

machinecatalogic.com

ZF-TRONiC®

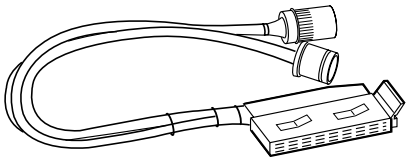
10 AS 2301

12 AS 2301, 16 AS 2601

Repair stages 1 - 2

1327 751 101



Fig. no.	Special tools	Order no.	Application	Qty.	Remarks
11		6008 206 007 Adapter cable 18/20/68-pin connector for 68-pin terminal tester 6008 006 002		1	

6 Changing the driver disc (not within ZF's scope of supply)

If the driver disc is changed, the following should be noted:

- The input shaft spline should be coated with grease OLISTA LONGTIME 3EP (ZF no. 0671 190 050).

6.1 Fitting engine, clutch and transmission

NOTE

The release bearing is fitted when the transmission is delivered or supplied. The transmission is in neutral or the highest gear.

- 1 Fit clutch disc and pressure plate (use a mandrel to centre pressure plate).
- 2 Insert input shaft spline into mating teeth inside clutch disc.
- 3 Screw transmission to engine.
- 4 Bleed clutch actuator (refer to chapter 5).
- 5 Press release bearing forwards (engine side) so that the clutch snaps into the snap-on ring of the release bearing.

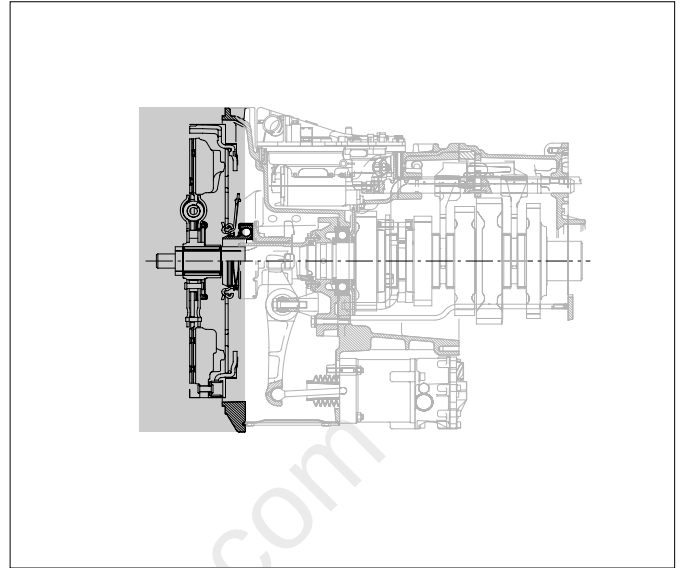
NOTE

This is done by using a small lever to press down the lower end of the release fork (transmission side). Pass lever through aperture in transmission bell housing to reach the release fork.

CAUTION

Do not damage the pressure plate.

- 6 Insert thrust rod.
- 7 Close aperture on transmission bell housing (refer to chapter 5).



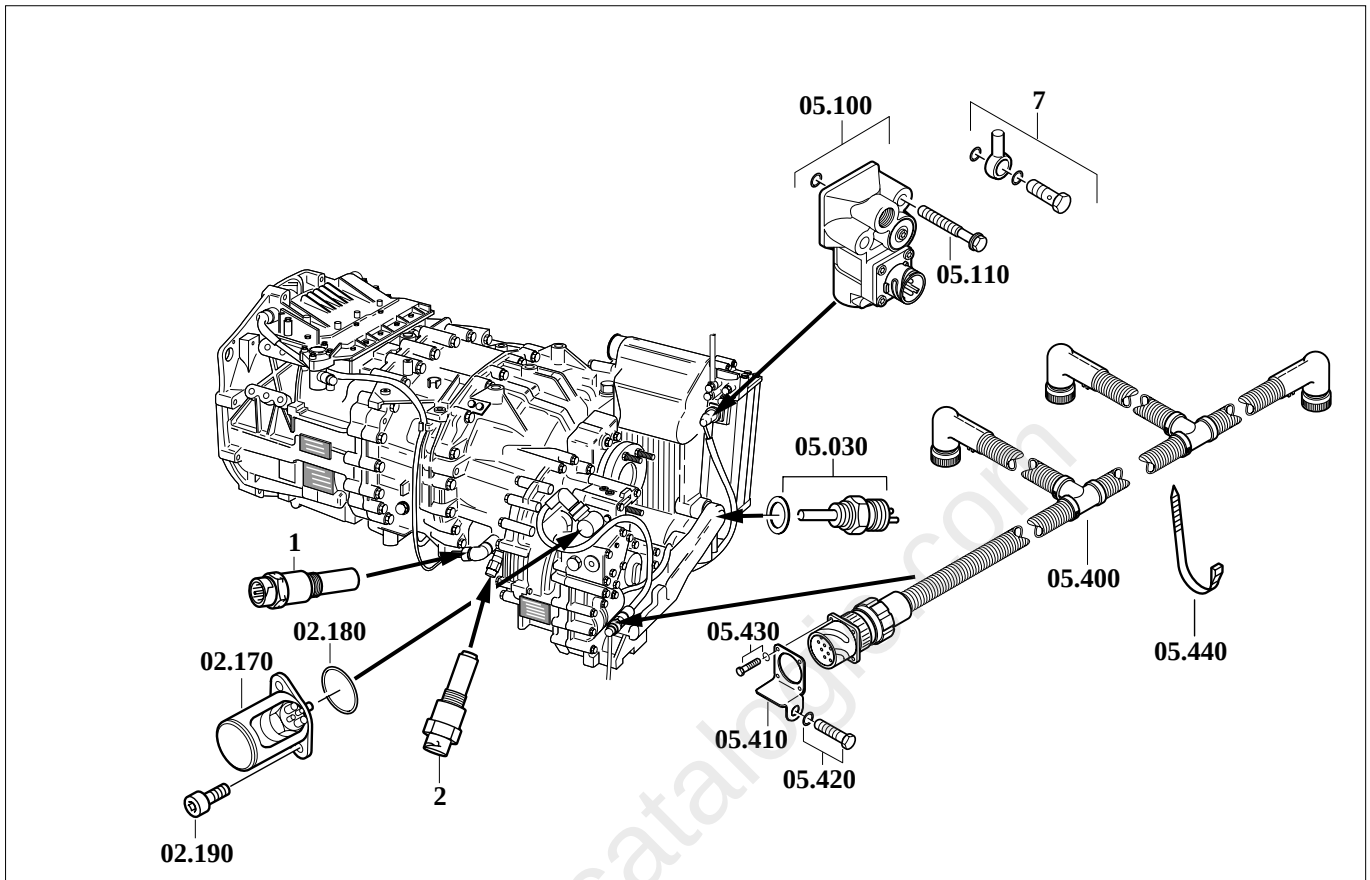
014 794

WARNING

The driver disc, pressure plate and friction lining form part of the customer specification (contained within parts list).

The shift program software is co-ordinated to the characteristics of the clutch components.

If components are modified contrary to the customer specification, this will lead to impaired clutch characteristics and/or component damage.



014 738

14 Changing components on the Intarder

CAUTION

Fit all connectors without tightening the cable and check detent.

14.1 Output speed sensor

- 1 Screw in impulse sensor (1).
Tightening torque = 45 Nm

14.2 Speedometer

- 1 Screw in impulse sensor (2).
Tightening torque = 45 Nm

CAUTION

Speedometer must be calibrated and lead sealed.

14.3 Solenoid valve

- 1 Lightly grease O-ring (02.180) and insert in solenoid valve (02.170) and use 2 M8x22 cylindrical screws (02.190) to secure.
M8 tightening torque = 23 Nm

14.4 Temperature sensor

- 1 Screw in temperature sensor (05.030) and seal.
Tightening torque = 40 Nm

Connector and mating connector designations

10 AS 2301, 12 AS 2301, 16 AS 2601

Connector	Usage	Type	Manufacturer	ZF number	Manufacturer no.	CKD no.
X1	Transmission actuator	20-pin Bu	Kostal	6029 201 675	09432001 22124472200 10800444521 10800472632	6029 199 090
	Special version transmission actuator	18-pin Bu	Kostal	0501 317 367		
X36	ZF E module	35-pin	AMP	6029 201 262	925379-1 928544-1 925380-1 ISO-1481-screw ST 2.9X9.5-F ZF gasket 6020 303 013	6029 199 091
X21	Diagnosis	6-pin ST MNL	AMP	6029 201 121	926682-3 926887-1	6029 199 027
X21	Mating connector diagnosis	6-pin Bu MNL	AMP	6029 201 120	350715-1 926882-3	6029 199 092
X2	Range selector	14-pin Bu J.P.T	AMP	6029 201 403	927771-3 929504-5	6029 199 042
	Display	8-pin Bu JPT	AMP	6029 201 676	927771-3 929504-3	6029 199 108
	Output sensor	4-pin Bu DIN Bay. angle	AMP	6029 201 618		
X17	Power supply junction	22-pin Bu JPT	AMP	6029 201 336	927771-3 929504-7	6029 199 043
X17 A Mating connector	Power supply junction	22-pin St JPT	AMP	6029 201 354	928930-5 929505-7	6029 199 025
X18	Power supply junction	18-pin Bu JPT	AMP	6029 201 361	927771-3 929504-6	6029 199 084
X18 A Mating connector	Power supply junction	18-pin St JPT	AMP	6029 201 365	928930-5 929505-6	6029 199 026
X18 A Mating connector	CAN power supply junction	6-pin Bu JPT	AMP	6029 201 367		6029 199 109
X18 A Mating connector	CAN power supply junction	6-pin St JPT	AMP	6029 201 366		6029 199 110
X19	Cabin junction	18-pin Bu JPT	AMP	6029 201 361	927771-3 929504-6	6029 199 084
X20 Mating connector to X19	Cabin junction	18-pin St JPT	AMP	6029 201 365	928930-5 929505-6	6029 199 026

Changing the connector

If the connector has to be changed, please use the standard AMP tool.

For *wiring diagram*, refer to parts list.

Full Version Available

ZF 12 AS 2301 and 16 AS 2601 Transmission Service Manual

ZF 12 AS 2301, 16 AS 2601 transmission service manual with repair procedures, diagnosis and component removal. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/zf-12-as-2301-and-16-as-2601-transmission-service-manual/>

File Pages: 116 · File Count: 2 · File Language: English