



## Fabco TC-33 Transfer case Parts Manual

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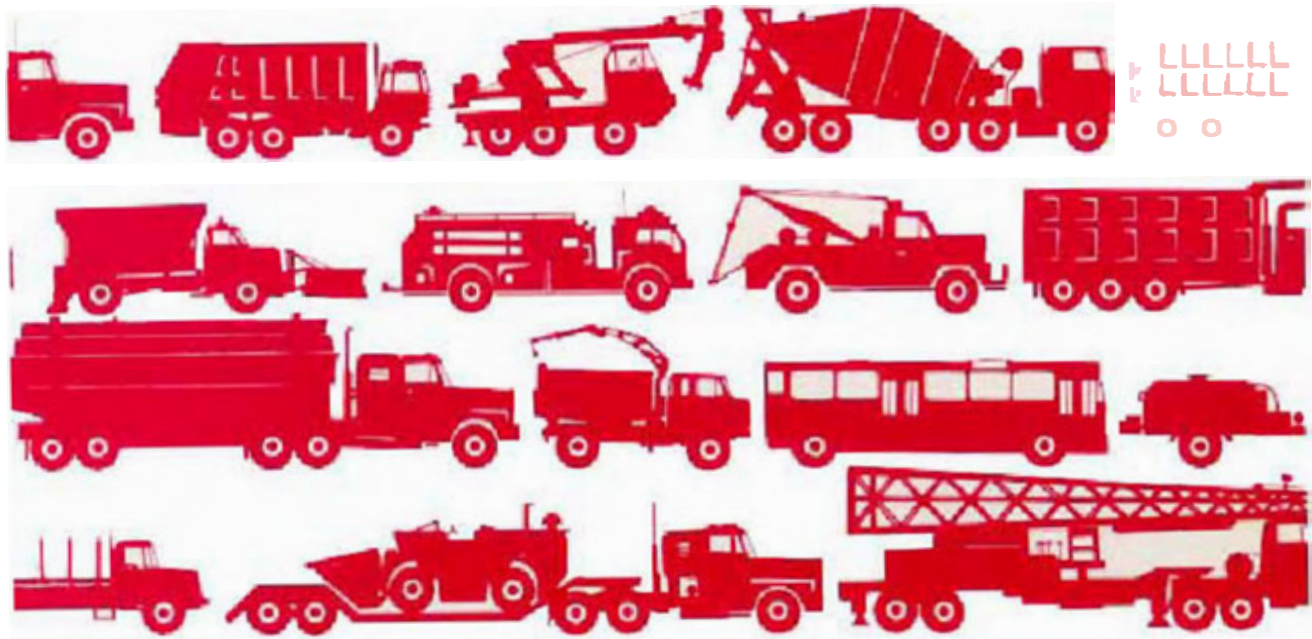
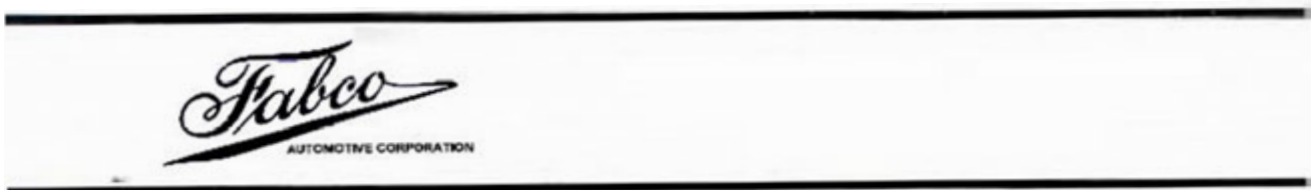
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# FABCO TC-33 TRANSFER CASE PARTS MANUAL



A business unit of **tti**

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This manual covers single and dual rear output versions of the TC-33 two-speed transfer case with either manual or air shift controls.

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## To Use This Book:

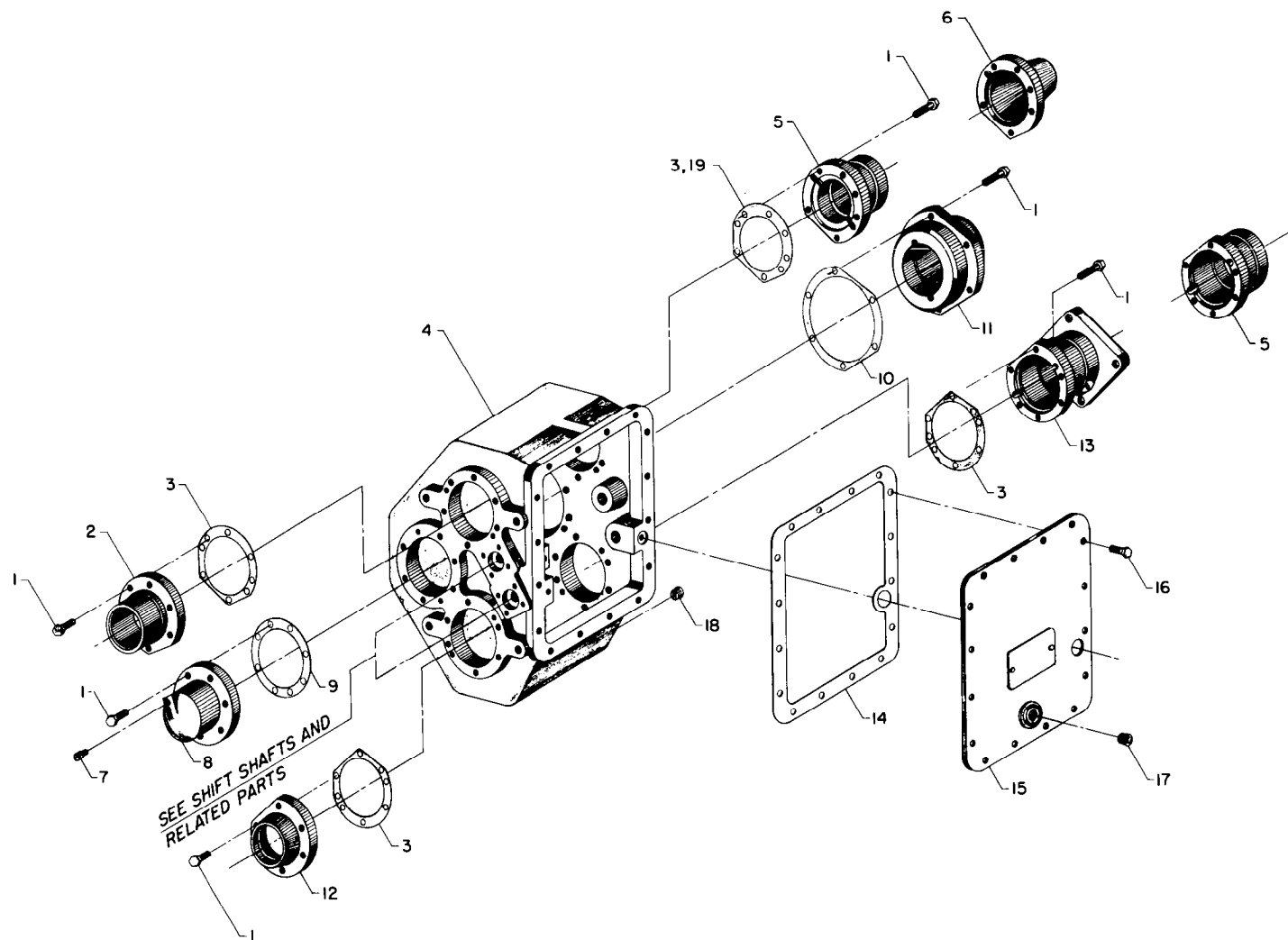
1. Refer to the exploded view which illustrates the needed part.
2. Find the required part in the exploded view and then note the item number or numbers.
3. Locate the item number in the parts list for part number, description, and quantity.

## Note:

1. Before ordering parts for a Fabco transfer case, please refer to the Fabco nameplate located on the transfer case housing. Specify model number, serial number, part number, or other information that is on the nameplate when ordering parts.

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 any time.

## Transfer Case Housing and Related Parts



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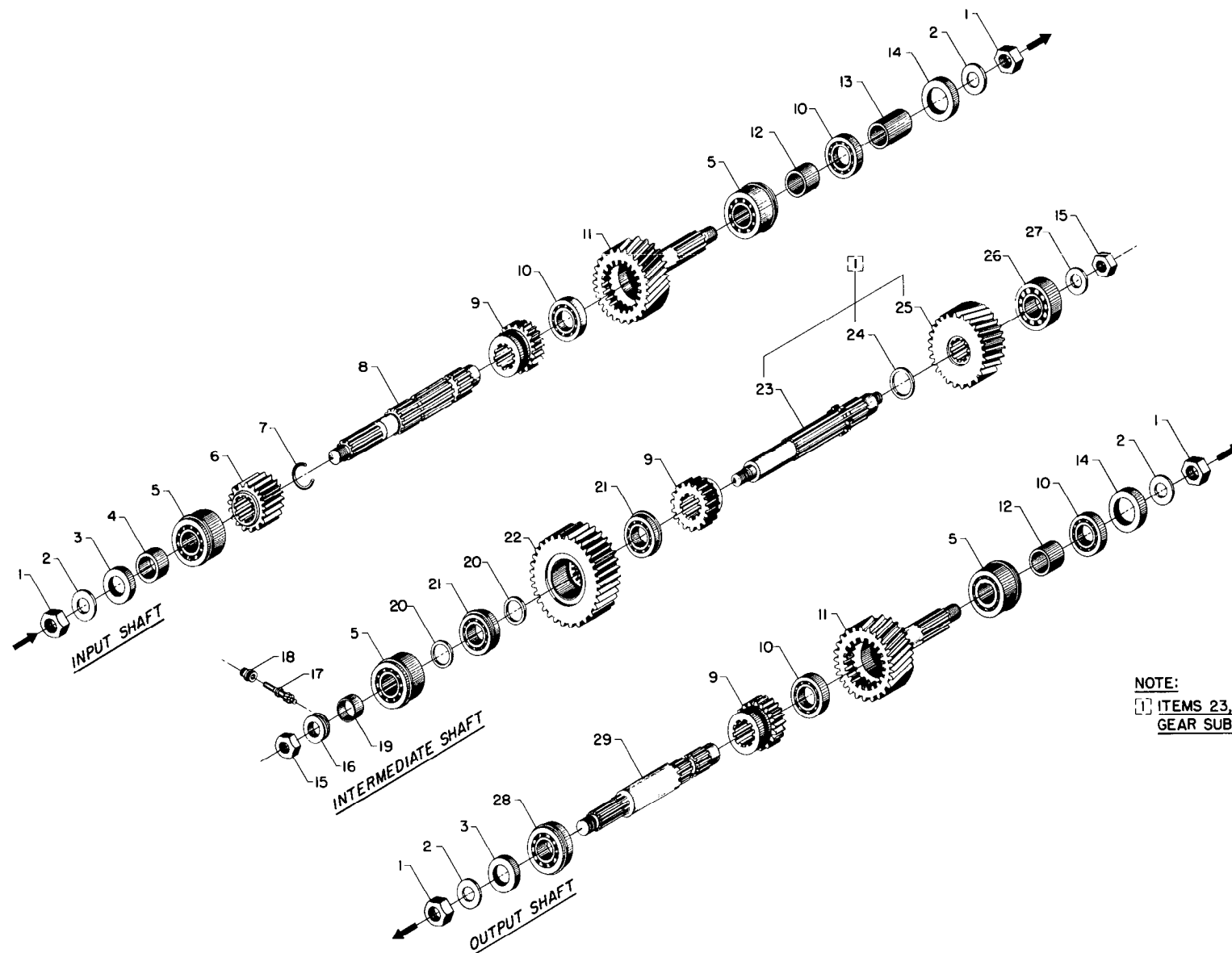
### Transfer Case Housing and Related Parts

| ITEM | PART NO. | DESCRIPTION                                              | QUANTITY      |
|------|----------|----------------------------------------------------------|---------------|
| 1    | 265 238  | Bolt, $\frac{7}{16}$ -14 x 1 $\frac{3}{4}$ Grade 5       | 36            |
| 2    | 237 323  | Carrier, Upper Shaft Front Seal                          | 1             |
| 3    | 427 339  | Gasket, Seal Carrier                                     | 4             |
| 4    | 468 768  | Housing, Transfer Case                                   | 1             |
| 5    | 237 325  | Carrier, Upper and/or Lower Shaft Rear Seal (see note 1) | (As Required) |
| 6    | 235 375  | Cap, Upper Shaft Rear Bearing (see note 3)               | (As Required) |
| 7    | 836 222  | Vent, Breather                                           | 1             |
| 8    | 235 456  | Cap, Intermediate Shaft Front                            | 1             |
| 9    | 427 338  | Gasket, Intermediate Shaft Front Cap                     | 1             |
| 10   | 427 342  | Gasket, Intermediate Shaft Rear Cap                      | 1             |
| 11   | 235 447  | Cap, Intermediate Shaft Rear                             | 1             |
| 12   | 237 394  | Carrier, Lower Shaft Seal                                | 1             |
| 13   | 273 453  | Bracket, Lower Shaft 12 x 4 Brake Mounting (see note 2)  | (As Required) |
|      | 237 334  | Bracket, Lower Shaft 9 x 3 Brake Mounting (see note 2)   |               |
| 14   | 427 398  | Gasket, Cover Plate                                      | 1             |
| 15   | 793 267  | Plate, Cover                                             | 1             |
| 16   | 2651239  | Bolt, $\frac{7}{16}$ - x 1 Grade 5 With Lockwasher       | 16            |
| 17   | 758 268  | Plug, $\frac{3}{4}$ Square Head Fill                     | 1             |
| 18   | 758 274  | Plug, $\frac{3}{4}$ Magnetic Drain                       | 1             |
| 19   | 7441322  | Shim, Rear Cap (Coral — .031")                           | (As Required) |
|      | 7442322  | Shim, Rear Cap (Pink — .016")                            | (As Required) |
|      | 7443322  | Shim, Rear Cap (Blue — .005")                            | (As Required) |

#### Notes:

- Two (2) item 5 required for dual rear output transfer cases. One (1) item 5 required for dual rear output transfer cases with a parking brake assembly.  
One (1) item 5 required for single rear output transfer cases without parking brake.
- One (1) item 13 required for transfer cases with a parking brake assembly, only.
- One (1) item 6 required for transfer cases with a single rear output.

## Shafts and Related Parts (Dual Rear Output)



**NOTE:**

ITEMS 23,24,25 MAYBE PURCHASED AS  
GEAR SUB-ASSEMBLY INTERMEDIATE SHAFT.

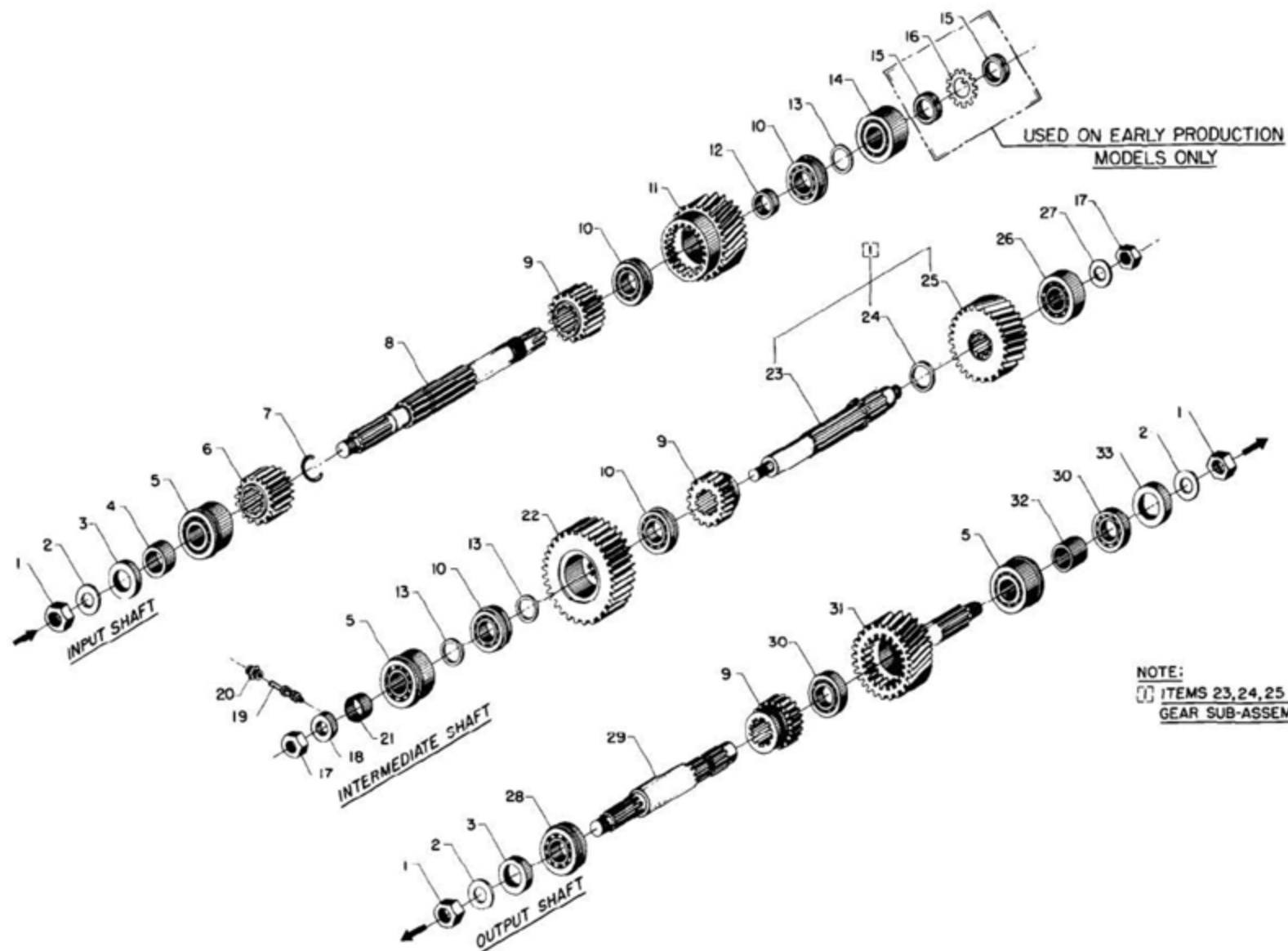
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### Shafts and Related Parts (Dual Rear Output)

| ITEM | PART NO. | DESCRIPTION                                       | QUANTITY |
|------|----------|---------------------------------------------------|----------|
| 1    | 688 633  | Nut, 1¼-18 Self Locking                           | 4        |
| 2    | 927 229  | Washer, 2⅝ O.D. Steel                             | 4        |
| 3    | 732 246  | Seal, Input and Front Output                      | 2        |
| 4    | 736 236  | Ring, (1.000 Wide) Spacer                         | 1        |
| 5    | 232 245  | Bearing, Double Row Ball                          | 4        |
| 6    | 432 478  | Gear, (19 Tooth) Underdrive                       | 1        |
| 7    | 736 833  | Ring, Retaining                                   | 1        |
| 8    | 742 944  | Shaft, Input                                      | 1        |
| 9    | 432 236  | Gear, (20 Tooth) Clutch                           | 3        |
| 10   | 232 237  | Bearing, Stem Gear Ball                           | 4        |
| 11   | 432 246  | Gear, (35 Tooth) Stem                             | 2        |
| 12   | 736 898  | Ring, Bearing Spacer                              | 2        |
| 13   | 882 224  | Sleeve, Seal                                      | 1        |
| 14   | 732 228  | Seal, Rear Output                                 | 2        |
| 15   | 688 634  | Nut, 1-20 Self Locking                            | 2        |
| 16   | 432 234  | Gear, Speedometer Drive                           | 1        |
| 17   | 432 235  | Gear, Speedometer Driven                          | 1        |
| 18   | 882 298  | Sleeve, Speedometer Driven Gear                   | 1        |
| 19   | 736 229  | Ring, (.825 Wide) Speedometer Gear Spacer         | 1        |
| 20   | 927 224  | Washer, (.0598 Wide) Spacer                       | 2        |
| 21   | 232 234  | Bearing, Underdrive Gear Ball                     | 2        |
| 22   | 432 477  | Gear, (41 Tooth) Underdrive                       | 1        |
| 23   | 742 888  | *Shaft, Intermediate                              | 1        |
| 24   | 736 642  | *Ring, (.094 Wide) Spacer                         | 1        |
| 25   | 432 238  | *Gear, (34 Tooth) Intermediate Shaft Direct Drive | 1        |
| 26   | 233 266  | Bearing, Roller                                   | 1        |
| 27   | 927 237  | Washer, 2¼ O.D. Steel                             | 1        |
| 28   | 232 252  | Bearing, Output Shaft Ball                        | 1        |
| 29   | 742 672  | Shaft, Front Output                               | 1        |

\*Items 23, 24, and 25 may be purchased as Intermediate Shaft Gear Sub-Assembly, part number 4322238.

## Shafts and Related Parts (Single Rear Output)



**NOTE:**  
 [1] ITEMS 23, 24, 25 MAYBE PURCHASED AS  
 GEAR SUB-ASSEMBLY INTERMEDIATE SHAFT

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### Shafts and Related Parts (Single Rear Output)

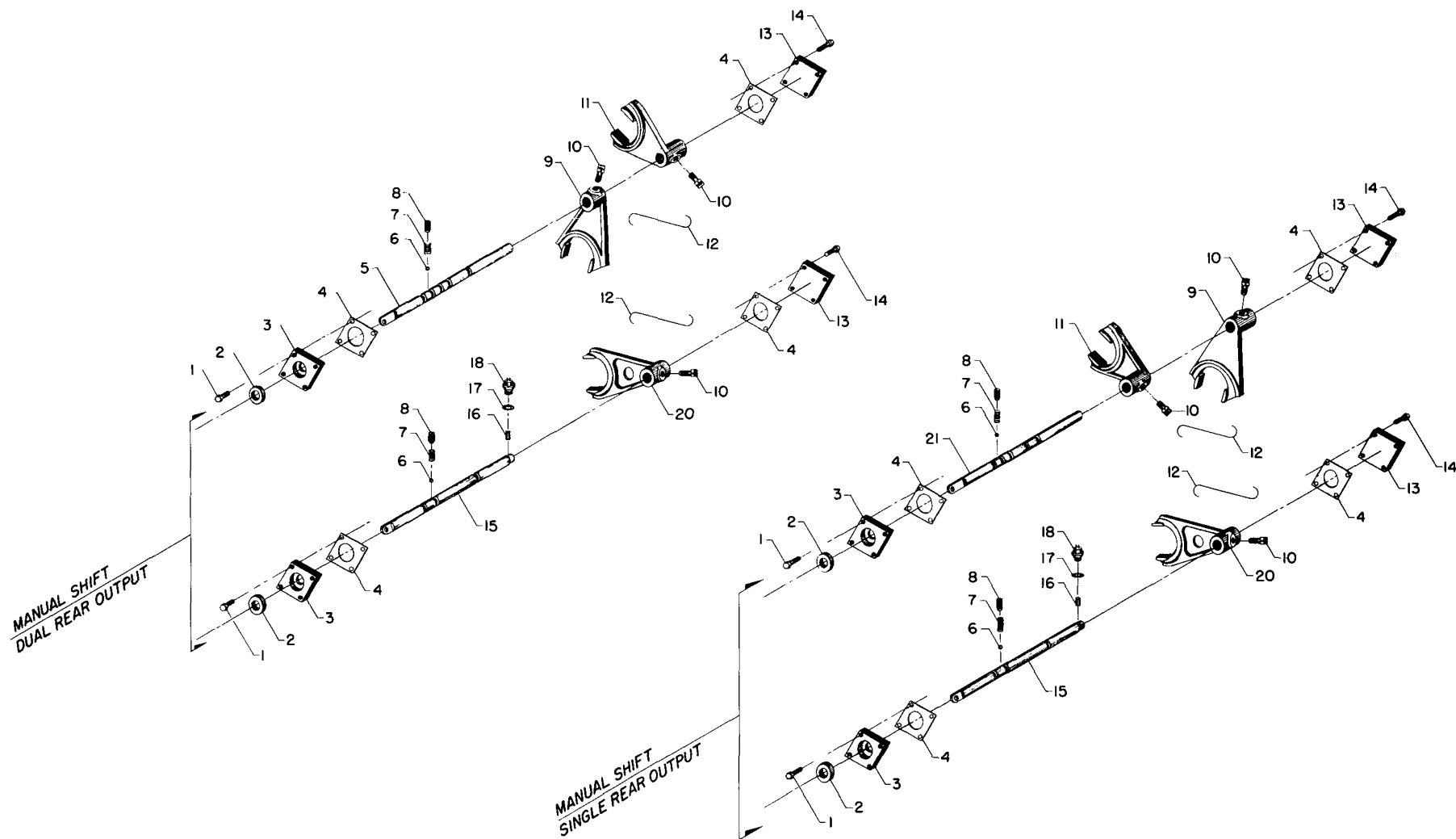
| ITEM | PART NO. | DESCRIPTION                                                | QUANTITY |
|------|----------|------------------------------------------------------------|----------|
| 1    | 688 633  | Nut, 1¼-18 Self Locking                                    | 3        |
| 2    | 927 229  | Washer, 2⅛ O.D. Steel                                      | 3        |
| 3    | 732 246  | Seal, Input and Front Output                               | 2        |
| 4    | 736 236  | Ring, (1.00 Wide) Spacer                                   | 1        |
| 5    | 232 245  | Bearing, Double Row Ball                                   | 3        |
| 6    | 432 478  | Gear, (19 Tooth) Underdrive                                | 1        |
| 7    | 736 833  | Ring, Retaining                                            | 1        |
| 8    | 742 887  | **Shaft, Input (used with bearing locknut equipped shafts) | 1        |
|      | 769 235  | Shaft, Input                                               |          |
| 9    | 432 236  | Gear, (20 Tooth) Clutch                                    | 3        |
| 10   | 232 234  | Bearing, Ball                                              | 4        |
| 11   | 432 237  | Gear, (35 Tooth) Direct Drive                              | 1        |
| 12   | 736 235  | Ring, (.696 Wide) Spacer                                   | 1        |
| 13   | 927 224  | Washer, (.059 Wide) Spacer                                 | 3        |
| 14   | 232 238  | Bearing, Upper Shaft Rear Ball                             | 1        |
| 15   | 688 223  | **Nut, Bearing Retaining                                   | 2        |
| 16   | 927 228  | *Washer, Bearing Lock                                      | 1        |
| 17   | 688 634  | Nut, 1-20 Self Locking                                     | 2        |
| 18   | 432 234  | Gear, Speedometer Drive                                    | 1        |
| 19   | 432 235  | Gear, Speedometer Driven                                   | 1        |
| 20   | 882 298  | Sleeve, Speedometer Driven Gear                            | 1        |
| 21   | 736 229  | Ring, (.825 Wide) Speedometer Gear Spacer                  | 1        |
| 22   | 423 477  | Gear, (41 Tooth) Underdrive                                | 1        |
| 23   | 742 888  | *Shaft, Intermediate                                       | 1        |
| 24   | 736 642  | *Ring, (.094 Wide) Spacer                                  | 1        |
| 25   | 432 238  | *Gear, (34 Tooth) Intermediate                             | 1        |
| 26   | 233 266  | Bearing, Roller                                            | 1        |
| 27   | 927 237  | Washer, 2¼ O.D. Steel                                      | 1        |
| 28   | 232 252  | Bearing, Output Shaft Ball                                 | 1        |
| 29   | 742 672  | Shaft, Front Output                                        | 1        |
| 30   | 232 237  | Bearing, Stem Gear Ball                                    | 2        |
| 31   | 432 246  | Gear, (35 Tooth) Stem                                      | 1        |
| 32   | 736 898  | Ring, Bearing Spacer                                       | 1        |
| 33   | 732 228  | Seal, Rear Output                                          | 1        |

#### Notes:

\*Items 23, 24, and 25 may be purchased as Intermediate Shaft Gear Sub-Assembly part number 4322238.

\*\*Used on early production transfer cases.

## Shift Shafts and Related Parts (Manual Shift)

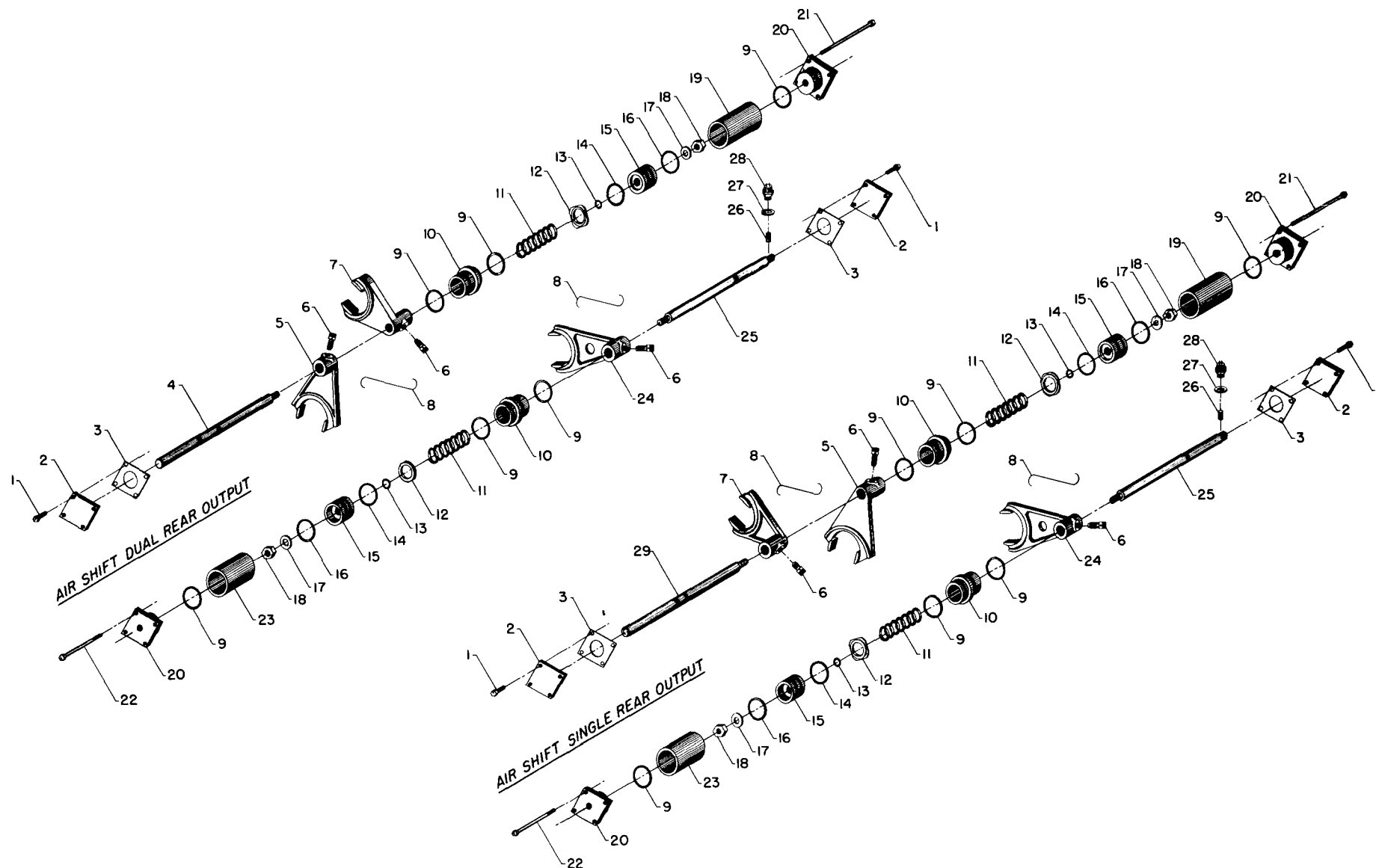


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### Shift Shafts and Related Parts (Manual Shift)

| ITEM | PART NO. | DESCRIPTION                             | QUANTITY |
|------|----------|-----------------------------------------|----------|
| 1    | 265 366  | Bolt, 1/4-20 x 1                        | 8        |
| 2    | 732 357  | Seal                                    | 2        |
| 3    | 237 383  | Carrier, Seal                           | 2        |
| 4    | 427 399  | Gasket, Shift Shaft                     | 4        |
| 5    | 742 955  | Shaft, H-N-U Shift (Dual Rear Output)   | 1        |
| 6    | 225 222  | Ball, 3/8 Diameter                      | 2        |
| 7    | 777 225  | Spring, Detent                          | 2        |
| 8    | 724 585  | Set Screw, 7/16-20 x 7/16               | 2        |
| 9    | 367 262  | Fork, Shift                             | 1        |
| 10   | 724 222  | Screw, Set                              | 3        |
| 11   | 367 259  | Fork, Shift                             | 1        |
| 12   | 947 223  | Wire, 18 Ga. (.048) x 5 1/2 Lock        | 2        |
| 13   | 235 372  | Cap, Shift Shaft                        | 2        |
| 14   | 265 343  | Bolt, 1/4-26 x 1/2                      | 8        |
| 15   | 742 947  | Shaft, Front Drive Shift                | 1        |
| 16   | 746 678  | Plunger                                 | 1        |
| 17   | 927 427  | Washer, Copper                          | 1        |
| 18   | 798 245  | Switch, Indicator Light                 | 1        |
| 19   | —        | (Not Used)                              |          |
| 20   | 367 264  | Fork, Front Drive Shift                 | 1        |
| 21   | 742 945  | Shaft, H-N-U Shift (Single Rear Output) | 1        |

## Shift Shafts and Related Parts (Air Shift)



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### Shift Shafts and Related Parts (Air Shift)

| ITEM | PART NO. | DESCRIPTION                             | QUANTITY |
|------|----------|-----------------------------------------|----------|
| 1    | 265 366  | Bolt, ¼-20 x 1                          | 8        |
| 2    | 235 372  | Cap, Shift Shaft                        | 2        |
| 3    | 427 399  | Gasket, Shift Shaft                     | 2        |
| 4    | 742 943  | Shaft, H-N-U Shift (Dual Rear Output)   | 1        |
| 5    | 367 262  | Fork, Shift                             | 1        |
| 6    | 724 222  | Screw, Set                              | 3        |
| 7    | 367 259  | Fork, Shift                             | 1        |
| 8    | 947 223  | Wire, 18 Ga. (.048) x 5½ Lock           | 2        |
| 9    | 675 224  | O-Ring (1¼ I.D.)                        | 6        |
| 10   | 883 479  | Tube, Shift Cylinder Adapter            | 2        |
| 11   | 777 485  | Spring, Shift Shaft                     | 2        |
| 12   | 736 747  | Ring, Stop                              | 2        |
| 13   | 782 288  | O-Ring, Piston Seal                     | 2        |
| 14   | 339 223  | Wiper, Felt                             | 2        |
| 15   | 753 232  | Piston, Shift                           | 2        |
| 16   | 675 326  | O-Ring. (1½ I.D.)                       | 2        |
| 17   | 927 643  | Washer, Piston Nut                      | 2        |
| 18   | 688 464  | Nut, Flexlock                           | 2        |
| 19   | 883 656  | Tube, Shift Cylinder (3.81 Long)        | 1        |
| 20   | 235 352  | Cap, Shift Cylinder                     | 2        |
| 21   | 265 893  | Bolt, ¼-20 x 5 Grade 5                  | 4        |
| 22   | 265 892  | Bolt, ¼-20 x 4 Grade 5                  | 4        |
| 23   | 883 657  | Tube, Shift Cylinder (2.94 Long)        | 1        |
| 24   | 367 264  | Fork, Front Drive Shift                 | 1        |
| 25   | 742 878  | Shaft, Front Drive Shift                | 1        |
| 26   | 746 678  | Plunger                                 | 1        |
| 27   | 927 427  | Washer, Copper                          | 1        |
| 28   | 798 245  | Switch, Indicator Light                 | 1        |
| 29   | 742 877  | Shaft, H-N-U Shift (Single Rear Output) | 1        |

## Overhaul Kits

| PART NO. | DESCRIPTION                                             |
|----------|---------------------------------------------------------|
| 427 309  | Gasket and Seal Kit (Air Shift — Single Rear Output)    |
| 427 311  | Gasket and Seal Kit (Air Shift — Dual Rear Output)      |
| 427 312  | Gasket and Seal Kit (Manual Shift — Single Rear Output) |
| 427 313  | Gasket and Seal Kit (Manual Shift — Dual Rear Output)   |
| 232 304  | Bearing Kit (Dual Rear Output)                          |
| 232 305  | Bearing Kit (Single Rear Output)                        |

## IX. Assembly of PTO Unit

(On Cases so Equipped)

Refer to Illustration on Page PM12

1. Put shift fork (Item 59) into housing (Item 61) with the chamfered side of the shift shaft hole toward the two opening ends of the housing, put clutch collar (Item 60) into the housing (with the chamfered end pointing as indicated and into the forked section of the shift fork.
2. Install the shift shaft (Item 49 on Page PM13) or (Item 53 on Page PM14). Install locknut (Item 47 on Page PM13 or PM14). Restrain nut with a box wrench and turn the shaft with an open end wrench.
3. Press bearing cones (Item 64) onto shaft (Item 65). Press seal (Item 69) into bearing carrier (Item 67). Press one cup (Item 63) into carrier.
4. Install shaft (Item 65) with bearing cones into the carrier sub-assembly and install the second bearing cup (Item 63).
5. Install the bearing carrier — shaft assembly onto the housing (Item 61) with the shaft passing into the shift collar. Temporarily bolt the carrier to the housing. With bolts (Item 68) tightened to 15 ft. lbs., measure gap between the parts. Select a shim stack that measures .005 to .010 larger than the gap measurement.

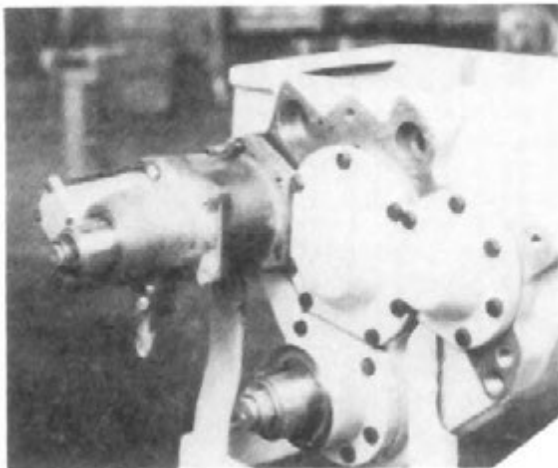
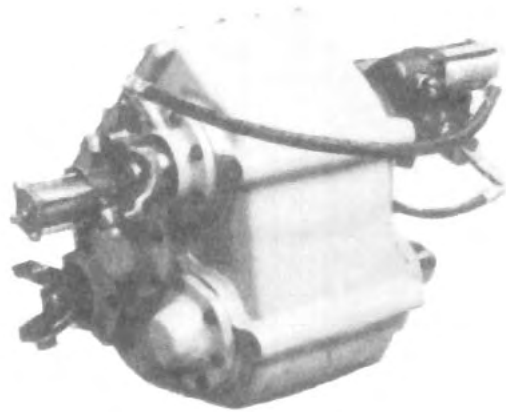


Fig. 37



6. Remove bolts (Item 68), install shim, reinstall bolts with Permatex on their threads. Tighten to the specified torque. *Skip to J8 if case is equipped with an air operated PTO shift.*
7. Refer to Page PM14. Install the manual shift linkage as follows:
  - a. Oil and install o-ring (Item 3) on seal carrier (Item 52). Install seal (Item 27). Lubricate inside of seal carrier and the seal with Lubriplate or transfer case oil.
  - b. Fit seal carrier onto the shift shaft and into the shift opening on the PTO housing. The detent ball opening should be facing in the same general direction as the indicator light switch hole. Install the four bolts (Item 54), tightening to specifications.
  - c. Put nut (Item 56) on eye (Item 57). Install (Item 57) onto end of shift shaft (Item 53). Install detent ball (Item 32), detent spring (Item 31) and set screw (Item 30). Tighten set screw until it takes a force of 25-40 lbs. to push the shift shaft out of detent.
  - d. Position lever (Item 58) on eye (Item 57) with pin (Item 59) washers (Item 60) and cotter pin installed as illustrated on the oil line and fitting illustration (Page PM15). Install link (Item 55) as illustrated. Check shift action before tightening lock nut (Item 56). The eye should be adjusted as necessary to make the lever angles approximately even in the engaged and disengaged positions. *Skip section J8 and proceed with step J9.*

8. Refer to Page PM13, install the Air Operated PTO Shift as follows: Oil o-rings (Item 3), install on adaptor (Item 50). Place adaptor over shift shaft and into the PTO housing with the counterbored end outboard. Place o-ring (Item 11) carefully over the end of the shift shaft. Position spring (Item 51) over the shift shaft and into the adaptor (Item 50). Place bump ring (Item 13) over spring (Item 51). Move shift collar and restrain to make shift shaft project as far as possible. Install piston (Item 9), washer (Item 7) and nut (Item 6). Tighten nut to specified torque. Install felt ring (Item 10) (after soaking in transfer case lubricant) in wide groove of piston. Oil o-ring (Item 8) and install in the outboard groove of the piston. Install cylinder cap. Slip the shift cylinder tube (Item 43) (3 $\frac{1}{8}$ " long) over the piston, onto the adaptor. Fit the shift cylinder cap into place and install the four capscrews that retain the assembly to the PTO unit, tighten to the specified torque.

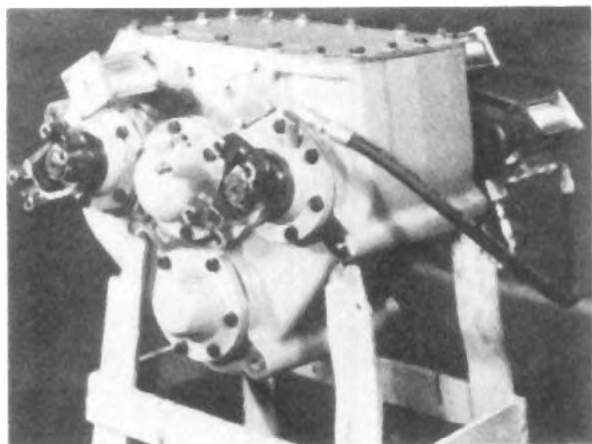


Fig. 38

9. Install the indicator light switch (Item 20) with same washers (Item 21) as were removed during disassembly. Check switch operation with a continuity tester (and air pressure applied to the shift cylinder, if so equipped).
10. Install the blanking sleeve (Item 70) on the PTO output to seal the output shaft section of the PTO, if a yoke is not to be installed immediately.
11. The PTO unit includes an oil pump that consists of items 73 through item 80 on Page PM12. Also refer to Fig. 39. The piston (Item 73) is driven by the eccentric section of shaft (Item 65). A check valve (Item 74) is retained within the piston by a spring type retaining ring (Item 75). This check valve must be installed with the free flow direction and arrow direction pointing toward the PTO shaft. This allows a small portion of the oil pump output to be directed onto the shaft's eccentric surface. Screw nut (Item 77) onto cylinder (Item 79) with nylon portion pointing away from the hexagon section of the cylinder. Coat

the piston, check valve and retaining ring assembly with transfer case lubricant. Put the spring (Item 76) into the counterbore of the piston and then put the cylinder over the spring and piston. Push the piston into the cylinder until the end of the cylinder is just even with the port in the side of the cylinder. The piston should move freely without binding. Screw the cylinder into the PTO bearing carrier (See Fig. 39). Rotate the PTO shaft to place the high point

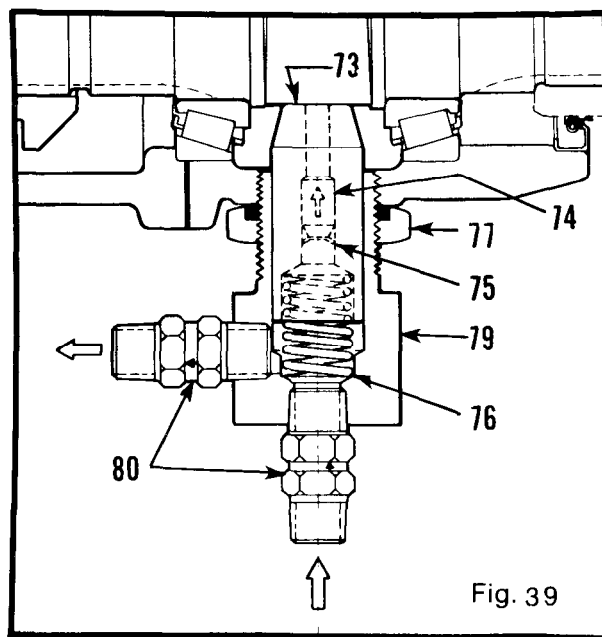
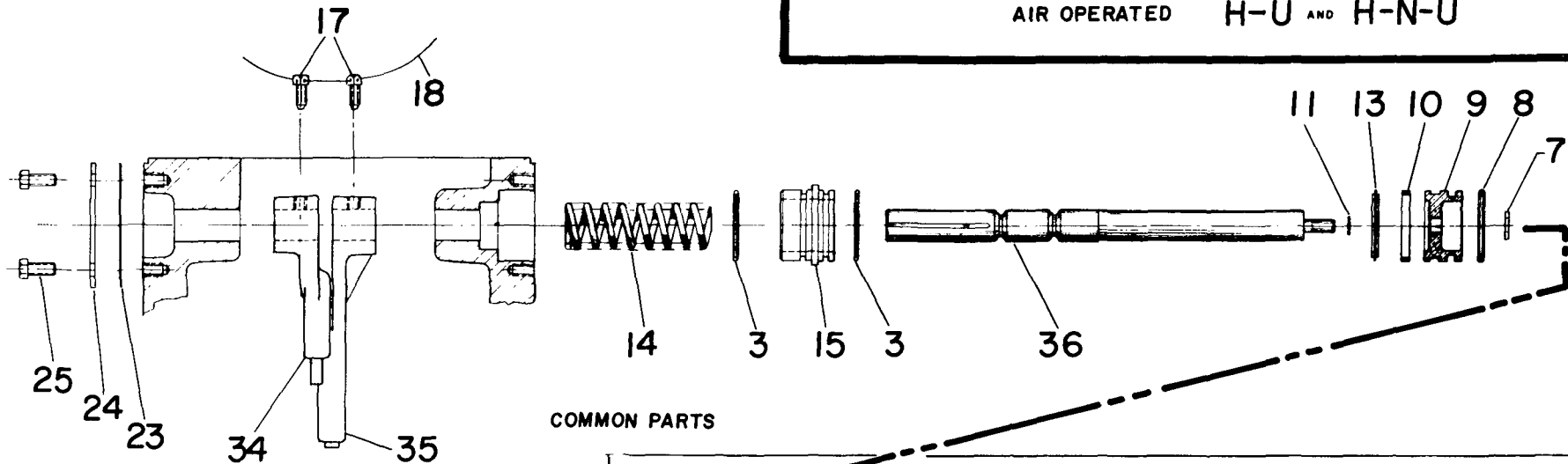


Fig. 39

of the cam under the piston, screw the cylinder in until the outer end of piston is visible short of the cylinder side port. Rotate the PTO shaft to verify that it is indeed on the high point of the cam. Screw the cylinder in until the outer end of the piston is just even with the side port; unscrew cylinder at least one turn, but not more than one and one half turns; tighten lock nut against the PTO bearing carrier with one side port of the cylinder pointing in the direction shown on Page PM15. *Use pipe dope on all pipe threaded fittings.* Screw check valves (Item 80) into place in the cylinder. The inlet check valve should be installed (with the arrow pointing into cylinder) in the end of the cylinder. The outlet valve should have the arrow pointing away from the cylinder and should be in the position shown on Page PM15 to allow the hose (Item 4) to be used to connect the pump to fitting (Item 5) at the front of the case.

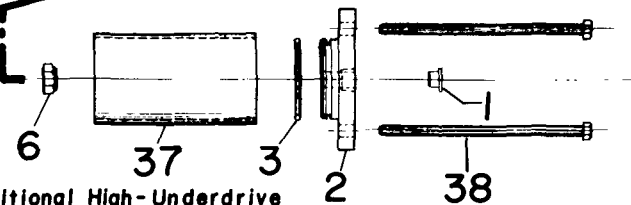
8. Refer to section VI G, paragraph 12 for installation of the PTO unit on the transfer case. Also See Fig. 33 and Fig. 37.
9. Refer to Page 2 and Page PM15 for the proper installation of the oil lines. Also see Fig. 1, 2, and 38.
10. Check oil flow out of oil pump upon installation. Refer to Section III B of this manual.

AIR OPERATED H-U AND H-N-U

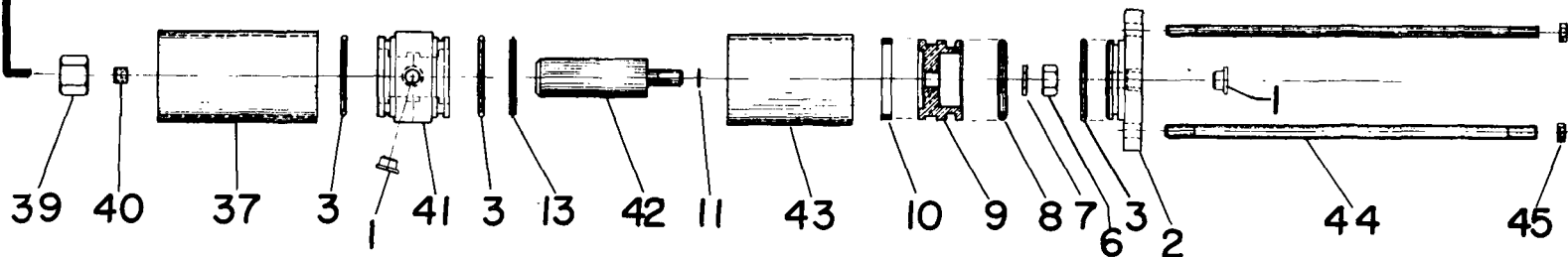


COMMON PARTS

Additional High-Underdrive  
PARTS USED FOR AIR SHIFT WITHOUT NEUTRAL

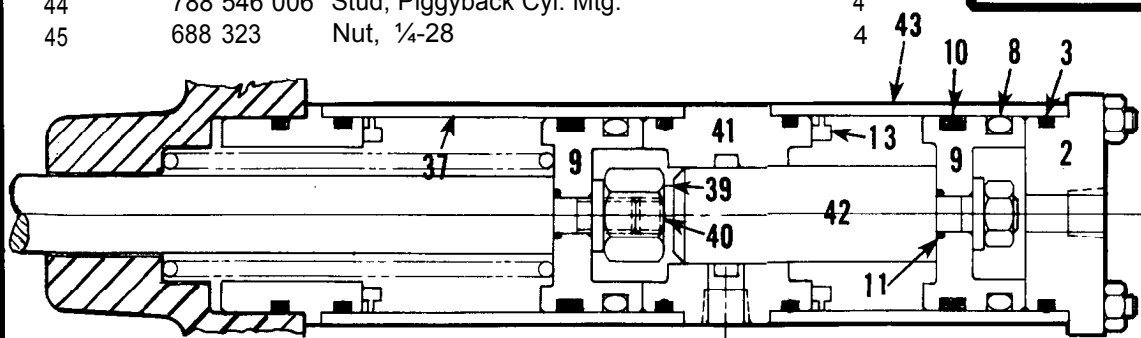


ADDITIONAL HIGH-NEUTRAL-UNDERDRIVE PARTS WITH NEUTRAL (Required with PTO and Air Shift)



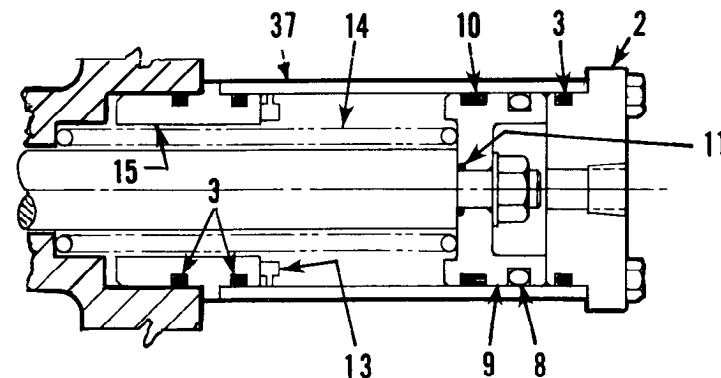
### H-N-U Air Shift

| ITEM | PART NO.    | DESCRIPTION                        | QUANTITY |
|------|-------------|------------------------------------|----------|
| 1    | 758 338     | Plastic Plug                       | 2        |
| 2    | 235 372     | Cap, Air Shift Cyl.                | 1        |
| 3    | 675 224     | O-Ring, Air Shift Cap & Adaptor    | 5        |
| 6    | 688 464     | Nut, Shift Piston                  | 1        |
| 7    | 927 643     | Washer, Shift Piston               | 2        |
| 8    | 675 326     | O-Ring, Shift Piston               | 2        |
| 9    | 753 232     | Piston, Shift                      | 2        |
| 10   | 339 223     | Felt Ring, Shift Piston            | 2        |
| 11   | 782 288     | O-Ring, Shift Shaft                | 2        |
| 13   | 736 747     | Ring, Nylon Bump                   | 2        |
| 14   | 777 485     | Spring, Air Shift Return           | 1        |
| 15   | 883 479     | Adaptor, Air Shift Cyl.            | 1        |
| 17   | 724 222     | Set Screw                          | 2        |
| 18   | 947 223     | Lockwire                           | 2        |
| 23   | 427 399     | Gasket, Shift Shaft Cap            | 1        |
| 24   | 235 372     | Cap, Shift Shaft                   | 1        |
| 25   | 265 343     | Capscrew, 1/4-20 x 1/2             | 4        |
| 34   | 367 259     | Fork, Direct Drive Shift           | 1        |
| 35   | 367 268     | Fork, Under Drive Shift            | 1        |
| 36   | 742 877     | Shaft, H-N-U Air Shift             | 1        |
| 37   | 883 887 003 | Tube, Shift Cyl.                   | 1        |
| 39   | 688 643     | Nut, Special                       | 1        |
| 40   | 724 582     | Set Screw, 3/8-24 x 1/4 Allan Head | 1        |
| 41   | 883 893     | Adaptor, Piggyback Cyl.            | 1        |
| 42   | 769 286     | Shaft, Piggyback Cyl.              | 1        |
| 43   | 883 887 007 | Tube, Piggyback Cyl. & PTO Cyl.    | 1        |
| 44   | 788 546 006 | Stud, Piggyback Cyl. Mtg.          | 4        |
| 45   | 688 323     | Nut, 1/4-28                        | 4        |



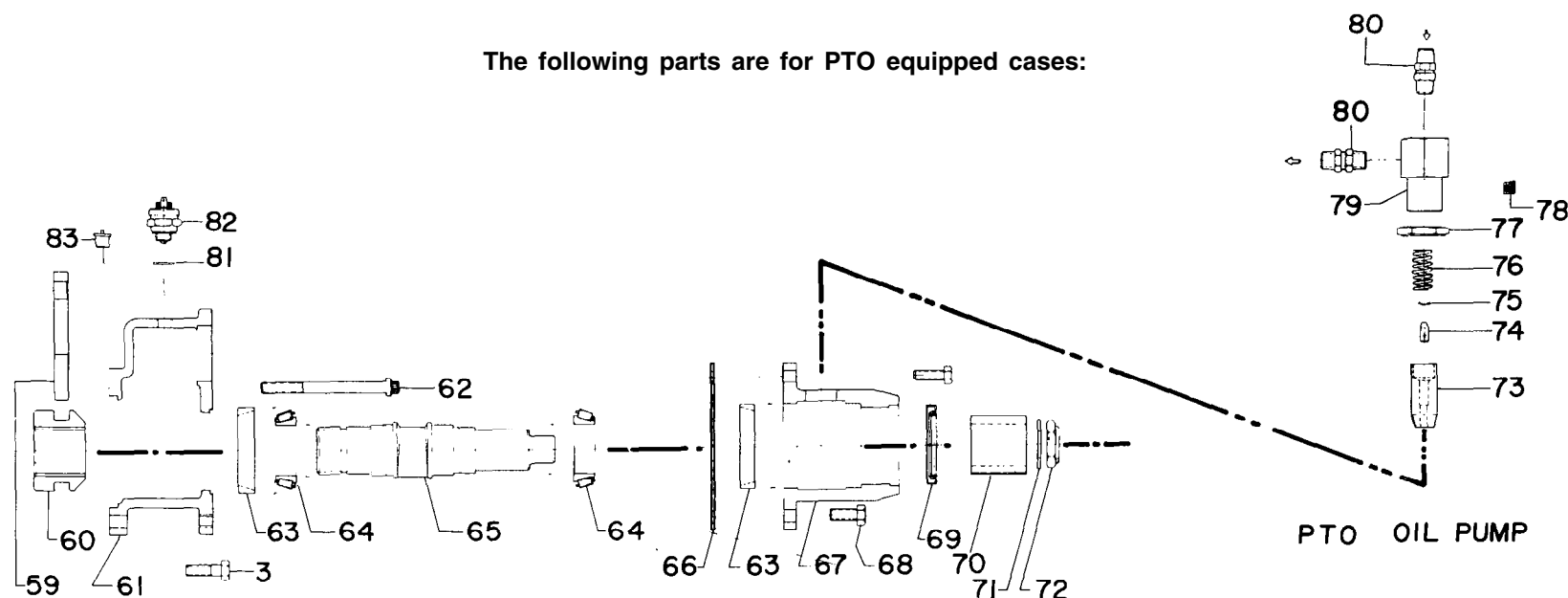
### H-U Air Shift

| ITEM | PART NO.    | DESCRIPTION                             | QUANTITY |
|------|-------------|-----------------------------------------|----------|
| 1    | 758 338     | Plastic Plug                            | 1        |
| 2    | 235 372     | Cap, Air Shift Cyl.                     | 1        |
| 3    | 675 224     | O-Ring, Air Shift Cap & Adaptor         | 3        |
| 6    | 688 464     | Nut, Shift Piston                       | 1        |
| 7    | 927 643     | Washer, Shift Piston                    | 1        |
| 8    | 675 326     | O-Ring, Shift Piston                    | 1        |
| 9    | 753 232     | Piston, Shift                           | 1        |
| 10   | 339 223     | Felt Ring, Shift Piston                 | 1        |
| 11   | 782 288     | O-Ring, Shift Shaft                     | 1        |
| 13   | 736 747     | Ring, Nylon Bump                        | 1        |
| 14   | 777 485     | Spring, Air Shift Return                | 1        |
| 15   | 883 479     | Adaptor, Air Shift Cyl.                 | 1        |
| 17   | 724 222     | Set Screw                               | 2        |
| 18   | 947 223     | Lockwire                                | 2        |
| 23   | 427 399     | Gasket, Shift Shaft Cap                 | 1        |
| 24   | 235 372     | Cap, Shift Shaft                        | 1        |
| 25   | 265 343     | Capscrew 1/4-20 x 1/2                   | 4        |
| 34   | 367 259     | Fork, Direct Drive Shift                | 1        |
| 35   | 367 268     | Fork, Under Drive Shift                 | 1        |
| 36   | 742 877     | Shaft H-N-U Air Shift                   | 1        |
| 37   | 883 887 003 | Tube, Shift Cyl.                        | 1        |
| 38   | 265 982     | Capscrew, Air Shift Cyl. 1/2-20 x 4 3/4 | 4        |



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The following parts are for PTO equipped cases:

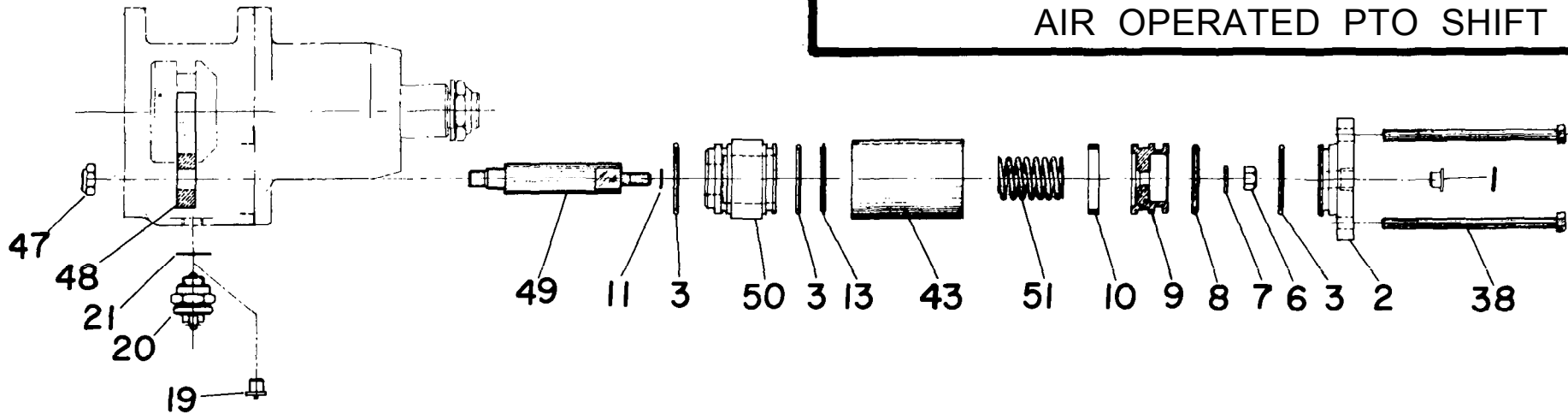


| ITEM | PART NO. | DESCRIPTION                                          | QUANTITY |
|------|----------|------------------------------------------------------|----------|
| 59   | 367 267  | Fork, PTO Shaft                                      | 1        |
| 60   | 432 552  | Collar, Sliding Clutch                               | 1        |
| 61   | 468 799  | Housing, Main PTO                                    | 1        |
| 62   | 724 335  | Capscrew, $\frac{7}{16}$ x $4\frac{1}{2}$ (12) Point | 2        |
| 63   | 233 439  | Bearing Cup                                          | 2        |
| 64   | 233 442  | Bearing Cone                                         | 2        |
| 65   | 769 237  | Shaft, PTO                                           | 1        |
| 66   | 7441323  | .031 Coral Shim                                      | A/R      |
|      | 7442323  | .016 Pink Shim                                       | A/R      |
|      | 7443323  | .005 Blue Shim                                       | A/R      |
| 67   | 237 425  | Carrier, Bearing & Seal                              | 1        |
| 68   | 265 242  | Capscrew, $\frac{3}{8}$ -16 x 1                      | 4        |
| 69   | 732 368  | Seal, PTO Output                                     | 1        |
| 70   | 883 944  | Tube, PTO Output (Temporary)                         | 1        |
| 71   | 927 762  | Washer, PTO Output Yoke                              | 1        |
| 72   | 688 634  | Nut, PTO Output Yoke                                 | 1        |

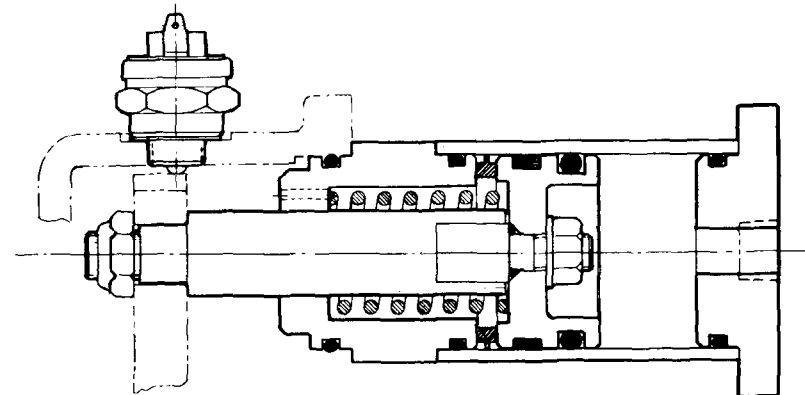
| ITEM | PART NO. | DESCRIPTION                               | QUANTITY |
|------|----------|-------------------------------------------|----------|
| 73   | 753 244  | Piston, PTO Oil Pump                      | 1        |
| 74   | 825 367  | Valve, PTO Piston Check                   | 1        |
| 75   | 762 299  | Retaining Ring, PTO Piston Check Valve    | 1        |
| 76   | 777 535  | Spring, PTO Oil Pump                      | 1        |
| 77   | 688 688  | Nut, PTO Oil Pump Cyl. Lock & Seal        | 1        |
| 78   | 758 232  | Plug, $\frac{1}{4}$ NPT PTO Oil Pump Cyl. | 1        |
| 79   | 295 389  | Cylinder, PTO Oil Pump                    | 1        |
| 80   | 825 737  | Valve, PTO Oil Pump In & Out Check        | 2        |
| 81   | 927 427  | Washer, Copper                            | 1        |
| 82   | 798 245  | Switch (If Specified)                     | 1        |
| 83   | 758 364  | Plug, $\frac{9}{16}$ -18 Plastic          | 1        |

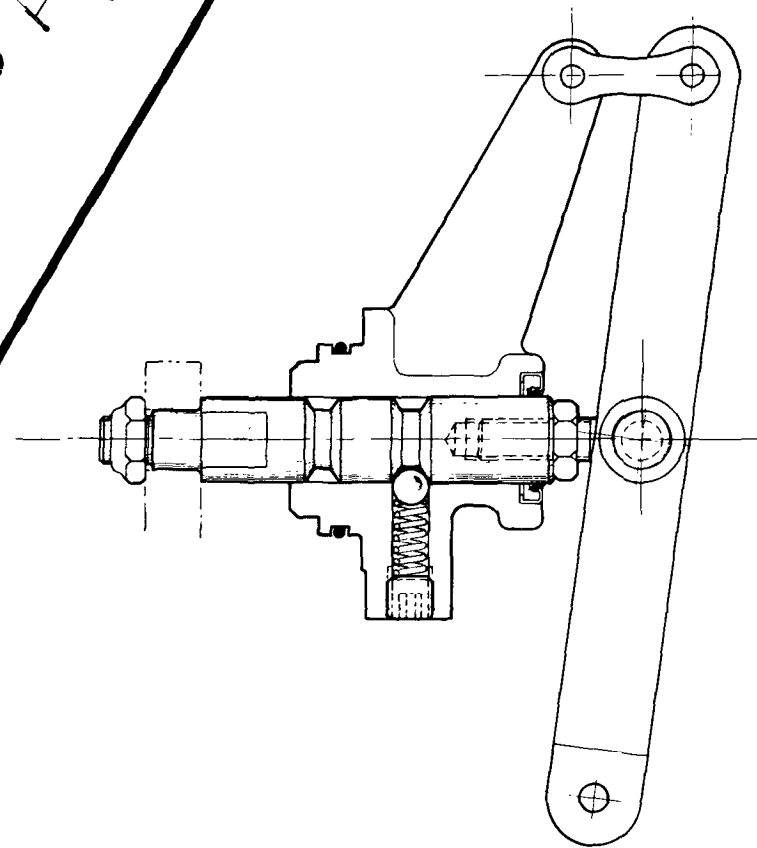
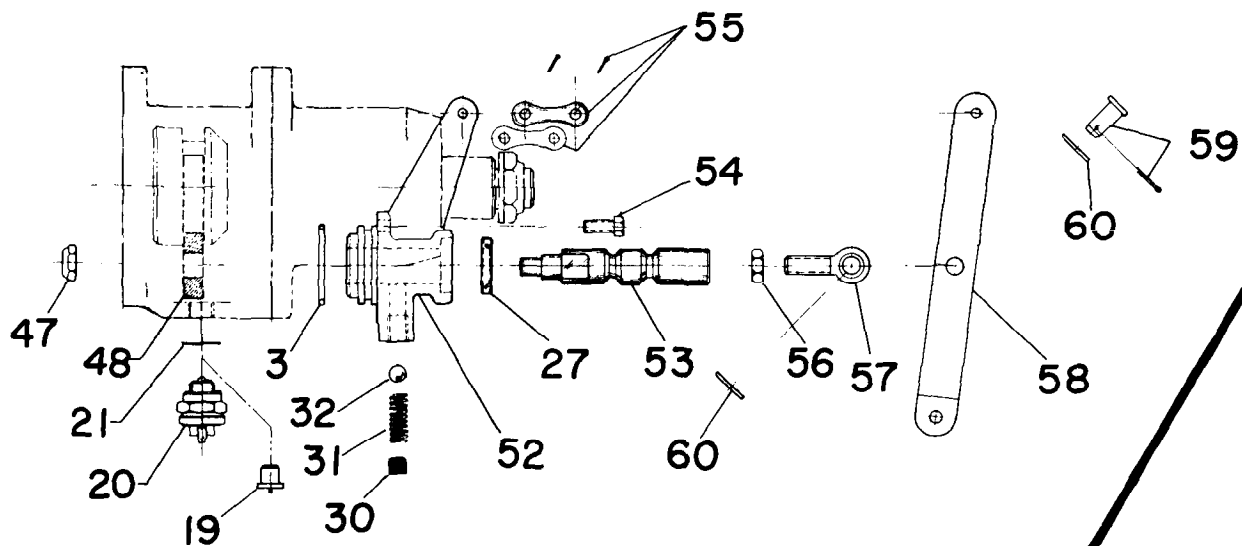
PTO

# AIR OPERATED PTO SHIFT



| ITEM | PART NO.    | DESCRIPTION                             | QUANTITY |
|------|-------------|-----------------------------------------|----------|
| 1    | 758 338     | Plastic Plug                            | 1        |
| 2    | 235 372     | Cap, Air Shift Cyl.                     | 1        |
| 3    | 675 224     | O-Ring, Air Shift Cap & Adaptor         | 3        |
| 6    | 688 464     | Nut, Shift Piston                       | 1        |
| 7    | 927 643     | Washer, Shift Piston                    | 1        |
| 8    | 675 326     | O-Ring, Shift Piston                    | 1        |
| 9    | 753 232     | Piston, Shift                           | 1        |
| 10   | 339 223     | Felt Ring, Shift Piston                 | 1        |
| 11   | 782 288     | O-Ring, Shift Shaft                     | 1        |
| 13   | 736 747     | Ring, Nylon Bump                        | 1        |
| 19   | 758 364     | Plastic Plug                            | 1        |
| 20   | 798 245     | Switch, Indicator                       | 1        |
| 21   | 927 427     | Washer, Copper                          | 1        |
| 38   | 265 982     | Capscrew, Air Shift Cyl. 1/2-20 x 4 3/4 | 4        |
| 43   | 883 887 007 | Tube, Piggyback Cyl. & PTO Cyl.         | 1        |
| 47   | 688 684     | Nut, PTO Shift Shaft                    | 1        |
| 48   | 367 267     | Fork, PTO Shift                         | 1        |
| 49   | 769 236     | Shaft, PTO Air Shift                    | 1        |
| 50   | 883 852     | Adaptor, PTO Air Shift Cyl.             | 1        |
| 51   | 777 534     | Spring, PTO Air Shift Cyl.              | 1        |





| ITEM | PART NO. | DESCRIPTION                     | QUANTITY |
|------|----------|---------------------------------|----------|
| 3    | 675 224  | O-Ring, Air Shift Cap & Adaptor | 1        |
| 19   | 758 364  | Plastic Ring                    | 1        |
| 20   | 798 245  | Switch, Indicator               | 1        |
| 21   | 927 427  | Washer, Copper                  | 1        |
| 27   | 732 357  | Seal, Shift Shaft               | 1        |
| 30   | 724 585  | Set Screw, Nylock               | 1        |
| 31   | 777 225  | Spring, Detent                  | 1        |
| 32   | 225 222  | Ball, Detent                    | 1        |
| 47   | 688 684  | Nut, PTO Shift Shaft            | 1        |
| 48   | 367 267  | Fork, PTO Shift                 | 1        |
| 52   | 235 466  | Carrier, Shift Shaft & Seal     | 1        |
| 53   | 769 238  | Shaft, PTO Shift-Manual         | 1        |
| 54   | 265 386  | Bolt, 1/4-20 x 3/4              | 4        |
| 55   | 246 289  | Link, Connecting                | 1        |
| 56   | 688 237  | Nut, 7/16-20 Jam                | 1        |
| 57   | 393 222  | Eye Bolt                        | 1        |
| 58   | 538 476  | Lever, PTO Shift                | 1        |
| 59   | 746 352  | Pin, Clevis w/Cotter Pin        | 1        |
| 60   | 927 347  | Washer                          | 2        |

## MANUAL PTO SHIFT

## Oil Lines &amp; Fittings — PTO

| ITEM | PART NO. | DESCRIPTION             | QUANTITY |
|------|----------|-------------------------|----------|
| 1    | 357 288  | Fitting, ½ MP ⅜ H JIC   | 1        |
| 2    | 469 794  | Hose Assembly, Suction  | 1        |
| 3    | 357 939  | Fitting, ¼ FP ⅜ H JIC   | 2        |
| 4    | 469 826  | Hose Assembly, Pressure | 1        |
| 5    | 357 948  | Elbow, ¼ MP ⅜ H         | 1        |

