



**Roadranger®**

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# Illustrated Parts List

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**RTO-18910B-AS2**  
**July 2011**

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## How To Use The Illustrated Parts List

The information contained in this document is subject to frequent updates. Therefore, for the latest information available, please visit the interactive Electronic Parts Catalog at [www.roadranger.com/epc](http://www.roadranger.com/epc).

### Model Designation or Nomenclature

- For information regarding Model Designation and Nomenclature, visit [www.roadranger.com](http://www.roadranger.com).

### Kits and Assemblies (K/A's)

- Kits and Assemblies contain groups of individual or assembled parts developed for optimal replacement or repair of a service problem.
- Kits and Assemblies are shown with applicable parts groupings in the parts listings.

### Identifying Kits and Assemblies

A- Part numbers beginning with the letter 'A' are pre-assembled Production Assemblies

K- Part numbers beginning with the letter 'K' are kits that are not assembled

S- Part numbers beginning with the letter 'S' are pre-assembled Service Assemblies

- Note: Some Production Assemblies do not begin with a letter prefix (Midrange only).

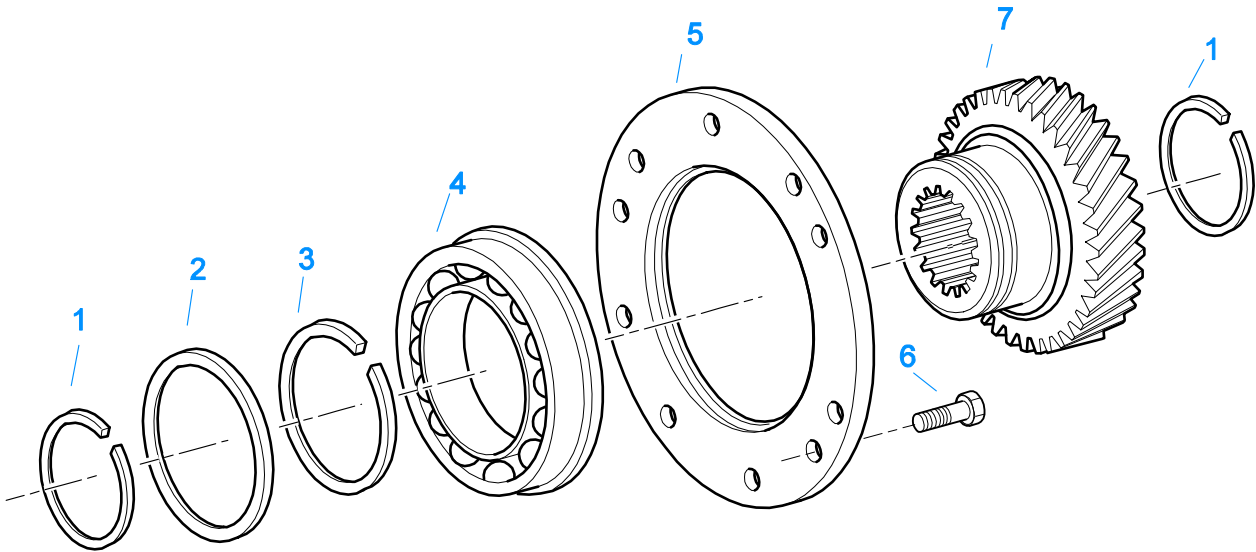
### Illustrations

- Illustrations show parts in assembly groups.
- Item numbers on illustrations correspond with parts listings on pages adjacent to the illustration.
- Notes are included on illustrations where additional information is needed.

### Parts Listing

Parts listings are defined by parts groupings and are broken down by service assemblies. Parts listings identify a part for servicing with the following categories

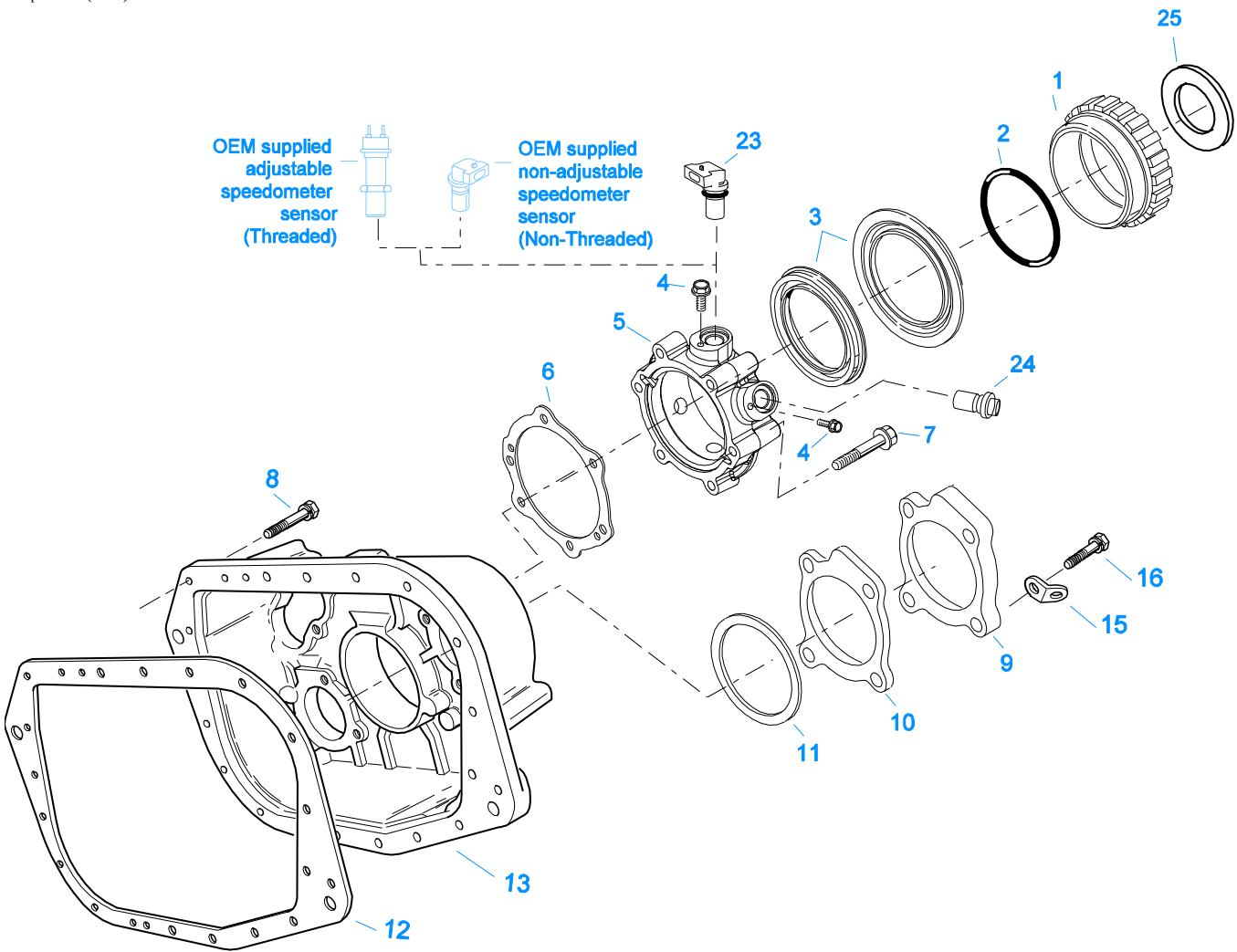
- **Item Number** - corresponding with numbers on illustrations for part identification.
- **Current Part** - identifies part as it is available for service.
- **Description** - specifies part name or description.
- **Replaced Part** - quantity quantity required for assembly.
- **Quantity** - defines unique characteristics or requirements.
- **Notes** - indicates Kits or Assemblies that contain a particular part.
- **Kits/Assy's Where Used**



10480-12/92 Aux DG

AUXILIARY DRIVE GEAR

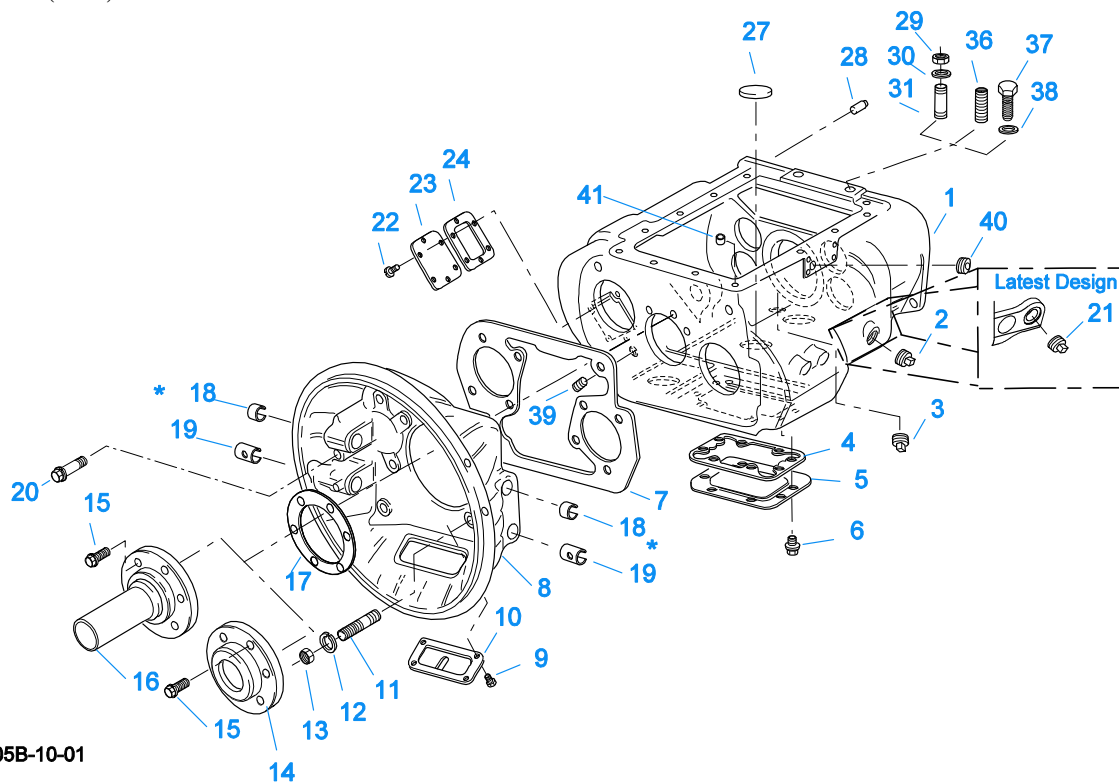
| Item | Current Part | Description          | Replaced Part   | Qty. | Notes      | Kits/Assys Where Needed |
|------|--------------|----------------------|-----------------|------|------------|-------------------------|
| 1    | 16763        | SNAP RING            |                 | 2    |            | K-3519,K-3522           |
| 2    | 21320        | SNAP RING RETAINER   |                 | 1    |            | K-3519,K-3522           |
| 3    | 16628        | SNAP RING            |                 | 1    |            |                         |
| 4    | 5566507-BOX  | BEARING              | 5566504,5566507 | 1    |            | K-3519,K-3522           |
| 5    | 16138        | BEARING RETAINER     |                 | 1    |            |                         |
| 6    | X-8-645      | CAPSCREW             | X 8 612         | 6    | 3/8"-16X1" |                         |
| 7    | 23159        | AUXILIARY DRIVE GEAR | 21321           | 1    |            |                         |



CASE (AUX)

| Item | Current Part | Description | Replaced Part | Qty. | Notes | Kits/Assys Where Needed |
|------|--------------|-------------|---------------|------|-------|-------------------------|
|------|--------------|-------------|---------------|------|-------|-------------------------|

| Item | Current Part | Description                 | Replaced Part            | Qty. | Notes                                                                                                     | Kits/Assys Where Needed     |
|------|--------------|-----------------------------|--------------------------|------|-----------------------------------------------------------------------------------------------------------|-----------------------------|
| 1    | S-2501       | SPEEDO ROTOR ASSY           | 4302242                  | 1    | MAGNETIC                                                                                                  |                             |
| 2    | 5568511      | -O- RING                    |                          | 1    |                                                                                                           | K-2918,S-2501,S-2913,S-2956 |
| 3    | K-2918       | OIL SEAL KIT                | 4302322 4302323          | 1    | "FOR MAGNETIC COVER"                                                                                      | K-3519,K-3522               |
| 4    | X-8-0801M    | CAPSCREW                    |                          | 3    | M8 X 1.25 X 12MM                                                                                          |                             |
| 5    | S-2913       | REAR BEARING COVER ASSY     | 691637 ,4304651 ,4305833 | 1    |                                                                                                           |                             |
| 6    | 1009551      | GASKET - RED EDGE MOLDED    |                          | 1    | RED EDGE MOLDED GASKET - UNCOMPRESSED THICKNESS .043 - .051 - NOT INTERCHANGEABLE WITH ANY OTHER GASKET   | K-2918,K-3518,S-2913        |
| 6    | 4302247      | GASKET - PURPLE EDGE MOLDED |                          | 1    | NON EDGE MOLDED GASKET - UNCOMPRESSED THICKNESS - .013 - .018 - NOT INTERCHANGEABLE WITH ANY OTHER GASKET | K-2918,K-3518               |
| 7    | X-8L-611     | CAPSCREW                    |                          | 4    | 3/8"-16X3-1/4"                                                                                            |                             |
| 7    | X-8L-614     | CAPSCREW                    |                          | 2    | 3/8"-16X2"                                                                                                |                             |
| 8    | X-8L-602     | CAPSCREW                    |                          | 16   | 3/8"-16X1-1/2"                                                                                            |                             |
| 8    | X-8L-614     | CAPSCREW                    |                          | 2    | 3/8"-16X2"                                                                                                |                             |
| 8    | X-8L-616     | CAPSCREW                    | X 8 616                  | 1    | 3/8"-16X2-3/4"                                                                                            |                             |
| 9    | 4302320      | COVER                       | 21346                    | 2    |                                                                                                           | S-2956                      |
| 10   | 4305978      | GASKET                      | 4302246                  | 2    |                                                                                                           | K-3518,S-2956               |
| 11   | K-2805       | SHIM KIT                    | 21452 K - 2106           | 1    |                                                                                                           | K-3519,K-3522,S-2956        |
| 12   | 14335        | GASKET                      |                          | 1    |                                                                                                           | K-3518,S-2956               |
| 13   | 4305046      | REAR HOUSING                |                          | 1    |                                                                                                           |                             |
| 15   | 20815        | LIFTING EYE                 | 17105                    | 2    |                                                                                                           | S-2956                      |
| 16   | X-8L-600     | CAPSCREW                    |                          | 8    | 3/8"-16X1"                                                                                                |                             |
| 23   | K-3231       | SPEED SENSOR KIT            | A - 6398 ,A - 6724       | 1    | SINGLE PICK-UP (2 PIN)                                                                                    |                             |
| 24   | K-3523       | SPEEDO PLUG KIT             | 4302707                  | 2    |                                                                                                           |                             |
| 25   | 4304653      | SHIELD                      |                          | 1    |                                                                                                           | S-2913                      |



10305B-10-01

\* Bushing quantity requirements: #1 Housing – Upper bore use 4 #12815 / Lower bore use 2 #8677.

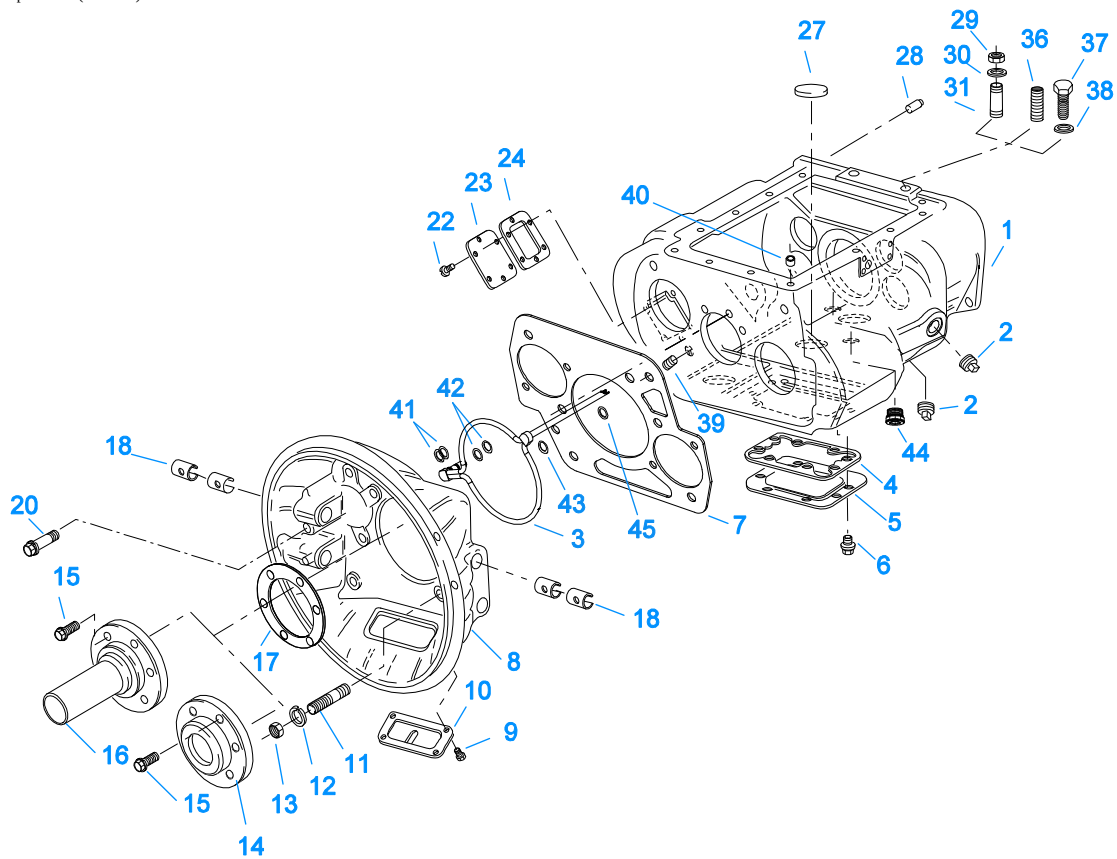
#2 Housing – Upper bore use 2 #12815 and 1 #8677 / Lower bore use 2 #8677.

**Note:** Some part requirements are specific to #1 or #2 Aluminum or Iron Clutch Housings and Push or Pull type Clutch.

## CASE (FRONT)

| Item | Current Part | Description           | Replaced Part                                    | Qty. | Notes                                    | Kits/Assys Where Needed            |
|------|--------------|-----------------------|--------------------------------------------------|------|------------------------------------------|------------------------------------|
| 1    | S-2998       | CASE ASSY             | 4302218 ,4305765 ,S - 2075                       | 1    | FOR USE W/INTEGRAL PUMP                  |                                    |
| 2    | X-12-2007    | PIPE PLUG             | X12 2006                                         | 1    |                                          |                                    |
| 3    | X-12-1207    | PIPE PLUG             | X12 1202 ,X12 1206                               | 1    | 3/4" MAGNETIC                            |                                    |
| 4    | 4305310      | GASKET                | 4302810                                          | 1    |                                          | K-3518                             |
| 5    | 4302809      | PTO COVER             | 16596 ,4300571                                   | 1    |                                          |                                    |
| 6    | X-8-725      | CAPSCREW              | X 8 724                                          | 8    | 7/16"-14X7/8"                            |                                    |
| 7    | 4306584      | CLUTCH HOUSING GASKET | 4304815,4305668                                  | 1    |                                          | K-3518,K-3671                      |
| 8    | A-3713       | CLUTCH HOUSING ASSY   | A - 3700                                         | 1    | #1 PUSH-PULL IRON                        |                                    |
| 8    | A-3723       | CLUTCH HOUSING ASSY   | A - 3721 ,A - 3722                               | 1    | #2 PUSH-PULL IRON                        |                                    |
| 8    | A-4772       | CLUTCH HOUSING ASSY   | A - 4344 ,A - 4771                               | 1    | #2 PUSH-PULL ALUM.                       |                                    |
| 8    | A-6064       | CLUTCH HOUSING ASSY   | A - 4342 ,A - 4770 ,A - 6062 ,A - 6063 ,A - 6065 | 1    | #1 PUSH-PULL ALUM.                       |                                    |
| 9    | 239614       | SCREW                 | X-8L-509                                         | 4    | 5/16-18X.81 QUANTITY DEPENDENT ON DESIGN |                                    |
| 10   | 14506        | HAND HOLE COVER       |                                                  | 1    | #2 PUSH                                  |                                    |
| 10   | 14507        | HAND HOLE COVER       |                                                  | 1    | #2 PULL                                  |                                    |
| 10   | 4305230      | HAND HOLE COVER       | 11453                                            | 1    | #1 PULL                                  |                                    |
| 10   | 4305231      | HAND HOLE COVER       | 1565                                             | 1    | #1 PUSH                                  |                                    |
| 11   | 4306583      | STUD                  | 5966                                             | 6    |                                          |                                    |
| 12   | X-10-1005    | WASHER                | X 3 1000 ,X10 1000 ,X10 1004                     | 6    | 1.23 X 6.60                              |                                    |
| 13   | X-1-1012     | HEX NUT               |                                                  | 6    | .625-18                                  |                                    |
| 14   | 20550        | FRONT BRG COVER       |                                                  | 1    | 2" PULL                                  | K-2468,K-4125                      |
| 15   | X-8L-604     | CAPSCREW              |                                                  | 6    | 3/8"-16X1-1/4"                           |                                    |
| 16   | 20549        | FRONT BRG COVER       |                                                  | 1    | 2" PUSH                                  |                                    |
| 17   | 14311        | GASKET                |                                                  | 1    |                                          | K-3518                             |
| 18   | 12815        | BUSHING               |                                                  | 2    | FOR #2 HOUSING UPPER                     | A-3713,A-3723,A-4772,A-6064,K-2468 |

| Item | Current Part | Description                | Replaced Part                | Qty. | Notes                                                                       | Kits/Assys Where Needed            |
|------|--------------|----------------------------|------------------------------|------|-----------------------------------------------------------------------------|------------------------------------|
| 18   | 12815        | BUSHING                    |                              | 4    | FOR #1 HOUSING UPPER                                                        | A-3713,A-3723,A-4772,A-6064,K-2468 |
| 18   | 8677         | BUSHING                    |                              | 1    | FOR #2 HOUSING UPPER                                                        | A-3713,A-3723,A-4772,A-6064        |
| 19   | 8677         | BUSHING                    |                              | 2    | FOR #1 AND #2 HOUSING LOWER                                                 | A-3713,A-3723,A-4772,A-6064        |
| 20   | X-8C-830     | HEX HEAD SCREW/WASHER ASSY | X-8C-826                     | 4    | .500-13 X 1.490, USE 2 PCS FOR IRON HOUSING, USE 4 PCS FOR ALUMINUM HOUSING |                                    |
| 20   | X-8C-831     | HEX HEAD SCREW/WASHER ASSY | X-8C-822                     | 2    | .500-13 X 3.460, FOR IRON HOUSING                                           |                                    |
| 21   | 4304023      | PLUG                       | 4303747                      | 1    | 1-1/16" MAGNETIC, O-RING INCLUDED                                           | S-2995,S-2996,S-2998               |
| 22   | X-8-686      | CAPSCREW                   |                              | 6    | 3/8"-16X3/4"                                                                |                                    |
| 23   | 14575        | PTO COVER                  | 4302254                      | 1    |                                                                             |                                    |
| 24   | 4305309      | GASKET                     | 1684                         | 1    |                                                                             | K-3518                             |
| 27   | 14373        | MAGNET                     |                              | 3    |                                                                             | S-2995,S-2996,S-2998               |
| 28   | 18128        | PIN                        |                              | 2    |                                                                             |                                    |
| 29   | X-1-1012     | HEX NUT                    |                              | 2    | .625-18                                                                     |                                    |
| 30   | X-10-1005    | WASHER                     | X 3 1000 ,X10 1000 ,X10 1004 | 2    | 1.23 X 6.60                                                                 |                                    |
| 31   | 14554        | STUD                       | 1632 ,6579                   | 2    | 5/8" X 2-3/16"                                                              |                                    |
| 36   | 23104        | PLUG                       | 1712                         | 2    |                                                                             |                                    |
| 37   | X-8-1005     | CAPSCREW                   |                              | 2    | 5/8"-11X1-1/4"                                                              |                                    |
| 38   | 20814        | SPACER                     |                              | 2    |                                                                             |                                    |
| 39   | X-12-802     | PIPE PLUG                  | X12 800                      | 1    | 1/2"                                                                        |                                    |
| 40   | X-12-1207    | PIPE PLUG                  | X12 1202 ,X12 1206           | 1    | 3/4" MAGNETIC                                                               |                                    |
| 41   | 691447       | PIN                        |                              | 1    |                                                                             | S-2995,S-2996,S-2998               |

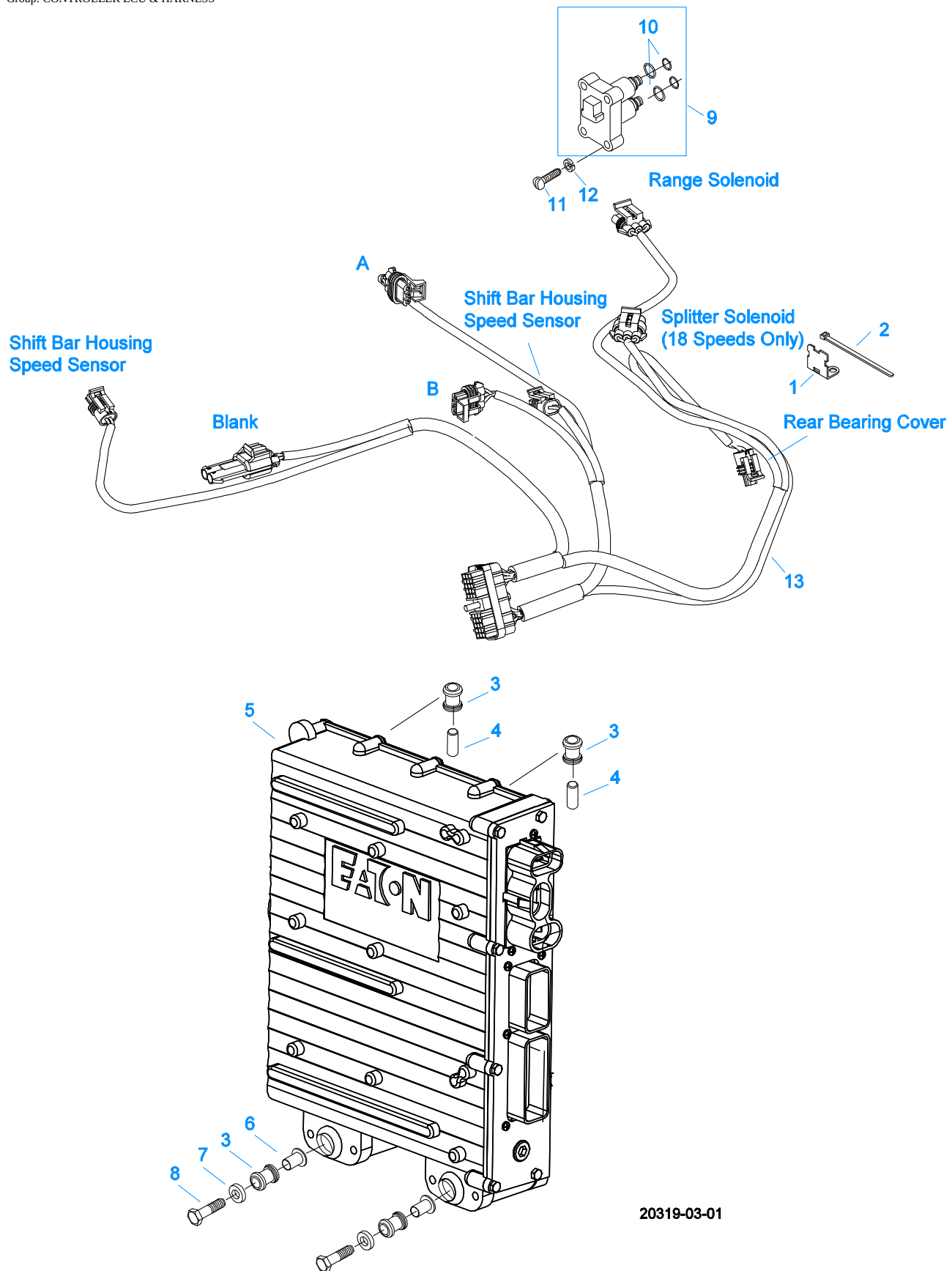


10319C-08-04

## CASE (FRONT) FORCED LUBE

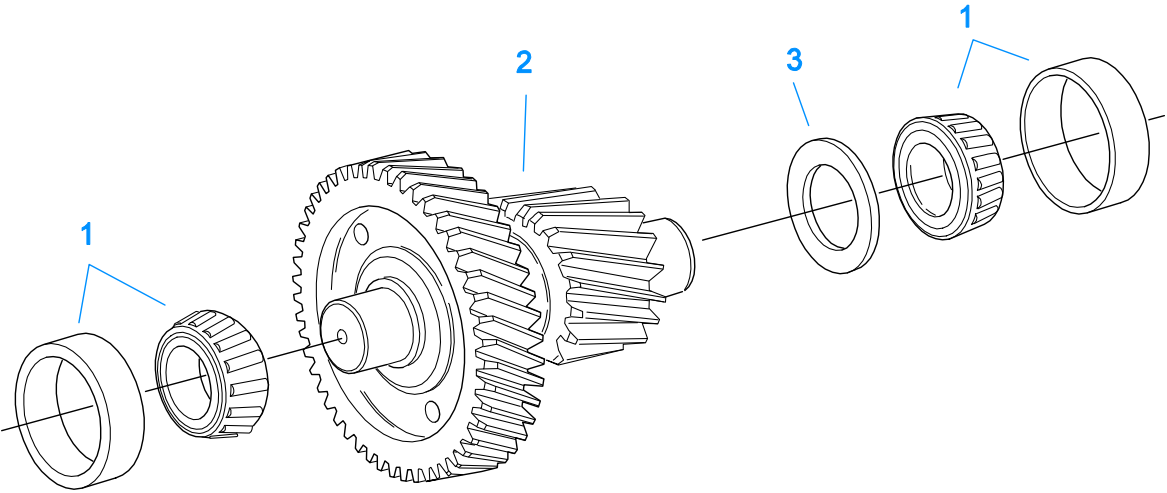
| Item | Current Part | Description                | Replaced Part                | Qty. | Notes                                    | Kits/Assys Where Needed            |
|------|--------------|----------------------------|------------------------------|------|------------------------------------------|------------------------------------|
| 1    | S-2995       | CASE ASSY                  | 4305765                      | 1    |                                          |                                    |
| 2    | 4304023      | PLUG                       | 4303747                      | 2    | 1-1/16" MAGNETIC, O-RING INCLUDED        | S-2995,S-2996,S-2998               |
| 3    | A-7471       | EXTENDED LUBE TUBE ASSY    | 4305393                      | 1    |                                          |                                    |
| 4    | 4305310      | GASKET                     | 4302810                      | 1    |                                          | K-3518                             |
| 5    | 4302809      | PTO COVER                  | 16596,4300571                | 1    |                                          |                                    |
| 6    | X-8-725      | CAPSCREW                   | X 8 724                      | 8    | 7/16"-14X7/8"                            |                                    |
| 7    | 4306584      | CLUTCH HOUSING GASKET      | 4304815,4305668              | 1    |                                          | K-3518,K-3671                      |
| 8    | K-3671       | FORCED LUBE CL HSG KIT     | A - 7148                     | 1    | #1 PULL IRON                             |                                    |
| 9    | 239614       | SCREW                      | X-8L-509                     | 4    | 5/16-18X.81 QUANTITY DEPENDENT ON DESIGN |                                    |
| 10   | 4305230      | HAND HOLE COVER            | 11453                        | 1    | #1 PULL                                  |                                    |
| 10   | 4305231      | HAND HOLE COVER            | 1565                         | 1    | #1 PUSH                                  |                                    |
| 11   | 4306583      | STUD                       | 5966                         | 6    |                                          |                                    |
| 12   | X-10-1005    | WASHER                     | X 3 1000 ,X10 1000 ,X10 1004 | 6    | 1.23 X 6.60                              |                                    |
| 13   | X-1-1012     | HEX NUT                    | X-1-1005                     | 6    | .625-18                                  |                                    |
| 14   | 20550        | FRONT BEARING COVER        |                              | 1    | 2" PULL                                  | K-2468,K-4125                      |
| 15   | X-8L-604     | CAPSCREW                   |                              | 6    | 3/8"-16X1-1/4"                           |                                    |
| 16   | 20549        | FRONT BEARING COVER        |                              | 1    | 2" PUSH                                  |                                    |
| 17   | 14311        | GASKET                     |                              | 1    |                                          | K-3518                             |
| 18   | 12815        | BUSHING                    |                              | 4    |                                          | A-3713,A-3723,A-4772,A-6064,K-2468 |
| 20   | X-8C-830     | HEX HEAD SCREW/WASHER ASSY | X-8C-826                     | 4    | .500-13 X 1.490                          |                                    |
| 20   | X-8C-831     | HEX HEAD SCREW/WASHER ASSY | X-8C-822                     | 2    | .500-13 X 3.460                          |                                    |
| 22   | X-8-686      | CAPSCREW                   |                              | 6    | 3/8"-16X3/4"                             |                                    |
| 23   | 14575        | PTO COVER                  | 4302254                      | 1    |                                          |                                    |

| Item | Current Part | Description   | Replaced Part                   | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|---------------|---------------------------------|------|----------------|-------------------------|
| 24   | 4305309      | GASKET        | 1684                            | 1    |                | K-3518                  |
| 27   | 14373        | MAGNET        |                                 | 3    |                | S-2995,S-2996,S-2998    |
| 28   | 18128        | PIN           |                                 | 2    |                |                         |
| 29   | X-1-1012     | HEX NUT       |                                 | 2    | .625-18        |                         |
| 30   | X-10-1005    | WASHER        | X 3 1000 ,X10 1000<br>,X10 1004 | 2    | 1.23 X 6.60    |                         |
| 31   | 14554        | STUD          | 1632 ,6579                      | 2    | 5/8" X 2-3/16" |                         |
| 36   | 23104        | PLUG          | 1712                            | 2    |                |                         |
| 37   | X-8-1005     | CAPSCREW      |                                 | 2    | 5/8"-11X1-1/4" |                         |
| 38   | 20814        | SPACER        |                                 | 2    |                |                         |
| 39   | X-12-802     | PIPE PLUG     | X12 800                         | 1    | 1/2"           |                         |
| 40   | 691447       | PIN           |                                 | 1    |                | S-2995,S-2996,S-2998    |
| 41   | 13835        | -O- RING      |                                 | 2    |                |                         |
| 42   | 13653        | -O- RING      |                                 | 2    |                | K-2908                  |
| 43   | 5568544      | -O- RING      |                                 | 1    |                |                         |
| 44   | 4305740      | HEX HEAD PLUG |                                 | 1    |                | S-2995,S-2996,S-2998    |
| 45   | 13834        | -O- RING      |                                 | 1    |                |                         |



## CONTROLLER ECU & HARNESS

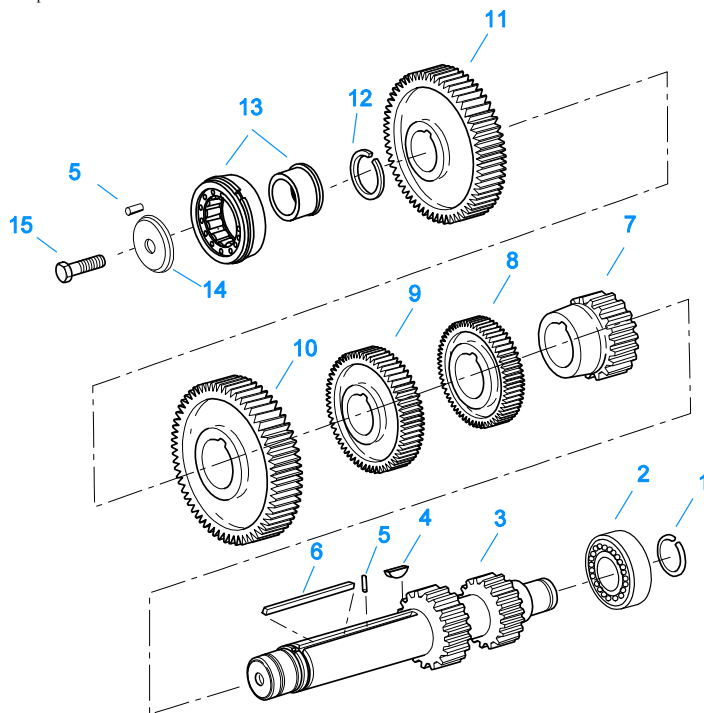
| Item | Current Part | Description                                | Replaced Part              | Qty. | Notes              | Kits/Assys Where Needed |
|------|--------------|--------------------------------------------|----------------------------|------|--------------------|-------------------------|
| 1    | 4301302      | BRACKET                                    |                            | 3    |                    |                         |
| 2    | 5559348      | TY-RAP                                     |                            | 8    |                    | K-3682,K-4118           |
| 3    | 4301367      | MOUNTING PAD                               |                            | 4    |                    |                         |
| 4    | 4301378      | DOWEL PIN                                  |                            | 2    |                    | S-2905,S-2927           |
| 5    | K-3444RX     | REMAN EXCHANGE TRANSMISSION CONTROLLER KIT | K-3444, K-3444R            | 1    |                    |                         |
| 6    | 4301369      | SLEEVE                                     |                            | 2    |                    |                         |
| 7    | 4302114      | WASHER                                     |                            | 2    |                    |                         |
| 8    | X-8-552      | SCREW                                      |                            | 2    | 5/16"-18X1-1/2"    |                         |
| 9    | K-3682       | RANGE/SPLITTER VALVE KIT                   | 5561801 ,5561804 ,K - 2907 | 1    |                    |                         |
| 10   | K-2908       | -O- RING KIT                               |                            | 1    | FOR SOLENOID VALVE |                         |
| 11   | X-8-264      | HEX FLANGE HEAD SCREW                      | X 8 259                    | 4    | #10-24 X 1 1/4     |                         |
| 12   | X-3-301      | LOCKWASHER                                 |                            | 4    | #10 PLAIN          |                         |
| 13   | K-4118       | TRANSMISSION HARNESS KIT                   | 691664,K-3527              | 1    |                    |                         |



10440-1/92 Aux CS Helical

COUNTERSHAFT & BRGS (AUX)

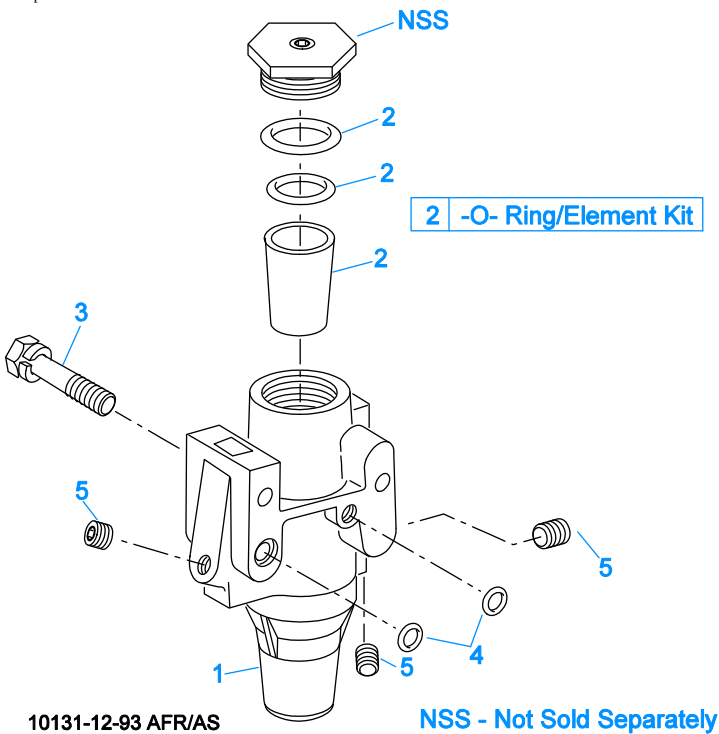
| Item | Current Part | Description              | Replaced Part | Qty. | Notes                   | Kits/Assys Where Needed |
|------|--------------|--------------------------|---------------|------|-------------------------|-------------------------|
| 1    | 4302074-BOX  | BEARING                  | 21343,4302074 | 4    |                         | K-3519,K-3522           |
| 2    | A-6338       | WELDED COUNTERSHAFT ASSY | A - 5626      | 2    | C/S 4302093 - D/G 23160 |                         |
| 3    | 21342        | SPACER                   |               | 2    |                         |                         |



10341-1/92 CS/RT

## COUNTERSHAFT ASSY

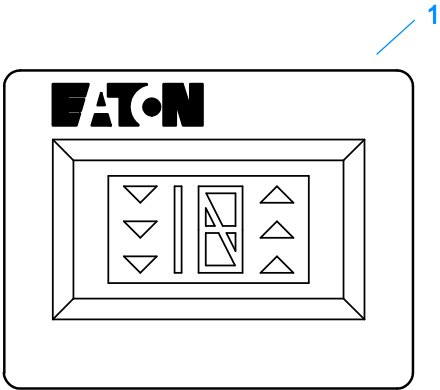
| Item | Current Part | Description          | Replaced Part   | Qty. | Notes                       | Kits/Assys Where Needed |
|------|--------------|----------------------|-----------------|------|-----------------------------|-------------------------|
| 1    | 14317        | SNAP RING            |                 | 2    |                             | K-3519,K-3522           |
| 2    | 14366        | BEARING              |                 | 2    |                             | K-3519,K-3522           |
| 3    | 4303621      | CNTRSHFT-W/REV & 1ST | 4303619         | 2    |                             |                         |
| 4    | X-6-E        | KEY                  |                 | 2    |                             |                         |
| 5    | 62511        | ROLL PIN             |                 | 4    |                             |                         |
| 6    | 4304840      | KEY                  | 19673           | 2    |                             |                         |
| 7    | 4305056      | 2ND GEAR-CNTRSHFT    |                 | 2    |                             |                         |
| 8    | 20482        | 3RD GEAR-CNTRSHFT    | 19615           | 2    |                             |                         |
| 9    | 4305052      | OD GEAR-CNTRSHFT     | 4302089         | 2    |                             |                         |
| 10   | 15953        | PTO GEAR - LOWER     |                 | 1    |                             |                         |
| 10   | 20840        | PTO GEAR - UPPER     | 15952           | 1    |                             |                         |
| 11   | 4305050      | DRIVE GEAR-CNTRSHFT  |                 | 2    |                             |                         |
| 12   | 19198        | SNAP RING            |                 | 2    |                             |                         |
| 13   | 4304599      | BEARING              | 4302677 4304598 | 2    |                             | K-3519,K-3522           |
| 14   | 4304605      | RETAINER             | 19548           | 2    | ROLL PIN NO LONGER REQUIRED |                         |
| 15   | X-7-1005     | CAPSCREW             |                 | 2    | 5/8"-18X1-3/4"              |                         |



**FILTER REGULATOR**

| Item | Current Part | Description          | Replaced Part | Qty. | Notes                | Kits/Assys Where Needed |
|------|--------------|----------------------|---------------|------|----------------------|-------------------------|
| 1    | K-2170       | FILTER REG KIT       | A - 5454      | 1    |                      |                         |
| 2    | K-1698       | -O- RING/ELEMENT KIT |               | 1    | FOR FILTER REGULATOR |                         |
| 3    | X-8C-412     | CAPSCREW             | X 8S 412      | 2    | 1/4"-20X2-1/4"       |                         |
| 4    | 15114        | -O- RING             |               | 2    |                      | K-2170,K-3365,K-3484    |
| 5    | X-12-208     | PIPE PLUG            |               | 3    | 1/8" NPT             |                         |

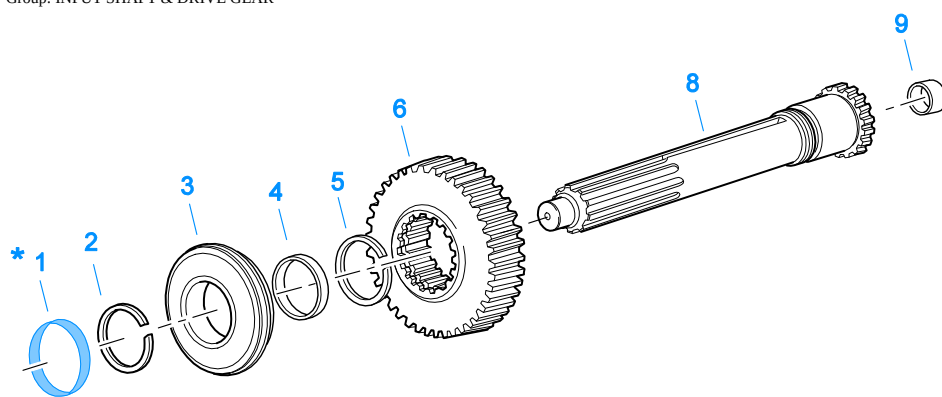
Group: GEAR DISPLAY MODULE



30317-03-01

GEAR DISPLAY MODULE

| Item | Current Part | Description           | Replaced Part | Qty. | Notes | Kits/Assys Where Needed |
|------|--------------|-----------------------|---------------|------|-------|-------------------------|
| 1    | K-3199       | DRIVER DISPLAY MODULE | 4302640       | 1    |       |                         |



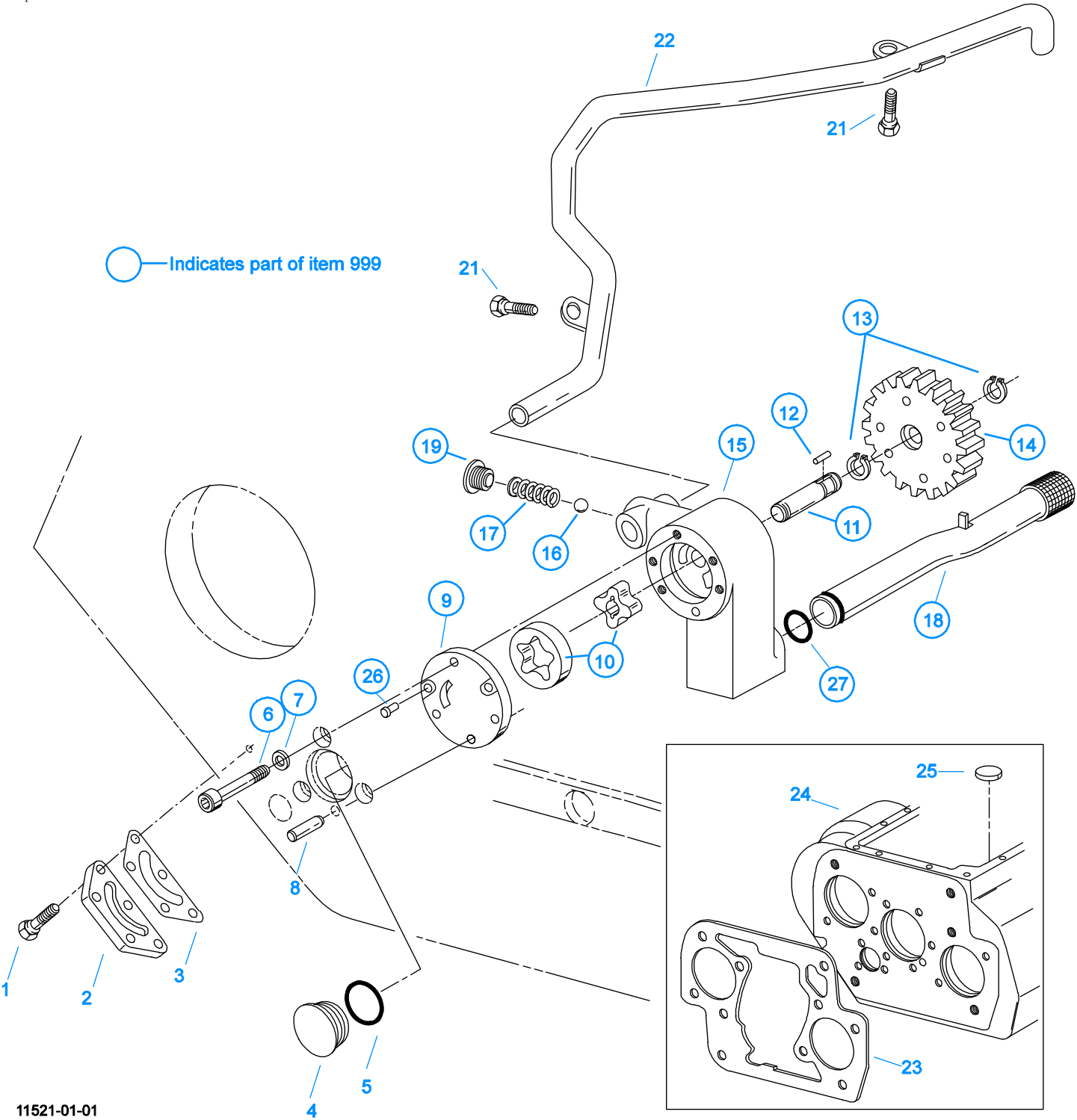
\* For Shipping Only -- Do Not Replace

\*

10370-1/92 IS

## INPUT SHAFT & DRIVE GEAR

| Item | Current Part | Description     | Replaced Part       | Qty. | Notes                     | Kits/Assys Where Needed     |
|------|--------------|-----------------|---------------------|------|---------------------------|-----------------------------|
| 1    | 23559        | SHIPPING SEAL   |                     | 1    | NOT SOLD FOR SERVICE      |                             |
| 2    | 16980        | SNAP RING       |                     | 1    |                           | K-2468,K-3519,K-4125        |
| 3    | 81504        | BEARING         |                     | 1    |                           | K-2468,K-3519,K-3522,K-4125 |
| 4    | 16463        | SPACER          |                     | 1    |                           |                             |
| 5    | 14750        | SNAP RING       |                     | 1    |                           | K-2468,K-3519,K-3522,K-4125 |
| 6    | 4305049      | MAIN DRIVE GEAR |                     | 1    |                           |                             |
| 8    | S-1659       | INPUT SHAFT     | 20535 23566 4302661 | 1    | 2" PULL - USE W/FBC 20550 | K-2468,K-3519,K-4125        |
| 8    | S-1660       | INPUT SHAFT     | 20536 ,23567        | 1    | 2" PUSH - USE W/FBC 20549 |                             |
| 9    | 16566        | BUSHING         |                     | 1    |                           | K-3522,S-1659,S-1660        |



INTEGRAL OIL PUMP

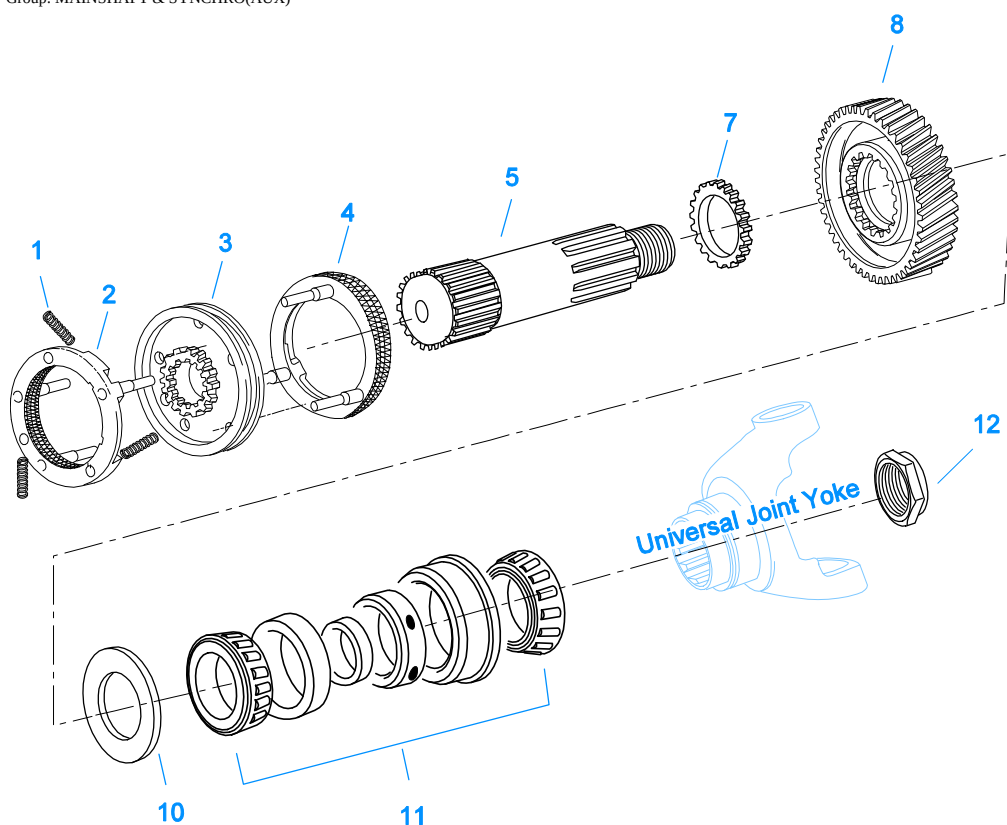
| Item | Current Part | Description       | Replaced Part  | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|-------------------|----------------|------|----------------|-------------------------|
| 1    | X-8C-409     | CAPSCREW          |                | 5    | 1/4"-20X5/8"   |                         |
| 2    | K-2402       | COVER & SCREW KIT | 20513 ,4300751 | 1    |                |                         |
| 3    | 20514        | GASKET            |                | 1    |                | K-2402                  |
| 4    | 20823        | PLUG              |                | 1    |                |                         |
| 5    | 14765        | -O- RING          |                | 1    |                | K-3484                  |
| 6    | X-8-448      | SCREW             | X 8 445        | 3    | 1/4"-20X1-1/4" |                         |
| 7    | 20824        | WASHER            |                | 3    |                | K-3367                  |

| Item | Current Part | Description           | Replaced Part                                                        | Qty. | Notes                                                  | Kits/Assys Where Needed |
|------|--------------|-----------------------|----------------------------------------------------------------------|------|--------------------------------------------------------|-------------------------|
| 8    | 20825        | DOWEL PIN             |                                                                      | 1    |                                                        |                         |
| 9    | 4303773      | RETAINER              |                                                                      | 1    |                                                        |                         |
| 10   | K-3367       | OIL PUMP KIT          | 4301829 ,4301948<br>,4303776 ,4304529<br>,4304572 A - 6963 ,A - 7173 | 1    |                                                        |                         |
| 11   | K-3367       | OIL PUMP KIT          | 4301829 ,4301948<br>,4303776 ,4304529<br>,4304572 A - 6963 ,A - 7173 | 1    |                                                        |                         |
| 12   | 20509        | KEY                   |                                                                      | 1    |                                                        |                         |
| 13   | 14853        | SNAP RING             |                                                                      | 2    |                                                        |                         |
| 14   | 4303774      | PUMP DRIVE GEAR       | 4304880                                                              | 1    |                                                        |                         |
| 15   | K-3367       | OIL PUMP KIT          | 4301829 ,4301948<br>,4303776 ,4304529<br>,4304572 A - 6963 ,A - 7173 | 1    |                                                        |                         |
| 16   | X-14-700     | STEEL BALL            |                                                                      | 1    | 7/16"                                                  |                         |
| 17   | 4303775      | SPRING                |                                                                      | 1    |                                                        |                         |
| 18   | 4305713      | SUCTION TUBE          | 4304628                                                              | 1    | O-RING INCLUDED ON SUCTION TUBE                        | K-3367                  |
| 19   | 4304629      | PLUG                  |                                                                      | 1    |                                                        |                         |
| 21   | X-8-686      | CAPSCREW              |                                                                      | 2    | 3/8"-16X3/4"                                           |                         |
| 22   | 4305715      | SPLITTER LUBE TUBE    | A - 7197                                                             | 1    |                                                        |                         |
| 23   | 4306584      | CLUTCH HOUSING GASKET | 4304815,4305668                                                      | 1    |                                                        | K-3518,K-3671           |
| 24   | S-2995       | CASE ASSY             | 4305765                                                              | 1    | FOR UNITS BUILT WITH THE FORCED LUBRICATION DESIGN     |                         |
| 24   | S-2998       | CASE ASSY             | 4302218 ,4305765 ,S - 2075                                           | 1    | FOR UNITS BUILT PRIOR TO THE FORCED LUBRICATION DESIGN |                         |
| 25   | 14373        | MAGNET                |                                                                      | 3    |                                                        | S-2995,S-2996,S-2998    |
| 26   | X-8-447      | SCREW                 |                                                                      | 2    |                                                        |                         |
| 27   | 20225        | -O- RING              |                                                                      | 1    |                                                        |                         |
| 999  | K-3367       | OIL PUMP KIT          | 4301829 ,4301948<br>,4303776 ,4304529<br>,4304572 A - 6963 ,A - 7173 | 1    |                                                        |                         |

## KITS & ASSEMBLIES

| Item     | Current Part | Description                                     | Replaced Part                                                  | Qty. | Notes                                                                                                             | Kits/Assys Where Needed |
|----------|--------------|-------------------------------------------------|----------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| K-1698   |              | -O- RING/ELEMENT KIT                            |                                                                | 1    | FOR FILTER REGULATOR                                                                                              |                         |
| K-1956   |              | COOLER INSTLN KIT                               |                                                                | 1    |                                                                                                                   |                         |
| K-2170   |              | FILTER REG KIT                                  | A - 5454                                                       | 1    |                                                                                                                   |                         |
| K-2402   |              | COVER & SCREW KIT                               | 20513 ,4300751                                                 | 1    |                                                                                                                   |                         |
| K-2468   |              | CLUTCH INSTALLATION KIT                         |                                                                | 1    | FOR USE WITH S-1659 INPUT SHAFT ASSY AND 81504 INPUT SHAFT BEARING                                                |                         |
| K-2805   |              | SHIM KIT                                        | 21452 K - 2106                                                 | 1    |                                                                                                                   | K-3519,K-3522,S-2956    |
| K-2908   |              | -O- RING KIT                                    |                                                                | 1    | FOR SOLENOID VALVE                                                                                                |                         |
| K-2918   |              | OIL SEAL KIT                                    | 4302322 4302323                                                | 1    | "FOR MAGNETIC COVER"                                                                                              | K-3519,K-3522           |
| K-2942   |              | COUNTERSHAFT REPL KIT                           | 4301224 ,4301225                                               | 1    |                                                                                                                   |                         |
| K-3231   |              | SPEED SENSOR KIT                                | A - 6398 ,A - 6724                                             | 1    | SINGLE PICK-UP (2 PIN)                                                                                            |                         |
| K-3365   |              | RANGE CYL COVER KIT                             | 691442                                                         | 1    |                                                                                                                   |                         |
| K-3367   |              | OIL PUMP KIT                                    | 4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173 | 1    |                                                                                                                   |                         |
| K-3436   |              | XY SHIFTER KIT                                  | 691381 ,A - 7034                                               | 1    |                                                                                                                   |                         |
| K-3438   |              | POSITION SENSOR KIT                             | 691551 ,691926                                                 | 1    |                                                                                                                   |                         |
| K-3444RX |              | REMAN EXCHANGE TRANSMISSION CONTROLLER KIT      | K-3444, K-3444R                                                | 1    |                                                                                                                   |                         |
| K-3484   |              | O-RING KIT - RANGE                              |                                                                | 1    |                                                                                                                   | K-3519,K-3522           |
| K-3492   |              | SYNCHRONIZER KIT                                | K - 2446                                                       | 1    |                                                                                                                   |                         |
| K-3494   |              | SYNCHRONIZER REPLACEMENT KIT                    | K - 2448                                                       | 1    | SLIDING CLUTCH INCLUDED IN KIT                                                                                    |                         |
| K-3518   |              | GASKET KIT                                      |                                                                | 1    |                                                                                                                   | K-3519,K-3522           |
| K-3519   |              | BASIC OVERHAUL KIT                              |                                                                | 1    |                                                                                                                   |                         |
| K-3522   |              | BASIC REBUILD KIT                               |                                                                | 1    |                                                                                                                   |                         |
| K-3523   |              | SPEEDO PLUG KIT                                 | 4302707                                                        | 1    |                                                                                                                   |                         |
| K-3651   |              | OIL SEAL TOOL KIT                               |                                                                | 1    |                                                                                                                   |                         |
| K-3671   |              | FORCED LUBE CL HSG KIT                          | A - 7148                                                       | 1    | #1 PULL IRON                                                                                                      |                         |
| K-3682   |              | RANGE/SPLITTER VALVE KIT                        | 5561801 ,5561804 ,K - 2907                                     | 1    |                                                                                                                   |                         |
| K-3979   |              | SPACER KIT                                      |                                                                | 1    | INCLUDES (4) SPACER MOUNTING SCREWS                                                                               |                         |
| K-3980   |              | COBRA SHIFT LEVER KIT (RHO)                     | K-3680                                                         | 1    | (LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION                                                       |                         |
| K-3997   |              | COBRA SHIFT LEVER KIT (RHO) W/MACK SWING ARM    | A - 7181,K-3680                                                | 1    | (LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION - FOR UNITS USING THE MACK 10MY559M SWING ARM BRACKET |                         |
| K-4118   |              | TRANSMISSION HARNESS KIT                        | 691664,K-3527                                                  | 1    |                                                                                                                   |                         |
| K-4125   |              | CLUTCH INSTALLATION KIT (RT), HYDRAULIC RELEASE |                                                                | 1    | STANDARD RT INPUT SHAFT AND YOKE FOR HYDRAULIC CLUTCH RELEASE                                                     |                         |
| S-1404   |              | OIL FILTER                                      | 17238                                                          | 1    |                                                                                                                   |                         |
| S-1659   |              | INPUT SHAFT                                     | 20535 23566 4302661                                            | 1    | 2" PULL - USE W/FBC 20550                                                                                         | K-2468,K-3519,K-4125    |
| S-1660   |              | INPUT SHAFT                                     | 20536 ,23567                                                   | 1    | 2" PUSH - USE W/FBC 20549                                                                                         |                         |
| S-2501   |              | SPEEDO ROTOR ASSY                               | 4302242                                                        | 1    | MAGNETIC                                                                                                          |                         |
| S-2688   |              | MAINSHAFT ASSY                                  | 4303404 ,4303913                                               | 1    |                                                                                                                   |                         |
| S-2905   |              | SHIFT BAR HOUSING ASSY                          | 691532                                                         | 1    | COMPLETE - FOR UNITS BUILT PRIOR TO THE FORCED LUBRICATION SYSTEM DESIGN                                          |                         |
| S-2913   |              | REAR BEARING COVER ASSY                         | 691637 ,4304651 ,4305833                                       | 1    |                                                                                                                   |                         |
| S-2915   |              | SHIFT BAR HOUSING ASSY                          | 691532                                                         | 1    | HOUSING ONLY (DOES NOT INCLUDE SPEED SENSORS)                                                                     |                         |
| S-2927   |              | SHIFT BAR HOUSING ASSY                          | 691532                                                         | 1    | COMPLETE - FOR UNITS BUILT WITH THE FORCED LUBRICATION SYSTEM DESIGN                                              |                         |
| S-2956   |              | RANGE SECTION ASSY                              |                                                                | 1    | "B" RATIO                                                                                                         |                         |
| S-2989   |              | PUSHBUTTON                                      | S - 2985                                                       | 1    |                                                                                                                   |                         |

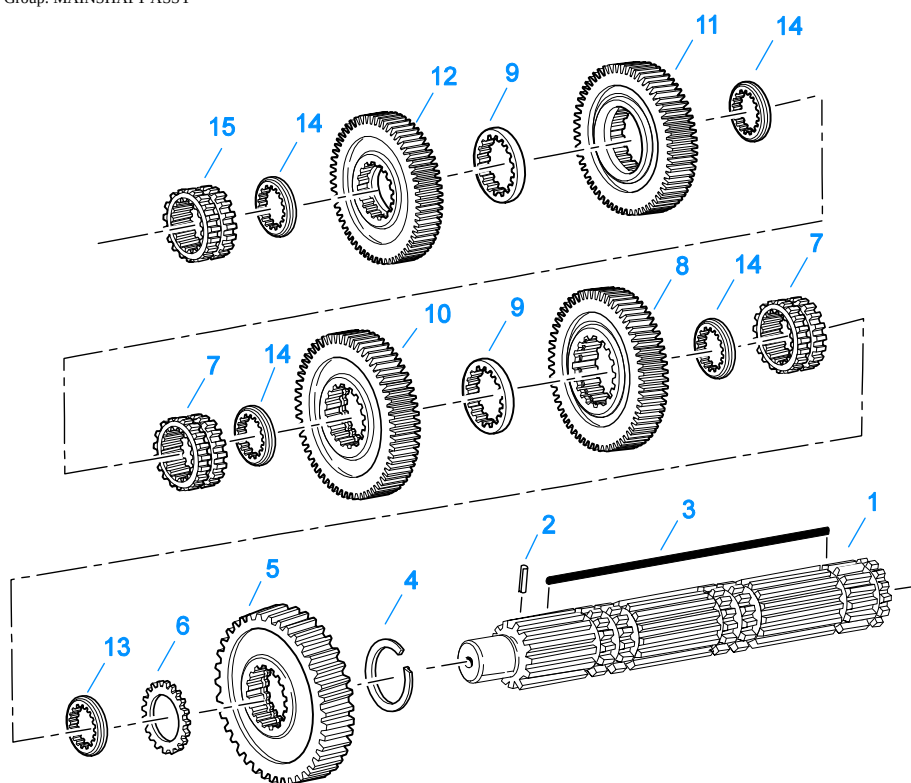
| Item | Current Part | Description            | Replaced Part                 | Qty. | Notes                                                                                         | Kits/Assys Where Needed |
|------|--------------|------------------------|-------------------------------|------|-----------------------------------------------------------------------------------------------|-------------------------|
|      | S-2990       | ASSEMBLY<br>PUSHBUTTON |                               | 1    | FOR USE WITH REMOTE LEVER                                                                     |                         |
|      | S-2995       | ASSEMBLY<br>CASE ASSY  | 4305765                       | 1    | FOR UNITS BUILT WITH THE<br>FORCED LUBRICATION SYSTEM<br>DESIGN                               |                         |
|      | S-2996       | CASE ASSY              | 4301355 ,4305766 ,S -<br>1989 | 1    |                                                                                               |                         |
|      | S-2998       | CASE ASSY              | 4302218 ,4305765 ,S -<br>2075 | 1    | FOR USE W/INTEGRAL PUMP ON<br>UNITS BUILT PRIOR TO THE<br>FORCED LUBRICATION SYSTEM<br>DESIGN |                         |



10421A-10-01

## MAINSHAFT & SYNCHRO(AUX)

| Item | Current Part | Description                | Replaced Part            | Qty. | Notes    | Kits/Assys Where Needed     |
|------|--------------|----------------------------|--------------------------|------|----------|-----------------------------|
| 1    | 14897        | SPRING                     |                          | 3    |          | K-3492,K-3494,K-3519,K-3522 |
| 2    | A-7331       | SYNCHRONIZER ASSY          | 4304396 4304397 A - 5917 | 1    | HI RANGE | K-3492,K-3494               |
| 3    | 20323        | SLIDING CLUTCH             |                          | 1    |          | K-3494                      |
| 4    | A-7254       | SYNCHRONIZER ASSEMBLY      | A - 4937 A - 5876        | 1    | LO RANGE | K-3492,K-3494               |
| 5    | 4302276      | AUXILIARY MAINSHAFT        |                          | 1    |          |                             |
| 7    | 22899        | WASHER                     |                          | 1    |          |                             |
| 8    | 4302092      | REDUCTION GEAR             | 23661                    | 1    |          |                             |
| 10   | 22898        | SPACER                     |                          | 1    |          |                             |
| 11   | 5556503-BOX  | BEARING                    | 5556503                  | 1    |          | K-3519,K-3522               |
| 12   | K-4122       | HEX FLANGE CRIMPED NUT KIT | 4302321,4306520          | 1    |          |                             |



10337B-10-96

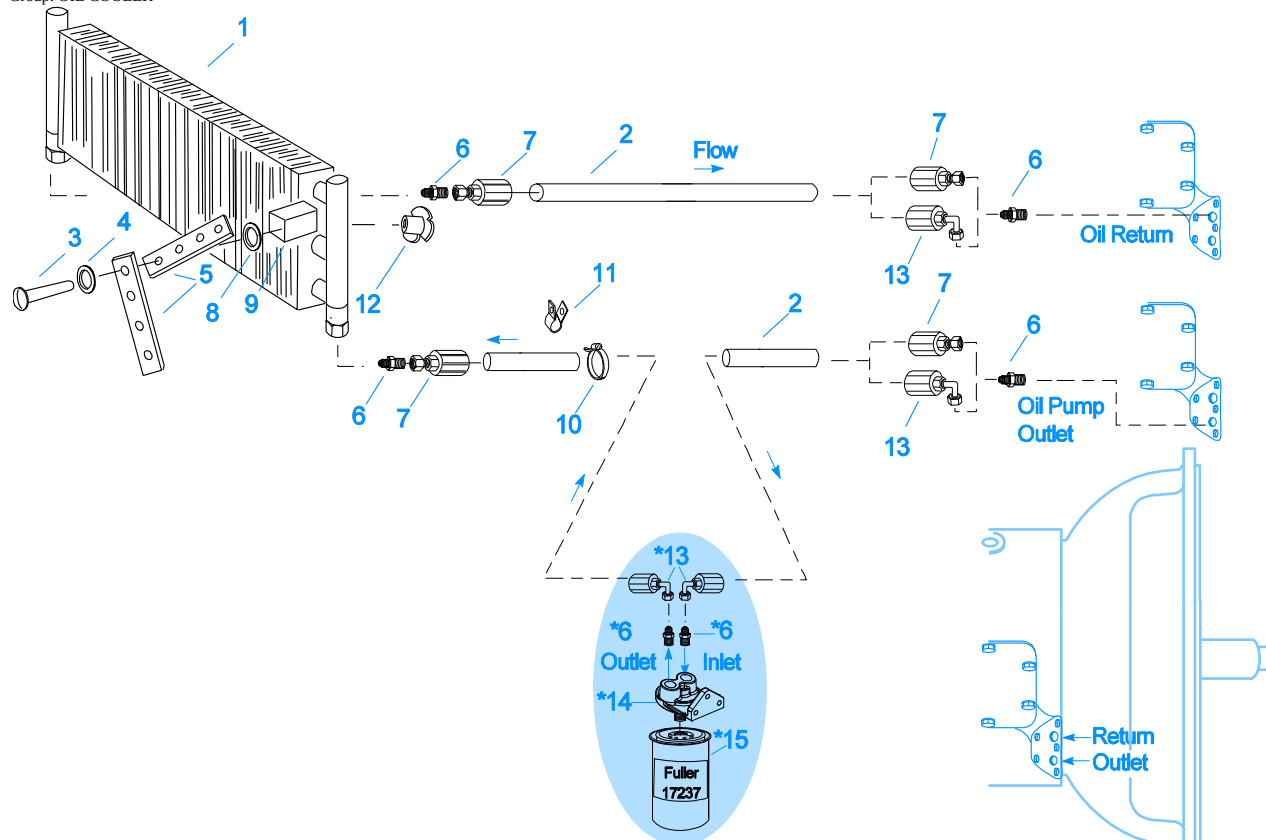
## MAINSHAFT ASSY

| Item | Current Part | Description            | Replaced Part    | Qty. | Notes | Kits/Assys Where Needed     |
|------|--------------|------------------------|------------------|------|-------|-----------------------------|
| 1    | S-2688       | MAINSHAFT ASSY         | 4303404 ,4303913 | 1    |       |                             |
| 2    | 62504        | ROLL PIN               |                  | 1    |       | S-2688                      |
| 3    | 4304614      | 3-SIDED KEY            | 4300890          | 1    |       |                             |
| 4    | 14750        | SNAP RING              |                  | 1    |       | K-2468,K-3519,K-3522,K-4125 |
| 5    | 23653        | REVERSE GEAR-MAINSHAFT |                  | 1    |       |                             |
| 6    | 14749        | SPACER                 |                  | 1    |       |                             |
| 7    | 4305997      | SLIDING CLUTCH         | 4301407          | 2    |       |                             |
| 8    | 4303620      | 1ST GEAR-MAINSHAFT     | 4303618          | 1    |       |                             |
| 9    | 4303603      | WASHER                 | 4302397          | 2    |       |                             |
| 10   | 4303477      | 2ND GEAR-MAINSHAFT     | 4303414          | 1    |       |                             |
| 11   | 4302384      | 3RD GEAR-MAINSHAFT     | 4302385          | 1    |       |                             |
| 12   | 4305051      | OD GEAR-MAINSHAFT      |                  | 1    |       |                             |
| 13   | 4300830      | WASHER .244-BLUE       |                  | 1    |       |                             |
| 14   | 4302398      | WASHER                 |                  | 4    |       |                             |
| 15   | 4305996      | SLIDING CLUTCH         | 691922           | 1    |       | K-3519                      |

## MISCELLANEOUS

| Item | Current Part | Description         | Replaced Part | Qty. | Notes                            | Kits/Assys Where Needed |
|------|--------------|---------------------|---------------|------|----------------------------------|-------------------------|
|      | 5586260      | SHIFT DIAGRAM LABEL |               | 1    |                                  | S-2989                  |
|      | 71203        | SILICONE LUBE       |               | 1    | 8 OZ (236.59 CC)-FLEET SIZE      |                         |
|      | 71204        | ADHESIVE SEALANT    |               | 1    | 0.5 CC (SINGLE APPLICATION SIZE) |                         |
|      | 71205        | SEALANT             |               | 1    | 2 CC (SINGLE APPLICATION SIZE)   | K-3519                  |
|      | 71206        | SILICONE LUBE       |               | 1    | 4 CC (SINGLE APPLICATION SIZE)   | K-3484                  |

Group: OIL COOLER



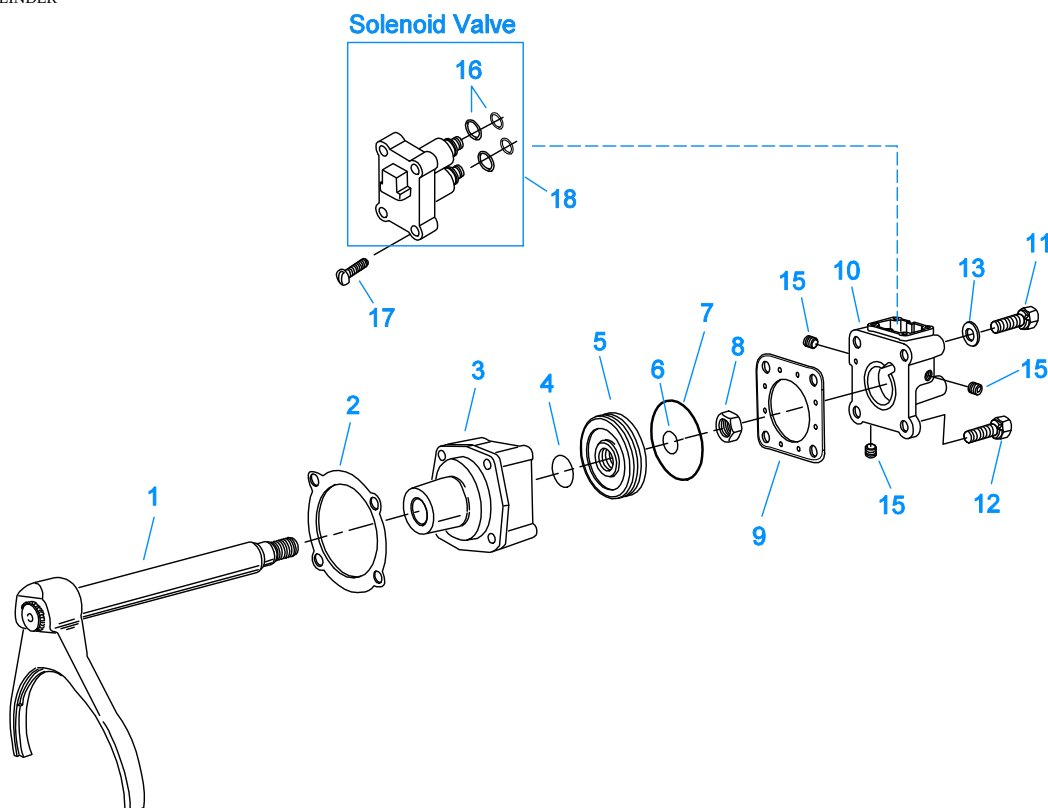
10525-4/92 Cooler

\*Adding Oil Filter and parts as shown is optional.

Return / Outlet Location

## OIL COOLER

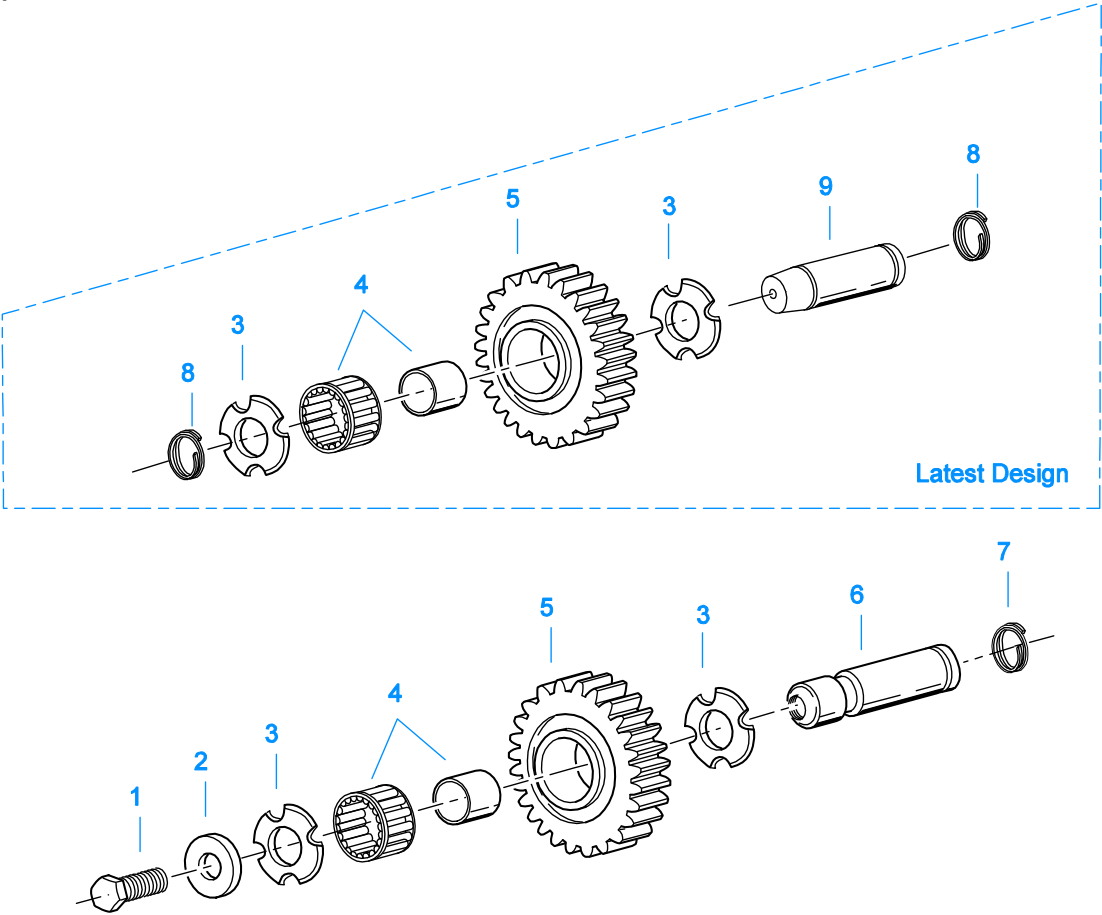
| Item | Current Part | Description       | Replaced Part | Qty. | Notes           | Kits/Assys Where Needed |
|------|--------------|-------------------|---------------|------|-----------------|-------------------------|
| 1    | 18025        | OIL COOLER        |               | 1    |                 | K-1956                  |
| 2    | 19424        | HOSE              |               | 1    | 25 FEET         | K-1956                  |
| 3    | X-8-535      | CAPSCREW          |               | 2    | 5/16"-16X2-1/2" |                         |
| 4    | X-3-506      | LOCKWASHER        |               | 2    | 5/16"           |                         |
| 5    | 18211        | BRACKET           |               | 4    |                 | K-1956                  |
| 6    | 19419        | CONNECTOR         |               | 6    |                 | K-1956,S-1404           |
| 7    | 19415        | SWIVEL            |               | 4    |                 | K-1956                  |
| 8    | X-10-501     | WASHER            |               | 2    | 5/16"           |                         |
| 9    | 18209        | PLUG-RUBBER MOUNT |               | 2    |                 | K-1956                  |
| 10   | 17190        | STRAP             |               | 8    |                 | K-1956                  |
| 11   | 19423        | CLAMP             |               | 5    |                 | K-1956                  |
| 12   | 18210        | NUT               |               | 2    |                 | K-1956                  |
| 13   | 19422        | ELBOW             |               | 4    |                 | K-1956                  |
| 14   | S-1404       | OIL FILTER        | 17238         | 1    |                 |                         |
| 15   | 17237        | FILTER ELEMENT    |               | 1    |                 | S-1404                  |



20539-03-01

## RANGE CYLINDER

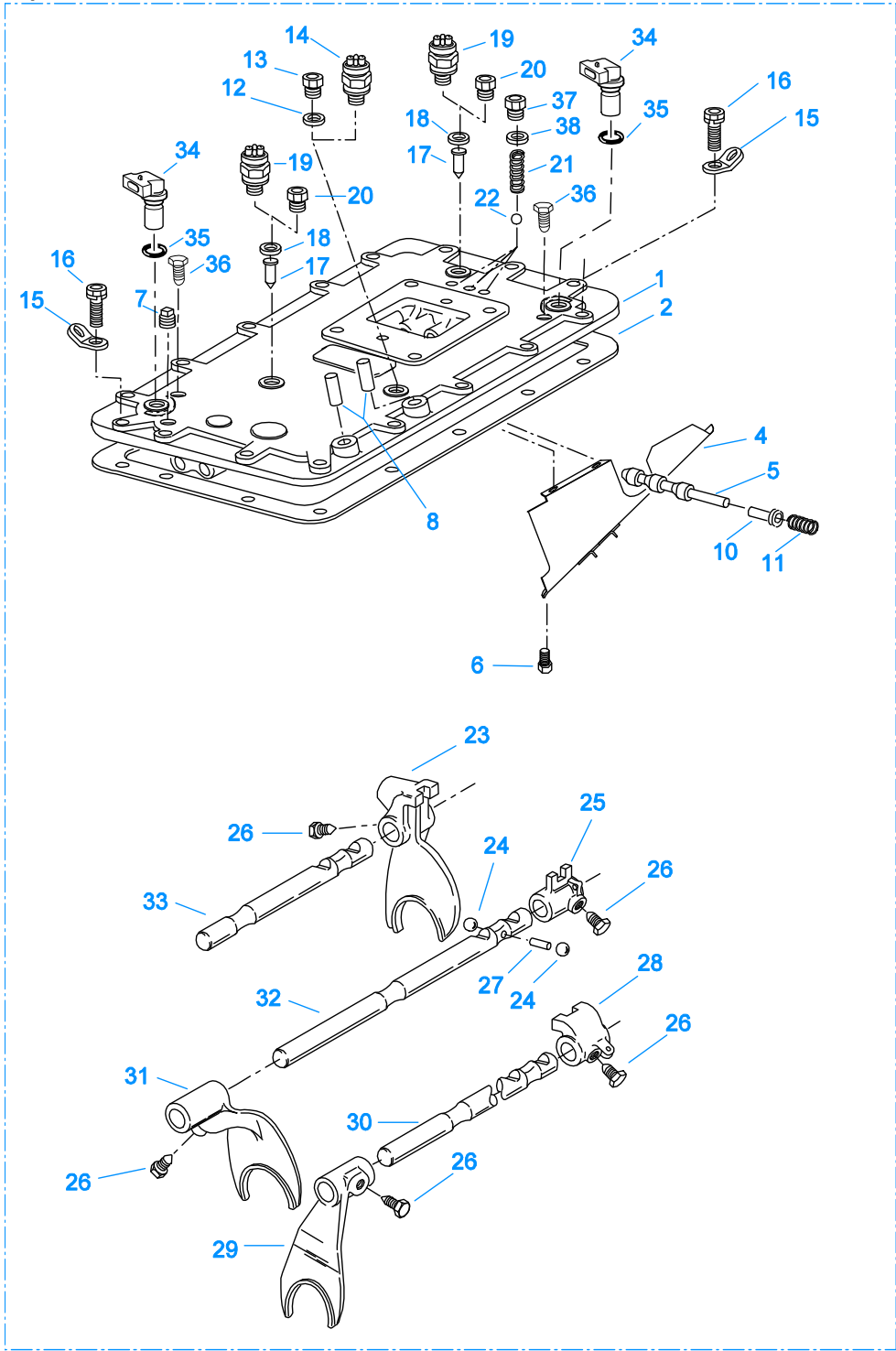
| Item | Current Part | Description              | Replaced Part              | Qty. | Notes              | Kits/Assys Where Needed |
|------|--------------|--------------------------|----------------------------|------|--------------------|-------------------------|
| 1    | A-5474       | SHIFT YOKE ASSY          |                            | 1    |                    |                         |
| 2    | 14347        | GASKET                   |                            | 1    |                    | K-3484,K-3518           |
| 3    | 691348       | RANGE CYLINDER           |                            | 1    |                    |                         |
| 4    | 14765        | -O- RING                 |                            | 1    |                    | K-3484                  |
| 5    | 14341        | PISTON                   | 23353                      | 1    |                    |                         |
| 6    | 14345        | -O- RING                 |                            | 1    |                    | K-3484                  |
| 7    | 14344        | -O- RING                 |                            | 1    |                    | K-3484                  |
| 8    | X-1-1010     | NUT                      |                            | 1    | 5/8"-18            |                         |
| 9    | 691955       | GASKET                   | 691440                     | 1    |                    | K-3365,K-3484,K-3518    |
| 10   | K-3365       | RANGE CYL COVER KIT      | 691442                     | 1    |                    |                         |
| 11   | X-8-647      | CAPSCREW                 |                            | 2    | 3/8"-16X4-3/4"     |                         |
| 12   | X-8L-605     | CAPSCREW                 |                            | 2    | 3/8"-16X3"         |                         |
| 13   | X-3-600      | LOCKWASHER               |                            | 2    | 3/8"               |                         |
| 15   | X-12-208     | PIPE PLUG                |                            | 3    | 1/8" NPT           |                         |
| 16   | K-2908       | -O- RING KIT             |                            | 1    | FOR SOLENOID VALVE |                         |
| 17   | X-8-264      | HEX FLANGE HEAD SCREW    | X 8 259                    | 4    | #10-24 X 1 1/4     |                         |
| 18   | K-3682       | RANGE/SPLITTER VALVE KIT | 5561801 ,5561804 ,K - 2907 | 1    |                    |                         |



11382-3-97 RI

REVERSE IDLER

| Item | Current Part | Description          | Replaced Part           | Qty. | Notes         | Kits/Assys Where Needed     |
|------|--------------|----------------------|-------------------------|------|---------------|-----------------------------|
| 1    | X-7-1008     | CAPSCREW             |                         | 2    | 5/8"-18X1-1/4 |                             |
| 2    | 14283        | WASHER               |                         | 2    |               |                             |
| 3    | 4302982      | WASHER               | 14282                   | 4    |               | K-3209,S-2995,S-2996,S-2998 |
| 4    | 14287        | BEARING              | 4305020                 | 2    |               | K-3519,K-3522               |
| 5    | 16757        | REVERSE IDLER GEAR   | 22409                   | 2    |               |                             |
| 6    | K-3209       | IDLER SHAFT REPL KIT | 16405 ,4302981 ,4305513 | 2    |               |                             |
| 7    | 4303336      | RETAINING RING       |                         | 2    |               | K-3209                      |
| 8    | 4303336      | RETAINING RING       |                         | 4    |               | K-3209                      |
| 9    | 4305513      | IDLER SHAFT          |                         | 2    |               | K-3209                      |

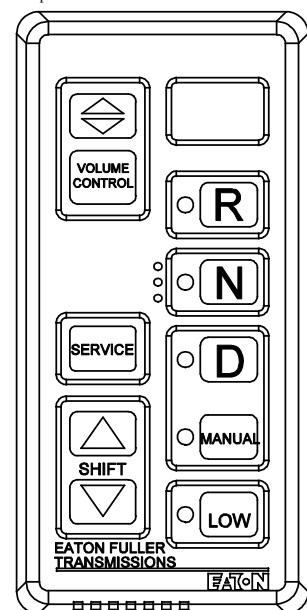
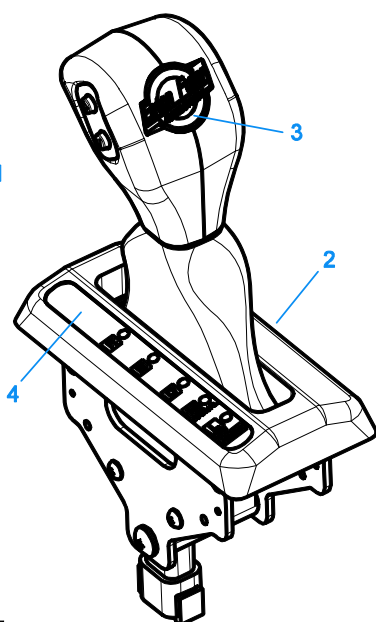
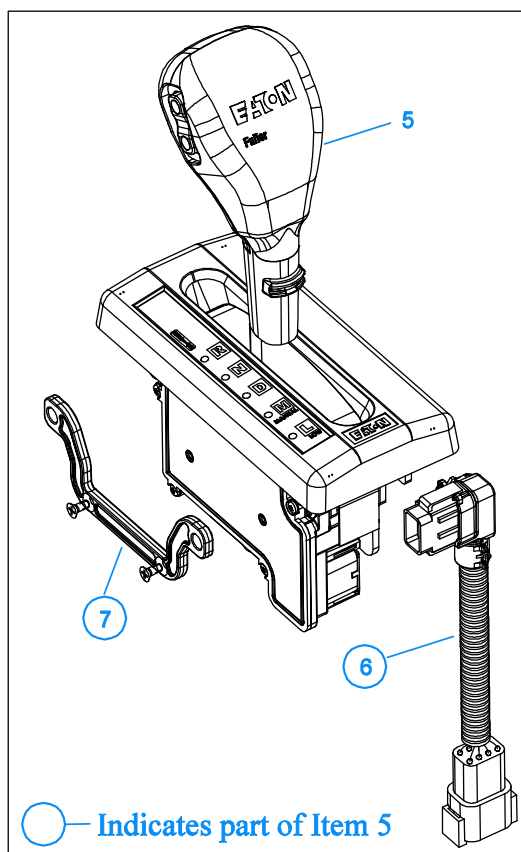


20235-03-01

SHIFT BAR HOUSING

| Item | Current Part | Description            | Replaced Part | Qty. | Notes                                                  | Kits/Assys Where Needed     |
|------|--------------|------------------------|---------------|------|--------------------------------------------------------|-----------------------------|
| 1    | S-2915       | SHIFT BAR HOUSING ASSY | 691532        | 1    | HOUSING ONLY (DOES NOT INCLUDE SPEED SENSORS)          |                             |
| 2    | 4302676      | GASKET                 | 14918         | 1    |                                                        | K-3518,S-2905,S-2915,S-2927 |
| 4    | 20070        | OIL TROUGH             |               | 1    | WILL CAUSE INTERFERENCE ON UNITS BUILT WITH THE FORCED | S-2905                      |

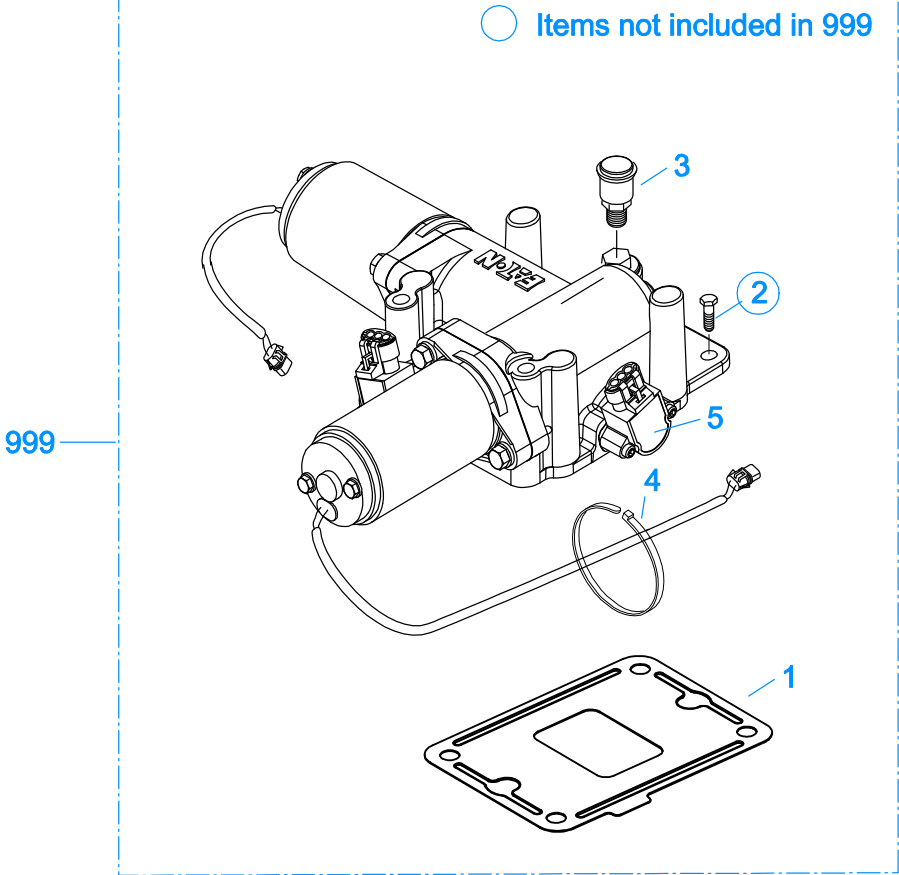
| Item | Current Part | Description            | Replaced Part      | Qty. | Notes                                                                    | Kits/Assys Where Needed |
|------|--------------|------------------------|--------------------|------|--------------------------------------------------------------------------|-------------------------|
| 5    | 20332        | AIR VALVE SHAFT        | 17177              | 1    | LUBRICATION SYSTEM.                                                      | S-2905,S-2927           |
| 6    | X-8-423      | CAPSCREW               |                    | 2    | NOT TO BE USED ON UNITS BUILT WITH THE FORCED LUBRICATION SYSTEM.        |                         |
| 7    | X-12-603     | PIPE PLUG              | X12 602            | 1    | 3/8" NPT                                                                 | S-2905,S-2927           |
| 8    | 4301378      | DOWEL PIN              |                    | 2    |                                                                          |                         |
| 10   | 21966        | PLUNGER                |                    | 1    |                                                                          |                         |
| 11   | 4301372      | SPRING                 |                    | 1    |                                                                          |                         |
| 12   | 17179        | GASKET                 |                    | 1    |                                                                          | S-2905,S-2915,S-2927    |
| 13   | 4303655      | PLUG                   | 17178              | 1    |                                                                          | S-2905,S-2915,S-2927    |
| 14   | 22941        | NEUTRAL LIGHT SWITCH   | 12639              | 1    | SWITCH NORMALLY CLOSED                                                   |                         |
| 15   | 20815        | LIFTING EYE            | 17105              | 2    |                                                                          | S-2956                  |
| 16   | X-8L-602     | CAPSCREW               |                    | 2    | 3/8"-16X1-1/2"                                                           |                         |
| 16   | X-8L-604     | CAPSCREW               |                    | 16   | 3/8"-16X1-1/4"- OR USE 14 PCS OF X-8L-604 WITH 2 PCS OF X-8L-602         |                         |
| 17   | 15899        | PIN                    |                    | 2    |                                                                          |                         |
| 18   | 15900        | GASKET                 |                    | 2    |                                                                          | S-2905,S-2915,S-2927    |
| 19   | 22940        | REVERSE LIGHT SWITCH   | 16830              | 1    | SWITCH NORMALLY OPEN                                                     |                         |
| 20   | 4303656      | PLUG                   | 15917              | 2    |                                                                          | S-2905,S-2915,S-2927    |
| 21   | 691661       | COMPRESSION SPRING     |                    | 3    |                                                                          | S-2905,S-2927           |
| 22   | X-14-800     | STEEL BALL             |                    | 3    | 1/2"                                                                     |                         |
| 23   | 691712       | SHIFT YOKE             | 4301376            | 1    | REVERSE/1ST                                                              | S-2905,S-2927           |
| 24   | X-14-1200    | STEEL BALL             |                    | 2    | 3/4"                                                                     |                         |
| 25   | 14658        | SHIFT BLOCK            |                    | 1    | 2ND/3RD                                                                  | S-2905,S-2927           |
| 26   | 3220         | LOCKSCREW              |                    | 5    |                                                                          | S-2905,S-2927           |
| 27   | 1634         | INTERLOCK PIN          |                    | 1    |                                                                          | S-2905,S-2927           |
| 28   | 14659        | SHIFT BLOCK            |                    | 1    | 4TH/5TH                                                                  | S-2905,S-2927           |
| 29   | 691601       | SHIFT YOKE             | 4302212            | 1    | 4TH/5TH                                                                  | S-2905,S-2927           |
| 30   | 4301366      | YOKE BAR               |                    | 1    | 4TH/5TH                                                                  | S-2905,S-2927           |
| 31   | 691600       | SHIFT YOKE             | 4302994            | 1    | 2ND/3RD                                                                  | S-2905,S-2927           |
| 32   | 4301365      | YOKE BAR               |                    | 1    | 2ND/3RD                                                                  | S-2905,S-2927           |
| 33   | 4301364      | YOKE BAR               |                    | 1    | REVERSE/1ST                                                              | S-2905,S-2927           |
| 34   | K-3231       | SPEED SENSOR KIT       | A - 6398 ,A - 6724 | 2    | SINGLE PICK-UP (2 PIN)                                                   |                         |
| 35   | 14142        | -O- RING               |                    | 2    |                                                                          | S-2905,S-2927           |
| 36   | X-8C-409     | CAPSCREW               |                    | 2    | 1/4"-20X5/8"                                                             |                         |
| 37   | 4303656      | PLUG                   | 15917              | 3    |                                                                          | S-2905,S-2915,S-2927    |
| 38   | 15900        | GASKET                 |                    | 3    |                                                                          | S-2905,S-2915,S-2927    |
| 999  | S-2905       | SHIFT BAR HOUSING ASSY | 691532             | 1    | COMPLETE - FOR UNITS BUILT PRIOR TO THE FORCED LUBRICATION SYSTEM DESIGN |                         |
| 999  | S-2927       | SHIFT BAR HOUSING ASSY | 691532             | 1    | COMPLETE - FOR UNITS BUILT WITH THE FORCED LUBRICATION SYSTEM DESIGN     |                         |

**PUSHBUTTON ASSEMBLY****COBRA LEVER - only for use with 10MY559M Mack Swing Arm Bracket****COBRA LEVER - Latest Design - for all applications with the exception of units using the 10MY559M Mack Swing Arm Bracket (see illustration to the left)**

10209-06-09

**SHIFT CONTROLS**

| Item | Current Part | Description                                  | Replaced Part  | Qty. | Notes                                                                                                             | Kits/Assys Where Needed |
|------|--------------|----------------------------------------------|----------------|------|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1    | S-2989       | PUSHBUTTON ASSEMBLY                          | S - 2985       | 1    |                                                                                                                   |                         |
| 1    | S-2990       | PUSHBUTTON ASSEMBLY                          |                | 1    | FOR USE WITH REMOTE LEVER                                                                                         |                         |
| 2    | K-3997       | COBRA SHIFT LEVER KIT (RHO) W/MACK SWING ARM | 4305447,K-3680 | 1    | (LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION - FOR UNITS USING THE MACK 10MY559M SWING ARM BRACKET |                         |
| 3    | 5505111      | SHIFT LEVER KNOB DECAL                       |                | 1    |                                                                                                                   |                         |
| 4    | 5505110      | SHIFT LEVER POSITION STRIP                   |                | 1    |                                                                                                                   |                         |
| 5    | K-3980       | COBRA SHIFT LEVER KIT (RHO)                  | K-3680         | 1    | (LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION                                                       |                         |
| 6    | A-7982       | JUMPER HARNESS ASSY                          |                | 1    |                                                                                                                   |                         |
| 7    | K-3979       | SPACER KIT                                   |                | 1    | INCLUDES (4) SPACER MOUNTING SCREWS                                                                               |                         |



6 XY Shifter Repair Kit

20229-03-01

X-Y SHIFTER MODULE

| Item | Current Part | Description           | Replaced Part    | Qty. | Notes    | Kits/Assys Where Needed |
|------|--------------|-----------------------|------------------|------|----------|-------------------------|
| 1    | 4305452      | GASKET                | 4301958          | 1    |          | K-3436,K-4009           |
| 2    | X-8C-615     | CAPSCREW              |                  | 4    |          |                         |
| 3    | 4304602      | BREATHER              | 23605            | 1    | 1/4" NPT |                         |
| 4    | 5559348      | TY-RAP                |                  | 2    |          | K-3682,K-4118           |
| 5    | K-3438       | POSITION SENSOR KIT   | 691551 ,691926   | 2    |          |                         |
| 6    | K-4009       | XY SHIFTER REPAIR KIT |                  | 1    |          |                         |
| 999  | K-3436       | XY SHIFTER KIT        | 691381 ,A - 7034 | 1    |          |                         |

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