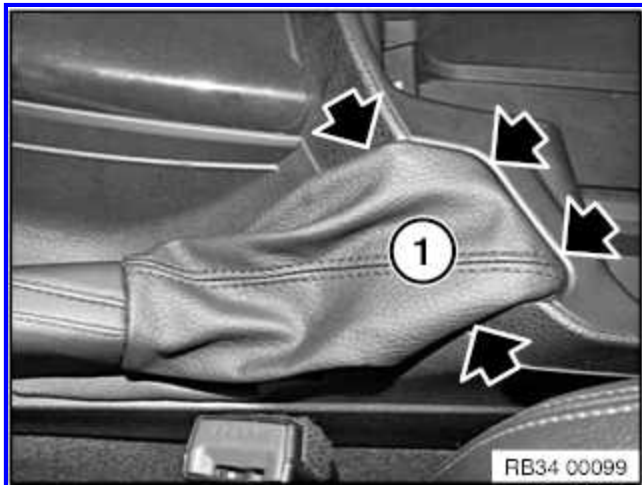
Tightening torque [61 31 1AZ](#).



Pull gaiter (2) over parking brake lever and secure with cable strap (1).

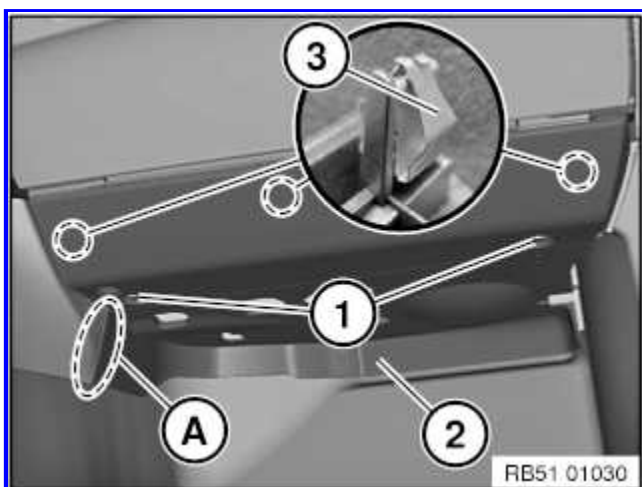
Eye of cable strap must point towards bottom.

First insert the gaiter (1) on the bottom and then clip in on the top.



Guides (1) must not be damaged or missing.

Insert guides (1) correctly into the corresponding holders in the vehicle.



Clamps (3) must not be damaged.

Connect plug connection to trim panel (2).

Feed in trim panel (2) in area (A) correctly behind the centre console.

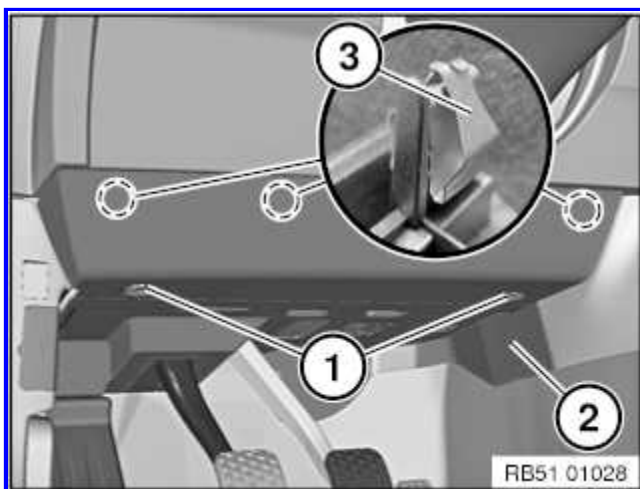
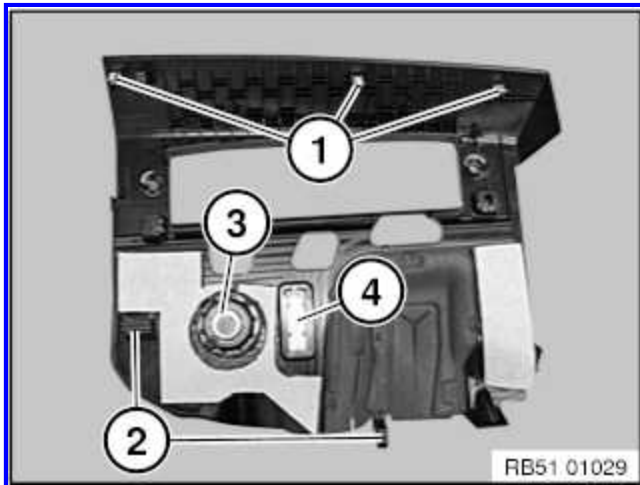
Clip in trim panel (2) with clamps (3).

Tighten screw connection (1).

Tightening torque [51 45 9AZ](#).

Clamps (1) and guides (2) must not be damaged.

Feed guides (2) correctly into the corresponding holder in the vehicle.

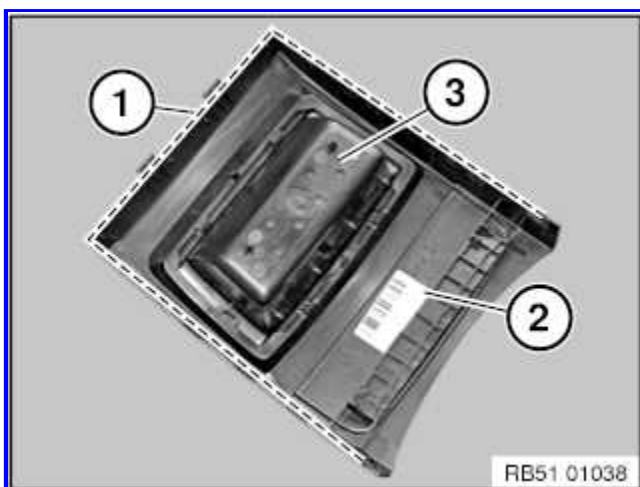


Slightly insert trim panel (2) and connect related plug connections.

Clip in trim panel (2) with clamps (3).

Tighten screw connection (1).

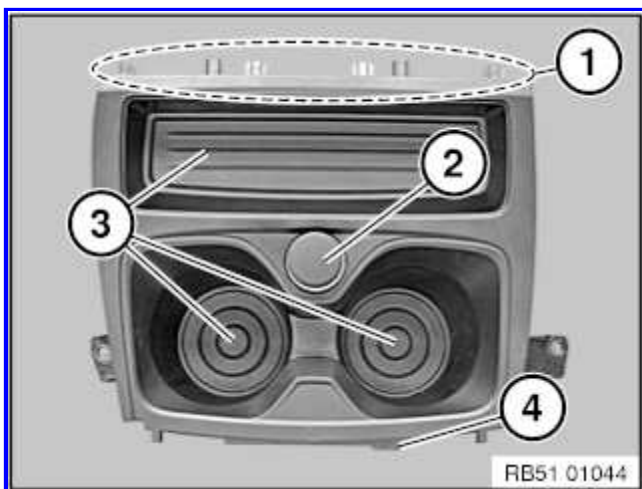
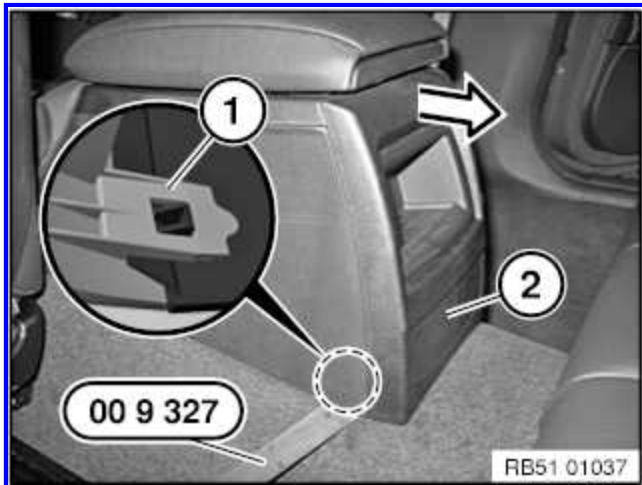
Tightening torque [51 45 8AZ](#).



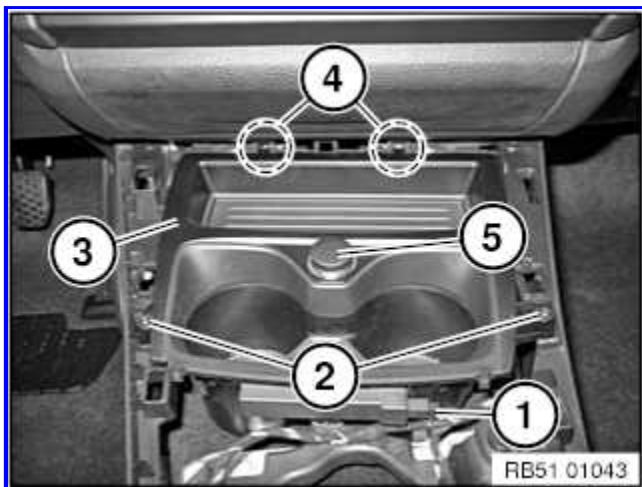
Latch mechanisms (1) on cover (2) must not be damaged or missing.

Position cover (2) from rear and if required connect related plug connections.

Clip in cover (2).



Guides (1) must not be damaged.



Connect plug connection to power socket (5).

Feed in storage compartment (3) and check guides (4) are correctly fitted.

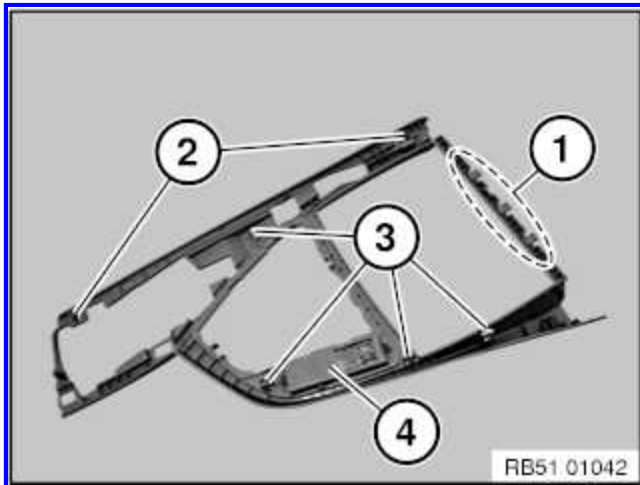
Connect plug connection (1).

Tighten down screws (2).

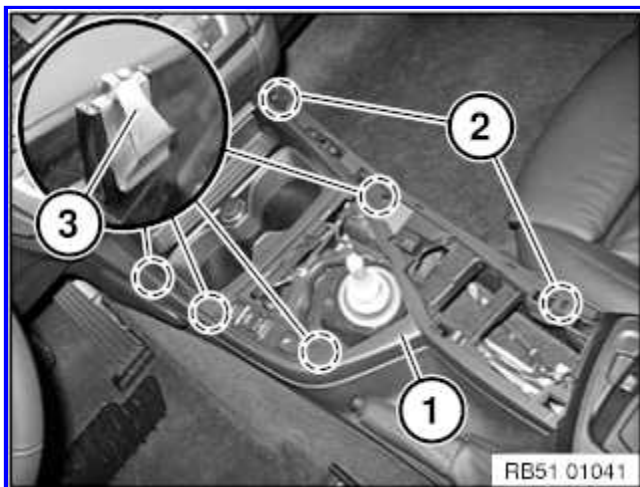
Note:

The following parts must not be damaged or missing:

- Guides (1)
- Latch mechanisms (2)

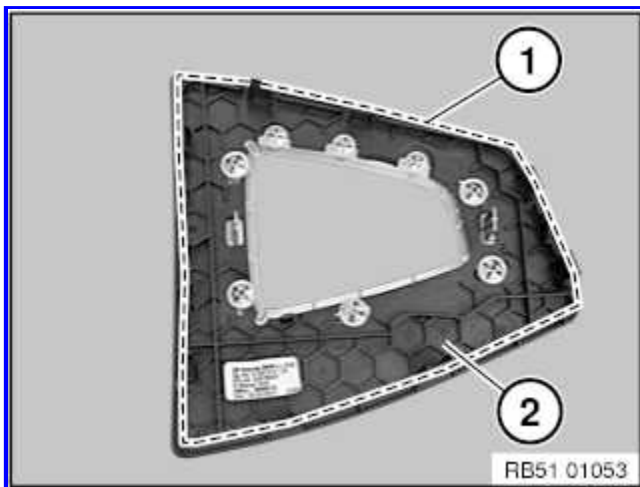


- Clamps (3)



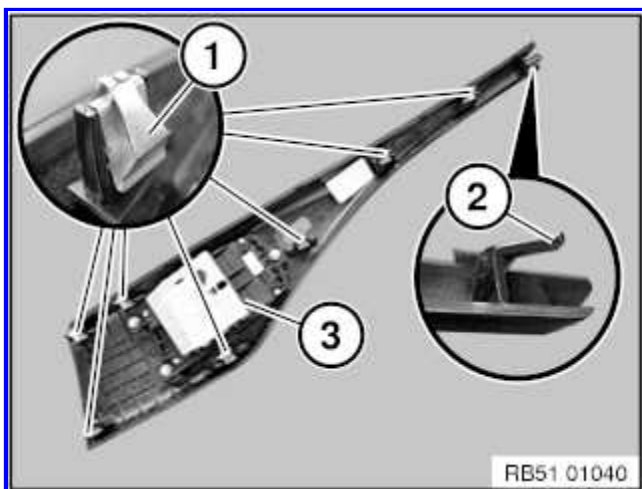
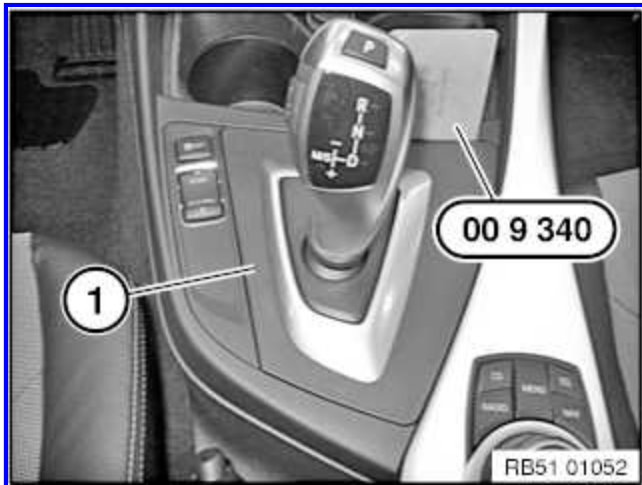
Feed in cover (1) from top/rear and connect related plug connection.

Clip in cover (1) at latch mechanisms (2) and clamps (3).



Latch mechanisms (1) on cover (2) must not be damaged or missing.

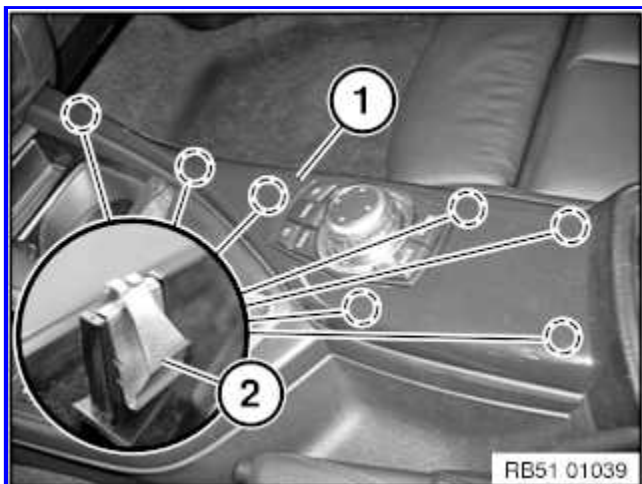
Clip in cover (1) from top.



Note:

Clamps (1) and guide (2) must not be damaged or missing.

Feed guide (2) correctly into centre console.



Feed in cover (2) from top/rear.

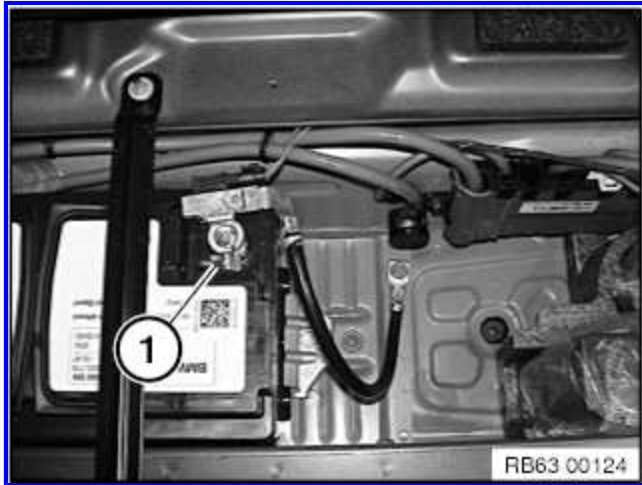
If necessary, connect related plug connections.

Clip in cover (1) with clamps (2).

Connect battery earth lead with IBS to battery.

Tighten nut (1).

Tightening torque [61 21 1AZ](#).



Connect vehicle to BMW diagnosis system.

Select and carry out start-up of ICM control unit under Service functions.



Replacement:

After completing repairs, use BMW Diagnosis and Information System to

- Switch the ignition on.
- carry out programming/encoding
- Connect BMW diagnosis system
- Carry out ride height adjustment (menu item: "Service function")

Important!

Following ride height adjustment, for vehicles with:

- Run Flat Indicator:
Initialise [Run Flat Indicator](#)
- Tyre Pressure Monitor:
[Resetting Tyre Pressure Monitor](#)

- Select and carry out start-up of integrated chassis management control unit under Service functions