



## Fabco TC-170 Transfer case Parts Manual

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# **FABCO TC-170 & TC-170 PD TRANSFER CASE PARTS MANUAL**

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## VII. PARTS MANUAL

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### TO USE THIS PARTS MANUAL

1. Refer to the view which illustrates the needed part.
2. Find the Required part in the view and then note the item number.
3. Locate the item number in the parts list for part number, description, and quantity.

**NOTE: When ordering parts, specify model number, part number, serial number or other information that is on the Fabco nameplate located on the transfer case housing.**

Part numbers contained in this manual were in effect at the time the manual was approved for printing and are subject to change without notice or liability. Fabco Automotive Corporation reserves the right to change parts at anytime.

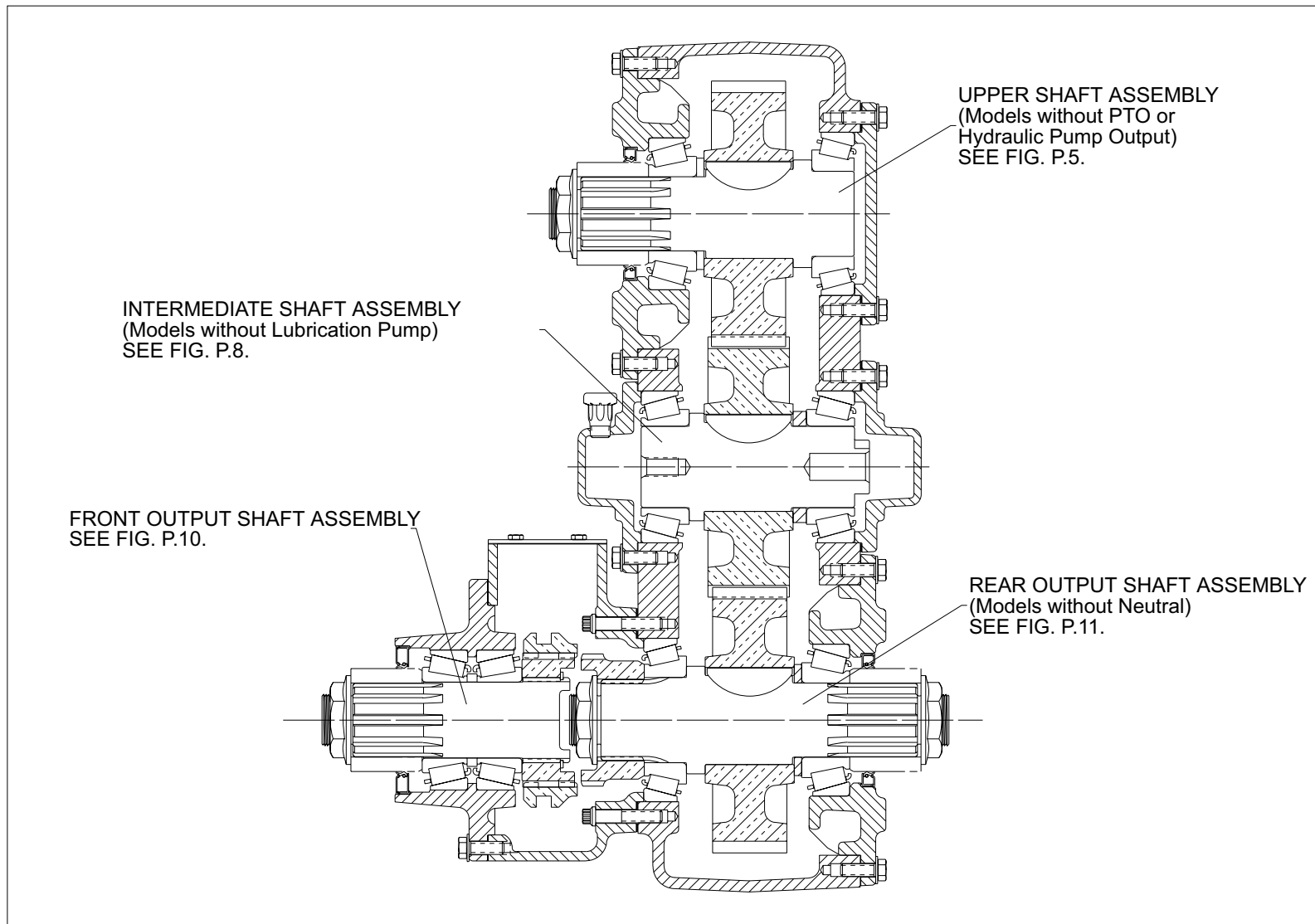
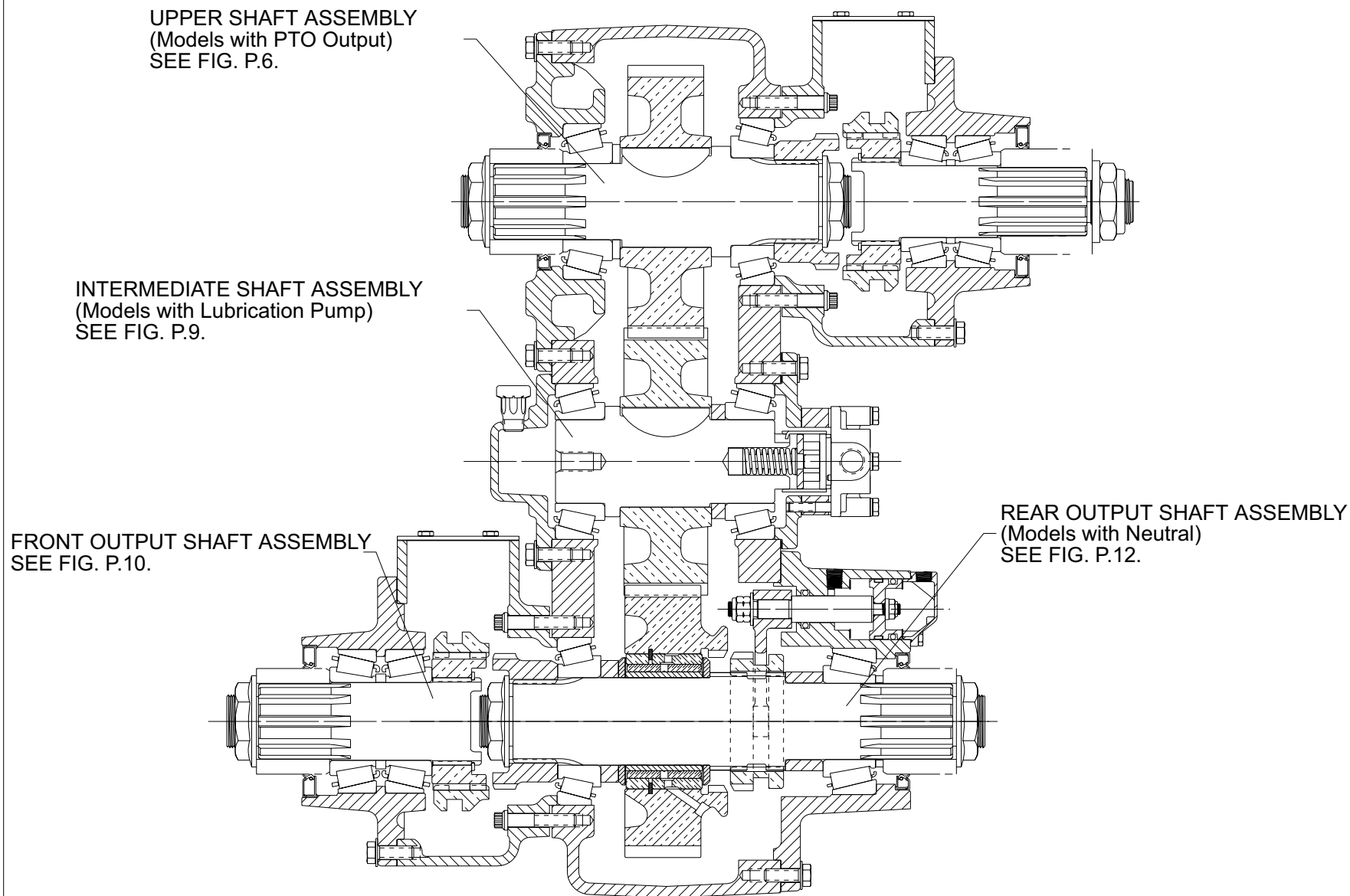


FIG P.1 - TYPICAL TC-170 BASIC TRANSFER CASE



**FIG P.2 -TYPICAL TC-170 BASIC TRANSFER CASE  
(SHOWN WITH NEUTRAL, PTO, AND LUBRICATION PUMP)**

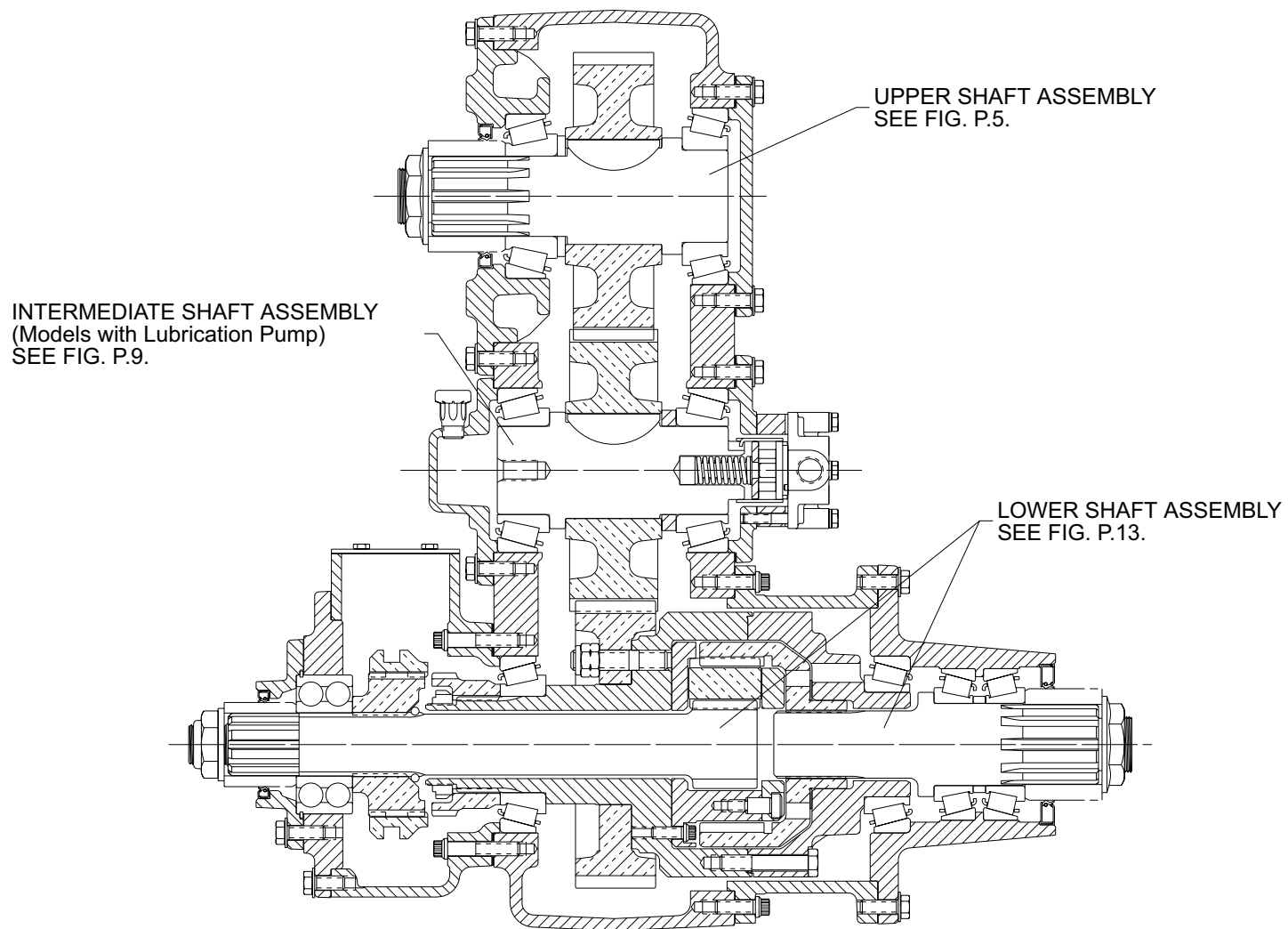


FIG P.3 - TYPICAL TC-170 P.D. TRANSFER CASE (with 33/67 PROPORTIONAL DIFFERENTIAL)

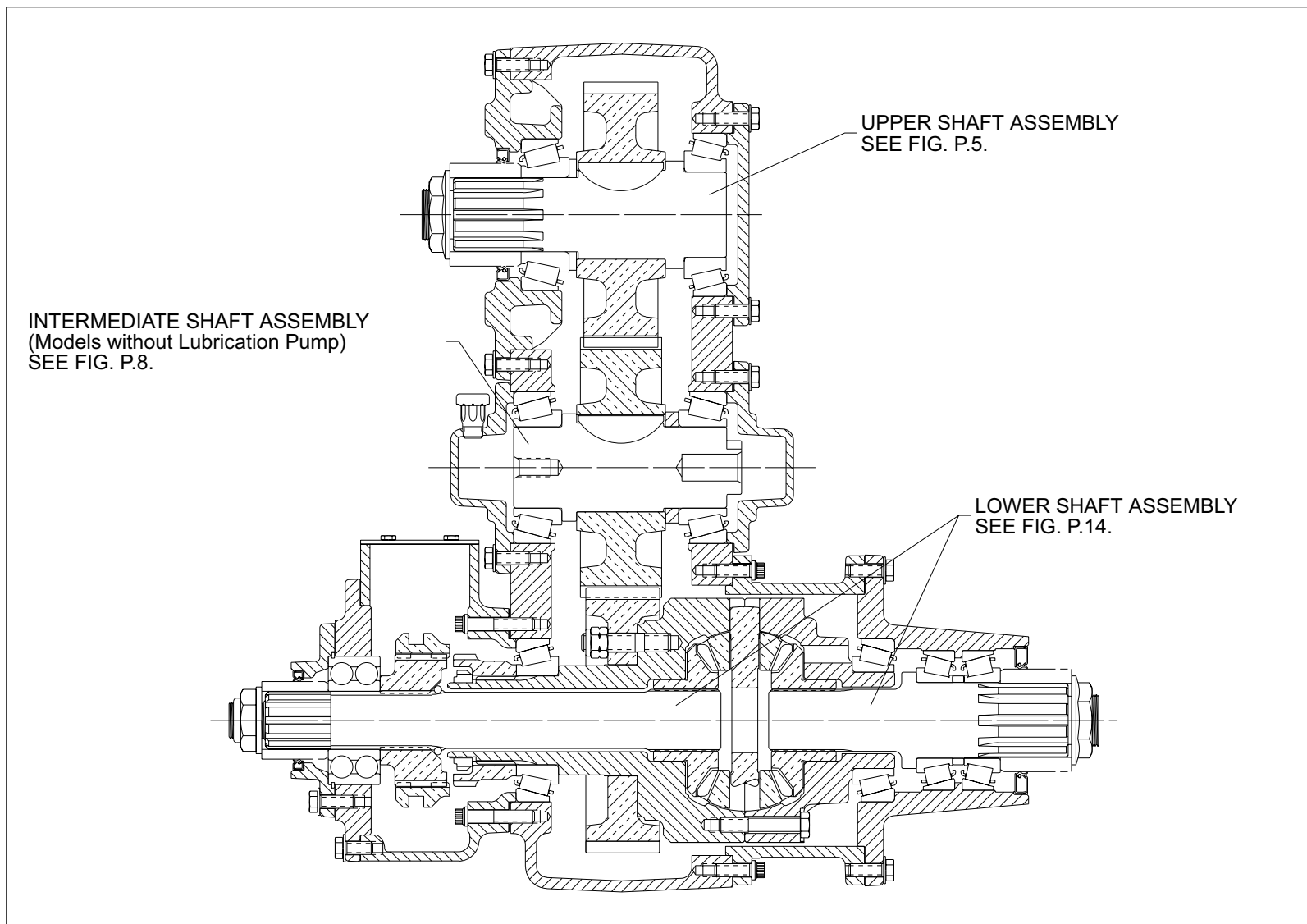


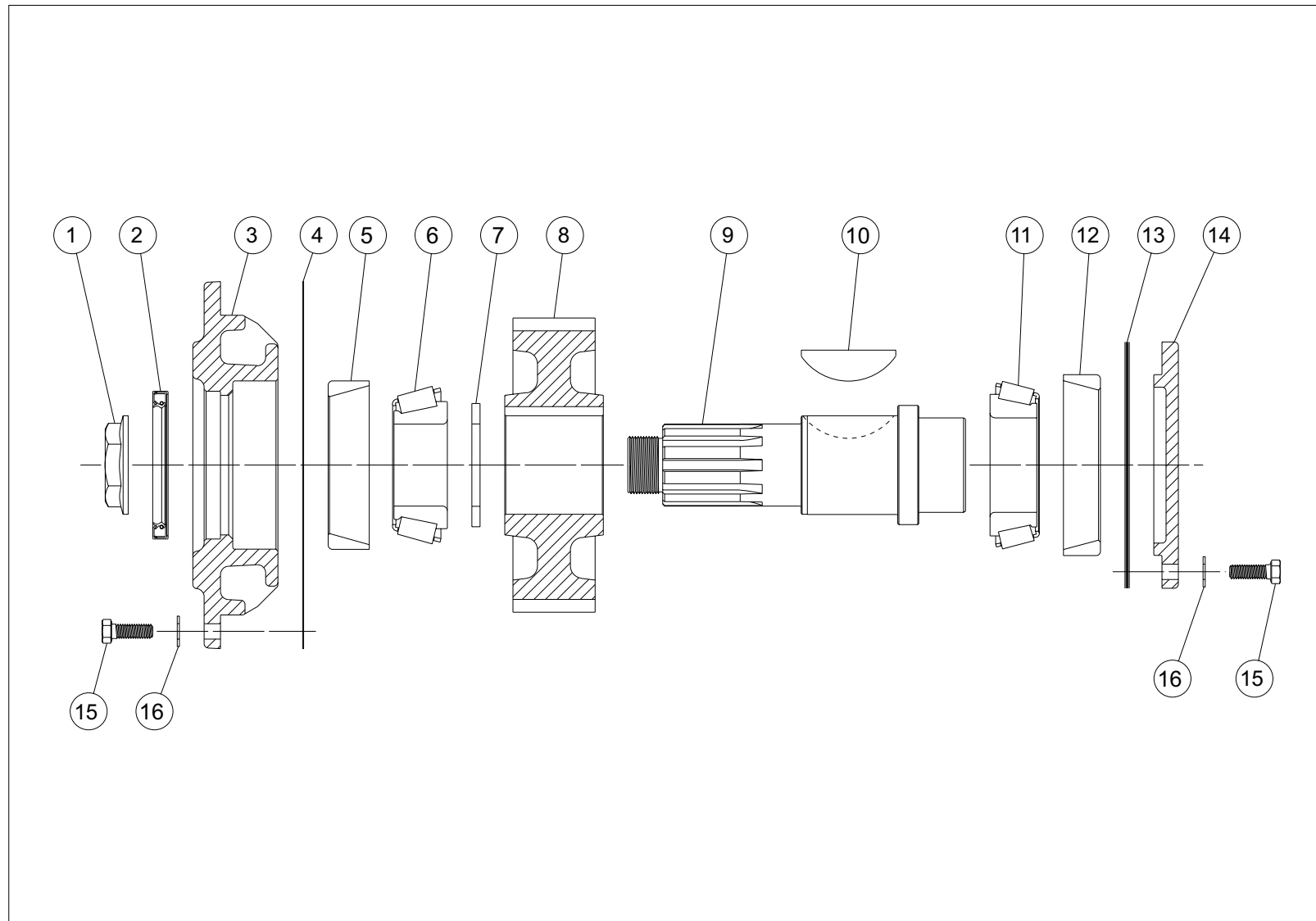
FIG P.4 - TYPICAL TC-170 P.D. TRANSFER CASE (with 50/50 PROPORTIONAL DIFFERENTIAL)

**TC-170/TC-170 P.D. UPPER SHAFT ASSEMBLY**  
**Models without PTO or Hydraulic Pump Output.**  
**See Fig. P.5.**

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                          | <u>QTY.</u> | <u>FOOT<br/>NOTE</u> |
|-------------|-----------------|---------------------------------------------|-------------|----------------------|
| 1           | 688-0738        | Locknut, 1 3/4-12                           | 1           |                      |
| 2           | 732-0355        | Oil Seal                                    | 1           |                      |
| 3           | 237-0542-001    | Carrier                                     | 1           | 1                    |
|             | 237-0542-003    | Carrier                                     | 1           | 2                    |
| 4           | 427-0523        | Gasket                                      | 1           |                      |
| 5           | 233-0492        | Bearing Cup                                 | 1           |                      |
| 6           | 233-0493        | Bearing Cone                                | 1           |                      |
| 7           | 927-0797        | Washer<br>( 3.75 OD x 2.51 ID x .25 Thick ) | 1           |                      |
| 8           | 432-0628        | Gear                                        | 1           |                      |
| 9           | 776-0229        | Shaft                                       | 1           |                      |
| 10          | 966-0326        | Woodruff Key                                | 1           |                      |
| 11          | 233-0489        | Bearing Cone                                | 1           |                      |
| 12          | 233-0375        | Bearing Cup                                 | 1           |                      |
| 13          | 744-0278        | Shim, .030 Coral                            | A/R         | 3                    |
|             | 744-0279        | Shim, .015 Pink                             | A/R         | 3                    |
|             | 744-0282        | Shim, .005 Blue                             | A/R         | 3                    |
|             | 744-0283        | Shim, .002 Red                              | A/R         | 3                    |
| 14          | 235-0568-001    | Cap                                         | 1           | 1                    |
|             | 235-0568-002    | Cap                                         | 1           | 2                    |
| 15          | 265-0238        | Cap, Screw, 7/16-14 x 1 1/4 Hex Head        | 16          |                      |
| 16          | 927-0347        | Washer, 7/16 Flat                           | 16          |                      |

Footnotes:

1. Models without lubrication pump.
2. Models with lubrication pump.
3. See service manual.



**FIG P.5 - UPPER SHAFT ASSEMBLY**  
Models without PTO or Hydraulic Pump Output

**TC-170 UPPER SHAFT ASSEMBLY****Models with PTO Output.****See Fig. P.6.**

| ITEM | PART NO.     | DESCRIPTION                               | QTY. | FOOT<br>NOTE | ITEM | PART NO.     | DESCRIPTION                               | QTY. | FOOT<br>NOTE |
|------|--------------|-------------------------------------------|------|--------------|------|--------------|-------------------------------------------|------|--------------|
| 1    | 688-0738     | Locknut, 1 3/4-12                         | 2    |              | 18   | 792-0866     | Plate, Cover                              | 1    |              |
| 2    | 732-0355     | Oil Seal                                  | 1    |              | 19   | 427-0376     | Gasket                                    | 1    |              |
| 3    | 237-0542-003 | Carrier                                   | 1    |              | 20   | 432-0426     | Gear, Clutch Collar                       | 1    |              |
| 4    | 427-0523     | Gasket                                    | 1    |              | 21   | 762-0288     | Snap Ring                                 | 1    |              |
| 5    | 233-0492     | Bearing Cup                               | 1    |              | 22   | 776-0237     | Shaft                                     | 1    |              |
| 6    | 233-0493     | Bearing Cone                              | 1    |              | 23   | 432-0563     | Gear, Clutch                              | 1    |              |
| 7    | 927-0797     | Washer<br>(3.75 OD x 2.51 ID x .25 Thick) | 1    |              | 24   | 233-0523     | Bearing Cup and Cone Assy.                | 2    |              |
| 8    | 432-0628     | Gear                                      | 1    |              | 25   | 756-0233-003 | Ring, Bearing Spacer, .306                |      | 2            |
| 9    | 776-0233     | Shaft                                     | 1    |              |      | 756-0233-004 | Ring, Bearing Spacer, .311                |      | 2            |
| 10   | 966-0326     | Woodruff Key                              | 1    |              |      | 756-0233-005 | Ring, Bearing Spacer, .316                |      | 2            |
| 11   | 233-0489     | Bearing Cone                              | 1    |              |      | 756-0233-006 | Ring, Bearing Spacer, .321                |      | 2            |
| 12   | 233-0375     | Bearing Cup                               | 1    |              |      | 756-0233-007 | Ring, Bearing Spacer, .326                |      | 2            |
| 13   | 432-0634     | Gear, Clutch                              | 1    |              |      | 756-0233-008 | Ring, Bearing Spacer, .331                |      | 2            |
| 14   | 744-0278     | Shim, .030 Coral                          | A/R  | 1            |      | 756-0233-009 | Ring, Bearing Spacer, .336                |      | 2            |
|      | 744-0279     | Shim, .015 Pink                           | A/R  | 1            | 26   | 427-0375     | Gasket                                    | 1    |              |
|      | 744-0282     | Shim, .005 Blue                           | A/R  | 1            | 27   | 237-0393     | Carrier                                   | 1    |              |
|      | 744-0283     | Shim, .002 Red                            | A/R  | 1            | 28   | 732-0333     | Oil Seal                                  | 1    |              |
| 15   | 478-0232     | Housing, Declutch                         | 1    |              | 29   | 927-0775-005 | Washer<br>(2.69 OD x 1.54 ID x .25 Thick) | 1    |              |
| 16   | 724-0677     | Cap Screw,<br>7/16-14 x 2 1/4 12-pt. Head | 6    |              | 30   | 688-0694     | Locknut, 1 1/2-12                         | 1    |              |
| 17   | 265-0343     | Cap Screw<br>1/4-20 x 1/2 Hex Head        | 4    |              | 31   | 265-0238     | Cap Screw, 7/16-14 x 1 1/4<br>Hex Head    | 18   |              |
|      |              |                                           |      |              | 32   | 927-0347     | Washer, 7/16 Flat                         | 18   |              |

Footnotes:

1. See service manual.
2. Select one spacer ring. See service manual.

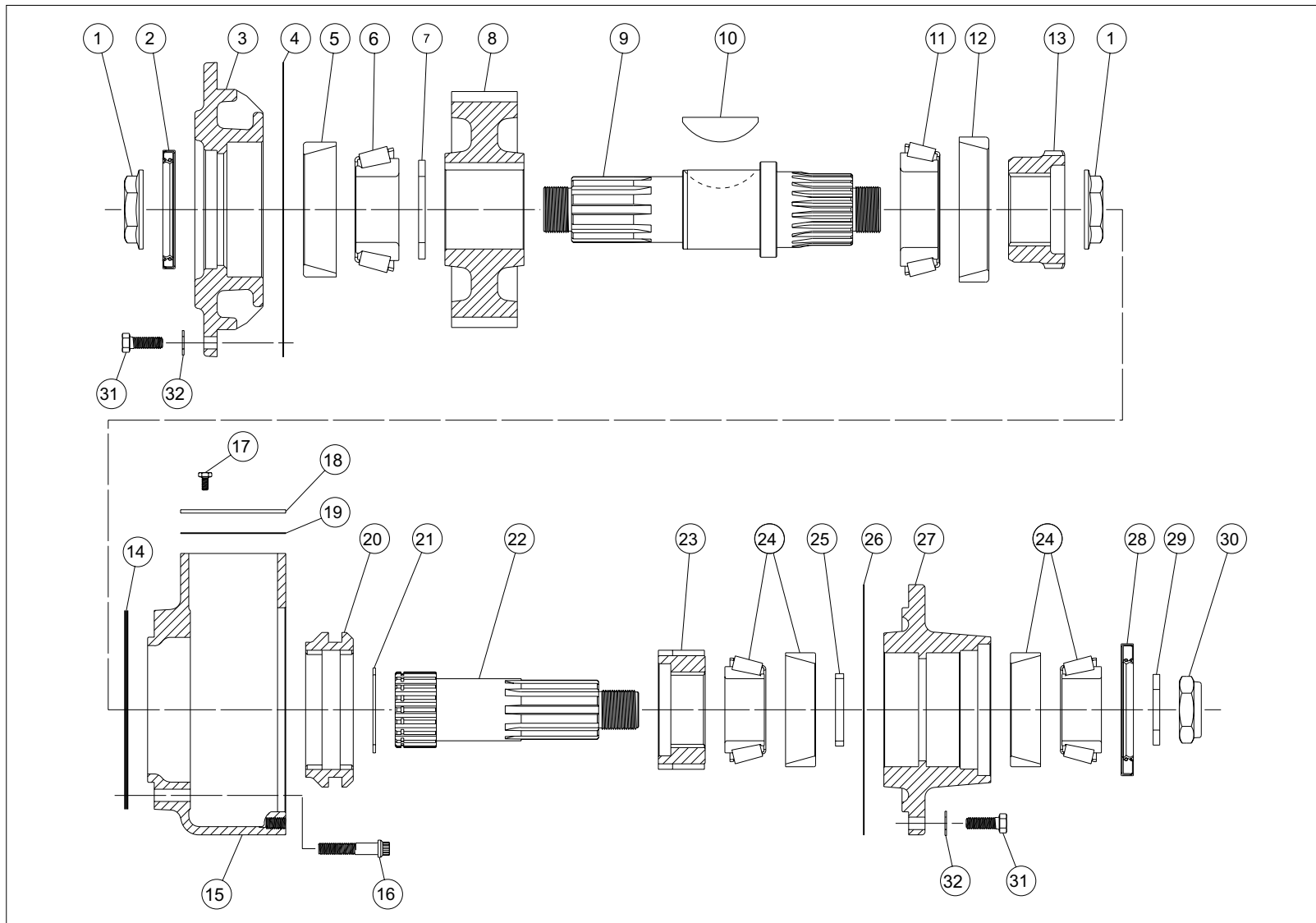


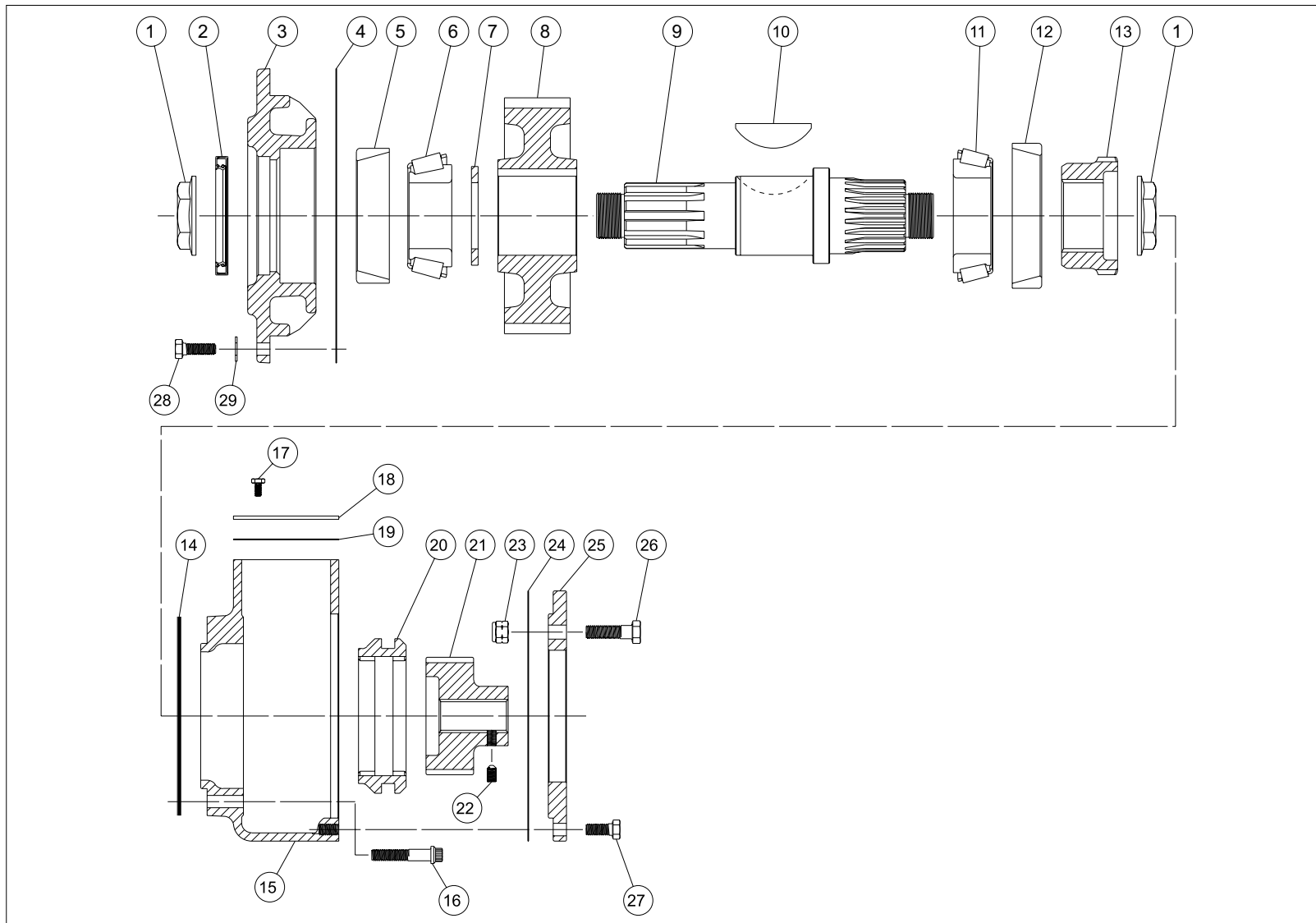
FIG P.6 - UPPER SHAFT ASSEMBLY  
Models with PTO Output

**TC-170 UPPER SHAFT ASSEMBLY**  
**Models with Hydraulic Pump Output.**  
**See Fig. P.7.**

| ITEM | PART NO.     | DESCRIPTION                               | QTY. | FOOT<br>NOTE | ITEM | PART NO. | DESCRIPTION                                      | QTY. | FOOT<br>NOTE |
|------|--------------|-------------------------------------------|------|--------------|------|----------|--------------------------------------------------|------|--------------|
| 1    | 688-0738     | Locknut, 1 3/4-12                         | 2    |              | 15   | 478-0232 | Housing, Declutch                                | 1    |              |
| 2    | 732-0355     | Oil Seal                                  | 1    |              | 16   | 724-0677 | Cap Screw, 7/16-14 x 2 1/4<br>12-pt. Head        | 6    |              |
| 3    | 237-0542-003 | Carrier                                   | 1    |              | 17   | 265-0343 | Cap Screw, 1/4-20 x 1/2<br>Hex Head              | 4    |              |
| 4    | 427-0523     | Gasket                                    | 1    |              | 18   | 792-0866 | Plate, Cover                                     | 1    |              |
| 5    | 233-0492     | Bearing Cup                               | 1    |              | 19   | 427-0376 | Gasket                                           | 1    |              |
| 6    | 233-0493     | Bearing Cone                              | 1    |              | 20   | 432-0426 | Gear, Clutch Collar                              | 1    |              |
| 7    | 927-0797     | Washer<br>(3.75 OD x 2.51 ID x .25 Thick) | 1    |              | 21   | 432-0494 | Gear, Pump Drive,<br>SAE "C" Spline              | 1    |              |
| 8    | 432-0628     | Gear                                      | 1    |              | 22   | 724-0244 | Set Screw, 3/8-16 x 5/8                          | 2    |              |
| 9    | 776-0233     | Shaft                                     | 1    |              | 23   | 688-0693 | Locknut, 1/2-13                                  | 4    |              |
| 10   | 966-0326     | Woodruff Key                              | 1    |              | 24   | 427-0375 | Gasket                                           | 1    |              |
| 11   | 233-0489     | Bearing Cone                              | 1    |              | 25   | 792-0867 | Plate, Pump Mounting                             | 1    |              |
| 12   | 233-0375     | Bearing Cup                               | 1    |              | 26   | 265-0229 | Bolt, 1/2-13 x 1 3/4 Hex<br>Head (Pump Mounting) | 4    | 2            |
| 13   | 432-0634     | Gear, Clutch                              | 1    |              | 27   | 265-0239 | Cap Screw, 7/16-14 x 1<br>Hex Head               | 8    |              |
| 14   | 744-0278     | Shim, .030 Coral                          | A/R  | 1            | 28   | 265-0238 | Cap Screw, 7/16-14 x 1 1/4<br>Hex Head           | 10   |              |
|      | 744-0279     | Shim, .015 Pink                           | A/R  | 1            | 29   | 927-0347 | Washer, 7/16 Flat                                | 10   |              |
|      | 744-0282     | Shim, .005 Blue                           | A/R  | 1            |      |          |                                                  |      |              |
|      | 744-0283     | Shim, .002 Red                            | A/R  | 1            |      |          |                                                  |      |              |

Footnotes:

1. See service manual.
2. The unit is shipped with the bolts listed. When mounting the pump, use longer grade 5 bolts if necessary.



**FIG P.7 - UPPER SHAFT ASSEMBLY**  
Models with Hydraulic Pump Output

**TC-170/TC-170 P.D. INTERMEDIATE SHAFT ASSEMBLY**  
**Models without Lubrication Pump**  
**See Fig. P.8.**

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>              | <u>QTY.</u> | <u>FOOT</u> |   |
|-------------|-----------------|---------------------------------|-------------|-------------|---|
|             |                 |                                 |             | <u>NOTE</u> |   |
| 1           | 836-0223        | Vent                            | 1           |             |   |
| 2           | 235-0572-001    | Cap, Front                      | 1           |             |   |
| 3           | 427-0524        | Gasket                          | 1           |             |   |
| 4           | 233-0492        | Bearing Cup                     | 2           |             |   |
| 5           | 233-0494        | Bearing Cone                    | 2           |             |   |
| 6           | 776-0232        | Shaft                           | 1           |             |   |
| 7           | 966-0326        | Woodruff Key                    | 1           |             |   |
| 8           | 432-0629        | Gear                            | 1           |             |   |
| 9           | 927-0798        | Washer                          | 1           |             |   |
|             |                 | (3.75 OD x 2.76 ID x .45 Thick) |             |             |   |
| 10          | 744-0356-004    | Shim, .030 Coral                | A/R         |             | 1 |
|             | 744-0356-003    | Shim, .015 Pink                 | A/R         |             | 1 |
|             | 744-0356-002    | Shim, .005 Blue                 | A/R         |             | 1 |
|             | 744-0356-001    | Shim, .002 Red                  | A/R         |             | 1 |
| 11          | 235-0572-002    | Cap, Rear                       | 1           |             |   |
| 12          | 265-0238        | Cap Screw, 7/16-14 x 1 1/4      | 12          |             |   |
|             |                 | Hex Head                        |             |             |   |
| 13          | 927-0347        | Washer, 7/16 Flat               | 12          |             |   |

Footnotes:

1. See service manual.

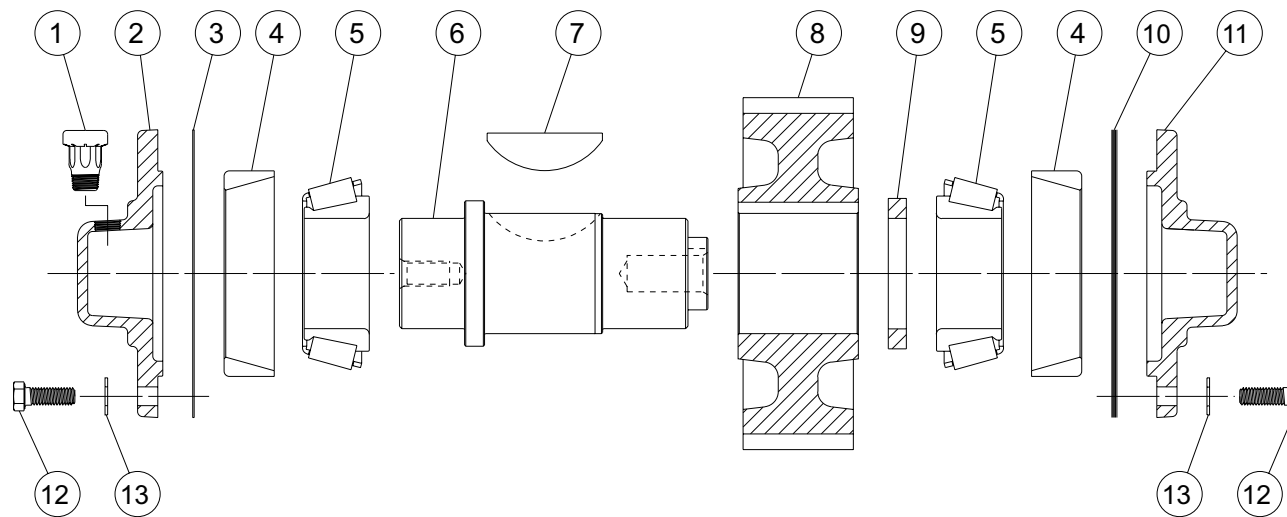


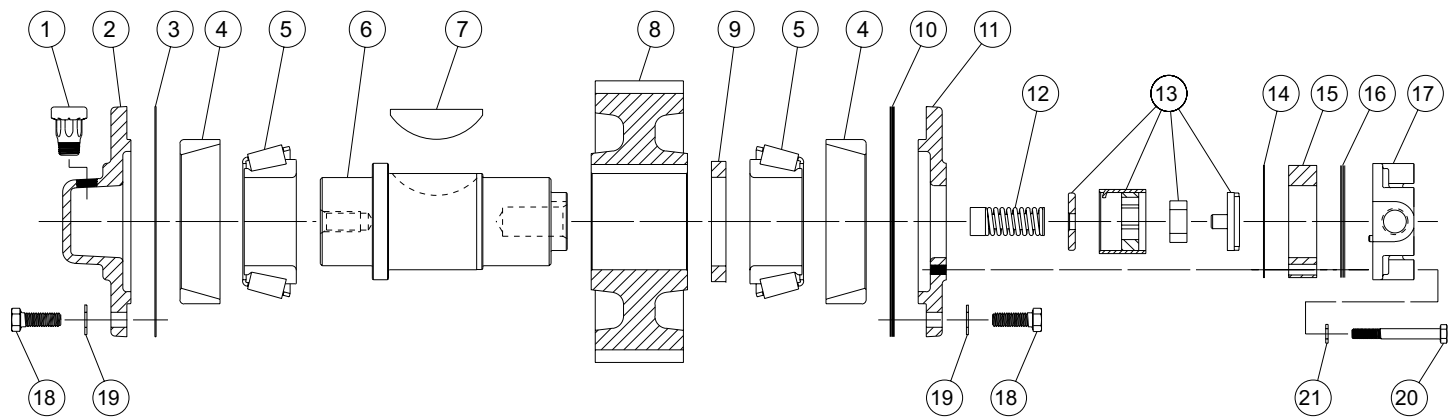
FIG P.8 - INTERMEDIATE SHAFT ASSEMBLY  
Models without Lubrication Pump

**TC-170/TC-170 P.D. INTERMEDIATE SHAFT ASSEMBLY**  
**Models with Lubrication Pump**  
**See Fig. P.9.**

| ITEM | PART NO.     | DESCRIPTION                            | QTY. | FOOT |   |
|------|--------------|----------------------------------------|------|------|---|
|      |              |                                        |      | NOTE |   |
| 1    | 836-0223     | Vent                                   | 1    |      |   |
| 2    | 235-0572-001 | Cap, Front                             | 1    |      |   |
| 3    | 427-0524     | Gasket                                 | 1    |      |   |
| 4    | 233-0492     | Bearing Cup                            | 2    |      |   |
| 5    | 233-0494     | Bearing Cone                           | 2    |      |   |
| 6    | 776-0232     | Shaft                                  | 1    |      |   |
| 7    | 966-0326     | Woodruff Key                           | 1    |      |   |
| 8    | 432-0629     | Gear                                   | 1    |      |   |
| 9    | 927-0798     | Washer (3.75 OD x 2.76 ID x .45 Thick) | 1    |      |   |
| 10   | 744-0356-004 | Shim, .030 Coral                       | A/R  |      | 1 |
|      | 744-0356-003 | Shim, .015 Pink                        | A/R  |      | 1 |
|      | 744-0356-002 | Shim, .005 Blue                        | A/R  |      | 1 |
|      | 744-0356-001 | Shim, .002 Red                         | A/R  |      | 1 |
| 11   | 235-0658     | Cap, Oil Pump Mounting                 | 1    |      |   |
| 12   | 777-0536     | Spring, Oil Pump                       | 1    |      |   |
| 13   | 786-0296     | Oil Pump Cartridge Assembly            | 1    |      |   |
| 14   | 427-0468     | Gasket, Oil Pump                       | 1    |      |   |
| 15   | 756-1324     | Ring, Oil Pump                         | 1    |      |   |
| 16   | 744-0324     | Shim, Oil Pump                         | A/R  |      |   |
| 17   | 235-0492     | Cap, Oil Pump                          | 1    |      |   |
| 18   | 265-0238     | Cap Screw, 7/16-14 x 1 1/4 Hex Head    | 12   |      |   |
| 19   | 927-0347     | Washer, 7/16 Flat                      | 12   |      |   |
| 20   | 265-0828     | Cap Screw, 5/16-24 x 3" Hex Head       | 6    |      |   |
| 21   | 927-0299     | Lock Washer, 5/16                      | 6    |      |   |

Footnotes:

1. See service manual.



**FIG P.9 - INTERMEDIATE SHAFT ASSEMBLY**  
Models with Lubrication Pump

## TC-170 FRONT OUTPUT SHAFT ASSEMBLY

See Fig. P.10.

| ITEM | PART NO.     | DESCRIPTION                | QTY. | FOOT<br>NOTE | ITEM | PART NO. | DESCRIPTION                                | QTY. | FOOT<br>NOTE |
|------|--------------|----------------------------|------|--------------|------|----------|--------------------------------------------|------|--------------|
| 1    | 688-0738     | Locknut, 1 3/4-12          | 1    |              | 11   | 432-0426 | Gear, Clutch Collar                        | 1    |              |
| 2    | 732-0333     | Oil Seal                   | 1    |              | 12   | 478-0232 | Housing, Declutch                          | 1    |              |
| 3    | 233-0443     | Bearing Cone               | 2    |              | 13   | 427-0376 | Gasket, Declutch Cover                     | 1    |              |
| 4    | 233-0444     | Bearing Cup                | 2    |              | 14   | 792-0866 | Plate, Declutch Cover                      | 1    |              |
| 5    | 237-0427-002 | Carrier                    | 1    |              | 15   | 265-0343 | Cap Screw, 1/4-20 x 1/2,<br>Hex Head       | 4    |              |
| 6    | 427-0375     | Gasket, Carrier            | 1    |              |      |          |                                            |      |              |
| 7    | 736-0939     | Ring, Bearing Spacer, .360 |      | 1            | 16   | 744-0278 | Shim, .030 Coral                           | A/R  | 2            |
|      | 736-0942     | Ring, Bearing Spacer, .365 |      | 1            |      | 744-0279 | Shim, .015 Pink                            | A/R  | 2            |
|      | 736-0943     | Ring, Bearing Spacer, .370 |      | 1            |      | 744-0282 | Shim, .005 Blue                            | A/R  | 2            |
|      | 736-0944     | Ring, Bearing Spacer, .375 |      | 1            |      | 744-0283 | Shim, .002 Red                             | A/R  | 2            |
|      | 736-0959     | Ring, Bearing Spacer, .380 |      | 1            | 17   | 724-0677 | Cap Screw, 7/16-14 x 2 1/4,<br>12-pt. Head | 6    |              |
|      | 736-0962     | Ring, Bearing Spacer, .385 |      | 1            |      |          |                                            |      |              |
| 8    | 432-0563     | Gear, Clutch               | 1    |              | 18   | 265-0238 | Cap Screw, 7/16-14 x 1 1/4,<br>Hex Head    | 8    |              |
| 9    | 776-0234     | Shaft                      | 1    |              |      |          |                                            |      |              |
| 10   | 762-0288     | Snap Ring                  | 1    |              |      |          |                                            |      |              |

### Footnotes:

1. Select one spacer ring. Refer to service manual.
2. Refer to service manual.

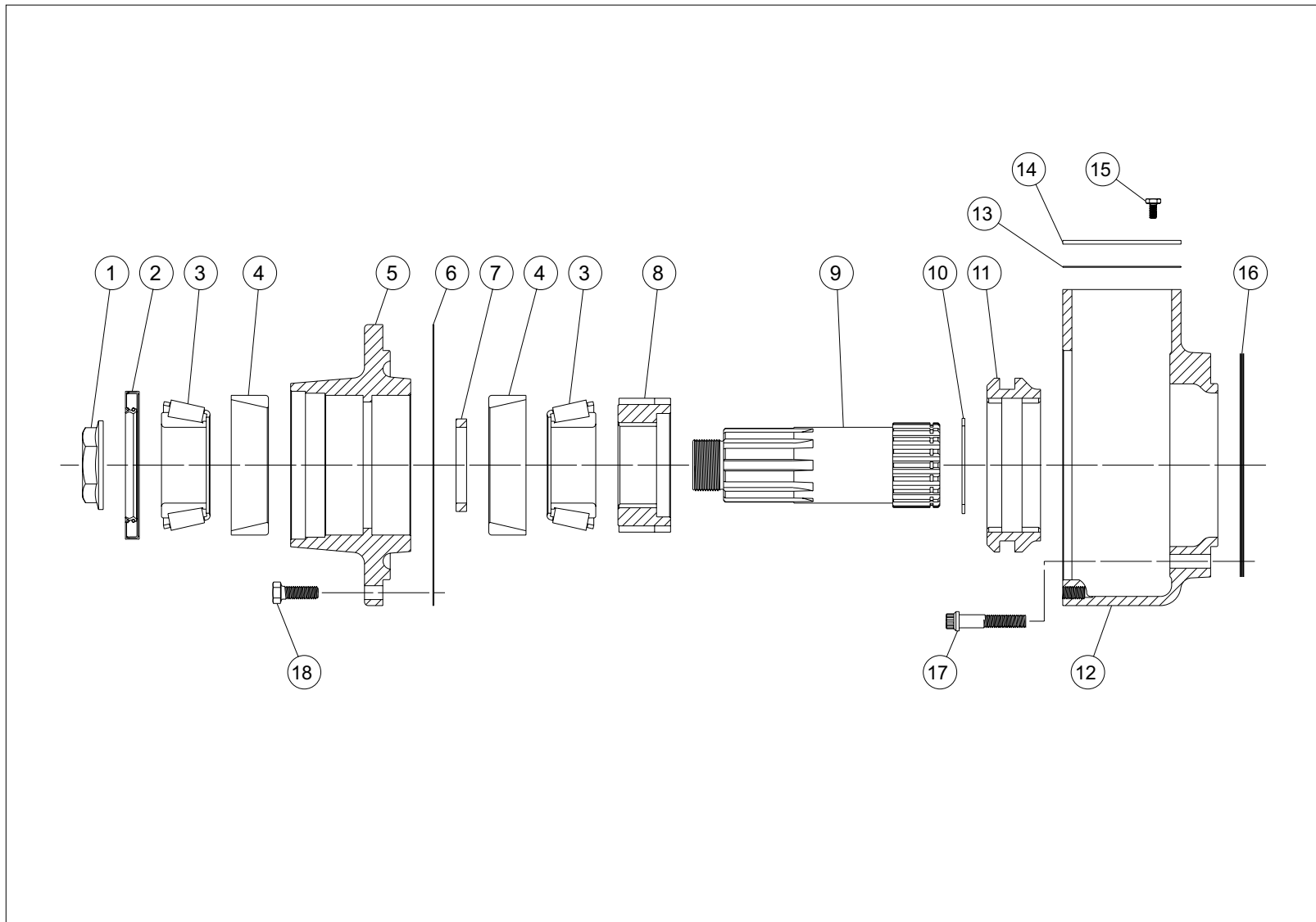


FIG P.10 - FRONT OUTPUT SHAFT ASSEMBLY  
Basic Transfer Cases (without Proportional Differential)

**TC-170 REAR OUTPUT SHAFT ASSEMBLY****Models without Neutral****See Fig. P.11.**

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                    | <u>QTY.</u> |
|-------------|-----------------|---------------------------------------|-------------|
| 1           | 688-0738        | Locknut, 1 3/4-12                     | 2           |
| 2           | 432-0634        | Gear Clutch                           | 1           |
| 3           | 233-0375        | Bearing Cup                           | 1           |
| 4           | 233-0489        | Bearing Cone                          | 1           |
| 5           | 776-0233        | Shaft                                 | 1           |
| 6           | 966-0326        | Woodruff Key                          | 1           |
| 7           | 432-0628        | Gear                                  | 1           |
| 8           | 927-0797        | Washer(3.75 OD x 2.51 ID x .25 Thick) | 1           |
| 9           | 233-0493        | Bearing Cone                          | 1           |
| 10          | 233-0492        | Bearing Cup                           | 1           |
| 11          | 427-0523        | Gasket                                | 1           |
| 12          | 237-0542-002    | Carrier                               | 1           |
| 13          | 732-0355        | Oil Seal                              | 1           |
| 14          | 265-0238        | Cap Screw, 7/16-14 x 1 1/4 Hex Head   | 10          |
| 15          | 927-0347        | Washer, 7/16 Flat                     | 10          |

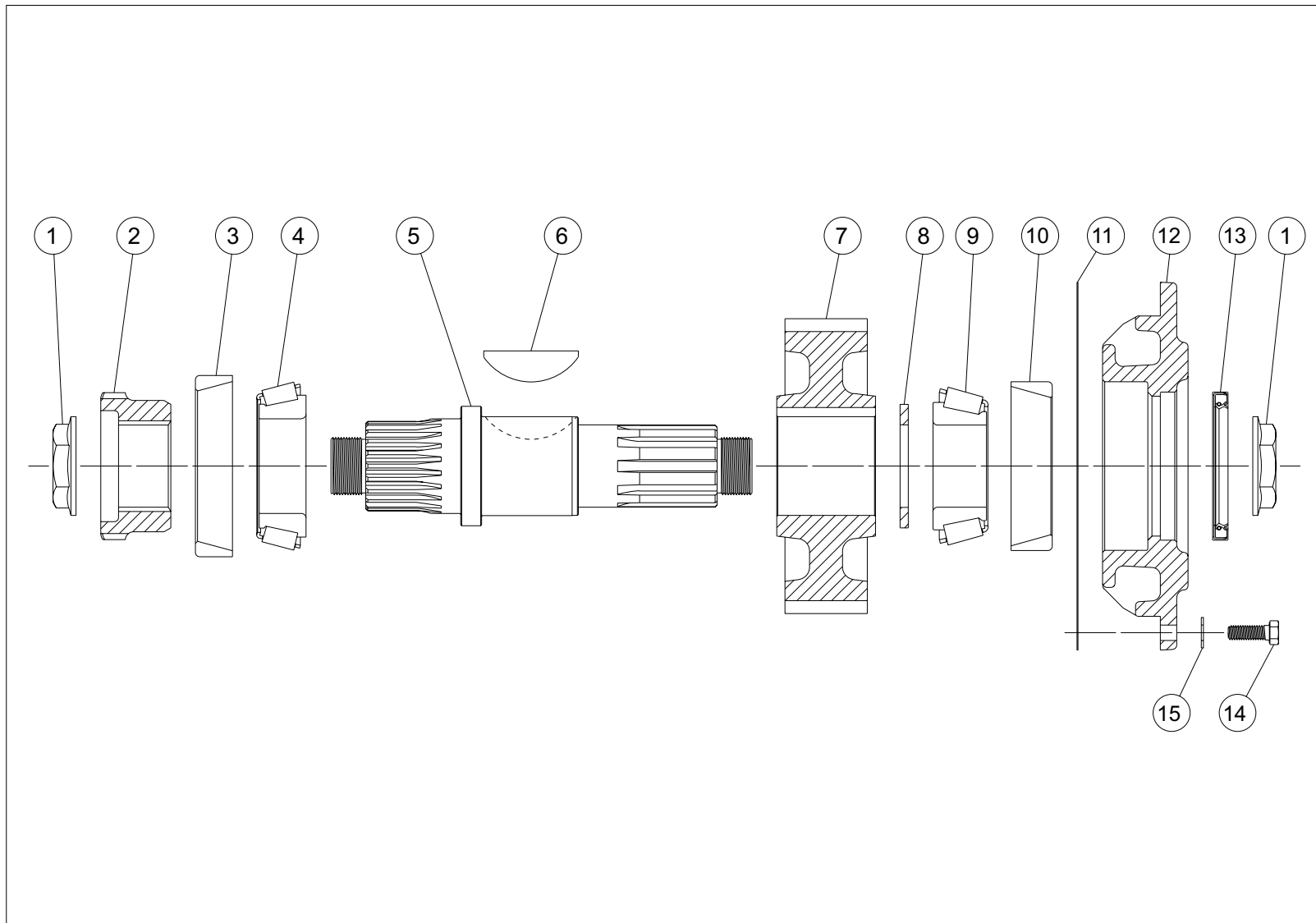


FIG P.11 - TC-170 REAR OUTPUT SHAFT ASSEMBLY  
Models without Neutral

# TC-170 REAR OUTPUT SHAFT ASSEMBLY

Models with Neutral

See Fig. P.12.

| ITEM | PART NO.     | DESCRIPTION         | QTY. | FOOT<br>NOTE | ITEM | PART NO. | DESCRIPTION                                            | QTY. | FOOT<br>NOTE |
|------|--------------|---------------------|------|--------------|------|----------|--------------------------------------------------------|------|--------------|
| 1    | 688-0738     | Locknut, 1 3/4-12   | 2    |              | 19   | 367-0286 | Shift Fork                                             | 1    |              |
| 2    | 432-0634     | Gear, Clutch        | 1    |              | 20   | 776-0236 | Shaft, Shifter                                         | 1    |              |
| 3    | 233-0375     | Bearing Cup         | 1    |              | 21   | 675-0316 | O-Ring, Shifter Shaft                                  | 1    |              |
| 4    | 233-0489     | Bearing Cone        | 1    |              | 22   | 782-0288 | O-Ring, Piston to Shaft                                | 1    |              |
| 5    | 756-0228     | Ring, Spacer        | 1    |              | 23   | 927-0822 | Nylon Washer, Piston Stop                              | 2    |              |
| 6    | 927-0854     | Washer, Thrust      | 2    |              | 24   | 339-0223 | Felt Wiper                                             | 1    |              |
| 7    | 432-1724     | Gear, Sub-assembly  | 1    |              | 25   | 753-0232 | Piston                                                 | 1    |              |
| 8    | 776-1235     | Shaft, Sub-assembly | 1    |              | 26   | 675-0326 | O-Ring, Piston                                         | 1    |              |
| 9    | 432-0633     | Gear, Clutch Collar | 1    |              | 27   | 927-0643 | Washer, Shifter Shaft<br>(.69 OD x .38 ID x .12 Thick) | 1    |              |
| 10   | 756-0229     | Ring, Inner         | 1    |              | 28   | 688-0464 | Locknut, 3/8-24                                        | 1    |              |
| 11   | 233-0474     | Bearing Cone        | 1    |              | 29   | 673-0229 | O-Ring, Cap                                            | 1    |              |
| 12   | 233-0475     | Bearing Cup         | 1    |              | 30   | 235-0634 | Cap, Shift Cylinder                                    | 1    |              |
| 13   | 756-0232     | Ring, Outer         | 1    |              | 31   | 265-0386 | Cap Screw, 1/4-20 x 3/4<br>Hex Head                    | 4    |              |
| 14   | 427-0523     | Gasket              | 1    |              | 32   | 265-0238 | Cap Screw, 7/16-14 x 1 1/4<br>Hex Head                 | 10   |              |
| 15   | 237-0544-001 | Carrier             | 1    |              | 33   | 927-0347 | Washer, 7/16 Flat                                      | 10   |              |
| 16   | 732-0355     | Oil Seal            | 1    |              |      |          |                                                        |      |              |
| 17   | 688-0342     | Locknut, 1/2-20     | 1    |              |      |          |                                                        |      |              |
| 18   | 927-0722     | Washer, 1/2 Flat    | 1    |              |      |          |                                                        |      |              |

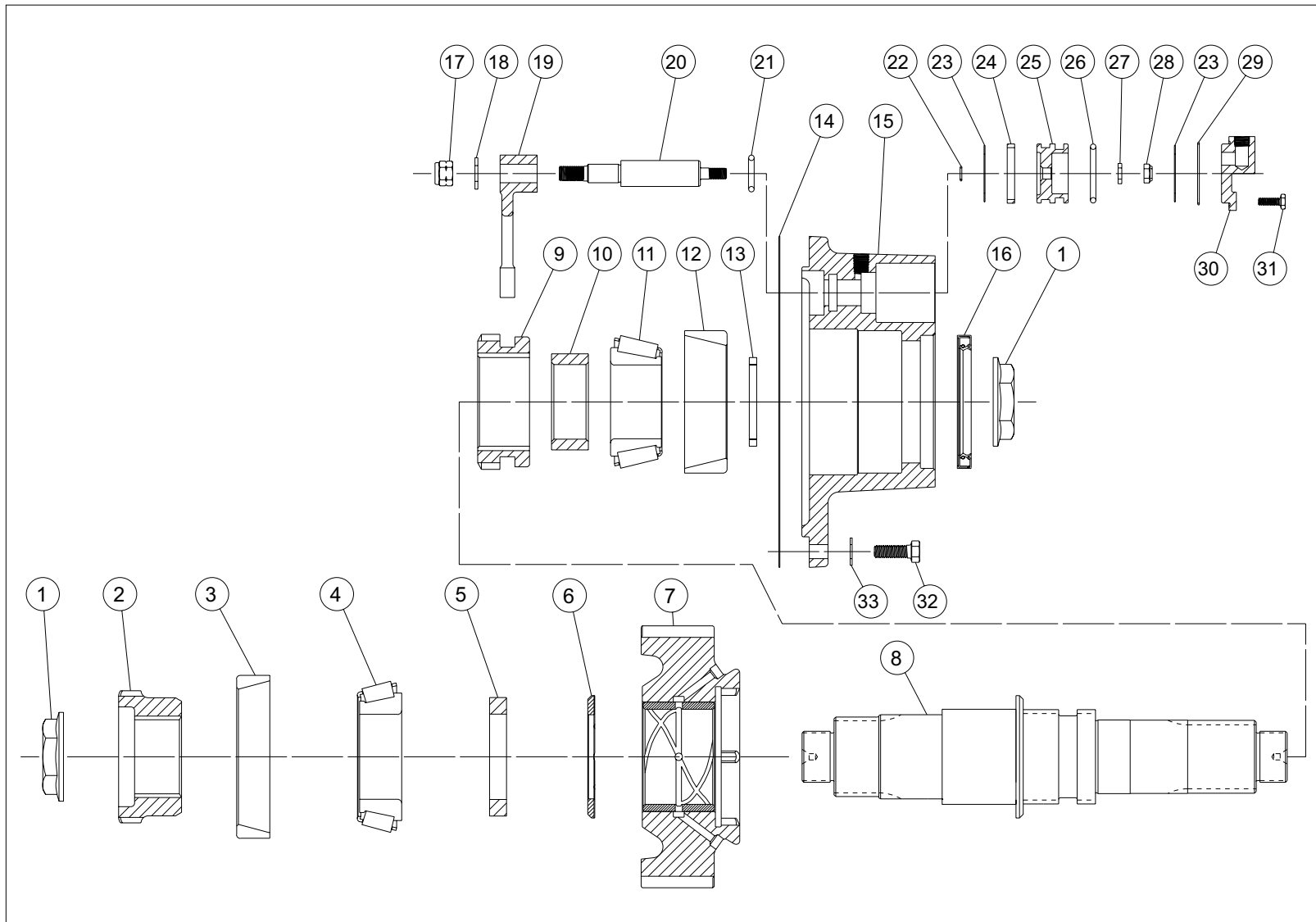


FIG P.12 - TC-170 REAR OUTPUT SHAFT ASSEMBLY  
Models with Neutral

# TC-170 PD 33/67 LOWER SHAFT ASSEMBLY

See Fig. P.13.

| ITEM | PART NO.     | DESCRIPTION                                    | QTY. | FOOT<br>NOTE | ITEM | PART NO.     | DESCRIPTION                                | QTY. | FOOT<br>NOTE |
|------|--------------|------------------------------------------------|------|--------------|------|--------------|--------------------------------------------|------|--------------|
| 1    | 688-0727     | Locknut, 1 1/4-12                              | 1    |              | 27   | 432-0637     | Gear, Planet, 10T                          | 4    |              |
| 2    | 927-0775-002 | Washer,<br>(2.25 OD x 1.28 ID x .19 Thick)     | 1    |              | 28   | 432-0638     | Gear, Sun, 20T,<br>(Front Output Shaft)    | 1    |              |
| 3    | 732-0358     | Oil Seal                                       | 1    |              | 29   |              | Cover Plate, Planet Gear                   |      | 3            |
| 4    | 237-0553     | Carrier, Oil Seal                              | 1    |              | 30   | 432-0639     | Internal Gear, 40T                         | 1    |              |
| 5    | 427-0522     | Gasket, Oil Seal Carrier                       | 1    |              | 31   | 927-0823     | Thrust Washer, Internal Gear               | 1    |              |
| 6    | 232-0376     | Ball Bearing Assembly,<br>(Includes Snap Ring) | 1    |              | 32   | 478-0224     | Housing, Differential Case,<br>Rear        | 1    |              |
| 7    | 237-0549     | Carrier, Front Bearing                         | 1    |              | 33   | 233-0498     | Bearing Cone                               | 1    |              |
| 8    | 427-0375     | Gasket, Bearing Carrier                        | 1    |              | 34   | 283-0227     | Bolt, Differential Case Halves             | 12   |              |
| 9    | 432-0532     | Gear, Clutch                                   | 1    |              | 35   |              | Shoulder Screw, 3/8-16                     |      | 3            |
| 10   | 736-0833     | Retaining Ring                                 | 1    |              | 36   | 724-1696     | Cap Screw, 3/8-16 X 1",<br>12-pt. Head     | 6    |              |
| 11   | 432-0426     | Gear, Clutch Collar                            | 1    |              | 37   | 427-0523     | Gasket, Housing                            | 2    |              |
| 12   | 478-0232     | Housing, Differential Lockout                  | 1    |              | 38   | 468-0998     | Housing, Outer Differential                | 1    |              |
| 13   | 265-0343     | Cap Screw, 1/4--20 x 1/2,<br>Hex Head          | 4    |              | 39   | 776-0238     | Shaft, Rear Output                         | 1    |              |
| 14   | 792-0866     | Plate, Lockout Cover                           | 1    |              | 40   | 233-0499     | Bearing Cup and Cone Assy.                 | 2    |              |
| 15   | 427-0376     | Gasket, Lockout Cover                          | 1    |              | 41   | 756-0234-005 | Ring, Bearing Spacer, .413                 |      | 2            |
| 16   | 744-0278     | Shim, .030 Coral                               | A/R  | 1            |      | 756-0234-006 | Ring, Bearing Spacer, .418                 |      | 2            |
|      | 744-0279     | Shim, .015 Pink                                | A/R  | 1            |      | 756-0234-007 | Ring, Bearing Spacer, .423                 |      | 2            |
|      | 744-0282     | Shim, .005 Blue                                | A/R  | 1            |      | 756-0234-008 | Ring, Bearing Spacer, .428                 |      | 2            |
|      | 744-0283     | Shim, .002 Red                                 | A/R  | 1            |      | 756-0234-009 | Ring, Bearing Spacer, .433                 |      | 2            |
| 17   | 688-0645     | Locknut, 2.548-18                              | 1    |              | 42   | 237-0547-002 | Carrier, Rear                              | 1    |              |
| 18   | 432-0738     | Gear, Clutch                                   | 1    |              | 43   | 732-0333     | Oil Seal, Rear Output                      | 1    |              |
| 19   | 233-0375     | Bearing Cup                                    | 2    |              | 44   | 688-0738     | Locknut, 1 3/4-12                          | 1    |              |
| 20   | 233-0497     | Bearing Cone                                   | 1    |              | 45   | 265-0238     | Cap Screw, 7/16-14 x 1 1/4,<br>Hex Head    | 24   |              |
| 21   | 688-0292     | Locknut, 5/8-18                                | 8    |              | 46   | 927-0347     | Washer, 7/16 Flat                          | 24   |              |
| 22   | 432-0635     | Gear, 50T, Lower                               | 1    |              | 47   | 724-0357     | Cap Screw, 7/16-14 x 1 1/4,<br>12-pt. Head | 10   |              |
| 23   | 788-1553-005 | Stud, 5/8-11 x 5/8-18 x 3"                     | 6    |              | 48   | 724-0677     | Cap Screw, 7/16-14 x 2 1/4,<br>12-pt. Head | 6    |              |
| 23A  | 788-1553-009 | Stud with Loctite                              | 2    |              |      |              |                                            |      |              |
| 24   | 478-0227     | Housing, Differential Case,<br>Front           | 1    |              |      |              |                                            |      |              |
| 25   | 746-0736     | Dowel Pin, 1/2 Dia. x 1 1/4 Long               | 2    |              |      |              |                                            |      |              |
| 26   | 237-1557     | Carrier, Planet Gears                          | 1    |              |      |              |                                            |      |              |

## Footnotes:

1. See service manual.
2. Select one spacer ring. Refer to service manual.
3. Part of 2371557 Sub-Assembly.

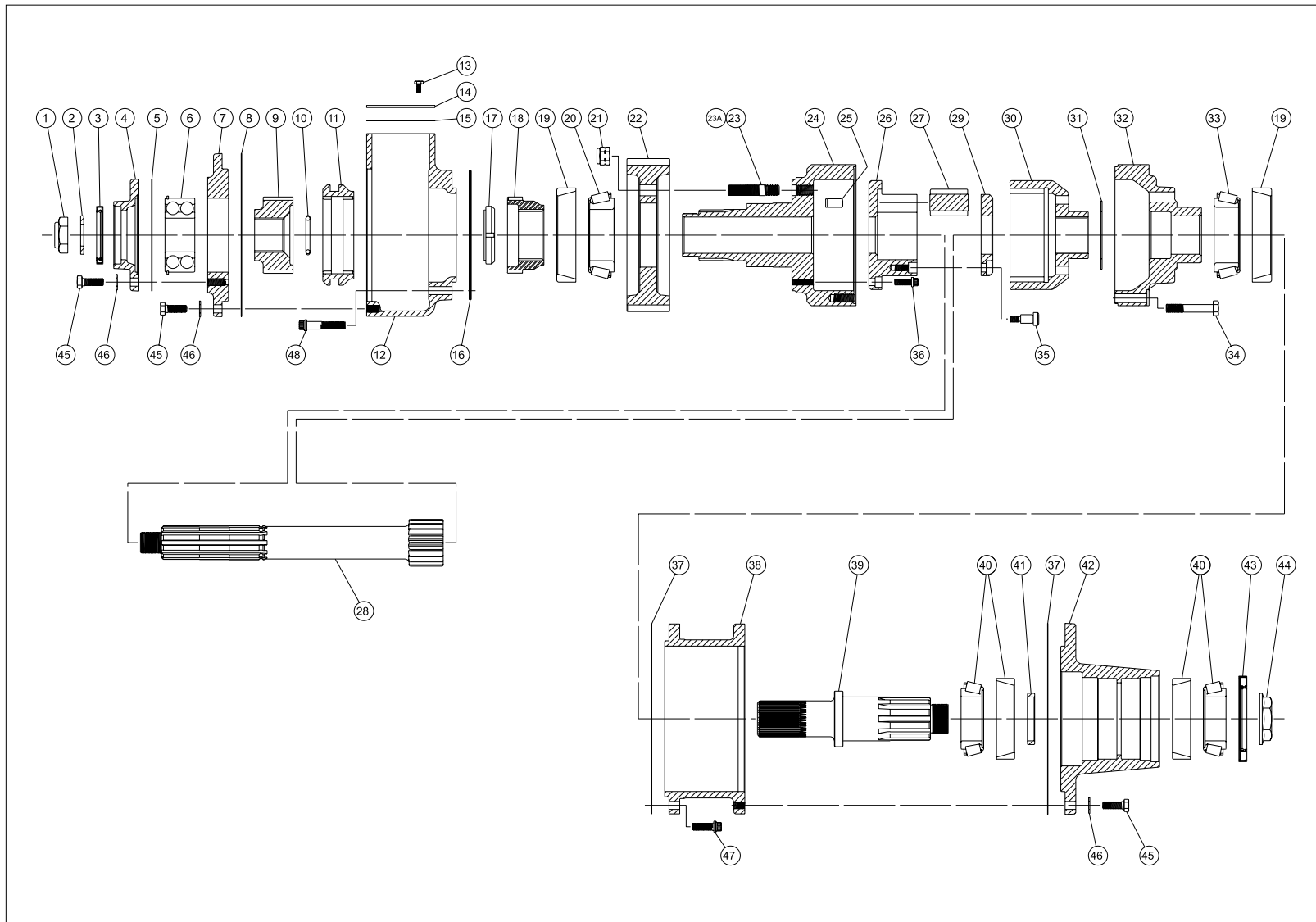


FIG P.13 - TC-170 PD 33/67 LOWER SHAFT ASSEMBLY

# TC-170 PD 50/50 LOWER SHAFT ASSEMBLY

See Fig. P.14.

| ITEM | PART NO.     | DESCRIPTION                                    | QTY. | FOOT<br>NOTE | ITEM | PART NO.     | DESCRIPTION                                | QTY. | FOOT<br>NOTE |
|------|--------------|------------------------------------------------|------|--------------|------|--------------|--------------------------------------------|------|--------------|
| 1    | 688-0727     | Locknut, 1 1/4-12                              | 1    |              | 25   | 776-0239     | Shaft, Front Output                        | 1    |              |
| 2    | 927-0775-002 | Washer,<br>(2.25 OD x 1.28 ID x .19 Thick)     | 1    |              | 26   | 927-0796     | Thrust Washer, Side Gear                   | 2    |              |
| 3    | 732-0358     | Oil Seal                                       | 1    |              | 27   | 432-0643     | Gear, Differential Side                    | 2    |              |
| 4    | 237-0553     | Carrier, Oil Seal                              | 1    |              | 28   | 432-0642     | Gear, Differential Pinion                  | 4    |              |
| 5    | 427-0522     | Gasket, Oil Seal Carrier                       | 1    |              | 29   | 927-0795     | Thrust Washer, Pinion                      | 4    |              |
| 6    | 232-0376     | Ball Bearing Assembly,<br>(Includes Snap Ring) | 1    |              | 30   | 277-0272     | Differential Spider Cross                  | 1    |              |
| 7    | 237-0549     | Carrier, Front Bearing                         | 1    |              | 31   | 478-0223     | Housing, Differential Case,<br>Rear        | 1    |              |
| 8    | 427-0375     | Gasket, Bearing Carrier                        | 1    |              | 32   | 233-0498     | Bearing Cone                               | 1    |              |
| 9    | 432-0532     | Gear, Clutch                                   | 1    |              | 33   | 283-0226     | Bolt, Differential Case Halves             | 12   |              |
| 10   | 736-0987     | Retaining Ring                                 | 1    |              | 34   | 427-0523     | Gasket, Housing                            | 2    |              |
| 11   | 432-0426     | Gear, Clutch Collar                            | 1    |              | 35   | 468-0998     | Housing, Outer Differential                | 1    |              |
| 12   | 478-0232     | Housing, Differential Lockout                  | 1    |              | 36   | 776-0238     | Shaft, Rear Output                         | 1    |              |
| 13   | 265-0343     | Cap Screw, 1/4-20 x 1/2,<br>Hex Head           | 4    |              | 37   | 233-0499     | Bearing Cup and Cone<br>Assembly           | 2    |              |
| 14   | 792-0866     | Plate, Lockout Cover                           | 1    |              | 38   | 756-0234-005 | Ring, Bearing Spacer, .413                 |      | 2            |
| 15   | 427-0376     | Gasket, Lockout Cover                          | 1    |              |      | 756-0234-006 | Ring, Bearing Spacer, .418                 |      | 2            |
| 16   | 744-0278     | Shim, .030 Coral                               | A/R  | 1            |      | 756-0234-007 | Ring, Bearing Spacer, .423                 |      | 2            |
|      | 744-0279     | Shim, .015 Pink                                | A/R  | 1            |      | 756-0234-008 | Ring, Bearing Spacer, .428                 |      | 2            |
|      | 744-0282     | Shim, .005 Blue                                | A/R  | 1            |      | 756-0234-009 | Ring, Bearing Spacer, .433                 |      | 2            |
|      | 744-0283     | Shim, .002 Red                                 | A/R  | 1            | 39   | 237-0547-002 | Carrier, Rear                              | 1    |              |
| 17   | 688-0645     | Locknut, 2.548-18                              | 1    |              | 40   | 732-0333     | Oil Seal, Rear Output                      | 1    |              |
| 18   | 432-0738     | Gear, Clutch                                   | 1    |              | 41   | 688-0738     | Locknut, 1 3/4-12                          | 1    |              |
| 19   | 233-0375     | Bearing Cup                                    | 2    |              | 42   | 265-0238     | Cap Screw, 7/16-14 x 1 1/4,<br>Hex Head    | 24   |              |
| 20   | 233-0497     | Bearing Cone                                   | 1    |              | 43   | 927-0347     | Washer, 7/16 Flat                          | 24   |              |
| 21   | 688-0292     | Locknut, 5/8-18                                | 8    |              | 44   | 724-0357     | Cap Screw, 7/16-14 x 1 1/4,<br>12-pt. Head | 10   |              |
| 22   | 432-0635     | Gear, 50T, Lower                               | 1    |              | 45   | 724-0677     | Cap Screw, 7/16-14 x 2 1/4,<br>12-pt. Head | 6    |              |
| 23   | 788-1553-005 | Stud, 5/8-11 x 5/8-18 x 3"                     | 8    |              |      |              |                                            |      |              |
| 24   | 478-0226     | Housing, Differential Case, Front              | 1    |              |      |              |                                            |      |              |

## Footnotes:

1. See service manual.
2. Select one spacer ring. Refer to service manual.

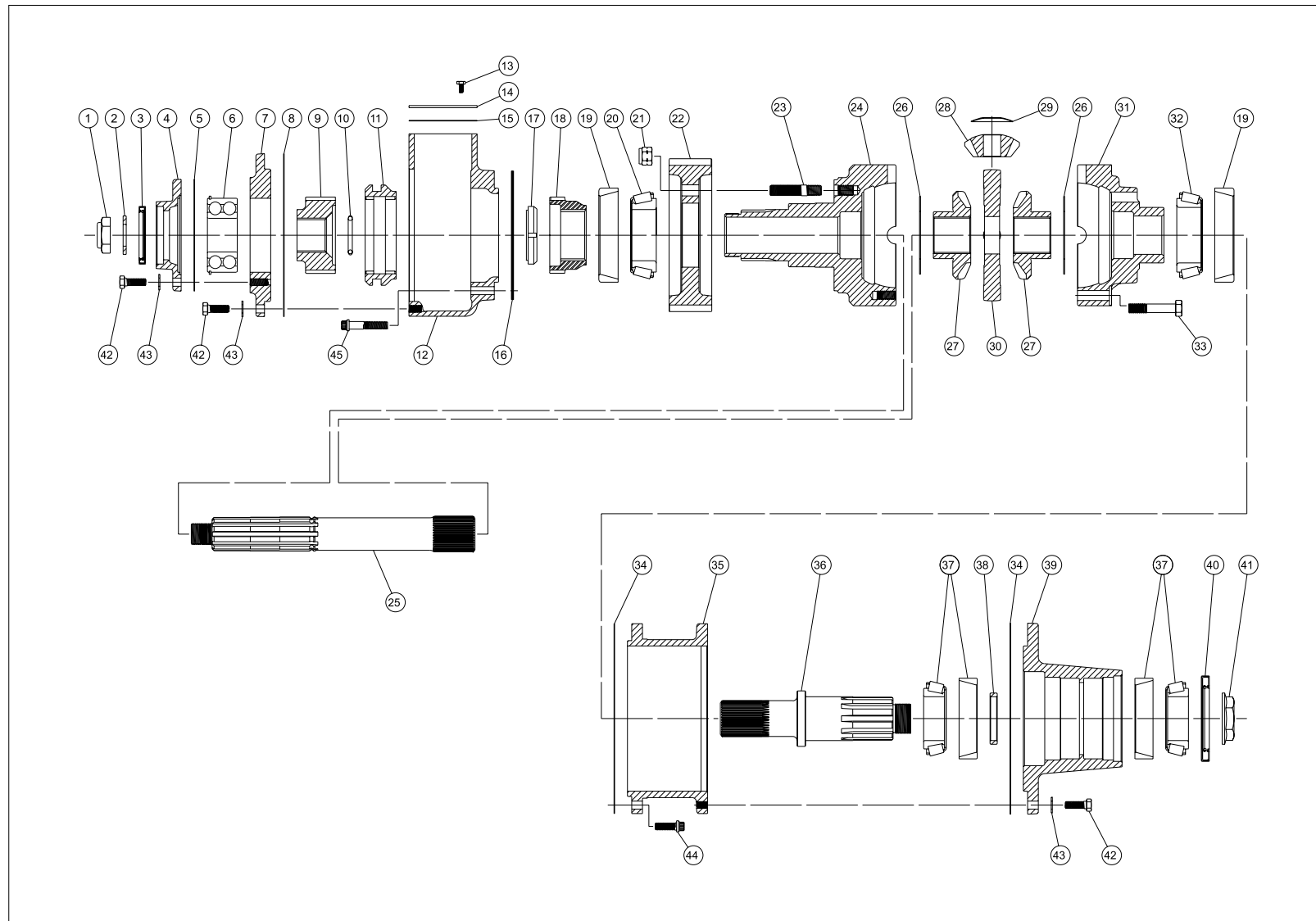


FIG P.14 - TC-170 PD 50/50 LOWER SHAFT ASSEMBLY

**TC-170/TC-170 PD SINGLE-ACTING AIR SHIFT CYLINDER ASSEMBLY****All Models****See Fig. P.15.**

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                                  | <u>QTY.</u> |
|-------------|-----------------|-----------------------------------------------------|-------------|
| 1           | 265-0769        | Cap Screw, 1/4-20 x 3 3/4 Hex Head                  | 4           |
| 2           | 235-0352        | Cap, Shift Cylinder                                 | 1           |
| 3           | 675-0224        | O-Ring, Shift Cylinder                              | 3           |
| 4           | 883-0887-001    | Tube, Shift Cylinder                                | 1           |
| 5           | 688-0464        | Locknut, 3/8--24                                    | 1           |
| 6           | 927-0643        | Washer, Shifter Shaft (.69 OD x .38 ID x .12 Thick) | 1           |
| 7           | 675-0326        | O-Ring, Piston                                      | 1           |
| 8           | 753-0232        | Piston                                              | 1           |
| 9           | 339-0223        | Felt Wiper                                          | 1           |
| 10          | 782-0288        | O-Ring, Piston to Shaft                             | 1           |
| 11          | 777-0477        | Spring                                              | 1           |
| 12          | 736-0747        | Nylon Stop Ring                                     | 1           |
| 13          | 883-0482        | Tube, Shift Cylinder Adapter                        | 1           |
| 14          | 947-0223        | Lock Wire                                           | 1           |
| 15          | 265-0768        | Bolt, 7/16-20 x 1 1/2 Drilled Head                  | 2           |
| 16          | 367-0254        | Shift Fork                                          | 1           |
| 17          | 742-0799        | Shaft, Shifter                                      | 1           |
| 18          | 798-0245        | Switch, Indicator Light                             | 1           |
| 19          | 927-0427        | Washer, Copper                                      | 1           |
| 20          | 746-0628        | Pin, Switch Actuating                               | 1           |
| 21          | 758-0328        | Welch Plug, 1"                                      | 1           |

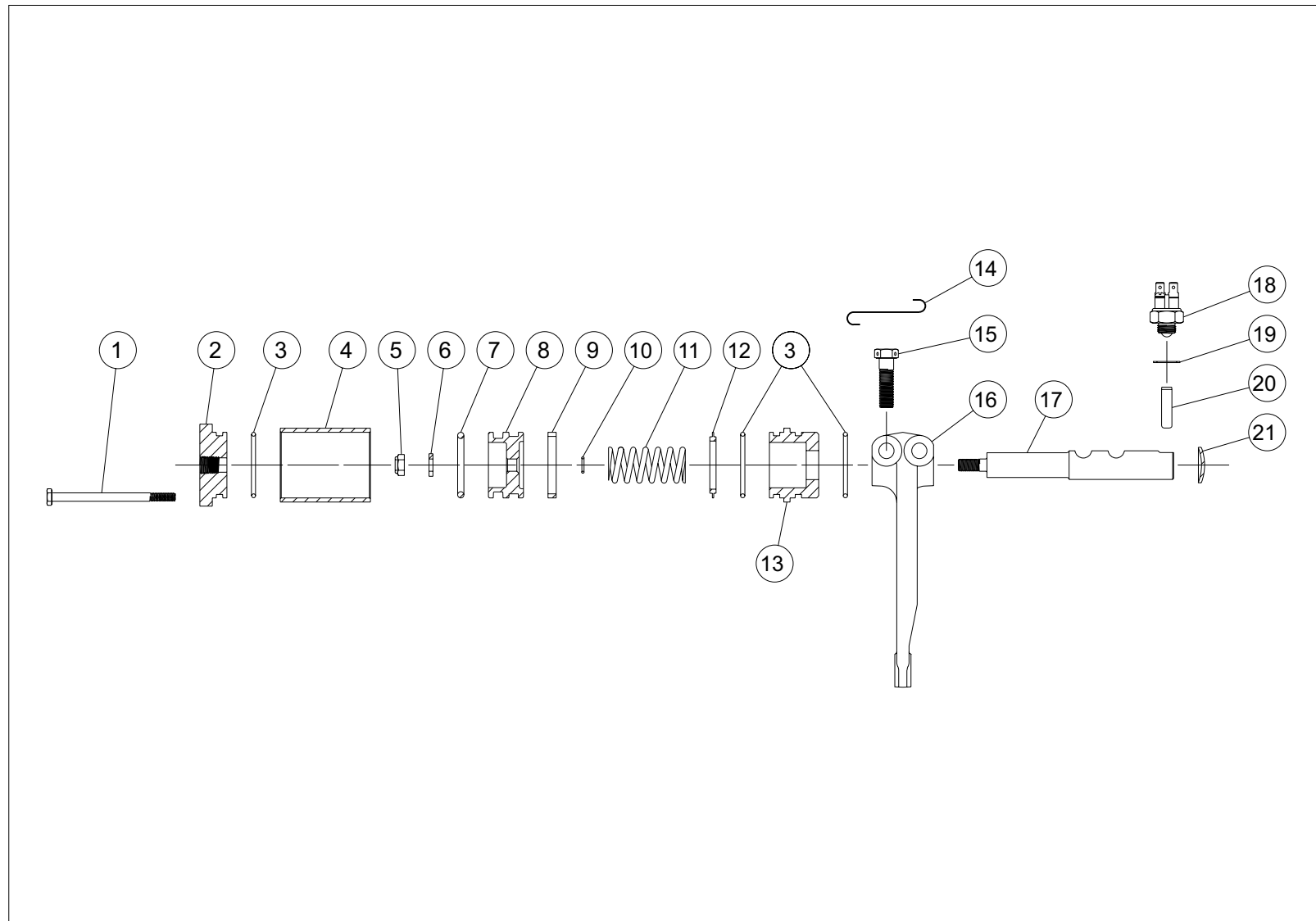


FIG P.15 - SINGLE-ACTING AIR SHIFT CYLINDER ASSEMBLY  
All Models

## TC-170/TC-170 PARTS NOT ILLUSTRATED

| <u>ITEM</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                   | <u>QTY.</u> | <u>FOOT<br/>NOTE</u> |
|-------------|-----------------|--------------------------------------|-------------|----------------------|
| 1           | 468-0996        | Housing, Transfer Case               | 1           |                      |
| 2           | 626-0228        | Name Plate, Serial Number            | 1           |                      |
| 3           | 724-0276        | Drive Screw, Name Plate              | 2           |                      |
| 4           | 758-0229        | Plug, 3/4 NPT Socket Head            |             | 1                    |
| 5           | 758-0232        | Plug, 1/4 NPT Socket Head            |             | 1                    |
| 6           | 758-0352        | Plug, 3/4 NPT Square Head (Oil Fill) | 1           |                      |
| 7           | 758-0274        | Plug, 3/4 NPT Socket Head, Magnetic  | 1           |                      |

The parts related to the lubrication piping are not covered in this manual due to the many different configurations. When replacing, use the old part for identification. Note however, that all fittings and hose assemblies are available from Fabco.

### Footnotes:

1. Quantity varies depending on model.