

**CHANGE IN THE PINION BEARING IN FRMP-13/16 AND FSMP-14
AXLES WITH MP-330 DRIVE GEARS**

Change:

In MP-330 Drive Gears the pinion axle shaft diameter has increased from 68 mm to 76 mm. This causes changes in part numbers of the ring & pinion gear sets, pinion bevel gears, pinion bearings, spacer rings, adjusting shims and in the pinion bearing housings. The change is to increase the service life of the gearing.

Identify & Date of Change:

The reinforced pinion bearing have been taken/will be taken in production gradually depending of the ratio.

The axle product codes have been changed also. See separate list.

Interchangeability:

The drive gears are interchangeable as complete units.

Part numbers of the earlier drive gears are type 144/544-201/203-XXXX)

Part numbers of the drive gears with the reinforced pinion bearing are type 544-301-XXXX).

In repairs the earlier type drive gear can be modified to be comparable with new drive gear with the reinforced pinion bearing by changing the parts according to the list in the next page.

Changing Parts in Drive Gears:

| Resulting Gear Changes | | | | | |
|-----------------------------------|--------------------------|---------------------|-----------------------------------|--------------------------|----------------------|
| Old Gear Sets | | | New Gear Sets | | |
| Ring & Pinion Gear Set | Pinion Bevel Gear | Req'd / Axle | Ring & Pinion Gear Set | Pinion Bevel Gear | Overall Ratio |
| 143-240-3311 | 144-261-1910 | 1 | 543-240-6111 | 544-261-3100 | 4,09 |
| 143-240-3311 | 144-261-2010 | 1 | 543-240-6111 | 544-261-3000 | 4,30 |
| 143-240-3311 | 144-261-1900 | 1 | 543-240-6111 | 544-261-3010 | 4,68 |
| 143-240-3321 | 144-261-1900 | 1 | 543-240-6121 | 544-261-3010 | 5,56 |
| 543-240-3359 | 144-261-1900 | 1 | 543-240-6159 | 544-261-3010 | 5,25 |
| 143-240-3329 | 144-261-1900 | 1 | 543-240-6129 | 544-261-3010 | 6,36 |
| 143-240-3319 | 144-261-1900 | 1 | 543-240-6119 | 544-261-3010 | 7,01 |
| 143-240-3351 | 144-261-1900 | 1 | 543-240-6151 | 544-261-3010 | 8,79 |
| 143-240-3381 | 144-261-1900 | 1 | 543-240-6181 | 544-261-3010 | 10,55 |

| Resulting Associated Parts Changes | | | | | |
|---|----------------------|---------------------|-----------------|----------------------|---------------------|
| Old | | | New | | |
| Part No. | Description | Req'd / Axle | Part No. | Description | Req'd / Axle |
| 144-211-1300 | Housing w/o pump | 1 | 544-211-1900 | Housing w/o pump | 1 |
| 144-211-1310 | Housing w/pump | 1 | 544-211-1910 | Housing w/pump | 1 |
| 91744-00681 | Bearing | 1 | 591744-00760 | Bearing | 1 |
| 090-110-6740 | Bearing Cone | 1 | 591744-10754 | Bearing Cone *) | 1 |
| 090-121-3700 | Bearing Cup | 1 | 591744-21451 | Bearing Cup *) | 1 |
| 143-261-0700 | Spacer Ring 94.20 mm | As Req'd | 543-261-1300 | Spacer Ring 89.00 mm | As Req'd |
| 143-261-0701 | Spacer Ring 94.15 mm | As Req'd | 543-261-1301 | Spacer Ring 89.02 mm | As Req'd |
| 143-261-0702 | Spacer Ring 94.18 mm | As Req'd | 543-261-1302 | Spacer Ring 89.05 mm | As Req'd |
| 143-261-0703 | Spacer Ring 94.12 mm | As Req'd | 543-261-1303 | Spacer Ring 89.08 mm | As Req'd |
| 099-516-7000 | Shim 0.10 mm | As Req'd | 590731-07510 | Shim 0.10 mm | As Req'd |
| 099-516-7001 | Shim 0.30 mm | As Req'd | 590731-07530 | Shim 0.30 mm | As Req'd |
| 099-516-7002 | Shim 0.50 mm | As Req'd | 590731-07550 | Shim 0.50 mm | As Req'd |
| 099-516-7003 | Shim 0.25 mm | As Req'd | 590732-07510 | Shim 1.00 mm | As Req'd |

*) Part No. for the complete Taper Roller Bearing is 591744-00754.

Customer: Fabco

APPENDIX FOR SERVICE BULLETIN S11004 (CHANGE IN THE PINION BEARING IN FRMP-13/16 AND FSMP-14AXLES WITH MP-330 DRIVE GEARS)**The Dates of the Reinforcement per Axle Total Ratio:**

| Total Ratio: | First Serial No.: | Date: |
|---------------------|--------------------------|--------------|
| 4.68 | 01581 | 5/2000 |
| 5.56 | 00144 | 1/2001 |
| 6.36 | 10259 | 1/2001 |
| 7.01 | 11473 | 4/2001 |
| 8.79 | 130377 | 2/2003 |
| 10.55 | 22983 | 11/2002 |