



**Roadranger®**

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# Illustrated Parts List

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**RTO-10910B-DM2**  
**July 2011**

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Pro Gear & Transmission, Inc.



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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).

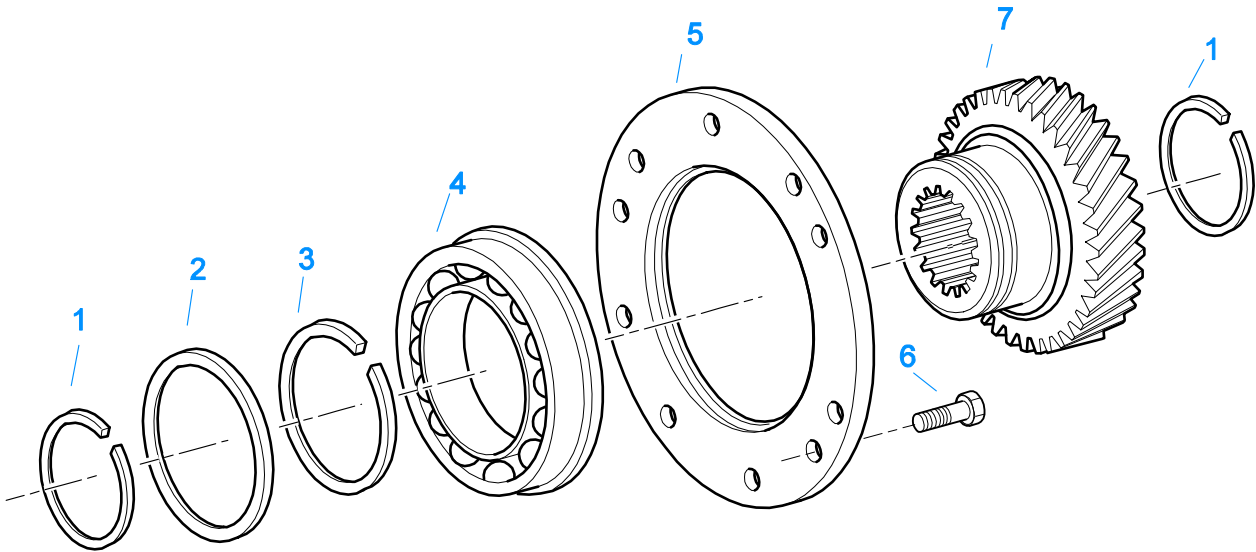
### Illustrations

- 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

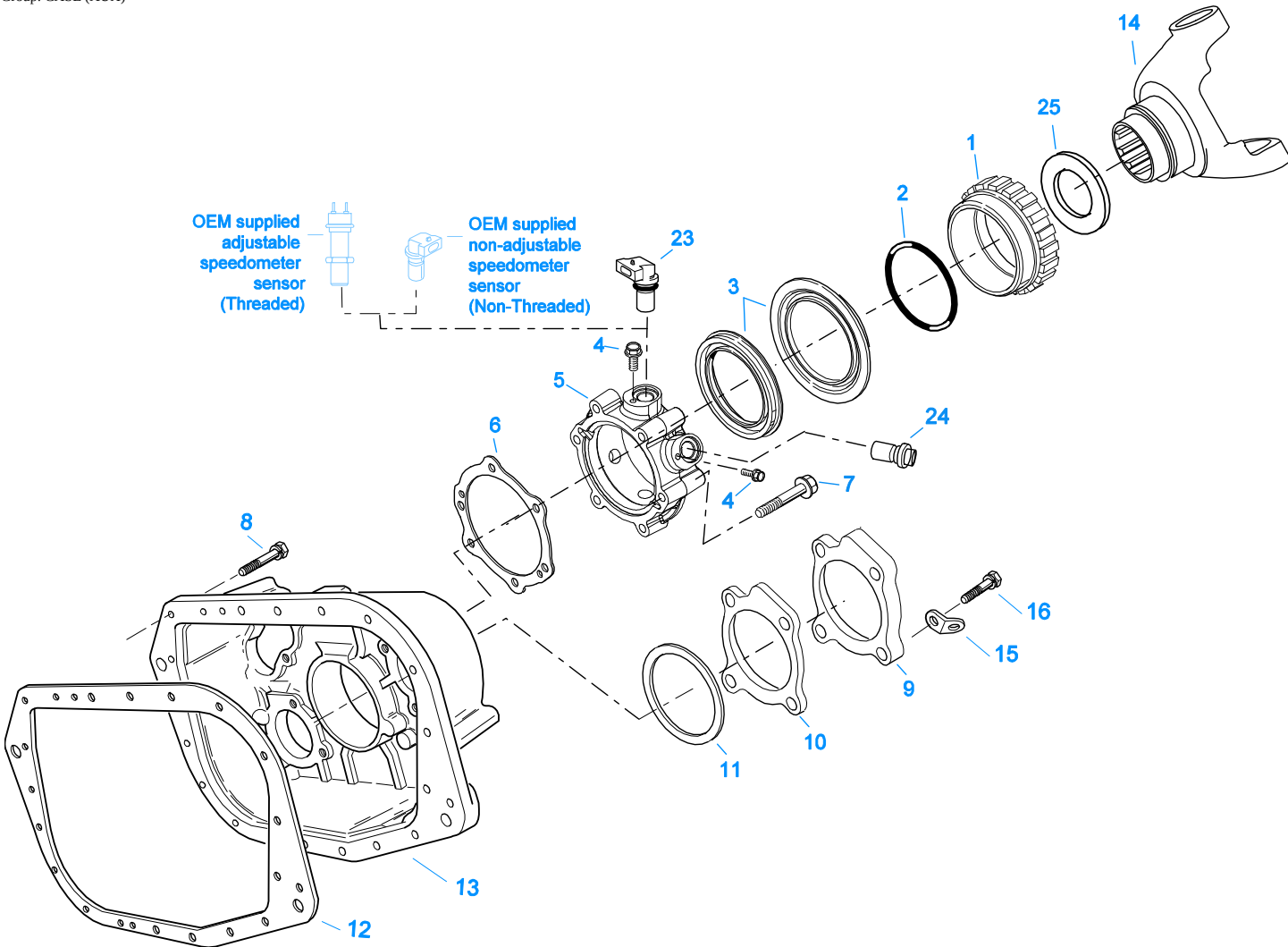
- **Item Number** - corresponding with numbers on illustrations for part identification.
- **Current Part** - identifies part as it is available for service.
- **Description** - specifies part name or description.
- **Replaced Part** - quantity quantity required for assembly.
- **Quantity** - defines 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    |            |                         |

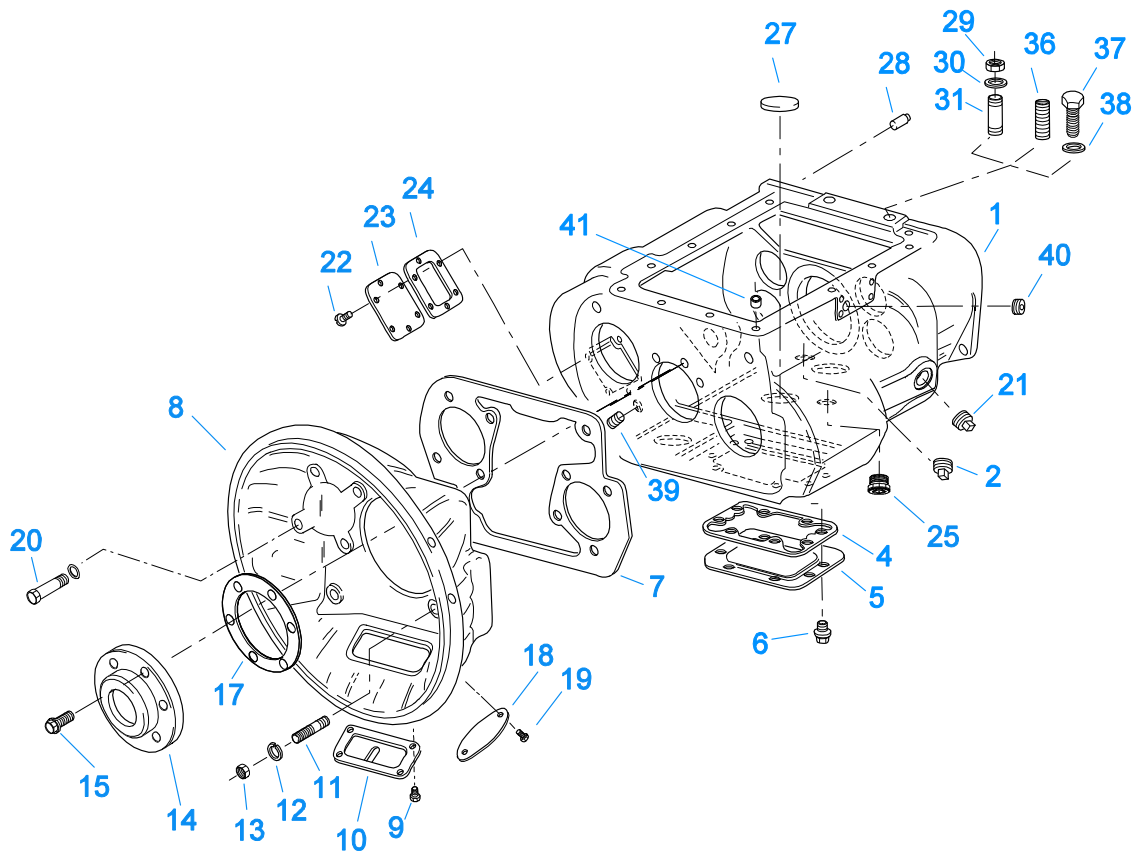


11406B-03-03

CASE (AUX)

| 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     |                             |

| Item | Current Part | Description                 | Replaced Part            | Qty. | Notes                                                                                                    | Kits/Assys Where Needed |
|------|--------------|-----------------------------|--------------------------|------|----------------------------------------------------------------------------------------------------------|-------------------------|
| 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 INTERCHANGABLE 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    |                                                                                                          |                         |
| 14   | 5505543      | YOKE-1710 HALF ROUND        |                          | 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                  |

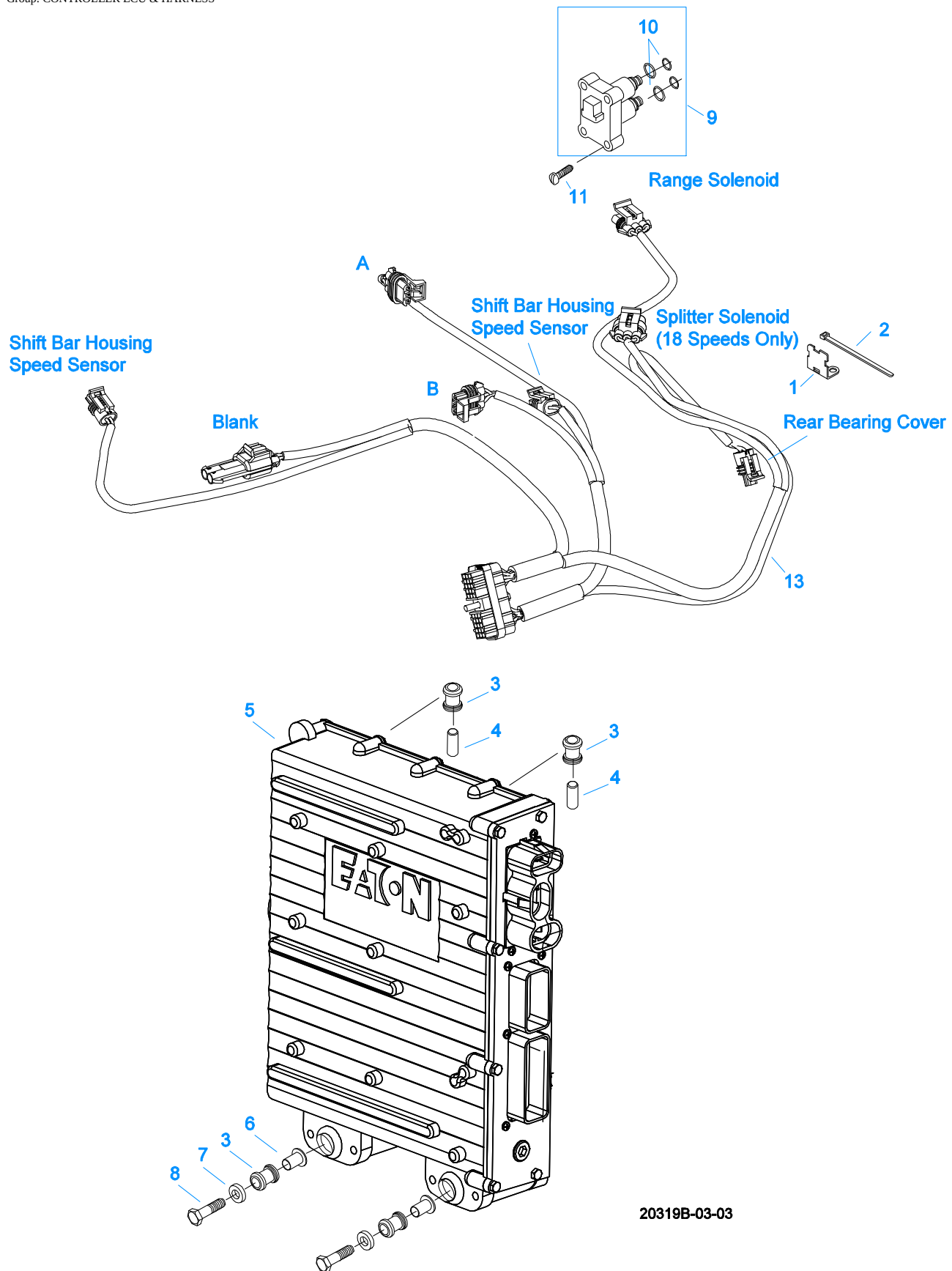


10305F-10-04

**CASE (FRONT)**

| Item | Current Part | Description                | Replaced Part                | Qty. | Notes                                                   | Kits/Assys Where Needed |
|------|--------------|----------------------------|------------------------------|------|---------------------------------------------------------|-------------------------|
| 1    | S-2996       | CASE ASSY                  | 4301355 ,4305766 ,S - 1989   | 1    |                                                         |                         |
| 2    | 4304023      | PLUG                       | 4303747                      | 1    | 1-1/16" MAGNETIC, O-RING INCLUDED USE WITH 4305766 CASE | S-2996                  |
| 2    | X-12-1207    | PIPE PLUG                  | X12 1202 ,X12 1206           | 1    | 3/4" MAGNETIC - USE WITH 4301355 CASE                   |                         |
| 4    | 4305310      | GASKET                     | 4302810                      | 1    |                                                         | K-3518,K-3637,K-3644    |
| 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                  |
| 8    | 4305059      | CLUTCH HOUSING             |                              | 1    |                                                         |                         |
| 9    | X-8-1200M    | CAPSCREW                   |                              | 4    | M12 X 1.75 X 20MM                                       |                         |
| 10   | K-3643       | CLUTCH HOUSING COVER KIT   | 691954                       | 1    |                                                         |                         |
| 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 BRG COVER            |                              | 1    | 2" PULL                                                 |                         |
| 15   | X-8L-604     | CAPSCREW                   |                              | 6    | 3/8"-16X1-1/4"                                          |                         |
| 17   | 14311        | GASKET                     |                              | 1    |                                                         | K-3518                  |
| 18   | 4303692      | HAND HOLE COVER            |                              | 1    |                                                         |                         |
| 19   | X-8-423      | CAPSCREW                   |                              | 2    | 1/4"-20X1/2"                                            |                         |
| 20   | X-8C-830     | HEX HEAD SCREW/WASHER ASSY | X-8C-826                     | 4    | .500-13 X 1.490, FOR ALUMINUM HOUSING                   |                         |
| 21   | 4304023      | PLUG                       | 4303747                      | 1    | 1-1/16" MAGNETIC, O-RING INCLUDED                       | S-2996                  |
| 22   | X-8-686      | CAPSCREW                   |                              | 6    | 3/8"-16X3/4"                                            |                         |
| 23   | 14575        | PTO COVER                  | 4302254                      | 1    |                                                         |                         |
| 24   | 4305309      | GASKET                     | 1684                         | 1    |                                                         | K-3518,K-3637,K-        |

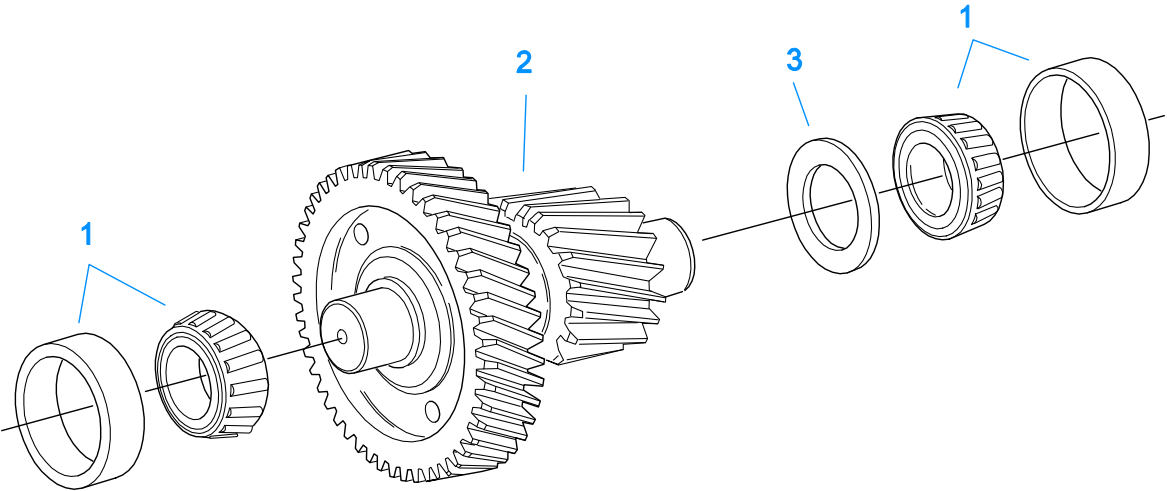
| Item | Current Part | Description   | Replaced Part                   | Qty. | Notes                     | Kits/Assys Where Needed |
|------|--------------|---------------|---------------------------------|------|---------------------------|-------------------------|
| 25   | 4305740      | HEX HEAD PLUG |                                 | 1    | FOR USE WITH 4305766 CASE | 3644,K-3683             |
| 27   | 14373        | MAGNET        |                                 | 3    |                           | S-2996                  |
| 28   | 18128        | PIN           |                                 | 2    |                           | S-2996                  |
| 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   | X-12-1207    | PIPE PLUG     | X12 1202 ,X12 1206              | 1    | 3/4" MAGNETIC             |                         |
| 41   | 691447       | PIN           |                                 | 1    |                           | S-2996                  |



20319B-03-03

## CONTROLLER ECU & HARNESS

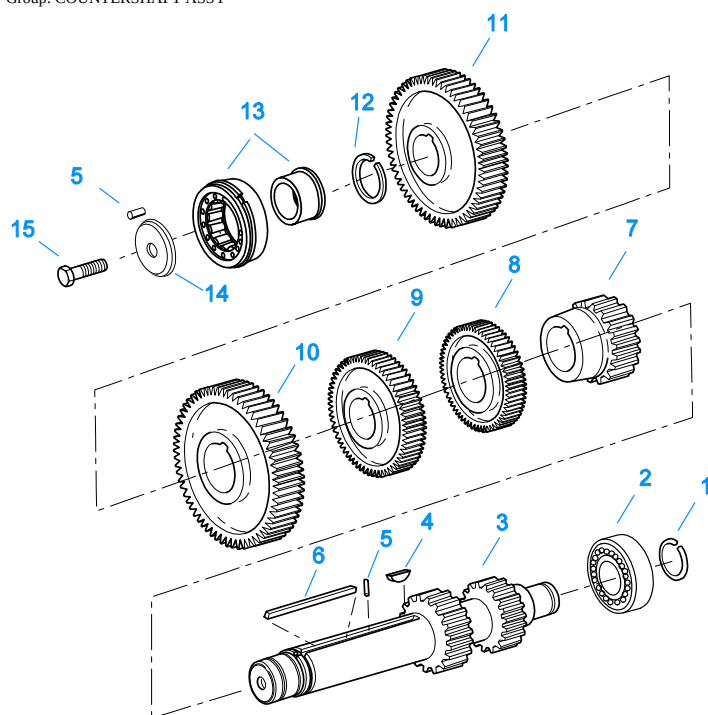
| Item | Current Part | Description                                | Replaced Part              | Qty. | Notes              | Kits/Assys Where Needed |
|------|--------------|--------------------------------------------|----------------------------|------|--------------------|-------------------------|
| 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                  |
| 5    | K-3639RX     | REMAN EXCHANGE TRANSMISSION CONTROLLER KIT | K-3639, K-3639R            | 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     |                         |
| 13   | K-4118       | TRANSMISSION HARNESS KIT                   | 691664,K-3527              | 1    |                    |                         |



10440-1/92 Aux CS Helical

COUNTERSHAFT & BRGS (AUX)

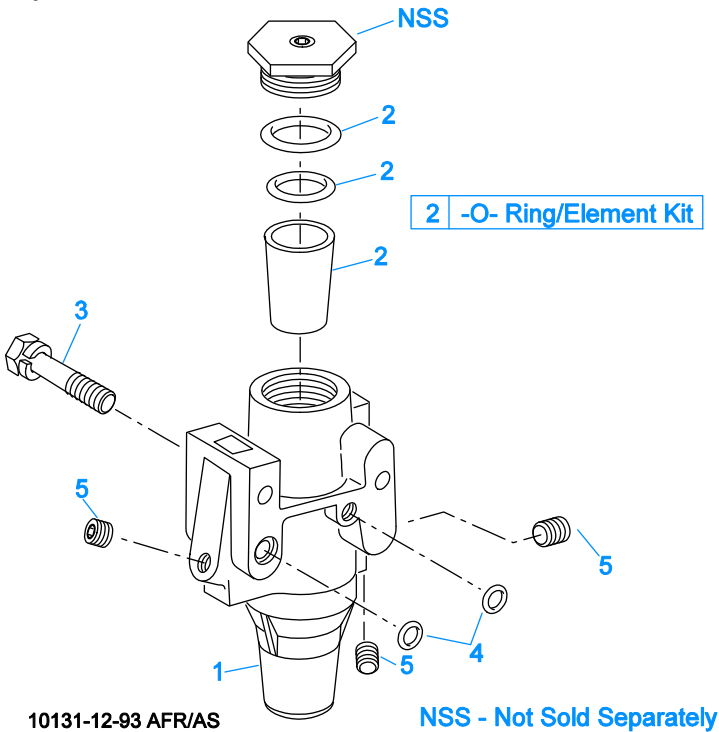
| Item | Current Part | Description              | Replaced Part | Qty. | Notes                   | Kits/Assys Where Needed |
|------|--------------|--------------------------|---------------|------|-------------------------|-------------------------|
| 1    | 4302074-BOX  | BEARING                  | 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

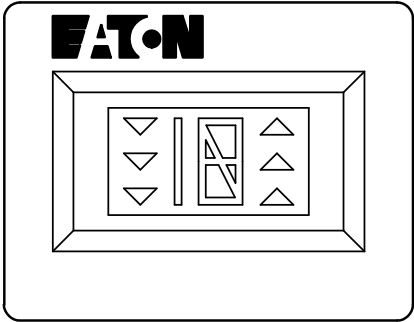
| Item | Current Part | Description          | Replaced Part                         | Qty. | Notes                       | Kits/Assys Where Needed |
|------|--------------|----------------------|---------------------------------------|------|-----------------------------|-------------------------|
| 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    | 4306076      | 2ND GEAR-CNTRSHFT    | 19247,20471                           | 2    |                             |                         |
| 8    | 20482        | 3RD GEAR-CNTRSHFT    | 19615                                 | 2    |                             |                         |
| 9    | 4305661      | OD GEAR-CNTRSHFT     | 19631 ,19633 ,20481<br>,4302233,20459 | 2    |                             |                         |
| 10   | 15953        | PTO GEAR - LOWER     |                                       | 1    |                             |                         |
| 10   | 20840        | PTO GEAR - UPPER     | 15952                                 | 1    |                             |                         |
| 11   | 4305657      | DRIVE GEAR-CNTRSHFT  | 19240 ,19243 ,20392<br>,4302087,21020 | 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

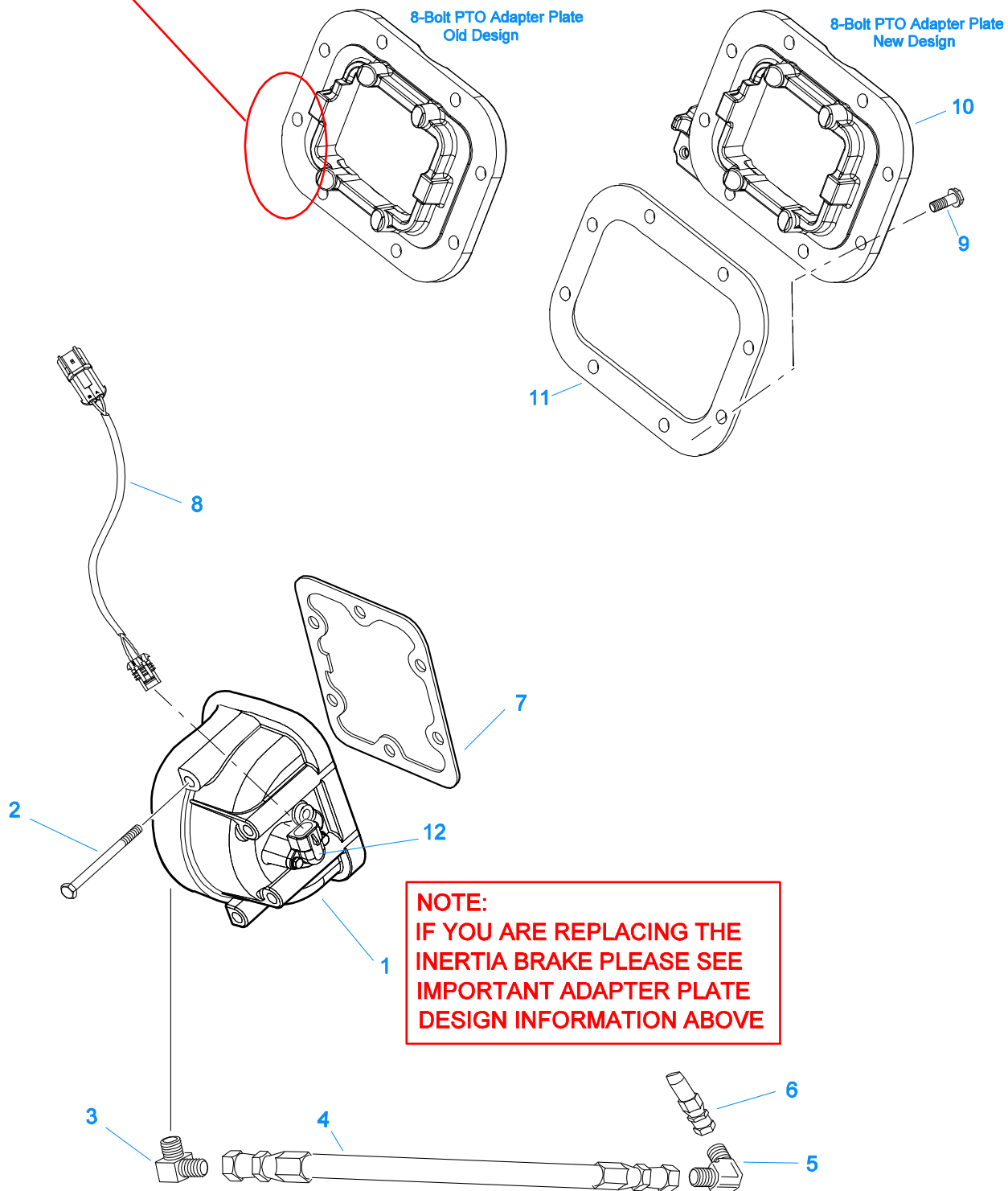


30317-03-01

GEAR DISPLAY MODULE

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

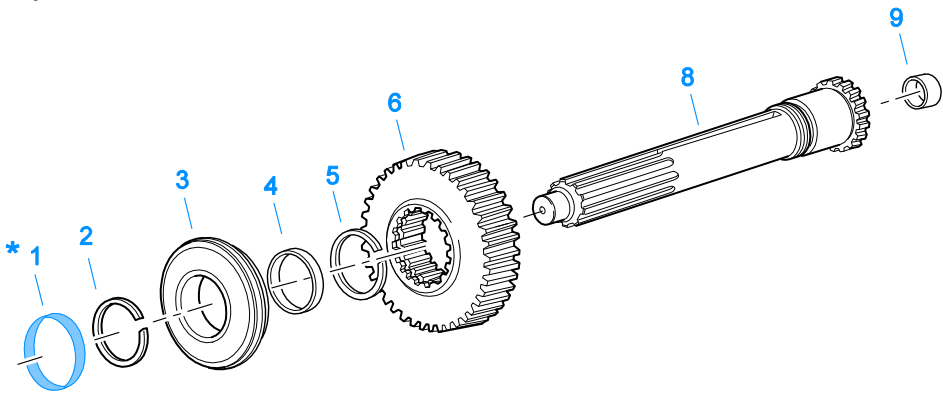
**NOTE:**  
IF YOU ARE REPLACING THE INERTIA  
BRAKE AND THE ADAPTER PLATE  
LOOKS LIKE THIS YOU WILL ALSO  
NEED TO ORDER ITEM #10



20427-03-03

## INERTIA BRAKE

| Item | Current Part | Description                      | Replaced Part    | Qty. | Notes                                                               | Kits/Assys Where Needed     |
|------|--------------|----------------------------------|------------------|------|---------------------------------------------------------------------|-----------------------------|
| 1    | K-3637       | INERTIA BRAKE KIT                | A - 7452         | 1    | PLEASE SEE IMPORTANT SERVICE INFORMATION INDICATED ON ILLUSTRATION. |                             |
| 2    | X-8-6116     | HEX FLANGE HEAD SCREW            |                  | 6    | 3/8"-16X4.25                                                        |                             |
| 3    | 691603       | CONN 3/8 PIPE TO3/4 16           |                  | 1    |                                                                     |                             |
| 4    | 5588208      | OIL HOSE ASSEMBLY                |                  | 1    | FOR USE WITH 4301355 CASE                                           |                             |
| 4    | 5588210      | OIL HOSE ASSEMBLY                |                  | 1    | FOR USE WITH 4305766 CASE                                           |                             |
| 5    | 691651       | ELBOW, 90 DEG MALE               |                  | 1    |                                                                     |                             |
| 6    | 4305714      | FILTER FITTING                   |                  | 1    | FOR USE WITH 4305766 CASE                                           |                             |
| 6    | 691517       | FILTER FITTING                   |                  | 1    | FOR USE WITH 4301355 CASE                                           |                             |
| 7    | 4305309      | GASKET                           | 1684             | 1    |                                                                     | K-3518,K-3637,K-3644,K-3683 |
| 8    | K-3758       | INERTIA BRAKE JUMPER HARNESS KIT | 691703           | 1    |                                                                     |                             |
| 9    | X-8C-722     | CAPSCREW                         |                  | 8    | 7/16-14X1-1/4                                                       |                             |
| 10   | K-3644       | INERTIA BRK ADPT PLT KIT         | 4305450 ,4305732 | 1    |                                                                     |                             |
| 11   | 4305310      | GASKET                           | 4302810          | 1    |                                                                     | K-3518,K-3637,K-3644        |
| 12   | K-3638       | I-BRAKE CONNECTOR KIT            | 691499           | 1    |                                                                     |                             |



\* For Shipping Only -- Do Not Replace

\*

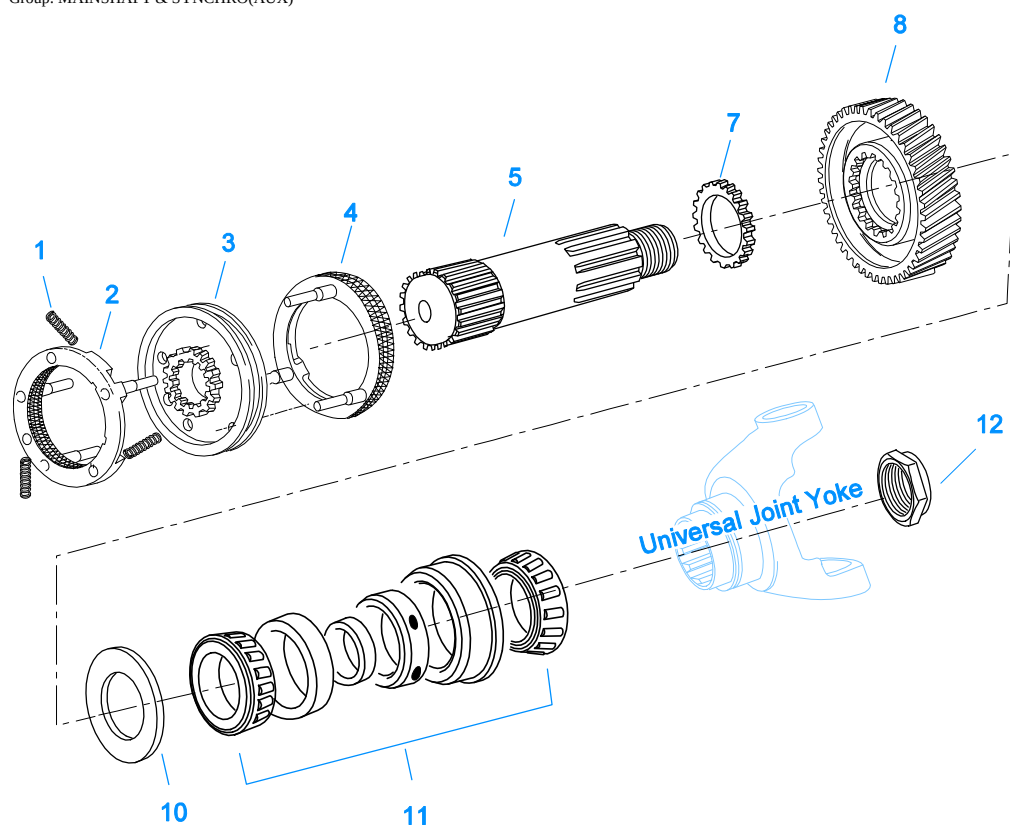
10370-1/92 IS

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-3519                  |
| 3    | 81504        | BEARING         |                      | 1    |                      | K-3519,K-3522           |
| 4    | 16463        | SPACER          |                      | 1    |                      |                         |
| 5    | 14750        | SNAP RING       |                      | 1    |                      | K-3519,K-3522           |
| 6    | 4305659      | MAIN DRIVE GEAR | 22030 ,4302086,22028 | 1    |                      |                         |
| 8    | S-1659       | INPUT SHAFT     | 20535 23566 ,4302661 | 1    | USE W/FBC 20550      | K-3519                  |
| 9    | 16566        | BUSHING         |                      | 1    |                      | K-3522,S-1659           |

## KITS & ASSEMBLIES

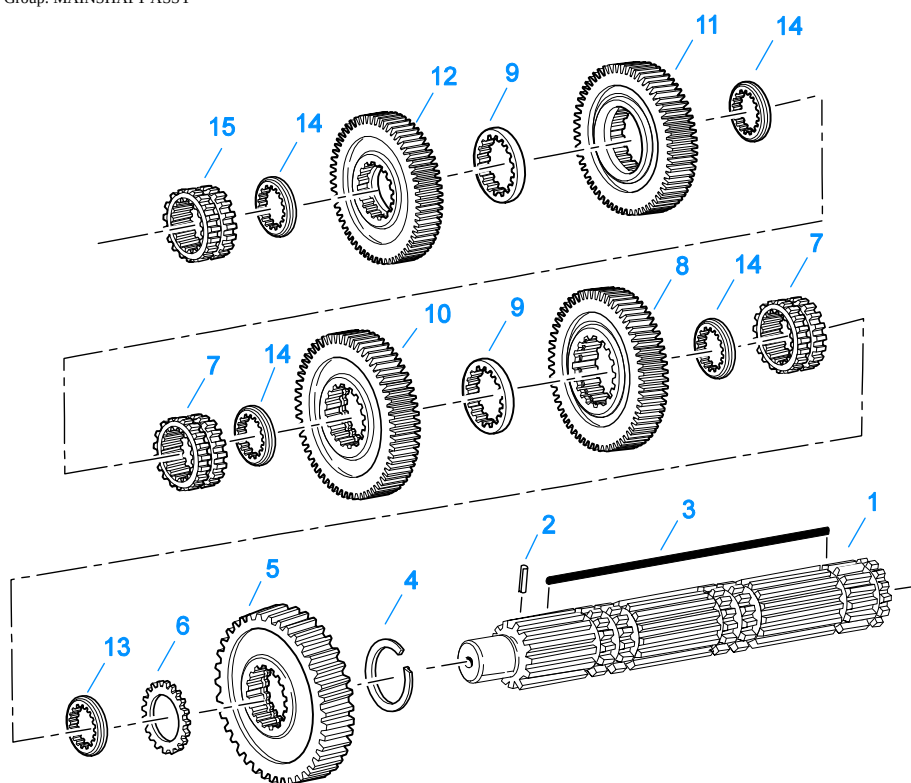
| Item     | Current Part | Description                                  | Replaced Part              | Qty. | Notes                                                                                                             | Kits/Assys Where Needed |
|----------|--------------|----------------------------------------------|----------------------------|------|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| K-1698   |              | -O- RING/ELEMENT KIT                         |                            | 1    | FOR FILTER REGULATOR                                                                                              |                         |
| K-2170   |              | FILTER REG KIT                               | A - 5454                   | 1    |                                                                                                                   |                         |
| 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-3231   |              | SPEED SENSOR KIT                             | A - 6398 ,A - 6724         | 1    | SINGLE PICK-UP (2 PIN)                                                                                            |                         |
| K-3365   |              | RANGE CYL COVER KIT                          | 691442                     | 1    |                                                                                                                   |                         |
| K-3436   |              | XY SHIFTER KIT                               | 691381 ,A - 7034           | 1    |                                                                                                                   |                         |
| K-3438   |              | POSITION SENSOR KIT                          | 691551 ,691926             | 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-3637   |              | INERTIA BRAKE KIT                            | A - 7452                   | 1    |                                                                                                                   |                         |
| K-3638   |              | I-BRAKE CONNECTOR KIT                        | 691499                     | 1    |                                                                                                                   |                         |
| K-3639RX |              | REMAN EXCHANGE TRANSMISSION CONTROLLER KIT   | K-3639, K-3639R            | 1    |                                                                                                                   |                         |
| K-3643   |              | CLUTCH HOUSING COVER KIT                     | 691954                     | 1    |                                                                                                                   |                         |
| K-3644   |              | INERTIA BRK ADPT PLT KIT                     | 4305450 ,4305732           | 1    |                                                                                                                   |                         |
| K-3682   |              | RANGE/SPLITTER VALVE KIT                     | 5561801 ,5561804 ,K - 2907 | 1    |                                                                                                                   |                         |
| K-3683   |              | INERTIA BRAKE RELOCATION KIT                 |                            | 1    |                                                                                                                   |                         |
| K-3758   |              | INERTIA BRAKE JUMPER HARNESS KIT             | 691703                     | 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    |                                                                                                                   |                         |
| S-1659   |              | INPUT SHAFT                                  | 20535 23566 ,4302661       | 1    | 2" PULL - USE W/FBC 20550                                                                                         | K-3519                  |
| S-2501   |              | SPEEDO ROTOR ASSY                            | 4302242                    | 1    | MAGNETIC                                                                                                          |                         |
| S-2688   |              | MAINSHAFT ASSY                               | 4303404 ,4303913           | 1    |                                                                                                                   |                         |
| S-2905   |              | SHIFT BAR HOUSING ASSY                       | 691532                     | 1    | COMPLETE                                                                                                          |                         |
| 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-2956   |              | RANGE SECTION ASSY                           |                            | 1    | "B" RATIO                                                                                                         |                         |
| S-2989   |              | PUSHBUTTON ASSEMBLY                          | S - 2985                   | 1    |                                                                                                                   |                         |
| S-2990   |              | PUSHBUTTON ASSEMBLY                          |                            | 1    | FOR USE WITH REMOTE LEVER                                                                                         |                         |
| S-2996   |              | CASE ASSY                                    | 4301355 ,4305766 ,S - 1989 | 1    |                                                                                                                   |                         |



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    |          |                             |



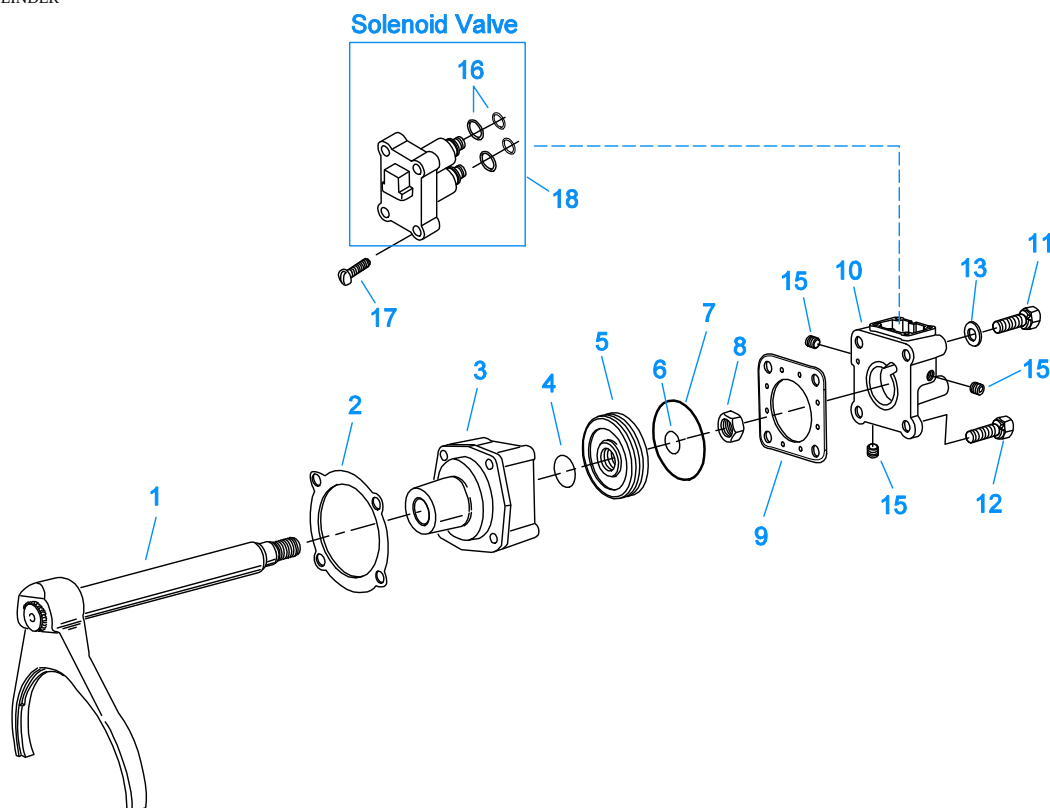
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## MAINSHAFT ASSY

| 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-3519,K-3522           |
| 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   | 4302381      | OD GEAR-MAINSHAFT      | 4302382 ,4302383 | 1    |       |                         |
| 13   | 4300830      | WASHER .244-BLUE       |                  | 1    |       |                         |
| 14   | 4302398      | WASHER                 |                  | 4    |       |                         |
| 15   | 4305996      | SLIDING CLUTCH         | 691922           | 1    |       | K-3519                  |

## MISCELLANEOUS

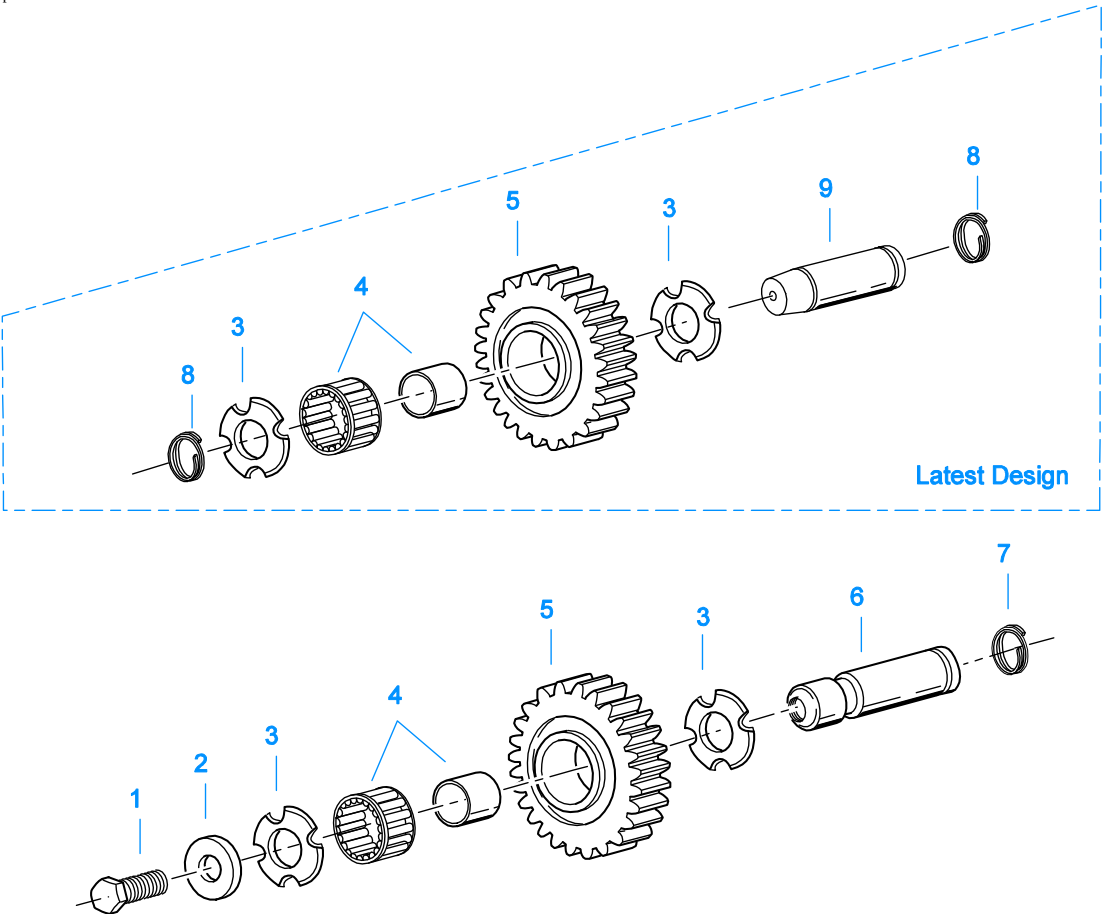
| Item | Current Part | Description         | Replaced Part | Qty. | Notes                            | Kits/Assys Where Needed |
|------|--------------|---------------------|---------------|------|----------------------------------|-------------------------|
|      | 5586272      | SHIFT DIAGRAM LABEL | 5586268       | 1    |                                  |                         |
|      | 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                  |



20539-03-01

## RANGE CYLINDER

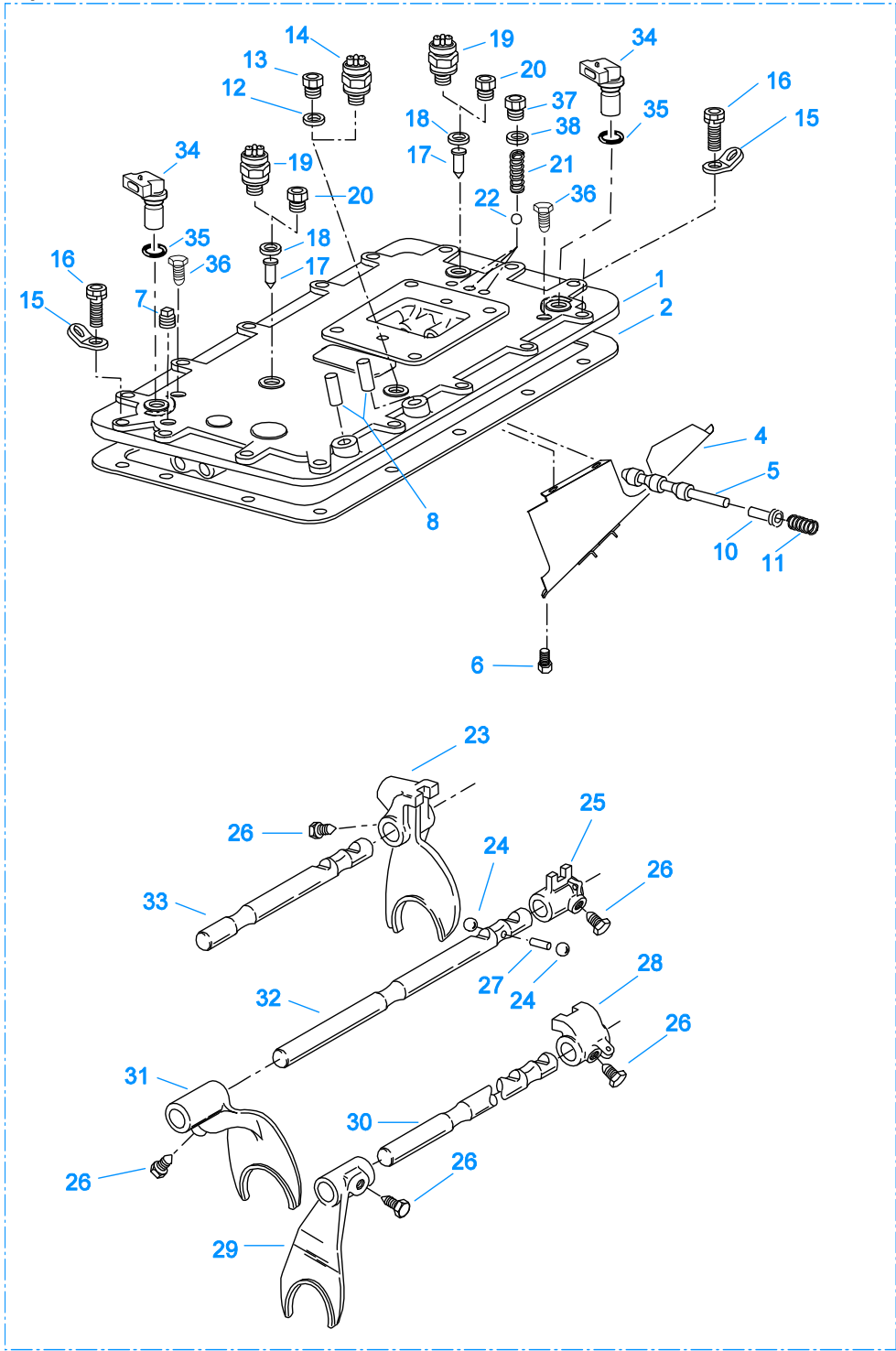
| Item | Current Part | Description              | Replaced Part              | Qty. | Notes              | Kits/Assys Where Needed |
|------|--------------|--------------------------|----------------------------|------|--------------------|-------------------------|
| 1    | A-5474       | SHIFT YOKE 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-2996           |
| 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<br>,4305513 | 2    |               |                         |
| 7    | 4303336      | RETAINING RING       |                            | 2    |               | K-3209                  |
| 8    | 4303336      | RETAINING RING       |                            | 4    |               | K-3209                  |
| 9    | 4305513      | IDLER SHAFT          |                            | 2    |               | K-3209                  |



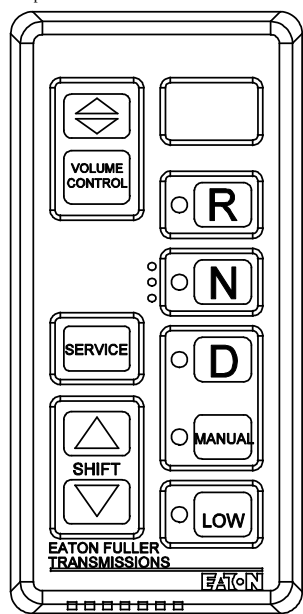
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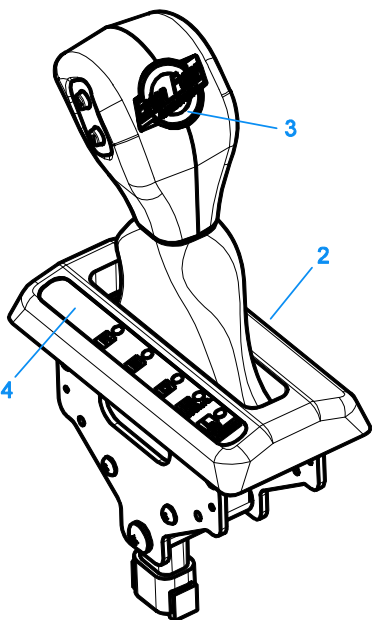
SHIFT BAR HOUSING

| 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    |
| 4    | 20070        | OIL TROUGH             |               | 1    |                                               | S-2905                  |
| 5    | 20332        | AIR VALVE SHAFT        | 17177         | 1    |                                               | S-2905                  |
| 6    | X-8-423      | CAPSCREW               |               | 2    | 1/4"-20X1/2"                                  |                         |

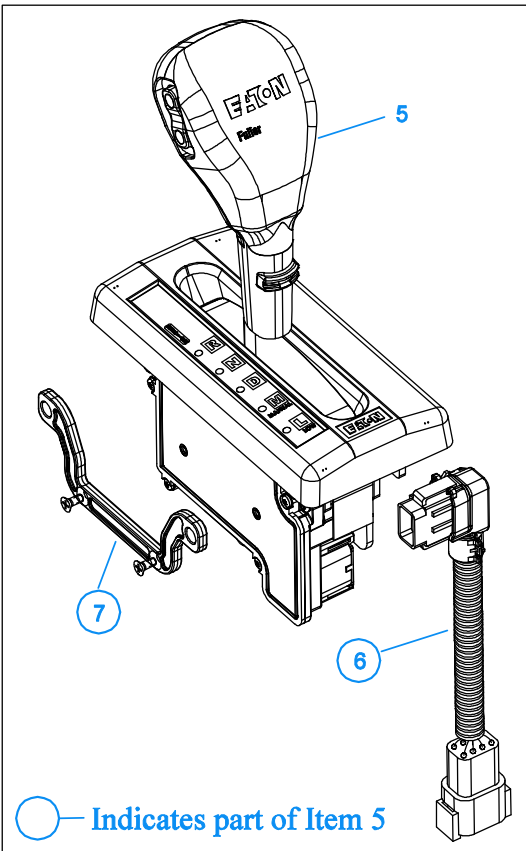
| Item | Current Part | Description            | Replaced Part      | Qty. | Notes                                                            | Kits/Assys Where Needed |
|------|--------------|------------------------|--------------------|------|------------------------------------------------------------------|-------------------------|
| 7    | X-12-603     | PIPE PLUG              | X12 602            | 1    | 3/8" NPT                                                         |                         |
| 8    | 4301378      | DOWEL PIN              |                    | 2    |                                                                  | S-2905                  |
| 10   | 21966        | PLUNGER                |                    | 1    |                                                                  |                         |
| 11   | 4301372      | SPRING                 |                    | 1    |                                                                  |                         |
| 12   | 17179        | GASKET                 |                    | 1    |                                                                  | S-2905,S-2915           |
| 13   | 4303655      | PLUG                   | 17178              | 1    |                                                                  | S-2905,S-2915           |
| 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           |
| 19   | 22940        | REVERSE LIGHT SWITCH   | 16830              | 1    | SWITCH NORMALLY OPEN                                             |                         |
| 20   | 4303656      | PLUG                   | 15917              | 2    |                                                                  | S-2905,S-2915           |
| 21   | 691661       | COMPRESSION SPRING     |                    | 3    |                                                                  | S-2905                  |
| 22   | X-14-800     | STEEL BALL             |                    | 3    | 1/2"                                                             |                         |
| 23   | 691712       | SHIFT YOKE             | 4301376            | 1    | REVERSE/1ST                                                      | S-2905                  |
| 24   | X-14-1200    | STEEL BALL             |                    | 2    | 3/4"                                                             |                         |
| 25   | 14658        | SHIFT BLOCK            |                    | 1    | 2ND/3RD                                                          | S-2905                  |
| 26   | 3220         | LOCKSCREW              |                    | 5    |                                                                  | S-2905                  |
| 27   | 1634         | INTERLOCK PIN          |                    | 1    |                                                                  | S-2905                  |
| 28   | 14659        | SHIFT BLOCK            |                    | 1    | 4TH/5TH                                                          | S-2905                  |
| 29   | 691601       | SHIFT YOKE             | 4302212            | 1    | 4TH/5TH                                                          | S-2905                  |
| 30   | 4301366      | YOKE BAR               |                    | 1    | 4TH/5TH                                                          | S-2905                  |
| 31   | 691600       | SHIFT YOKE             | 4302994            | 1    | 2ND/3RD                                                          | S-2905                  |
| 32   | 4301365      | YOKE BAR               |                    | 1    | 2ND/3RD                                                          | S-2905                  |
| 33   | 4301364      | YOKE BAR               |                    | 1    | REVERSE/1ST                                                      | S-2905                  |
| 34   | K-3231       | SPEED SENSOR KIT       | A - 6398 ,A - 6724 | 2    | SINGLE PICK-UP (2 PIN)                                           |                         |
| 35   | 14142        | -O- RING               |                    | 2    |                                                                  | K-3638,S-2905           |
| 36   | X-8C-409     | CAPSCREW               |                    | 2    | 1/4"-20X5/8"                                                     |                         |
| 37   | 4303656      | PLUG                   | 15917              | 3    |                                                                  | S-2905,S-2915           |
| 38   | 15900        | GASKET                 |                    | 3    |                                                                  | S-2905,S-2915           |
| 999  | S-2905       | SHIFT BAR HOUSING ASSY | 691532             | 1    | COMPLETE                                                         |                         |



PUSHBUTTONASSEMBLY



COBRA LEVER - only for use with 10MY559M Mack Swing Arm Bracket

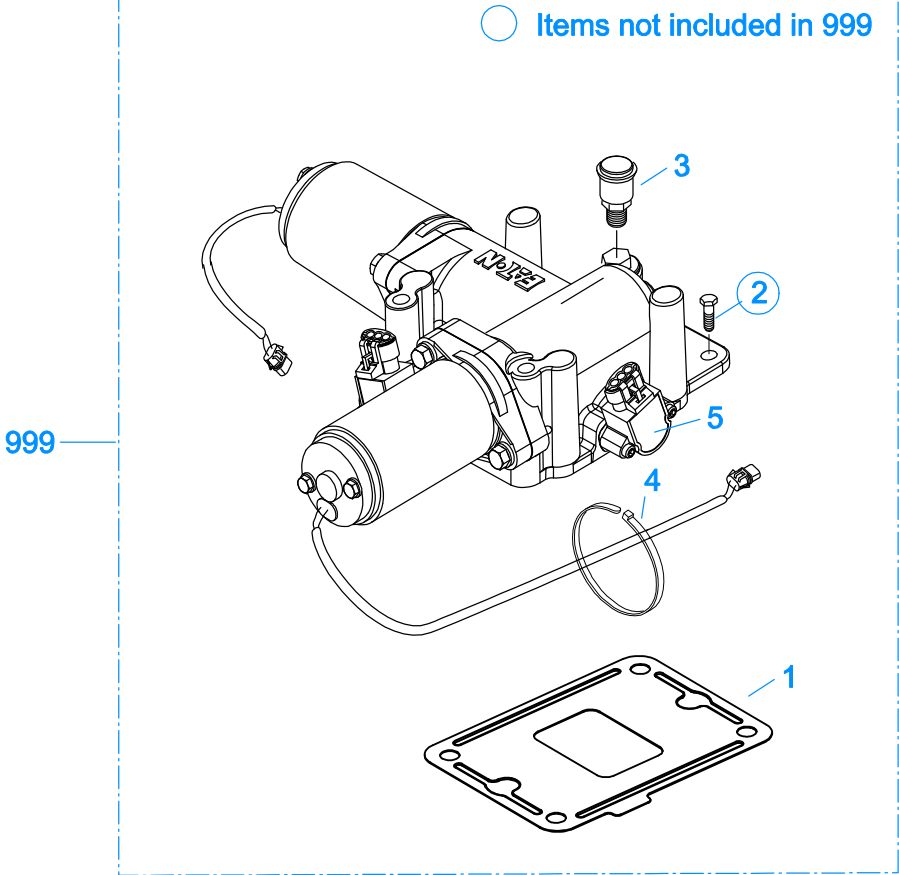


COBRA LEVER - Latest Design - for all applications with the exception of units using the 10MY559M Mack Swing Arm Bracket (see illustration to the left)

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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