EUROTRAKKER CURSOR REPAIR MANUAL



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This publication describes the characteristics, data and correct methods for repair operations on each component of the vehicle.

If the instructions provided are followed and the specified equipment is used, correct repair operations in the allotted time will be guaranteed, and the operators will also be protected against possible accidents.

Before any repair is commenced, ensure that all normal safety precautions are observed.

All items specified by the safety regulations-goggles, helmet gloves, boots-should be checked and worn.

All machining, lifting and conveying equipment should be inspected before use.

The data contained in this publication was correct at the time of going to press but, owing to possible modifications made by the Manufacturer for reasons of a technical or commercial nature or for adaptation to the legal requirements of different countries, some changes may have occured.

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ΝΟΤΕ

This manual is divided into several sections. Section numbers are listed on the index page to be found at the beginning of each repair manual. Each section deals generally with one of the main assemblies (engine, transmission etc.) Each section deals with the following topics: Specifications and data; Tightening torques; Special tools; Troubleshooting (fault diagnosis); Component removal/refitting; Repair operations. This manual provides graphs and symbols instead of description of parts, operations or operating procedures (see next page).
Example $\emptyset \mid =$ Small end bushing bore dia. Tighten to specified torque
Tighten to specified torque + angular value \emptyset_2 \emptyset_2 = big end bearing bore dia.
You will also notice that titles and subtitles of operations to be carried out are marked with a 6-figure number representing the Product Code , Corresponding codes are provided in the REPAIR BASE TIME SCHEDULES and in FAILURE CODES. Below you will find the explanation of each "NUMERICAL CODE" component.
Product code: PRODUCT ASSEMBLY SUBASSEMBLY COMPONENT
Figures one and two identify the PRODUCT as part of the vehicle. Example: Product 50 = Chassis; Product 52 = Axles; Product 53 = Gearbox etc.
Assembly code: PRODUCT ASSEMBLY COMPONENT
Figures three and four identify the ASSEMBLY within the PRODUCT Example: Product 50 = Chassis; Assembly 01 = Chassis frame; Assembly 02 = Anti lock bumper etc.
Subassembly code: PRODUCT ASSEMBLY SUBASSEMBLY COMPONENT
Figures five and six identify THE SUBASSEMBLY and a Component of an Assembly within a PRODUCT. Example: Product 50 = Chassis; Assembly 01 = Chassis frame; Subassembly 40 = Chassis cross members etc.

Graphs and symbols

	Remove Disconnect		Suction, intake
	Fit back Reconnect	Þ	Exhaust discharge
==	Disassembly take apart Dismantling		Operation
	Assemble put together	<i>Q</i>	Compression ratio
	Tighten to torque		Tolerance Load unbalance
$\widehat{\mathbb{Q}}_a$	Tighten to torque + angle value		Rolling torque
•	Stake or bend over	IVECO PARIS	Part replacement Original spare parts
848	Adjustment Regulation		Rotation
Â	Warning Note	\triangleleft	Angle Angle value
	Visual check Check assembly position		Preloading
	Measurement Dimension reading Check		Number of revolutions
Ð	Tooling	E	Temperature
24	Machining surface Finished part	bar	Pressure
-¢7	Interference Force fitting	>	Oversized Greater than Maximum, peak
	Thickness Clearance, play, backlash	<	Undersized Less than Minimum
	Lubricate Moisten Grease	A	Selection Class Oversizing
	Sealant Adhesive		Temperature below < 0° C Cold Winter
	Air bleeding		Temperature over 0º C Warm Summer

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2 GENERAL

GENERAL COMPOSITION OF THE MODELS

	MODEL	_S 4X2	24 H	27 H	31 H	35 HT
ASSEMBLIES			MP 190 E	MP 190 E	MP 190 E	MP 400 E
	F2BEO681D		•			
	SSEMBLIES F2BEO681D F2BEO681C F2BEO681A F2BEO681A Single plate with pull rod 15"/16" Single plate with pull rod 16" 2895.9 ZF 95 109 D.D. ZF 16S 109 D.D. ZF 8098 ZF 8098 Front mechanical suspension Rear mechanical suspension			•		
ASSEMBLIES F2BEO68 F2BE068 F2BE08 F2BE08 F2BE08 F2BE08 F2BE08 F2BE08 F2BE08 F2BE08 F2BE08	F2BE0681B				•	
	F2BEO681A					•
	Single plate with pull rod 15"/16"		•	•		
Ţ	Single plate with pull rod 16"				•	•
	2895.9		•			
	ZF 9S 109 D.D.			•		
	ZF 16S 109 D.D.				•	
	ZF 16S 151 D.D.					•
	5886 - 5886/2D - 5886/D 米		•	•	•	•
	451391/1 ● - 451391/2D ■		•	•	•	•
	ZF 8098		•	•	•	•
8 9	Front mechanical suspension		•	•	•	•
	Rear mechanical suspension		•	•	•	•

4x2 = Two axle vehicles with rear driving axle. 4x4 = Two axle vehicles with front and rear driving axles. 6x4 = Three axle vehicles with two rear driving axles (in Tandem). 6x6 = Three axle vehicles with front axle and two rear driving axles (in Tandem).

8x4x4 = Four axle vehicles: first and second steering axles, third and fourth driving axles (in Tandem).

• Drum brakes Simplex

*Disk brakes

	MODELS 4X4	4 W	M∠	4 W	M∠	>	15 W	81 W-/P	5 W-/P
		⊃ 180 E 2	> 180 E 2	⊃ 190 E 2	⊃ 190 E 2	o 190 E 3	⊃ 190 E 3	P 190 E 3	⊃ 190 E 3
ASSEMBLIES		Σ	Σ	Σ	Σ	Σ	Σ	Σ	Σ
	F2BEO681D	•		•					<u> </u>
	F2BEO681C		•		•				
	F2BE0681B					•		•	
ASSEMBLIES F28EO681D • • • F28EO681D • <td< td=""><td></td><td></td><td>•</td><td></td><td>•</td></td<>			•		•				
	Single plate with pull rod 15"/16"	•	•	•	•				
	MODELS 4X4 BILIES F2BEO681D F2BEO681C F2BEO681C F2BEO681A F2BEO681A Single plate with pull rod 15"/16" Single plate with pull rod 16" ZP 95 109 D.D. ZF 16S 109 D.D. ZF 16S 151 D.D Eurotronic 12AS 2301 D.D. T C 700 □ T C 700 □ SP85 • - 5985/2D ■ Af1391/1 • - 451391/2D ■ Front mechanical suspension Rear mechanical suspension Rear mechanical suspension					•	•	•	•
	2895.9 (optional)	•	•	•	•				
ASSEMBLIES	ZF 9S 109 D.D.	•	•	•	•	•	•	•	•
	ZF 16S 109 D.D					•		•	
	ZF 16S 151 D.D						•		•
	Eurotronic 1800 - Eurotronic 12AS 2301 D.D.	**4 Mb 180 E 23 M • · · · <t< td=""><td>•</td><td>•</td><td>•</td></t<>	•	•	•				
	Т С 700 🗌	•	•	•	•				
	T C 1800	MODELS 4X4 M P 3 0 0 1 M M P 3 0 1 M M P 3	•	•					
FRONT	5985 ● - 5985/2D ■	•	•	•	•	•	•	•	•
REAR	451391/1 ● - 451391/2D ■	•	•	•	•	•	•	•	•
	ZF 8098	•	•	•	•	•	•	•	•
8 9	Front mechanical suspension	•	•	•	•	•	•	•	•
REAR	Rear mechanical suspension	•	•	•	•	•	•		
	Rear mechanical suspension							•	•

 $4x^2 = Two$ axle vehicles with rear driving axle.

4x4 = Two axle vehicles with front and rear driving axles.

6x4 = Three axle vehicles with two rear driving axles (in Tandem).

6x6 = Three axle vehicles with front axle and two rear driving axles (in Tandem).

8x4x4 = Four axle vehicles: first and second steering axles, third and fourth driving axles (in Tandem).

 $\hfill\square$ Applied on ceased production vehicles

• Disk brakes Simplex

	MODELS 6X4	0 E 27 H	0 E 31 H	0 E 31 HB	0 E 31 HB/P	0 E 35 H	0 E 35 HB	0 E 35 HB/P	0 E 35 H	0 E 35 HB
ASSEMBLIES		MP 26(MP 26(MP 26(MP 26(MP 26(MP 26(MP 260	MP 38(MP 38(
	F2BEO681C	•								
	F2BEO681B		•	•	•					
MODELS 6X4 H	•	•	•							
	Single plate with pull rod 15"/16"	•								
	Single plate with pull rod 16"		•	•	•	•	•	•	•	•
	ZF 9S 109 D.D	•	•	•	•					
	ZF 16S 109 D.D		•							
MODELS 6X4 H	•	•	•							
	F2BEO681C F2BEO681A Single plate with pull rod 15"/16" Single plate with pull rod 16" ZF 9S 109 D.D 2F ZF 16S 109 D.D 2F ZF 16S 109 D.D 2F Single plate with pull rod 16" ZF 16S 109 D.D 2F INTERMEDIATE 452146 • .412146/2D 100 REAR 452146 • .412146/2D 100 INTERMEDIATE 452146 • .412146/2D 100 REAR 453291 • .453291/2D 100 REAR 453291 • .453291/2D 100 REAR 453291 • .453291/2D 100 REAR SR 145 E/2D 100 ZF 8098 2 Front mechanical suspension 100 Rear mechanical suspension 100		•	•	•	•	•	•	•	•
	5886 ● - 5886/2D II - 5886/D米	•	•	•	•	•	•	•	•	•
	INTERMEDIATE 452146 • - 412146/2D	•	•	•		•				
	REAR 452146 ● - 412146/2D ■	•	•	•		•				
	INTERMEDIATE 453291 • - 453291/2D								•	•
	REAR 453291 ● - 453291/2D ■								•	•
	INTERMEDIATE SR 145 E/2D			•	•		•	•		
ASSEMBLIES E I <thi< th=""> <thi<< td=""><td>•</td><td></td><td>•</td><td>•</td><td></td><td></td></thi<<></thi<>	•		•	•						
	bit b	•								
<u>و</u> ع	Front mechanical suspension	•	•	•	•	•	•	•	•	•
ZF 9S 109 D.D • ZF 16S 109 D.D • ZF 16S 151 D.D • Eurotronic 1800 - Eurotronic 12AS 2301 D.D. • Image: Stress of the	•		•	•			•			
	Rear mechanical suspension				•			•		

 $4x^2 = Two$ axle vehicles with rear driving axle.

- 4x4 = Two axle vehicles with front and rear driving axles.
- 6x4 = Three axle vehicles with two rear driving axles (in Tandem).

6x6 = Three axle vehicles with front axle and two rear driving axles (in Tandem).

8x4x4 = Four axle vehicles: first and second steering axles, third and fourth driving axles (in Tandem).

• Drum brakes Simplex

*Disk brakes

ASSEMBLIES	MODELS 6X6	MP 260 E 35 W	MP 380 E 35 W
	F2BEO681A	•	•
	Single plate with pull rod 16"	•	•
	ZF 16S 151	•	•
ASSEMBLIES F2B F2B F2B F2B F2B F2B F2B F2B	Eurotronic 1800 - Eurotronic 12AS 2301	•	•
	T C 1800	•	•
FRONT	5985 ● - 5985/2D ■	•	•
	INTERMEDIATE 452191/1 ● - 452191/2D ■	•	
	REAR 452191/11 ● - 452191/2D ■	•	
	MODELS SEMBLIES Image: Single plate with pull rod 16" Image: Single plate with pull rod 16"		•
	REAR 453291 ● - 45329/2D ■		•
	ZF 8098	•	•
8 9	Front mechanical suspension	•	•
ASSEMBLIES Image: Page Ode BIA Image: Page Od	•	•	

4x2 = Two axle vehicles with rear driving axle.

4x4 = Two axle vehicles with front and rear driving axles. 6x4 = Three axle vehicles with two rear driving axles (in Tandem).

6x6 = Three axle vehicles with front axle and two rear driving axles (in Tandem). 8x4x4 = Four axle vehicles: first and second steering axles, third and fourth driving axles (in Tandem).

• Disk brakes Simplex

	MODELS 8X4X4	40 E 35 H	40 E 35 H/P	40 E 35 HB	40 E 35 HB/P	10 E 35 H
ASSEMBLIES		MP 3	MP 3	MP 3	MP 3	MP 4
	F2BEO681A	•	•	•	•	•
	Single plate with pull rod 16"	•	•	•	•	•
	ZF 16S 151 D.D.	•	•	•	•	•
	EUROTRONIC 1800 - Eurotronic 12 AS 2301 D.D.	•	•	•	•	•
	I° 5886 ● - 5886/2D ■ - 5886/D米	•	•	•	•	•
	2° 5886	•	•	•	•	•
	INTERMEDIATE 452146 ● - 452146/2D ■	•		•		
	REAR 452146 ● - 452146/2D ■	•		•		
REAR	INTERMEDIATE 453291 • - 453291/2D					•
	REAR 453291 ● - 453291/2D ■					•
	INTERMEDIATE RT 153 E/2D	•	•		•	
	REAR RT 153 E/2D	•	•		•	
	ZF 8099/I - ZF 8099/I,5	•	•	•	•	•
0 0	Front mechanical suspension	•	•	•	•	•
	Rear mechanical suspension	•		•		•
	Rear mechanical suspension		•		•	

• Drum brakes Simplex

* Disk brakes

Drum brakes Duo Duplex

4x2 = Two axle vehicles with rear driving axle.

4x4 = Two axle vehicles with front and rear driving axles.

6x4 = Three axle vehicles with two rear driving axles (in Tandem).
6x6 = Three axle vehicles with front axle and two rear driving axles (in Tandem).
8x4x4 = Four axle vehicles: first and second steering axles, third and fourth driving axles (in Tandem).

P.I.C. CODE NUMBERS





- M.T.T. = Total mass on the ground in tons
- C = Chassis cab
- T = Tractor



GEARBOX - CAB - BR	AKES - RETARD	ER COMBINATION
A	AB	B C C D
GEARBOX	САВ	INTEGRATED RETARDER
9 speed mechanical	MPC	optional A
16 speed mechanical ■	MPC	optional B
16 speed mechanical $^\circ$	MPC	optional A
semiautomatic	MPC	optional C
9 speed mechanical	MPL	optional D
16 speed mechanical ■	MPL	optional E
16 speed mechanical $^\circ$	MPL	optional D
semiautomatic	MPL	optional F
9 speed mechanical	MPC	not present G
16 speed mechanical	MPC	not present H
semiautomatic	MPC	not present J
9 speed mechanical	MPL	not present K
16 speed mechanical	MPL	not present L
semiautomatic	MPL	not present M
l 6 speed mechanical	MPC	hydraulic N
semiautomatic	MPC	hydraulic P
l 6 speed mechanical	MPL	hydraulic Q
semiautomatic	MPL	hydraulic R
 = 310 HP power engine = 350 HP power engine 		DRIVE (•)
A MPC = SHORT CAR	AA	B B C C D LEFT-HAND ↔ I DRIVE RIGHT-HAND ↔ D DRIVE
MPL = LONG CAB		

(ullet) Only for vehicles with front and rear Simplex type drum brakes

VEHICLES MY 2000 CODE NUMBERS



(•) Only for 190H (4x2) vehicles



MPC = Short cab MPL = Long cab

* Simplex drum brakes • Duo-Duplex drum brakes

VEHICLE IDENTIFICATION DATA

Engine type and number, chassis type and number and manufacturer's plate are your vehicle's identification data.

Manufacturer's plate

For vehicle identification to comply with EEC directives (under front radiator cowling)



Engine

Plate on rear left side of engine block





Chassis

Π

Stamping (on right-hand side member front end)

WECO)

Iveco Euro Trakker Cursor Repair Manual

FILLING UP

JBRICANTS RECOMMENDED BY IVECO		PARTS TO BE FILLED UP	Quan	ury
			Liters	Kg
Urania Turbo LD5 Urania Turbo LD		Engine F2B		
		Total capacity 1st filling Capacity:	28	25.2
		- engine sump min level	12.5	11.2
		- engine sump max level	23	21
		 circulating quantity not return- ing to sump 	5	4.5
		- quantity contained in the car- tridge filter (to add when re- placing the cartridge filter)	2.5	2.3
Tutela ZC 90		Gearbox 2895.9 ZF 9S 109 ZF 16 S 109 ZF 16S 151 ZF 16 S 151 + Intarder Eurotronic 1800 Eurotronic 12 AS 2301 D.D Eurotronic 12 AS 2301 D.D + Intarder Power take off "Multipower"	8.3 8 7.3 18.5 11 12 r 21	7.5 7 6.5 16.5 9.9 11 19
			Ζ	
T		TC 700	5	4.5
i utela ZC 90		Reduction gear unit TC 1800	6.5	5.5
	प ज व व	Axle 5886 -/D (for each hub)	0.35	0.32
		Front axle 5985/2D	5	4.5
	u u u	Front axle wheels reduction unit 5985 2/D	0.75	0.68
		Rear axle 451391/2D	16	14.5
		Axle in tandem 453291/1/1-/2D: - (intermediate + transm.) - rear	27 6	24.3 14.5
		Axle in tandem 452191-2/D: - (intermediate + transm.)	27 6	24.3 14.5
		Axle in tandem 452146-2/D: - (intermediate + transm.) - rear	3 .5	.7 0.5
		Axle in tandem SR 145 E/2D: - (intermediate + transm.) - rear	6.5 2.5	4 1.5
		Axle in tandem RT 153 E/2D with pneumatic suspension: - (intermediate + transm.)	20	18
		- rear	10	10

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