

SBS-ANL-SBS1996-240596143_A14 14.0 Automatic transmission fluid for ZF-transmission
 GA8HP45Z / GA8HP50Z / GA8HP70Z / GA8HP90Z / GA8P70H / GA8P75H /
 GA8HP75Z, 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

Enclosure 14 of SI 24 05 96 (143), issue 02/2010; update 07/2015

14.0 Automatic transmission fluid for ZF-transmission GA8HP45Z / GA8HP50Z / GA8HP70Z /
 GA8HP90Z / GA8P70H / GA8P75H / GA8HP75Z

Note:

The automatic transmissions have a life-time oil filling. These transmissions require no oil change for their entire service life.

The approved lifetime fluid must be used after repairs on the transmission or transmission oil cooler.

Attention!

The lifetime oil must not be mixed with or replaced by other types of automatic transmission fluid as this will cause transmission failure.

Exception:Shell ATF oil L12108 may be mixed with ATF-3.

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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ATF oil Shell L12108*	83 22 2 152 426	20 litres
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*Can be substituted by the lifetime oil specified below.

<i>Trade name</i>	<i>BMW part number</i>	<i>Container size</i>
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ATF-3+	83 22 2 289 720	1 litre
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The lifetime fluids ATF-3 and ATF-3+ can be mixed with each other.

Date: 07/2015

SWZ-SWZ-2405614 Socket wrench; 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

2405614 Socket wrench

Minimum set: Mechanical tools
AM

**Note:**

For opening and closing the oil filler plug. Contour-graphic silhouette foil is included in delivery specification. Further information on the contour-graphic silhouette foil can be found in service information 00 22 13 (969).

Storage Location: A75

SI number: 01 33 15 (305)

REP-REP-RAF2051-5147491 Removing and installing/replacing rear underbody protection, 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

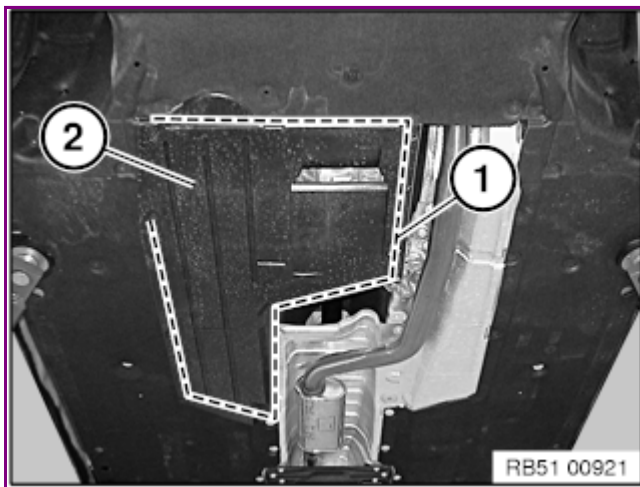
51 47 491

Removing and installing/replacing rear underbody protection



Note:

Illustration only an example. There may be differences in detail in the case of other models.



Release screws along line (1) and remove underbody protection (2).

Tightening torque [51 75 1AZ](#)

REP-REP-RAF3024-2411014_N55 Removing and installing/sealing or replacing transmission oil sump (GA8HP45Z), 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/2015/07	
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.) -
Mileage	0 km			

24 11 014

Removing and installing/sealing or replacing transmission oil sump (GA8HP45Z)



Important!

- Do not let skin come in contact with transmission oil and do not inhale fuel vapours.
- Wear protective gloves.
- Ensure adequate ventilation.



Important!

Remove transmission oil sump only after it has cooled down.

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

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

Failure to comply with this requirement will result in serious damage to the automatic transmission!

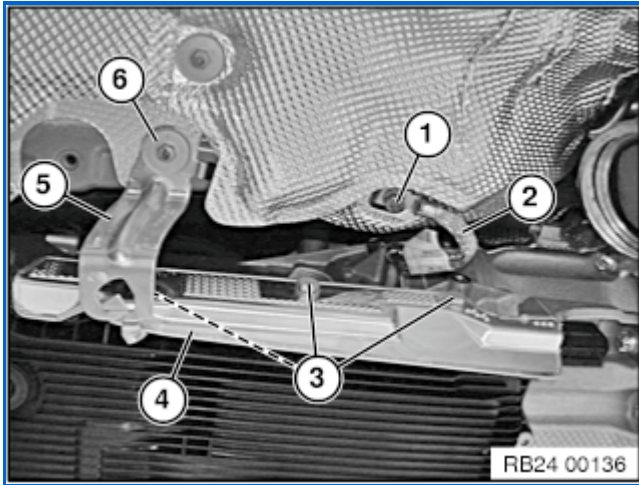
Installation note:

The transmission oil sump must be renewed **every** time it is removed.



Necessary preliminary tasks:

- Remove rear [underbody protection](#).

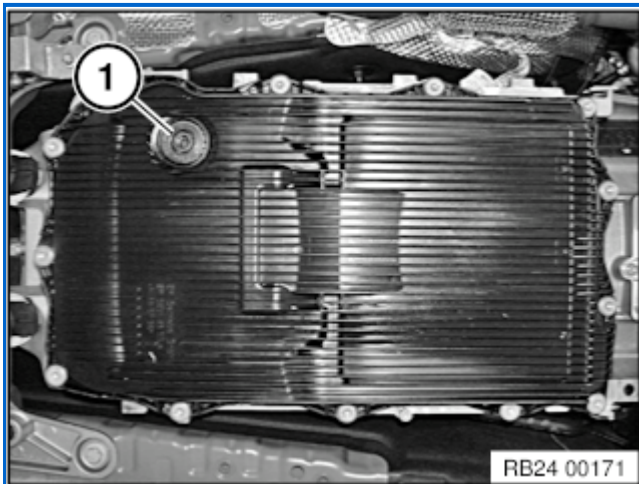


Release nut (6) and remove holder (5).

Release screws (3).

Tightening torque [24 11 6AZ](#).

Remove heat shield (4).



Remove oil drain plug (1).

Tightening torque [24 11 2AZ](#).

Drain automatic transmission oil.



Recycling:

Catch and dispose of escaping transmission oil.

Observe country-specific waste disposal regulations.

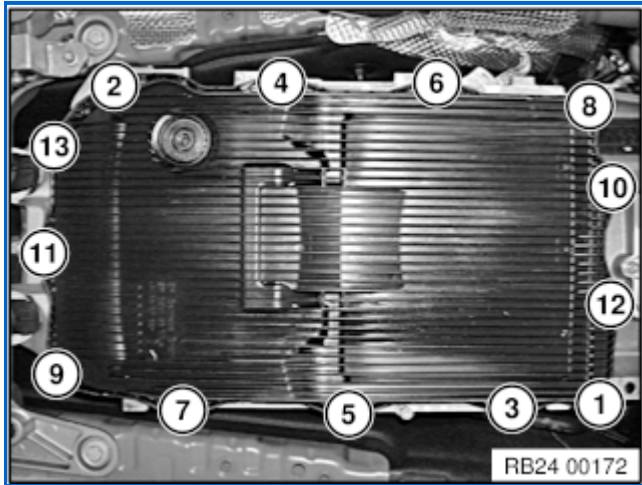
Unscrew all bolts.

Remove transmission oil sump.

Installation note:

Renew transmission oil sump.

Clean the contact surface of the transmission oil sump on the transmission.



Installation note:

Insert new screws until screw heads make contact.
Tighten down screws in sequence 1...13 to specified torque and angle of rotation.
Tightening torque [24 11 4AZ](#).

Important!

Aluminium screws/bolts must be replaced **every** time they are released.

Jointing torque and angle of rotation must be observed without fail (**risk of damage**).

REP-REP-RAF0724-0011500 GA8HP70ZChecking/topping up oil level in automatic transmission (GA8HP45Z,GA8HP50Z,GA8HP90Z), 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

00 11 500

GA8HP70ZChecking/topping up oil level in automatic transmission (GA8HP45Z,GA8HP50Z,GA8HP90Z)

Special tools required:

- [2 405 614](#)



Important!

- Do not let skin come in contact with transmission oil and do not inhale fuel vapours.
- Wear protective gloves.
- Ensure adequate ventilation



Important!

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

To set the correct level, it is **mandatory** that the service function "Transmission control unit: oil adjustment" is performed using the diagnosis system.

Failure to comply with this requirement will result in serious damage to the automatic transmission.

Conditions for the oil adjustment:

- Initial condition: Transmission oil temperature 30 °C to 40 °C
- Final condition: Transmission oil temperature 40 °C to 50 °C

Important! Transmission GA8HP70Z with N57 engine from 03/2011!!

Precondition for oil adjustment

- Transmission oil temperature 30°C to maximum 40°C.

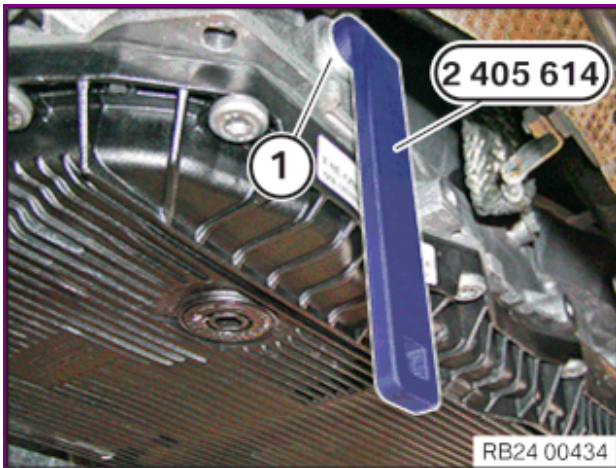
(The transmission oil temperature **must** be maintained. This will increase the oil quantity in the transmission.)



Performing oil-level adjustment:

An oil-level adjustment is necessary for certain fault code entries in the automatic transmission and after repair (e. g. mechatronic replacement, converter replacement, transmission replacement).

- Connect diagnosis and information system.
- Service function (transmission control unit: Oil adjustment) call up
- Carry out oil level check in accordance with instructions



Adding transmission oil:

Stand vehicle on a level surface and secure against rolling off.

Release oil filler screw (1) by means of special tool [2 405 614](#).

Add automatic transmission fluid according to instructions in the BMW diagnosis system.

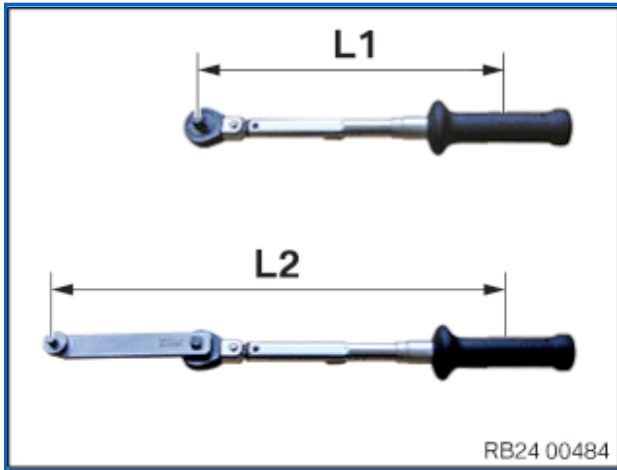
Important!

When using special tool [2 405 614](#), the setpoint torque deviates from the torque to be set.

Conversion of setpoint torque -> torque to be set:

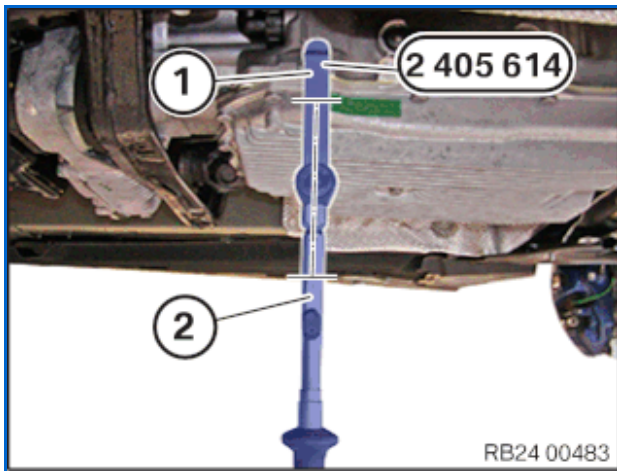
(setpoint torque x L1) : L2 = torque to be set.

L1 = Length of handle centre to the ratchet head.



L2 = Length of the handle centre to the action point of special tool.

Desired tightening torque: [24 11 3AZ](#)



Parts: Replace oil filler plug and sealing ring.

Note: Special tool (1) and torque wrench must be aligned in a line at the time of tightening.

Tighten down oil filler plug using

1. Special tool [2 405 614](#).
2. Torque wrench

AZD-AZD-AZDMUC5175 Underbody panelling, 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

51 75 Underbody panelling

	Type	Thread	Tightening specifications	Dimension
1AZ Underbody panelling on body	F-series	Bolt, non-metric thread		3 Nm
		Screw M6		8,8 Nm
		Nut		2.5 Nm
2AZ Wheel arch cover to body	F-series	Screw		3 Nm
		Nut		2,6 Nm
3AZ Underbody protection front	F18 National-market version	M8x33	Replace screw	28 Nm
		M10x35	Replace screw	28 Nm

AZD-AZD-AZDMUC2411-01 Transmission housing, transmission oil sump, 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/2015/07		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	0 km				

24 11 Transmission housing, transmission oil sump

	Type	Thread	Tightening specifications	Dimension
1AZ Transmission oil sump	GA6HP19Z / GA6HP26Z / GA6HP32Z	M6		10 Nm
2AZ Oil drain plug	GA6HP19Z / GA6HP26Z / GA6HP32Z / GA8HP45Z / GA8HP50 / GA8HP70Z / GA8P70H / GA8P75H / GA8HP75Z	M16x1.5 M24x1 M18x1	Plastic oil sump	8 Nm
	S63 GA8HP75Z			12 Nm
3AZ Oil filler plug	GA6HP26Z / GA6HP32Z	M30x1.5		80 Nm
	GA6HP19Z / GA6HP26Z / GA6HP32Z / GA8HP45Z / GA8HP50 / GA8HP70Z / GA8P70H / GA8HP75Z / GA8HP90Z / GA8P75H / GA8P75HZ	M18x1.5	Setpoint torque : Calculation of adjusting torque: see: Repair instructions 00 11 500	35 Nm
4AZ Transmission oil sump	GA8HP45Z / GA8HP50 / GA8HP70Z / GA8P70H / GA8HP75Z / GA8HP90Z / GA8P75H / GA8P75HZ	M6	Replace aluminium screws; jointing torque and angle of rotation must be observed without fail. 1. Jointing torque 2. Angle of rotation	4 Nm 45 °
			Steel screws	10 Nm
5AZ Oil drain plug	GA8HP90Z	M10		12 Nm
6AZ Heat shield on gearbox	GA8HP45Z / GA8P70Z / GA8P75H	M8		19 Nm
	GA8HP45Z	M6		8 Nm
7AZ Ground strap to body and transmission	GA8HP45Z / GA8HP50 / GA8HP70Z / GA8P70H / GA8HP75Z / GA8P75H	M8		19 Nm