

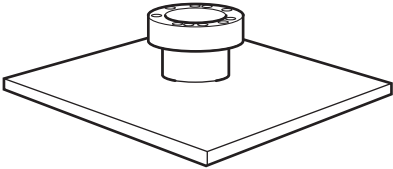
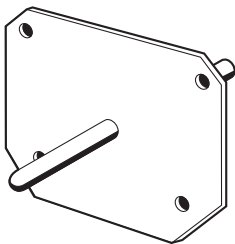
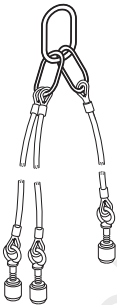
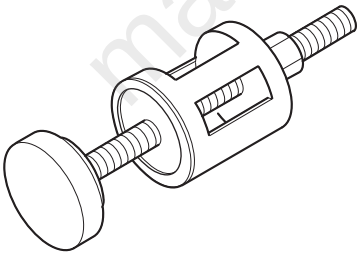
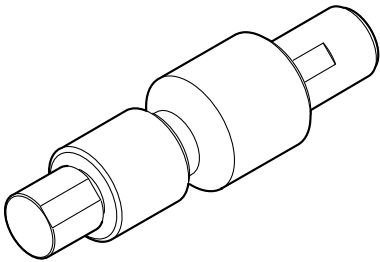
Reparaturanleitung
Repair Manual
Manuel de Reparation
Manual de Reparaciones
Manuale di Riparazioni

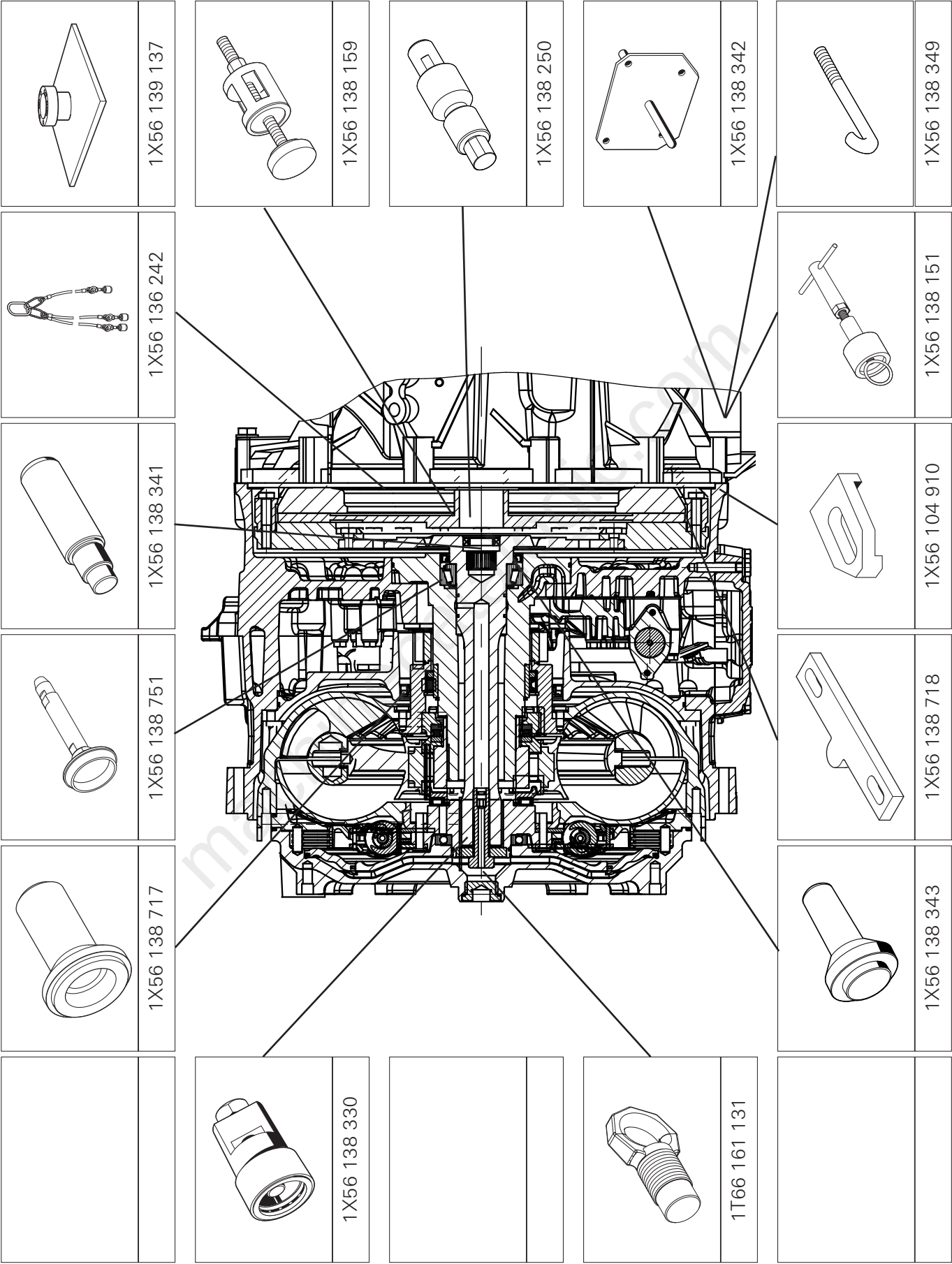
ZF-TC TRONIC
heavy duty

TCHD for 12 TC 3040 SO

4245 751 101_en



Figure no.	Illustration	Order no.	Application	Quantity	Comment
1		1X56 139 137 Assembly device for complete TC Tronic HD		1	Chapter 2
2		1X56 138 342 Fixing plate for replacing the clutch actuator or for delivery without clutch actuator		1	Chapter 4 Chapter 5
3		1X56 136 242 Lifting gear (hoist) for TCHD housing parts		1	Chapter 5 Chapter 8
4		1X56 138 159 Hold-down device for removal and installation of a release on the pressure plate		1	Chapter 6
5		1X56 138 250 Centering punch for clutch disk		1	Chapter 6



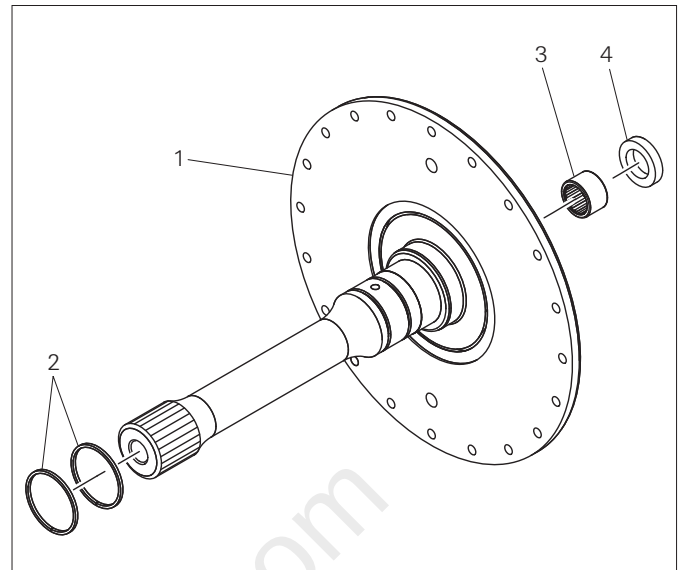
8 Turbine Shaft

8.1 Removing turbine shaft

NOTE

Turbine shaft can be removed after the removal of the shift clutch and the torque converter.

- 1 Use lifting device **1X56 136 242** to lift converter housing over turbine shaft **(1)**.
- 2 Take off rectangular rings **(2)** from the turbine shaft.
- 3 Use standard two-armed extractor to grasp needle bush **(3)** and pull out of the turbine shaft together with shaft sealing ring **(4)**.



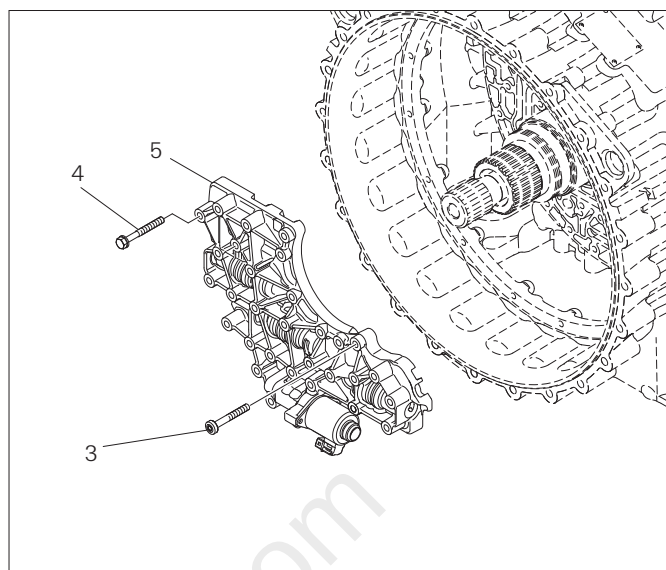
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8.2 Installing turbine shaft

- 1 Use adapter **1X56 138 341** to press needle bush **(3)** in correct position into turbine shaft **(1)** **with grease** until it is firmly home (axial abutment).
- 2 Coat circumference of shaft sealing ring **(4)** with Loctite no. 574.
- 3 Insert shaft sealing ring **(4)** until it is firmly home (axial abutment) using adapter **1X56 138 341**.
- 4 Grease needle bush **(3)** and shaft sealing ring **(4)** slightly using a brush.
- 5 Apply light coating of grease to rectangular rings **(2)** and insert into turbine shaft.
- 6 Insert turbine shaft into converter housing.

11.5 Installing the control unit

- 1 Place control unit housing **(5)** on cover plate.
- 2 Screw in and tighten 6 torx screws M8x60 **(3)**.
Tightening torque: 31 Nm
- 3 Screw in and tighten 23 hex head screws M8x70 **(4)**.
Tightening torque: 28 Nm



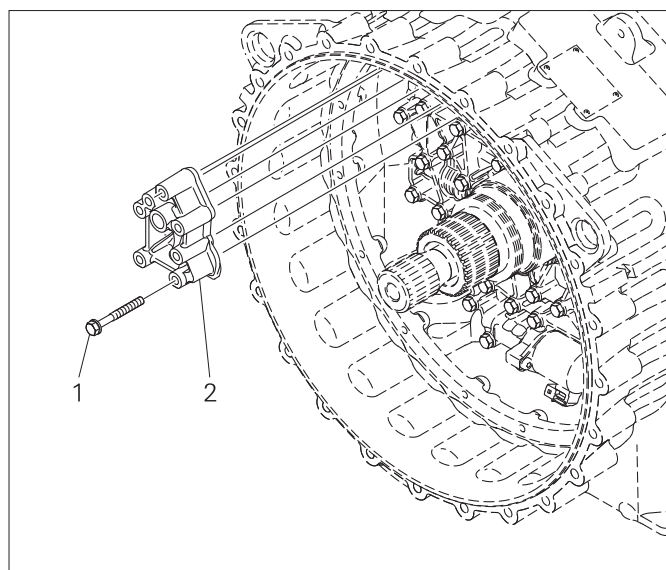
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11.6 Installing the housing

- 1 Place housing **(2)** on cover plate.
- 2 Screw in and tighten 7 hex head screws M8x70 **(1)**.
Tightening torque: 28 Nm



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ZF TCHD for 12 TC 3040 SO Transmission Service Manual

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