

# CATERPILLAR D6K2 LGP

JTR / SEBP4996

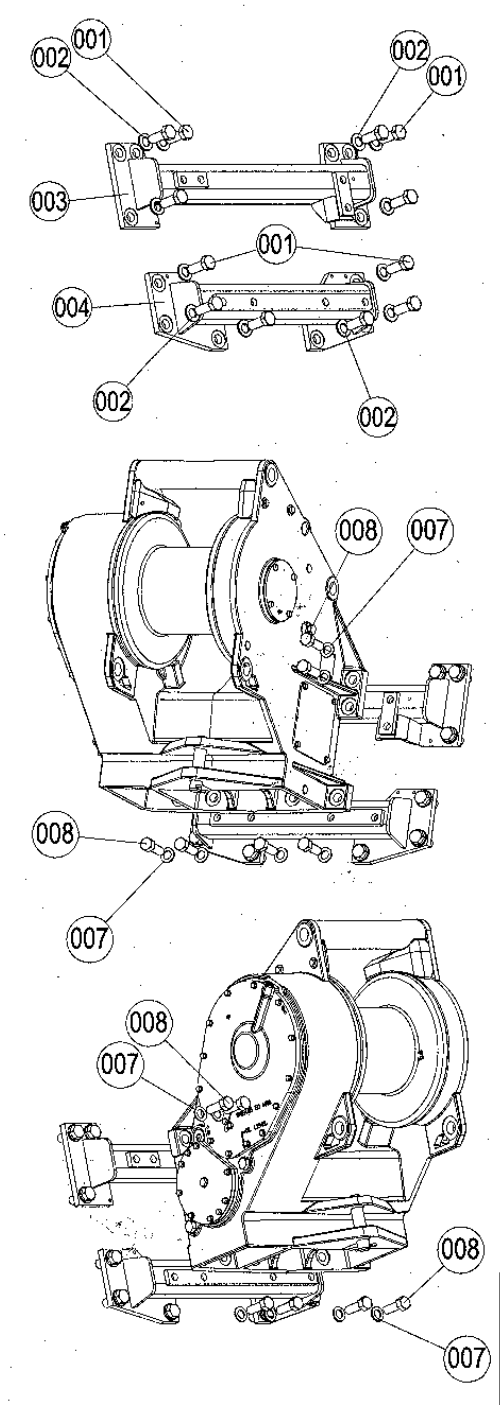
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MOUNTING GROUP

MOUNTING GROUP

Drawing 1 of 2



## MOUNTING GROUP (continued)

Drawing 2 of 2

### MOUNTING GROUP INSTRUCTIONS

#### **⚠ WARNING ⚠**

Winch and adapters weigh approximately 1,400 lb (635 kg). Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury or death.

1. Remove paint, rust, dirt and grease from mounting surfaces of tractor, winch and winch adapters.
2. Apply Loctite 242 or equivalent to threads of bolts (items 2 & 8.)
3. Install adapter brackets (items 3 & 4) to tractor using adapter mounting capscrews and lockwashers (items 1 & 2). Do not torque bolts at this stage.
4. Support entire winch with a certified lifting sling. Raise winch parallel to brackets (items 3 & 4.)
5. Apply Loctite 242 or equivalent to threads of capscrews, (item 8,) and fasten winch to adapter brackets.
6. Torque adapter mounting bolts (item 2) to \*100 FT-LB (135 N.m)
7. Torque winch mounting bolts to (item 8) to \*100 FT-LB (135 N.m)
8. All slack should now be removed between mating surfaces. If mounted winch is mis-aligned, loosen fasteners and repeat process.
9. Finally torque bolts to the following spec:
  - A) Capscrew Item 2 to \*680 FT-LB (920 N.m)
  - B) Capscrew Item 8 to \*680 FT-LB (920 N.m)

**\*NOTE:** Torque Values are for plated fasteners using Loctite 242 or equivalent.

**\*NOTE:** Where torque wrench access is limited, tighten all capscrews to remove slack (approx. 100 FT-LB.) Then turn bolt an additional 1/4 turn; this should provide adequate fastener preload.

#### **⚠ WARNING ⚠**

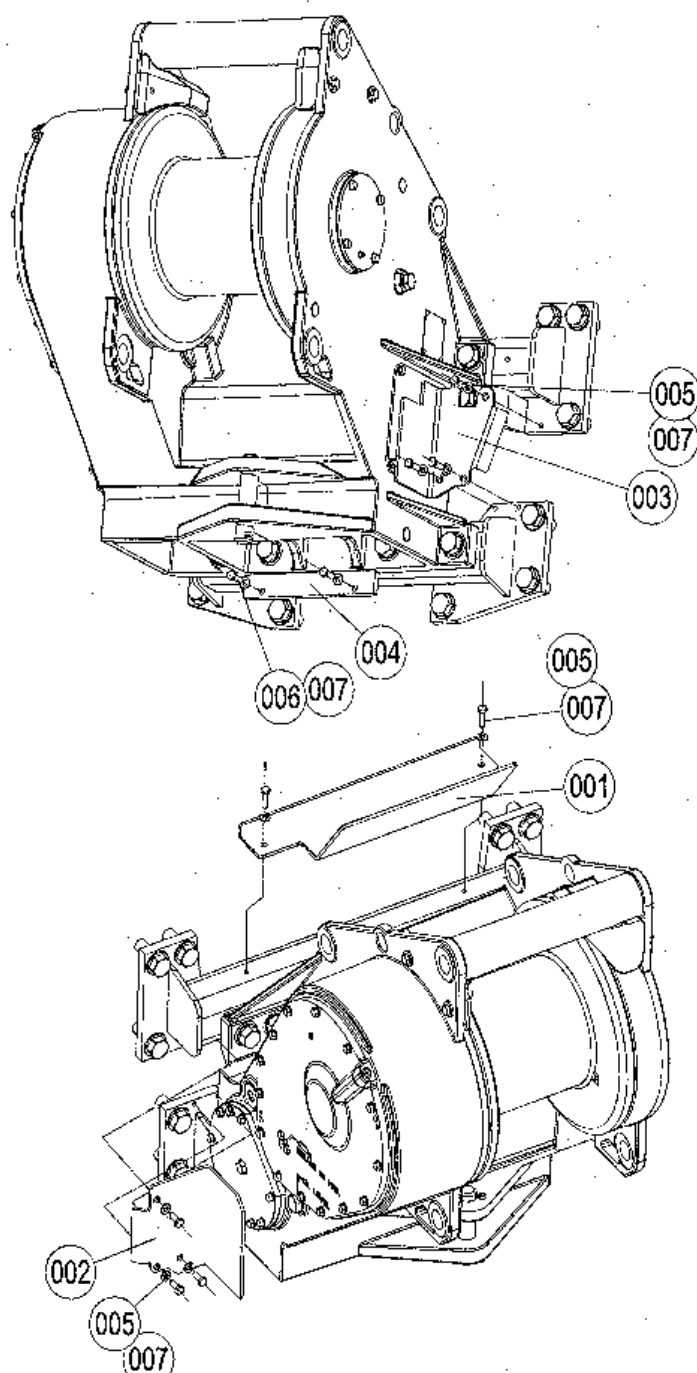
Fill winch to proper level with recommended oil **BEFORE** starting tractor. Winch bearing and gear damage may result if tractor is run without oil in winch.

| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 1    | 8T-5379     | CAPSCREW        | 12  |      |            |
| 2    | 8T-4167     | WASHER          | 12  |      |            |
| 3    | 297-1437    | ADAPTER (UPPER) | 1   |      |            |
| 4    | 297-1438    | ADAPTER (LOWER) | 1   |      |            |
| 7    | 8T-5361     | WASHER          | 8   |      |            |
| 8    | 7X-0405     | CAPSCREW        | 8   |      |            |

## GUARD GROUP

### GUARD GROUP

Drawing 1 of 2



GUARD GROUP (continued)

Drawing 2 of 2

GUARD GROUP INSTALLATION INSTRUCTIONS

1. It is advisable to install all guards as a final installation step. Access to winch motor area will need to be open for installation of hydraulic lines and control electronic harness.
2. Apply locktite 242 or equivalent to capscrews, items 5 & 6.
3. Install guards 1, 2, 3, & 4 using capscrews and lockwashers (items 5,6, & 7.)
4. Torque capscrews to \*35 FT-LB (47 N.m).

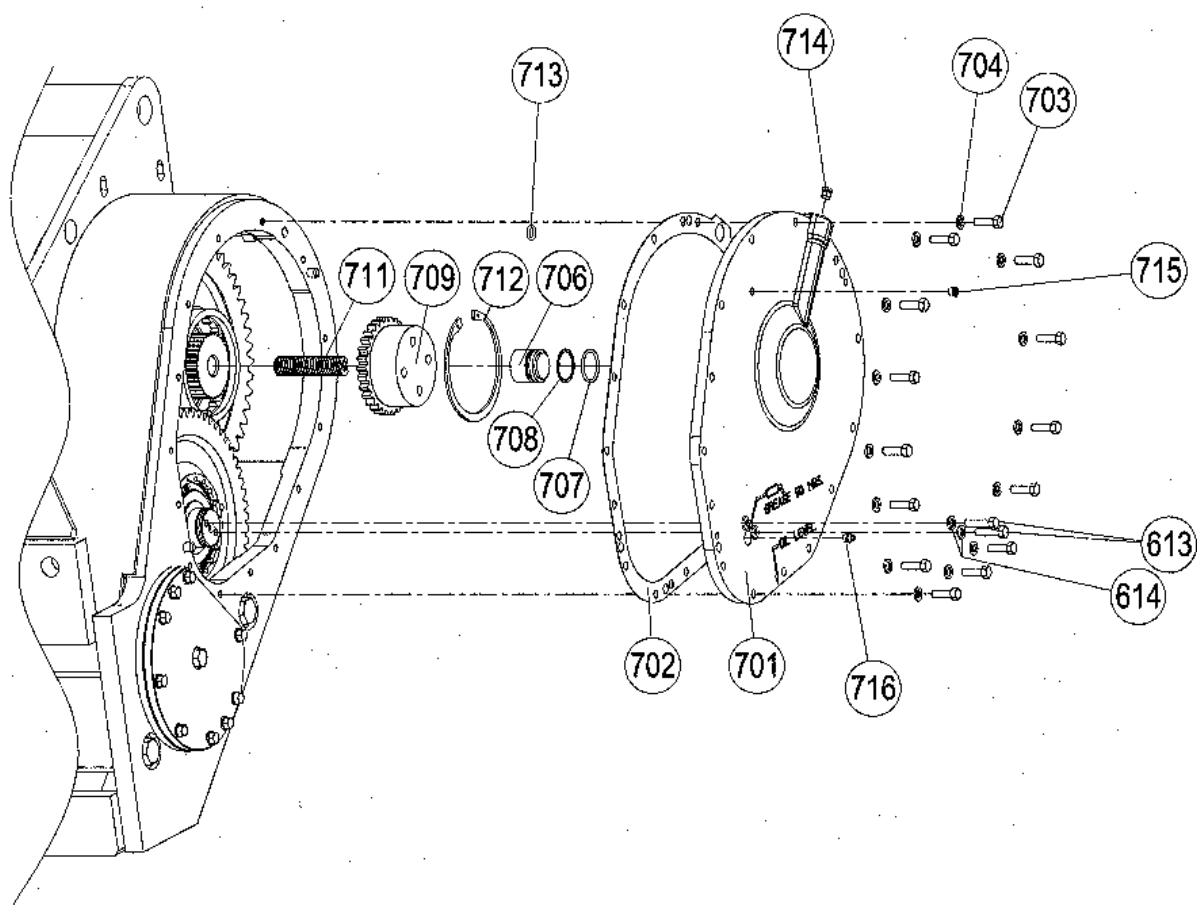
**\*NOTE:** Torque Values are for plated fasteners using Loctite 242 or equivalent.

| Ref. | Part number | Description | Qty | Code | Group page |
|------|-------------|-------------|-----|------|------------|
| 1    | 297-1432    | UPPER GUARD | 1   |      |            |
| 2    | 297-1433    | LEFT GUARD  | 1   |      |            |
| 3    | 297-1434    | RIGHT GUARD | 1   |      |            |
| 4    | 297-1435    | LOWER GUARD | 1   |      |            |
| 5    | 8T-4136     | CAPSCREW    | 8   |      |            |
| 6    | 8T-4196     | CAPSCREW    | 2   |      |            |
| 7    | 8T-4121     | WASHER      | 10  |      |            |

# FREESPOOL GROUP

## FREESPOOL GROUP

Drawing 1 of 1



| Ref. | Part number | Description                 | Qty | Code | Group page |
|------|-------------|-----------------------------|-----|------|------------|
| 613  | 4L-9337     | CAPSCREW (3/8-16X1" GD8)    | 2   |      |            |
| 614  | 8T-4896     | HARD WASHER (3/8 INCH)      | 2   |      |            |
| 700  | 208-5552    | FREESPOOL GROUP             | 1   |      |            |
| 701  | 211-1856    | GEAR COVER                  | 1   |      |            |
| 702  | 203-6640    | GEAR COVER GASKET           | 1   |      |            |
| 703  | 9B-7237     | CAPSCREW (3/8-16X1 1/4 GD8) | 14  |      |            |
| 704  | 8T-4896     | HARD WASHER                 | 14  |      |            |
| 706  | 172-0307    | FREESPOOL PISTON ASSEMBLY   | 1   |      |            |
| 707  | 8M-4986     | O-RING                      | 1   |      |            |
| 708  | 162-2766    | BACK-UP RING                | 1   |      |            |
| 709  | 161-6422    | FREESPOOL CLUTCH            | 1   |      |            |
| 711  | 162-0175    | FREESPOOL SPRING            | 1   |      |            |
| 712  | 162-0180    | RETAINING RING              | 1   |      |            |
| 713  | 3H-3385     | O-RING                      | 1   |      |            |

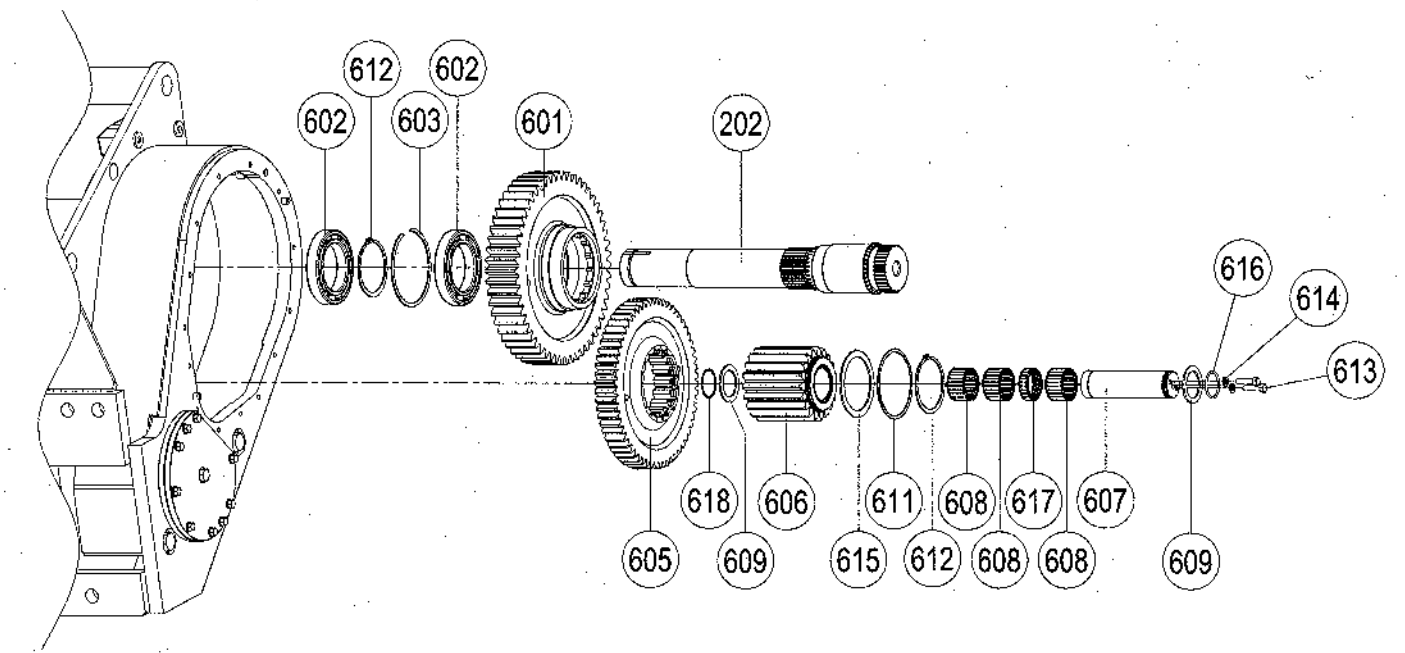
FREESPOOL GROUP (continued)

| Ref. | Part number | Description            | Qty | Code | Group page |
|------|-------------|------------------------|-----|------|------------|
| 714  | 9S-8002     | PLUG                   | 1   |      |            |
| 715  | 6U-1989     | RELIEF VALVE (1-5 PSI) | 1   |      |            |
| 716  | 3B-8489     | GREASE FITTING         | 1   |      |            |

GEAR GROUP

GEAR GROUP

Drawing 1 of 1

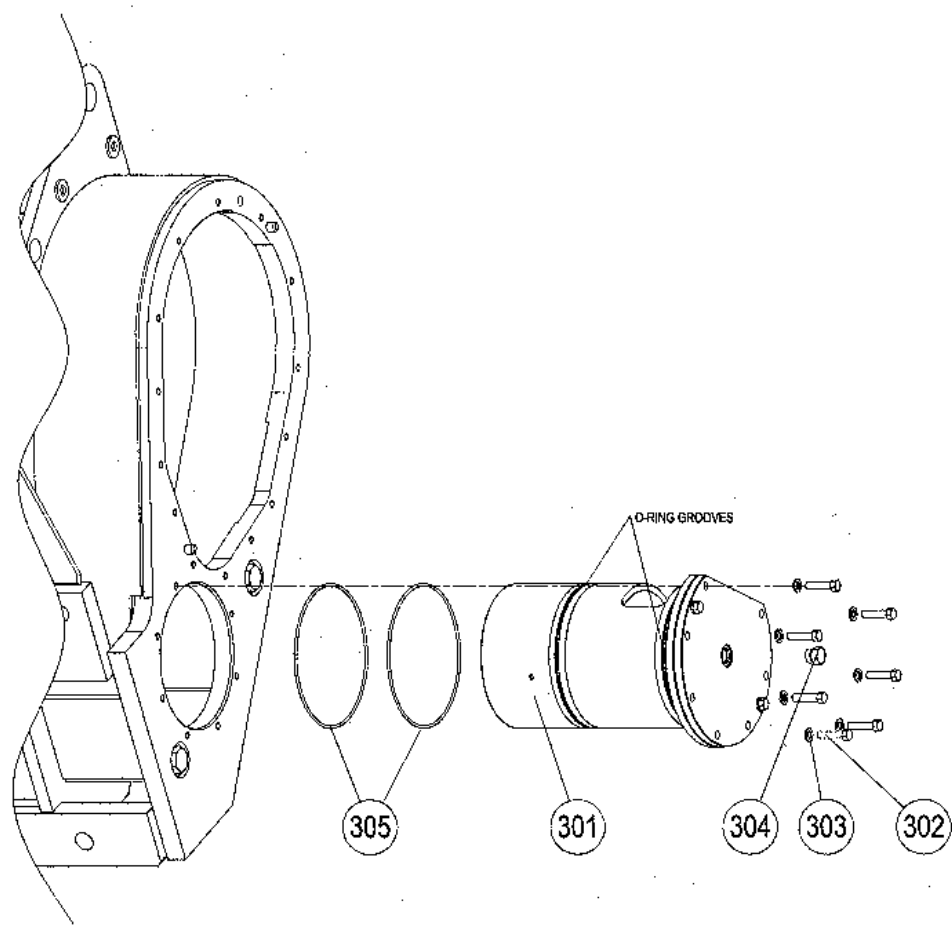


| Ref. | Part number | Description              | Qty | Code | Group page |
|------|-------------|--------------------------|-----|------|------------|
| 600  | 208-5551    | GEAR GROUP               | 1   |      |            |
| 601  | 161-6424    | BULL GEAR                | 1   |      |            |
| 602  | 162-0178    | BALL BEARING             | 2   |      |            |
| 603  | 162-0179    | SNAP RING                | 1   |      |            |
| 606  | 161-6425    | SECOND REDUCTION GEAR    | 1   |      |            |
| 607  | 203-6639    | GEAR SHAFT               | 1   |      |            |
| 608  | 5S-6174     | BEARING                  | 3   |      |            |
| 609  | 123-4410    | THRUST RACE              | 2   |      |            |
| 605  | 161-6427    | FIRST REDUCTION GEAR     | 1   |      |            |
| 611  | 162-2772    | RETAINING RING           | 1   |      |            |
| 612  | 119-1616    | RETAINING RING           | 2   |      |            |
| 613  | 4L-9337     | CAPSCREW (3/8-16X1" GD8) | 2   |      |            |
| 614  | 8T-4896     | HARD WASHER (3/8 INCH)   | 2   |      |            |
| 615  | 161-8041    | WASHER                   | 1   |      |            |
| 616  | 129-7301    | O-RING                   | 1   |      |            |
| 617  | 172-2437    | NEEDLE ROLLER BEARING    | 1   |      |            |
| 618  | 1M-7914     | EXTERNAL RETAINING RING  | 1   |      |            |

CARTRIDGE ASSEMBLY

CARTRIDGE ASSEMBLY

Drawing 1 of 1

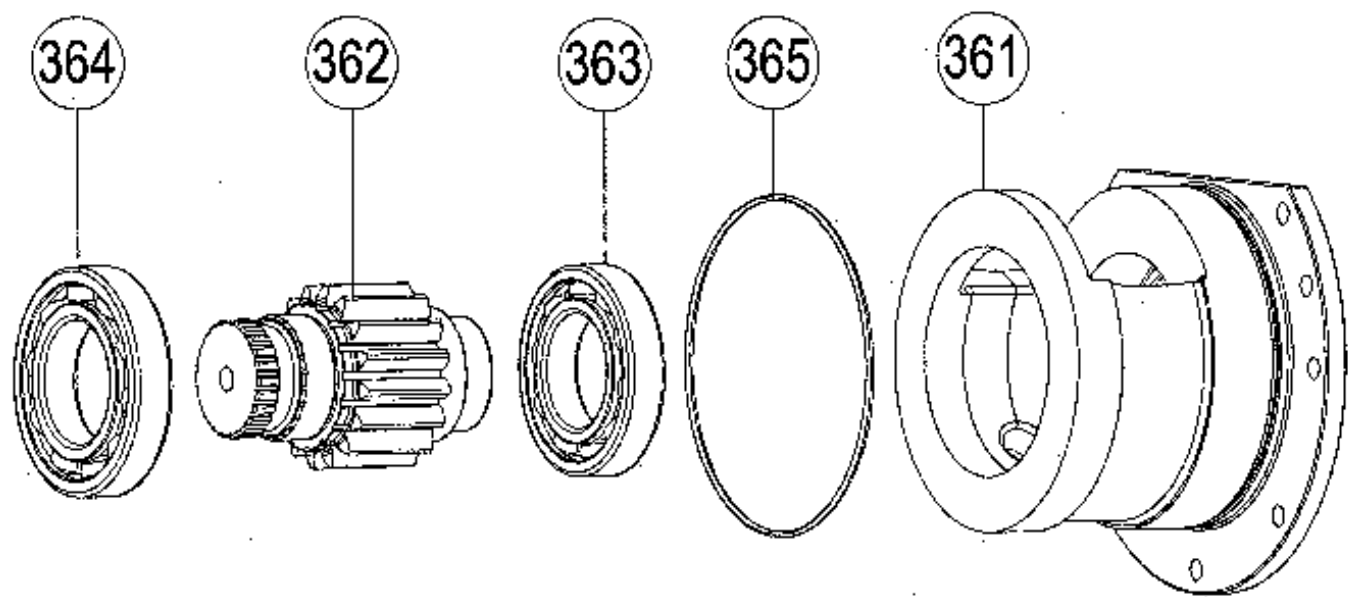


| Ref. | Part number | Description                       | Qty | Code | Group page |
|------|-------------|-----------------------------------|-----|------|------------|
| 301  | 211-8166    | CARTRIDGE GROUP (REFER TO PAGE 7) | 1   |      |            |
| 302  | 7X-0288     | CAPSCREW (3/8-16X1 5/8 GD8)       | 7   |      |            |
| 303  | 8T-4896     | WASHER (HARD)                     | 7   |      |            |
| 304  | 9S-8005     | PLUG (O-RING FLUSH)               | 1   |      |            |
| 305  | 119-1586    | O-RING                            | 2   |      |            |

PINION AND CARRIER GROUP

PINION AND CARRIER GROUP

Drawing 1 of 1



| Ref. | Part number | Description     | Qty | Code | Group page |
|------|-------------|-----------------|-----|------|------------|
| 361  | 203-6632    | BEARING CARRIER | 1   |      |            |
| 362  | 203-6633    | PINION          | 1   |      |            |
| 363  | 1F-2771     | BALL BEARING    | 1   |      |            |
| 364  | 1S-3743     | BALL BEARING    | 1   |      |            |
| 365  | 9F-1399     | O-RING          | 1   |      |            |

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