

**SWZ-SWZ-2240465 Shaped element**; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming	- data
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

**2240465 Shaped element**

Minimum set: Mechanical tools  
AM



In conjunction with: 33 5 120 = 0495851

Note: For pulling out drive shaft from rear axle differential in combination with 33 5 120

Storage Location: B30

C30

SI number: 01 12 11 (724)

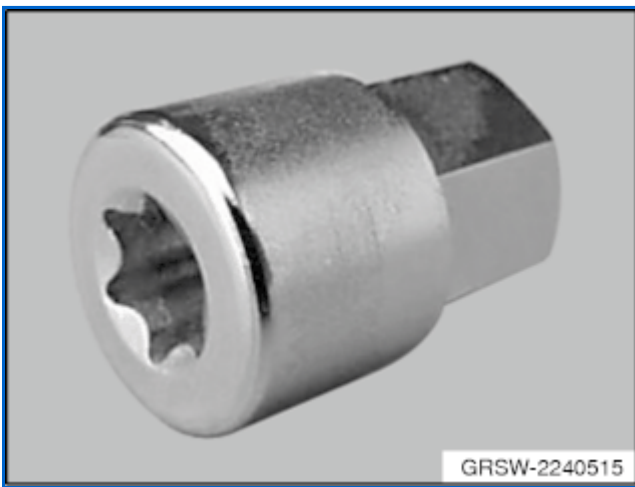
SWZ-SWZ-2240515 Socket; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming	- data
VIN	XXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

## 2240515 Socket

Minimum set: Mechanical tools

Mechanical tool



Note: Torx socket E10. For removing and installing vibration absorber on rear axle differential.

Storage Location: B30

SI number: 01 12 11 (724)

**SWZ-SWZ-0490504 Torque angle measuring dial; VIN: XXXXXXXX**

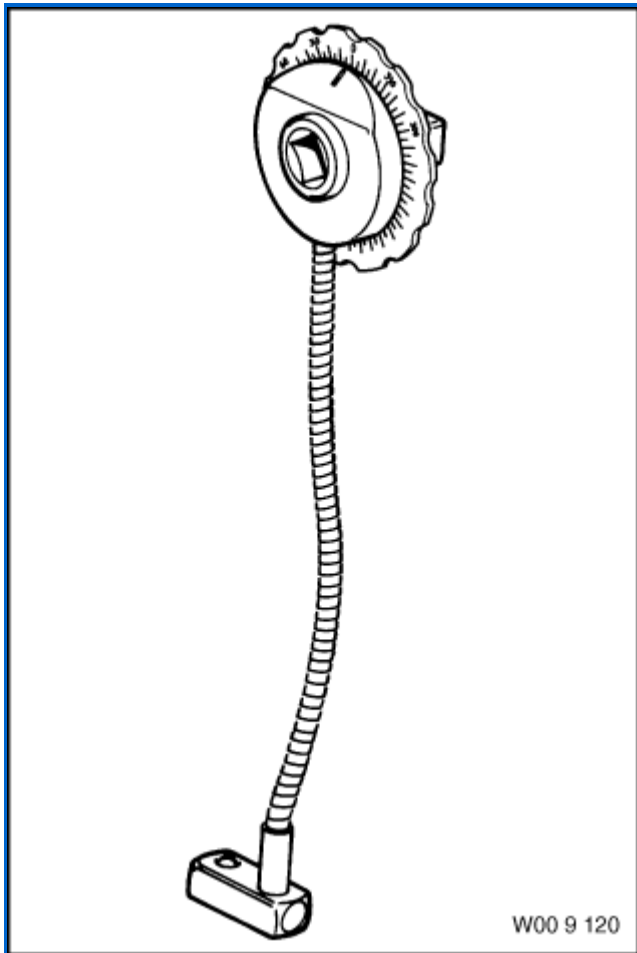
ISTA system version	4.1.22.17498	Data version	R3.54	Programming	- data
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

## 0490504 Torque angle measuring dial

009120

Minimum set: Mechanical tools

AM



Note:

For torsion angle adjustment of cylinder head bolts (all engines) And reinforcement plate front axle support E46

Storage Location: A4

SWZ-SWZ-0495554 Extension&amp;comma; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming data	-
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

**0495554**      Extension

335070

Minimum set: Mechanical tools

AM



Note: (2 pieces) Pull-out extension for 33 5 040, 33 5 050, 33 5 060.

Storage Location: A18

B18

SI number: 01 21 06 (300)

Consisting of:

1 = [0495592](#) Extension

Note: (Extension (1 item))  
discontinued, can only be ordered  
using complete tool

REP-REP-RAF3018N55-1800020 Removing and installing complete exhaust system (N55)  
&comma; VIN: XXXXXXXX

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ISTA system version	4.1.22.17498	Data version	R3.54	Programming - data
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07	
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.) -
Mileage	0 km			

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18 00 020

**Removing and installing complete exhaust system (N55)**



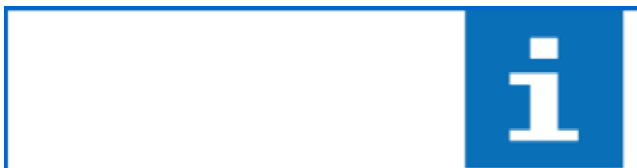
**Warning!**

**Risk of burning!**

Only perform this repair work after engine has cooled down.

**Danger of injury!**

Removal of the exhaust system must be carried out with the assistance of a second person.



**Necessary preliminary tasks:**

- Only F21, F22, F23, F31, F32, F33, F34:  
Remove rear trailing link.
- F23, F31, F33, F34, F36 only:  
Remove tension strut (rear axle) left or right.

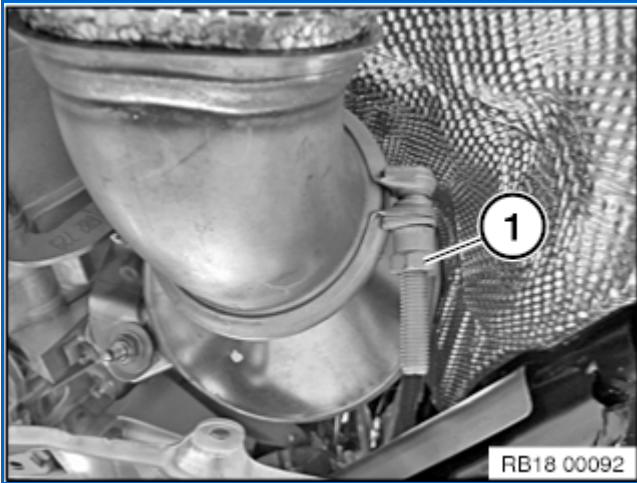


Support exhaust system with a suitable jack and secure it against falling down.

Release clamp (1).

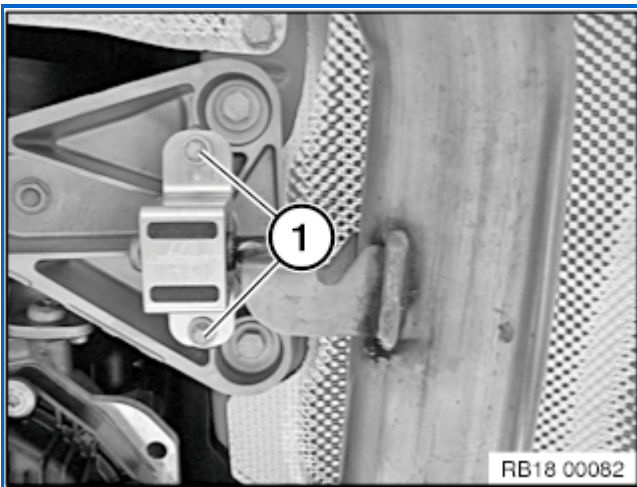
Renew V-band clamp.

Tightening torque [18 31 1AZ](#).



Release screws (1).

Tightening torque [18 20 2AZ](#).

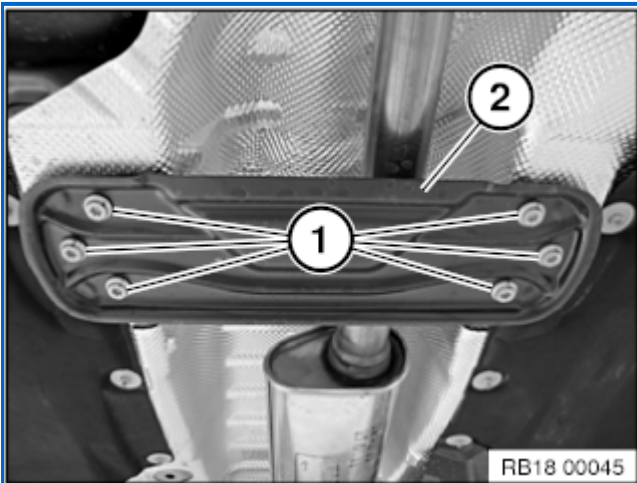


**If fitted:**

Release screws (1).

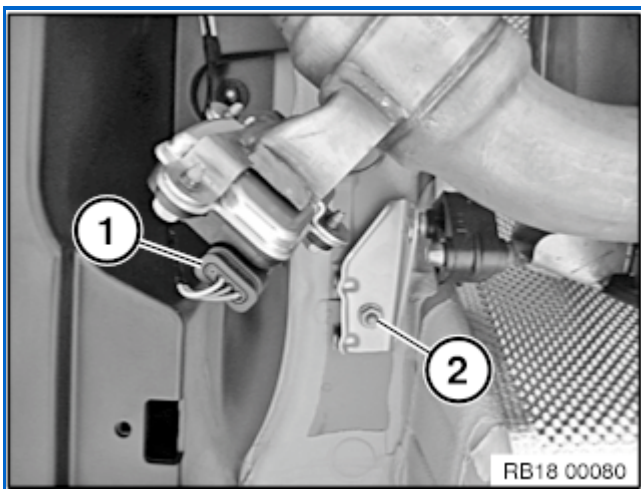
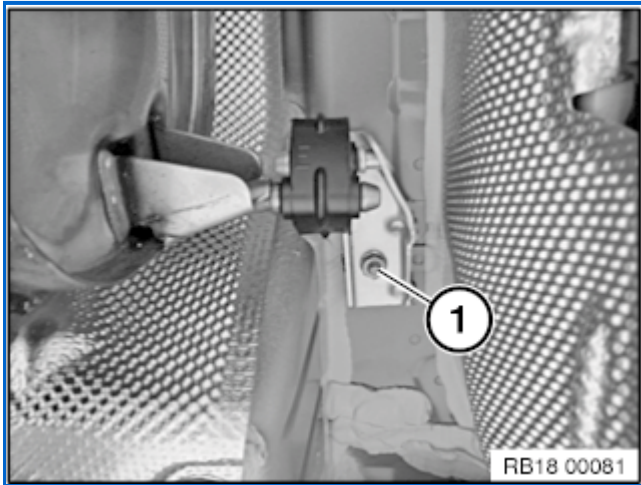
Tightening torque [18 31 3AZ](#).

Remove reinforcement plate (2).



Unfasten nut.

Tightening torque [18 20 3AZ](#).



Unlock connector from exhaust flap and pull off.

Slacken nut (2).

Tightening torque [18 20 3AZ](#).

Lower and remove exhaust system with assistance of a second person.



*Installation note:*

Check rubber mount for damage.

If necessary, replace damaged rubber mounts.

Check exhaust system for leak tightness.

# REP-REP-RAF3026-2611000 Removing and installing propeller shaft (inserted) completely&comma; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming - data
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07	
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.) -
Mileage	0 km			

26 11 000

Removing and installing propeller shaft (inserted) completely

## Special tools required:

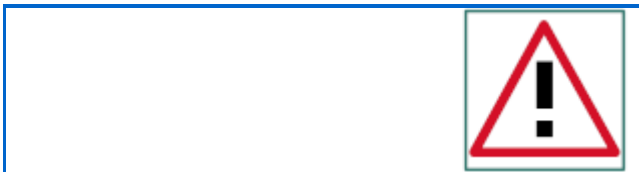
- [00 9 120](#)
- 00 9 130
- 33 0 080
- [33 5 070](#)



## Important!

On four-wheel drive vehicles with defective, non-engaging drive, it is imperative that the following information is taken account of.

- Additional work when replacing the propeller shaft.



## Important!

Replacement of the sunk nut on the rear axle final drive is absolutely required!

The sunk nut already has a screw locking.

After the propeller shaft has been screwed into the rear axle final drive (sunk nut), a **hardening time of at least 2 hours** is absolutely necessary.

The hardening time may be extended at lower temperatures!

Failure to comply with these instructions may cause



serious damage!



#### Necessary preliminary tasks:

- Remove [complete exhaust system](#).
- Remove heat shields.
- Support transmission with lifter.
- Remove [cross member](#) if necessary.



#### Important!

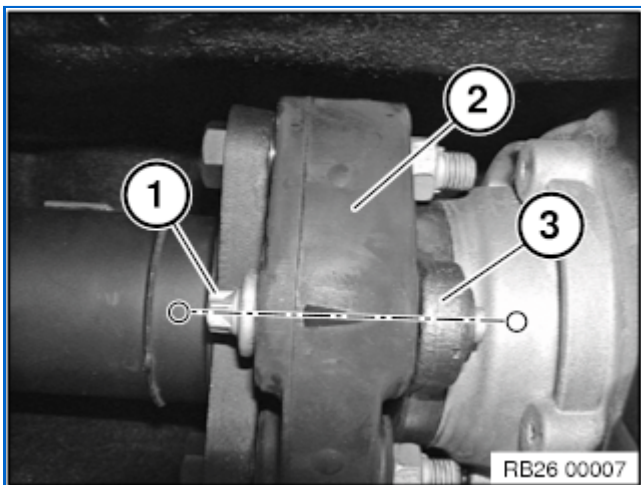
Adhere without fail to the installation and bolt-tightening sequence.

Installation sequence:

1. Join propeller shaft to transmission
2. Join propeller shaft to rear axle final drive
3. Join centre mount

Screw-fastening sequence:

1. Insert nut
2. Flexible disc to transmission
3. Centre mount

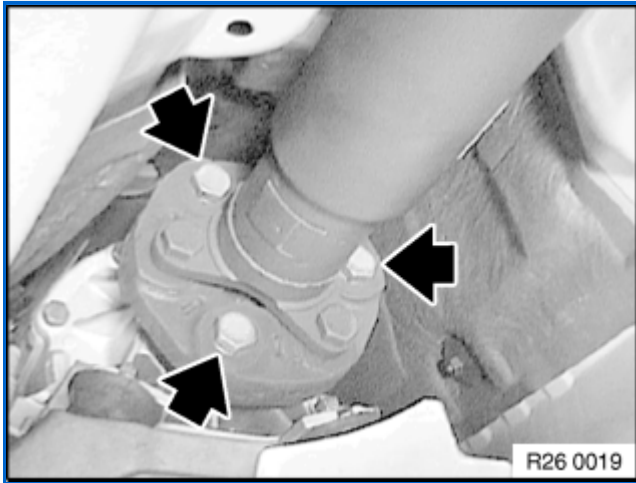


#### Important!

To avoid buzzing sound after refitting the propeller shaft:

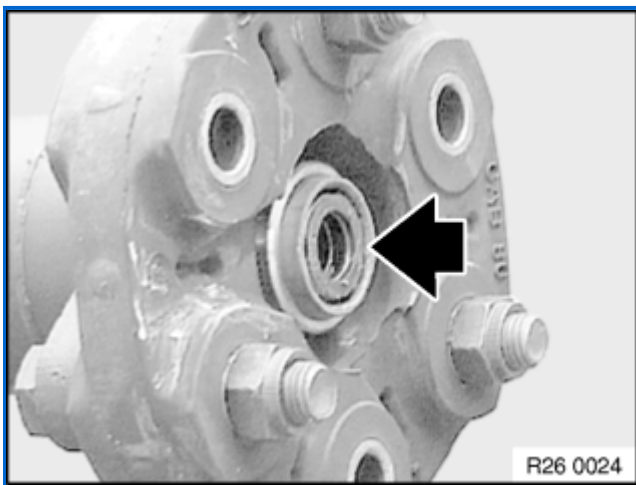
1. The flexible disc connection (1) on the front at the propeller shaft **must** be marked in one plane with the flexible disc (2) and the three-bolt flange (3) before removal.
2. During installation the three-bolt flange (3) must be forced back together again with the flexible disc (2) in the same position.
3. Replace ZNS screws and self-locking nuts.

Loosen screws.



**Installation note:**

- Renew ZNS screws and self-locking nuts
- Grip mounting bolts of flexible disc at nuts and tighten down by way of bolts.



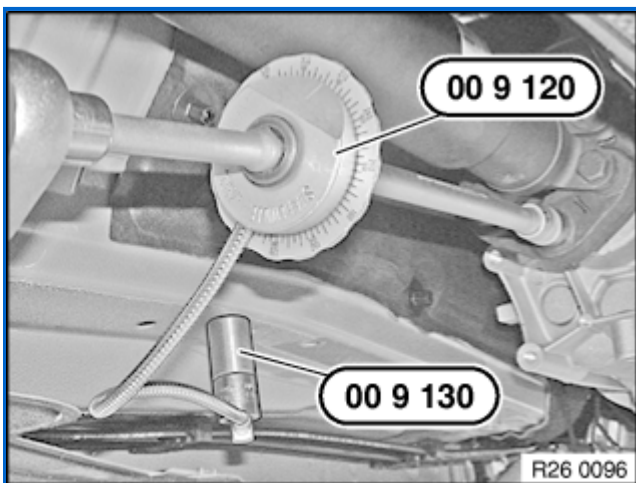
**Installation note:**

Check centring mount.

If necessary, replace damaged [centring](#).

Grease centring mount.

- Grease: BMW Service [Operating Fluids](#).



*Installation note:*

Tighten down screws/bolts to specified torque.

Secure angle of rotation special tool [00 9 120](#) with magnets [00 9 130](#) to vehicle underbody and screw down further according to angle of rotation.

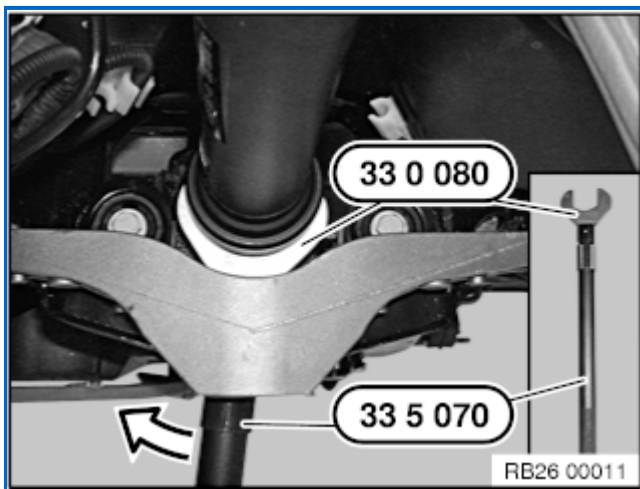
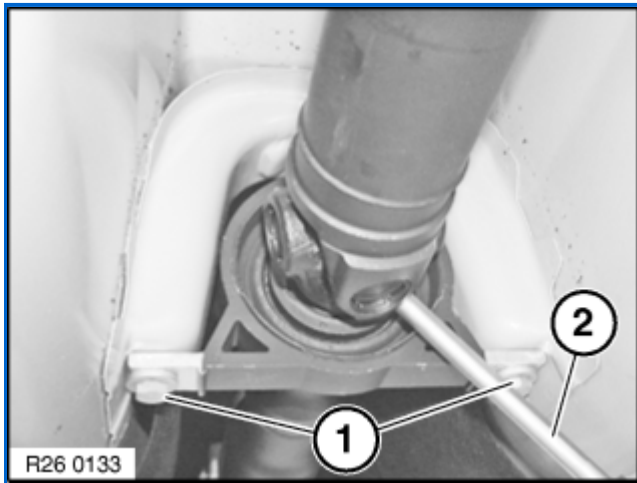
Tightening torque [26 11 1AZ](#).

Slacken screws (1)

Tightening torque [26 11 5AZ](#).

Using a suitable tool (2), secure propeller shaft at centre universal joint against twisting.

Remove screws of centre mount fully only after opening insert nut.



### Important!

The bi-hexagonal flange nut must not be used for bracing.

Failure to comply with this instruction may result in serious damage to the rear axle final drive.

### Important!

The sunk nut must be opened clockwise - see direction of arrow.

Turning the recessed nut in anticlockwise direction will automatically tighten the recessed nut further and significantly damage the bi-hexagonal flange nut.

If the insert collar of the flange nut was damaged, the propeller shaft can **no longer** be secured using a new sunk nut and the rear axle differential must be replaced.

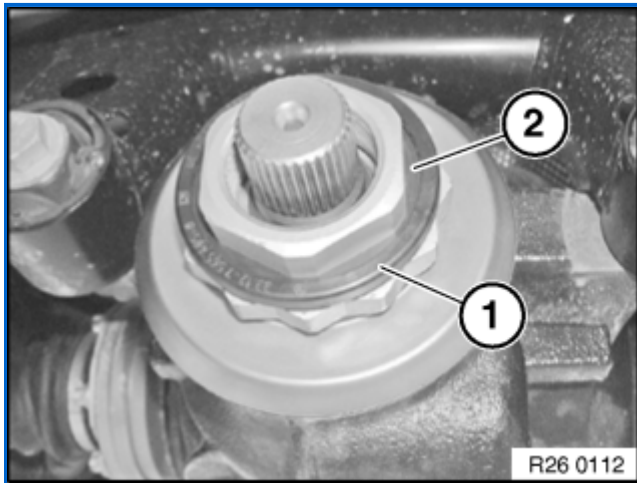
Release sunk nut clockwise with special tools 33 0 080 and [33 5 070](#).

Tightening torque [26 11 6AZ](#).

Remove retaining clip (1) and gasket (2).

*Installation note:*

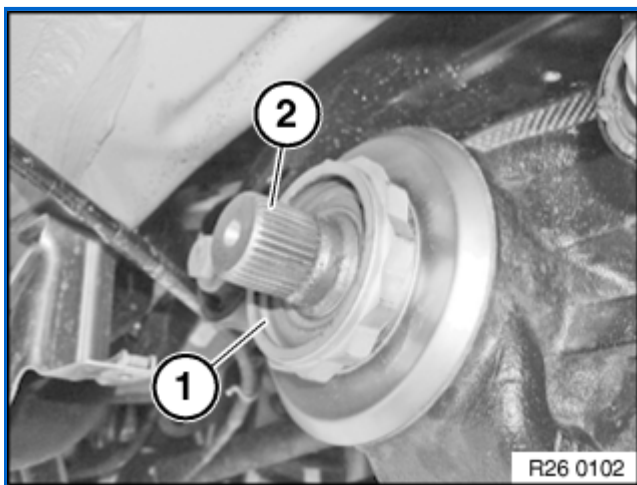
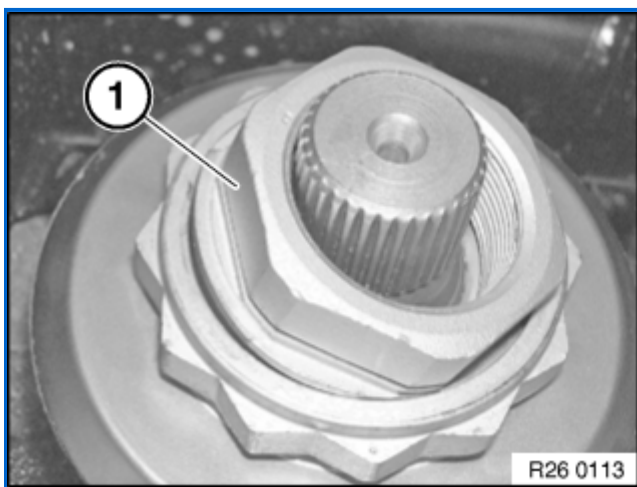
Retaining clip and gasket must be replaced.



Remove insert nut (1).

*Installation note:*

Insert nut must be replaced.



Before installing propeller shaft:

Clean insert collar (1) on flange nut and spline teeth on bevel pinion (2).

Top up insert collar (1) with grease.

Grease: BMW Service [Operating Fluids](#).

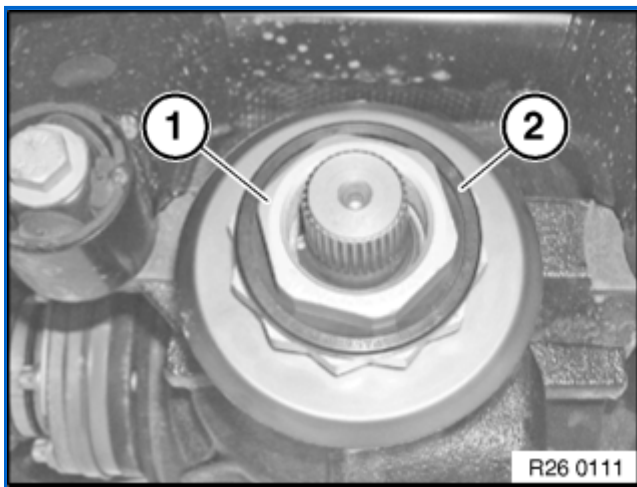
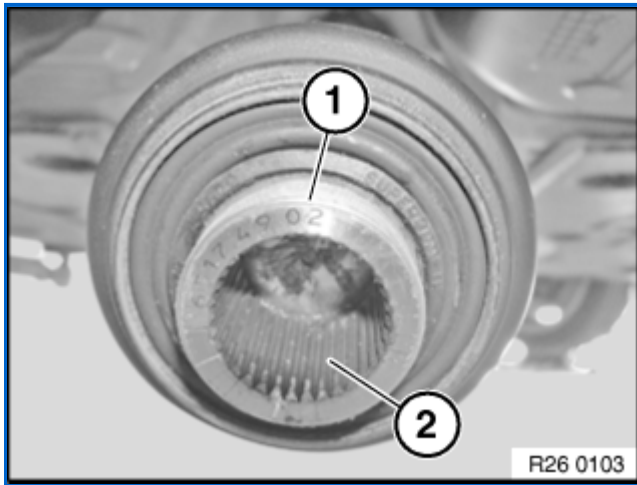
Clean thread (1) of joint hub to remove adhesive residues.

Clean hub teeth (2), then coat with grease.

Grease: BMW Service [Operating Fluids](#).

**Important!**

Thread of joint hub must **not** be fouled with grease.



Place insert nut (1) with seal in insert collar of flange nut.  
Install retaining clip (2).



### Important!

Adhere without fail to the installation and bolt-tightening sequence.

Installation sequence:

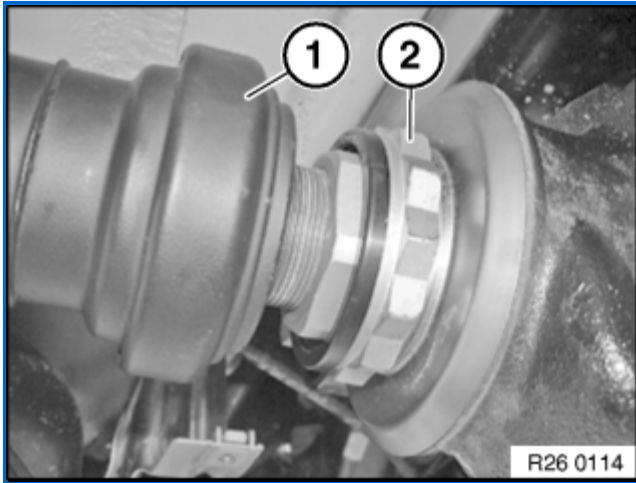
1. Join propeller shaft to transmission
2. Join propeller shaft to rear axle final drive
3. Join centre mount

Screw-fastening sequence:

1. Insert nut
2. Flexible disc to transmission
3. Centre mount

Slide propeller shaft (1) to the limit position onto insert nut and secure.

Secure propeller shaft at centre universal joint against



turning with a mounting lever.

**Important!**

**The bi-hexagonal flange nut (2) must not be used for bracing.**

Failure to comply with this instruction may result in serious damage to the rear axle final drive.

Insert nut must be screwed into place **within 5 min.**

Tightening torque [26 11 6AZ](#).

# REP-REP-RAF2033-3310016 Removing and installing (replacing) rear axle differential; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming data	-
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

33 10 016

Removing and installing  
(replacing) rear axle differential

## Special tools required:

- 33 5 206
- 33 5 200
- 33 5 124
- [2 240 465](#)
- 33 5 121
- 33 5 122
- 33 5 123
- 2 360 787
- 2 240 265
- 2 240 464
- 33 5 125
- 2 360 944



## Warning!

Rear axle differential must be lashed with tensioning strap 33 5 206 to prevent it from falling out when the output shafts are pressed off.

## Important!

When reinstalling the current rear axle differential, [both radial shaft seals of the output shafts](#) must be





replaced!

The circlips on both output shafts must be replaced!

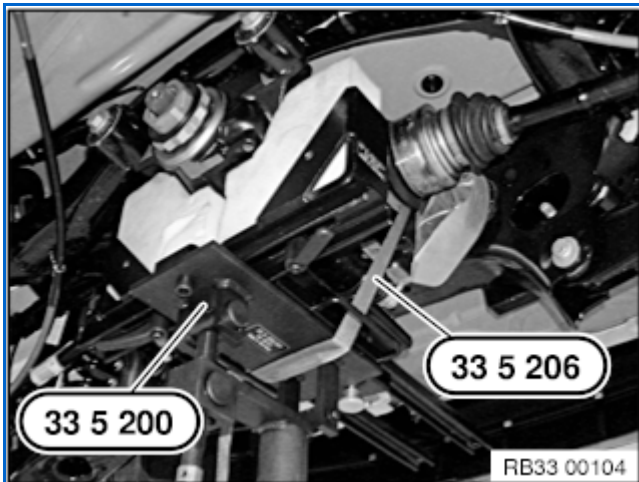


*Necessary preliminary tasks:*

- Remove [vibration absorber](#) at screw connection of rear of rear axle differential.
- If necessary, remove rear tension struts.
- Remove [propeller shaft from rear axle differential](#).
  - Disconnect propeller shaft at rear axle differential.
  - 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!



Position special tool 33 5 200 on workshop jack.

Support rear axle final drive 33 5 200 with special tool .

Lash rear axle final drive unit to special tool 33 5 200 with tightening strap 33 5 206.

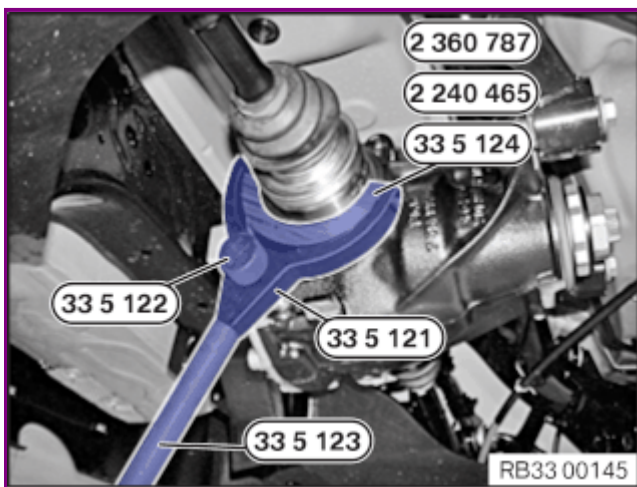
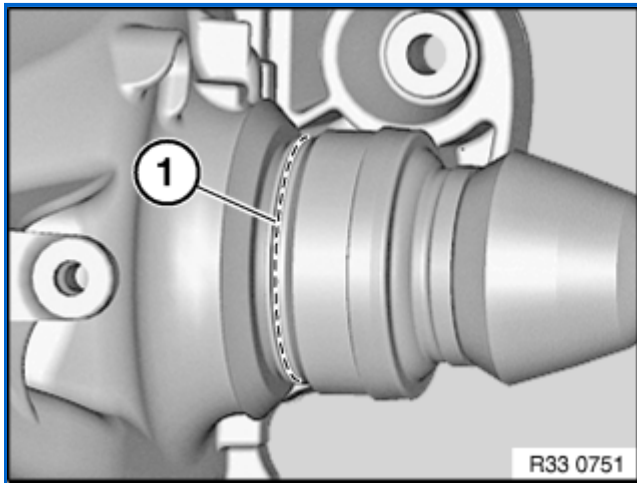
**Important!**

Securing strap 33 5 206 must be passed through between output shafts and rear axle final drive cover.

**Important!**

Insert special tools 33 5 124 or [2 240 465](#) into the all-round slot (1) of the output shaft!





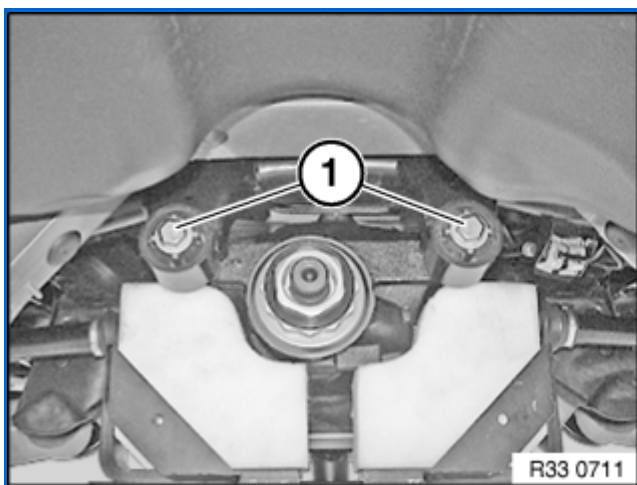
#### Left output shaft only:

Press out the output shaft from the rear axle differential with jerky movements using the following special tools.

Complete special tools depending on the motorisation.

- N13, B38,  
N20B20: 33 5 121, 33 5 122, 33 5 123, [2 240 465](#)
- N47, B47, N55,  
N57: 33 5 121, 33 5 122, 33 5 123, 33 5 124
- N20B28: 33 5 121, 33 5 122, 33 5 123 and  
33 5 124 or 2 360 787

The thrust piece of the screw 33 5 122 must be in contact with the rear axle differential.



Release screws (1).

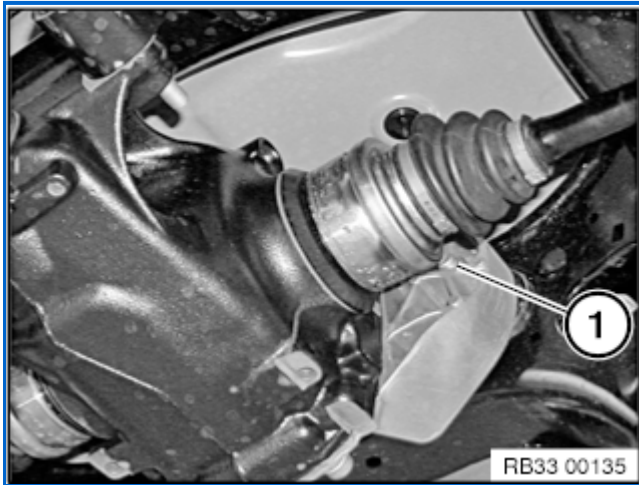
Tightening torque [33 17 1AZ](#)

#### *Installation note:*

Adhere to the installation sequence at the end of the document in order to prevent distortion of the rear axle final drive during installation and thereby avoid potential complaints about noise.

Release nut (1) and push screw towards rear to the limit position.

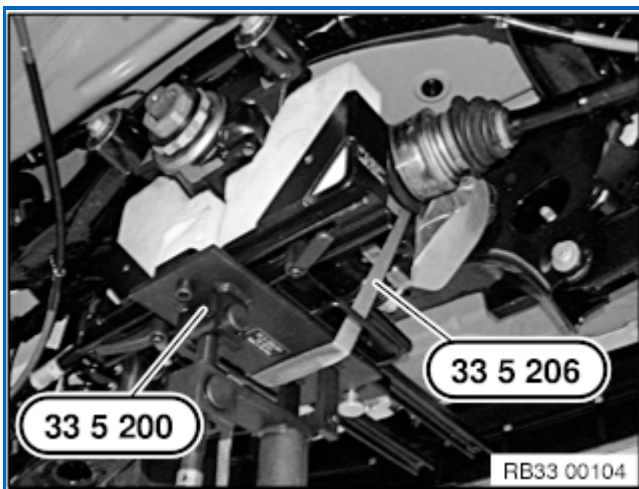
Tightening torque [33 17 2AZ](#).



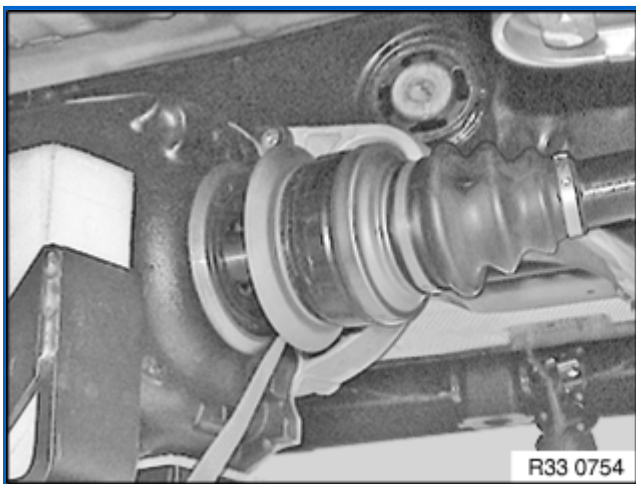
*Installation note:*

Replace nut.

Adhere to the installation sequence at the end of the document in order to prevent distortion of the rear axle final drive during installation and thereby avoid potential complaints about noise.



Lower rear axle final drive with special tool 33 5 200.



Press (tilt) rear axle final drive on right upwards.

Feed out left output shaft in downward direction and tie up.

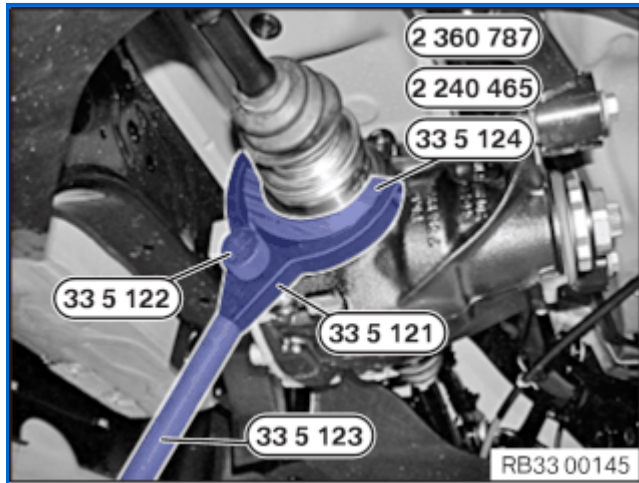
Swing rear axle final drive towards left side.

Right output shaft:

Press out the output shaft from the rear axle differential with jerky movements using the following special tools.

Complete special tools depending on the motorisation.

- N13, B38,



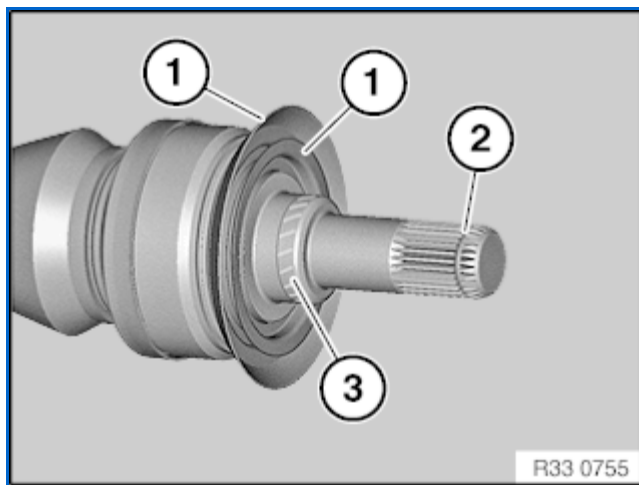
N20B20: 33 5 121, 33 5 122, 33 5 123, 2 240 265

- N47, B47, N55,  
N57: 33 5 121, 33 5 122, 33 5 123, 33 5 124
- N20B28: 33 5 121, 33 5 122, 33 5 123 and  
33 5 124 or 2 360 787

The thrust piece of the screw 33 5 122 must be in contact with the rear axle differential.

Feed out output shaft and tie up.

Remove rear axle final drive.



### Important!

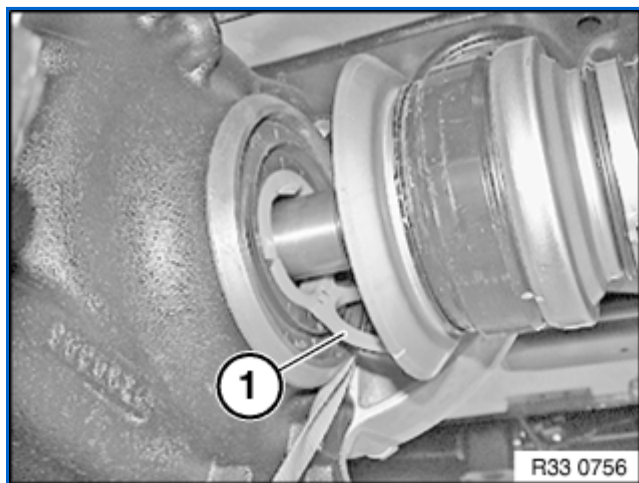
High installation forces indicate that the output shaft spline teeth are damaged or deformed!

Check gearing and replace components if damaged.

Check dust plate (1) for damage, renew if necessary.

Circlip (2) must be renewed!

Coat highlighted contact surface (3) of output shaft with [approved final drive oil](#).

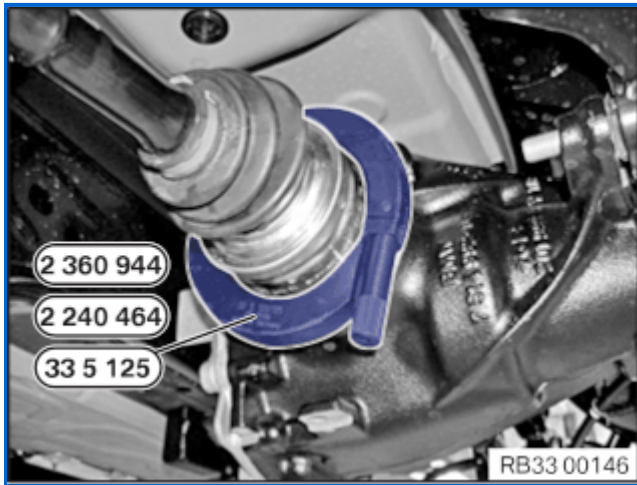


### Installation note:

Insert output shaft into rear axle final drive.

Pull out assembly protection ring at lug (1) until one of the two predetermined breaking points gives.

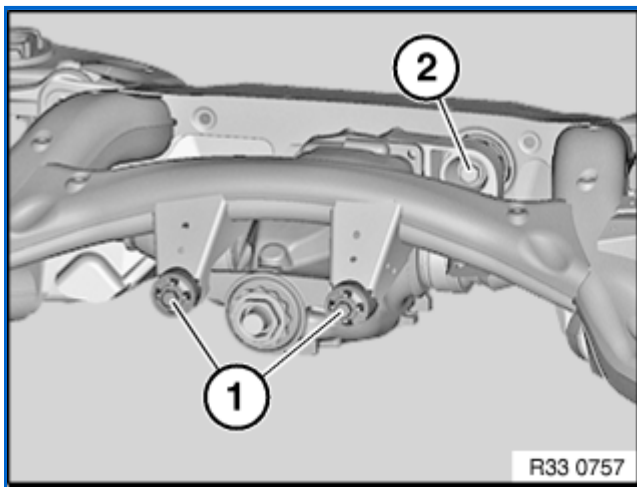
Press the output shaft into the rear axle differential using the following special tools (depending on motorisation) and a rubber mallet.



- N13, B38, N20B20: 2 240 464
- N47, B47, N55, N57: 33 5 125
- N20B28: 33 5 125 or 2 360 944

*Installation note:*

The output shafts must audibly snap in place on the rear axle differential.



**Assembly sequence:**

1. Insert the rear axle final drive into the rear axle support using the workshop jack and special tool 33 5 200.
2. Insert screws (1) (do not tighten).
3. Insert bolt from rear and replace nut (2) (do not tighten down).
4. Release securing strap, lower special tool 33 5 200 and move it away.
5. Tighten down screws (1).  
Tightening torque [33 17 1AZ](#)
6. Tighten nut (2).  
Tightening torque [33 17 2AZ](#)



**After installation:**

- Check [oil level in the rear axle final drive](#), correct if necessary.



# REP-REP-RAF2033-3331\_TILGER Removing and installing/replacing vibration absorber&comma; VIN: XXXXXXXX

ISTA system version	4.1.22.17498	Data version	R3.54	Programming - data
VIN	XXXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07	
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.) -
Mileage	0 km			

33 31 017

Removing and installing/replacing vibration absorber

## Special tools required:

- [2 240 515](#)
- 83 30 2 444 999

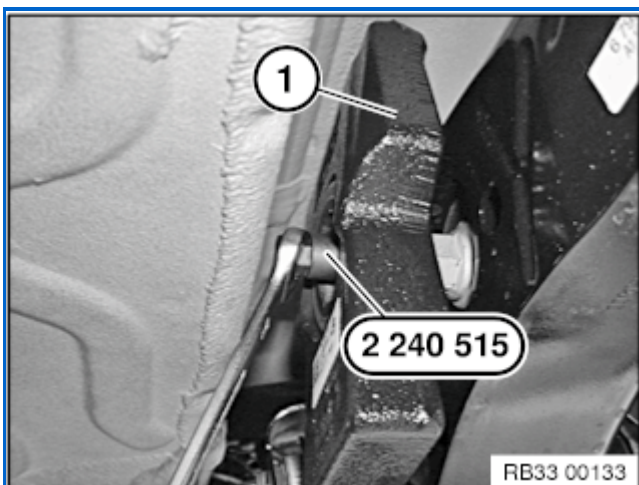


### Attention!

Different vibration absorbers are installed depending on the vehicle equipment and motorisation.

The vibration absorbers have different nominal frequencies depending on the equipment and motorisation.

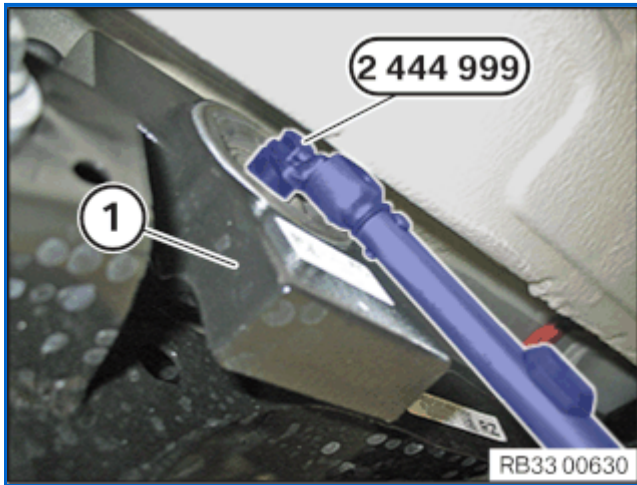
The nominal frequency is noted on the vibration absorber and its observation is mandatory.



Release the screw M8 on the vibration absorber (1) with special tool [2 240 515](#) and ring spanner (AF 13).

Tightening torque [33 17 3AZ](#).

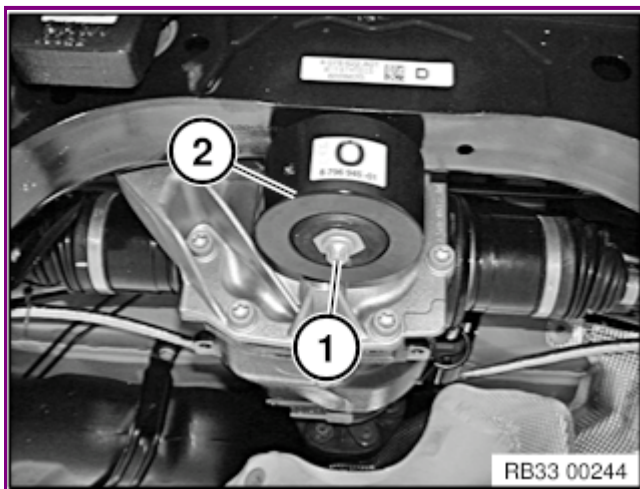
Remove vibration absorber (1).



Release the screw on the vibration absorber with special tool 83 30 2 444 999 and wrench socket.

Remove vibration absorber (1).

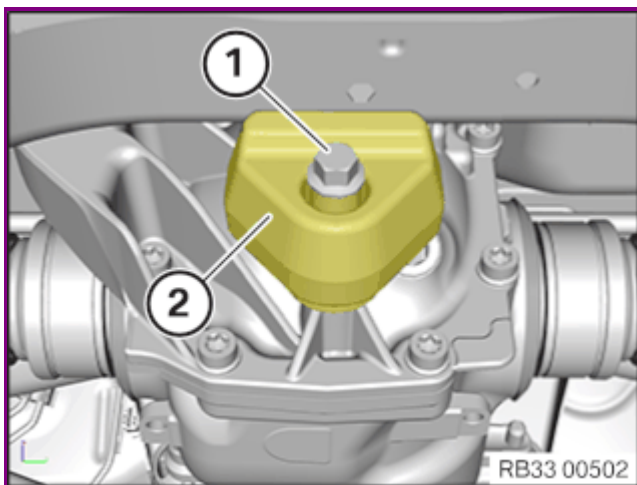
Tightening torque [33 17 7AZ](#).



Loosen screw (1).

Tightening torque [33 17 4AZ](#).

Remove vibration absorber (2).



Loosen screw (1).

Tightening torque [33 17 5AZ](#).

Remove vibration absorber (2).

*Installation note:*

It is mandatory to ensure correct installation position. The flat side of the vibration absorber (2) faces the rear axle support.

**AZD-AZD-AZDMUC3317-F2X\_F3X Rear axle final drive suspension; VIN: XXXXXXXX**

ISTA system version	4.1.22.17498	Data version	R3.54	Programming data	-
VIN	XXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

**33 17 Rear axle final drive suspension**

	Type	Thread	Tightening specifications	Dimension
1AZ Rear differential to rear axle carrier, front	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M12	<a href="#">Follow repair instruction.</a>	100 Nm
2AZ Rear differential to rear axle carrier, rear	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M14	<a href="#">Observe instructions in Repair Manual.</a> Renew nut.	165 Nm
3AZ Vibration absorber to screw connection of rear axle differential, rear	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M8		28 Nm
4AZ Vibration absorber to rear axle support, rear	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M8		19 Nm
5AZ Vibration absorber to rear axle differential	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M12	Renew screw.	100 Nm
6AZ Vibration absorber to screw connection of rear axle differential, rear	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	M10x32	Renew screw.  Jointing torque Angle of rotation	56 Nm 90 °
7AZ Vibration absorber to screw connection of rear axle differential, rear	F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36	Torx E14 M 10x32	Renew screw.  Jointing torque Angle of rotation	56 Nm 90 °

**AZD-AZD-AZDMUC2611-02 Propeller Shaft. complete&comma; VIN: XXXXXXXX**

ISTA system version	<b>4.1.22.17498</b>	Data version	<b>R3.54</b>	Programming	- data
VIN	<b>XXXXXXX</b>	Vehicle	<b>3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07</b>		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	<b>0 km</b>				

**26 11 Propeller Shaft. complete**

	Type	Thread	Tightening specifications	Dimension
1AZ Front flexible disc to transmission output flange ZNS screws and nuts All versions			Replace screws and nuts, jointing torque and angle of rotation must be observed without fail. Tightening via screw	
	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F15 / F16 / F18 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F85 / F86 / F18 PHEV / F15 PHEV / F87 / F30 PHEV	M12-10.9	Jointing torque	55 Nm
			Angle of rotation	90 °
2AZ Front flexible disk to propeller shaft ZNS screws and nuts All versions			Replace screws and nuts, jointing torque and angle of rotation must be observed without fail. Tighten via nut	
	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F15 / F16 / F18 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F80 / F82 / F83 / F85 / F86 / F18 PHEV /	M12-10.9	Jointing torque	55 Nm



	F15 PHEV / F87 / F30 PHEV		Angle of rotation	90 °
3AZ Flexible disc, rear, to transmission drive flange (inserted)  ZNS screws and nuts  All versions			Replace screws and nuts, jointing torque and angle of rotation must be observed without fail.  Tightening via screw	
	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F18 / F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F36 / F85 / F86 / F18 PHEV	ASA M12-10.9	Jointing torque	55 Nm
			Angle of rotation	90 °
4AZ Flexible disc, rear, to propeller shaft  ZNS screws and nuts  All versions			Replace screws and nuts, jointing torque and angle of rotation must be observed without fail.  Tighten via nut	
	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F18 / F20 / F21 / F22 / F23 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F85 / F86 / F18 PHEV	M12-10.9	Jointing torque	55 Nm
			Angle of rotation	90 °
5AZ Centre mount to body	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F15 / F16 / F18 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F85 / F86 / F18 PHEV / F15 PHEV / F87 / F30 PHEV			19 Nm
6AZ Input flange, rear axle final drive (insert nut to	F01 / F02 / F03 / F06 / F07 / F10 / F11 / F12 / F13 / F18		Replace insert nut! Allow min. 2 hours hardening time	

propeller shaft/three-hole flange)			Jointing torque Loosen the insert nut through 90° Tightening torque	120 Nm  85 Nm
	F15 / F16 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F35 / F36 / F85 / F86 PHEV / F15 PHEV / F87 / F30 PHEV			85 Nm
7AZ Front propeller shaft to transfer box/front axle differential	F01 / F02 / F06 / F07 / F10 / F11 / F12 / F13 / F15 / F16 / F20 / F21 / F22 / F23 / F25 / F26 / F30 / F31 / F32 / F33 / F34 / F36 / F85 / F86 / F15 PHEV		Renew screws, jointing torque and angle of rotation must be observed without fail.  Jointing torque Angle of rotation	    20 Nm 45 °
8AZ Constant velocity joint propeller shaft to rear axle differential	F06 M6 / F10 M5 / F12 M6 / F13 M6	M10	Replace screws and shims, jointing torque and angle of rotation must be observed without fail. Jointing torque Angle of rotation	   20 Nm 90 °
9AZ Front propeller shaft to rear propeller shaft/constant velocity joint	F06 M6 / F10 M5 / F12 M6 / F13 M6	M12x1		60 Nm

**AZD-AZD-AZDMUC1831-F30N55 Exhaust pipe with catalytic converter / complete system&comma; VIN: XXXXXXXX**

ISTA system version	<b>4.1.22.17498</b>	Data version	<b>R3.54</b>	Programming	- data
VIN	<b>XXXXXXX</b>	Vehicle	<b>3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07</b>		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	<b>0 km</b>				

**18 31 Exhaust pipe with catalytic converter / complete system**

	Type	Thread	Tightening specifications	Dimension
1AZ Exhaust system to catalytic converter	N55 / N55 Hybrid		Renew V-band clamp.	30 Nm
2AZ Front pipe with catalytic converter to turbocharger	N55 / N55 Hybrid	M8 x 40	Renew V-band clamp.	13 Nm
3AZ Reinforcement plate to body	N55 / N55 Hybrid	M8		28 Nm
4AZ Exhaust turbocharger with exhaust manifold to cylinder head	N55 / N55 Hybrid	M7		13 Nm
5AZ Clamp between centre silencer and rear silencer	N55 / N55 Hybrid	M10		45 Nm
6AZ Clamp between front pipe and centre silencer	N55 / N55 Hybrid	M10		45 Nm
7AZ Actuator drive for exhaust system to exhaust system	N55 / N55 Hybrid	M6		9 Nm

**SBS-ANL-SBS1996-330196149\_A3 3.0 Hypoid oils for front axle differential with disc-type limited slip differential (M models and with SA209 self-locking differential)&comma; VIN: XXXXXXXX**

ISTA system version	4.1.22.17498	Data version	R3.54	Programming data	-
VIN	XXXXXXX	Vehicle	3'/F30/SEDAN/335i/N55/AUTO/US/LL/2014/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

Enclosure 3 of SI 33 01 96 (149), issue 06/2006, update 01/2016

**3.0 Hypoid oils for front axle differential with disc-type limited slip differential (M models and with SA209 self-locking differential)**

As well as for final drive unit with electro-hydraulic limited-slip differential

**Standard version: 1 Series: E82/M Coupé**

**Standard version: 3-Series: E90/M3, E92/M3, E93/M3**

<i>Trade name</i>	<i>BMW part number</i>	<i>BMW part number</i>	<i>Container size</i>
	China	Rest of the world	
BMW differential oil	83 21 2 155 243	83 22 2 282 583	3x500 ml
SAF-XJ + FM Booster			

**Standard version: 2-Series:**

**F87/M2**

**Standard version: 3-Series:**

**Z3M, Z3 with SA209, E36 with SA209, E36/M3, E46/M3, E85/M Roadster, E86/M Coupé, F80/M3,**

**Standard version: 4-Series:**

**F82/M4 Coupé, F82/M4 GTS, F83/M4 Cabrio**

**Standard version: 5-Series:**

**E34/M5, E39/M5, E60/M5, E61/M5, F10/M5**

**Standard version: 6-Series:**

**E63/M6, E64/M6, F06/M6, F12/M6, F13/M6**

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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BMW MSP/A synthetic differential oil	83 22 9 405 462	1000 ml (Trade Unit)
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BMW MSP/A synthetic differential oil	83 22 2 365 988	12x1 litre
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BMW MSP/A synthetic differential oil 83 22 9 407 871

208-litre barrel

Specific Hypoid oils released by name

<i>Trade name</i>	<i>Manufacturer/Supplier</i>
Castrol SAF-XJ	Castrol
Castrol Syntrax Limited Slip 75W-140	Castrol
MOTUL HYPO SYNT LS	Motul
Mobil transmission oil VS 500	Mobil
Aral transmission oil BS-LSX	Aral
BP Energear SHX-ZR	BP
Avia Hypoid 75W--140 LSX	AVIA
Agip HLZ	Agip
FINA PONTONIC MLK	Fina
Shell transmission oil ZLS-BMW	Shell
Wintershall gear fluid BMS Plus	Schmierstoffraffinerie Salzbergen GmbH
Westfalen Fugo BMS	Westfalen AG

*Note:*

The above oils satisfy the demands required of lifetime oils.

Oil change intervals are given in the vehicle-specific inspection sheets.

Before opening the container, "mix" the transmission oil to distribute the additives evenly through the oil.

### General information about final-drive transmission oils

Final-drive and hypoid transmission oil must fulfil the following requirements for handling high loads as arise at the tooth flanks of the hypoid gear:

- high load-carrying capacity
- high degree of immunity from seizure
- good protection against wear
- optimum frictional behaviour and temperature stability

- compatibility with sealing materials
- resistance to ageing

A brand-name hypoid transmission oil already possesses these and other characteristics thanks to its high concentration of EP agents (EP = Extreme Pressure).

### **Oil additives**

All final drives are designed in such a way that there is absolutely no need to use oil additives. BMW is totally against the use of such additives. We will also accept no liability for any consequences resulting from the use of additives.

*Date: 07/2015*