



# Service Information

## Oil change kit for ZF 5HP/6HP automatic transmission



### CAUTION

**Risk of burns due to contact with hot oil.  
Slight to moderate injury possible.**

- ⇒ Wear protective goggles.
- ⇒ Wear protective gloves.
- ⇒ Wear protective clothing.

### NOTICE

**Property damage due to electrostatic discharge (ESD) possible.**

- ⇒ Observe ESD protection.
- ⇒ Do not touch the contacts.
- ⇒ Wear conductive workwear.
- ⇒ Use ESD transport.
- ⇒ Use ESD protective packaging.



### NOTICE

**Observe the following instructions to prevent damage to the transmission:**

- Do **not** tow vehicle if transmission is without oil. Observe the vehicle manufacturer specifications.
- For cleaning only use clean, **lint-free** cloths.
- Do **not** start the engine if there is no oil in the transmission.
- Only use the specified **ZF-LifeguardFluid** (Tab. 1).
- Do not use any further additives as they alter the chemical composition of the oil!
- Adjust the oil level in the transmission exactly according to filling regulations. If the oil level is too low, the transmission will be damaged. If the oil level is too high, the excess oil will leak from the transmission through the overflow when heated. The escaping oil can ignite on hot parts (e.g. exhaust system).
- Adhere to the bolting sequence (Fig. 1).
- Observe tightening torques (Tab. 2 - 14).



Before changing the oil: Read instructions carefully. Check which version (A / B / C) applies to the oil change (Table 1).



ZF automatic transmissions are filled with specially developed semi-synthetic oils. At very high operating temperatures, the oil ages faster than under normal conditions. Examples:

- Many trips at high speeds
- Many trips while towing a trailer
- Sporty driving



- Observe service information: 50324 | Guide Sleeve Mechatronics for ZF Automatic Transmission 6HP
- Observe service information: 50638 | Seal Kits for ZF 6HP Automatic Transmissions



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Assignment of Oil change kits									
Kit	Transmission		Oil pan		Oil	Version <sup>4)</sup>			
Art.-No.			①	②	ZF LifeguardFluid	A	B	C	Tab.
1060.298.070 <sup>1)</sup> 1060.298.072 <sup>2)</sup>	5HP19	Alpina	x		5	x			
		BMW	x		5	x			
1060.298.069 <sup>1)</sup> 1060.298.073 <sup>2)</sup>	5HP19 FL	Audi	x		5	x			
		Porsche	x		5	x			
		Skoda	x		5	x			
		Volkswagen	x		5	x			
	5HP19 FLA	Audi	x		5	x			
		Volkswagen	x		5	x			
1058.298.046 <sup>1)</sup> 1058.298.048 <sup>2)</sup>	5HP24	Alpina	x		5	x			
		BMW	x		5	x			
		Jaguar	x		5	x			
		Land Rover	x		5	x			
1058.298.047 <sup>1)</sup> 1058.298.049 <sup>2)</sup>	5HP24 A	Audi	x		5	x			
5931.308.077 <sup>1)</sup> 5961.308.078 <sup>2)</sup>	5HP30	Alpina	x		5	x			
		Aston Martin	x		5	x			
		Bentley	x		5	x			
		BMW	x		5	x			
		Rolls-Royce	x		5	x			
1071.298.033 <sup>1)</sup> 1071.298.038 <sup>2)</sup>	6HP19 / X 6HP21 / X	BMW		x	6			x	3
1071.298.027 <sup>1)</sup> 1071.298.039 <sup>2)</sup>	6HP19 A	Audi			8				
		Volkswagen	x		8			x	4
1068.298.062 <sup>1)</sup> 1068.298.083 <sup>2)</sup>	6HP26	BMW		x	6	x			5
		Ford		x	6	x			
		Hyundai		x	6	x			
		Jaguar		x	6	x			6
		Lincoln		x	6	x			
	6HP26 X	Alpina			x	6	x		
		Aston Martin			x	6	x		
		BMW			x	6	x		7
		Ford			x	6	x		
		Land Rover			x	6	x		8
	6HP28	Alpina <sup>3)</sup>			x	6		x	
		BMW			x	6		x	9
		Jaguar <sup>3)</sup>			x	6		x	
		Wiesmann <sup>3)</sup>			x	6		x	
	6HP28 X	Alpina			x	6		x	
		BMW <sup>3)</sup>			x	6		x	10
		Land Rover			x	6		x	
	6HP32	Bentley			x	6	x		
		BMW			x	6	x		11
Rolls-Royce				x	6	x			
1068.298.061 <sup>1)</sup> 1068.298.084 <sup>2)</sup>	6HP26 X	BMW	x		6	x			12
		Lincoln	x		6	x			
	6HP32	BMW	x		6	x			
1068.298.054 <sup>1)</sup> 1068.298.085 <sup>2)</sup>	6HP26 A61	Audi	x		6	x			13
		Bentley	x		6	x			13
1084.298.013 <sup>1)</sup> 1084.298.014 <sup>2)</sup>	6HP28 AF	Audi	x		8		x		14

Tab. 1: Assignment of Oil change kits

① Metal

② Plastic

<sup>1)</sup> Oil change kit with oil

<sup>2)</sup> Oil change kit without oil

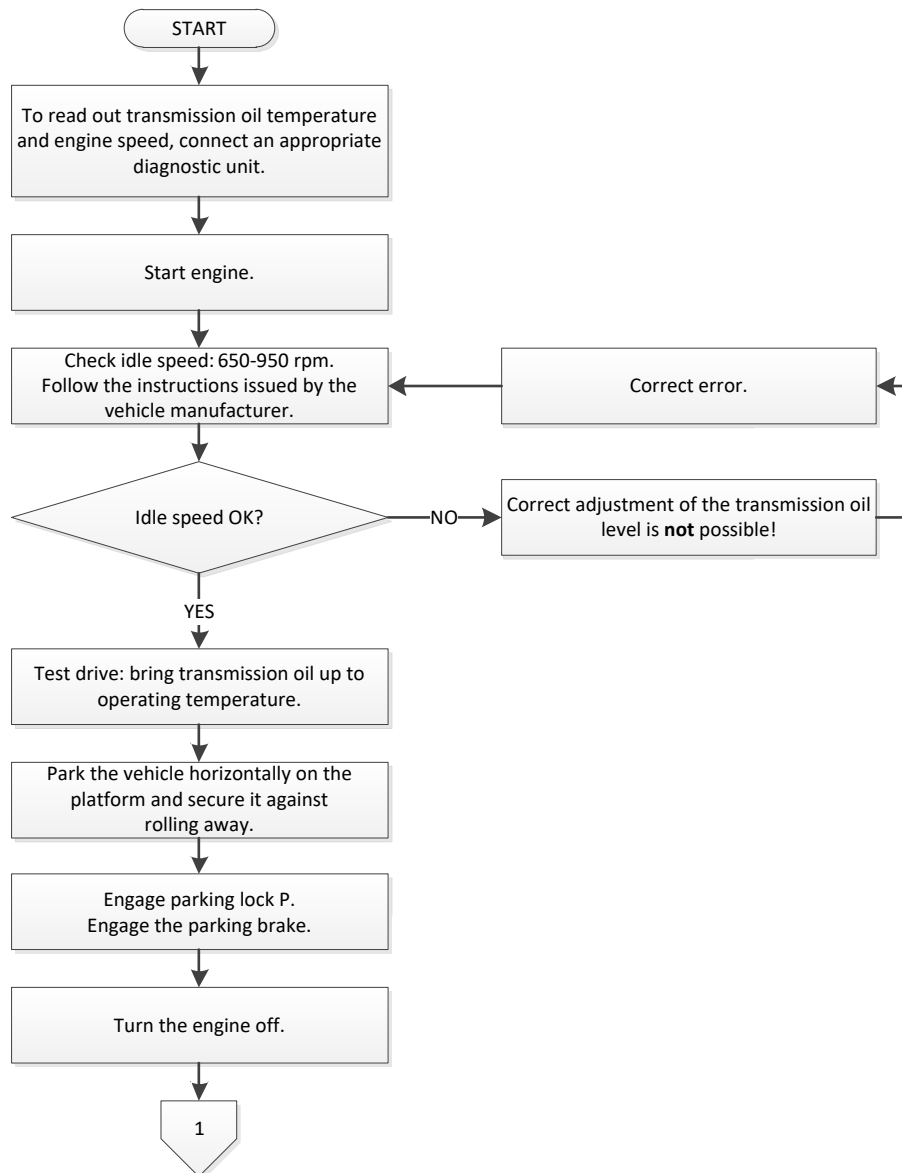
<sup>3)</sup> For version with thermostat valve: The transmission oil temperature must reach at least 75°C during the test drive after an oil change (thermostat valve opens). After the test drive, allow the transmission to cool and check the oil level again at 35°C oil temperature.

<sup>4)</sup> Select procedure for oil change, see Flowchart, page 5



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## Oil change kit for ZF 5HP/6HP automatic transmission





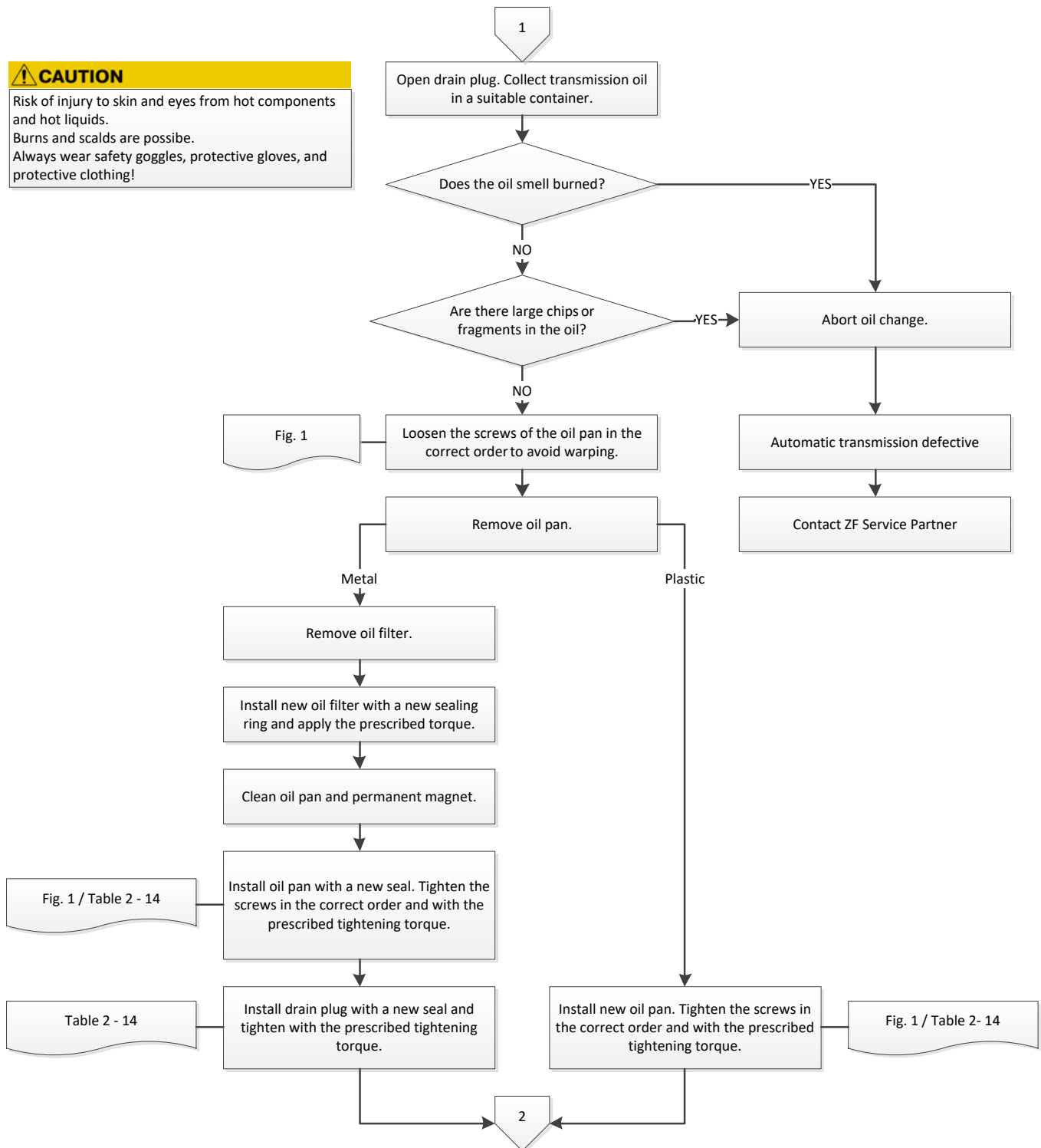
# Service Information

## Oil change kit for ZF 5HP/6HP automatic transmission



### CAUTION

Risk of injury to skin and eyes from hot components and hot liquids.  
Burns and scalds are possible.  
Always wear safety goggles, protective gloves, and protective clothing!





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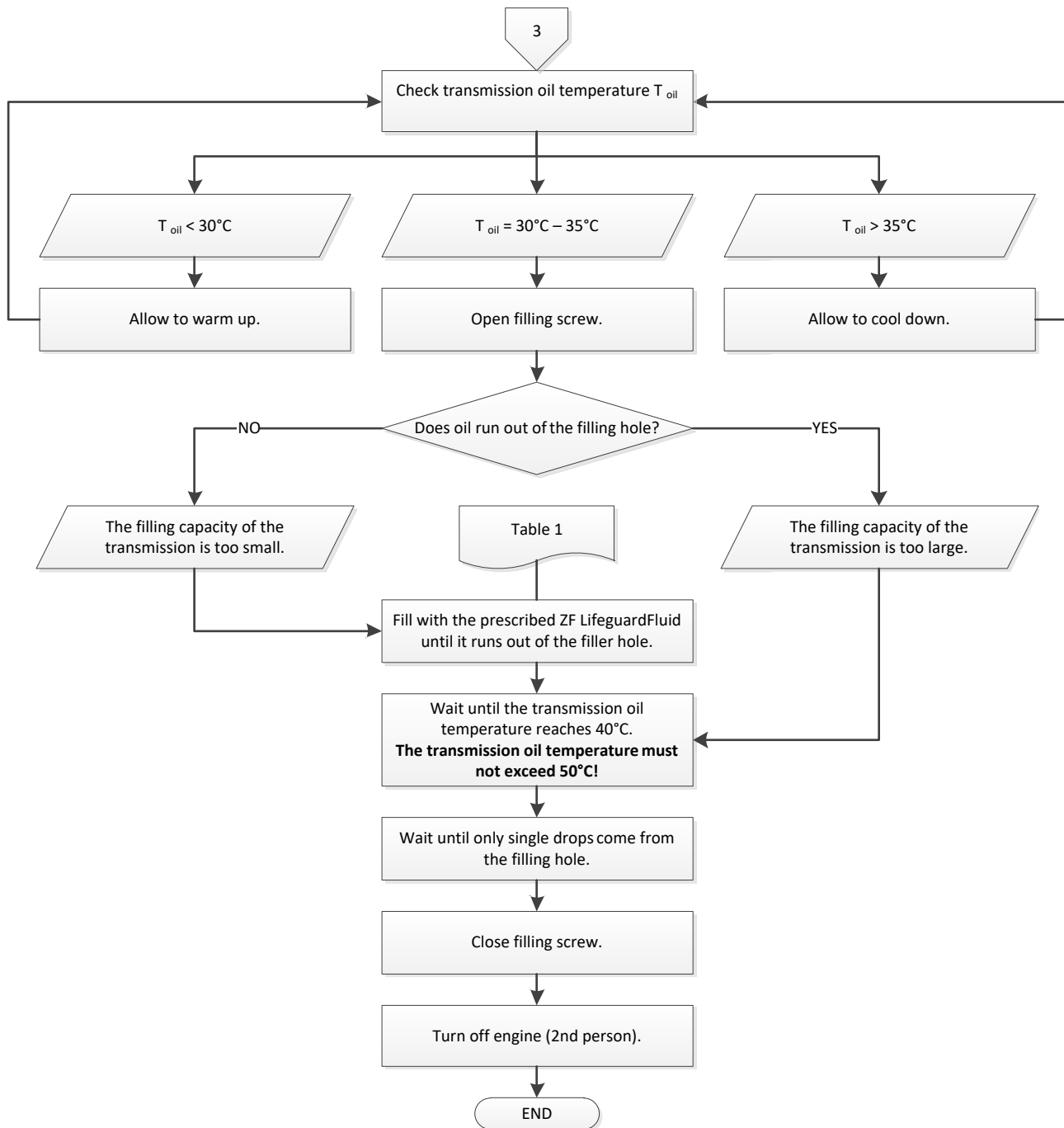
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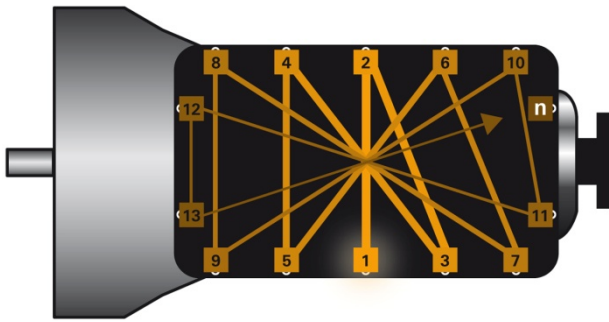
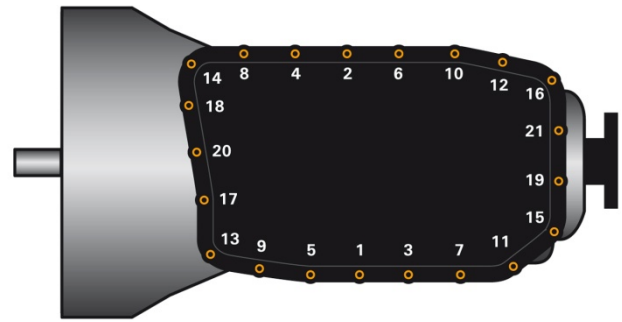


Fig 1: Schematic representation of the bolting sequence



Example: Bolting sequence



Loosen or tighten oil pan bolts: crosswise from the center outwards (Fig. 1).  
First screw in the bolts by hand, then tighten in the correct order with the correct torque. Follow the instructions issued by the vehicle manufacturer.

	Oil pan		
	Aluminium	Plastic	Steel plate
Material	Aluminium	Plastic	Steel plate
Tightening torque	4 Nm + 45°	10 Nm	12 Nm
Oil filter	Separate part	Integrated in oil pan	Separate part

Tab. 2: Tightening torque

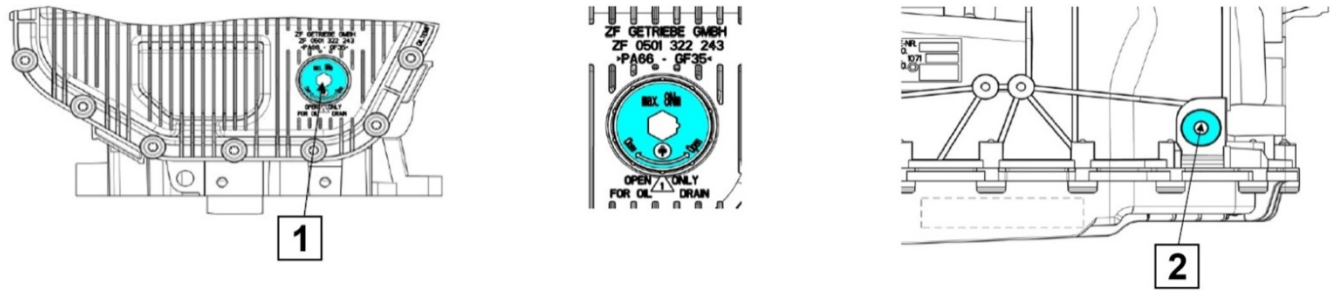


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## Oil change kit for ZF 5HP/6HP automatic transmission



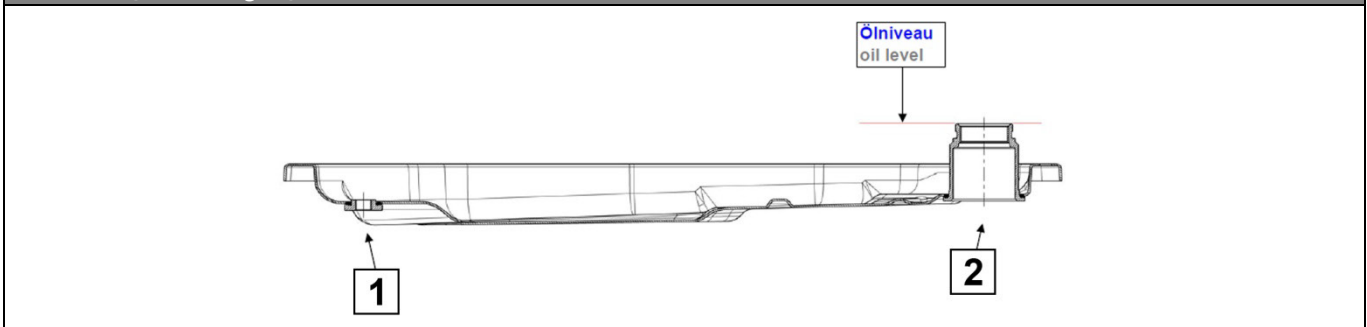
### 6HP19 / 6HP19 X / 6HP21 / 6HP21 X (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 3: 6HP19 / 6HP19 X / 6HP21 / 6HP21 X (BMW)

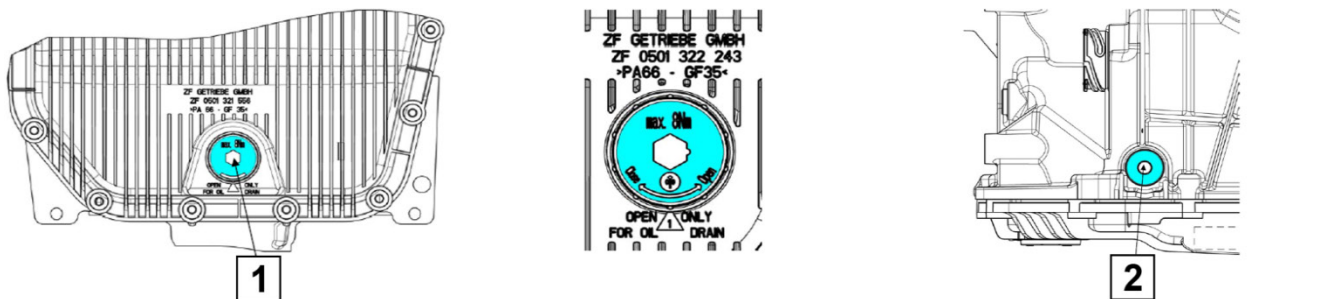
### 6HP19 A (Volkswagen)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 10 x 1	M 30 x 1,5
Hexagon socket	5 mm	17 mm
Tightening torque	12 Nm ± 1,2 Nm	80 Nm ± 8 Nm

Tab. 4: 6HP19 A (Volkswagen)

### 6HP26 (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 5: 6HP26 (BMW)



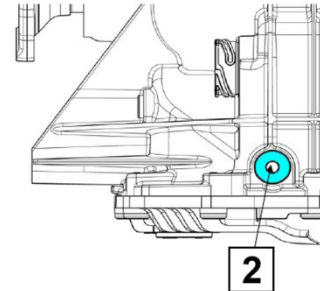
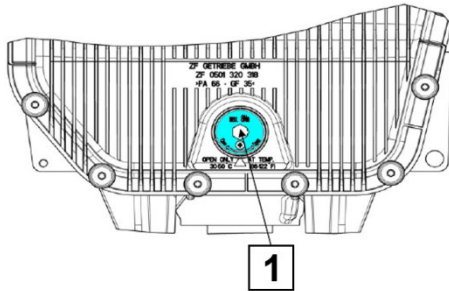


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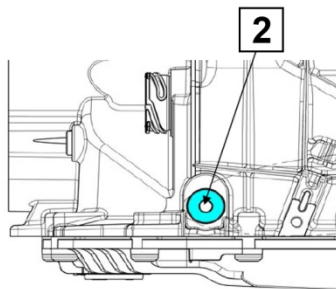
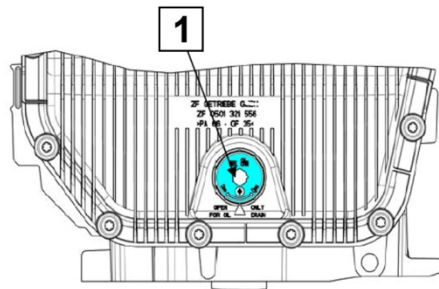
### 6HP26 (Jaguar)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 6: 6HP26 (Jaguar)

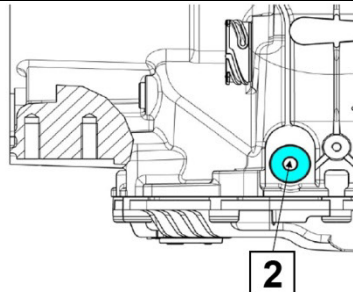
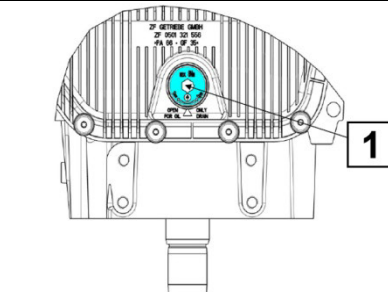
### 6HP26 X (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 7: 6HP26 X (BMW)

### 6HP26 X (Land Rover)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 8: 6HP26 X (Land Rover)

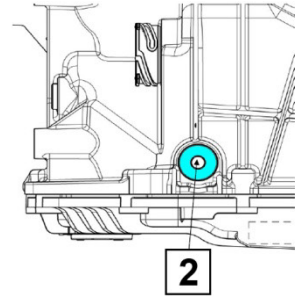
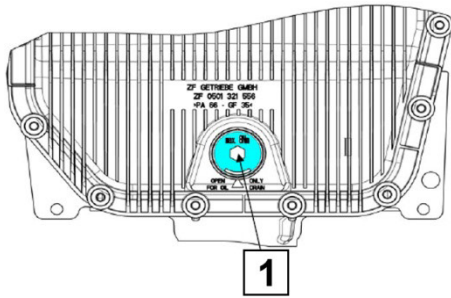


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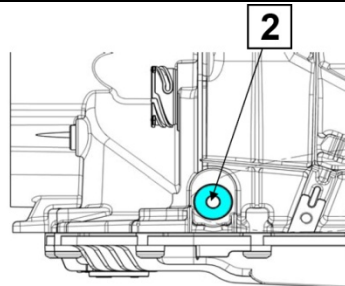
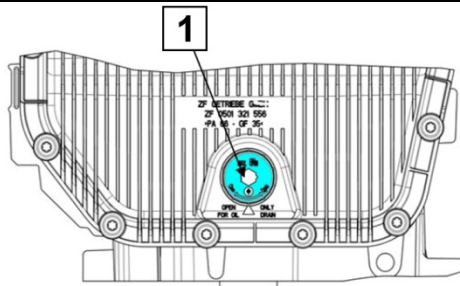
### 6HP28 (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 9: 6HP28 (BMW)

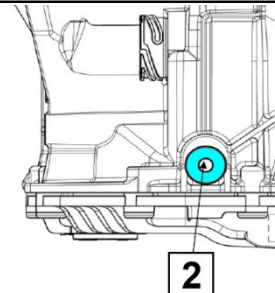
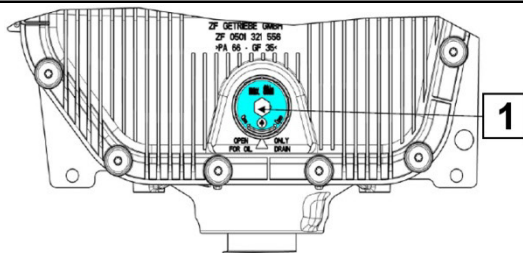
### 6HP28 X (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 10: 6HP28 X (BMW)

### 6HP32 (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 24 x 1	M 18 x 1,5
Hexagon socket	10 mm	8 mm
Tightening torque	8 Nm	35 Nm ± 3,5 Nm

Tab. 11: 6HP32 (BMW)

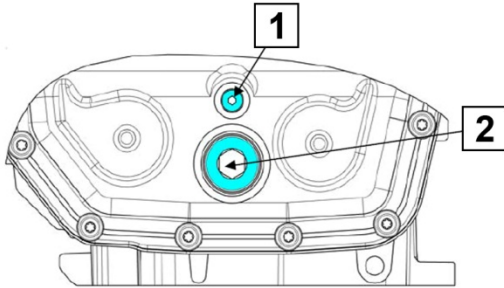


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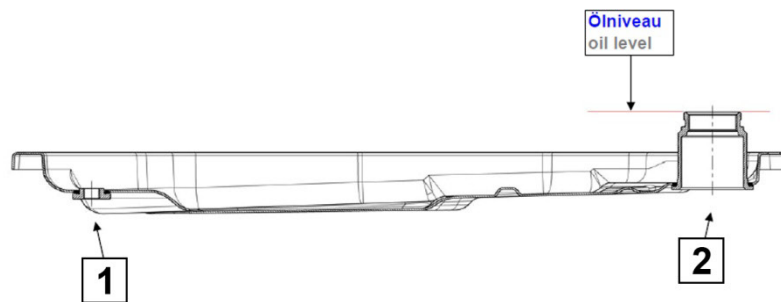
### 6HP26 X (BMW)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 10 x 1	M 30 x 1,5
Hexagon socket	5 mm	17 mm
Tightening torque	12 Nm ± 1,2 Nm	80 Nm ± 8 Nm

Tab. 12: 6HP26 X (BMW)

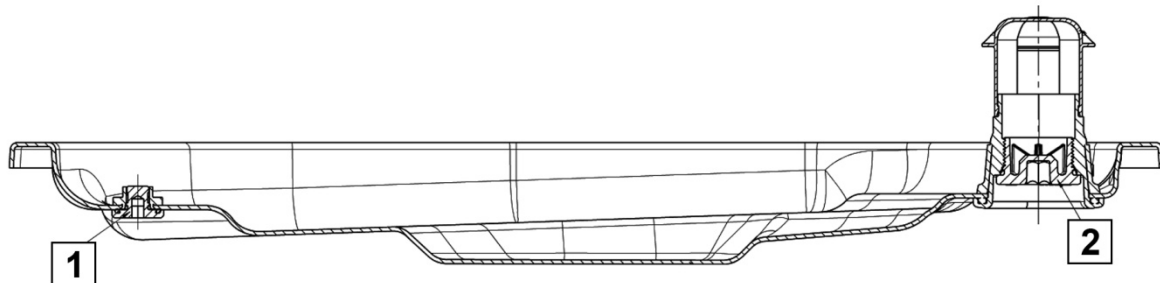
### 6HP26 A61 (Audi / Bentley)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 10 x 1	M 30 x 1,5
Hexagon socket	5 mm	17 mm
Tightening torque	12 Nm ± 1,2 Nm	80 Nm ± 8 Nm

Tab. 13: 6HP26 A61 (Audi / Bentley)

### 6HP28 AF (Audi)



	(1)	(2)
	Drain plug	Filler plug
Dimensions	M 30 x 1,5	M 18 x 1,5
Hexagon socket	10 mm	5 mm
Tightening torque	8 Nm	12 Nm ± 1,2 Nm

Tab. 14: 6HP28 AF (Audi)