

REPAIR INSTRUCTIONS

TraXon

Stage 1-2

Maintenance, Diagnosis, Component Replacement

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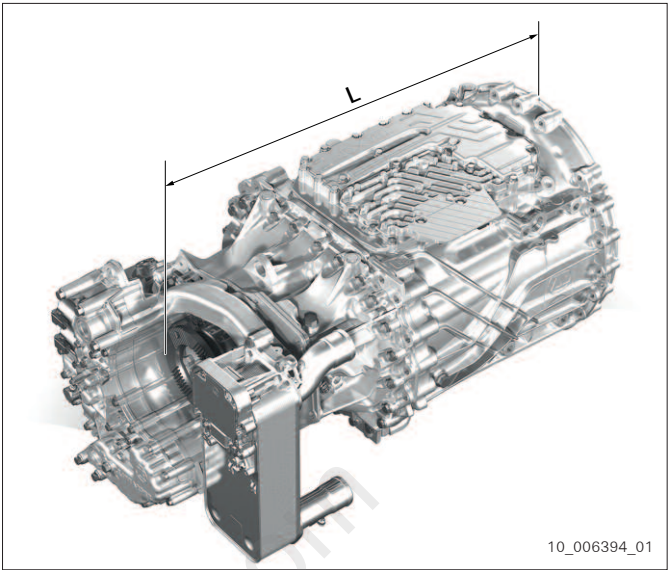
TRUCKS, BUSES



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Bus Transmission Overview

The TraXon transmission system is equipped with a INTARDER for use in buses.



TraXon bus transmission data

Installation length (L) [mm]	Approx. oil quantity for initial filling in liters	Approx. oil quantity for oil change in liters	Oil grade in accordance with ZF List of Lubricants TE-ML	Weight from [kg] without transmission oil	Weight from [kg] with transmission oil
878	22.5	19	see type plate	335	355

Oil Filter Change

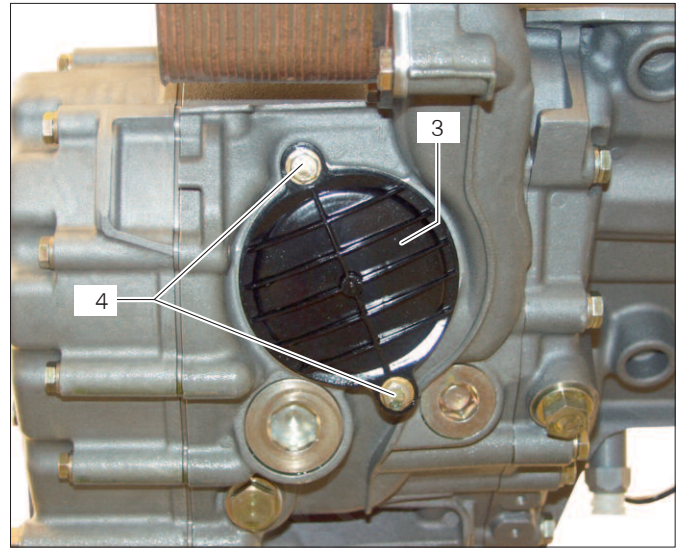
Drain oil before oil filter change (see *Chapter entitled Draining Oil*).

 Use a new oil filter for each oil change.

CAUTION

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

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



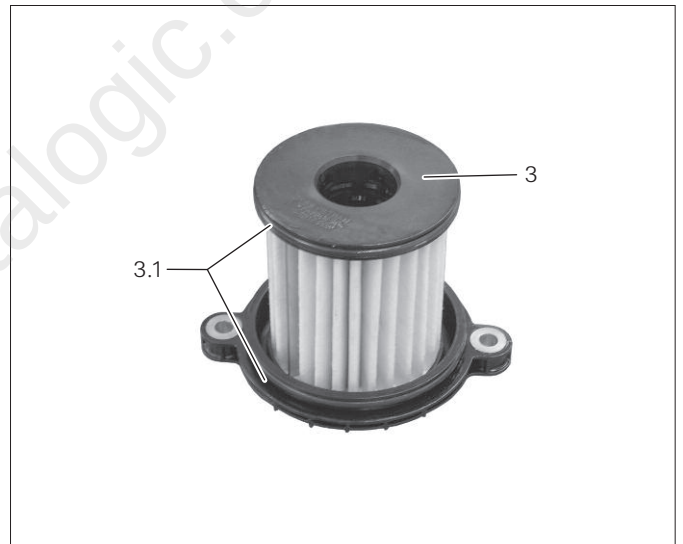
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1. Remove two screws **(4)** from the suction filter **(3)**.

 There is residual oil in the Intarder housing!

2. Pull suction filter **(3)** out of the Intarder housing.
3. Grease O-rings **(3.1)** on the new suction filter **(3)**.
4. Insert new suction filter **(3)** into the Intarder housing.
5. Fasten the suction filter **(3)** with two screws **(4)**.

Tightening torque: **23 Nm**



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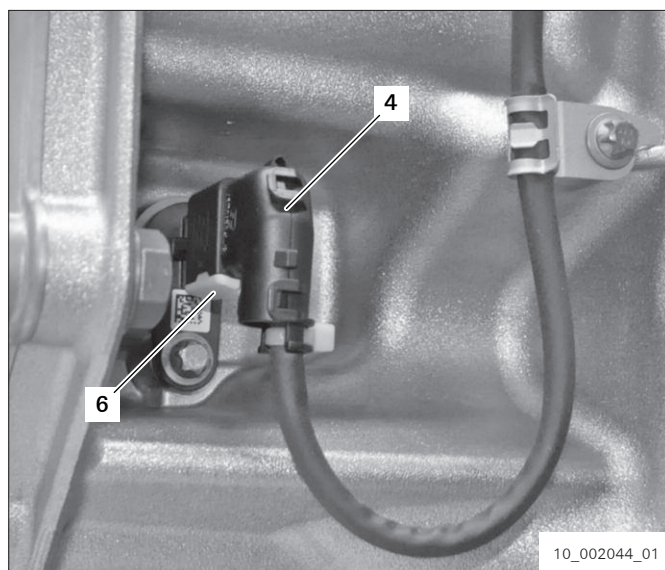
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- Assemble the socket connector **(3)** in a strain-relieved way.
- The locking slide **(6)** can only be closed after the socket connector has been put on the counterpiece (mating plug) until the pressure point is reached.

Insert the socket connector **(4)** into the speed sensor.

Close locking slide **(6)**.



Removing the Selector Actuator

 Comply with ESD protection (refer to Chapter entitled ESD Protection).

1 Remove the transmission control (refer to Chapter entitled Transmission Control).

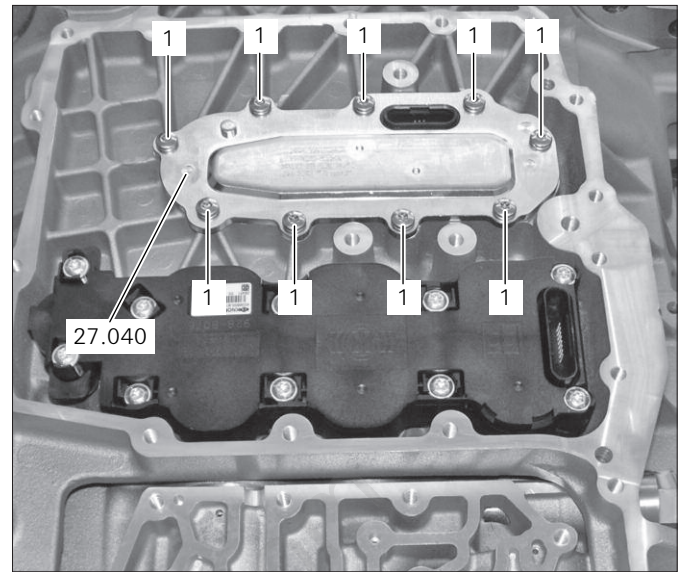
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 Do not use a cordless screwdriver or impact wrench.

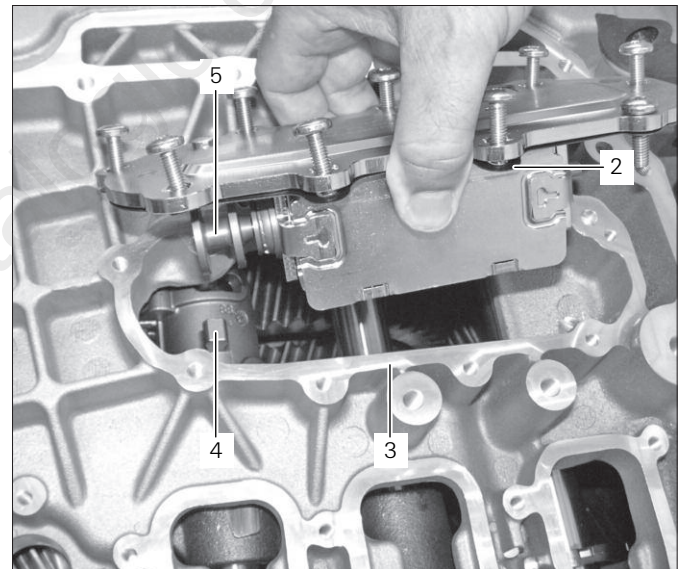
Loosen nine Torx screws **(1)** on the selector actuator. The Torx screws cannot be removed, they are attached to the selector actuator by means of a loss-prevention device.

3 Remove selector actuator **27.040** and seal **(2)**. The seal **(2)** is attached to the selector actuator by a loss-prevention device.

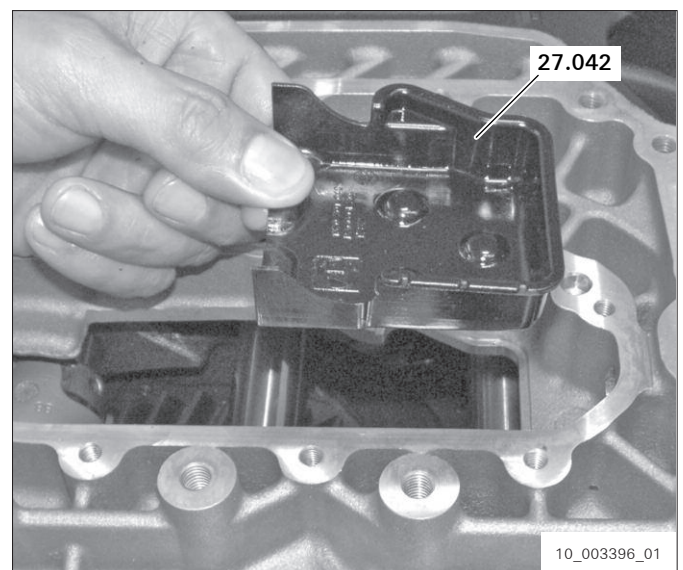
4 The splash protection **27.042** is only installed on model range 16.
Remove splash protection **27.042**.



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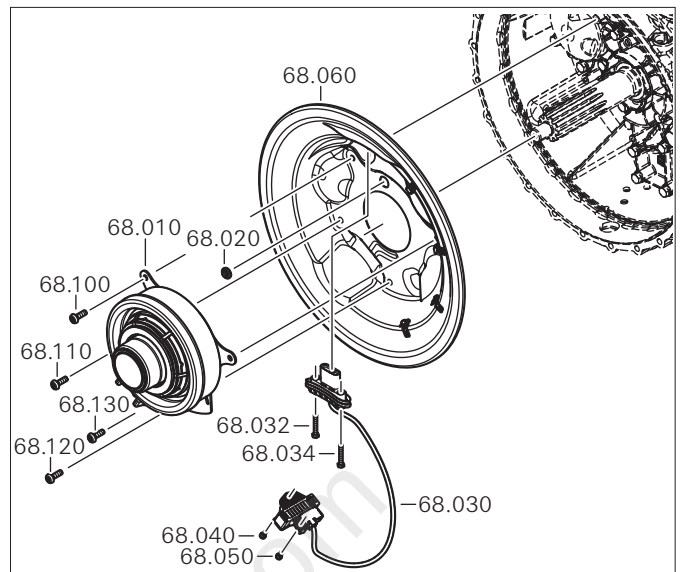


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Model range 16

Removing the ConAct

68.010	ConAct (clutch actuation unit)
68.020	Sealing ring
68.030	Sensor (2)
68.032	Hexagon screw (3)
68.034	Hexagon screw (3)
68.040	Cap screw (1)
68.050	Cap screw (1)
68.060	Housing cover
68.100	Torx screw (4)
68.110	Torx screw (4)
68.120	Torx screw (4)
68.130	Torx screw (4)

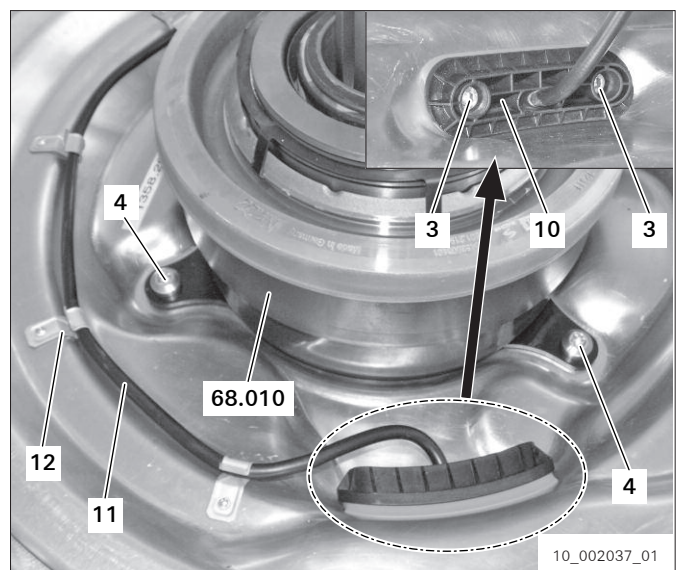


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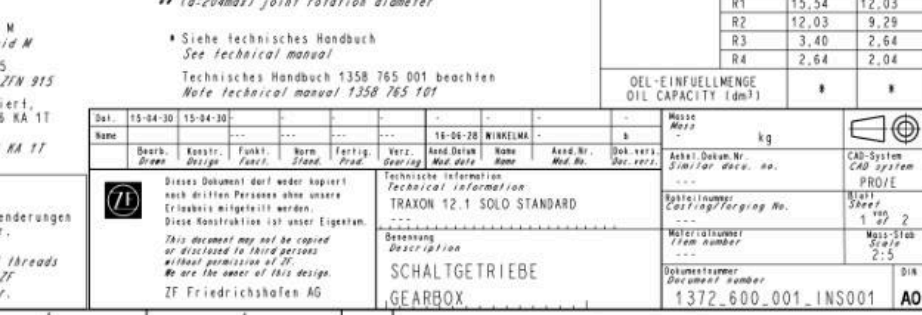
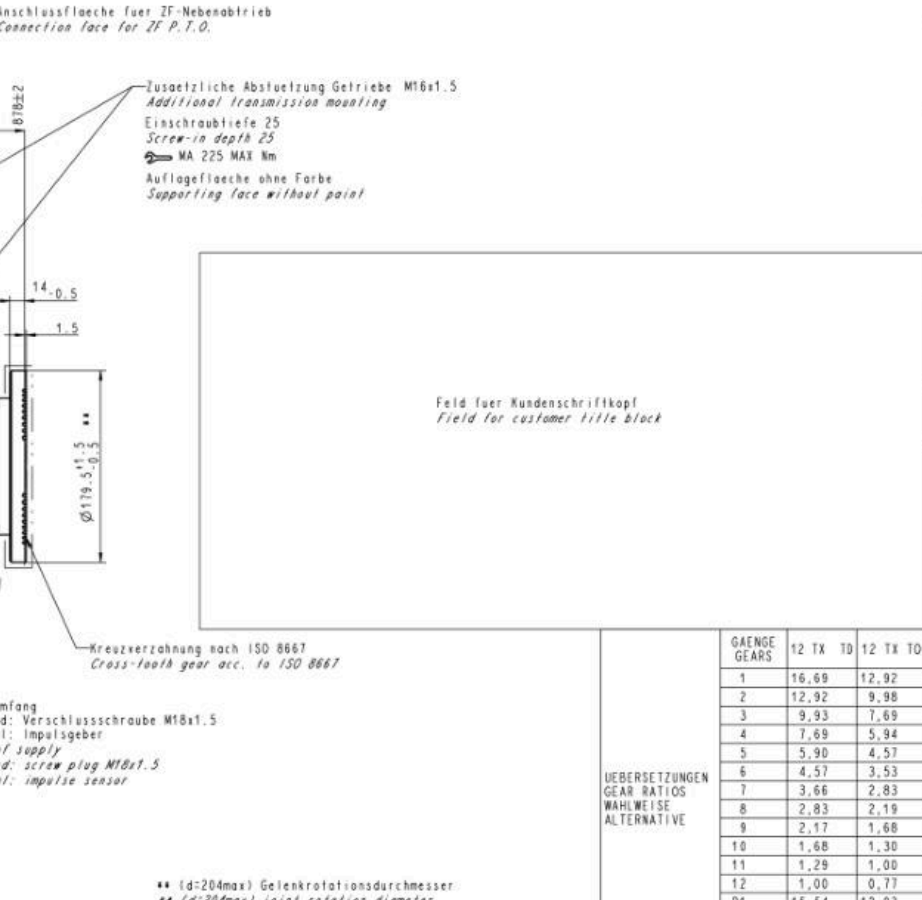
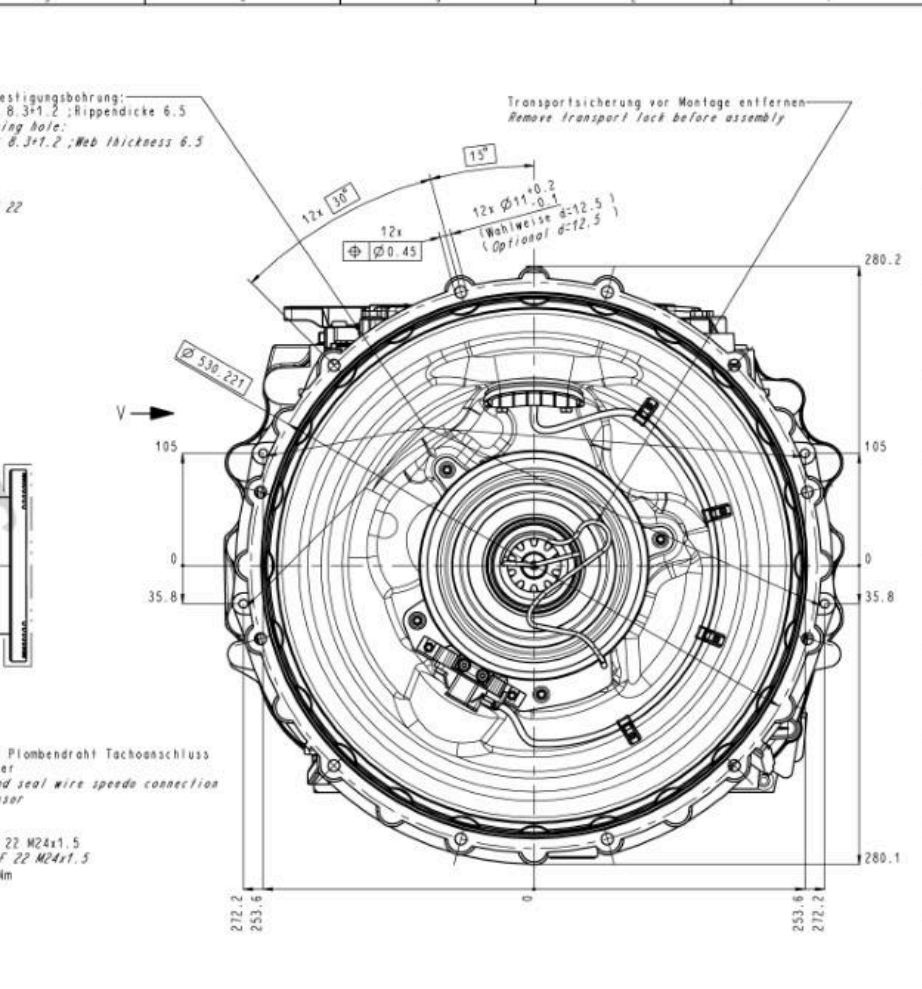
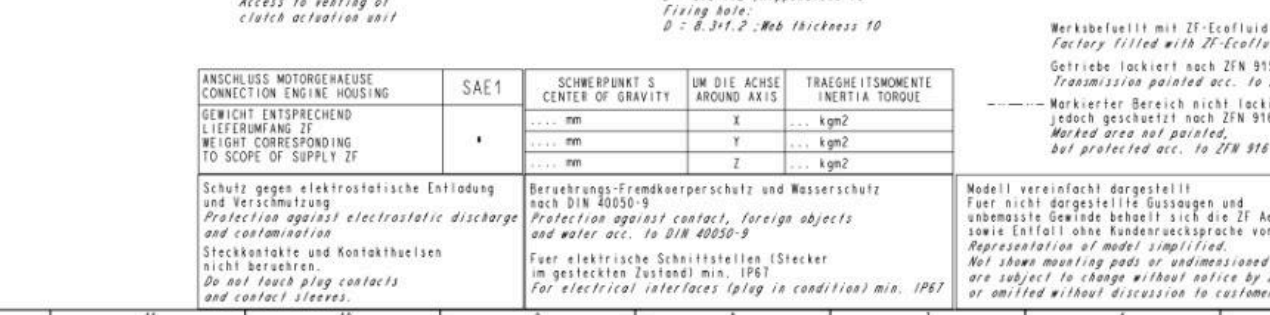
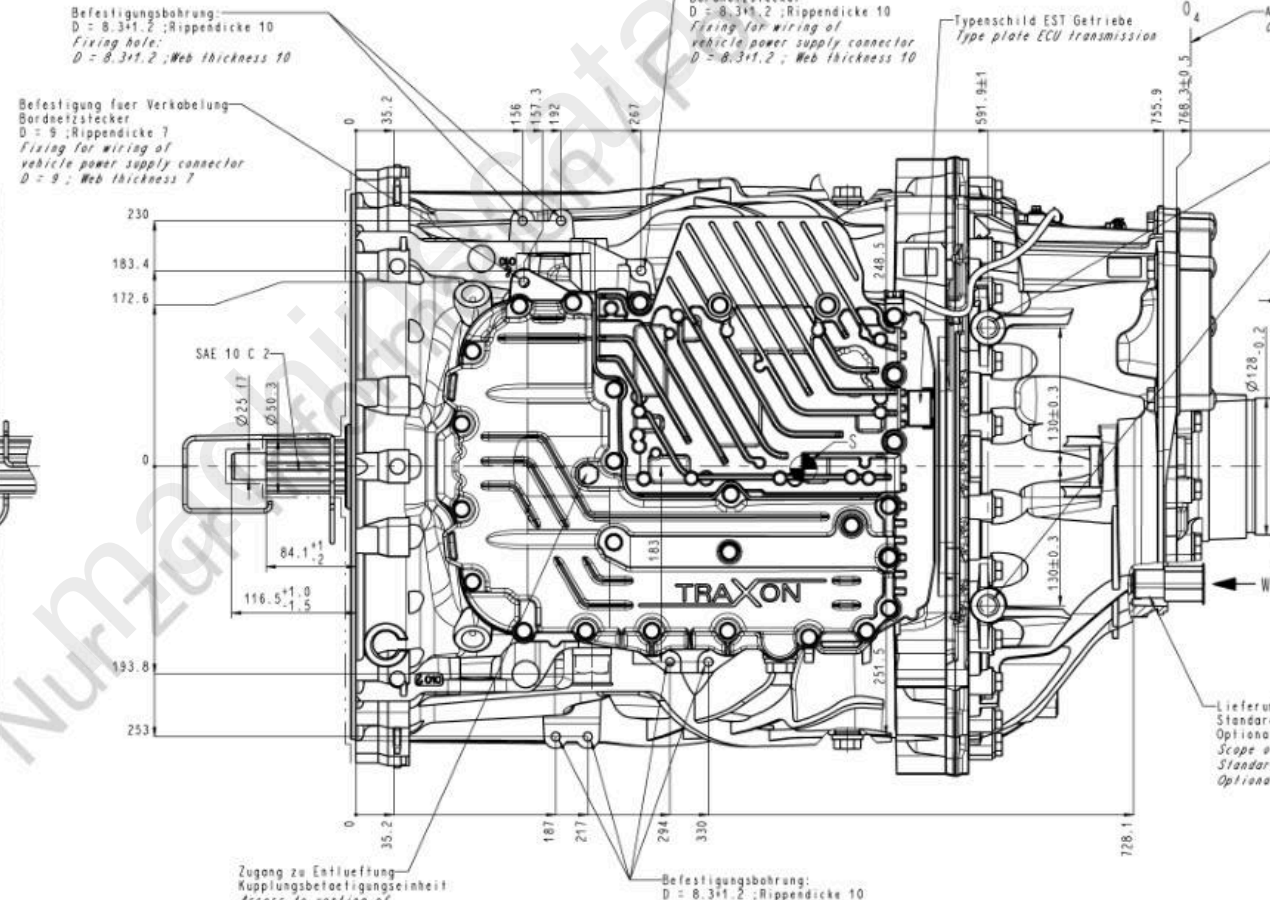
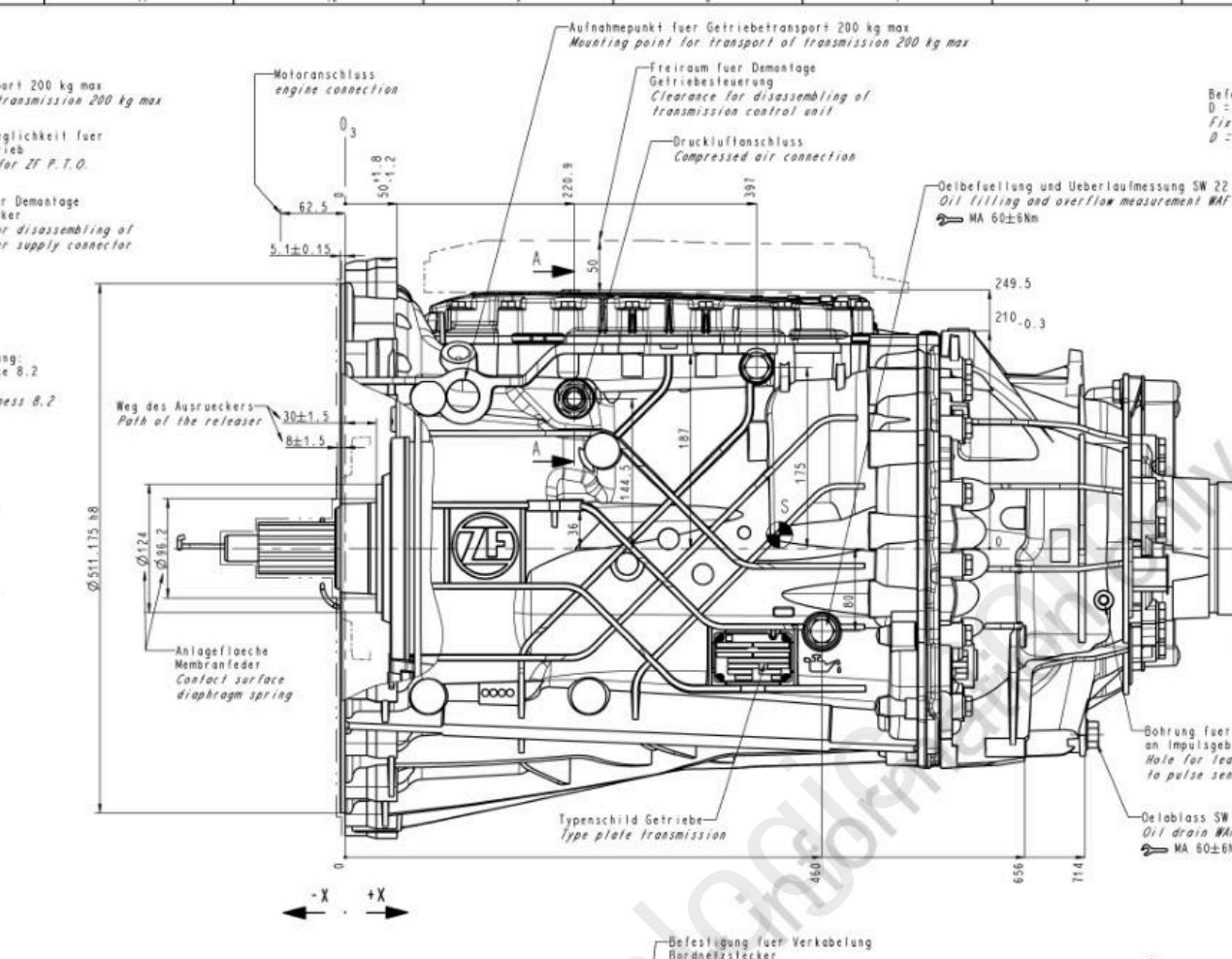
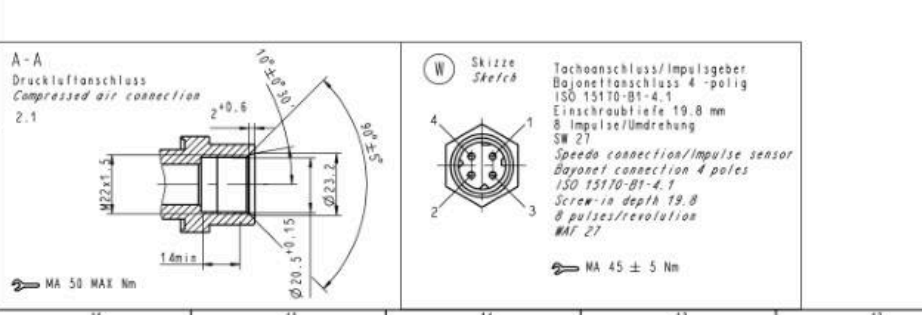
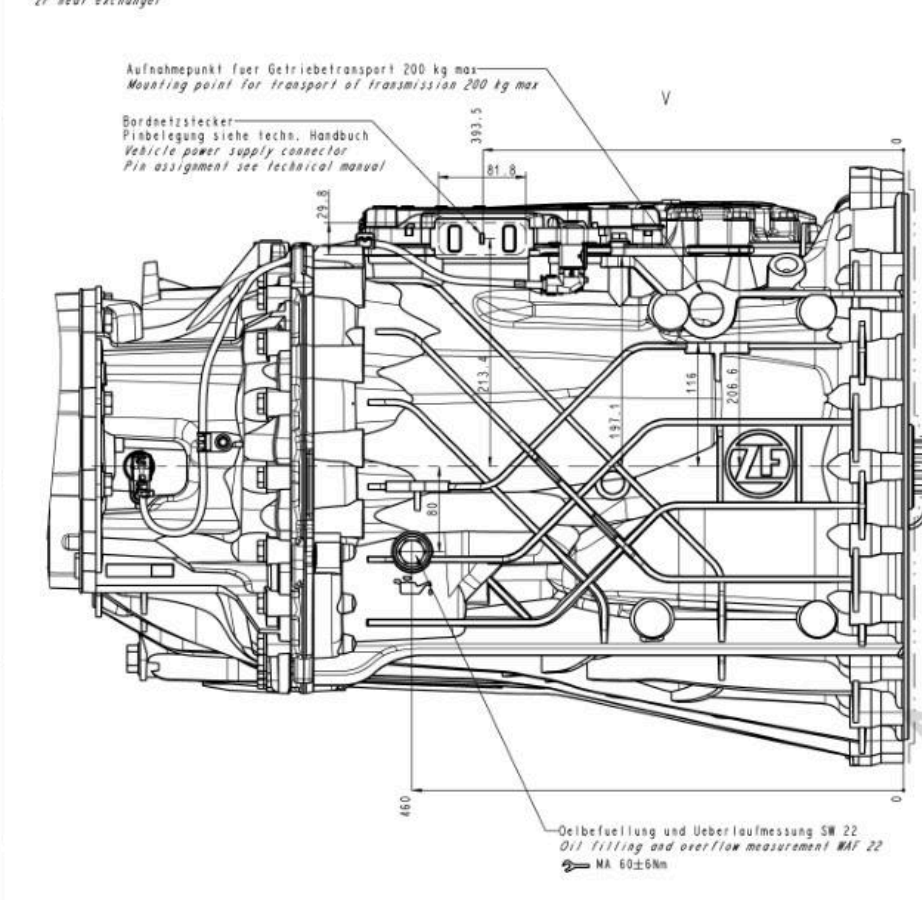
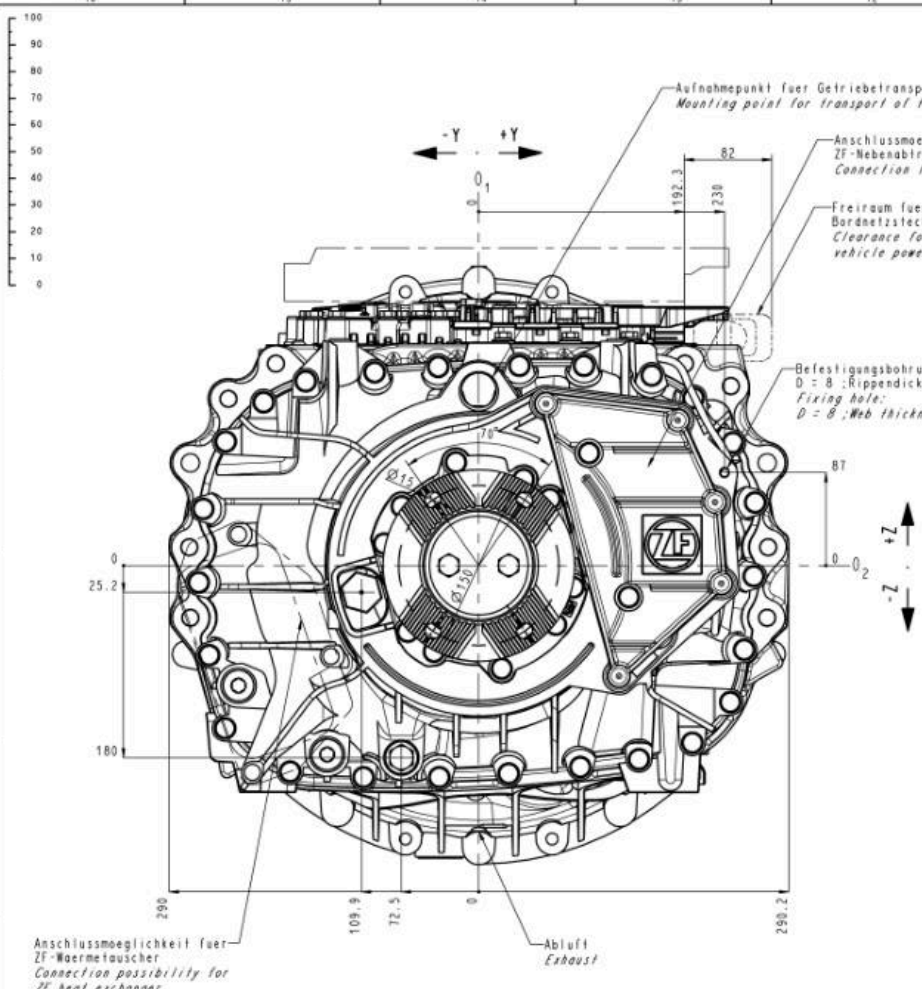
Requirement:

- ConAct is bled. In case of doubt, bleed the ConAct once again (see Chapter entitled *Bleeding the ConAct*).

- Remove cable (11) from the cable clips (12).
- Remove two screws (3) from the sensor connector (10).
- Pull out sensor connector (10).
- Remove four M8 Torx screws (4) from the ConAct 68.010.
- Lift off the ConAct 68.010.



Index	Date of issue	Chapter	Initiator	Comment
d	2017-05	All	TUQG	Bus application added
		Safety	TTQS	New
		Instructions for Repair	TTQS	New
		Product Designation	TTQS	New
		ESD Protection	TTQS	Changed
		Bus Transmission Overview	TUQG	New
		Maintenance	TTQS	Changed
		Bleeding the ConAct	TTQT	Changed
		Transmission Control	TTQT	Changed
		Valve block	TTQT	Changed
		Sensor module	TTQT	Changed
		Selector actuator	TTQS	Changed
		Heat exchanger	TTQT	New
		Compressed-air connection	TTQT	Changed
		Removing the ConAct	TTQT	Changed
		Output flange	TTQS	Changed



Full Version Available

ZF TraXon Transmission Service Manual

ZF TraXon transmission service manual with repair instructions for the valve block, sensors, ConAct and heat exchangers. English PDF, 114 pages.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/zf-traxon-transmission-service-manual/>

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