



**Roadranger®**

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# Illustrated Parts List

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**RTO-11109B-ATE**  
**November 2008**

For parts or service call us  
Pro Gear & Transmission, Inc.



**1 (877) 776-4600**

**(407) 872-1901**

**parts@eprogear.com**

**906 W. Gore St.**

**Orlando, FL 32805**



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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).

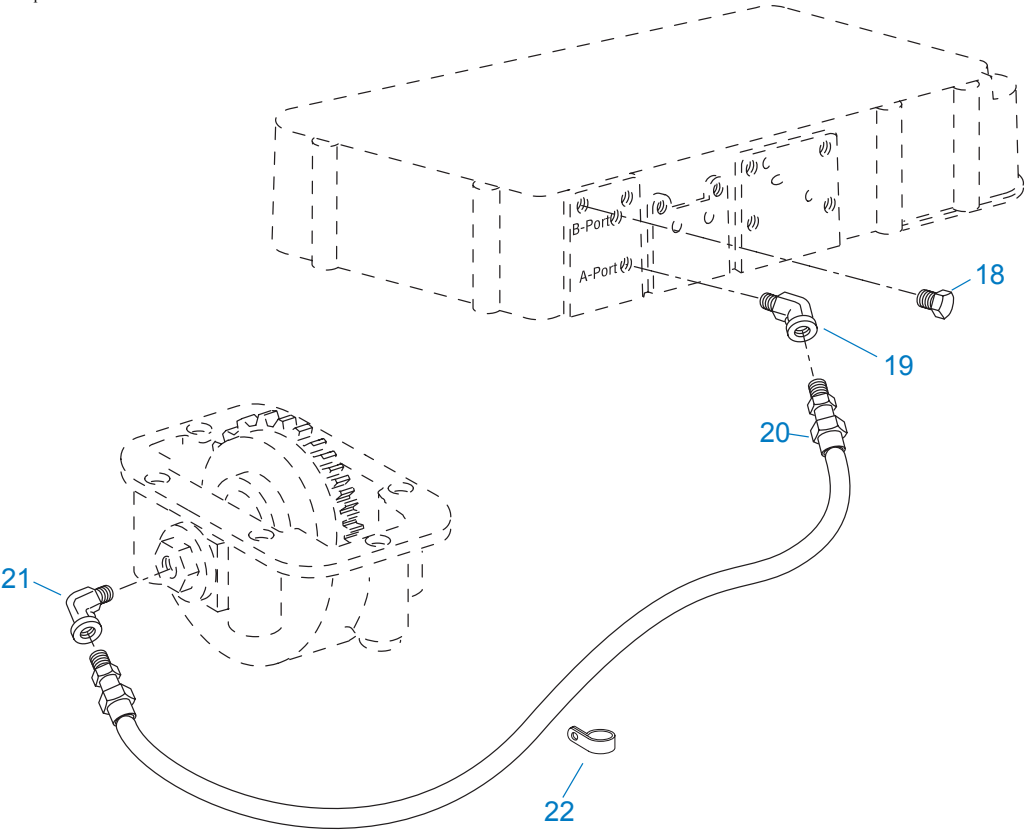
### Illustrations

- 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

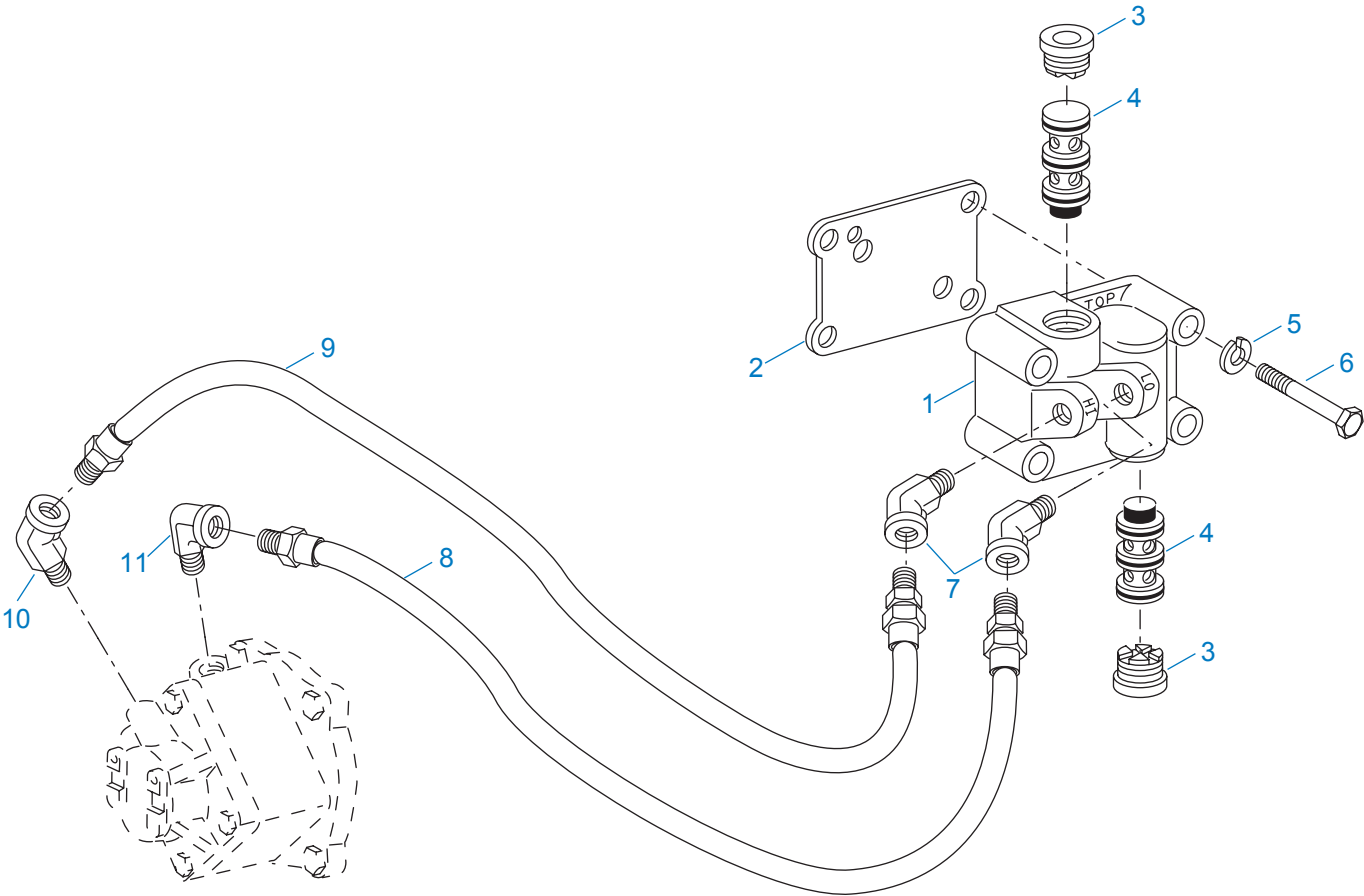
- **Item Number** - corresponding with numbers on illustrations for part identification.
- **Current Part** - identifies part as it is available for service.
- **Description** - specifies part name or description.
- **Replaced Part** - quantity quantity required for assembly.
- **Quantity** - defines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



Note: 3 options are available for mounting Inertia Brake – Hose Assy requirements differ.  
See parts listing for more information  
20120-11-93

AIR SYS-INERTIA BRAKE

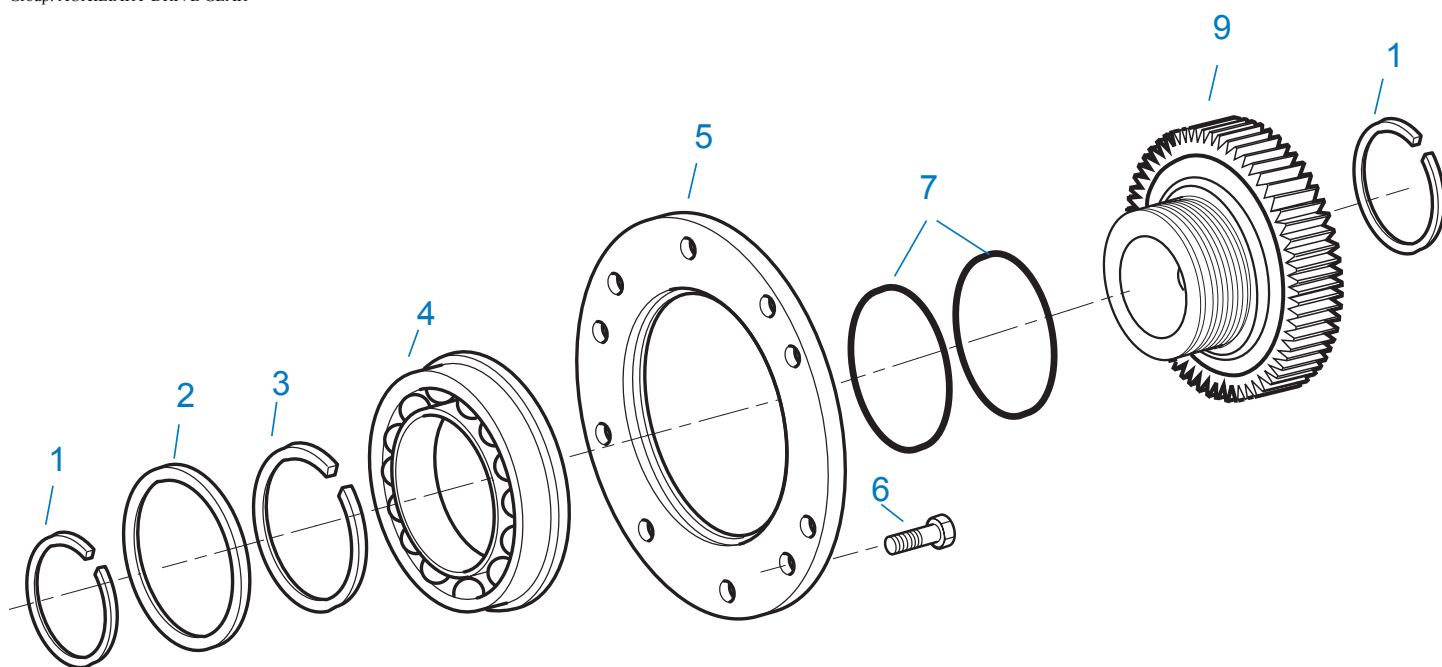
| Item | Current Part | Description | Replaced Part | Qty. | Notes                         | Kits/Assys Where Needed |
|------|--------------|-------------|---------------|------|-------------------------------|-------------------------|
| 18   | X-12-210     | PIPE PLUG   |               | 1    | 1/8"                          |                         |
| 19   | 12880        | ELBOW       |               | 1    | 1/8"                          |                         |
| 20   | 55506        | HOSE ASSY   |               | 1    | 18" - ROTATED 6 BOLT POSITION |                         |
| 20   | 55508        | HOSE ASSY   |               | 1    | 30" - 8 BOLT POSITION         |                         |
| 20   | 55525        | HOSE ASSY   |               | 1    | 17" - 6 BOLT POSITION         |                         |
| 21   | 12845        | ELBOW       |               | 1    | 1/8"                          |                         |
| 22   | 11665        | CLAMP       |               | 1    |                               |                         |



20100-11-93

AIR SYS-RANGE

| Item | Current Part | Description     | Replaced Part  | Qty. | Notes       | Kits/Assys Where Needed |
|------|--------------|-----------------|----------------|------|-------------|-------------------------|
| 1    | K-2979       | RANGE VALVE KIT | A - 5363       | 1    |             |                         |
| 2    | 22551        | GASKET          |                | 1    |             | K-2172,K-2979           |
| 3    | 22639        | PLUG            |                | 2    |             |                         |
| 4    | 4300810      | INSERT VALVE    | 22641 ,4303615 | 2    |             |                         |
| 5    | X-3-500      | LOCKWASHER      |                | 4    | 5/16"       |                         |
| 6    | X-8-546      | SCREW           |                | 4    | 5/16"-18X2" |                         |
| 7    | 12880        | ELBOW           |                | 2    | 1/8"        |                         |
| 8    | 55525        | HOSE ASSY       |                | 1    | 17"         |                         |
| 9    | 55506        | HOSE ASSY       |                | 1    | 18"         |                         |
| 10   | 12880        | ELBOW           |                | 1    | 1/8"        |                         |
| 11   | 12845        | ELBOW           |                | 1    | 1/8"        |                         |

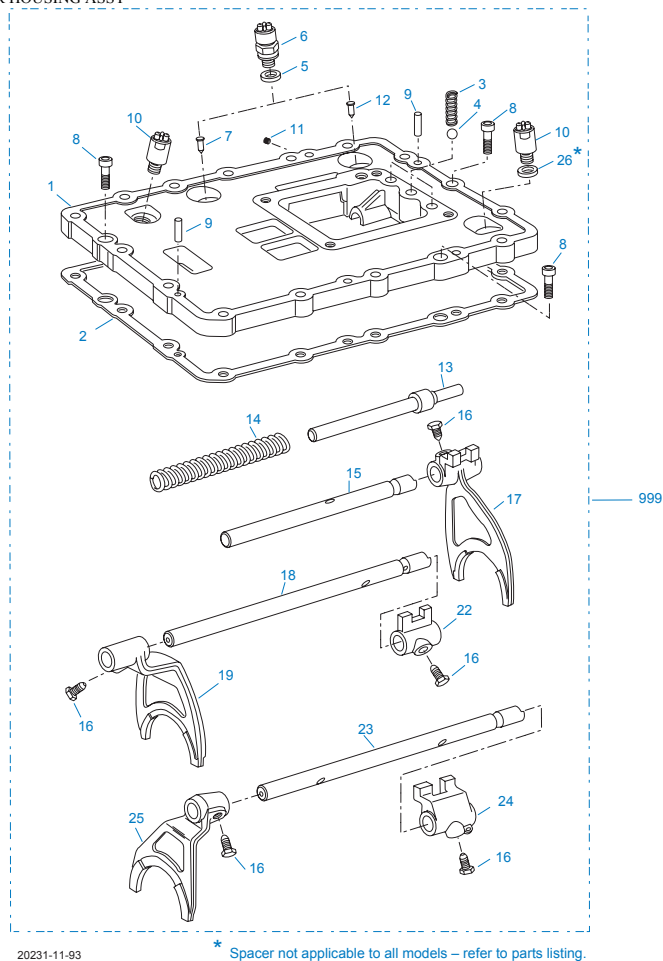


10482-12/92 Aux DG

**AUXILIARY DRIVE GEAR**

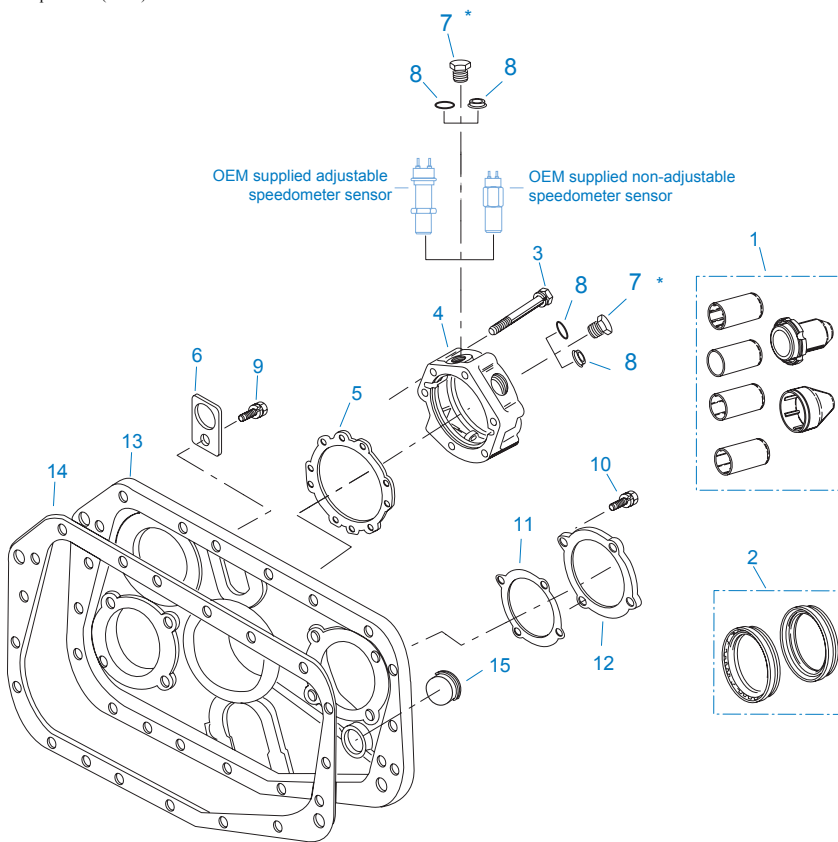
| Item | Current Part | Description         | Replaced Part   | Qty. | Notes      | Kits/Assys Where Needed                          |
|------|--------------|---------------------|-----------------|------|------------|--------------------------------------------------|
| 1    | 16763        | SNAP RING           |                 | 2    |            | K-2289,K-2290,K-2775,K-2776,K-2777,K-2829,K-2830 |
| 2    | 21320        | SNAP RING RETAINER  |                 | 1    | RTO ONLY   | K-2830                                           |
| 3    | 16628        | SNAP RING           |                 | 1    |            | K-2829,K-2830                                    |
| 4    | 5566507-BOX  | BEARING             | 5566504,5566507 | 1    |            | K-2289,K-2290,K-2775,K-2776,K-2777               |
| 5    | 16138        | BEARING RETAINER    |                 | 1    |            |                                                  |
| 6    | X-8-645      | CAPSCREW            |                 | 6    | 3/8"-16X1" |                                                  |
| 7    | 17453        | -O- RING            |                 | 2    |            | K-2289,K-2290,K-2630,K-2775,K-2776,K-2777        |
| 9    | K-2630       | REPL KIT-DRIVE GEAR | 4300548         | 1    |            |                                                  |

Group: BAR HOUSING ASSY



## BAR HOUSING ASSY

| Item | Current Part | Description            | Replaced Part   | Qty. | Notes                               | Kits/Assys Where Needed                   |
|------|--------------|------------------------|-----------------|------|-------------------------------------|-------------------------------------------|
| 1    | K-2754       | SHIFT BAR HSG ASSY     | 22596           | 1    | HOUSING ONLY                        |                                           |
| 2    | 4302676      | GASKET                 | 14918           | 1    |                                     | K-2172,K-2754,S-1876                      |
| 3    | 1069         | SPRING                 |                 | 3    |                                     | K-2775,K-2776,K-2777,K-2829,K-2830,S-1876 |
| 4    | X-14-800     | STEEL BALL             |                 | 3    | 1/2"                                |                                           |
| 5    | 15900        | GASKET                 |                 | 2    |                                     | K-2633,S-1876                             |
| 6    | 691744       | SHIFT SENSOR SWITCH    | 22565           | 2    |                                     | K-2633,S-1876                             |
| 7    | 691316       | ACTUATING SWITCH PIN   | 23112           | 1    |                                     | S-1876                                    |
| 8    | X-8-691      | CAPSCREW               |                 | 3    | 3/8"-16X1"                          |                                           |
| 9    | 62516        | ROLL PIN               | 62521           | 2    |                                     | S-1876                                    |
| 10   | K-2980       | SENSOR UPDATE KIT      | 22567 ,K - 2631 | 2    |                                     |                                           |
| 11   | X-12-102     | PLUG                   |                 | 1    |                                     |                                           |
| 12   | K-3271       | NEUTRAL SWITCH KIT     | 22603           | 1    |                                     |                                           |
| 13   | 691314       | ACTUATING SHAFT SWITCH | 22601           | 1    |                                     | K-3271,S-1876                             |
| 14   | 22604        | SPRING                 |                 | 1    |                                     | S-1876                                    |
| 15   | 22600        | YOKE BAR               |                 | 1    | LOW/REVERSE                         | S-1876                                    |
| 16   | 3220         | LOCKSCREW              |                 | 5    |                                     | S-1876                                    |
| 17   | 22434        | YOKE                   |                 | 1    | LOW/REVERSE                         | S-1876                                    |
| 18   | 22593        | YOKE BAR               |                 | 1    | 1ST/2ND                             | S-1876                                    |
| 19   | 691600       | SHIFT YOKE             | 4302994         | 1    | 1ST/2ND                             | S-1876                                    |
| 22   | 14658        | SHIFT BLOCK            |                 | 1    | 1ST/2ND                             | S-1876                                    |
| 23   | 22594        | YOKE BAR               |                 | 1    | 3RD/4TH                             | S-1876                                    |
| 24   | 4303273      | SHIFT BLOCK            | 22602           | 1    | 3RD/4TH                             | S-1876                                    |
| 25   | 691601       | SHIFT YOKE             | 4302212         | 1    | 3RD/4TH                             | S-1876                                    |
| 26   | 23166        | SPACER                 |                 | 1    | USE FOR RTO,B-RATIO,ATE MODELS ONLY | K-2980                                    |
| 999  | S-1876       | SHIFT BAR HSG ASSY     | 22596           | 1    | COMPLETE                            |                                           |



\* Note — Items 7 & 8 / Magnetic Speedometer Openings:

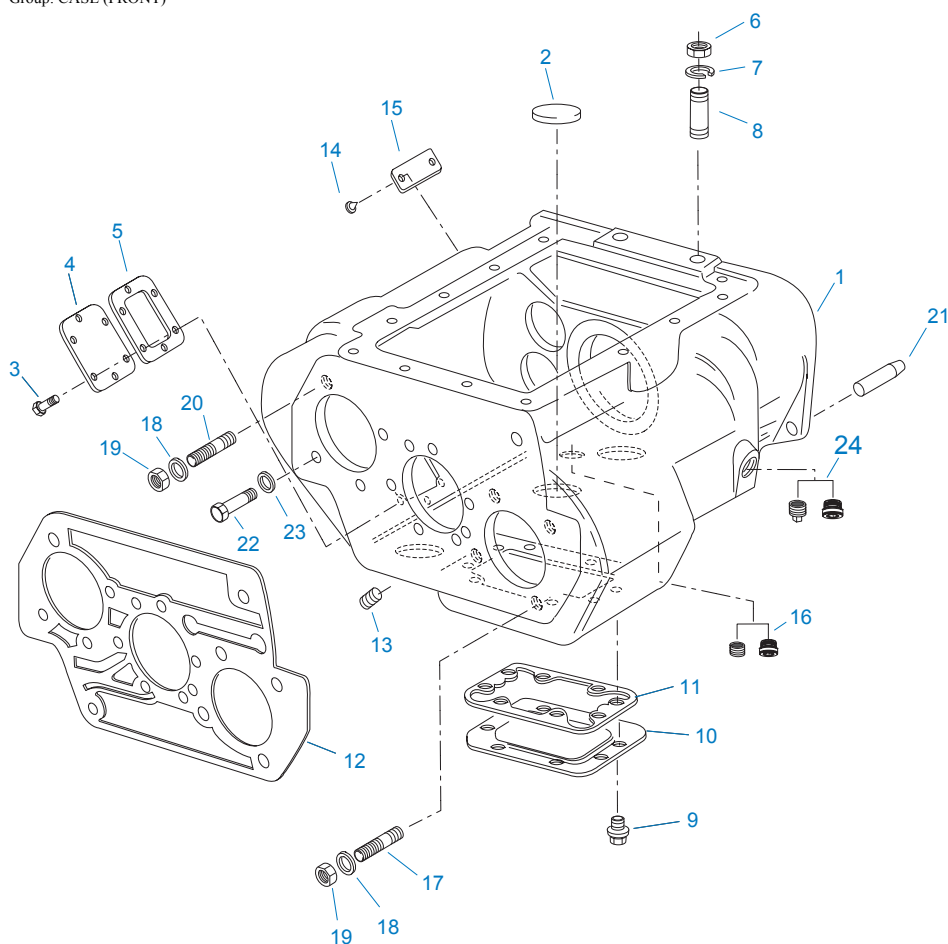
Use 13679 "O" ring w/ OEM supplied adjustable speedometer sensor

and 20225 "O" ring w/ OEM supplied non-adjustable speedometer sensor or Eaton part #20224 Plug

20525-11-93

## CASE (AUX)

| Item | Current Part | Description         | Replaced Part                                     | Qty. | Notes                                                                                                                   | Kits/Assys Where Needed            |
|------|--------------|---------------------|---------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1    | K-3651       | OIL SEAL TOOL KIT   |                                                   | 1    |                                                                                                                         |                                    |
| 2    | K-2262       | OIL SEAL W/SLINGER  | 19109 20807 20808                                 | 1    | "FOR MECHANICAL COVER"                                                                                                  | K-2289,K-2290,K-2775,K-2776,K-2777 |
| 3    | X-8L-611     | CAPSCREW            |                                                   | 6    | 3/8"-16X3-1/4"                                                                                                          |                                    |
| 4    | S-2119       | REAR BRG COVER ASSY | 20048 ,22045 ,4302009 ,4302031 ,S - 1558 S - 1560 | 1    | EXTENDED                                                                                                                |                                    |
| 5    | 15532        | GASKET              |                                                   | 1    |                                                                                                                         | K-2172,K-2262,S-2113,S-2119        |
| 6    | 23646        | LIFTING EYE         |                                                   | 1    |                                                                                                                         |                                    |
| 7    | 20224        | PLUG-MAGNETIC       |                                                   | 2    |                                                                                                                         | S-2113,S-2119,S-2181,S-2183        |
| 8    | 20225        | -O- RING            |                                                   | 2    | USE W/20224 PLUG OR OEM SUPPLIED NON-ADJUSTABLE SPEEDOMETER SENSOR NOT TO BE USED WITH 4301954 SEAL O-RING NOT REQUIRED |                                    |
| 8    | 4301954      | SENSOR SEAL         |                                                   | 2    |                                                                                                                         | S-2113,S-2119                      |
| 9    | X-8L-602     | CAPSCREW            |                                                   | 16   | 3/8"-16X1-1/2"                                                                                                          |                                    |
| 9    | X-8L-605     | CAPSCREW            |                                                   | 1    | 3/8"-16X3"                                                                                                              |                                    |
| 9    | X-8L-614     | CAPSCREW            |                                                   | 2    | 3/8"-16X2"                                                                                                              |                                    |
| 10   | X-8L-602     | CAPSCREW            |                                                   | 8    | 3/8"-16X1-1/2"                                                                                                          |                                    |
| 11   | 22420        | GASKET              |                                                   | 2    |                                                                                                                         | K-2172                             |
| 12   | 16770        | REAR BEARING COVER  |                                                   | 2    |                                                                                                                         |                                    |
| 13   | 21156        | REAR HOUSING        |                                                   | 1    |                                                                                                                         |                                    |
| 14   | 14335        | GASKET              |                                                   | 1    |                                                                                                                         | K-2172,S-2181,S-2183               |
| 15   | 21073        | EXPANSION PLUG      |                                                   | 1    |                                                                                                                         |                                    |

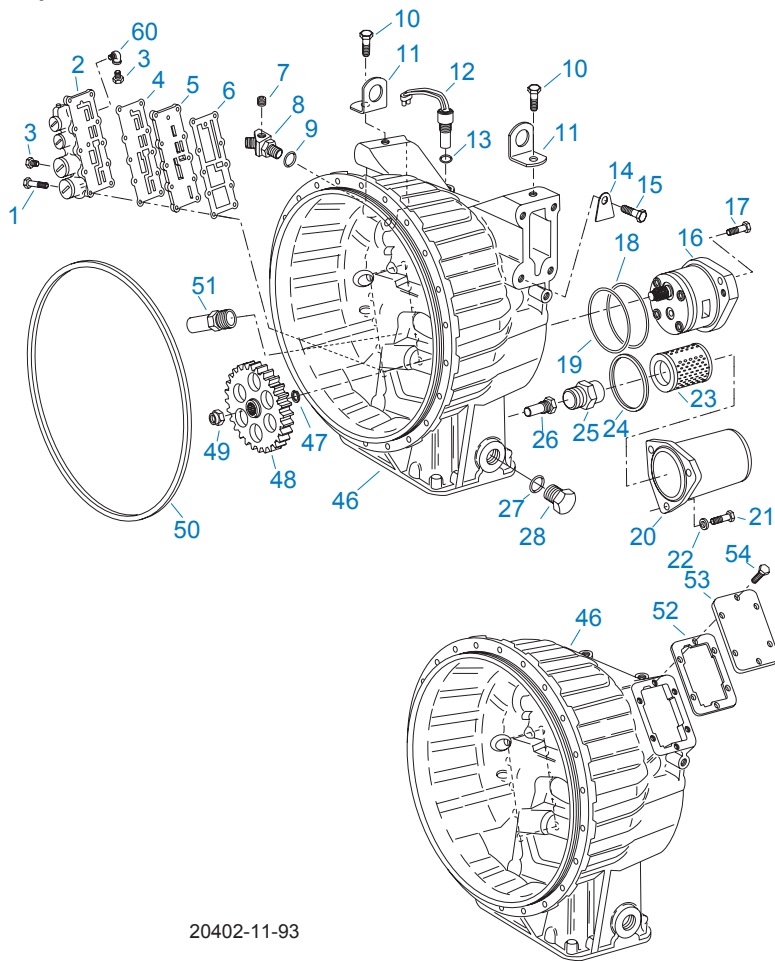


20445-11-93

**CASE (FRONT)**

| Item | Current Part | Description         | Replaced Part                | Qty. | Notes                                | Kits/Assys Where Needed     |
|------|--------------|---------------------|------------------------------|------|--------------------------------------|-----------------------------|
| 1    | S-1785       | CASE ASSY           | 23583                        | 1    |                                      |                             |
| 2    | 14373        | MAGNET              |                              | 3    |                                      | S-1785                      |
| 3    | X-8-686      | CAPSCREW            |                              | 6    | 3/8"-16X3/4"                         |                             |
| 4    | 14575        | PTO COVER           | 4302254                      | 1    |                                      |                             |
| 5    | 4305309      | GASKET              | 1684                         | 1    |                                      | K-2172,K-2388,K-2906        |
| 6    | X-1-1005     | NUT                 | X 1 1000                     | 2    | 5/8"-18                              |                             |
| 7    | X-10-1005    | WASHER              | X 3 1000 ,X10 1000 ,X10 1004 | 2    | 1.23 X 6.60                          |                             |
| 8    | 14554        | STUD                | 1632 ,6579                   | 2    | 5/8" X 2-3/16"                       |                             |
| 9    | X-8-725      | CAPSCREW            |                              | 8    | 7/16"-14X7/8" NOT USED ON ATE MODELS |                             |
| 10   | 4302809      | PTO COVER           | 16596 ,4300571               | 1    | NOT USED ON ATE MODELS               |                             |
| 11   | 4305310      | GASKET              | 4302810                      | 1    |                                      | K-2172                      |
| 12   | 22507        | GASKET              |                              | 1    |                                      | K-2172,K-2388,K-2504,K-2625 |
| 13   | X-12-802     | PIPE PLUG           |                              | 1    | 1/2"                                 |                             |
| 16   | 4304023      | PLUG                | 4303747                      | 1    | 1-1/16" MAGNETIC, O-RING INCLUDED    | S-1785                      |
| 16   | X-12-1207    | PIPE PLUG           | X12 1202 ,X12 1206           | 1    | 3/4" MAGNETIC                        |                             |
| 17   | 4302708      | STUD                | 5966                         | 4    |                                      |                             |
| 18   | X-10-1005    | WASHER              | X 3 1000 ,X10 1000 ,X10 1004 | 6    | 1.23 X 6.60                          |                             |
| 19   | X-1-1005     | NUT                 | X 1 1000                     | 6    | 5/8"-18                              |                             |
| 20   | 22916        | STUD                |                              | 2    |                                      |                             |
| 21   | 14334        | DOWEL               |                              | 2    |                                      |                             |
| 22   | X-8-808      | CAPSCREW            |                              | 4    | 1/2"-13X1-1/4"                       |                             |
| 23   | X-10-802     | NO LONGER AVAILABLE |                              | 4    | 1/2" PLAIN                           |                             |
| 24   | 4304023      | PLUG                | 4303747                      | 1    | 1-1/16" MAGNETIC, O-RING INCLUDED    | S-1785                      |
| 24   | X-12-2007    | PIPE PLUG           | X12 2006                     | 1    |                                      |                             |



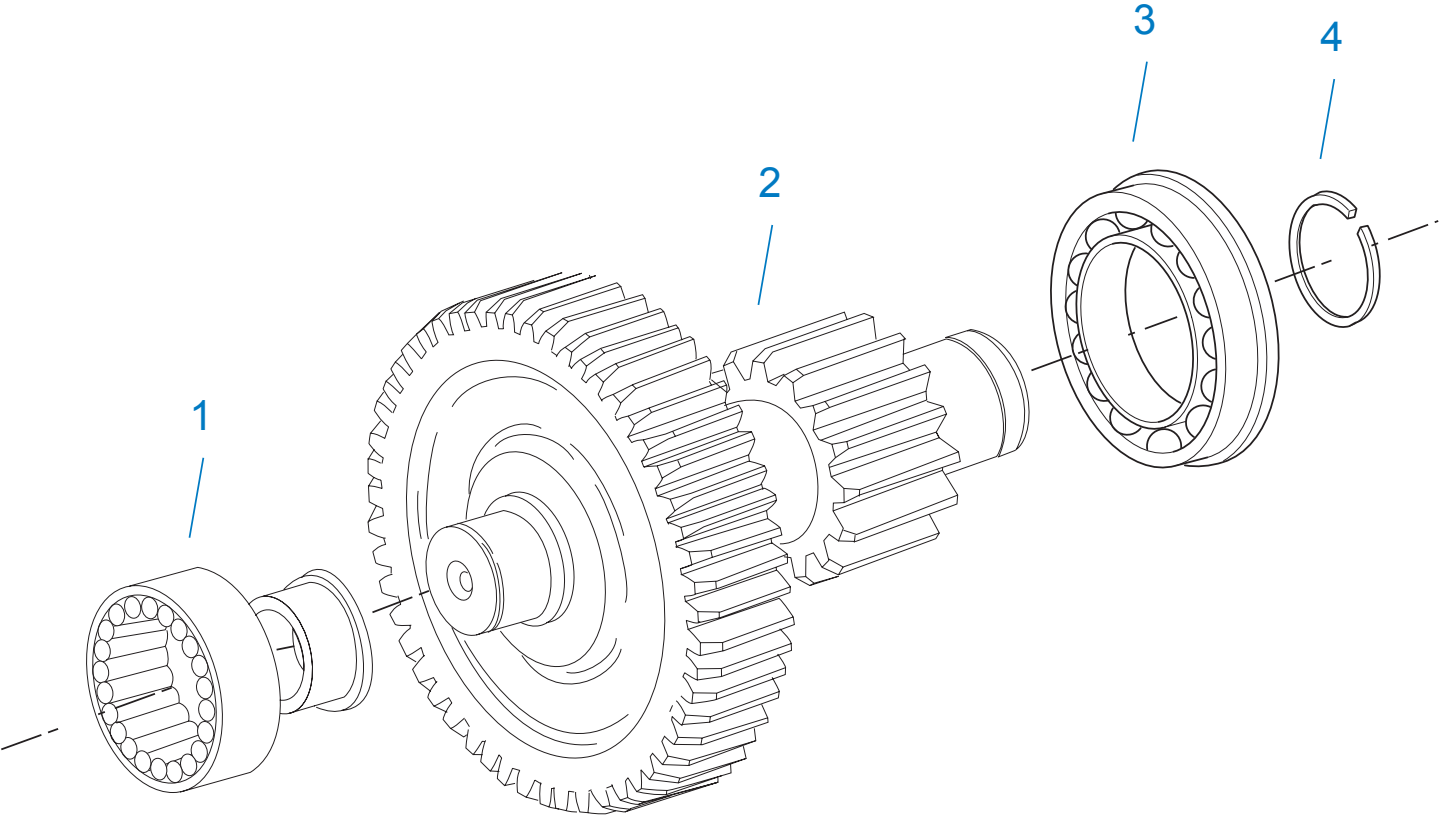


20402-11-93

## CONVERTER HOUSING ASSY

| Item | Current Part | Description          | Replaced Part    | Qty. | Notes          | Kits/Assys Where Needed            |
|------|--------------|----------------------|------------------|------|----------------|------------------------------------|
| 1    | X-8-6104     | CAPSCREW             |                  | 2    | 3/8"-16X2-3/4" |                                    |
| 1    | X-8L-672     | CAPSCREW             |                  | 6    | 3/8"-16X3-1/4" |                                    |
| 1    | X-8L-681     | CAPSCREW             |                  | 2    | 3/8"-16X2-3/4" |                                    |
| 2    | A-5587       | VALVE ASSY           |                  | 1    |                |                                    |
| 3    | X-12-210     | PIPE PLUG            |                  | 4    | 1/8"           |                                    |
| 4    | 22532        | GASKET               |                  | 1    |                | K-2172,K-2387R,K-2388,K-2625       |
| 5    | 23612        | PLATE                |                  | 1    |                |                                    |
| 6    | 22534        | GASKET               |                  | 1    |                | K-2172,K-2387R,K-2388,K-2625       |
| 7    | X-12-802     | PIPE PLUG            | X12 800          | 1    | 1/2"           |                                    |
| 8    | K-3226       | ELBOW KIT            | 4300307          | 1    |                |                                    |
| 9    | 23109        | -O- RING             |                  | 1    |                | K-2388,K-2625,K-2877,K-2914,K-2915 |
| 10   | X-8L-601     | CAPSCREW             |                  | 2    | 3/8"-16X3/4"   |                                    |
| 11   | 23645        | LIFTING EYE          |                  | 2    | 90 DEG.        |                                    |
| 12   | K-2632       | ENG SPEED SENSOR KIT | 22569            | 1    |                |                                    |
| 13   | 22504        | -O- RING             |                  | 1    |                | K-2388,K-2625,K-2632               |
| 14   | 23573        | INSTRUCTION TAG      |                  | 3    |                |                                    |
| 15   | X-8-1202     | SCREW                |                  | 3    | 3/4"-10X1"     |                                    |
| 16   | K-2911       | OIL PUMP KIT         | 4300747 ,4302714 | 1    |                |                                    |
| 17   | X-8C-604     | CAPSCREW             |                  | 2    | 3/8"-16X1-1/4" |                                    |
| 18   | 691342       | SEAL RING            | 5568503          | 1    |                | K-2388,K-2504,K-2625,K-2911        |
| 19   | 22430        | -O- RING             |                  | 1    |                | K-2388,K-2504,K-2625,K-2911        |
| 20   | 23220        | FILTER BOWL          |                  | 1    |                |                                    |
| 21   | X-8-6105     | SCREW                | X 8 6106         | 3    | 3/8"-16X1-1/4" |                                    |
| 22   | X-3-607      | CONICAL WASHER       |                  | 3    | 3/8"           |                                    |
| 23   | 22510        | OIL FILTER           |                  | 1    |                | K-2314                             |

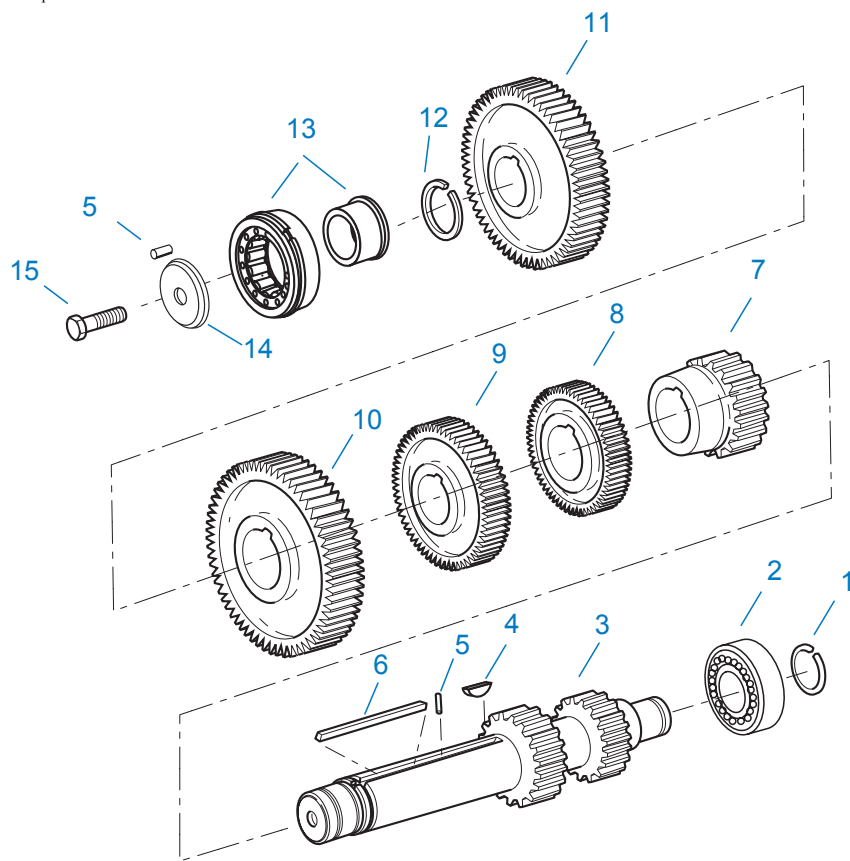
| Item | Current Part | Description              | Replaced Part     | Qty. | Notes         | Kits/Assys Where Needed            |
|------|--------------|--------------------------|-------------------|------|---------------|------------------------------------|
| 24   | 23108        | -O- RING                 |                   | 1    |               | K-2314,K-2388,K-2625               |
| 25   | 22512        | NIPPLE                   |                   | 1    |               |                                    |
| 26   | A-5732       | RELIEF VALVE ASSY        |                   | 1    |               | K-2625,S-2015                      |
| 27   | 23029        | -O- RING                 |                   | 1    |               | K-2388,K-2625,K-2914               |
| 28   | 23028        | PLUG                     |                   | 1    |               | K-2914                             |
| 46   | K-2388       | CONVERTER HOUSING KIT    | 4300323 ,4300377  | 1    | 6 BOLT ACCESS |                                    |
| 46   | K-2625       | #1 CONVERTER HSG KIT     |                   | 1    |               |                                    |
| 47   | 4302219      | SNAP RING                |                   | 1    |               | K-2911                             |
| 48   | 4302216      | PUMP GEAR                |                   | 1    |               |                                    |
| 49   | X-1-1008     | NUT                      |                   | 1    | 5/8"-18       |                                    |
| 50   | 23487        | SEAL RING                |                   | 1    |               | K-2172,K-2388,K-2398,K-2504,K-2990 |
| 51   | A-7119       | FILTER BYPASS VALVE ASSY | A - 6067 A - 6393 | 1    |               | K-2387R,K-2625,S-2015              |
| 52   | 4305309      | GASKET                   | 1684              | 1    |               | K-2172,K-2388,K-2906               |
| 53   | 14575        | PTO COVER                | 4302254           | 1    |               |                                    |
| 54   | X-8-686      | CAPSCREW                 |                   | 6    | 3/8"-16X3/4"  |                                    |
| 60   | 12845        | ELBOW                    |                   | 2    | 1/8"          |                                    |



10442-4/92 Aux CS

COUNTERSHAFT & BRGS(AUX)

| Item | Current Part | Description              | Replaced Part | Qty. | Notes                 | Kits/Assys Where Needed                          |
|------|--------------|--------------------------|---------------|------|-----------------------|--------------------------------------------------|
| 1    | 8879         | BEARING                  |               | 2    |                       | K-2289,K-2290,K-2775,K-2776,K-2777,S-2181,S-2183 |
| 2    | A-4728       | WELDED COUNTERSHAFT ASSY |               | 2    | C/S 19666 - D/G 19276 |                                                  |
| 3    | 81012        | BEARING                  |               | 2    |                       | K-2289,K-2776                                    |
| 4    | 11364        | SNAP RING                |               | 2    |                       | K-2289,K-2776                                    |

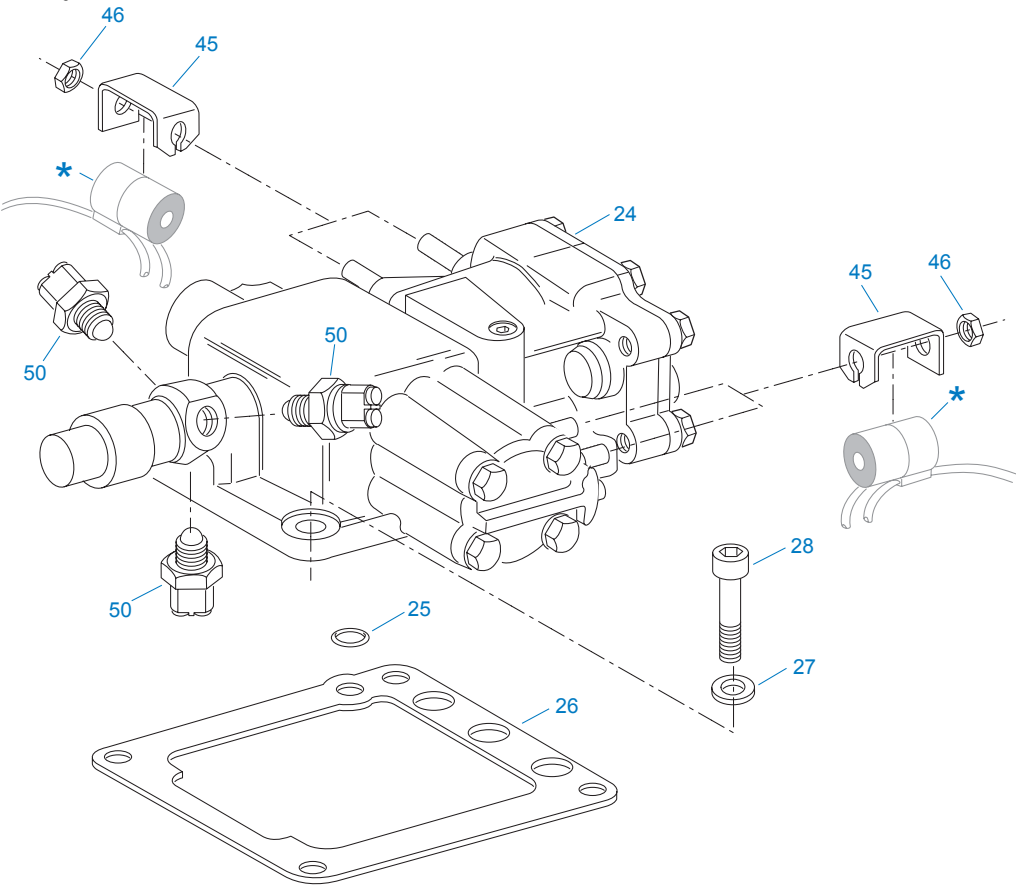


10341-1/92 CS/RT

**COUNTERSHAFT ASSY**

| Item | Current Part | Description         | Replaced Part          | Qty. | Notes                       | Kits/Assys Where Needed                          |
|------|--------------|---------------------|------------------------|------|-----------------------------|--------------------------------------------------|
| 1    | 14317        | SNAP RING           |                        | 2    |                             | K-2289,K-2290,K-2775,K-2776,K-2777,K-2829,K-2830 |
| 2    | 14366        | BEARING             |                        | 2    |                             | K-2289,K-2290,K-2775,K-2776,K-2777               |
| 3    | K-2934       | CNTRSHFT-UPPER      | 19549                  | 1    |                             |                                                  |
| 3    | K-3783       | CNTRSHFT-LOWER      | 20804, 4301054, K-2935 | 1    |                             |                                                  |
| 4    | X-6-E        | KEY                 |                        | 2    |                             |                                                  |
| 5    | 62511        | ROLL PIN            |                        | 4    |                             |                                                  |
| 6    | 4304840      | KEY                 | 19673                  | 2    |                             |                                                  |
| 7    | 21025        | 1ST GEAR-CNTRSHFT   | 19629                  | 2    |                             |                                                  |
| 8    | 21264        | 2ND GEAR-CNTRSHFT   | 19623                  | 2    |                             |                                                  |
| 9    | 21262        | OD GEAR-CNTRSHFT    | 19639 ,21027           | 2    |                             |                                                  |
| 10   | 15953        | PTO GEAR - LOWER    |                        | 1    |                             |                                                  |
| 10   | 20840        | PTO GEAR - UPPER    |                        | 1    |                             |                                                  |
| 11   | 4305665      | DRIVE GEAR-CNTRSHFT | 21018,4305069          | 2    |                             |                                                  |
| 12   | 19198        | SNAP RING           |                        | 2    |                             |                                                  |
| 13   | 4304599      | BEARING             | 4302677 4304598        | 2    |                             | K-2289,K-2290,K-2775,K-2776,K-2777               |
| 14   | 4304605      | RETAINER            | 19548                  | 2    | ROLL PIN NO LONGER REQUIRED |                                                  |
| 15   | X-7-1005     | CAPSCREW            |                        | 2    | 5/8"-18X1-3/4"              |                                                  |

Group: ECU CONTROLS  
Sub-Group: AUTO SHIFTER ASSY



20226-11-93

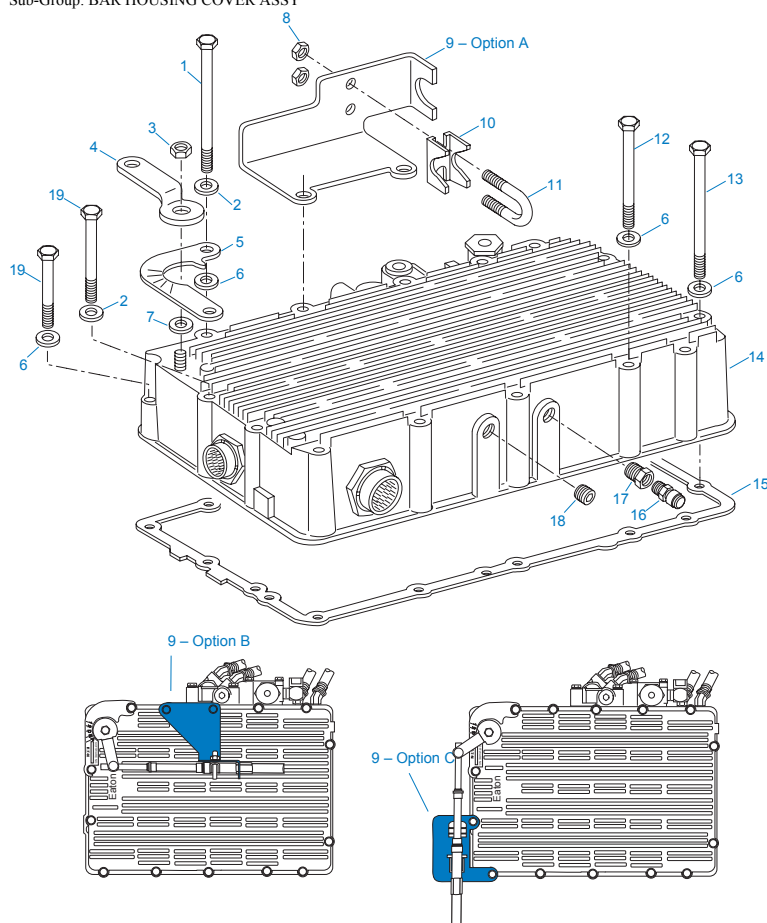
\* Indicates connection for Auto Shifter Harness Assembly

ECU CONTROLS

AUTO SHIFTER ASSY

| Item | Current Part | Description           | Replaced Part      | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|-----------------------|--------------------|------|----------------|-------------------------|
| 24   | K-2983       | AUTO SHIFTER KIT      | A - 5517 ,K - 2635 | 1    |                |                         |
| 24   | K-2983R      | REMAN AUTOSHIFTER KIT | K - 3080           | 1    |                |                         |
| 25   | 14197        | -O- RING              |                    | 1    |                |                         |
| 26   | 691303       | GASKET                | 22592              | 1    |                |                         |
| 27   | X-10-600     | WASHER                |                    | 4    | 3/8"           |                         |
| 28   | X-8-6101     | CAPSCREW              |                    | 4    | 3/8"-16X1-1/2" |                         |
| 45   | 22867        | YOKE                  |                    | 4    |                |                         |
| 46   | X-16-700     | NUT                   |                    | 4    | 7/16"-20       |                         |
| 50   | 691744       | SHIFT SENSOR SWITCH   | 22565              | 3    |                |                         |

Group: ECU CONTROLS  
Sub-Group: BAR HOUSING COVER ASSY



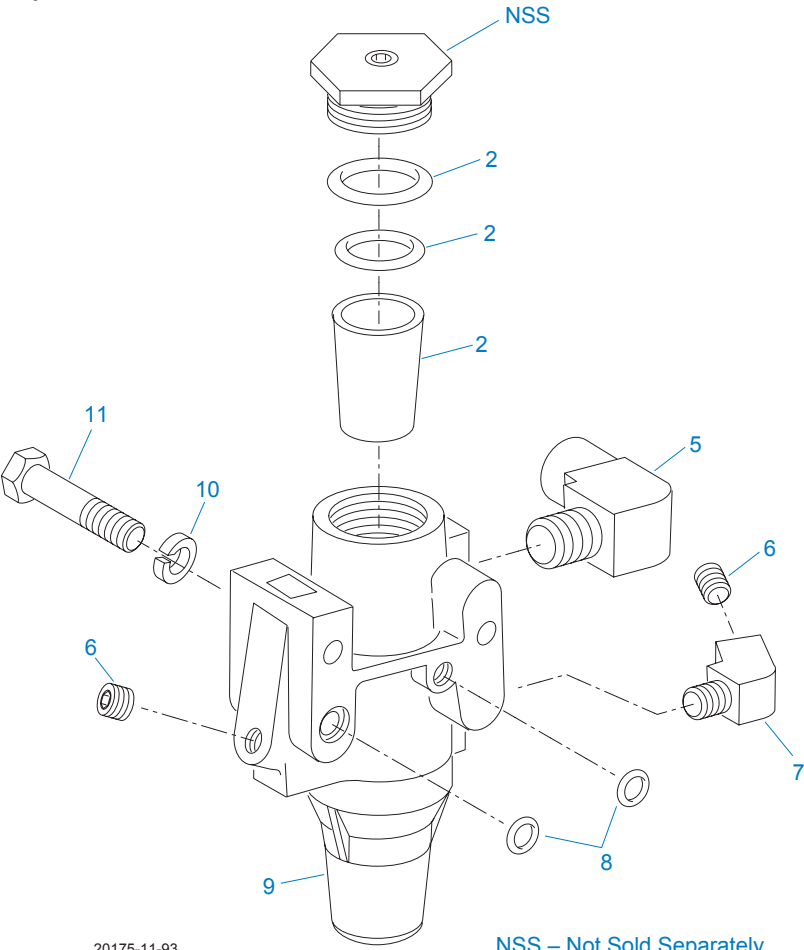
Note: Three bracket options are available for mounting shift cable – item 9.  
20200-11-93

## ECU CONTROLS

### BAR HOUSING COVER ASSY

| Item | Current Part | Description           | Replaced Part | Qty. | Notes                                                              | Kits/Assys Where Needed |
|------|--------------|-----------------------|---------------|------|--------------------------------------------------------------------|-------------------------|
|      | 28.001       | CEEMAT ECU P/N CHART  |               | 1    |                                                                    |                         |
| 1    | X-8-690      | CAPSCREW              |               | 3    | 3/8"-16X5"                                                         |                         |
| 2    | X-10-605     | WASHER                |               | 2    | 3/8"                                                               |                         |
| 3    | X-1-604      | NUT                   |               | 1    | 3/8"-24                                                            |                         |
| 4    | 4300049      | SHIFT CONTROL LEVER   |               | 1    | 5/6 POSITION                                                       |                         |
| 4    | 4300074      | SHIFT CONTROL LEVER   |               | 1    | 7 POSITION                                                         |                         |
| 5    | 4300042      | SHIFT INDICATOR PLATE |               | 1    | 5 POSITION                                                         |                         |
| 5    | 4300044      | SHIFT INDICATOR PLATE |               | 1    | 6 POSITION                                                         |                         |
| 5    | 4300045      | SHIFT INDICATOR PLATE |               | 1    | 7 POSITION                                                         |                         |
| 6    | 23473        | WASHER                |               | 15   |                                                                    |                         |
| 7    | 22544        | WASHER                |               | 1    |                                                                    |                         |
| 8    | X-1-405      | NUT                   | X 9 402       | 2    |                                                                    |                         |
| 9    | 4300054      | BRACKET               |               | 1    | OPTION A - USE X-8-690 CAPSCREWS                                   |                         |
| 9    | 4300055      | BRACKET               |               | 1    | OPTION C - USE X-8-690 CAPSCREWS                                   |                         |
| 9    | 4300056      | BRACKET               |               | 1    | OPTION B - USE 2 PCS 4300051 AND X-8-6103 CAPSCREWS W/THIS BRACKET |                         |
| 10   | 4300053      | CLAMP                 |               | 1    |                                                                    |                         |
| 11   | 4300092      | -U- BOLT              |               | 1    |                                                                    |                         |
| 12   | X-8-6100     | CAPSCREW              |               | 1    | 3/8"-16X4-1/8"                                                     |                         |
| 13   | X-8-647      | CAPSCREW              |               | 9    | 3/8"-16X4-3/4"                                                     |                         |
| 15   | 4301116      | GASKET                |               | 1    |                                                                    |                         |
| 16   | 7935         | BREATHER              |               | 1    |                                                                    |                         |
| 17   | 9332         | BUSHING               |               | 1    |                                                                    |                         |
| 18   | X-12-405     | PIPE PLUG             |               | 1    |                                                                    |                         |

| Item | Current Part | Description | Replaced Part | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|-------------|---------------|------|----------------|-------------------------|
| 19   | X-8-615      | CAPSCREW    |               | 2    | 3/8"-16X4-1/4" |                         |

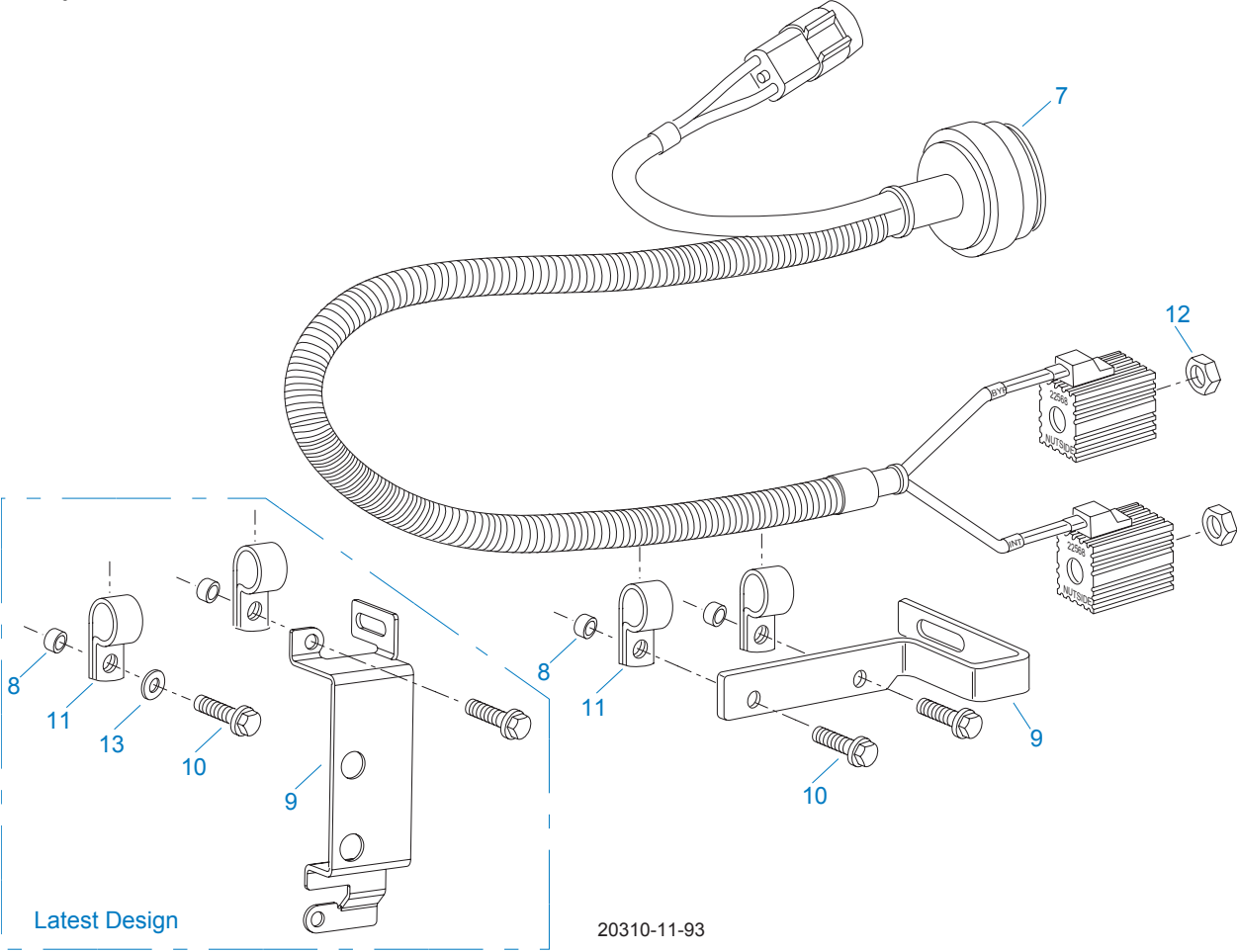


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NSS – Not Sold Separately

FILTER REGULATOR

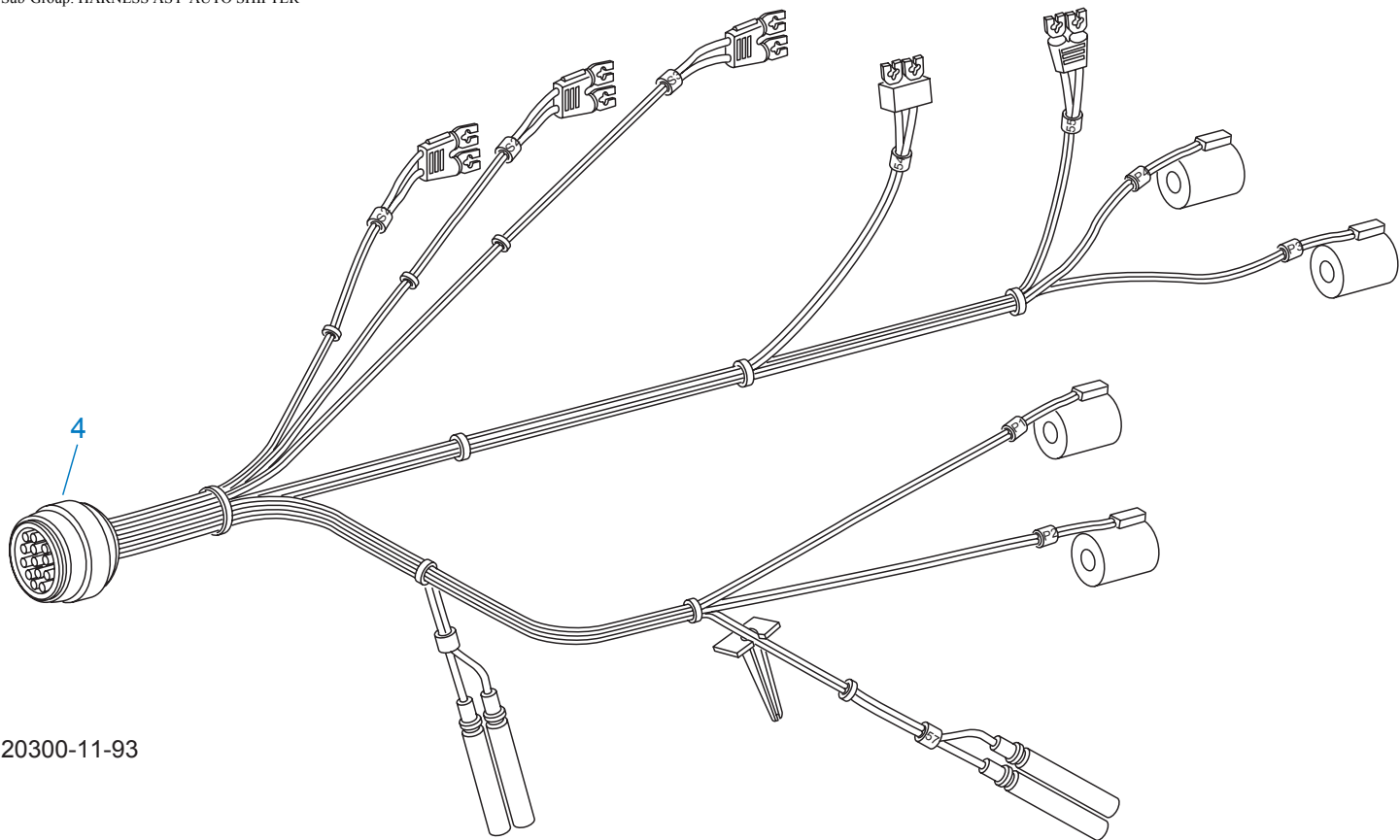
| Item | Current Part | Description           | Replaced Part | Qty. | Notes                | Kits/Assys Where Needed |
|------|--------------|-----------------------|---------------|------|----------------------|-------------------------|
| 2    | K-1698       | -O- RING/ELEMENT KIT  |               | 1    | FOR FILTER REGULATOR |                         |
| 5    | 23607        | ELBOW                 |               | 1    |                      |                         |
| 6    | X-12-208     | PIPE PLUG             |               | 2    | 1/8" NPT             |                         |
| 7    | 12880        | ELBOW                 |               | 1    | 1/8"                 |                         |
| 8    | 15114        | -O- RING              |               | 2    |                      | K-2301                  |
| 9    | A-5373       | FILTER REGULATOR ASSY | 22677         | 1    | 77 - 82 PSI          | K-2301                  |
| 10   | X-3-400      | LOCKWASHER            |               | 2    | 1/4"                 |                         |
| 11   | X-8-440      | SCREW                 |               | 2    | 1/4"-20X2-1/4"       |                         |



HARNESSES & HARDWARE

HARNESS ASSY-TORQUE CONV

| Item | Current Part | Description  | Replaced Part    | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|--------------|------------------|------|----------------|-------------------------|
| 7    | A-5519       | HARNESS ASSY |                  | 1    |                |                         |
| 8    | 4300689      | SPACER       |                  | 2    |                |                         |
| 9    | K-3201       | BRACKET KIT  | 4300625 ,4303346 | 1    |                |                         |
| 10   | X-8L-681     | CAPSCREW     |                  | 2    | 3/8"-16X2-3/4" |                         |
| 11   | 11665        | CLAMP        |                  | 2    |                |                         |
| 12   | X-1-809      | JAM NUT      |                  | 2    | 1/2"-20        |                         |
| 13   | X-10-605     | WASHER       |                  | 1    | 3/8"           |                         |
| 14   | K-3201       | BRACKET KIT  | 4300625 ,4303346 | 1    |                |                         |



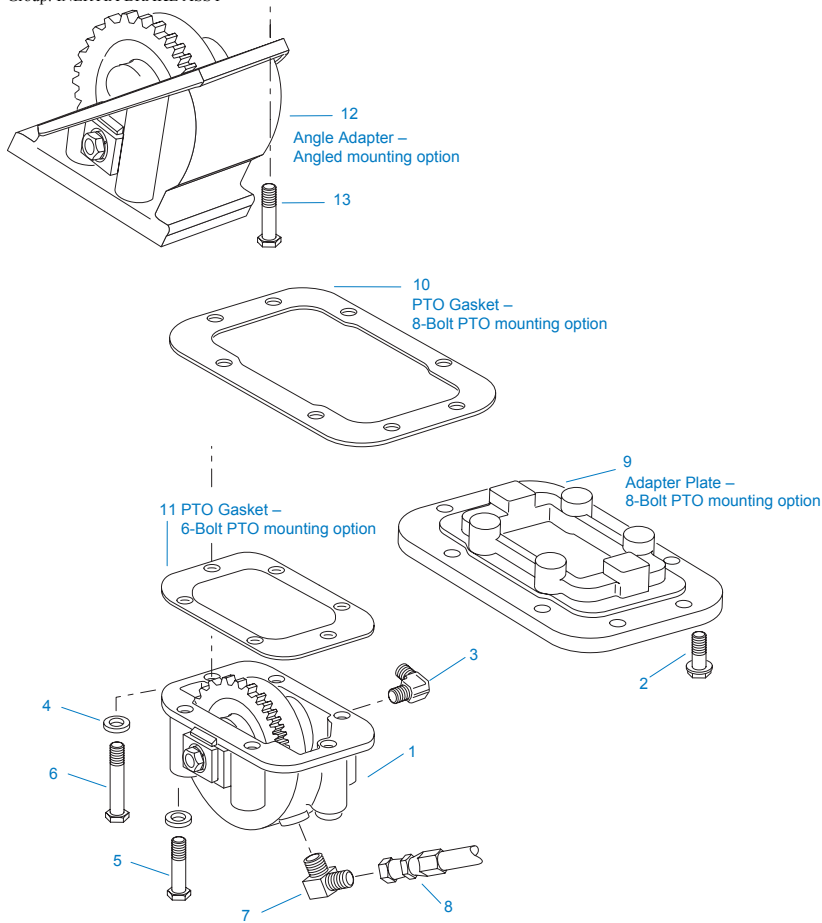
20300-11-93

**HARNESES & HARDWARE**

**HARNESS ASY-AUTO SHIFTER**

| Item | Current Part | Description      | Replaced Part      | Qty. | Notes | Kits/Assys Where Needed |
|------|--------------|------------------|--------------------|------|-------|-------------------------|
| 4    | K-2981       | AUTO SHIFTER KIT | A - 5518 ,K - 2384 | 1    |       |                         |

Group: INERTIA BRAKE ASSY

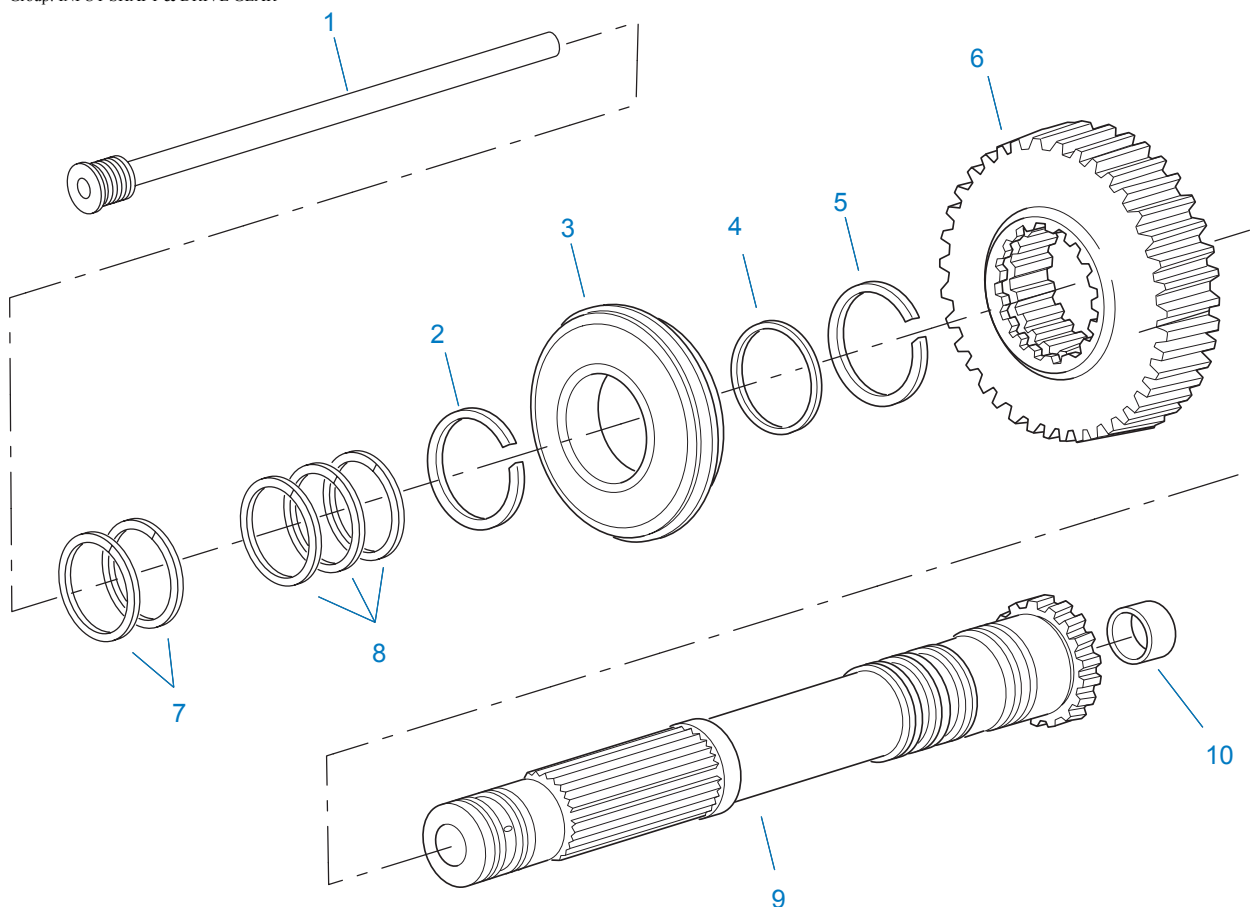


Note: Three mounting options are available for Inertia Brake – See Parts Listing for more information.  
20425-11-93

## INERTIA BRAKE ASSY

| Item | Current Part | Description       | Replaced Part      | Qty. | Notes                   | Kits/Assys Where Needed                                 |
|------|--------------|-------------------|--------------------|------|-------------------------|---------------------------------------------------------|
| 1    | K-2906       | INERTIA BRAKE KIT | A - 6200 ,A - 6437 | 1    |                         |                                                         |
| 2    | X-8L-722     | CAPSCREW          | X 8L 721           | 8    | 7/16"-14X1-1/4"         |                                                         |
| 3    | 12845        | ELBOW             |                    | 1    | 1/8"                    |                                                         |
| 4    | 23473        | WASHER            |                    | 6    |                         | K-2385,K-2633,K-2906,K-2980,K-2981,K-2982,K-2983,S-1876 |
| 5    | X-8-636      | SCREW             |                    | 4    | 3/8"-16X3-3/4"          |                                                         |
| 6    | X-8-624      | CAPSCREW          |                    | 2    | 3/8"-16X4"              |                                                         |
| 7    | 22424        | ELBOW             |                    | 1    | 90 DEGREE               | K-2621,K-2642,K-2643,K-2644                             |
| 7    | 23486        | CONNECTOR         |                    | 1    | STRAIGHT                | K-2621,K-2642,K-2643                                    |
| 8    | 22427        | HOSE ASSY         |                    | 1    | 6 BOLT POSITION         | K-2621,K-2643                                           |
| 8    | 4302098      | HOSE ASSY         |                    | 1    | 8 BOLT POSITION         | K-2644                                                  |
| 8    | 4302099      | HOSE ASSY         |                    | 1    | ROTATED 6 BOLT POSITION | K-2642                                                  |
| 9    | 18471        | ADAPTER PLATE     |                    | 1    | 8 BOLT POSITION         |                                                         |
| 10   | 4305310      | GASKET            | 4302810            | 1    |                         | K-2172                                                  |
| 11   | 4305309      | GASKET            | 1684               | 1    |                         | K-2172,K-2388,K-2906                                    |
| 12   | 4302464      | ANGLE ADAPTER     |                    | 1    | ROTATED 6 BOLT POSITION |                                                         |
| 13   | X-8L-604     | CAPSCREW          |                    | 6    | 3/8"-16X1-1/4"          |                                                         |

Group: INPUT SHAFT & DRIVE GEAR



20465-11-93

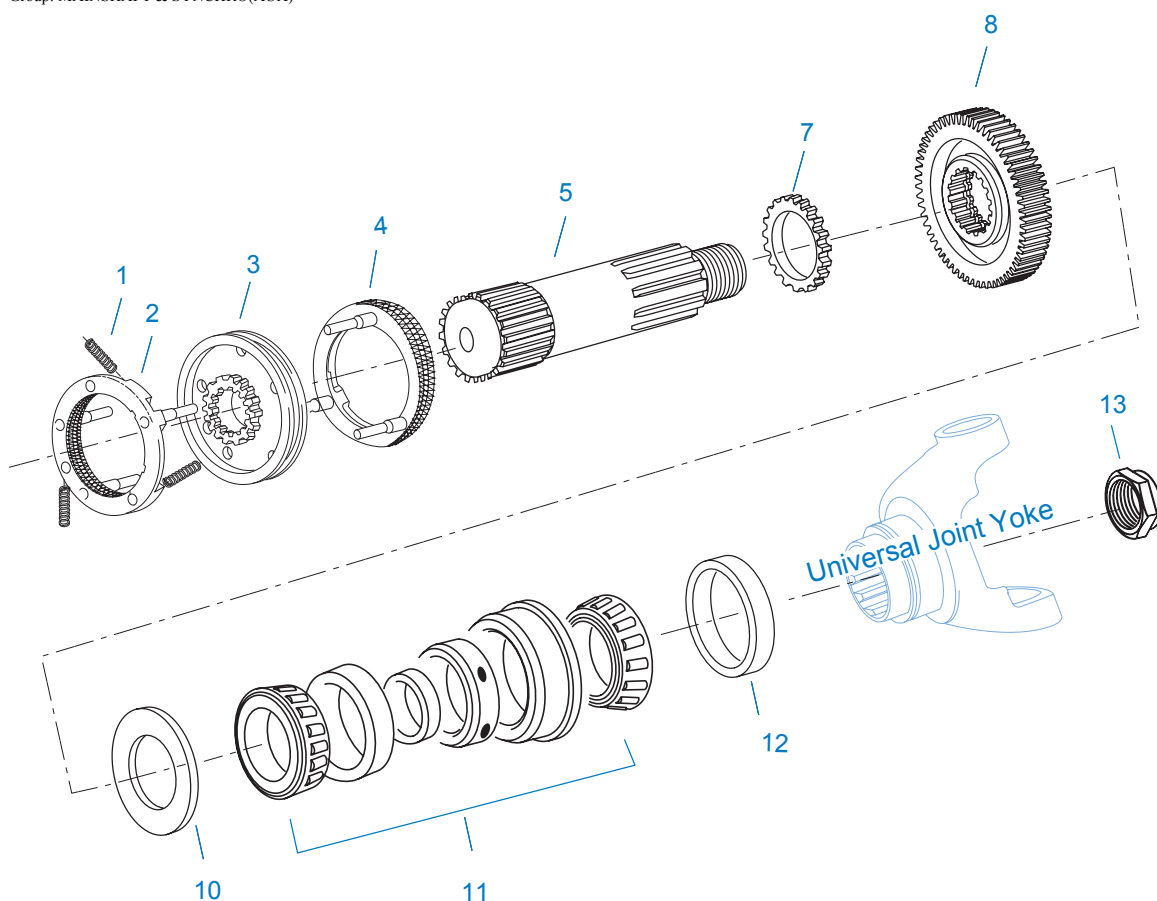
## INPUT SHAFT & DRIVE GEAR

| Item | Current Part | Description          | Replaced Part  | Qty. | Notes | Kits/Assys Where Needed                          |
|------|--------------|----------------------|----------------|------|-------|--------------------------------------------------|
| 1    | 23402        | INPUT SHAFT OIL TUBE |                | 1    |       | S-1670                                           |
| 2    | 16980        | SNAP RING            |                | 1    |       | K-2775,K-2776,K-2777,K-2830                      |
| 3    | 81504        | BEARING              |                | 1    |       | K-2289,K-2290,K-2775,K-2776,K-2777               |
| 4    | 16463        | SPACER               |                | 1    |       |                                                  |
| 5    | 14750        | SNAP RING            |                | 1    |       | K-2289,K-2290,K-2775,K-2776,K-2777,K-2829,K-2830 |
| 6    | 19239        | DRIVE GEAR           | 21019 ,4302458 | 1    |       |                                                  |
| 7    | 22428        | PISTON RING          |                | 2    |       | K-2398,K-2504,K-2990                             |
| 8    | 23438        | PISTON RING          |                | 3    |       | K-2398,K-2504                                    |
| 9    | S-1670       | INPUT SHAFT ASSY     | 23395          | 1    |       | K-2391,K-2775,K-2776,K-2777                      |
| 10   | 20171        | BUSHING              |                | 1    |       | K-2289,K-2290,S-1670                             |

## 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-2172       | GASKET KIT               |                    | 1    |                        | K-2289,K-2290,K-2775,K-2776,K-2777   |
|      | K-2262       | OIL SEAL W/SLINGER       | 19109 20807 20808  | 1    | "FOR MECHANICAL COVER" | K-2289,K-2290,K-2775,K-2776,K-2777   |
|      | K-2289       | BASIC REBUILD KIT        |                    | 1    | ATE                    |                                      |
|      | K-2290       | BASIC REBUILD KIT        |                    | 1    | ATR                    |                                      |
|      | K-2301       | FILTER REGULATOR KIT     |                    | 1    |                        |                                      |
|      | K-2314       | OIL FILTER KIT           |                    | 1    |                        | K-2990                               |
|      | K-2385       | AUTO-SHIFTER KIT         |                    | 1    |                        |                                      |
|      | K-2387R      | REMAN HYDRA VALVE KIT    | K - 2387 ,K - 3085 | 1    |                        |                                      |
|      | K-2388       | CONVERTER HOUSING KIT    | 4300323 ,4300377   | 1    |                        |                                      |
|      | K-2390       | STATOR SUPPORT KIT       |                    | 1    |                        |                                      |
|      | K-2391       | INPUT SHAFT KIT          |                    | 1    |                        |                                      |
|      | K-2392R      | REMAN PWR SYNCHRO KIT    | K - 3079           | 1    | B-RATIO-AT/ATS         |                                      |
|      | K-2397R      | REMAN PWR SYNCHRO KIT    | K - 3076           | 1    | A-RATIO-ATR            |                                      |
|      | K-2398       | CONVERTOR SEAL KIT       |                    | 1    |                        | K-2390,K-2391,K-2625,K-2646R,K-2647R |
|      | K-2400R      | REMAN PWR SYNCHRO KIT    | K - 3077           | 1    | B-RATIO-ATR            |                                      |
|      | K-2403       | OIL PAN RETRO KIT        |                    | 1    | STANDARD               |                                      |
|      | K-2439       | KEY & WASHER KIT         |                    | 1    | CONTAINS 3-SIDED KEY   |                                      |
|      | K-2504       | OIL PUMP KIT             |                    | 1    |                        |                                      |
|      | K-2621       | POWER SYNCO LUBE KIT     |                    | 1    |                        |                                      |
|      | K-2625       | #1 CONVERTER HSG KIT     |                    | 1    |                        |                                      |
|      | K-2630       | REPL KIT-DRIVE GEAR      | 4300548            | 1    | B-RATIO                |                                      |
|      | K-2632       | ENG SPEED SENSOR KIT     | 22569              | 1    |                        |                                      |
|      | K-2633       | BALL SWITCH KIT          |                    | 1    |                        |                                      |
|      | K-2642       | 6 BOLT ROTATED LINE KIT  |                    | 1    |                        |                                      |
|      | K-2643       | 6 BOLT OIL LINE KIT      |                    | 1    |                        |                                      |
|      | K-2644       | 8 BOLT OIL LINE KIT      |                    | 1    |                        |                                      |
|      | K-2646R      | REMAN 16-D CNVTR KIT     | K - 3083           | 1    |                        |                                      |
|      | K-2647R      | REMAN 16-C CNVTR KIT     | K - 3082           | 1    |                        |                                      |
|      | K-2754       | SHIFT BAR HSG ASSY       | 22596              | 1    | HOUSING ONLY           |                                      |
|      | K-2775       | BASIC OVERHAUL KIT       |                    | 1    | AT/ATS                 |                                      |
|      | K-2776       | BASIC OVERHAUL KIT       |                    | 1    | ATE                    |                                      |
|      | K-2777       | BASIC OVERHAUL KIT       |                    | 1    | ATR                    |                                      |
|      | K-2781R      | REMAN PWR SYNCHRO KIT    | K - 3078           | 1    | A-RATIO-AT/ATS         |                                      |
|      | K-2802       | -O- RING KIT-RANGE       |                    | 1    |                        | K-2289,K-2290,K-2775,K-2776,K-2777   |
|      | K-2829       | SMALL PARTS KIT          |                    | 1    | ATR                    |                                      |
|      | K-2830       | SMALL PARTS KIT          |                    | 1    | AT/ATS/ATE             |                                      |
|      | K-2831       | CYLINDER KIT-RANGE       |                    | 1    |                        |                                      |
|      | K-2874       | THROTTLE SENSOR KIT      | K - 2325           | 1    | 45" CABLE              |                                      |
|      | K-2875       | THROTTLE SENSOR KIT      | K - 2505           | 1    | 60" CABLE              |                                      |
|      | K-2876       | THROTTLE SENSOR KIT      | K - 2324           | 1    | 30" CABLE              |                                      |
|      | K-2877       | SUMP TUBE RETURN KIT     | K - 2620           | 1    |                        |                                      |
|      | K-2911       | OIL PUMP KIT             | 4300747 ,4302714   | 1    |                        |                                      |
|      | K-2914       | OIL PAN RETRO KIT        |                    | 1    | LOW PROFILE            |                                      |
|      | K-2915       | OIL PAN RETRO KIT        |                    | 1    | OFFSET                 |                                      |
|      | K-2934       | COUNTERSHAFT REPL KIT    | 19549              | 1    |                        |                                      |
|      | K-2980       | SENSOR UPDATE KIT        | 22567 ,K - 2631    | 1    |                        |                                      |
|      | K-2981       | AUTO-SHIFTER HARNESS KI  | A - 5518 ,K - 2384 | 1    |                        |                                      |
|      | K-2982       | AUTO-SHIFTER HARNESS KIT | K - 2396           | 1    | 24 VOLT                |                                      |
|      | K-2983       | AUTO SHIFTER KIT         | A - 5517 ,K - 2635 | 1    |                        |                                      |
|      | K-2983R      | REMAN AUTOSHIFTER KIT    | K - 3080           | 1    |                        |                                      |
|      | K-2990       | 16" CONV. REBUILD KIT    |                    | 1    |                        |                                      |
|      | K-3651       | OIL SEAL TOOL KIT        |                    | 1    |                        |                                      |

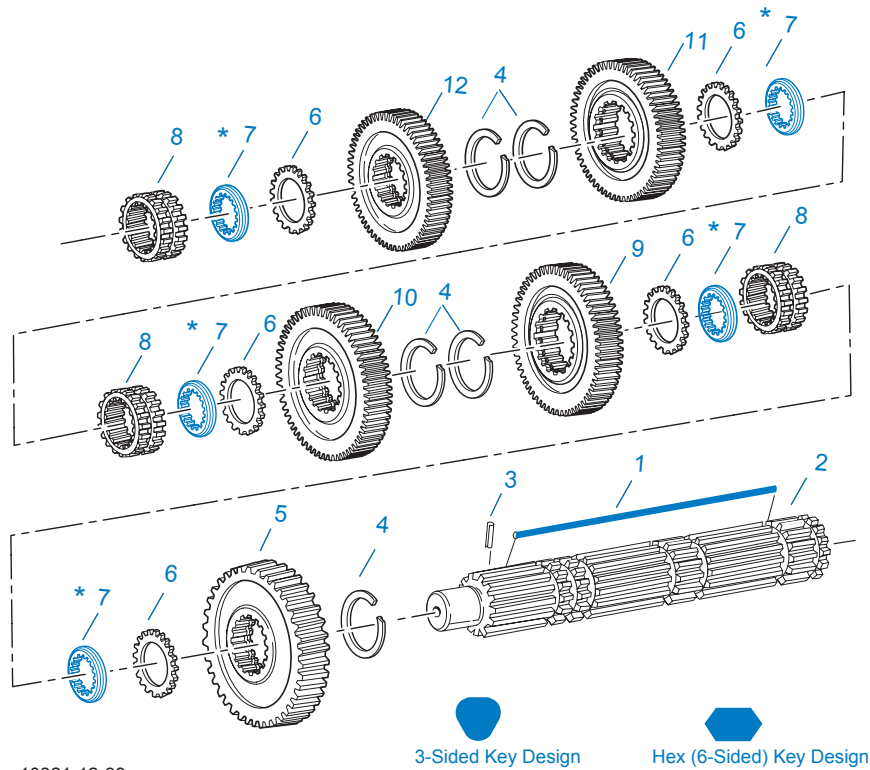
| Item | Current Part | Description            | Replaced Part                                     | Qty. | Notes          | Kits/Assys Where Needed            |
|------|--------------|------------------------|---------------------------------------------------|------|----------------|------------------------------------|
|      | K-3783       | COUNTERSHAFT REPL KIT  | 20804 ,22411, 4301054, K-2935                     | 1    |                |                                    |
|      | S-1670       | INPUT SHAFT ASSY       | 23395                                             | 1    |                | K-2391,K-2775,K-2776,K-2777 K-2390 |
|      | S-1676       | STATOR SUPPORT ASSY    | 23397                                             | 1    |                |                                    |
|      | S-1785       | CASE ASSY              | 23583                                             | 1    |                |                                    |
|      | S-1876       | SHIFT BAR HSG ASSY     | 22596                                             | 1    | COMPLETE       |                                    |
|      | S-2015       | CONVERTER HOUSING ASSY |                                                   | 1    |                |                                    |
|      | S-2113       | REAR BRG COVER ASSY    | 4302027                                           | 1    | AT-ATS         |                                    |
|      | S-2119       | REAR BRG COVER ASSY    | 20048 ,22045 ,4302009 ,4302031 ,S - 1558 S - 1560 | 1    | ATE            |                                    |
|      | S-2181       | RANGE SECTION ASSY     |                                                   | 1    | A-RATIO/AT-ATS |                                    |
|      | S-2183       | RANGE SECTION ASSY     |                                                   | 1    | B-RATIO/AT-ATS |                                    |
|      | S-2369       | OIL PAN COVER ASSY     |                                                   | 1    | LOW PROFILE    | K-2914                             |
|      | S-2370       | OIL PAN ASSY           |                                                   | 1    | OFFSET         | K-2915                             |
|      | S-2688       | MAINSHAFT ASSY         | 4303404 ,4303913                                  | 1    |                |                                    |



20530-11-93

**MAINSHAFT & SYNCHRO(AUX)**

| Item | Current Part | Description           | Replaced Part              | Qty. | Notes    | Kits/Assys Where Needed                          |
|------|--------------|-----------------------|----------------------------|------|----------|--------------------------------------------------|
| 1    | 14897        | SPRING                |                            | 3    |          | K-2289,K-2290,K-2775,K-2776,K-2777,K-2829,K-2830 |
| 2    | A-7331       | SYNCHRONIZER ASSY     | 4304396 ,4304397 ,A - 5917 | 1    | HI RANGE |                                                  |
| 3    | 22915        | SLIDING CLUTCH        |                            | 1    |          |                                                  |
| 4    | A-7254       | SYNCHRONIZER ASSEMBLY | A - 4937 ,A - 5876         | 1    | LO RANGE |                                                  |
| 5    | 19202        | MAINSHAFT             | 4302460                    | 1    |          |                                                  |
| 7    | 19203        | SPACER                |                            | 1    |          |                                                  |
| 8    | 23410        | REDUCTION GEAR        | 23556                      | 1    |          |                                                  |
| 10   | 16772        | WASHER                |                            | 1    |          | K-2830                                           |
| 11   | 15260        | BEARING               |                            | 1    |          | K-2289,K-2775,K-2776                             |
| 12   | 20191        | ROTOR                 | 16295                      | 1    |          |                                                  |
| 13   | 22254        | NUT                   | 11956                      | 1    |          |                                                  |



\* Updating to 3-Sided Key is Recommended.

When Updating to 3-Sided Key Replace all Washers to Match Key Design

Always Use Matching Key and Washer Sets (See Appendix - Mainshaft Washers)

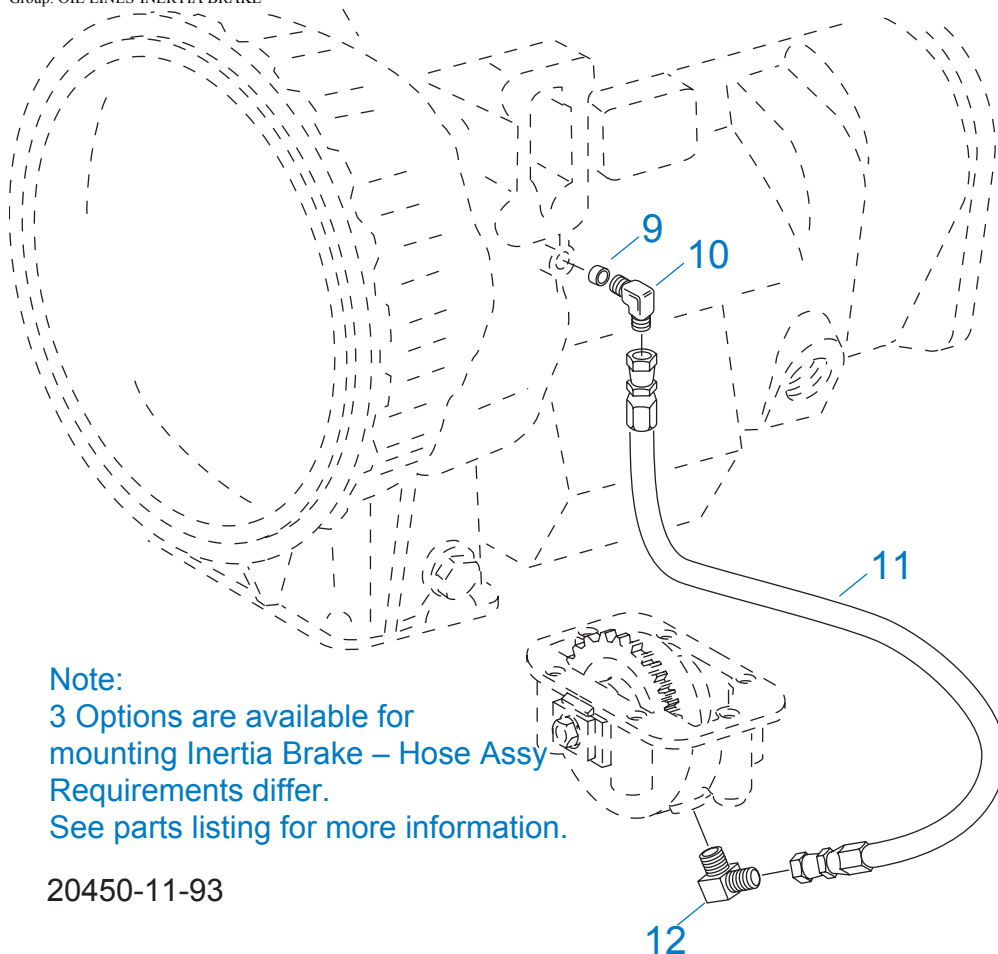
## MAINSHAFT ASSY

| Item | Current Part | Description            | Replaced Part    | Qty. | Notes                                                                       | Kits/Assys Where Needed                          |
|------|--------------|------------------------|------------------|------|-----------------------------------------------------------------------------|--------------------------------------------------|
| 1    | 4304615      | 3-SIDED KEY            | 4300120          | 1    |                                                                             | K-2439,K-2830                                    |
| 1    | K-2439       | KEY & WASHER KIT       |                  | 1    | CONTAINS 3-SIDED KEY                                                        |                                                  |
| 2    | S-2688       | MAINSHAFT ASSY         | 4303404 ,4303913 | 1    |                                                                             |                                                  |
| 3    | 62504        | ROLL PIN               |                  | 1    |                                                                             | S-2688                                           |
| 4    | 14750        | SNAP RING              |                  | 5    |                                                                             | K-2289,K-2290,K-2775,K-2776,K-2777,K-2829,K-2830 |
| 5    | 16756        | REVERSE GEAR-MAINSHAFT | 22408            | 1    |                                                                             |                                                  |
| 6    | 14749        | SPACER                 |                  | 4    |                                                                             | K-2829,K-2830                                    |
| 7    | 4300382      | WASHER .249-WHITE      |                  | 5    |                                                                             | K-2439,K-2829,K-2830                             |
| 7    | 4300383      | WASHER .254-GREEN      |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY | K-2439,K-2829,K-2830                             |
| 7    | 4300384      | WASHER .259-ORANGE     |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY | K-2439,K-2829,K-2830                             |
| 7    | 4300385      | WASHER .264-PURPLE     |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY |                                                  |
| 7    | 4300386      | WASHER .269-YELLOW     |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY |                                                  |
| 7    | 4300387      | WASHER .274-BLACK      |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY |                                                  |
| 7    | 4300830      | WASHER .244-BLUE       |                  | 5    | OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY | K-2439,K-2829,K-2830                             |
| 8    | 22412        | SLIDING CLUTCH         |                  | 3    |                                                                             | K-2775,K-2776,K-2777                             |
| 9    | 16754        | LO GEAR-MAINSHAFT      |                  | 1    |                                                                             |                                                  |
| 10   | 21024        | 1ST GEAR-MAINSHAFT     | 19628            | 1    |                                                                             |                                                  |

| Item | Current Part | Description        | Replaced Part  | Qty. | Notes | Kits/Assys Where Needed |
|------|--------------|--------------------|----------------|------|-------|-------------------------|
| 11   | 19622        | 2ND GEAR-MAINSHAFT | 21263 ,4300246 | 1    |       |                         |
| 12   | 21261        | OD GEAR-MAINSHAFT  | 19638          | 1    |       |                         |

## MISCELLANEOUS

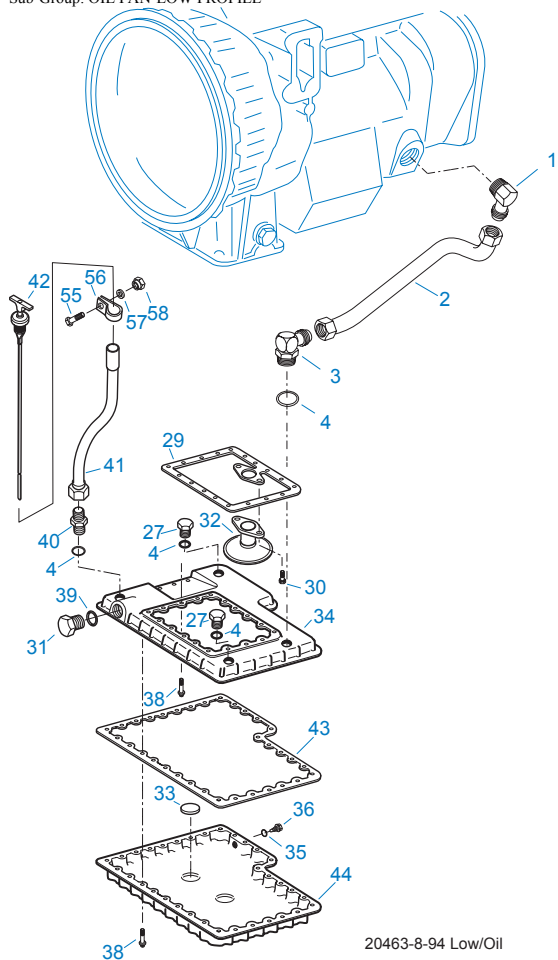
| Item | Current Part | Description         | Replaced Part | Qty. | Notes                            | Kits/Assys Where Needed                   |
|------|--------------|---------------------|---------------|------|----------------------------------|-------------------------------------------|
|      | 4301065      | SHIFT DIAGRAM LABEL |               | 1    | 5 POS REVERSE FORWARD            |                                           |
|      | 4301066      | SHIFT DIAGRAM LABEL |               | 1    | 5 POS REVERSE REARWARD           |                                           |
|      | 4301067      | SHIFT DIAGRAM LABEL |               | 1    | 6 POS REVERSE FORWARD            |                                           |
|      | 4301068      | SHIFT DIAGRAM LABEL |               | 1    | 6 POS REVERSE REARWARD           |                                           |
|      | 4301120      | SHIFT DIAGRAM LABEL |               | 1    | 7 POS REVERSE FORWARD            |                                           |
|      | 4301121      | SHIFT DIAGRAM LABEL |               | 1    | 7 POS REVERSE REARWARD           |                                           |
|      | 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-2314,K-2775,K-2776,K-2777,K-2980,K-2990 |
|      | 71206        | SILICONE LUBE       |               | 1    | 4 CC (SINGLE APPLICATION SIZE)   | K-2314,K-2802,K-2831                      |



## OIL LINES-INERTIA BRAKE

| Item | Current Part | Description    | Replaced Part | Qty. | Notes                   | Kits/Assys Where Needed     |
|------|--------------|----------------|---------------|------|-------------------------|-----------------------------|
| 9    | 22627        | OIL RESTRICTOR |               | 1    |                         | K-2621,K-2642,K-2643,K-2644 |
| 10   | 4302077      | ELBOW          |               | 1    |                         |                             |
| 11   | 22427        | HOSE ASSY      |               | 1    | 6 BOLT POSITION         | K-2621,K-2643               |
| 11   | 4302098      | HOSE ASSY      |               | 1    | 8 BOLT POSITION         | K-2644                      |
| 11   | 4302099      | HOSE ASSY      |               | 1    | ROTATED 6 BOLT POSITION | K-2642                      |
| 12   | 22424        | ELBOW          |               | 1    | 90 DEGREE               | K-2621,K-2642,K-2643,K-2644 |

Group: OIL PANS & OIL LINES  
Sub-Group: OIL PAN-LOW PROFILE

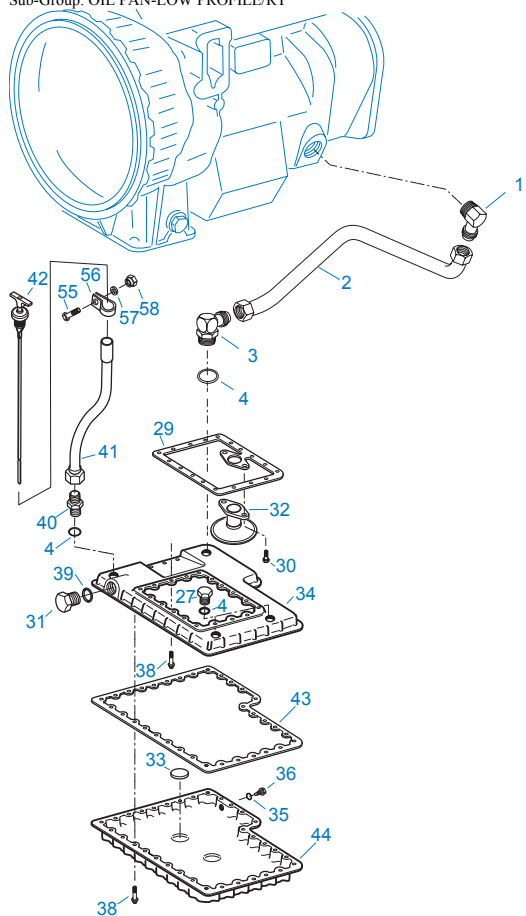


## OIL PANS & OIL LINES

### OIL PAN-LOW PROFILE

| Item | Current Part | Description         | Replaced Part | Qty. | Notes        | Kits/Assys Where Needed |
|------|--------------|---------------------|---------------|------|--------------|-------------------------|
| 1    | 4301100      | ELBOW               | 23597         | 1    |              |                         |
| 2    | 4302599      | SUMP RETURN TUBE LH |               | 1    |              |                         |
| 3    | 4302597      | ELBOW               |               | 1    | 90 DEGREES   |                         |
| 4    | 23109        | -O- RING            |               | 4    |              |                         |
| 27   | 22478        | PLUG                |               | 2    |              |                         |
| 29   | 22474        | GASKET              |               | 1    |              |                         |
| 30   | X-8C-500     | CAPSCREW            |               | 2    | 18X1-1/4"    |                         |
| 31   | 23028        | PLUG                |               | 1    |              |                         |
| 32   | 4302596      | OIL TRANSFER TUBE   |               | 1    |              |                         |
| 33   | 14373        | MAGNET              |               | 2    |              |                         |
| 34   | 4302591      | OIL PAN             |               | 1    |              |                         |
| 35   | 4300484      | WASHER              |               | 1    |              |                         |
| 36   | 4300438      | DRAIN PLUG          |               | 1    |              |                         |
| 38   | X-8C-550     | CAPSCREW            |               | 53   | 5/16"-18X1"  |                         |
| 39   | 23029        | -O- RING            |               | 1    |              |                         |
| 40   | 22431        | CONNECTOR           |               | 1    |              |                         |
| 41   | 5500511      | OIL FILL TUBE       |               | 1    | STANDARD     |                         |
| 42   | 5501028      | DIPSTICK            | 5501016       | 1    | STANDARD     |                         |
| 43   | 4302595      | OIL PAN GASKET      |               | 1    |              |                         |
| 44   | 4302593      | OIL COVER           |               | 1    |              |                         |
| 55   | X-8-601      | CAPSCREW            |               | 1    | 3/8"-16X3/4" |                         |
| 56   | 4300626      | CLAMP               |               | 1    |              |                         |
| 57   | X-10-605     | WASHER              |               | 1    | 3/8"         |                         |
| 58   | X-9-604      | NUT                 |               | 1    | 3/8"-16      |                         |

Group: OIL PANS & OIL LINES  
Sub-Group: OIL PAN-LOW PROFILE/RT

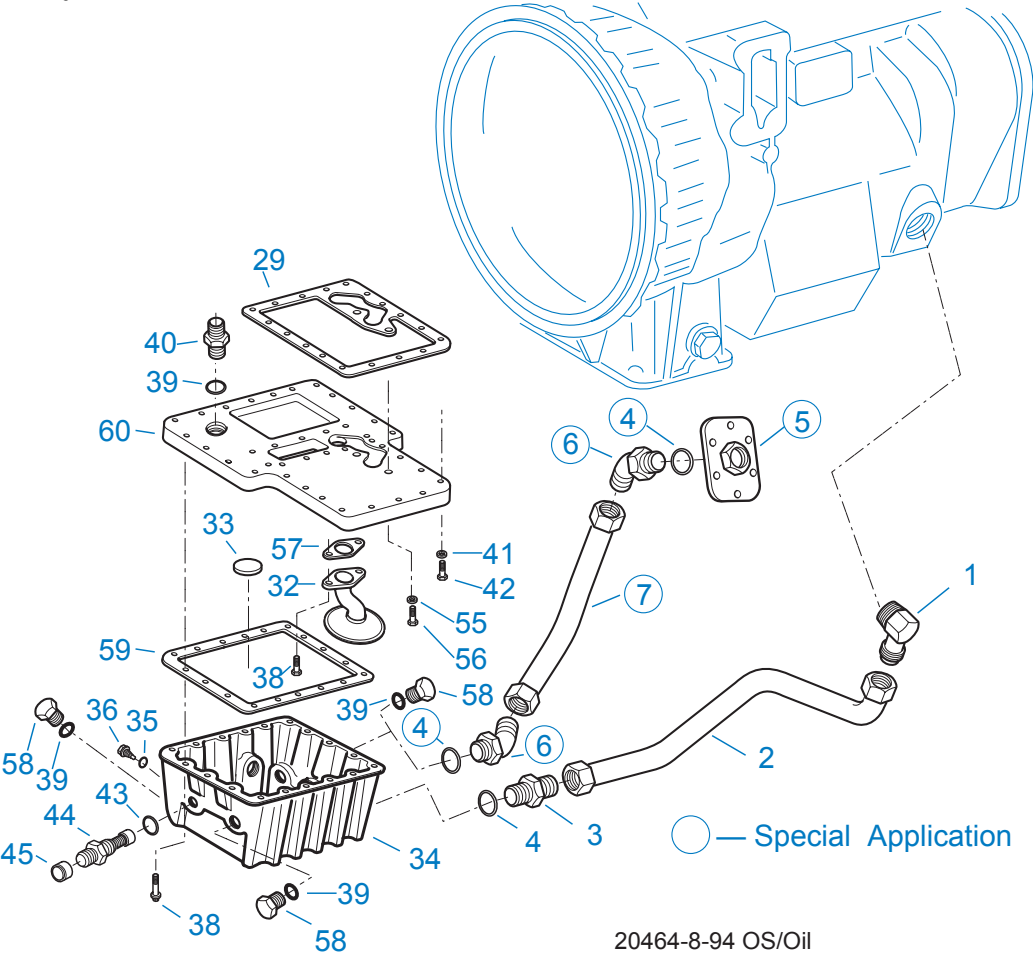


20462-8-94 Low/Rt

## OIL PANS & OIL LINES

### OIL PAN-LOW PROFILE/RT

| Item | Current Part | Description         | Replaced Part | Qty. | Notes        | Kits/Assys Where Needed |
|------|--------------|---------------------|---------------|------|--------------|-------------------------|
| 1    | 4301100      | ELBOW               | 23597         | 1    |              |                         |
| 2    | 4302598      | SUMP RETURN TUBE RH |               | 1    |              |                         |
| 3    | 22478        | PLUG                |               | 1    |              |                         |
| 4    | 23109        | -O- RING            |               | 4    |              |                         |
| 27   | 22478        | PLUG                |               | 2    |              |                         |
| 29   | 22474        | GASKET              |               | 1    |              |                         |
| 30   | X-8C-500     | CAPSCREW            |               | 2    | 18X1-1/4"    |                         |
| 31   | 23028        | PLUG                |               | 1    |              |                         |
| 32   | 4302596      | OIL TRANSFER TUBE   |               | 1    |              |                         |
| 33   | 14373        | MAGNET              |               | 2    |              |                         |
| 34   | 4302591      | OIL PAN             |               | 1    |              |                         |
| 35   | 4300484      | WASHER              |               | 1    |              |                         |
| 36   | 4300438      | DRAIN PLUG          |               | 1    |              |                         |
| 38   | X-8C-550     | CAPSCREW            |               | 53   | 5/16"-18X1"  |                         |
| 39   | 23029        | -O- RING            |               | 1    |              |                         |
| 40   | 22431        | CONNECTOR           |               | 1    |              |                         |
| 41   | 5500511      | OIL FILL TUBE       |               | 1    | STANDARD     |                         |
| 42   | 5501028      | DIPSTICK            | 5501016       | 1    | STANDARD     |                         |
| 43   | 4302595      | OIL PAN GASKET      |               | 1    |              |                         |
| 44   | 4302593      | OIL COVER           |               | 1    |              |                         |
| 55   | X-8-601      | CAPSCREW            |               | 1    | 3/8"-16X3/4" |                         |
| 56   | 4300626      | CLAMP               |               | 1    |              |                         |
| 57   | X-10-605     | WASHER              |               | 1    | 3/8"         |                         |
| 58   | X-9-604      | NUT                 |               | 1    | 3/8"-16      |                         |

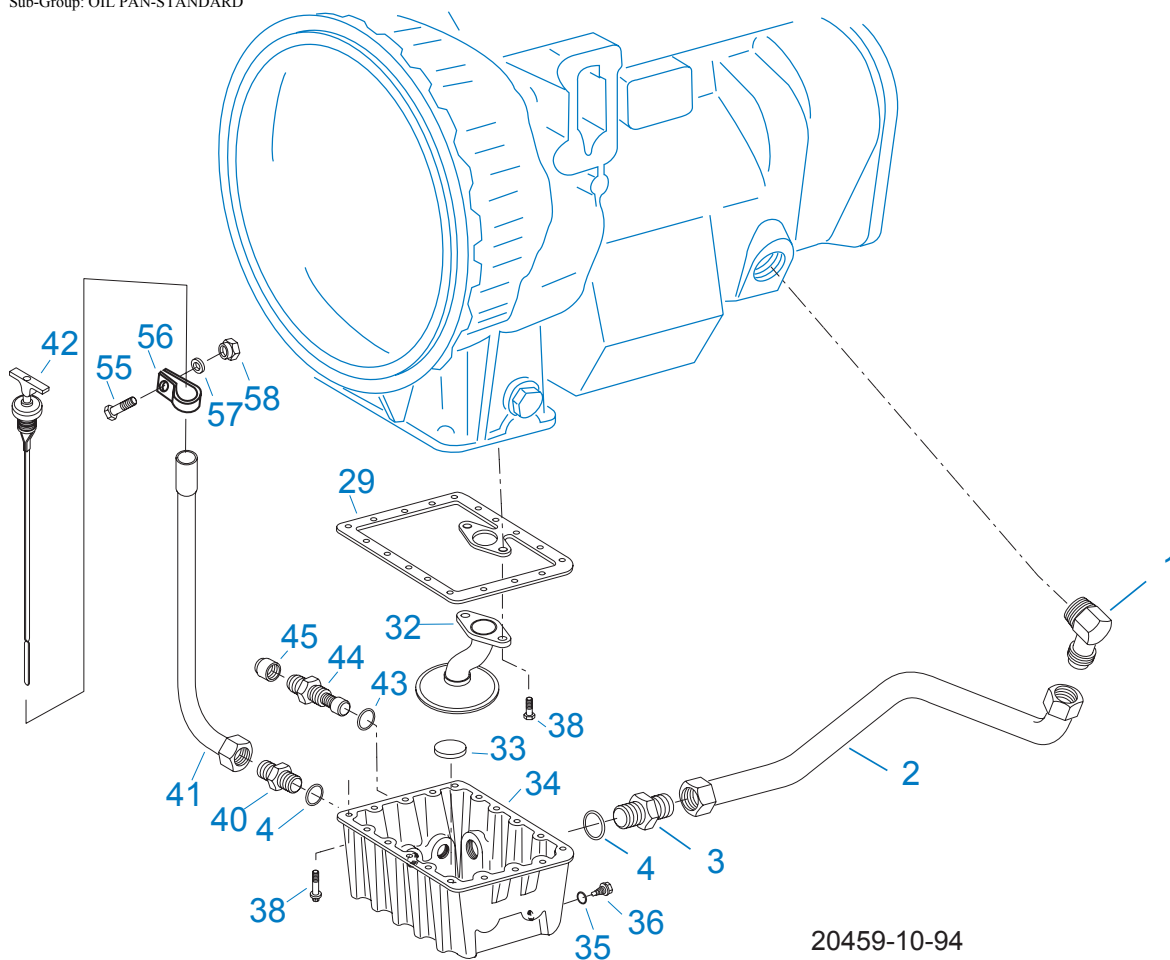


OIL PANS & OIL LINES

OIL PAN-OFFSET

| Item | Current Part | Description       | Replaced Part | Qty. | Notes                | Kits/Assys Where Needed |
|------|--------------|-------------------|---------------|------|----------------------|-------------------------|
| 1    | 4301100      | ELBOW             | 23597         | 1    |                      |                         |
| 2    | 4301101      | TUBE              | 23778         | 1    |                      |                         |
| 3    | 23596        | CONNECTOR         |               | 1    |                      |                         |
| 4    | 23109        | -O- RING          |               | 1    | QUANTITY AS REQUIRED |                         |
| 5    | 4301113      | COVER             |               | 1    |                      |                         |
| 6    | 22413        | ELBOW             |               | 2    |                      |                         |
| 7    | 4301112      | SIDE SLOPE TUBE   |               | 1    |                      |                         |
| 29   | 4301106      | GASKET            |               | 1    |                      |                         |
| 32   | 4301601      | OIL TRANSFER TUBE |               | 1    |                      |                         |
| 33   | 14373        | MAGNET            |               | 1    |                      |                         |
| 34   | 4301110      | OIL PAN           |               | 1    |                      |                         |
| 35   | 4300484      | WASHER            |               | 1    |                      |                         |
| 36   | 4300438      | DRAIN PLUG        |               | 1    |                      |                         |
| 38   | X-8C-550     | CAPSCREW          |               | 22   | 5/16"-18X1"          |                         |
| 39   | 23109        | -O- RING          |               | 4    |                      |                         |
| 40   | 22431        | CONNECTOR         |               | 1    |                      |                         |
| 41   | X-3-507      | CONICAL WASHER    |               | 20   | 5/16"                |                         |
| 42   | X-8L-540     | CAPSCREW          |               | 20   | 5/16"-18X1-7/8"      |                         |
| 43   | 23029        | -O- RING          |               | 1    |                      |                         |
| 44   | A-5754       | VALVE ASSY        |               | 1    |                      |                         |
| 45   | 4300452      | CAP               |               | 1    |                      |                         |
| 55   | 4301114      | SEALING WASHER    |               | 2    |                      |                         |
| 56   | X-8L-540     | CAPSCREW          |               | 2    | 5/16"-18X1-7/8"      |                         |
| 57   | 4301109      | GASKET            |               | 1    |                      |                         |
| 58   | 22478        | PLUG              |               | 3    |                      |                         |
| 59   | 4301108      | GASKET            |               | 1    |                      |                         |
| 60   | 4301107      | ADAPTER           |               | 1    |                      |                         |

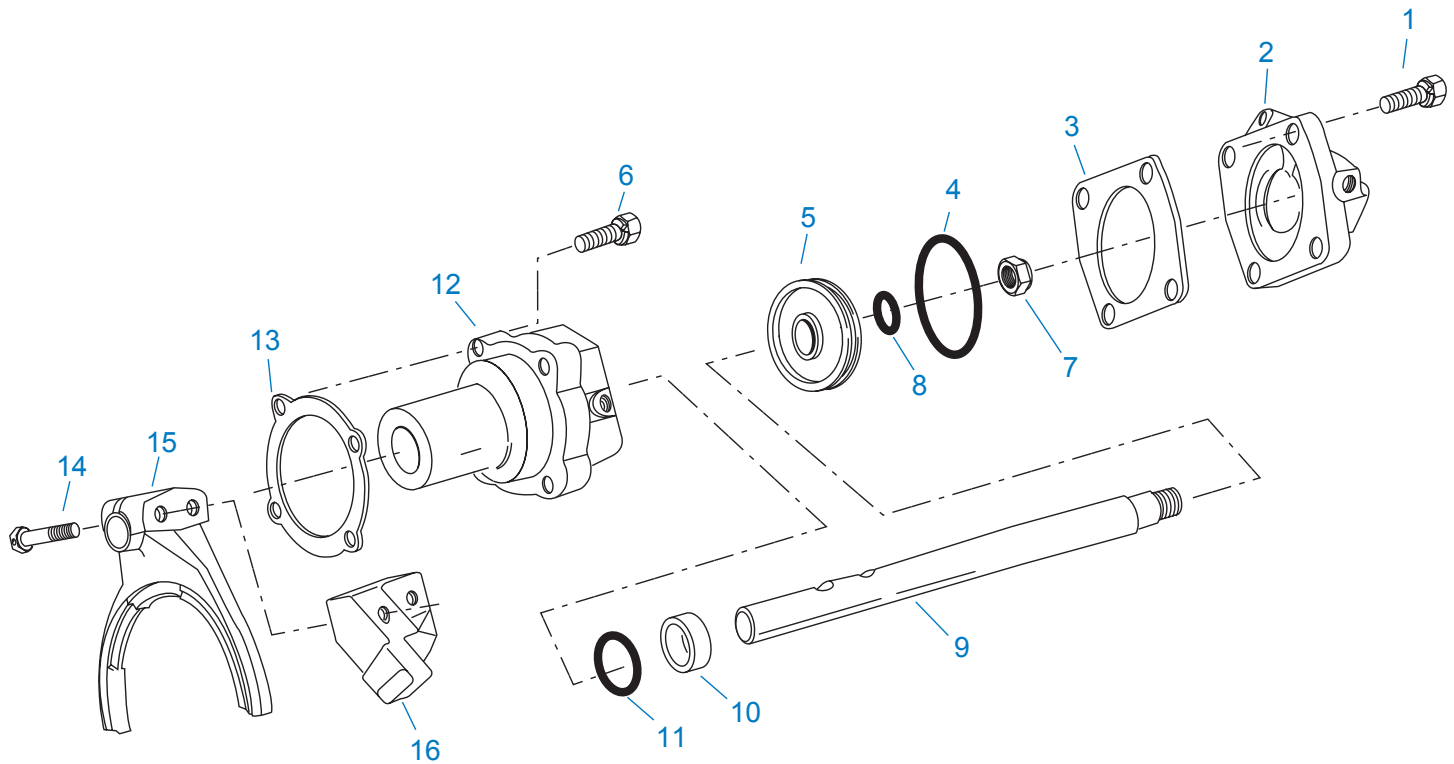




## OIL PANS & OIL LINES

### OIL PAN-STANDARD

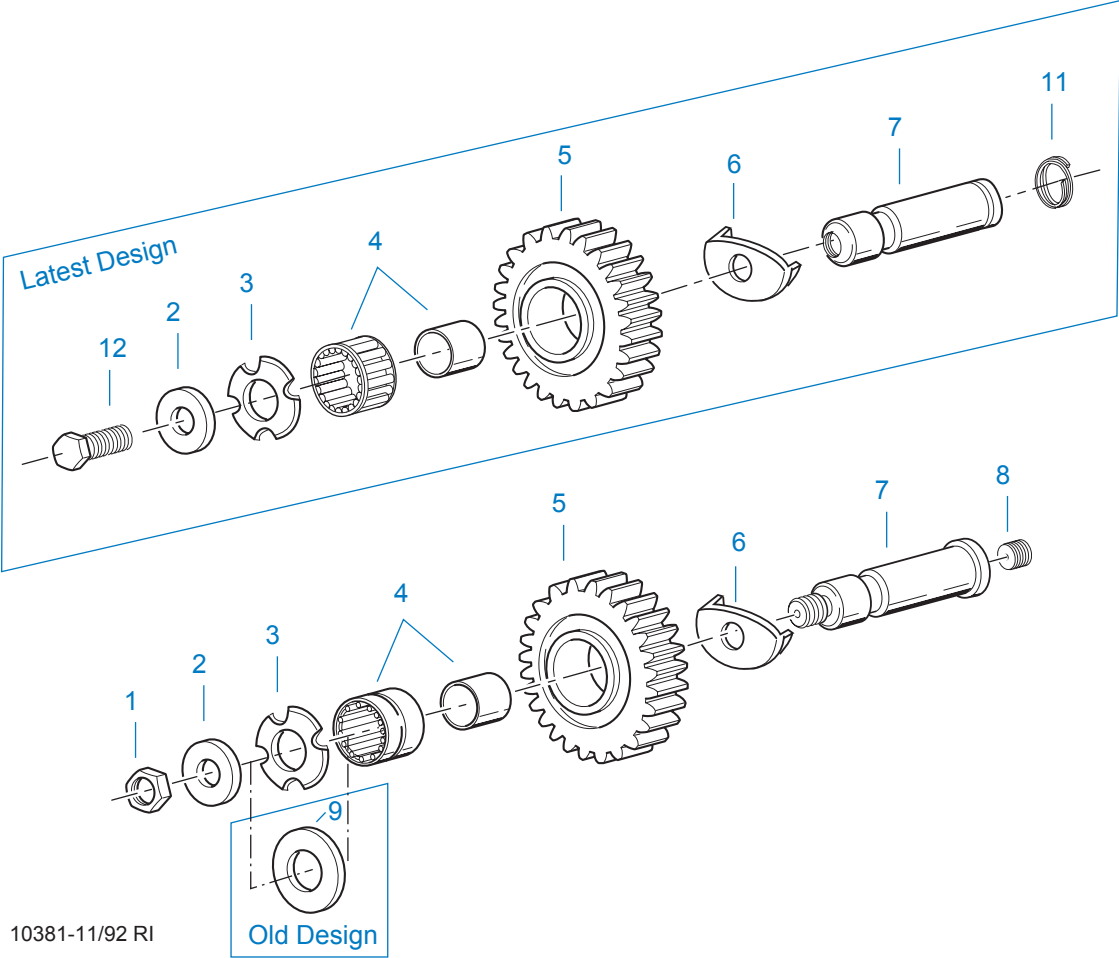
| Item | Current Part | Description       | Replaced Part | Qty. | Notes        | Kits/Assys Where Needed |
|------|--------------|-------------------|---------------|------|--------------|-------------------------|
| 1    | 4301100      | ELBOW             | 23597         | 1    |              |                         |
| 2    | 4301101      | TUBE              | 23778         | 1    |              |                         |
| 3    | 23596        | CONNECTOR         |               | 1    |              |                         |
| 4    | 23109        | -O- RING          |               | 2    |              |                         |
| 29   | 22474        | GASKET            |               | 1    |              |                         |
| 32   | 4301601      | OIL TRANSFER TUBE |               | 1    |              |                         |
| 33   | 14373        | MAGNET            |               | 1    |              |                         |
| 34   | 4300432      | OIL PAN           |               | 1    |              |                         |
| 35   | 4300484      | WASHER            |               | 1    |              |                         |
| 36   | 4300438      | DRAIN PLUG        |               | 1    |              |                         |
| 38   | X-8C-550     | CAPSCREW          |               | 22   | 5/16"-18X1"  |                         |
| 40   | 22431        | CONNECTOR         |               | 1    |              |                         |
| 41   | 5500503      | OIL FILL TUBE     |               | 1    | STANDARD     |                         |
| 42   | 5501021      | DIPSTICK          | 5501004       | 1    | STANDARD     |                         |
| 43   | 23029        | -O- RING          |               | 1    |              |                         |
| 44   | A-5754       | VALVE ASSY        |               | 1    |              |                         |
| 45   | 4300452      | CAP               |               | 1    |              |                         |
| 55   | X-8-601      | CAPSCREW          |               | 1    | 3/8"-16X3/4" |                         |
| 56   | 4300626      | CLAMP             |               | 1    |              |                         |
| 57   | X-10-605     | WASHER            |               | 1    | 3/8"         |                         |
| 58   | X-9-604      | NUT               |               | 1    | 3/8"-16      |                         |



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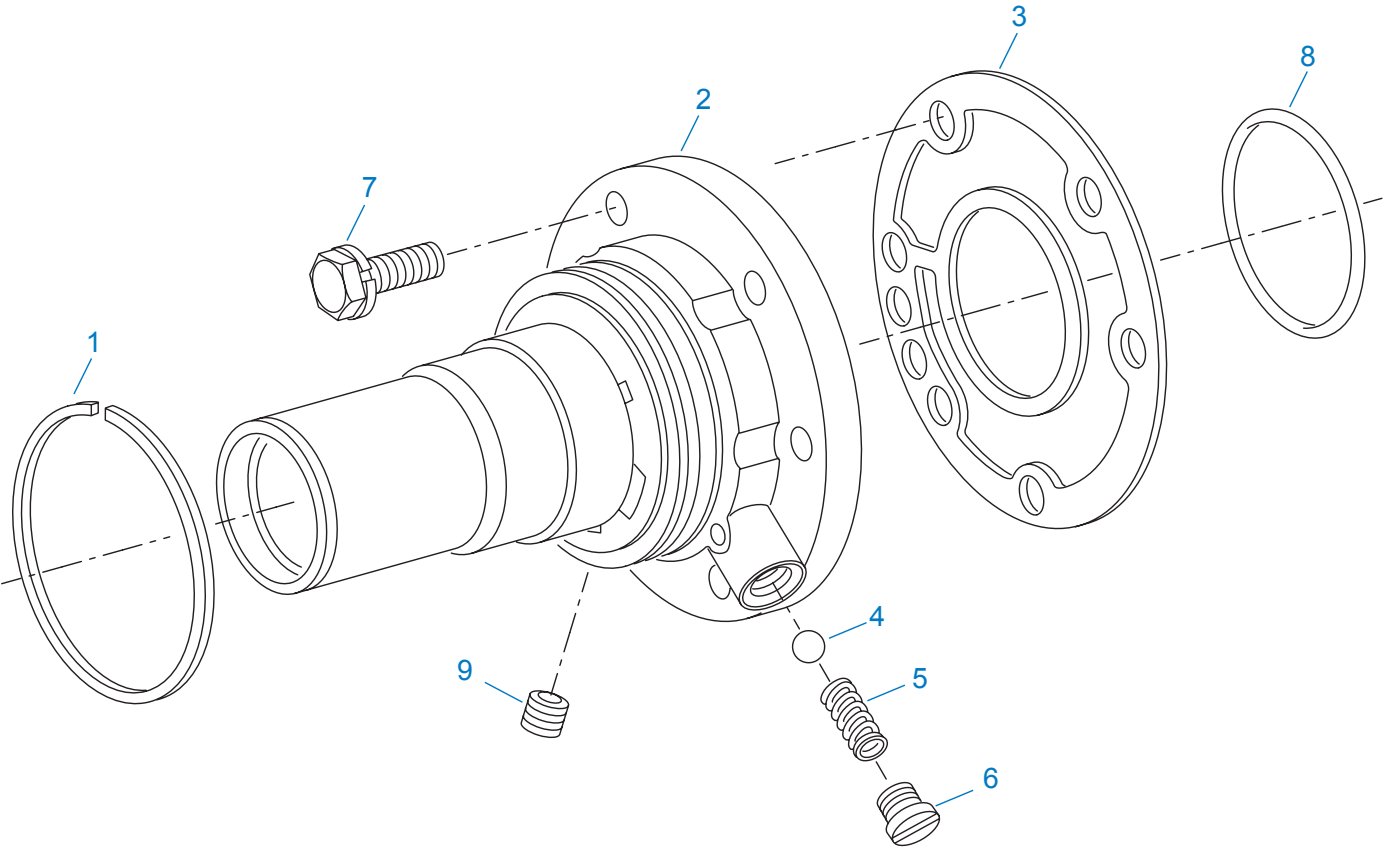
## RANGE CYLINDER

| Item | Current Part | Description         | Replaced Part | Qty. | Notes          | Kits/Assys Where Needed |
|------|--------------|---------------------|---------------|------|----------------|-------------------------|
| 1    | X-8L-604     | CAPSCREW            |               | 4    | 3/8"-16X1-1/4" |                         |
| 2    | 19690        | CYLINDER COVER      |               | 1    |                |                         |
| 3    | 14349        | GASKET              |               | 1    |                | K-2172,K-2802,K-2831    |
| 4    | 14344        | -O- RING            |               | 1    |                | K-2802,K-2831           |
| 5    | 14341        | PISTON              | 23353         | 1    |                | K-2831                  |
| 6    | X-8L-604     | CAPSCREW            |               | 4    | 3/8"-16X1-1/4" |                         |
| 7    | X-1-1010     | NUT                 |               | 1    | 5/8"-18        |                         |
| 8    | 14345        | -O- RING            |               | 1    |                | K-2802,K-2831           |
| 9    | 19652        | YOKE BAR            |               | 1    |                |                         |
| 10   | 22542        | BUSHING             |               | 1    |                | A-5371                  |
| 11   | 14765        | -O- RING            |               | 1    |                | K-2802,K-2831           |
| 12   | A-5371       | RANGE CYLINDER ASSY | 22543         | 1    |                | K-2831                  |
| 13   | 14347        | GASKET              |               | 1    |                | K-2172,K-2802,K-2831    |
| 14   | X-8-825      | CAPSCREW            |               | 2    | 1/2"-13X2-3/8" |                         |
| 15   | 4301642      | SHIFT YOKE          |               | 1    |                |                         |
| 16   | 23408        | BRACKET             |               | 1    |                |                         |



REVERSE IDLER

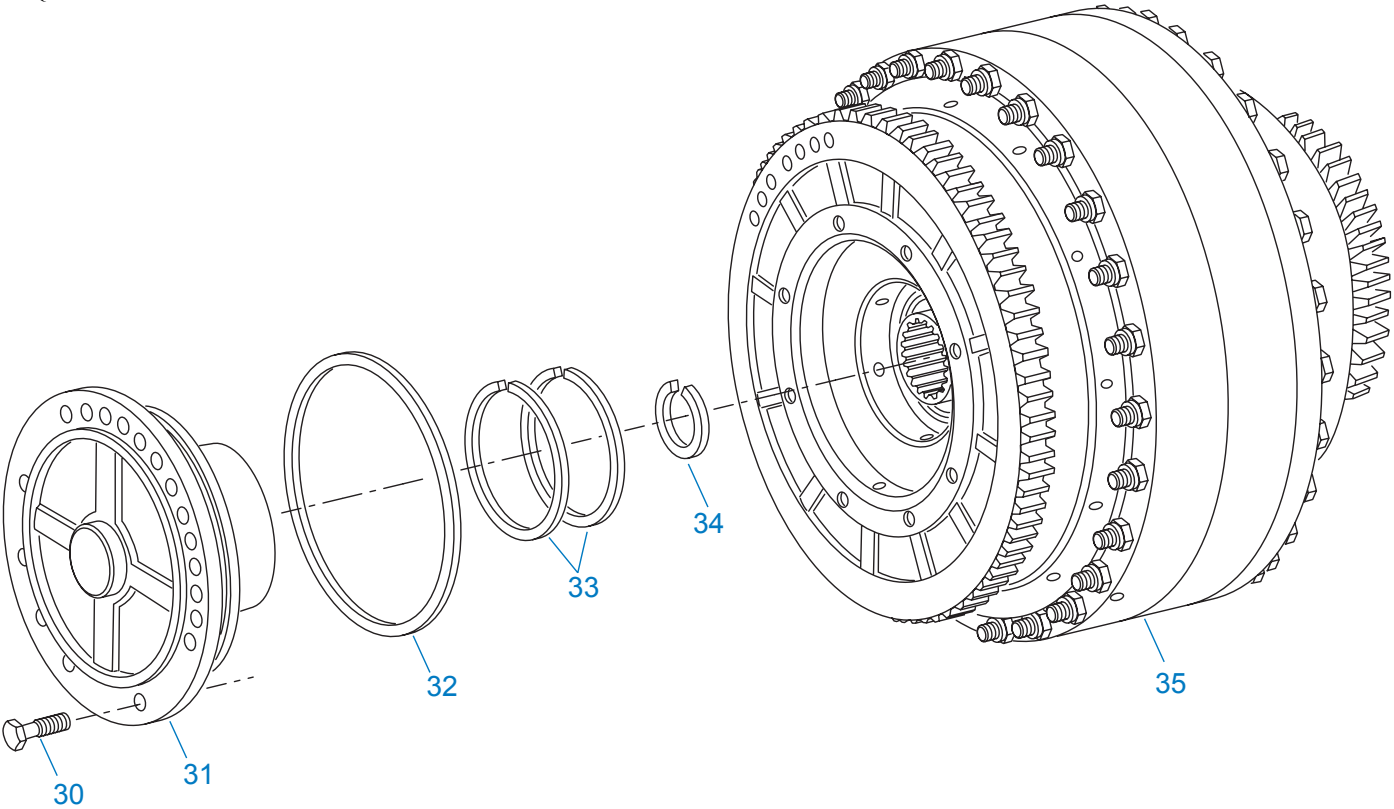
| Item | Current Part | Description          | Replaced Part | Qty. | Notes         | Kits/Assys Where Needed            |
|------|--------------|----------------------|---------------|------|---------------|------------------------------------|
| 1    | X-1-1008     | NUT                  |               | 2    | 5/8"-18       |                                    |
| 2    | 14283        | WASHER               |               | 2    |               | K-3217                             |
| 3    | 4302982      | WASHER               | 14282         | 2    |               | K-3217,S-1785                      |
| 4    | 14287        | BEARING              | 4305020       | 2    |               | K-2289,K-2290,K-2775,K-2776,K-2777 |
| 5    | 16757        | REVERSE IDLER GEAR   | 22409         | 2    |               |                                    |
| 6    | 16403        | WASHER               |               | 2    |               | K-3217                             |
| 7    | K-3217       | IDLER SHAFT REPL KIT | 4302981       | 2    |               |                                    |
| 8    | 5202         | PLUG                 |               | 2    |               |                                    |
| 9    | 14282        | NO LONGER AVAILABLE  |               | 2    |               |                                    |
| 11   | 4303336      | RETAINING RING       |               | 2    |               | K-3217                             |
| 12   | X-7-1008     | CAPSCREW             |               | 2    | 5/8"-18X1-1/4 |                                    |



20421-11-93

STATOR SUPPORT ASSY

| Item | Current Part | Description         | Replaced Part | Qty. | Notes          | Kits/Assys Where Needed            |
|------|--------------|---------------------|---------------|------|----------------|------------------------------------|
| 1    | 22496        | SEAL RING           |               | 1    |                | K-2398,K-2504,K-2990               |
| 2    | S-1676       | STATOR SUPPORT ASSY | 23397         | 1    |                | K-2390                             |
| 3    | 23398        | GASKET              |               | 1    |                | K-2172,K-2391,K-2504,K-2625,S-1676 |
| 4    | X-14-700     | STEEL BALL          |               | 1    | 7/16"          |                                    |
| 5    | 22464        | SPRING              |               | 1    |                |                                    |
| 6    | 23616        | PLUG                |               | 1    |                |                                    |
| 7    | X-8L-616     | CAPSCREW            |               | 6    | 3/8"-16X2-3/4" |                                    |
| 8    | 23401        | -O- RING            |               | 1    |                | K-2391                             |
| 9    | X-12-208     | PIPE PLUG           |               | 1    | 1/8" NPT       |                                    |



20430-11-93

TORQUE CONVERTER ASSY

| Item | Current Part | Description          | Replaced Part | Qty. | Notes      | Kits/Assys Where Needed |
|------|--------------|----------------------|---------------|------|------------|-------------------------|
| 30   | X-8-645      | CAPSCREW             |               | 8    | 3/8"-16X1" |                         |
| 31   | 4301426      | PILOT                |               | 1    |            |                         |
| 32   | 22463        | -O- RING             |               | 1    |            | K-2398,K-2504,K-2990    |
| 33   | 22497        | SEAL RING            |               | 2    |            | K-2398,K-2504,K-2990    |
| 34   | 22429        | SNAP RING            |               | 1    |            | K-2398,K-2990           |
| 35   | K-2646R      | REMAN 16-D CNVTR KIT | K - 3083      | 1    |            |                         |
| 35   | K-2647R      | REMAN 16-C CNVTR KIT | K - 3082      | 1    |            |                         |

## Appendix



### Air Line Tubing

#### Choosing nylon tubing for air lines

Use the following chart to specify the Eaton Fuller nylon tube appropriate to your vehicle's air system.

|  <b>5/32" Air Line and Harness Combinations</b> |                           |                |        |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|--------|
| Line Type                                                                                                                        | Line Color                | Order Part No. | Length |
| Supply + Port                                                                                                                    | Red (S) + Black (P)       | 52601          | 50 ft  |
| Splitter + Deep Reduction                                                                                                        | Blue (SP) + Green (H/L)   | 52701          | 50 ft  |
| Supply + Splitter + Port                                                                                                         | Red(S)+Blue(SP)+ Black(P) | 74601          | 50 ft  |

| <b>5/32" Air Lines</b> |             |                |        |
|------------------------|-------------|----------------|--------|
| Line Type              | Line Color  | Order Part No. | Length |
| Supply                 | Red (S)     | 75120          | 50 ft  |
| Port                   | Black (P)   | 75320          | 50 ft  |
| Splitter               | Blue (SP)   | 75720          | 50 ft  |
| Deep Reduction         | Green (H/L) | 75520          | 50 ft  |
| Sheathing              |             | 80120          | 50 ft  |

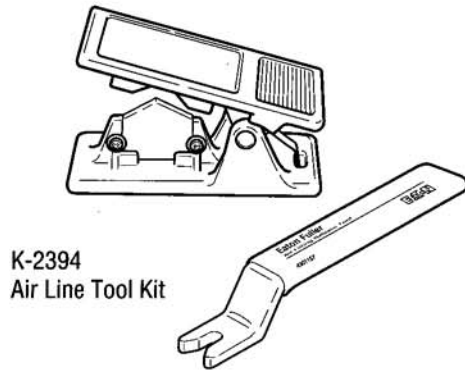
  

| <b>1/8" Air Lines</b> |            |                |        |
|-----------------------|------------|----------------|--------|
| Line Type             | Line Color | Order Part No. | Length |
| Supply                | White      | 68526          | 50 ft  |
| Port                  | Black      | 82013          | 50 ft  |
| Sheathing             |            | 80000          | 50 ft  |

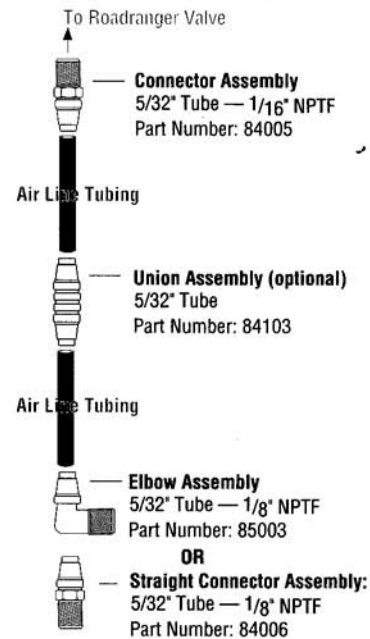
10650-1/92 AL Chart

## Identifying fittings

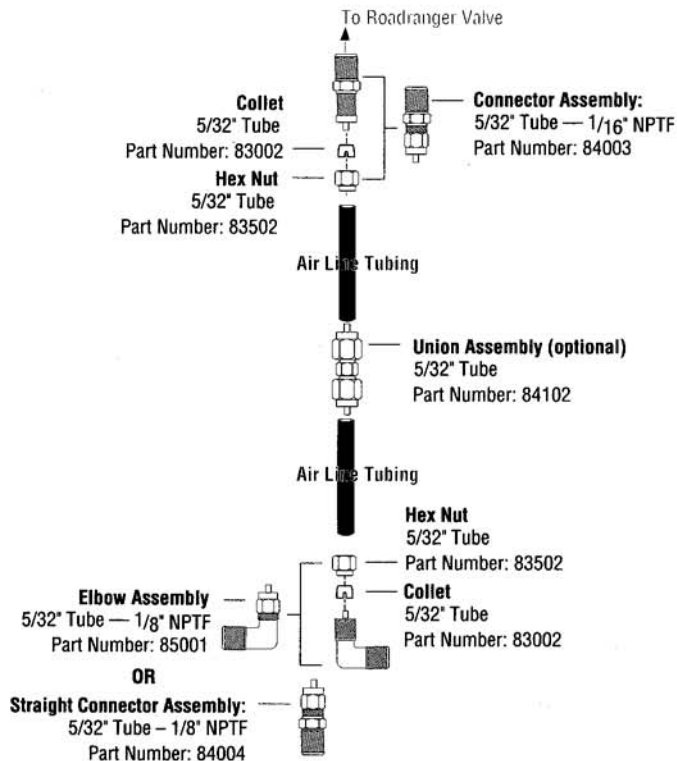
Fittings are available in 5/32" and 1/8" sizes as appropriate for vehicle air line sizes. 5/32" fittings are available as 'push to connect' or compression fittings. 1/8" fittings are available as compression fittings.



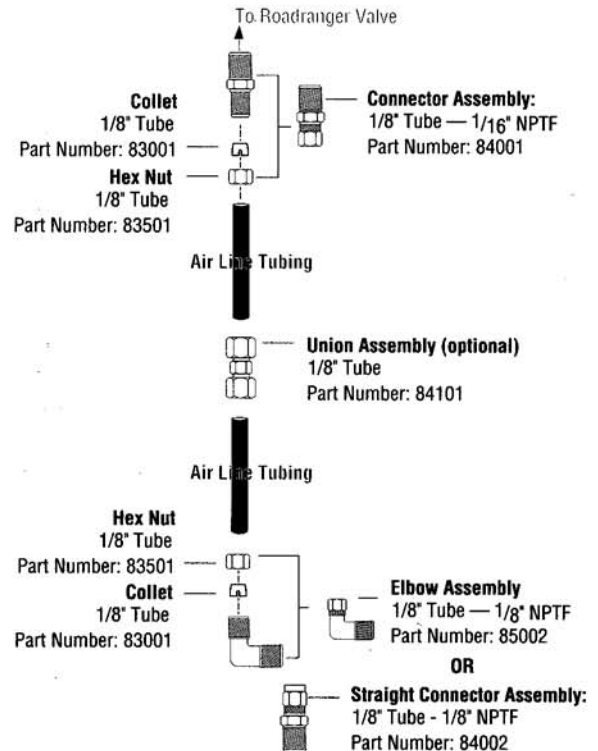
### 5/32" 'Push-to-Connect' Fittings



### 5/32" Compression Fittings



### 1/8" Compression Fittings



10656-10/92 Fittings RRV



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