

REPAIR MANUAL

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ZF-AS Tronic

Trucks

Repair level 1 - 2

Maintenance, diagnosis, replacement of components

1327 751 101a

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2 Diagnosis

2.1 Diagnosis for vehicles with ZF display and ZF range selector

For vehicles with their own display, refer to details provided in vehicle manufacturer's description



002 686

ZF display



003 930

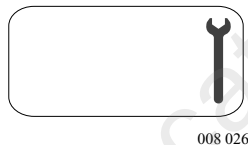
ZF range selector

When using standard ZF software, system errors are shown on the ZF display.

If a «screwdriver symbol» appears on the display, there is a system error.

Only limited operations are possible.

For example: with certain system errors, automatic driving mode is deactivated and the transmission system remains in manual mode.



008 026

If a «STOP» appears on the display together with a «screwdriver symbol», there is a serious system error. The vehicle cannot be driven any further. The vehicle usually has to be towed away.



008 027

Calling up the error numbers*:

- Switch on ignition
- Turn rotary switch to «N»
- Hold control lever in «+» position

A number shown on the display corresponds to the error number.

If 4 bars are displayed in addition to the number shown on a two-digit display, this means:

Error no. + 100

e.g.: error no. 74

error no. 174



013 587

If 4 bars and 2 arrows are displayed in addition to the number shown, this means:

Error no. + 200

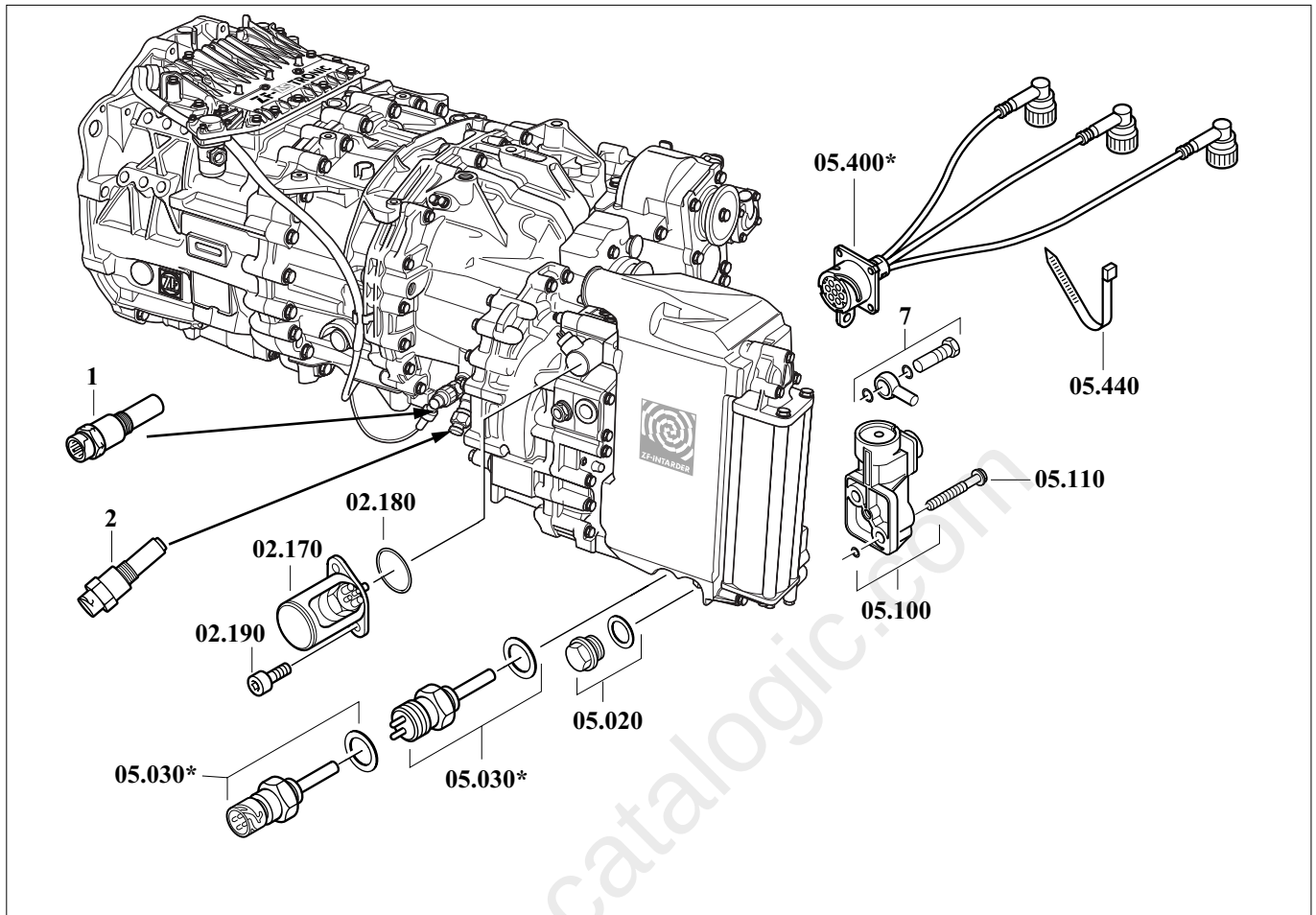
e.g.: error no. 27

error no. 227



018 470

* also refer to vehicle manufacturer operating manual



019068

3.8.5 Removing 3/2-way valve

- 1 Pull connector off 3/2-way valve (**05.100**) and remove air connection (**7**).
- 2 Remove 2 M8 hex bolts (**05.110**).
Take off 3/2-way valve (**05.100**) with O-ring (ZF no. 0634 313 028).

Fitting 3/2-way valve

- 1 Secure new O-ring (ZF no. 0634 313 028) and 3/2-way valve (**05.100**) with 2 M8 hex bolts (**05.110**).
Tightening torque M8 = 23 Nm
- 2 Connect up air connection (**7**).
Tightening torque:
Union screw M16X1.5 = 45 Nm

3.8.6 Removing / fitting Intarder wiring harness

- 1 Remove 3 cable connectors (**05.440**).
- 2 Disconnect plug connectors.

Fit Intarder wiring harness

- 1 Fit connector with traction relief. Ensure connector snaps in.
- 2 Secure wiring harness (**05.400**) to Intarder using 3 cable connectors (**05.440**).

* depending on parts list

PANOLIN AG, MADETSWIL/CH
RAFINERIA NAFTY JEDLICZE SA, JEDLICZE/PL
RAFINERIA NAFTY JEDLICZE SA, JEDLICZE/PL
S.A.E.L., MADRID/E

SHARJAH NATIONAL LUBE OIL CO. LTD., SHARJAH/UA

SHELL & DEA OIL GMBH, HAMBURG/D

SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB

SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB

SHELL INTERNATIONAL PETROLEUM COMP LTD, LONDON/GB

SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/D

STATOIL LUBRICANTS, STOCKHOLM/S

STRUB + CO AG, REIDEN/CH

STRUB + CO AG, REIDEN/CH

TEDEX OIL SP.Z.O.O., PIASECZNO/PL

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

TOTAL LUBRIFIANTS S.A., PARIS/F

VALVOLINE EUROPE, DORDRECHT/NL

VALVOLINE EUROPE, DORDRECHT/NL

YACCO, ST PIERRE LES ELBEUF/F

ZELLER + GMELIN GMBH & CO., EISLINGEN/D

ZEPPPELIN BAUMASCHINEN GMBH, GARCHING/D

PANOLIN TOPGEAR 80W/90

HIPOL EXTRA GL-4 80W-90

HIPOL EXTRA GL-5 80W-90

GULF SYTHETIC GEAR LUBRICANT 75W-90

SHARLU EP GEAR LUBE 80W/90 (GL-4)

DEAGEAR MZ 80W-90

SHELL SPIRAX GX 80W

SHELL SPIRAX GX 80W-90

SHELL SPIRAX MX 80W-90

WINTERSHALL GETRIEBEFLUID SML 80W-90

GEARWAY G4 80W

STRUB MULTIGEAR SGO 80W-90

VULCOGEAR SYNT SGX 75W-90

TEDEX SUPER GEAR OIL (3343ML) SAE 80W90

ANTAR EPS 75W-90

ANTAR UNIVERSAL FE 80W-90

FINA PONTONIC FDL 75W-90

FINA PONTONIC MDL 80W-90

TOTAL TRANSMISSION MDL 80W-90

TOTAL TRANSMISSION RS FE 80W-90

TOTAL TRANSMISSION SYN FE 75W-90

TRANSELF SYNTHES FE 75W-90

TRANSELF UNIVERSAL FE 80W-90

SYNPOWER GEAR OIL TDL 75W-90

VALVOLINE STX GEAR OIL GL-5 80W-90

BVX 1000

DIVINOL GEAR OIL STO SAE 80W-90

ZEPPPELIN SPEZIALGETRIEBEÖL GL-4/GL-5 80W-90

Full Version Available

ZF AS Tronic Transmission Service Manual (1327 751 101a)

ZF AS Tronic transmission service manual with repair procedures, diagnosis and component replacement for Liebherr machines. Instant PDF download.

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