



# **EUROTRAKKER CURSOR 13 REPAIR MANUAL**

**IVECO**



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

If the instructions provided are followed and the specified tools are 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 the safety equipment is available and efficient.

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

Check all work, lifting and handling equipment before use.

The data contained in this publication may no longer be up-to-date due to modifications made by the Manufacturer, at any time, for reasons of a technical or commercial nature or to adapt to the legal requirements of different countries.

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## NOTE

The repair manuals--mechanics--are divided into Sections, each one of which is marked by a number and its contents are given in the general table of contents.

Each section generally deals with one of the main assemblies (engine, transmission, etc.).

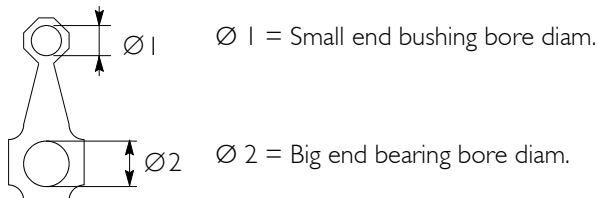
Each section generally covers the following topics:

Technical data tables, Tightening torques, Tools, Fault diagnosis, Removal and refitting, Repair work.

Wherever possible, we have tried to follow the same order to make finding the information easier.

In addition, to make the subject more immediate and easier, we have made extensive use of graphs and symbols (see next page) instead of descriptions of parts, operations or procedures.

For example:



Tightening torque  
Tightening torque + angle value

In addition, in the sections, each heading or subheading associated with the operations to carry out is preceded by a six-figure number. This number is the **Product Code**, it corresponds to the repair given in the REPAIR TIME SCHEDULES and FAILURE CODES. For easy reference, here we provide the explanation for this code (see Time Schedules as well).



Figures one and two identify the PRODUCT as part of the vehicle.

For example:

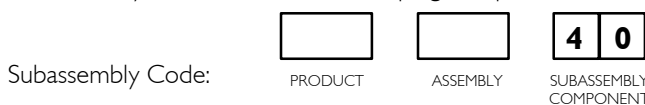
- Product      50 = Chassis;
- Product      52 = Axles;
- Product      53 = Gearbox, etc.



Figures three and four identify the ASSEMBLY within the PRODUCT.

For example:

- Product      50 = Chassis;
- Assembly    01 = Chassis frame;
- Assembly    02 = Anti-telescoping bumper, etc.







Figures five and six identify the SUBASSEMBLY and the Component of an Assembly within a PRODUCT.

For example:

- Product      50 = Chassis;
- Assembly    01 = Chassis frame;
- Subassembly 40 = Chassis cross members, etc.

# Graphics and Symbols

	Removal Disconnect		Suction, intake
	Refitting Reconnect		Exhaust
	Disassembly Dismantling		Operation
	Assembly	$\varrho$	Compression ratio
	Tightening torque		Tolerance Weight difference
	Tightening torque Tightening torque + angle value		Rolling torque
	Notching or caulking		Part replacement Genuine spare parts
	Adjustment		Rotation
	Warning Note		Angle Angle value
	Visual check Assembly position check		Pre-loading
	Measurement Dimension to measure Check		Number of revolutions
	Tools		Temperature
	Machining surface Finished part		Pressure
	Interference Force fitting	>	Oversized Greater than ... Maximum
	Thickness Clearance, play, backlash	<	Undersized Less than ... Minimum
	Lubricate Moisten Grease		Selection Class Oversizing
	Sealant Adhesive		Temperature < 0 °C Cold Winter
	Air bleeding		Temperature > 0 °C Warm Summer

## CONTENTS OF SECTIONS

	Section
General information	<b>I</b>
Engine	<b>2</b>
Clutch	<b>3</b>
Gearbox	<b>4</b>
Hydraulic decelerator	<b>5</b>
Total power take-off	<b>6</b>
Flow dividers reduction unit	<b>7</b>
Propeller shafts	<b>8</b>
Rear axles	<b>9</b>
Front axle	<b>10</b>
Front and rear suspensions	<b>11</b>
Wheels and tyres	<b>12</b>
Steering system	<b>13</b>
Pneumatic system - Brakes	<b>14</b>
Body and Chassis	<b>15</b>
Routine maintenance	<b>16</b>

**SECTION I**

**General**

	Page
VEHICLE IDENTIFICATION DATA . . . . .	3
<input type="checkbox"/> Vehicle Identification Plate . . . . .	4
<input type="checkbox"/> Production identification plate . . . . .	4
P.I.C. NUMBER CODING . . . . .	5
COMPOSITION OF MODELS . . . . .	9
REPLENISHING FLUIDS . . . . .	15
<input type="checkbox"/> International lubricant and fluid names . . . . .	17

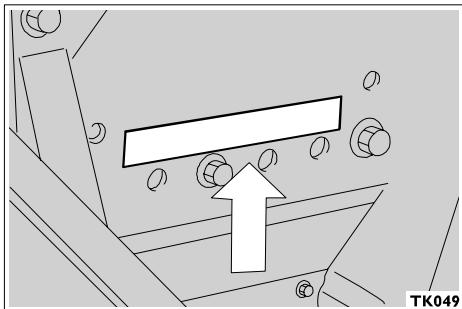
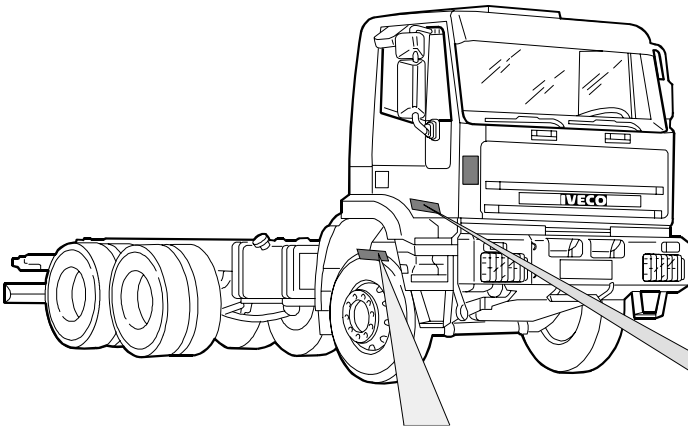
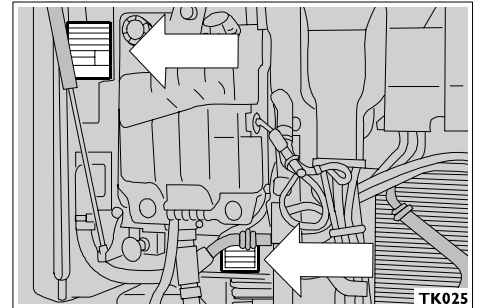


## VEHICLE IDENTIFICATION DATA

The type and number of engine, type and number of chassis and manufacturer's plate comprise the vehicle identification data.

### Manufacturer's plate

To identify the vehicle in accordance with the E.E.C. directive (under the front radiator cowling).

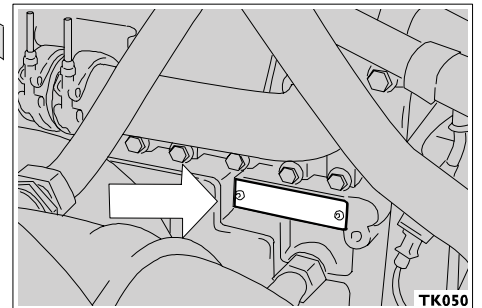


### Chassis frame

Punching (front on right side member of chassis frame).

### Engine

Plate on the left rear side of the crankcase





**Vehicle Identification Plate**

Plate legend

- a) Type-approval number marking (if applicable).
- b) Vehicle identification code number (V.I.N.).
- c) Total tractor weight.
- d) Total weight of tractor + trailer (if applicable).
- e) Permissible weight limit on 1st axle.
- f) Permissible weight limit on 2nd axle (if applicable).
- g) Permissible weight limit on 3rd axle.
- h) Permissible weight limit on 4th axle (if applicable).
- i) Specific identification of type.
- l) Wheelbase in mm.
- m) Engine type.
- n) Engine power.
- o) No. of axles.
- p) Place of manufacture.

<b>IVECO MAGIRUS AG</b>										
<b>a)</b>	_____									
<b>b)</b>	_____									
<b>c)</b>	_____ Kg									
<b>d)</b>	_____ Kg									
<b>e)</b>	<u>1</u> - _____ Kg									
<b>f)</b>	<u>2</u> - _____ Kg									
<b>g)</b>	<u>3</u> - _____ Kg									
<b>h)</b>	<u>4</u> - _____ Kg									
<b>i)</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Type</td> <td style="width: 30%;">N° of axles</td> </tr> <tr> <td>Wheelbase</td> <td rowspan="2" style="text-align: center;"><b>o)</b> Corrected absorption value</td> </tr> <tr> <td>Engine type</td> </tr> <tr> <td>Engine power KW</td> <td style="text-align: center;"><b>n)</b></td> </tr> <tr> <td>Made in</td> <td style="text-align: center;"><b>IVECO</b></td> </tr> </table>	Type	N° of axles	Wheelbase	<b>o)</b> Corrected absorption value	Engine type	Engine power KW	<b>n)</b>	Made in	<b>IVECO</b>
Type	N° of axles									
Wheelbase	<b>o)</b> Corrected absorption value									
Engine type										
Engine power KW	<b>n)</b>									
Made in	<b>IVECO</b>									
<b>p)</b>	<b>IVECO</b>									

**Production identification plate**

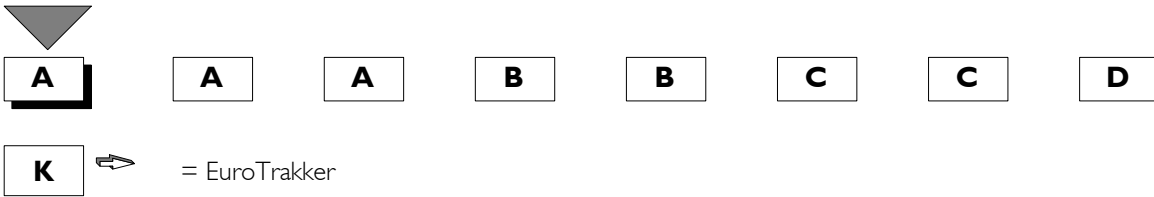
This plate shows the P.I.C. (production identification code number), which is needed when referring to the **spare parts catalogue** (electronic and/or microfiche catalogue). The P.I.C. is also given on the vehicle warranty card.  
**Note:** When consulting the catalogues, use only the first 8 digits of the product identification code number.

<b>Unit No</b>	_____
<b>Part No</b>	_____
<b>Serial No</b>	_____
<b>P.I.C. No</b>	_____
<b>Made in Germany-Iveco Magirus AG</b>	
9843 8247	<b>IVECO</b>

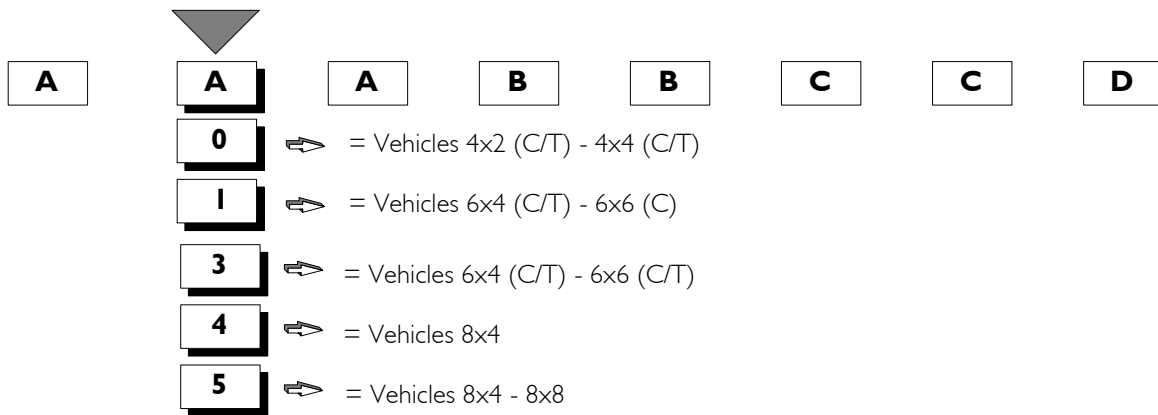
Permissible grade of smoke

**P.I.C. NUMBER CODING**

**RANGE**

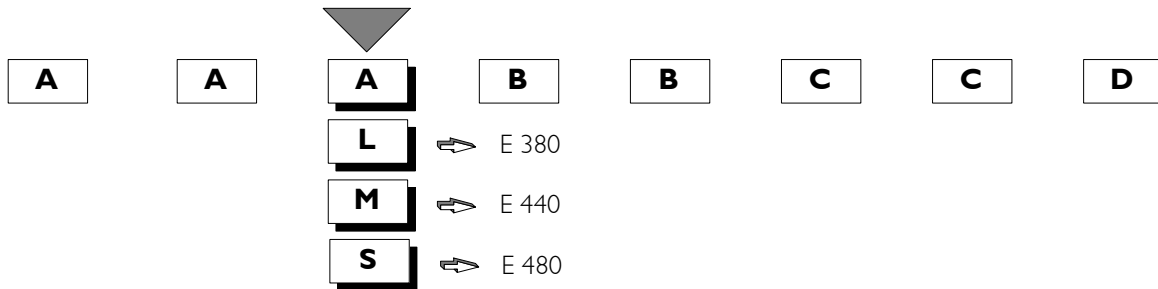


**TOTAL WEIGHT ON GROUND**

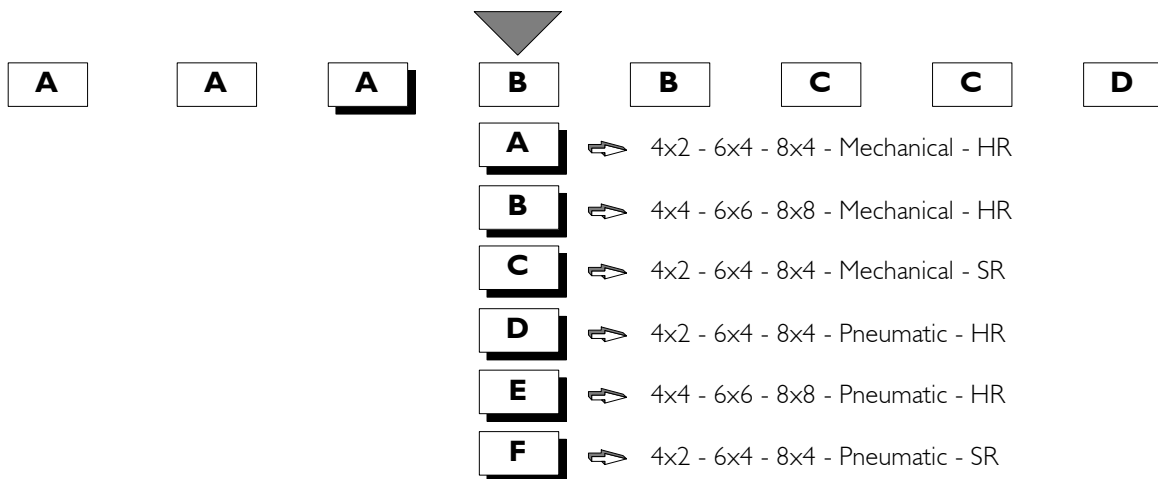


C = with cab  
T = tractor

**ENGINE**



**AXLE SET-UP - SUSPENSION TYPE - REAR AXLE TYPE**



**VERSION**

A A A B **B** C C D

- 1** → = Chassis cab
- 2** → = Tractor
- 7** → = Concrete mixer

**WHEELBASE**

A A A B B **C** C D

VERSION	WHEEL-BASE	M.T.T.
C/T 4x2 C 4x4	3500	18-20

VERSION	WHEEL-BASE	M.T.T.

VERSION	WHEEL-BASE	M.T.T.
C 8x4	4250	32 32-40

C/T 4x2 C 4x4	3800	18-20
------------------	------	-------

C 6x4 T 6x4	3200	26 33
----------------	------	----------

C 8x4	4700	32 32-40
-------	------	-------------

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C 8x8	4750	32-40
-------	------	-------

C 4x2 C 4x4	4200	18-20
----------------	------	-------

C 6x4 C 6x6 T 6x6	3500	26 33 33
-------------------------	------	----------------

C 8x4	5020	32 32-40
-------	------	-------------

--	--	--

T 4x4	3800	18-20
-------	------	-------

--	--	--

C 4x2 C 4x4	4500	18-20
----------------	------	-------

C 6x4 C 6x6	3820	26 33
----------------	------	----------

C 8x4	5820	32 32-40
-------	------	-------------

C 4x2 C 4x4	5100	18-20
----------------	------	-------

C 6x4	4200	26 33
-------	------	----------

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--	--	--

C 6x4	4500	26 33
-------	------	----------

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C 6x4	4800	26 33
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--	--	--

--	--	--

C 6x4	5100	26 33
-------	------	----------

--	--	--

- **1**
- **2**
- **2**
- **3**
- **3**
- **4**
- **5**
- **6**
- **7**
- **8**

M.T.T. = Overall weight on ground in tons  
 C = With cab  
 T = Tractor

**GEARBOX - ENGINE COMBINATION**

	<b>A</b>	<b>A</b>	<b>A</b>	<b>B</b>	<b>B</b>	<b>C</b>	<b>C</b>	<b>D</b>
				380 CV (L)	440 CV (M)	480 CV (M)		
ZF 16 S 151 O.D.				YES	NO	NO	➔	<b>C</b>
ZF 16 S 181 O.D.				NO	YES	NO		
ZF 16 S 151 O.D. + Intarder				YES	NO	NO	➔	<b>D</b>
ZF 16 S 181 O.D. + Intarder				NO	YES	NO		
ZF 16 S 221 O.D.				YES *	NO	YES	➔	<b>E</b>
ZF 16 S 221 O.D. + Intarder				YES *	NO	YES	➔	<b>F</b>
EuroTronic 16 A S 2601 O.D.				YES	YES	YES	➔	<b>H</b>
EuroTronic 16 A S 2601 O.D. + Intarder				YES	YES	YES	➔	<b>J</b>

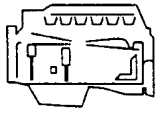

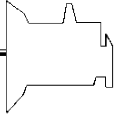
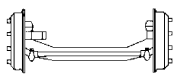
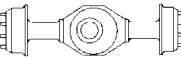


\* For heavy duty vehicles only

**CAB - DRIVE - BRAKES COMBINATION**

A	A	A	B	B	C	C	D
CAB	DRIVE	BRAKES					
		FRONT	REAR				
MPC	Right	Disc	Drum *	→	A		
MPC	Right	Drum •	Drum •	→	B		
MPL	Right	Disc	Drum *	→	C		
MPL	Right	Drum •	Drum •	→	E		
MPC	Left	Disc	Drum *	→	2		
MPC	Left	Drum •	Drum •	→	3		
MPL	Left	Disc	Drum *	→	4		
MPL	Left	Drum •	Drum •	→	5		

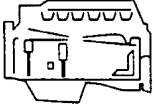

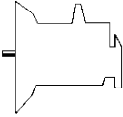
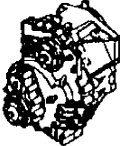

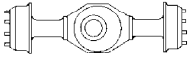
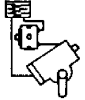

- MPC = Short cab
- MPL = Long cab
- \* = Simplex drum brakes
- = Duo-duplex drum brakes

**COMPOSITION OF MODELS**

		MODELS 4X2			
ASSEMBLIES		MP 190 E 38 H	MP 190 E 44 H	MP 400 E 38 HT	MP 400 E 44 HT
	F3BE0681G (380 CV)	•		•	
	F3BE0681C (440 CV)		•		•
	Single disc 17"	•	•	•	•
	ZF 16S 151 O.D.	•		•	
	ZF 16S 181 O.D.		•		•
	EUROTRONIC 16 AS 2601 O.D.			•	•
	5886/D □	•	•	•	•
	5886/2D ◆	•	•	•	•
	451391/2D ⊕	•	•	•	•
	ZF 8098	•	•	•	•
	Front mechanical	•	•	•	•
	Rear mechanical	•	•	•	•

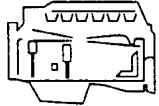

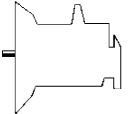
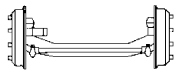

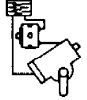

- 4x4 = Vehicles with two axles with front and rear driving axle
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- 6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)
- 8x4 = Vehicles with four axles: first and second steering axles, third and fourth driving axles (in tandem)
- 8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)
- = With disc brakes
- ◆ = On demand, with Duo-Duplex drum brakes for 20" wheel rims
- ⊕ = With Duo-Duplex drum brakes

**COMPOSITION OF MODELS**

		MODELS 4X4			
ASSEMBLIES		MP 190 E 38 W	MP 190 E 44 W	MP 400 E 38 WT	MP 400 E 44 WT
	F3BE0681 G (380 CV)	•		•	
	F3BE0681 C (440 CV)		•		•
	Single disc 17"	•	•	•	•
	ZF 16S 151 O.D.	•		•	
	ZF 16S 181 O.D.		•		•
	EUROTRONIC 16 AS 2601 O.D.	•	•	•	•
	TC 1800	•		•	
	TC 2200		•		•
DRIVING AXLE 	5985/2D ⊕	•	•	•	•
REAR AXLE 	451391/2D ⊕	•	•	•	•
	ZF 8098	•	•	•	•
	Front mechanical	•	•	•	•
	Rear mechanical	•	•	•	•

- 4x4 = Vehicles with two axles with front and rear driving axle
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- 6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)
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- 8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)
- ⊕ = With Duo-Duplex drum brakes

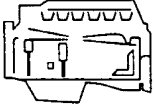

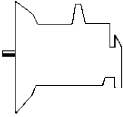
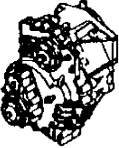
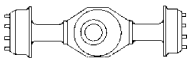
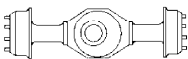


**COMPOSITION OF MODELS**

		MODELS 6X4													
ASSEMBLIES		MP 260 E 38 H	MP 260 E 44 H	MP 260 E 48 H	MP 380 E 38 H	MP 380 E 38 H *	MP 380 E 44 H	MP 380 E 48 H	MP 380 E 38 HB	MP 380 E 44 HB	MP 440 E 38 HT	MP 440 E 44 HT	MP 720 E 38 HT	MP 720 E 44 HT	MP 720 E 48 HT
	F3BE0681G (380CV)	•			•	•			•		•		•		
	F3BE0681C (440 CV)		•				•			•		•		•	
	F3BE681E (480 CV)			•				•							•
	Single disc 17"	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	ZF 16S 151 O.D.	•			•				•		•		•		
	ZF 16S 181 O.D.		•				•			•		•		•	
	ZF 16S 221 O.D.			•		•		•							•
	EUROTRONIC 16 AS 2601 O.D.	•	•	•	•		•	•	•	•	•	•	•	•	•
	5886/D □	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	5886/2D ◆	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TANDEM 	MIDDLE 452191/2D ⊕	•	•	•							•	•			
	REAR 452191/2D ⊕	•	•	•							•	•			
	MIDDLE 453291/2D ⊕				•	•	•	•	•	•			•	•	•
	REAR 453291/2D ⊕				•	•	•	•	•	•			•	•	•
	ZF 8098	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Front mechanical	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rear mechanical	•	•	•	•	•	•	•	•	•	•	•	•	•	•

- 4x4 = Vehicles with two axles with front and rear driving axle
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- 6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)
- 8x4 = Vehicles with four axles: first and second steering axles, third and fourth driving axles (in tandem)
- 8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)
- = With disc brakes
- ◆ = On demand, with Duo-Duplex drum brakes for 20" wheel rims
- ⊕ = With Duo-Duplex drum brakes
- \* = "South America - Outside Europe" heavy-duty mission



## COMPOSITION OF MODELS

		MODELS 6X6						
ASSEMBLIES		MP 260 E 38 W	MP 260 E 44 W	MP 380 E 38 W	MP 380 E 38 W *	MP 380 E 44 W	MP 720 E 38 WT	MP 720 E 44 WT
	F3BE068 I G (380CV)	•		•	•		•	
	F3BE068 I C (440CV)		•			•		•
	Single disc 17"		•	•	•	•	•	•
	ZF 16S 151 O.D.	•		•			•	
	ZF 16S 181 O.D.		•			•		•
	ZF 16S 221 O.D.				•			
	EUROTRONIC 16 AS 2601 O.D.	•	•	•		•	•	•
	TC 1800	•		•	•		•	
	TC 2200		•			•		•
DRIVING AXLE 	5985 2D ⊕	•	•	•	•	•	•	•
TANDEM 	MIDDLE 452191/2D ⊕	•	•					
	REAR 452191/2D ⊕	•	•					
	MIDDLE 453291/2D ⊕			•	•	•	•	•
	REAR 453291/2D ⊕			•	•	•	•	•
	ZF 8098	•	•	•	•	•	•	•
	Front mechanical	•	•	•	•	•	•	•
	Rear mechanical	•	•	•	•	•	•	•

4x4 = Vehicles with two axles with front and rear driving axle

6x4 = Vehicles with three axles with two rear driving axles (in tandem)

6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)

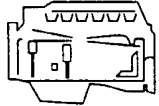

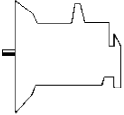

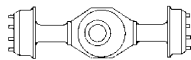



8x4 = Vehicles with four axles: first and second steering axles, third and fourth driving axles (in tandem)

8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)

⊕ = With Duo-Duplex drum brakes

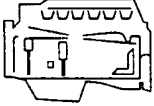

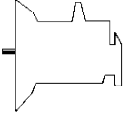
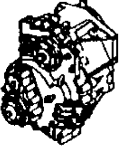

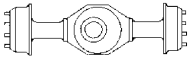
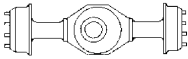


\* = "South America - Outside Europe" heavy-duty mission

**COMPOSITION OF MODELS**

		MODELS 8X4X4											
ASSEMBLIES		MP 340 E 38 H	MP 340 E 38 H/P	MP 340 E 44 H	MP 410 E 38 H	MP 410 E 38 H *	MP 410 E 44 H	MP 340 E 38 HB	MP 340 E 44 HB	MP 340 E 38 HB/P	MP 410 E 38 HB	MP 410 E 44 HB	MP 410 E 48 H
	F3BE0681G (380 CV)	•	•		•	•		•		•	•		
	F3BE0681C (440 CV)			•			•		•			•	
	F3BE0681E (480 CV)												•
	Single disc 17"	•	•	•	•	•	•	•	•	•	•	•	•
	ZF 16S 151 O.D.	•	•		•			•		•	•		
	ZF 16S 181 O.D.			•			•		•			•	
	ZF 16S 221 O.D.					•							•
	EUROTRONIC 16 AS 2601 O.D.	•	•	•	•		•	•	•	•	•	•	•
	1° 5886/D □	•	•	•	•	•	•	•	•	•	•	•	•
	2° 5886/2D ◆				•		•				•	•	•
	MIDDLE RT 153E/2D ⊕	•	•							•			
	REAR RT 153E/2D ⊕	•	•							•			
	MIDDLE 452191/2D ⊕	•		•					•				
	REAR 452191/2D ⊕	•		•					•				
	MIDDLE 453291/2D ⊕				•	•	•					•	•
	REAR 453291/2D ⊕				•	•	•					•	•
	MIDDLE 452146/2D ⊕							•					
	REAR 452146/2D ⊕							•					
	ZF 8099/1,5	•	•	•	•	•	•	•	•	•	•	•	•
	Front mechanical	•	•	•	•	•	•	•	•	•	•	•	•
	Rear mechanical	•		•	•	•	•	•	•		•	•	•
	Rear pneumatic		•							•			

- 4x4 = Vehicles with two axles with front and rear driving axle
- 6x4 = Vehicles with three axles with two rear driving axles (in tandem)
- 6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)
- 8x4 = Vehicles with four axles: first and second steering axles, third and fourth driving axles (in tandem)
- 8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)
- = With disc brakes
- ◆ = On demand, with Duo-Duplex drum brakes for 20" wheel rims
- ⊕ = With Duo-Duplex drum brakes
- \* = "South America - Outside Europe" heavy-duty mission

## COMPOSITION OF MODELS

		MODELS 8X8	MP 410 E 44 W
ASSEMBLIES			
	F3BE0681C (440 CV)		•
	Single disc 17"		•
	ZF 16S 181 O.D.		•
	EUROTRONIC 16 AS 2601 O.D.		•
	TC 2200		•
DRIVING AXLE			•
	MIDDLE 5985 M ⊕		•
REAR AXLE			•
	MIDDLE 453291/2D ⊕		•
	REAR 453291/2D ⊕		•
	ZF 8099/1,5		•
	Front mechanical		•
	Rear mechanical		•

4x4 = Vehicles with two axles with front and rear driving axle

6x4 = Vehicles with three axles with two rear driving axles (in tandem)

6x6 = Vehicles with three axles with front axle and two rear driving axles (in tandem)







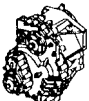

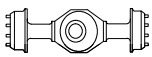
8x4 = Vehicles with four axles: first and second steering axles, third and fourth driving axles (in tandem)

8x8 = Vehicles with four driving axles with first and second steering axles and two rear axles (in tandem)

⊕ = With Duo-Duplex drum brakes

\* = "South America - Outside Europe" heavy-duty mission

## REPLENISHING FLUIDS

LUBRICANTS RECOMMENDED BY IVECO	PARTS FOR REPLENISHING	Quantity		
		Litres	kg	
 Urania Turbo LD 5	 Engine F3B	Total capacity 1 <sup>st</sup> filling	35	31.5
		Capacity:		
		- engine sump at minimum level	20	18
		- engine sump at maximum level	28	25.2
		- quantity in circulation that does not return to sump	7	6.3
	- quantity contained in cartridge filters (to add when changing the cartridge filters)	3	2.7	
 Tutela ZC 90	 Gearbox	ZF 16 S 151 O.D.*	11	10
		ZF 16 S 151 O.D. + Intarder*	18.5	16.65
		ZF 16 S 181 O.D.*	13	12
		ZF 16 S 181 O.D. + Intarder*	21.5	19.35
		ZF 16 S 221 O.D.*	13	12
		ZF 16 S 221 O.D. + Intarder*	21.5	19.35
		EUROTRONIC 16 AS 2601 O.D.*	12	11
		EUROTRONIC 16 AS 2601 O.D. + Intarder*	23	21
	* Periodical change			
 Tutela ZC 90	"Multipower" power take-off	3	2.7	
 Tutela ZC 90	 Reduction gear divider	TC 1800	6.5	5.5
		TC 2200	6.5	5.5
 Tutela WI 40/M - DA	 Front axle 5886/D - 2D (for each hub)	Front axle 5985/2D	5	4.5
		Front axle wheel reduction gear 5985/2D	0.75	0.68
		Rear axle 451391/2D	16	14.5
		Rear axle in tandem 453291/2D (middle + transmission)	27	24.3
		452191/2D		
		Rear axle in tandem 453291/2D (rear)	16	14.5
		452191/2D		
Rear axle in tandem 452146/2D (middle + transmission)	13	11.7		
Rear axle in tandem 452146/2D (rear)	11.5	10.5		