

**Special tools required:**

- [00 2 080](#)

**Important!**

Use only the approved [transmission oil](#) in the transfer box.

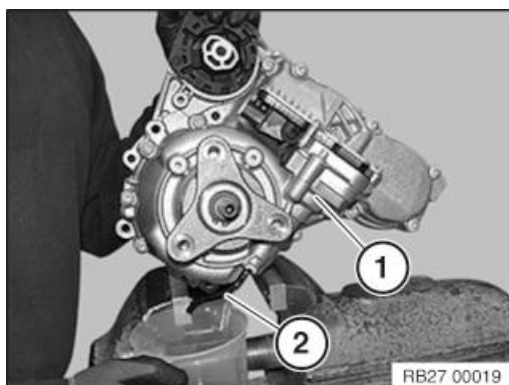
Failure to comply with this requirement will result in serious damage to the transfer box!

Note:

Only change oil when transfer box is at normal operating temperature.

**Necessary preliminary tasks:**

- Remove [transfer box](#).



Place oil collecting apparatus underneath.

Drain and dispose of the transmission oil using the transmission breather (2).

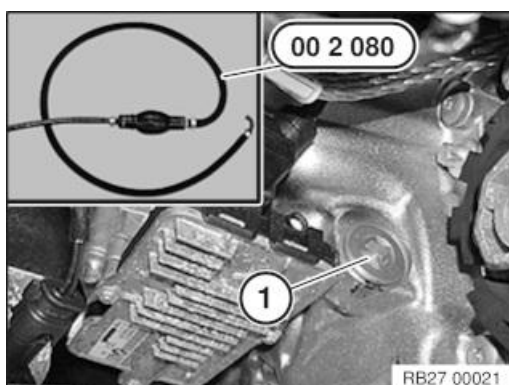
- Observe country-specific waste disposal regulations

Note:

Do not drain transmission oil through the oil filler plug because complete emptying cannot be guaranteed using the oil filler plug!



Install [transfer box](#).



Undo oil filler plug (1).

Tightening torque [27 10 2AZ](#).

Use special tool [00 2 080](#) to top the transmission oil up to the lower edge of the filler screw opening.

Installation note:

Renew oil filler plug with O-ring.

**Danger of poisoning!**

Ingesting oil or absorbing through the skin may cause poisoning!

Possible symptoms are:

- Headaches
- Dizziness
- Stomach aches
- Vomiting
- Diarrhoea
- Cramps/fits
- Unconsciousness

**Protective measures/rules of conduct:**

- Pour oil only into appropriately marked containers
- Do not pour oil into drinking vessels (drinks bottles, glasses, cups or mugs)
- Observe country-specific safety regulations

**First aid measures:**

- Do not induce vomiting.

If the person affected is still conscious, he/she must rinse out their mouth with water, drink plenty of water and consult a doctor immediately.

If the person affected is unconscious, do not administer anything by mouth, place the person in the recovery position and seek immediate medical attention.

**Important!**

Use only the approved [gearbox oil](#) in the transfer box.

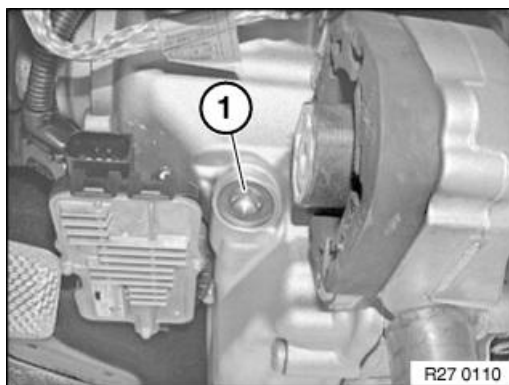
Failure to comply with this requirement will result in serious damage to the transfer box!

Note:

Only change oil when transfer box is at normal operating temperature.

**Necessary preliminary tasks:**

- Remove [underbody protection](#)
- Remove [exhaust system](#)
- Remove heat shield

Check transfer box oil level, correct:

Undo oil filler plug (1).

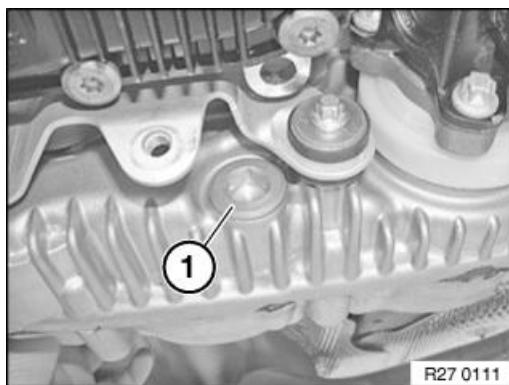
Check transfer case oil level.

If necessary, pour in transmission oil up to lower edge of opening for oil filler plug (1).

Installation note:

Renew oil filler plug with O-ring.

Tightening torque [27 00 11AZ](#).

Changing transfer box oil:

Place oil collecting apparatus underneath.

Remove oil drain plug (1).

Drain and dispose of transmission oil.

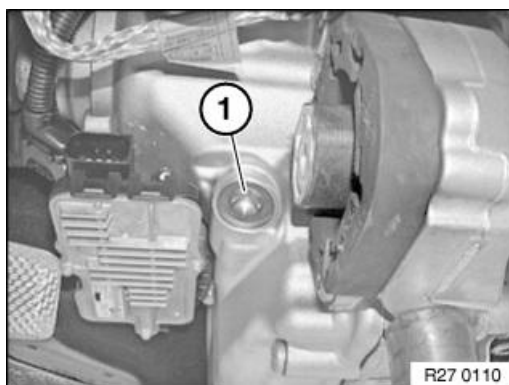
Note: Observe country-specific waste disposal regulations

Installation note:

Renew oil drain plug with O-ring.

Screw in oil drain plug (1) and tighten.

Tightening torque [27 00 11AZ](#).



Undo oil filler plug (1).

Pour in transmission oil up to lower edge of opening for oil filler plug (1).

Tightening torque [27 00 11AZ](#).

Installation note:

Renew oil filler plug with O-ring.

00 Risk of injury if oil comes into contact with eyes and skin



Danger of injury!

Contact with eyes or skin may result in injury!

Possible symptoms are:

- Impaired sight
- Irritation of the eyes
- Reddening of the skin
- Rough and cracked skin



Protective measures/rules of conduct:

- Wear protective goggles
- Wear oil-resistant protective gloves
- Observe country-specific safety regulations



First aid measures:

- Eye contact: Rinse eyes immediately with plenty of water for at least 15 minutes; if available, use an eye-rinsing bottle. If irritation of the eyes persists, consult a doctor.
- Skin contact: Wash off with soap and water immediately. If irritation persists, consult a doctor.

Note: Do not use solvents/thinners.

00 Safety instructions for handling oil



Warning!

[Danger of poisoning](#) if oil is ingested/absorbed through the skin!

[Risk of injury](#) if oil comes into contact with eyes and skin!



Recycling:

Observe country-specific waste-disposal regulations.



Measures if oil is unintentionally released:

- Personal precautionary measures: Danger of slipping! Keep non-involved persons away from the work area. Wear personal protective clothing/equipment.
- Environmental protection measures: Prevent oil from draining into drain channels, sewerage systems, pits, cellars, water and the ground.
- Limiting spread: Use oil blocks to prevent the surface spread of oil.
- Cleaning procedure: Bind and dispose of escaped oil with nonflammable absorbents.

Note: Do not flush oil away with water or aqueous cleaning agents.

**Important!**

Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

**Recycling:**

Catch and dispose of escaping transmission oil. Observe country-specific waste disposal regulations

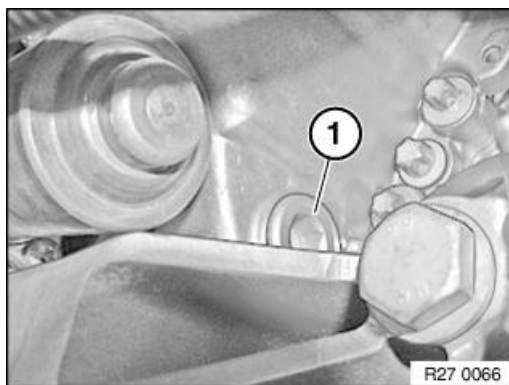
**Necessary preliminary tasks:**

- Drain [gear oil](#) at oil drain plug.
Tightening torque [27 00 11AZ](#).
- Remove [transfer box](#).



Modify following parts:

- Covers and protective caps.
- Drive shaft transportation retainer.
- Vent hose of transfer box.
- If required, replace [rubber mount](#) for transmission mounting.

**Important!**

After completing repair work, check transmission oil level and top up if necessary.

Undo oil filler plug (1).

Check oil level.

If necessary, top up transmission oil up to lower edge of opening for oil filler plug (1).

Installation note:

Renew oil filler plug with O-ring.

Tightening torque [27 00 11AZ](#).

Use only approved [gearbox oil](#).

Failure to comply with this requirement will result in serious damage to the transfer box!

**Special tools required:**

- [22 1 044](#)
- [22 1 046](#)
- [33 4 460](#)

**Important!**

Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

**Recycling:**

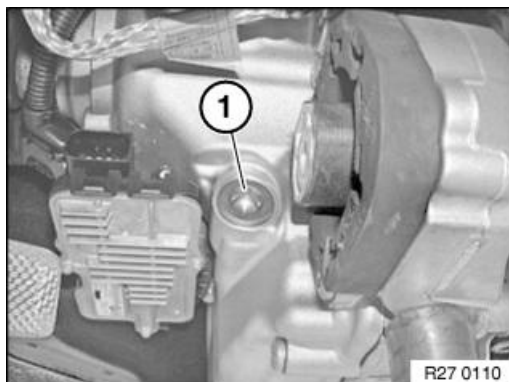
Catch and dispose of escaping transmission oil.
Observe country-specific waste disposal regulations

**Necessary preliminary tasks:**

- Drain [gear oil](#) at oil drain plug.
Tightening torque [27 10 2AZ](#).
- Remove [transfer box](#).

**Modify following parts:**

- Covers and protective caps
- Drive shaft transportation retainer
- Vent hose of transfer box
- Holder for exhaust system on transmission cross-member
- If required, replace [rubber mount](#) for transmission mounting

**Important!**

After completing work, check gear oil level and top up if necessary.

Undo oil filler plug (1).

Check oil level.

If necessary, top up transmission oil up to lower edge of opening for oil filler plug (1).

Installation note:

Renew oil filler plug with O-ring.

Tightening torque [27 10 2AZ](#).

Use only the approved [gearbox oil](#).

Failure to comply with this requirement will result in serious damage to the transfer box!



After replacement:

Service function repair [Carry out programming/encoding.](#)

**Special tools required:**

- [00 2 030](#)
- [23 4 050](#)

**Important!**

Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

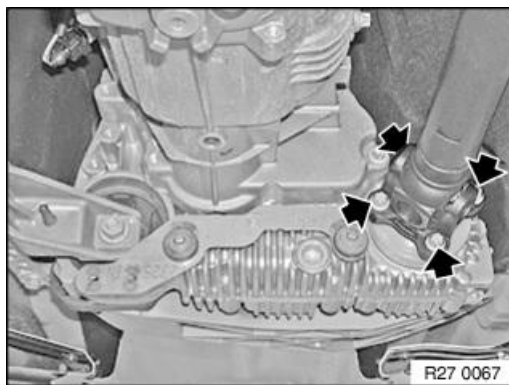
Important!

After completion of repair work, [check transmission oil level](#) and top up if necessary.

Failure to comply with this requirement will result in serious damage to the transfer box!

**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Remove [underbody protection](#)
- Remove complete [exhaust system](#)
- Remove heat shields
- Remove [propeller shaft](#)



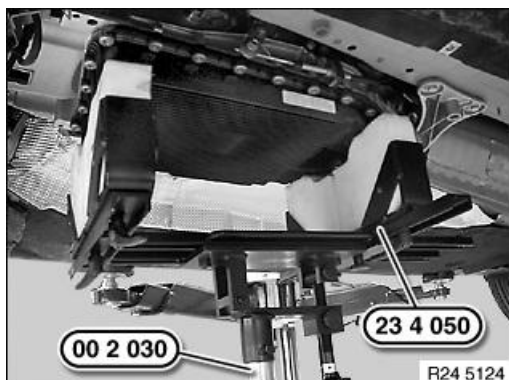
Release screws.

Tightening torque [26 11 9AZ](#).

Remove front propeller shaft at output flange of transfer box and tie to one side.

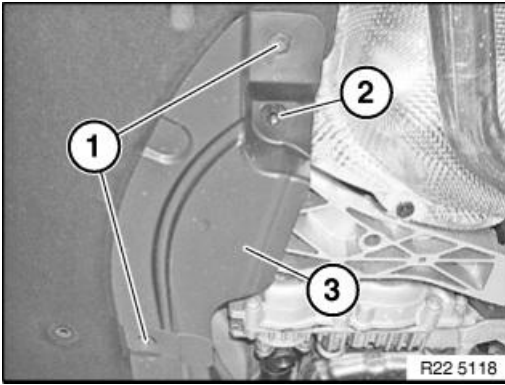
Installation note:

Replace screws.

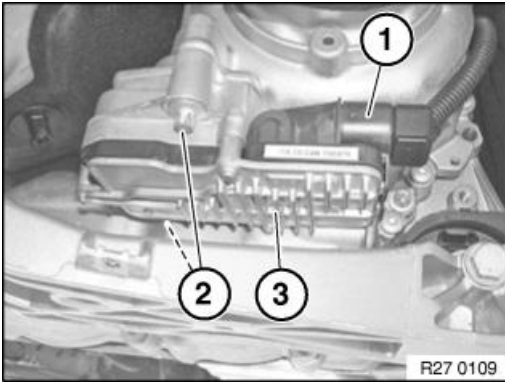


Note:

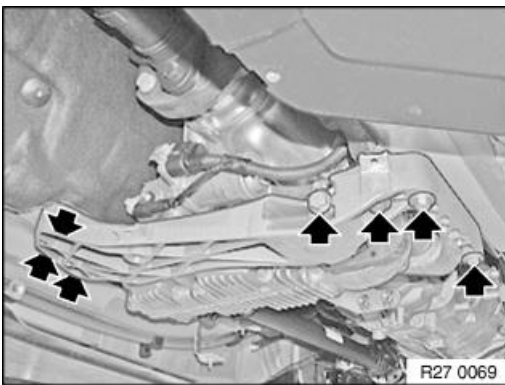
Support transmission with special tools [00 2 030](#) , [23 4 050](#).



Release screws (1) and nuts (2).
Remove trim (3).



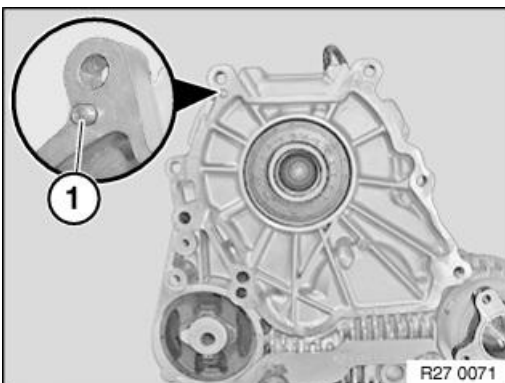
Unplug connector (1) from VTG control unit (linear force module) (3).



Release screws.
Remove transmission cross member.
Tightening torque [27 00 10AZ](#).



Release screw connection of transfer box.
Tightening torque [27 00 9AZ](#).
Remove transfer box.



Installation note:
Pay attention to dowel pin (1).
Grease dowel pin (1).
Apply a thin coat of grease to gearing.
Grease: WEICON ANTI-SEIZE.

**Special tools required:**

- [00 2 030](#)
- [23 4 050](#)

**Important!**

Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

Important!

After completion of repair work, [check transmission oil level](#) and top up if necessary.

Failure to comply with this requirement will result in serious damage to the transfer box!

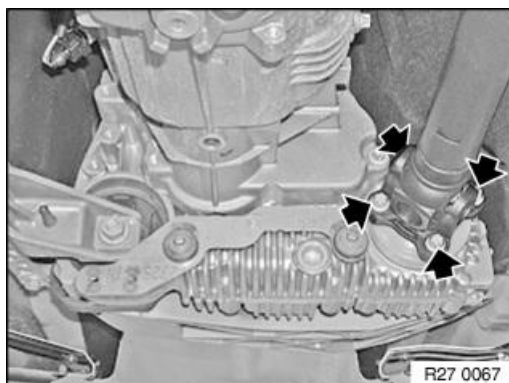
**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Remove [underbody protection](#)
- Remove complete [exhaust system](#)
- Remove heat shields
- Partially remove [propeller shaft](#).
 - Disconnect propeller shaft at transmission.
 - Release centre mount.
 - Tie up propeller shaft to underbody.

Note:

Bending the propeller shaft by an excessive angle can cause premature damage to the joint/propeller shaft!

- Support gearbox with jack when removing the transfer box.



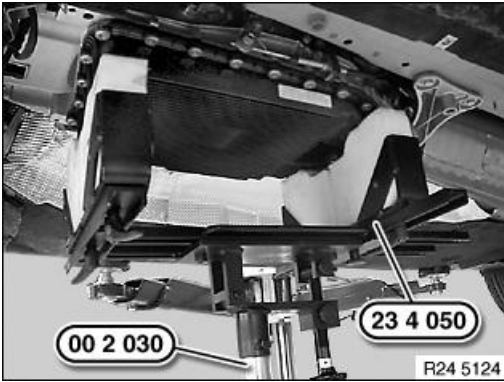
Release screws.

Tightening torque [26 11 9AZ](#).

Remove front propeller shaft at output flange of transfer box and tie to one side.

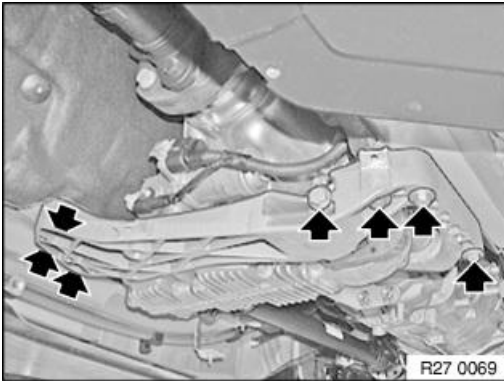
Installation note:

Replace screws.



Note:

Support transmission with special tools [00 2 030](#) , [23 4 050](#) .

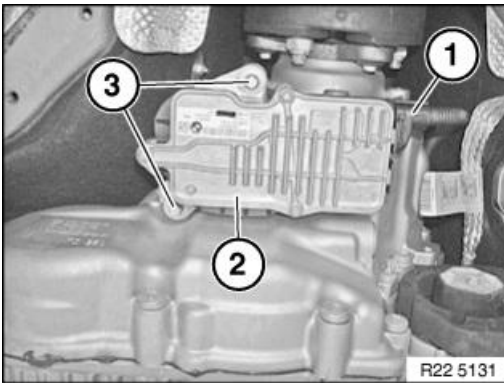


Release screws.

Remove transmission cross member.

Tightening torque [22 32 4AZ](#).

Tightening torque [22 32 5AZ](#).



Disconnect connector (1) from transfer box control unit (linear force module) (2).

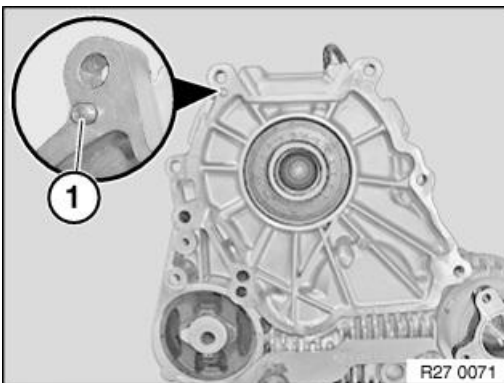


Slightly lower gearbox.

Release screw connection of transfer box.

Tightening torque [27 10 1AZ](#).

Remove transfer box.



Installation note:

Pay attention to dowel pin (1).

Grease dowel pin (1).

Apply a thin coat of grease to gearing.

Grease: WEICON ANTI-SEIZE.

**Important!**

Do not move vehicle with drive power once propeller shaft has been removed.

Replace output flange **only** together with a new radial shaft seal.

After completion of work, check [transmission oil level](#) .

Use only the approved [transmission fluid](#) .

Failure to comply with this requirement will result in serious damage to the transfer box!



Operation is identical to [Replacing radial shaft seal for front axle output](#) .

**Important!**

Do not move vehicle with drive power once propeller shaft has been removed.

Replace output flange **only** together with a new radial shaft seal.

After completion of work, check [gearbox oil level](#).

Use only the approved [gearbox oil](#).

Failure to comply with this requirement will result in serious damage to the transfer box!



Operation is identical to [Replacing radial shaft seal for front axle output](#).

**Important!**

After completing work, check [transmission oil level](#) and top up if necessary.

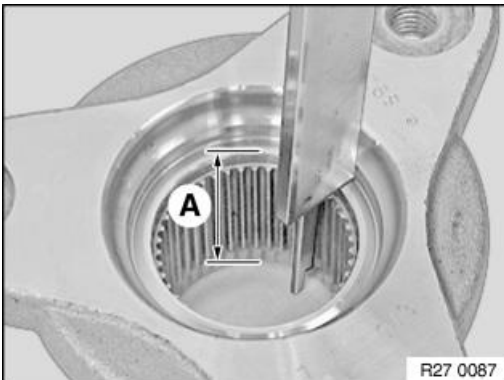
Use only the [approved transmission oil](#).

*Note:*

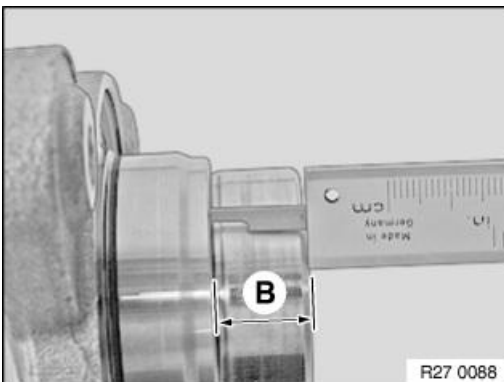
- Replace output flange **only** together with a new radial shaft seal.
- Procedure for removing output flange is identical to replacing [radial shaft seal](#).

Installation note:

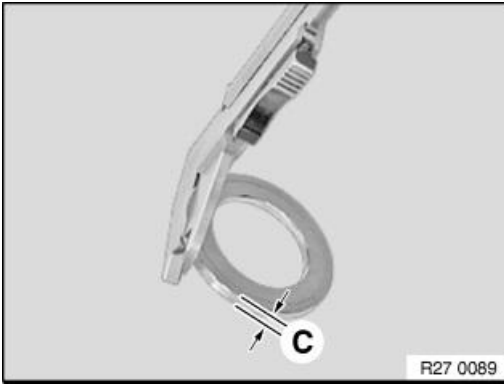
- Thickness of new shim must be determined before output flange is installed.



Determine and note down dimension A of output flange (old and new).



Determine and note down dimension B of output flange (old and new).



Determine old dimension C, thickness of shim.



Installation note:

Calculate thickness of new shim:

1. Add old dimension A of output flange (previous) and old dimension C of shim
Then subtract old dimension B from old result $A+C$
2. Subtract dimension B from dimension A of output flange (new)
3. Then subtract result of step 2 from result of step 1.

**Important!**

After completing work, check [transmission oil level](#) and top up if necessary.

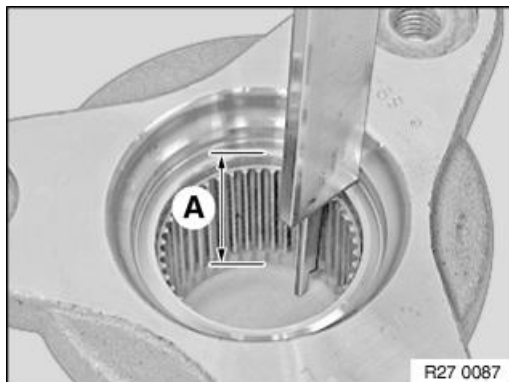
Use only [approved transmission oil](#) for this transfer box.

**Note:**

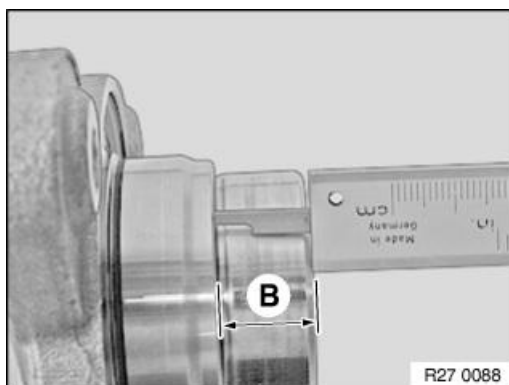
- Replace output flange **only** together with a new radial shaft seal.
- Operations for removing output flange are identical to replacing [radial shaft seal](#)

Installation note:

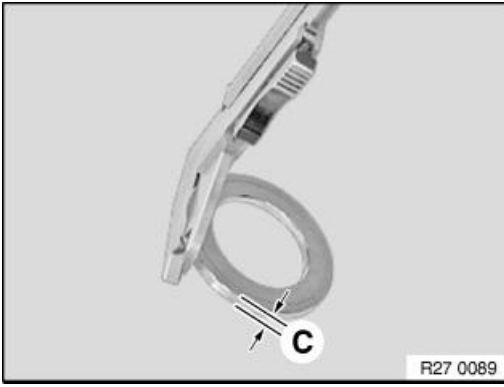
- Thickness of new shim must be determined before output flange is installed



Determine and note down dimension A of output flange (old and new).



Determine and note down dimension B of output flange (old and new).



Determine old dimension C, thickness of shim.



Installation note:

Calculate thickness of new shim:

1. Add old dimension A of output flange (previous) and old dimension C of shim
Then subtract old dimension B from old result $A+C$
2. Subtract dimension B from dimension A of output flange (new)
3. Then subtract result of step 2 from result of step 1.

**Special tools required:**

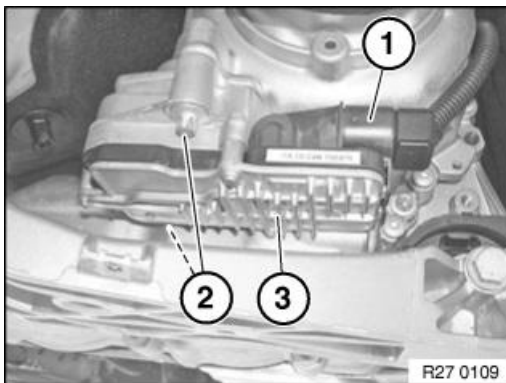
- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)

**Important!**

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

**Necessary preliminary tasks:**

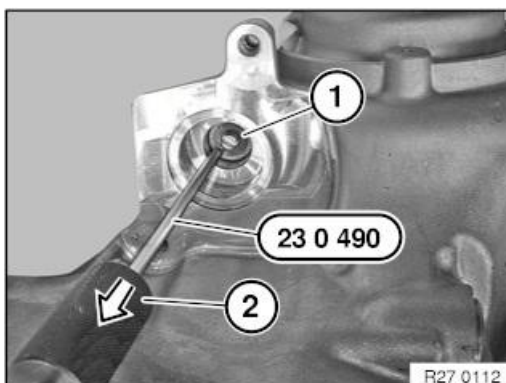
- Disconnect [battery earth lead](#)
- Remove [cross member](#).



Disconnect connector (1).

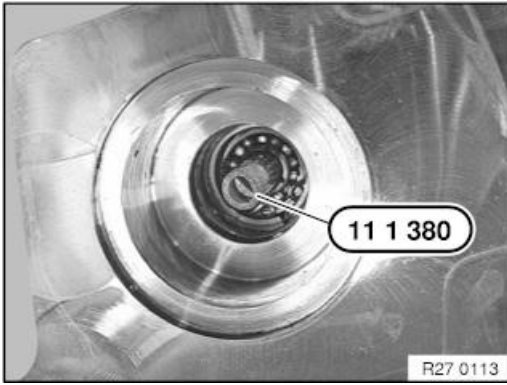
Release screws (2) and remove transfer box from control unit (longitudinal torque module) (3).

Tightening torque [27 00 13AZ](#).

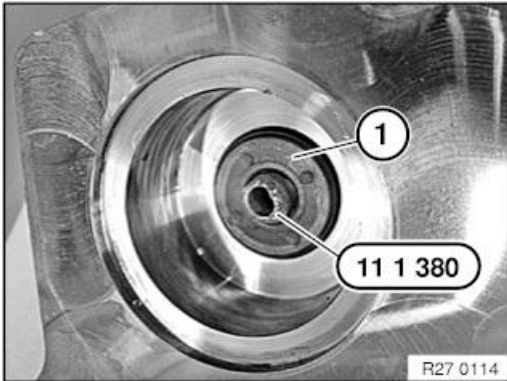


Screw special tool [23 0 490](#) into radial shaft seal.

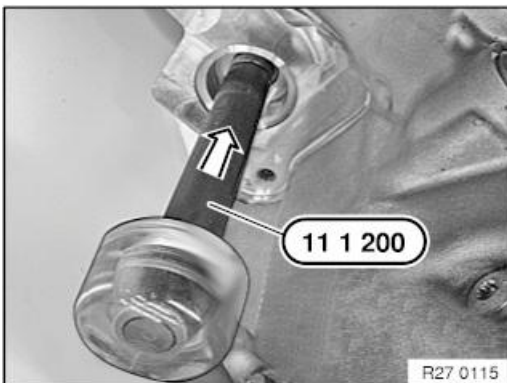
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve (2) onto the actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.
Remove the assembly sleeve.

**Special tools required:**

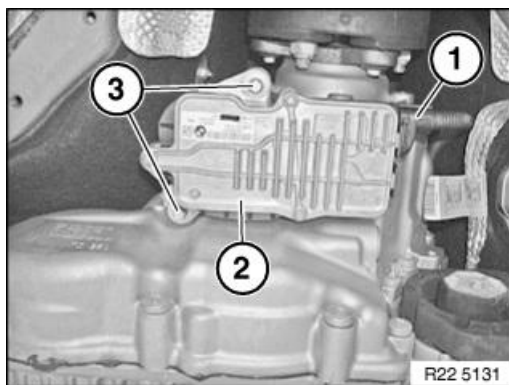
- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)

**Important!**

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

**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Remove [cross member](#).



Disconnect connector (1).

Release screws (3) and remove transfer box control unit (longitudinal torque module) (2).

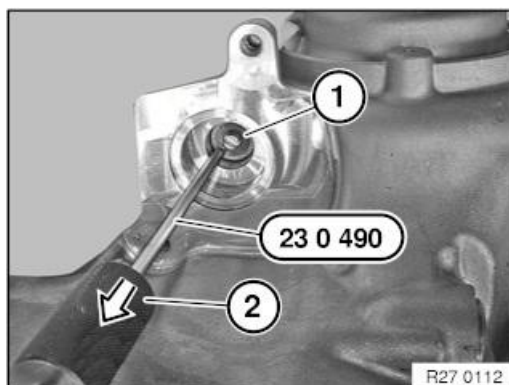
Tightening torque [27 10 3AZ](#).

Installation note:

Replace O-ring.

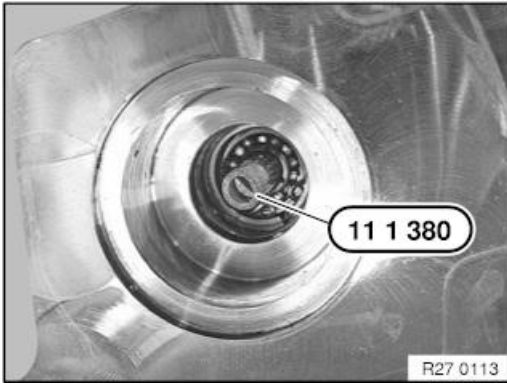
Note:

The radial shaft seal for the actuator shaft must also be replaced.

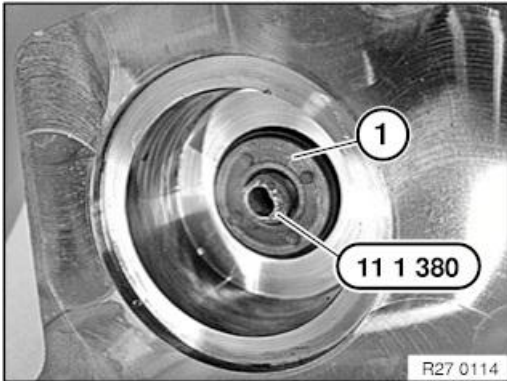


Thread special tool [23 0 490](#) into radial shaft seal (1).

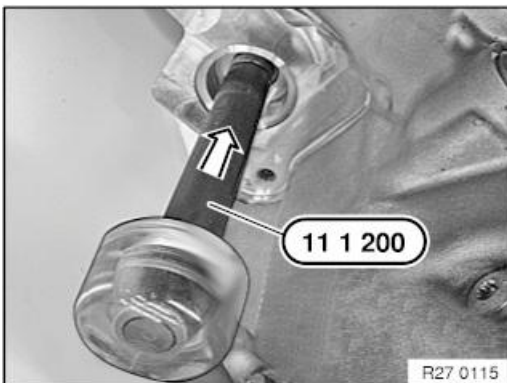
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve (2) onto the actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.
Remove the assembly sleeve.



Special tools required:

- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)



Important!

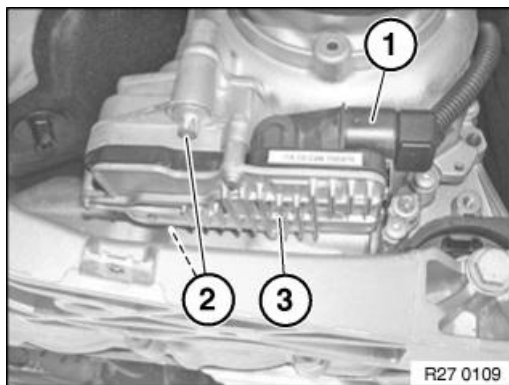
Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

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



Necessary preliminary tasks:

- Disconnect [battery earth lead](#).
- Remove [transmission cross member](#).



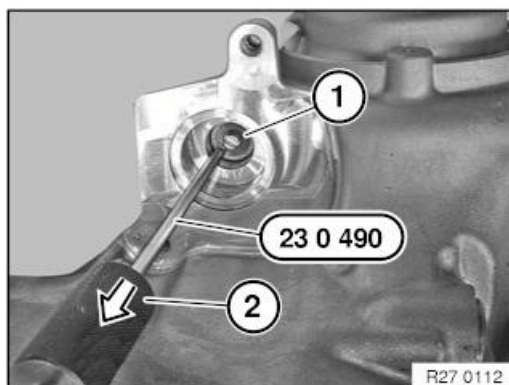
Disconnect connector (1).

Release screws (2) and remove transfer box from control unit (longitudinal torque module) (3).

Tightening torque [27 00 13AZ](#).

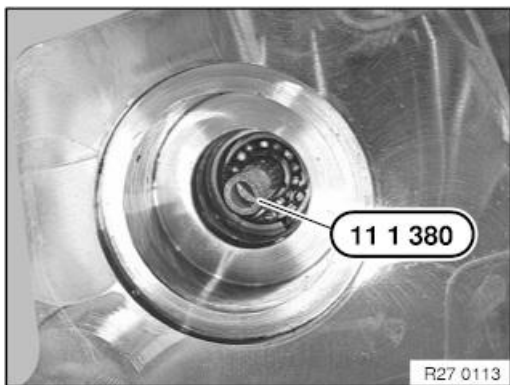
Note:

Radial shaft seal of actuator shaft must be replaced as well.

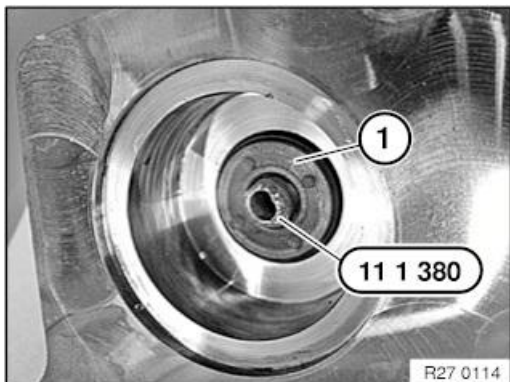


Thread special tool [23 0 490](#) into radial shaft seal (1).

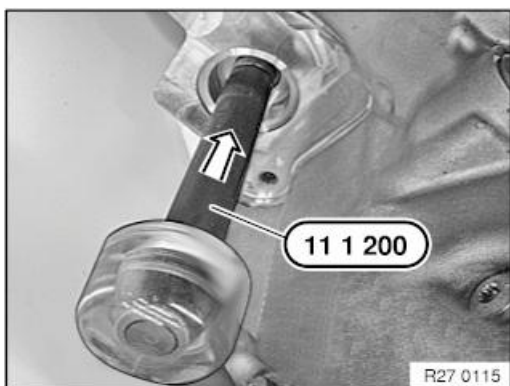
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve [11 1 380](#) onto actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.
Remove the assembly sleeve.



After replacement:
[Carry](#) out programming/encoding.



Special tools required:

- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)



Important!

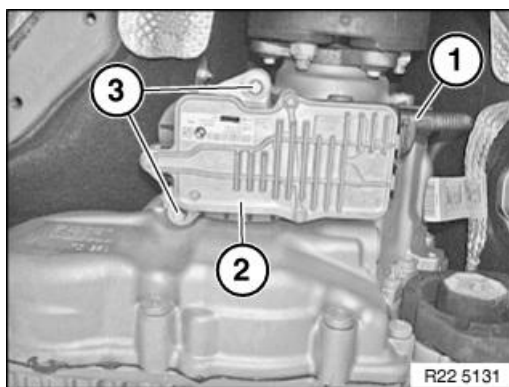
Before and after replacement, execute the "Repair" service function with the BMW diagnosis system.

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



Necessary preliminary tasks:

- Disconnect [battery earth lead](#)
- Remove [cross member](#).



Disconnect connector (1).

Release screws (3) and remove transfer box control unit (longitudinal torque module) (2).

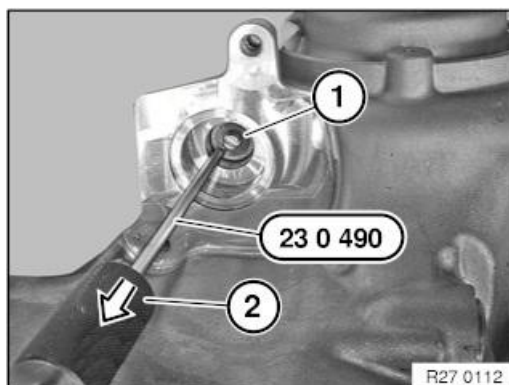
Tightening torque [27 10 3AZ](#).

Installation note:

Replace O-ring.

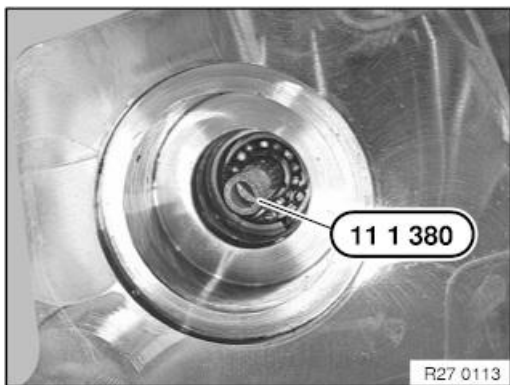
Note:

Radial shaft seal of actuator shaft must be replaced as well.

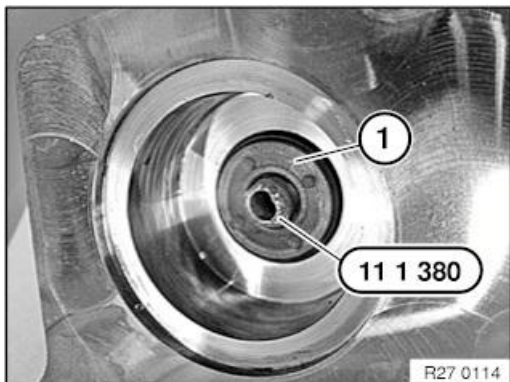


Thread special tool [23 0 490](#) into radial shaft seal (1).

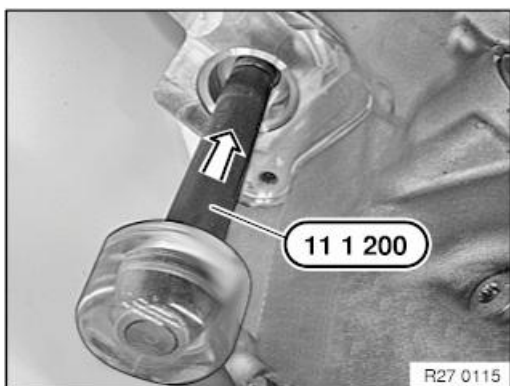
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve (2) onto the actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.

Remove the assembly sleeve.



After replacement:

[Carry](#) out programming/encoding.

**Special tools required:**

- [23 0 490](#)
- [27 1 430](#)

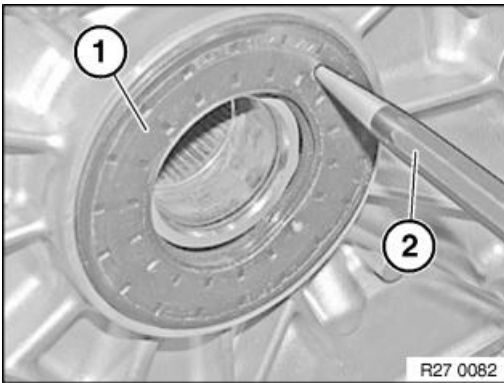
**Important!**

After completing repair work, check [transmission oil level](#) and top up if necessary.

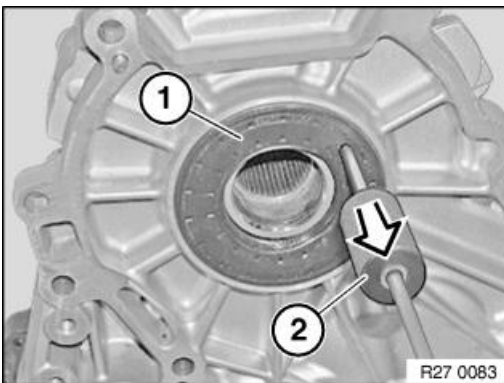
Use only the [approved transmission oil](#).

**Necessary preliminary tasks:**

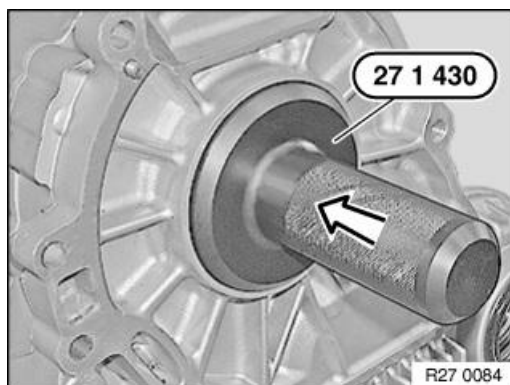
- Remove [transfer box](#).



Drive a hole into radial shaft seal (1) using a centre punch (2). **Important!**
Do not use a drill as drillings may result in transmission malfunction.



Screw special tool [23 0 490](#) into radial shaft seal.
Drive out radial shaft seal (1) with impact weight (2).



Installation note:

Coat sealing lips of new radial shaft seal with clean transmission oil.

Drive in radial shaft seal with special tool [27 1 430](#).



Reassemble the vehicle.

Check [transmission oil level](#).

Check transmission for leaks.

**Important!**

After completing work, check [transmission oil level](#) and top up if necessary.

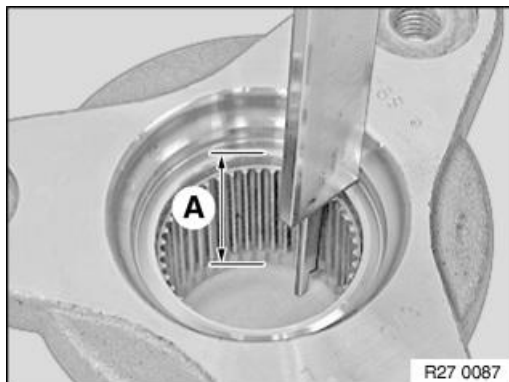
Use only the [approved transmission oil](#).

*Note:*

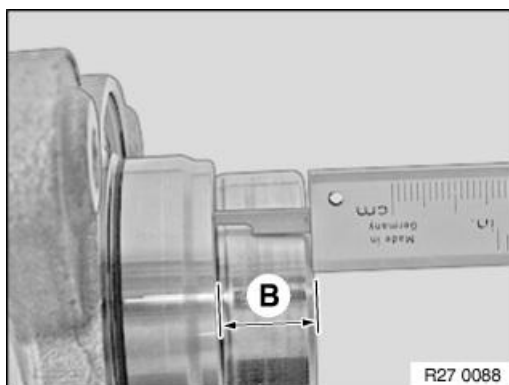
- Replace output flange **only** together with a new radial shaft seal.
- Procedure for removing output flange is identical to replacing [radial shaft seal](#).

Installation note:

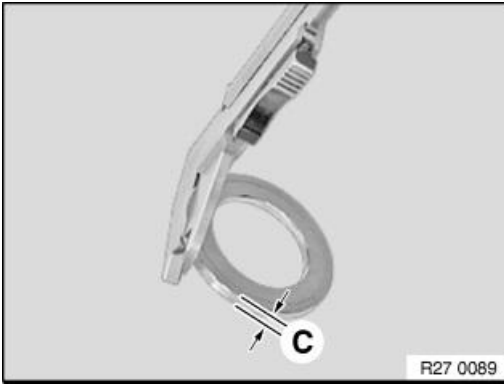
- Thickness of new shim must be determined before output flange is installed.



Determine and note down dimension A of output flange (old and new).



Determine and note down dimension B of output flange (old and new).



Determine old dimension C, thickness of shim.



Installation note:

Calculate thickness of new shim:

1. Add old dimension A of output flange (previous) and old dimension C of shim
Then subtract old dimension B from old result $A+C$
2. Subtract dimension B from dimension A of output flange (new)
3. Then subtract result of step 2 from result of step 1.

**Important!**

After completing work, check [transmission oil level](#) and top up if necessary.

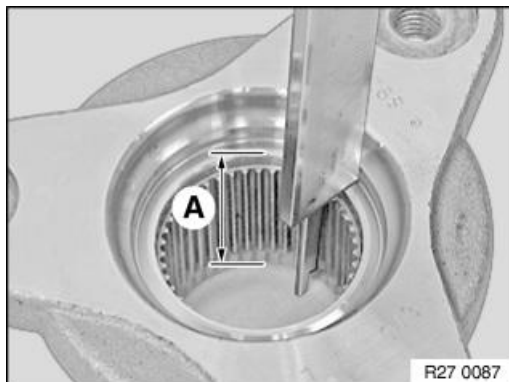
Use only [approved transmission oil](#) for this transfer box.

*Note:*

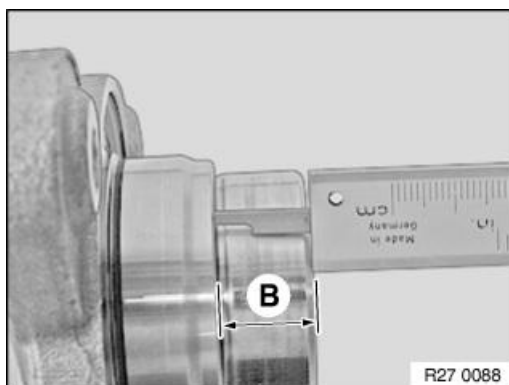
- Replace output flange **only** together with a new radial shaft seal.
- Operations for removing output flange are identical to replacing [radial shaft seal](#)

Installation note:

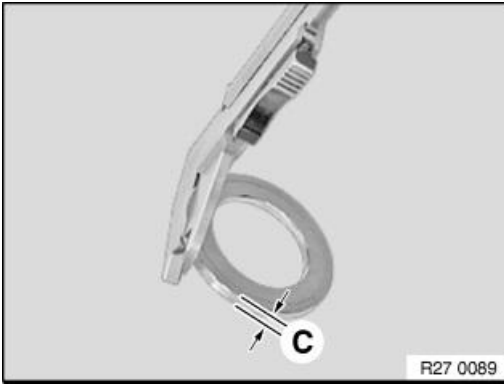
- Thickness of new shim must be determined before output flange is installed



Determine and note down dimension A of output flange (old and new).



Determine and note down dimension B of output flange (old and new).



Determine old dimension C, thickness of shim.



Installation note:

Calculate thickness of new shim:

1. Add old dimension A of output flange (previous) and old dimension C of shim
Then subtract old dimension B from old result $A+C$
2. Subtract dimension B from dimension A of output flange (new)
3. Then subtract result of step 2 from result of step 1.

**Special tools required:**

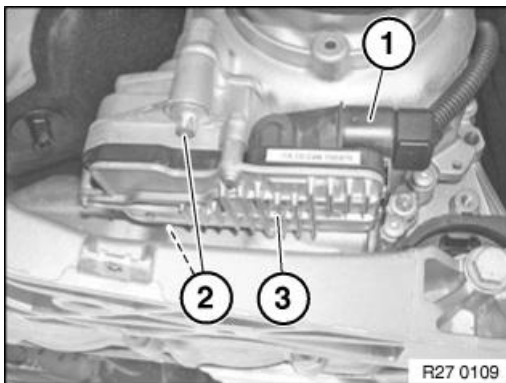
- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)

**Important!**

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

**Necessary preliminary tasks:**

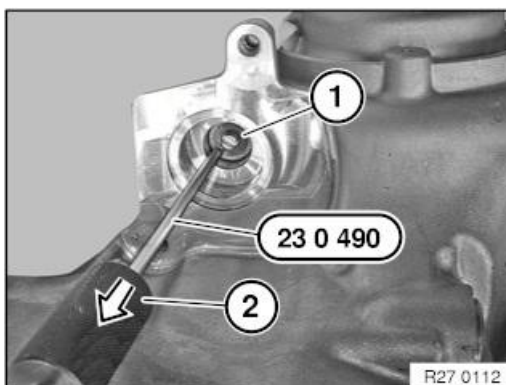
- Disconnect [battery earth lead](#)
- Remove [cross member](#).



Disconnect connector (1).

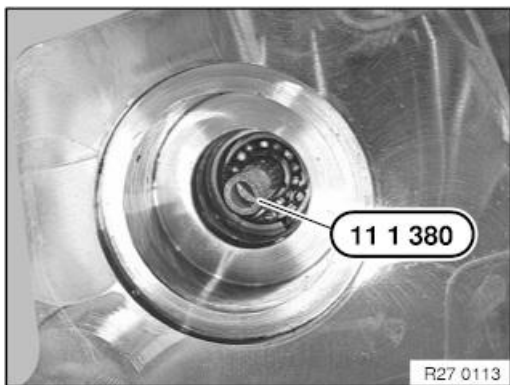
Release screws (2) and remove transfer box from control unit (longitudinal torque module) (3).

Tightening torque [27 00 13AZ](#).

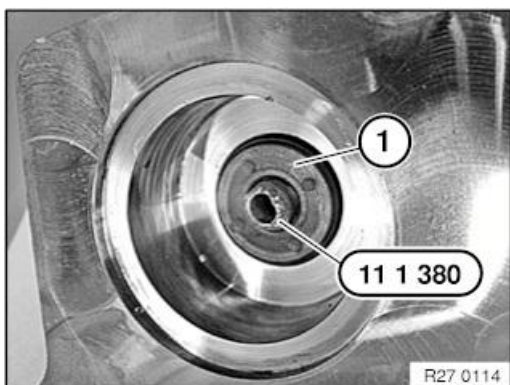


Screw special tool [23 0 490](#) into radial shaft seal.

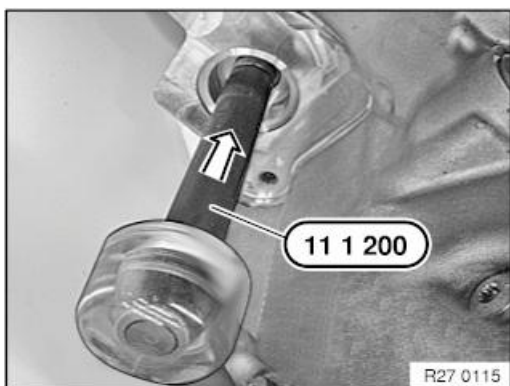
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve (2) onto the actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.

Remove the assembly sleeve.

**Special tools required:**

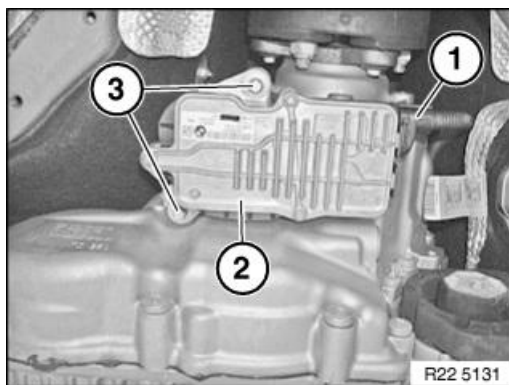
- [11 1 200](#)
- [11 1 380](#)
- [23 0 490](#)

**Important!**

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

**Necessary preliminary tasks:**

- Disconnect [battery earth lead](#)
- Remove [cross member](#).



Disconnect connector (1).

Release screws (3) and remove transfer box control unit (longitudinal torque module) (2).

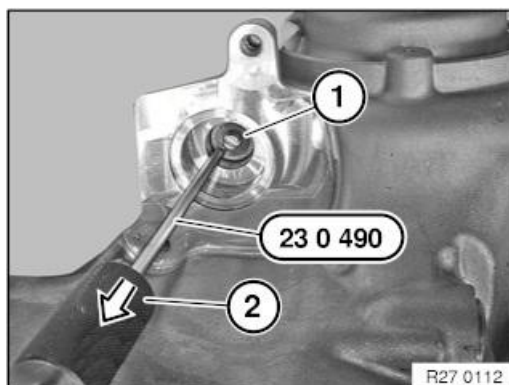
Tightening torque [27 10 3AZ](#).

Installation note:

Replace O-ring.

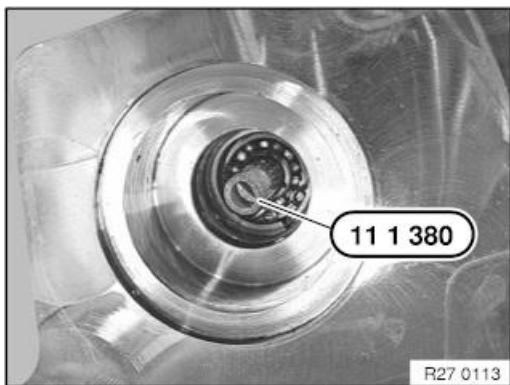
Note:

The radial shaft seal for the actuator shaft must also be replaced.

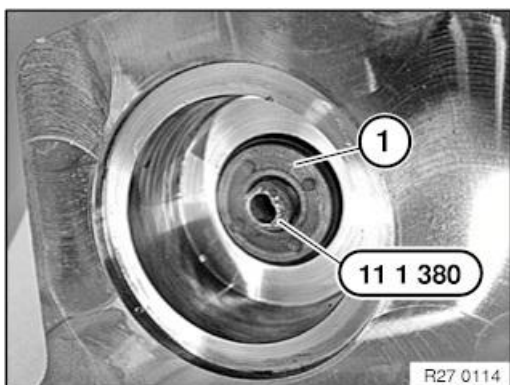


Thread special tool [23 0 490](#) into radial shaft seal (1).

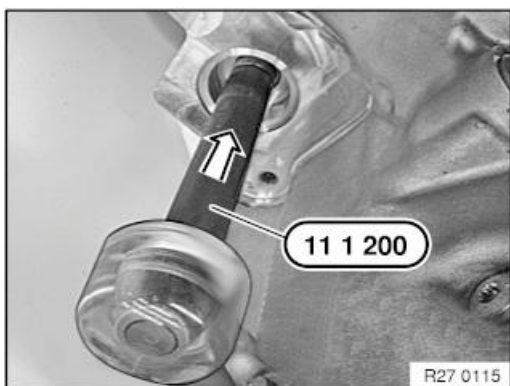
Drive out radial shaft seal (1) with impact weight (2).



Push the assembly sleeve [11 1 380](#) over the actuator shaft. **Important!**
Nonobservance involves a risk of damage to the radial shaft seal.



Slide the new radial shaft seal (1) over the assembly sleeve (2) onto the actuator shaft.



Drive radial shaft seal fully home using special tool [11 1 200](#) and plastic hammer.

Remove the assembly sleeve.

**Special tools required:**

- [23 0 490](#)
- [27 1 430](#)

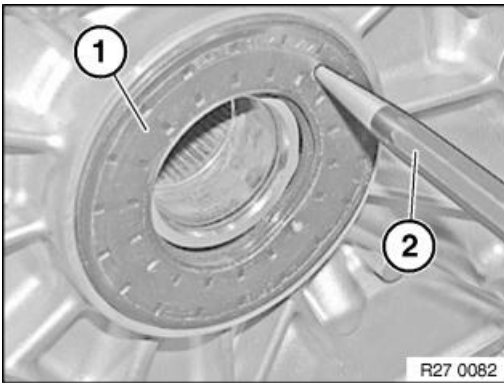
**Important!**

After completion of repair work, [check transmission oil level](#) and top up if necessary.

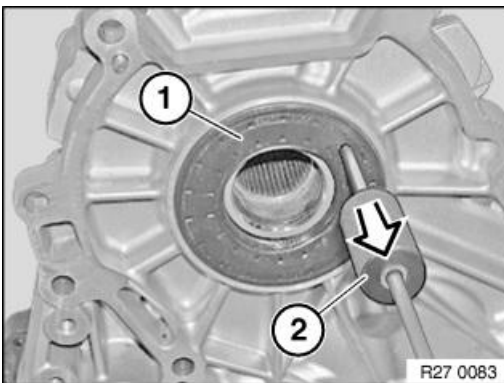
Use only [approved transmission oil](#) for this transfer box.

**Necessary preliminary tasks:**

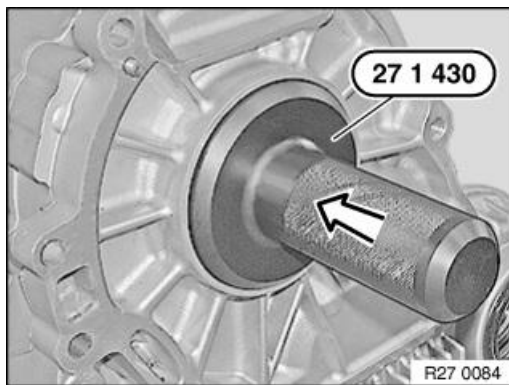
- Remove [transfer box](#).



Drive a hole into radial shaft seal (1) using a centre punch (2). **Important!**
Do not use a drill as drillings may result in transmission malfunction.



Screw special tool [23 0 490](#) into radial shaft seal.
Drive out radial shaft seal (1) with impact weight (2).



Installation note:

Coat sealing lips of new radial shaft seal with clean transmission oil.

Drive in radial shaft seal with special tool [27 1 430](#).



Install transfer box.

[Check oil level.](#)

Check transmission for leaks.

Reassemble the vehicle.

**Special tools required:**

- [27 1 450](#)

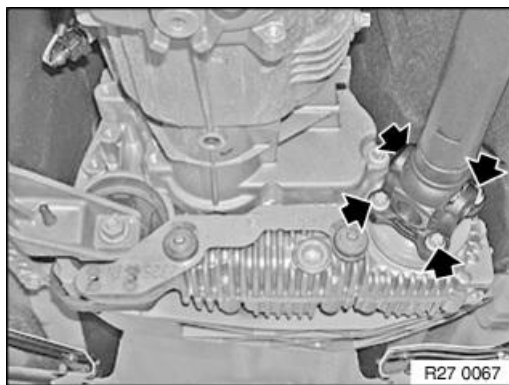
**Important!**

After completion of work, [check transmission oil level](#) .

Use only the [approved gear oil](#) in this transfer box.

**Necessary preliminary tasks:**

- Remove rear [underbody protection](#)



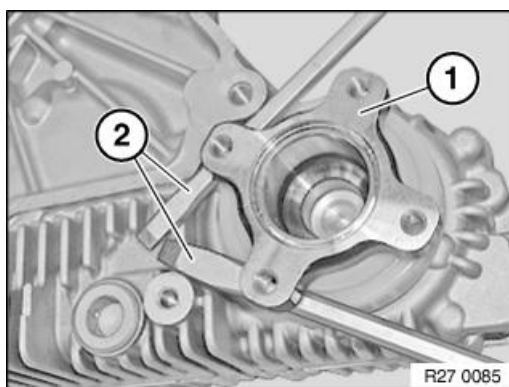
Release screws.

Tightening torque, [26 11 9AZ](#).

Remove front propeller shaft at output flange of transfer case and tie to one side.

Installation:

Replace screws.

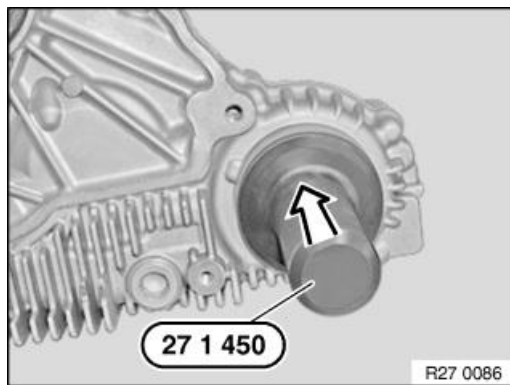


Lever output flange (1) out of housing with screwdriver (2).

Lever radial shaft seal out of housing with a suitable tool.

Important!

Do not damage housing.



Drive in radial shaft seal with special tool [27 1 450](#) .

**Special tools required:**

- [27 1 440](#)

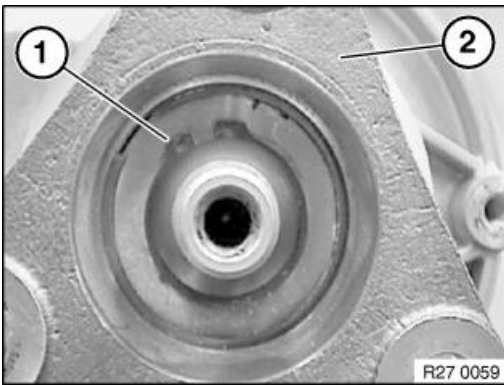
**Important!**

After completing work, check [gear oil level](#) and top up if necessary.

Use only [approved transmission oil](#) for this transfer box.

**Necessary preliminary tasks:**

- Remove [propeller shaft](#)



Release retaining ring (1).

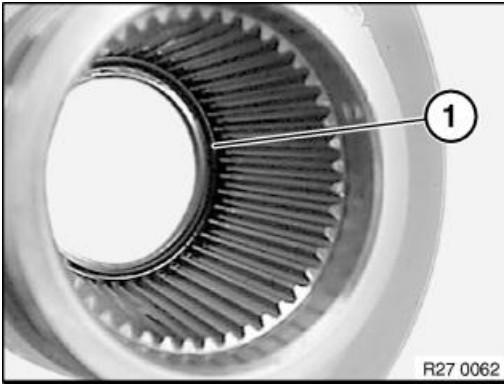


Release output flange with three-claw extractor tool.

Lever radial shaft seal out of housing with a suitable tool.

Important!

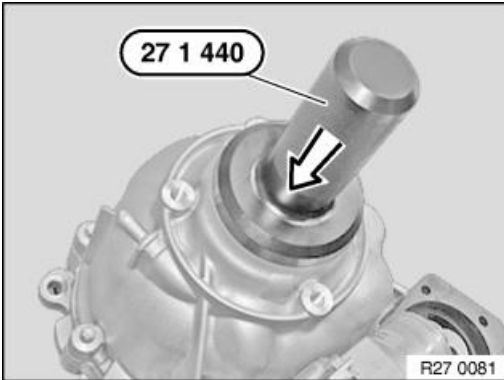
Do not damage housing.



Installation:

Replace O-ring in output flange.

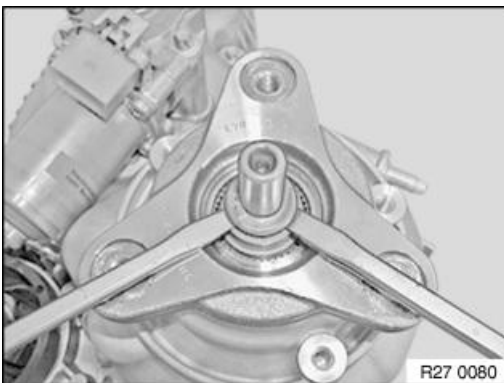
Check that O-ring is in correct position.



Installation:

Coat sealing lips of new radial shaft seal with clean transmission oil.

Drive in radial shaft seal with special tool [27 1 440](#).



Installation:

- Push on output flange
- Press down output flange using 2 screwdrivers
- Fit washer
- Continue pressing output flange down until retaining groove is completely visible
- Fit retaining ring

**Special tools required:**

- [27 1 440](#)

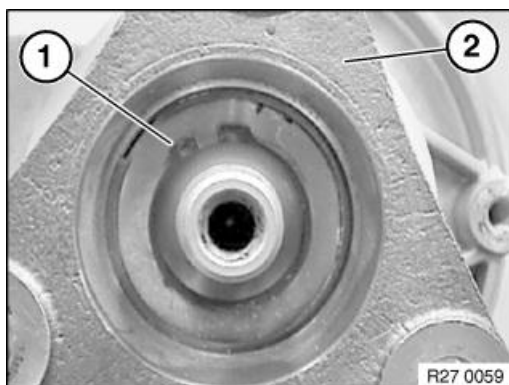
**Important!**

After completing repair work, check [transmission oil level](#) and top up if necessary.

Use only the [approved transmission oil](#).

**Necessary preliminary tasks:**

- Disconnect [propeller shaft](#) at gearbox, release centre mount
- Tie back propeller shaft to underbody
- **Note:**
- An excessive deflection angle of the propeller shaft may damage the joint/propeller shaft!
- Support gearbox with jack when removing the transfer box.



Release circlip (1).

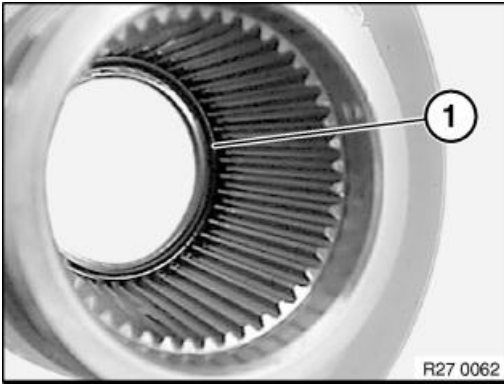


Release output flange with three-claw extractor tool.

Lever radial shaft seal out of housing with a suitable tool.

Important!

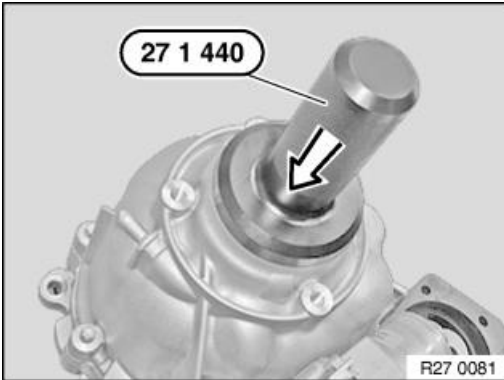
Do not damage housing.



Installation note:

Replace O-ring in output flange.

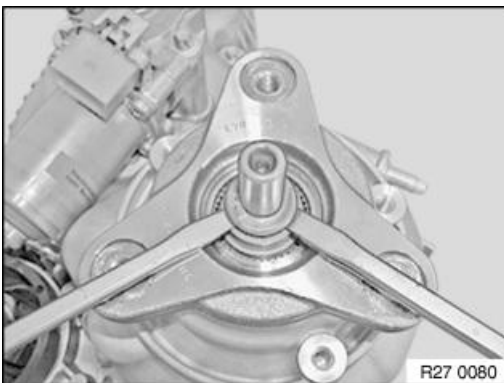
Check that O-ring is in correct position.



Installation note:

Coat sealing lips of new radial shaft seal with clean transmission oil.

Drive in radial shaft seal with special tool [27 1 440](#).



Installation note:

- Push on output flange
- Press down output flange using 2 screwdrivers
- Shim
- Continue pressing output flange down until retaining groove is completely visible
- Fit circlip

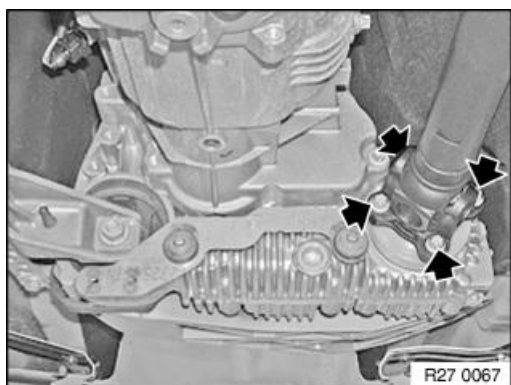
**Important!**

After completion of repair work, [check transmission oil level](#).

For these transfer boxes, use [approved transmission oil](#) only.

**Necessary preliminary tasks:**

- Remove rear [underbody protection](#).
- Remove left holder for underbody protection.



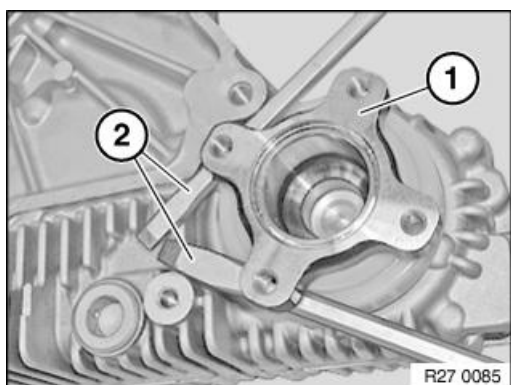
Release screws.

Tightening torque [26 11 9AZ](#).

Remove front propeller shaft at output flange of transfer box and tie to one side.

Installation note:

Replace screws.

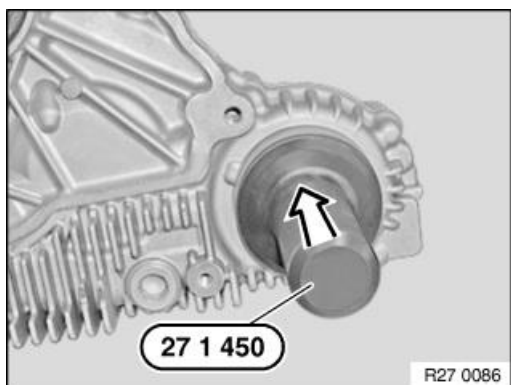


Lever output flange (1) out of housing with screwdriver (2).

Lever radial shaft seal out of housing with a suitable tool.

Important!

Do not damage housing.



Drive in radial shaft seal with special tool 27 1 450.

**Special tools required:**

- [00 2 080](#)

**Important!**

Use only the approved [transmission oil](#) in the transfer box.

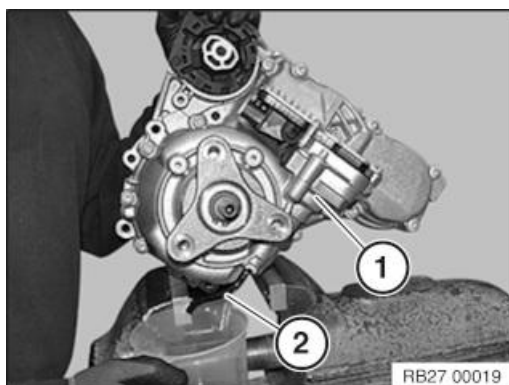
Failure to comply with this requirement will result in serious damage to the transfer box!

Note:

Only change oil when transfer box is at normal operating temperature.

**Necessary preliminary tasks:**

- Remove [transfer box](#).



Place oil collecting apparatus underneath.

Drain and dispose of the transmission oil using the transmission breather (2).

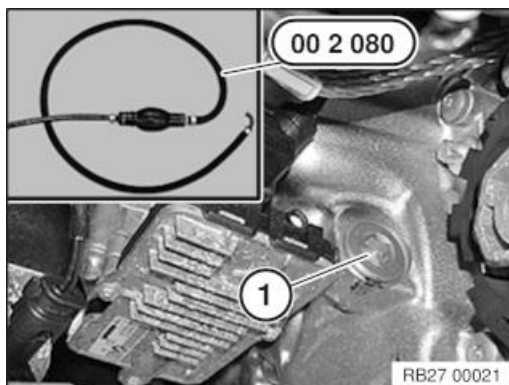
- Observe country-specific waste disposal regulations

Note:

Do not drain transmission oil through the oil filler plug because complete emptying cannot be guaranteed using the oil filler plug!



Install [transfer box](#).



Undo oil filler plug (1).

Tightening torque [27 10 2AZ](#).

Use special tool [00 2 080](#) to top the transmission oil up to the lower edge of the filler screw opening.

Installation note:

Renew oil filler plug with O-ring.

**Important!**

Use only the approved [gearbox oil](#) in the transfer box.

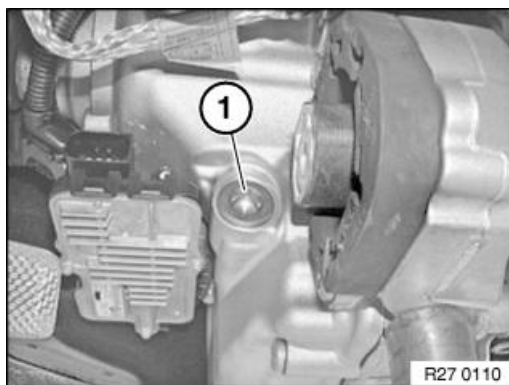
Failure to comply with this requirement will result in serious damage to the transfer box!

Note:

Only change oil when transfer box is at normal operating temperature.

**Necessary preliminary tasks:**

- Remove [underbody protection](#)
- Remove [exhaust system](#)
- Remove heat shield

Check transfer box oil level, correct:

Undo oil filler plug (1).

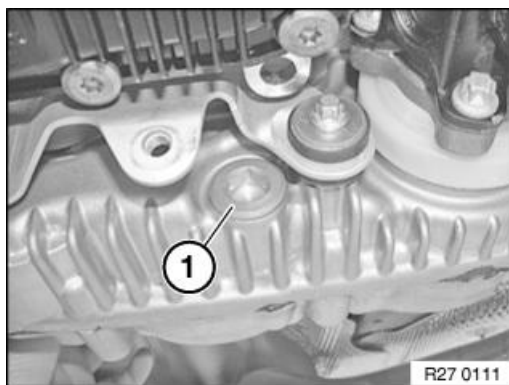
Check transfer case oil level.

If necessary, pour in transmission oil up to lower edge of opening for oil filler plug (1).

Installation note:

Renew oil filler plug with O-ring.

Tightening torque [27 00 11AZ](#).

Changing transfer box oil:

Place oil collecting apparatus underneath.

Remove oil drain plug (1).

Drain and dispose of transmission oil.

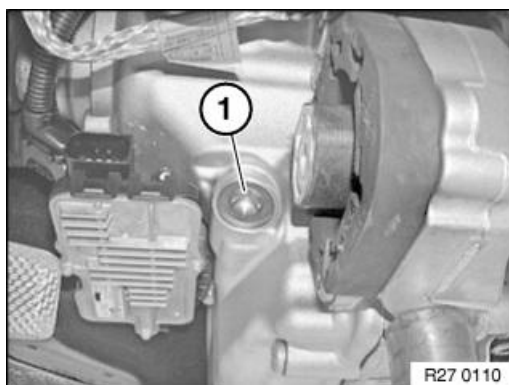
Note: Observe country-specific waste disposal regulations

Installation note:

Renew oil drain plug with O-ring.

Screw in oil drain plug (1) and tighten.

Tightening torque [27 00 11AZ](#).



Undo oil filler plug (1).

Pour in transmission oil up to lower edge of opening for oil filler plug (1).

Tightening torque [27 00 11AZ](#).

Installation note:

Renew oil filler plug with O-ring.