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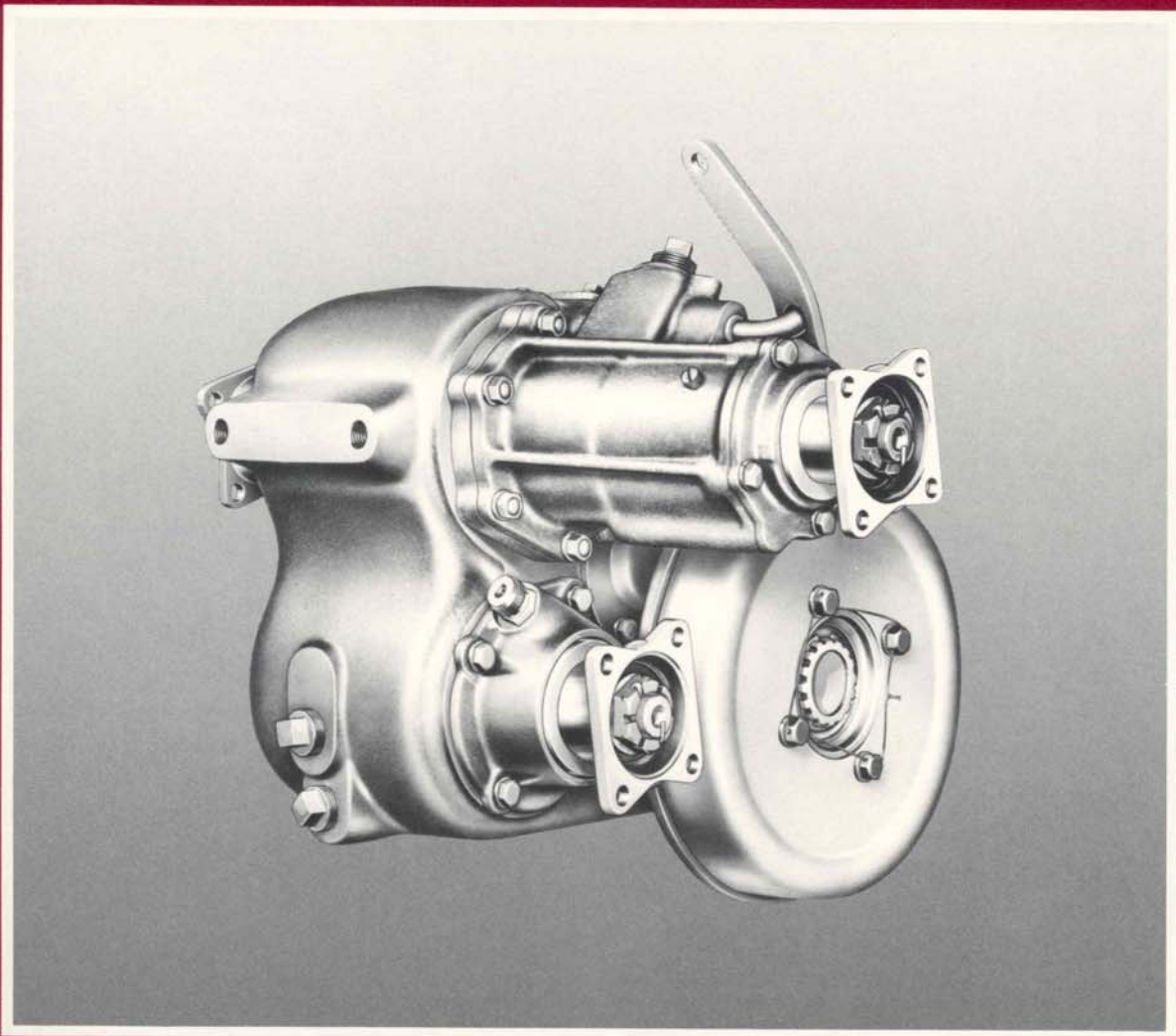
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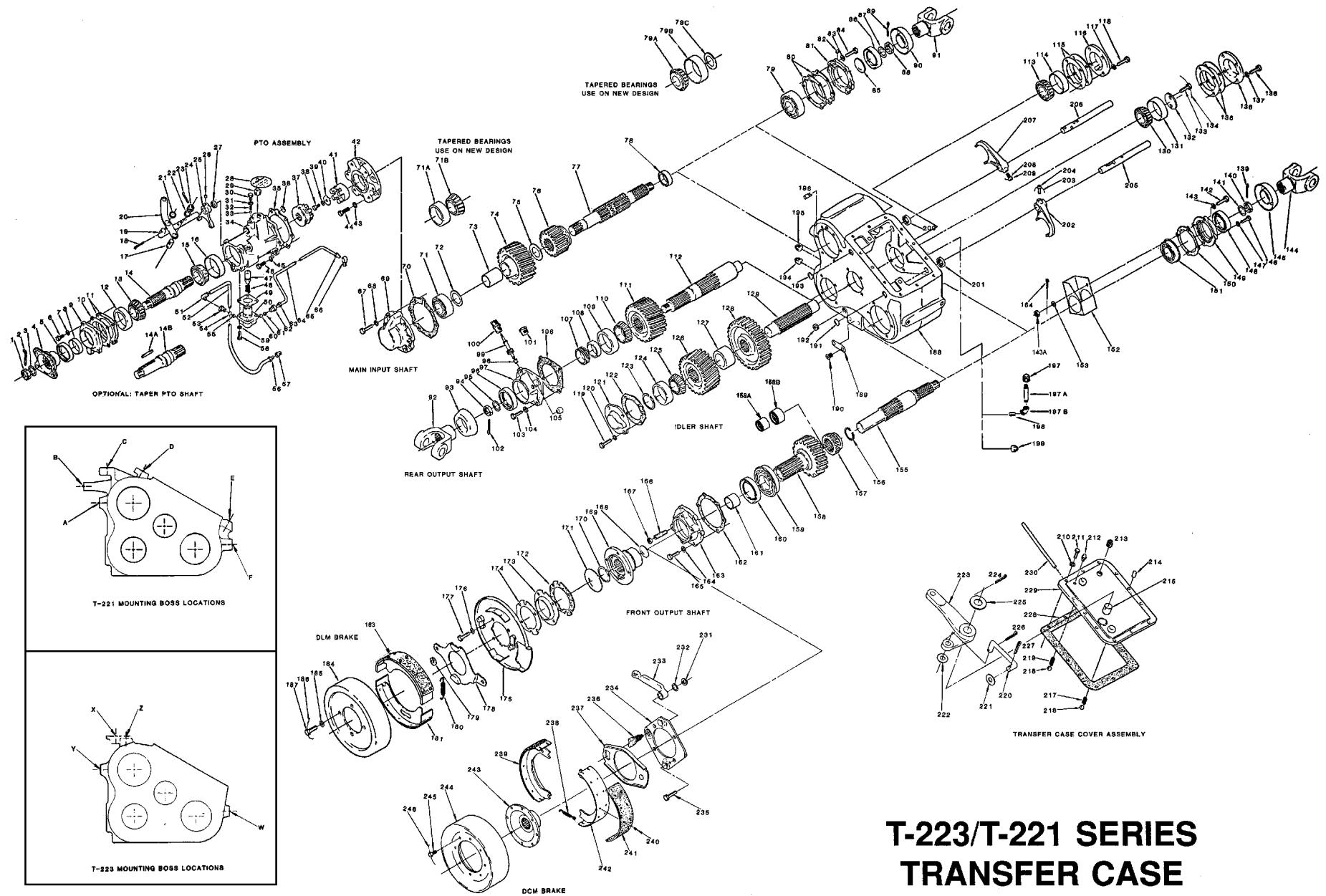
# T-223 and T-221 Series Transfer Cases



**MERITOR™**



**MERITOR PARTS. RIGHT FROM THE START.**



## T-223/T-221 SERIES TRANSFER CASE

# INTRODUCTION

- This parts book is designed so that you can look up part numbers in two different ways.
  1. If you know the part number of the transfer case, for example, if the model number is T-223-H36, you simply match the item number in the picture with the item number in the parts list. The parts list shows which part number is used on each model.
  2. If you don't know the model number, the description column in the parts list has descriptions of the different part numbers that are used on different models.
- This book only lists current models. Included with the list of models covered is a list of superseded models. For service parts for models not listed, contact Meritor Specifications Department, Florence, Kentucky (888) 725-9355.
- All Meritor gears and shafts are marked with the check letter and final digits of the part number, for example, F-5024 or X-2442.
- When you service gears, we recommend that you replace all mating gears for the best quality repair.
- Proper tools and maintenance procedures must be used. For T-221 series and T-223 series transfer cases, follow the service instructions on Meritor Field Maintenance Manual 3A. Also see Meritor Field Maintenance Manual No. 1 for proper lubricant, lubricant capacities and change intervals. Manuals may be obtained by calling the to Meritor's Customer Service Center at 800-535-5560.
- Service kits include parts to service all the different models covered by this book, so the kit may include extra parts that you won't need. In addition to kits, individual parts are available.
- For service parts, contact ArvinMeritor Commercial Vehicle Aftermarket, 888-725-9355. In Canada, 800-668-3508/option 7.

# TABLE OF CONTENTS

|                                                   | Page |
|---------------------------------------------------|------|
| 1. T-223/ T-221 Series Supersessions.....         | 2    |
| 2. T-223/ T-221 Series Options.....               | 3    |
| 3. T-223/ T-221 Series Service Kit Reference..... | 4    |
| 4. T-223 Series Service Kits                      |      |
| P.T.O. Miscellaneous Parts.....                   | 6    |
| P.T.O. Bearings/Shims.....                        | 6    |
| Main Case Seals.....                              | 6    |
| Main Case Bearings/Shims/Spacers.....             | 7    |
| Capscrews/Washers/Nuts.....                       | 8    |
| Main Case Miscellaneous Parts.....                | 9    |
| DLM 10" x 1-1/2" Non-Asbestos Brake Kit.....      | 9    |
| DCM 10" x 3" Brake Kit.....                       | 9    |
| Shaft Output and Input Assemblies.....            | 10   |
| Shaft P.T.O. ....                                 | 11   |
| 5. T-221 Series Service Kits                      |      |
| Main Case Seals.....                              | 11   |
| Main Case Miscellaneous Parts.....                | 11   |
| Main Case Fasteners.....                          | 12   |
| DLM 7-1/4" x 1-1/2" Non-Asbestos Brake Kit.....   | 12   |
| 6. T-223 Transfer Case                            |      |
| Power Take Off.....                               | 13   |
| Main Case.....                                    | 15   |
| DLM Brake.....                                    | 32   |
| DCM Brake.....                                    | 34   |
| 7. T-221 Transfer Case                            |      |
| Main Case.....                                    | 35   |
| DLM Brake.....                                    | 40   |
| 7. Numerical Parts Listing.....                   | 41   |

## T-223 SERIES SUPERSESIONS

| MODEL      | RELEASE DATE | REPLACES MODEL | RELEASE DATE | REPLACES MODEL | RELEASE DATE | REPLACES MODEL | RELEASE DATE |
|------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| T-223-A84  | Oct-82       | T-223-A73      | May-75       |                |              |                |              |
| T-223-A88  | May-83       | T-223-A36      | May-63       | T-223-A2       | Dec-55       |                |              |
| T-223-A89  | Oct-84       | T-223-A57      | Jan-68       |                |              |                |              |
| T-223-A90  | Oct-84       |                |              |                |              |                |              |
| T-223-A92  | Oct-86       |                |              |                |              |                |              |
| T-223-A94  | Jan-91       | T-223-A83      | Oct-82       | T-223-A35      | May-63       | T-223-A        | Nov-59       |
| T-223-A102 | Mar-95       | T-223-A91      | May-86       |                |              |                |              |
| T-223-A103 | Mar-96       |                |              |                |              |                |              |
| T-223-A104 | May-96       | T-223-A101     | Oct-94       | T-223-A99      | Aug-94       | T-223-A-95     | Jan-91       |
| T-223-A105 | Jan-97       | T-223-A100     | Sep-94       | T-223-A98      | May-93       | T-223-A97      | Mar-91       |
| T-223-C22  | Jun-83       | T-223-C9       | Nov-68       |                |              |                |              |
| T-223-C35  | Aug-94       | T-223-C30      | Sep-93       | T-223-C26      | Jul-86       | T-223-C20      | Feb-83       |
| T-223-C41  | Mar-96       | T-223-C39      | Apr-95       | T-223-C32      | Jun-93       | T-223-C28      | Jan-89       |
| T-223-C42  | Oct-96       | T-223-C37      | Jan-95       | T-223-C29      | Sep-92       | T-223-C23      | Nov-83       |
| T-223-C43  | Apr-96       | T-223-C36      | Nov-94       | T-223-C29      | Sep-92       | T-223-C23      | Nov-83       |
| T-223-C44  | Jan-97       | T-223-C38      | Mar-95       | T-223-C31      | Sep-92       | T-223-C27      | Apr-87       |
| T-223-E22  | Jan-89       | T-223-E18      | Sep-71       | T-223-E8       | Nov-61       |                |              |
| T-223-E23  | Apr-83       | T-223-E13      | May-63       | T-223-E7       | Feb-61       | T-223-E3       | Feb-60       |
| T-223-H29  | May-82       |                |              |                |              |                |              |
| T-223-H31  | May-82       | T-223-H5       | Oct-63       | T-223-H1       | May-60       |                |              |
| T-223-H33  | Oct-82       | T-223-H16      | Apr-70       |                |              |                |              |
| T-223-H39  | Sep-84       |                |              |                |              |                |              |
| T-223-H40  | Sep-84       |                |              |                |              |                |              |
| T-223-H41  | Jan-86       |                |              |                |              |                |              |
| T-223-H44  | Feb-88       |                |              |                |              |                |              |
| T-223-H45  | Nov-90       | T-223-H36      | Jan-83       | T-223-H25      | Oct-80       |                |              |
| T-223-H52  | Jan-96       | T-223-C40      | May-95       | T-223-C34      | May-94       | T-223-C33      | Feb-94       |
| T-223-H53  | Feb-96       |                |              |                |              |                |              |
| T-223-H54  | Mar-96       | T-223-H50      | Mar-95       | T-223-H46      | Sep-92       | T-223-H32      | Oct-82       |
| T-223-H55  | Mar-96       | T-223-H49      | Sep-94       | T-223-H47      | Nov-92       | T-223-H42      | Jul-86       |
| T-223-H56  | Jun-96       | T-223-H48      | Sep-93       | T-223-H43      | Oct-87       |                |              |
| T-223-H57  | Aug-96       | T-223-H51      | Oct-95       |                |              |                |              |
| T-223-M4   | Oct-82       | T-223-M2       | Dec-63       | T-223-M        | Mar-61       |                |              |

## T-221 SERIES SUPERSESIONS

| MODEL    | RELEASE DATE | REPLACES MODEL | RELEASE DATE | REPLACES MODEL | RELEASE DATE | REPLACES MODEL | RELEASE DATE |
|----------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| T-221-A1 | Mar-59       | T-221-A        | Oct-55       |                |              |                |              |
| T-221-M6 | Mar-61       | T-221-M3       | Dec-59       | T-221-M        | Feb-59       |                |              |
| T-221-M7 | Mar-61       | T-221-M4       | Dec-59       | T-221-M1       | Apr-59       | T-221-M        | Feb-59       |
| T-221-N4 | Apr-67       | T-221-N1       | Apr-66       | T-221-M7       | Mar-61       | T-221-M4       | Dec-59       |
| T-221-N7 | Apr-68       | T-221-N5       | Apr-67       | T-221-N2       | Apr-66       | T-221-M8       | Mar-61       |

## T-223 SERIES OPTIONS

| MODEL      | P.TO. | DECLUTCH | DLM<br>BRAKE | DCM<br>BRAKE | INTER-<br>LOCK | SPEEDO<br>GEARS | FLANGE/YOKE |                 |                |
|------------|-------|----------|--------------|--------------|----------------|-----------------|-------------|-----------------|----------------|
|            |       |          |              |              |                |                 | INPUT       | FRONT<br>OUTPUT | REAR<br>OUTPUT |
| T-223-A84  |       | X        |              |              |                | X               |             |                 |                |
| T-223-A88  |       | X        | 10" x 1-1/2" |              |                | X               |             |                 |                |
| T-223-A89  |       | X        | 10" x 1-1/2" |              |                | X               |             |                 |                |
| T-223-A90  |       | X        | 10" x 1-1/2" |              |                |                 |             |                 |                |
| T-223-A92  |       | X        | 10" x 1-1/2" |              |                |                 |             |                 |                |
| T-223-A94  |       | X        | 10" x 1-1/2" |              |                | X               |             |                 |                |
| T-223-A102 |       | X        |              |              |                | X               | X           | X               | X              |
| T-223-A103 |       | X        |              |              |                |                 | X           | X               | X              |
| T-223-A104 |       | X        | 10" x 1-1/2" |              |                | X               |             |                 |                |
| T-223-A105 |       | X        | 10" x 1-1/2" |              |                |                 |             |                 |                |
| T-223-C22  |       | X        | 10" x 1-1/2" |              | X              | X               |             |                 |                |
| T-223-C35  |       | X        |              |              | X              |                 |             |                 |                |
| T-223-C41  |       | X        | 10" x 1-1/2" |              | X              |                 |             |                 |                |
| T-223-C42  |       | X        |              |              |                |                 |             |                 |                |
| T-223-C43  |       | X        |              |              |                |                 |             |                 |                |
| T-223-C44  |       | X        |              |              | X              |                 |             |                 |                |
| T-223-E22  |       | X        |              |              |                |                 |             |                 |                |
| T-223-E23  |       | X        | 10" x 1-1/2" |              |                | X               | X           | X               | X              |
| T-223-H29  |       | X        |              | 10" x 3"     |                |                 |             |                 |                |
| T-223-H31  |       | X        |              |              |                |                 |             |                 |                |
| T-223-H33  |       | X        |              |              |                | X               |             |                 |                |
| T-223-H39  | X     | X        |              |              |                | X               |             |                 |                |
| T-223-H40  |       | X        |              |              | X              | X               |             |                 |                |
| T-223-H41  |       | X        | 10" x 1-1/2" |              |                |                 | X           | X               | X              |
| T-223-H44  | X     | X        | 10" x 1-1/2" |              |                |                 |             |                 |                |
| T-223-H45  |       | X        |              | 10" x 3"     |                |                 |             |                 |                |
| T-223-H52  |       | X        |              | 10" x 3"     | X              | X               | X           | X               | X              |
| T-223-H53  |       | X        |              |              | X              | X               |             |                 |                |
| T-223-H54  |       | X        |              |              |                |                 |             |                 |                |
| T-223-H55  |       | X        |              |              | X              | X               | X           | X               | X              |
| T-223-H56  |       | X        |              |              | X              |                 | X           | X               | X              |
| T-223-H57  |       | X        |              |              | X              | X               | X           | X               | X              |
| T-223-M4   |       |          |              |              |                | X               | X           | X               | X              |

## T-221 SERIES OPTIONS

| MODEL    | P.TO. | DECLUTCH | DLM<br>BRAKE    | DCM<br>BRAKE | INTER-<br>LOCK | SPEEDO<br>GEARS | FLANGE/YOKE |                 |                |
|----------|-------|----------|-----------------|--------------|----------------|-----------------|-------------|-----------------|----------------|
|          |       |          |                 |              |                |                 | INPUT       | FRONT<br>OUTPUT | REAR<br>OUTPUT |
| T-221-A1 |       | X        | 7-1/4" x 1-1/2" |              | X              |                 |             |                 |                |
| T-221-M6 |       | X        |                 |              | X              |                 | X           | X               | X              |
| T-221-M7 |       | X        |                 |              | X              |                 | X           | X               | X              |
| T-221-N4 |       | X        |                 |              | X              | X               | X           | X               | X              |
|          |       |          |                 |              |                |                 |             |                 |                |

## T-223 SERIES SERVICE KITS REFERENCE

| MODEL      | KIT NUMBER |        |        |        |        |        |        |        |
|------------|------------|--------|--------|--------|--------|--------|--------|--------|
|            | T223-1     | T223-2 | T223-3 | T223-4 | T223-5 | T223-6 | T223-7 | T223-8 |
| T-223-A84  |            |        | X      | X      | X      | X      |        |        |
| T-223-A88  |            |        | X      | X      | X      | X      | X      |        |
| T-223-A89  |            |        | X      | X      | X      | X      | X      |        |
| T-223-A90  |            |        | X      | X      | X      | X      | X      |        |
| T-223-A92  |            |        | X      | X      | X      | X      | X      |        |
| T-223-A94  |            |        | X      | X      | X      | X      | X      |        |
| T-223-A102 |            |        | X      | X      | X      | X      |        |        |
| T-223-A103 |            |        | X      | X      | X      | X      |        |        |
| T-223-A104 |            |        | X      | X      | X      | X      | X      |        |
| T-223-A105 |            |        | X      | X      | X      | X      | X      |        |
| T-223-C22  |            |        | X      | X      | X      | X      | X      |        |
| T-223-C35  |            |        | X      | X      | X      | X      | X      |        |
| T-223-C41  |            |        | X      | X      | X      | X      | X      |        |
| T-223-C42  |            |        | X      | X      | X      | X      |        |        |
| T-223-C43  |            |        | X      | X      | X      | X      |        |        |
| T-223-C44  |            |        | X      | X      | X      | X      |        |        |
| T-223-E22  |            |        | X      | X      | X      | X      |        |        |
| T-223-E23  |            |        | X      | X      | X      | X      | X      |        |
| T-223-H29  |            |        | X      | X      | X      | X      |        | X      |
| T-223-H31  |            |        | X      | X      | X      | X      |        |        |
| T-223-H33  |            |        | X      | X      | X      | X      |        |        |
| T-223-H39  | X          | X      | X      | X      | X      | X      |        |        |
| T-223-H40  |            |        | X      | X      | X      | X      |        |        |
| T-223-H41  |            |        | X      | X      | X      | X      | X      |        |
| T-223-H44  | X          | X      | X      | X      | X      | X      | X      |        |
| T-223-H45  |            |        | X      | X      | X      | X      |        | X      |
| T-223-H52  |            |        | X      | X      | X      | X      |        | X      |
| T-223-H53  |            |        | X      | X      | X      | X      |        |        |
| T-223-H54  |            |        | X      | X      | X      | X      |        |        |
| T-223-H55  |            |        | X      | X      | X      | X      |        |        |
| T-223-H56  |            |        | X      | X      | X      | X      |        |        |
| T-223-H57  |            |        | X      | X      | X      | X      |        |        |
| T-223-M4   |            |        | X      | X      | X      | X      |        |        |

## T-221 SERIES SERVICE KITS REFERENCE

| MODEL    | KIT NUMBER |         |         |         |
|----------|------------|---------|---------|---------|
|          | T-221-1    | T-221-3 | T-221-4 | T-221-5 |
| T-221-A1 | X          | X       | X       | X       |
| T-221-M6 | X          | X       | X       |         |
| T-221-M7 | X          | X       | X       |         |
| T-221-N4 | X          | X       | X       |         |
| T-221-N7 | X          | X       | X       |         |

## T-223 SERIES SERVICE KITS REFERENCE

| MODEL      | MPS-3831 | MPS-4118 | MPS-4120 | MPS-4121 | MPS-4122 | MPS-4123 | MPS-4124 | MPS-4126 | MPS-4217 |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| T-223-A84  | X        | X        |          |          | X        |          |          |          |          |
| T-223-A88  | X        | X        |          |          | X        |          |          |          |          |
| T-223-A89  | X        | X        |          |          |          |          | X        |          |          |
| T-223-A90  | X        | X        |          |          | X        |          |          |          |          |
| T-223-A92  | X        | X        |          |          | X        |          |          |          |          |
| T-223-A94  | X        | X        |          |          | X        |          |          |          | X        |
| T-223-A102 | X        | X        |          |          | X        |          |          |          |          |
| T-223-A103 | X        | X        |          |          | X        |          |          |          | X        |
| T-223-A104 | X        | X        |          |          | X        |          |          |          | X        |
| T-223-A105 | X        | X        |          |          | X        |          |          |          | X        |
| T-223-C22  | X        | X        |          |          | X        |          |          |          |          |
| T-223-C35  | X        | X        | X        |          |          |          |          |          | X        |
| T-223-C41  |          | X        | X        |          |          |          |          |          | X        |
| T-223-C42  |          | X        | X        |          |          |          |          |          | X        |
| T-223-C43  |          | X        | X        |          |          |          |          |          | X        |
| T-223-C44  |          | X        | X        |          |          |          |          |          | X        |
| T-223-E22  | X        | X        |          |          | X        |          |          |          |          |
| T-223-E23  | X        | X        |          |          | X        |          |          |          |          |
| T-223-H29  |          | X        |          | X        |          |          |          |          |          |
| T-223-H31  | X        | X        |          | X        |          |          |          |          |          |
| T-223-H33  |          | X        |          | X        |          |          |          |          |          |
| T-223-H39  |          | X        |          | X        |          |          |          | X        |          |
| T-223-H40  | X        | X        |          | X        |          |          |          |          |          |
| T-223-H41  | X        | X        |          | X        |          |          |          |          |          |
| T-223-H44  |          | X        |          | X        |          |          |          | X        |          |
| T-223-H45  | X        | X        |          | X        |          |          |          |          |          |
| T-223-H52  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-H53  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-H54  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-H55  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-H56  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-H57  | X        | X        |          | X        |          |          |          |          | X        |
| T-223-M4   | X        | X        |          |          |          | X        |          |          |          |

# T-223 SERIES SERVICE KITS

## KIT T-223-1

## P.T.O. MISCELLANEOUS PARTS

| PART NAME                                            | PART NUMBER  | QTY | ITEM NUMBER ON EXPLODED VIEW |
|------------------------------------------------------|--------------|-----|------------------------------|
| Cotter-P.T.O. shaft nut                              | K-2412       | 1   | 2                            |
| Oil Seal-P.T.O. shaft                                | A-1805-N-352 | 1   | 5                            |
| Cotter-shift lever and shift lever stud              | K-238        | 2   | 18, 23                       |
| Oil Seal-P.T.O. shift shaft                          | A-1805-B-158 | 1   | 27                           |
| Silicone Gasket-3 oz. tube                           | 2297-Z-6656  | 1   | 10, 35, 49                   |
| Sleeve-P.T.O. shaft oil seal                         | 1874-A-105   | 1   | 8                            |
| Spring-shift lock ball                               | 2858-T-20    | 1   | 32                           |
| Ball-shift shaft lock                                | 1898-H-34    | 1   | 33                           |
| Lockwasher-shift lockscrew and drive clutch retainer | 1229-E-421   | 2   | 31, 39                       |
| Spring-oil pump plunger                              | 2858-W-101   | 1   | 48                           |
| Ball-pump inlet check valve                          | 1898-Q-251   | 1   | 54                           |
| Spring-check valve                                   | 2858-X-102   | 2   | 55, 61                       |
| Ball-pump outlet check valve                         | 1228-K-37    | 1   | 60                           |
| Key-tapered P.T.O. shaft                             | 16-X-40      | 1   | 14B                          |

## KIT T-223-2

## P.T.O. BEARINGS/SHIMS

| PART NAME                              | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW |
|----------------------------------------|-------------|-----|------------------------------|
| Shims-P.T.O. shaft cap (.003")         | 2803-V-568  | 3   | 11                           |
| Shims-P.T.O. shaft cap (.005")         | 2803-W-569  | 3   | 11                           |
| Shims-P.T.O. shaft cap (.010")         | 2803-X-570  | 5   | 11                           |
| Cup-P.T.O. shaft brg. outer and inner  | 332         | 2   | 12, 16                       |
| Cone-P.T.O. shaft brg. outer and inner | 335         | 2   | 13, 15                       |
| Silicone Gasket-3 oz. tube             | 2297-Z-6656 | 1   | 10, 35, 49                   |

## KIT T-223-3

## MAIN CASE SEALS

| PART NAME                                                  | PART NUMBER   | QTY | ITEM NUMBER ON EXPLODED VIEW |
|------------------------------------------------------------|---------------|-----|------------------------------|
| Oil Seal-input shaft front brg. cap and output shaft front | A-1805-R-408  | 2   | 86, 148                      |
| Oil Seal-input shaft front brg. cap                        | A-1205-T-1242 | 1   | 86                           |
| Oil Seal-input shaft front brg. cap and rear output shaft  | A-1805-A-573  | 2   | 86, 96                       |
| Oil Seal-front output shaft rear                           | A-1805-P-536  | 1   | 160                          |
| Oil Seal-shift shaft                                       | A-1205-N-1132 | 2   | 200, 201                     |
| Silicone Gasket-3 oz. tube                                 | 2297-Z-6656   | 1   | 70, 106, 122, 150, 162, 228  |

# T-223 SERIES SERVICE KITS

## KIT T-223-4

## MAIN CASE BEARINGS/SHIMS/SPACERS

| PART NAME                                                                | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW |
|--------------------------------------------------------------------------|-------------|-----|------------------------------|
| Cup-input shaft rear                                                     | 332         | 1   | 71A                          |
| Cone-input shaft rear                                                    | 339         | 1   | 71B                          |
| Cone-input shaft front                                                   | 357         | 1   | 79A                          |
| Cone-input shaft front                                                   | 376         | 1   | 79A                          |
| Cup-input shaft front                                                    | 353         | 1   | 79B                          |
| Cup-input shaft front                                                    | 372         | 1   | 79B                          |
| Washer-input shaft front                                                 | 1229-F-3048 | 1   | 79C                          |
| Washer-input shaft front                                                 | 1229-F-2814 | 1   | 79C                          |
| Washer-input shaft front                                                 | 1229-E-3047 | 1   | 79C                          |
| Shim-input shaft front brg. cap (.003")                                  | 2803-L-1832 | 2   | 80                           |
| Shim-input shaft front brg. cap (.005")                                  | 2803-M-1833 | 4   | 80                           |
| Shim-input shaft front brg. cap (.010")                                  | 2803-N-1834 | 2   | 80                           |
| Shim-input shaft front brg. cap (.003")                                  | 2803-B-1874 | 2   | 80                           |
| Shim-input shaft front brg. cap (.005")                                  | 2803-C-1875 | 6   | 80                           |
| Shim-input shaft front brg. cap (.010")                                  | 2803-D-1876 | 1   | 80                           |
| Shim-input shaft front brg. cap (.003")                                  | 2803-G-1931 | 2   | 80                           |
| Shim-input shaft front brg. cap (.005")                                  | 2803-H-1932 | 6   | 80                           |
| Shim-input shaft front brg. cap (.010")                                  | 2803-J-1934 | 4   | 80                           |
| Spacer-input shaft                                                       | 1844-C-809  | 1   | 78                           |
| Cup-rear output shaft rear brg.                                          | 25520       | 1   | 109                          |
| Cone-rear output shaft rear brg.                                         | 25584       | 1   | 110                          |
| Spacer-rear output shaft                                                 | 1844-S-565  | 1   | 108                          |
| Spacer-rear output shaft                                                 | 1844-J-166  | 1   | 108                          |
| Cone-rear output shaft forward brg.                                      | 25878       | 1   | 113                          |
| Cup-rear output shaft forward brg.                                       | 25821       | 1   | 114                          |
| Shim-rear output forward brg. cap and idler shaft front brg. cap (.003") | 2803-Z-1846 | 4   | 115, 135                     |
| Shim-rear output forward brg. cap and idler shaft front brg. cap (.005") | 2803-A-1847 | 4   | 115, 135                     |
| Shim-rear output forward brg. cap and idler shaft front brg. cap (.010") | 2803-B-1848 | 8   | 115, 135                     |
| Cup-idler shaft front and rear brg.                                      | 31521       | 2   | 124, 131                     |
| Cone-idler shaft front and rear brg.                                     | 31597       | 2   | 125, 130                     |
| Spacer-idler shaft front brg.                                            | 1844-L-480  | 1   | 127                          |
| Cone-idler shaft front brg.                                              | HM-89449    | 1   | 130                          |
| Cup-idler shaft front brg.                                               | HM-89411    | 1   | 131                          |
| Bearing-output shaft front                                               | 1828-V-74   | 1   | 151                          |
| Bearing-front output shaft rear                                          | 1828-S-149  | 1   | 159                          |
| Spacer-front output shaft                                                | 1244-Q-1629 | 1   | 161                          |
| Silicone Gasket-3 oz. tube                                               | 2297-Z-6656 | 1   | 70, 106, 122, 150, 162, 228  |
| Washer-idler shaft brg.                                                  | 1829-H-788  | 1   | 132                          |

# T-223 SERIES SERVICE KITS

## KIT T-223-5

## CAPSCREWS/WASHERS/NUTS

| PART NAME                                                                                                                                                                                                                      | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|--------------------------------------------------------|
| Nut-P.T.O. shaft, input shaft, rear output shaft and front output shaft                                                                                                                                                        | 1227-L-714  | 4   | 1, 88, 94, 140                                         |
| Capscrew-P.T.O. shaft cap and oil pump to P.T.O. carrier                                                                                                                                                                       | S-256P-2    | 8   | 6, 58                                                  |
| Washer-P.T.O. shaft cap and oil pump to carrier                                                                                                                                                                                | 1229-E-1669 | 8   | 7, 59                                                  |
| Stud-shift lever                                                                                                                                                                                                               | 4-X-1521    | 1   | 17                                                     |
| Washer-shift shaft                                                                                                                                                                                                             | 1829-J-244  | 1   | 21                                                     |
| Washer-shift lever stud                                                                                                                                                                                                        | WA-38       | 1   | 22                                                     |
| Nut-shift lever stud                                                                                                                                                                                                           | NL-28-1     | 1   | 24                                                     |
| Lockscrew-shift fork                                                                                                                                                                                                           | 26-X-56     | 1   | 26                                                     |
| Screw-shift shaft lock ball                                                                                                                                                                                                    | 3-X-161     | 1   | 30                                                     |
| Lockwasher-shift lockscrew                                                                                                                                                                                                     | 1229-E-421  | 1   | 31                                                     |
| Capscrew-drive clutch retainer                                                                                                                                                                                                 | S-267-2     | 1   | 38                                                     |
| Lockwasher-drive clutch retainer                                                                                                                                                                                               | 1229-E-421  | 1   | 39                                                     |
| Capscrew-cage to T-case, case and top cover                                                                                                                                                                                    | S-268-2     | 14  | 44, 211                                                |
| Washer-cage to T-cage, P.T.O. carrier to T-case, input shaft front and rear brg. cage, rear output and rear output forward cap, front brg. cap, idler shaft front brg. cap, front output shaft rear cap and case and top cover | 1229-K-1597 | 67  | 43, 45, 68, 83, 104, 117, 120, 137, 143, 147, 164, 210 |
| Capscrew-P.T.O. carrier to T-case, input shaft front and rear brg. cage, rear output and rear output forward cap, idler shaft front and rear cap, front brg. cap, and front output shaft rear cap                              | S-269-1     | 46  | 46, 84, 103, 118, 119, 138, 146, 165                   |
| Washer-input shaft rear brg.                                                                                                                                                                                                   | 1829-S-721  | 1   | 72                                                     |
| Washer-direct drive gear                                                                                                                                                                                                       | 1829-P-380  | 1   | 75                                                     |
| Washer-input shaft front                                                                                                                                                                                                       | 1229-F-3048 | 1   | 79C                                                    |
| Washer-input shaft front                                                                                                                                                                                                       | 1229-F-2814 | 1   | 79C                                                    |
| Washer-input shaft front                                                                                                                                                                                                       | 1229-E-3047 | 1   | 79C                                                    |
| Washer-input and output shaft                                                                                                                                                                                                  | 1829-V-100  | 2   | 87, 141                                                |
| Washer-input shaft and rear output shaft nut                                                                                                                                                                                   | 1229-E-1331 | 2   | 87, 95                                                 |
| Washer-idler shaft brg.                                                                                                                                                                                                        | 1829-H-788  | 1   | 132                                                    |
| Capscrew-oil catcher                                                                                                                                                                                                           | 10-X-830    | 1   | 142                                                    |
| Washer-oil catcher and brake pull rod                                                                                                                                                                                          | WA-36       | 2   | 153, 221, 222                                          |
| Capscrew-front output shaft rear cap and case top cover                                                                                                                                                                        | S-2610-2    | 7   | 165, 213                                               |
| Stud-rear output shaft                                                                                                                                                                                                         | 4-X-840     | 6   | 166                                                    |
| Nut-rear output shaft                                                                                                                                                                                                          | N-16-1      | 6   | 167                                                    |
| Lockscrew-shift fork                                                                                                                                                                                                           | 26-X-54     | 2   | 204, 209                                               |
| Washer-bellcrank pin                                                                                                                                                                                                           | WA-310      | 1   | 225                                                    |
| Washer-brake oil detector                                                                                                                                                                                                      | 1829-Z-754  | 1   | 174                                                    |
| Washer-brake mounting capscrew and brake drum capscrew                                                                                                                                                                         | 1229-E-1513 | 8   | 176, 185                                               |
| Capscrew-brake mounting                                                                                                                                                                                                        | S-278A-2    | 4   | 177                                                    |
| Capscrew-brake drum                                                                                                                                                                                                            | S-276D-2    | 4   | 187                                                    |
| Capscrew-brake drum                                                                                                                                                                                                            | S-166D-2    | 4   | 245                                                    |
| Washer-brake                                                                                                                                                                                                                   | WA-39       | 1   | 232                                                    |
| Nut-lock                                                                                                                                                                                                                       | 1779-Z-260  | 1   | 231                                                    |

# T-223 SERIES SERVICE KITS

## KIT T-223-6

## MAIN CASE MISCELLANEOUS PARTS

| PART NAME                                                           | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW |
|---------------------------------------------------------------------|-------------|-----|------------------------------|
| Washer-direct drive gear                                            | 1829-P-380  | 1   | 75                           |
| Cotter-input shaft nut, rear output shaft nut, and output shaft nut | K-2412      | 3   | 89, 102, 139                 |
| Bushing-speed driven gear                                           | 1199-M-1105 | 1   | 89                           |
| Snap Ring-idler shaft                                               | 1854-E-187  | 1   | 123                          |
| Pin-oil drain                                                       | K-236       | 1   | 54                           |
| Snap Ring-front output shaft                                        | 1254-M-91   | 1   | 156                          |
| Snap Ring-brake hub                                                 | 1854-W-257  | 1   | 170                          |
| Plug-oil drain                                                      | 1850-T-150  | 1   | 192                          |
| Lockscrew-shift fork                                                | 26-X-54     | 2   | 204, 209                     |
| Dowels- T-case and cover                                            | 1846-X-284  | 2   | 214                          |
| Pin-brake bellcrank                                                 | 1846-B-262  | 1   | 215                          |
| Washer-bellcrank pin                                                | WA-310      | 1   | 225                          |
| Cotter-bellcrank pin                                                | K-248       | 1   | 225                          |
| Washer-brake pull rod                                               | WA-36       | 1   | 221, 222                     |
| Cotter-brake pull rod                                               | K-236       | 1   | 226, 227                     |
| Ball-shift shaft lock                                               | 1898-E-57   | 2   | 216, 218                     |
| Spring-shift shaft lock                                             | 2858-A-1    | 2   | 217, 219                     |
| Spring-shift shaft lock                                             | 2858-C-237  | 2   | 217, 219                     |
| Spring-shift shaft lock                                             | 2858-B-236  | 2   | 217, 219                     |

## DLM 10" x 1-1/2"

## KIT T-223-7

## NON-ASBESTOS BRAKE KIT

| PART NAME                     | PART NUMBER   | QTY | ITEM NUMBER ON EXPLODED VIEW |
|-------------------------------|---------------|-----|------------------------------|
| Roller-brake                  | 2297-L-6720   | 1   | 179                          |
| Spring-brake shoe return      | 2258-Q-719    | 4   | 180                          |
| Brake Shoe and Lining Assy. ① | A6-3722-L-194 | 2   | 181                          |

## KIT T-223-8

## DCM 10" x 3" BRAKE KIT ②

| PART NAME                | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW |
|--------------------------|-------------|-----|------------------------------|
| Spring-brake shoe return | 2758-A-53   | 1   | 238                          |
| Nut-lock                 | 1779-Z-260  | 1   | 231                          |
| Capscrew-brake mounting  | S-289A-2    | 4   | 235                          |

① Brake lining and rivets available separately in kit 2000-S-1397

② Brake lining and rivets available separately in kit 2000-J-1362

# T-223 SERIES SERVICE KITS

## MPS 3831

## SHAFT-OUTPUT ASSEMBLY

| PART NAME                         | PART NUMBER   | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------------------------|---------------|-----|---------------------------------|
| Shaft-output assy.                | A-3297-Q-1369 | 1   | 155                             |
| Shaft-gear assy.                  | A-3892-E-5465 | 1   | 158                             |
| Oil Seal-output shaft front       | A-1805-R-408  | 1   | 148                             |
| Oil Seal-front output shaft rear  | A-1805-P-536  | 1   | 160                             |
| Expansion Plug-front output shaft | PW-225        | 1   | 168                             |
| Expansion Plug-brake hub          | PW-252        | 1   | 171                             |
| Elbow-high oil level              | 1898-X-258    | 1   | 197B                            |
| Snap Ring-brake hub               | 1854-W-257    | 1   | 170                             |
| Nut-output shaft                  | 1227-C-939    | 1   | 140                             |

## MPS 4118

## SHAFT-REAR DRIVE OUTPUT

| PART NAME          | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|--------------------|-------------|-----|---------------------------------|
| Shaft-output assy. | 3297-S-1370 | 1   | 112                             |
| Nut-output shaft   | 1227-C-939  | 1   | 140                             |

## MPS 4120

## SHAFT-INPUT

| PART NAME       | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------|-------------|-----|---------------------------------|
| Shaft-input     | 3297-S-1372 | 1   | 77                              |
| Nut-input shaft | 1227-C-939  | 1   | 88                              |

## MPS 4121

## SHAFT-INPUT

| PART NAME       | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------|-------------|-----|---------------------------------|
| Shaft-input     | 3297-S-1373 | 1   | 77                              |
| Nut-input shaft | 1227-C-939  | 1   | 88                              |

## MPS 4122

## SHAFT-INPUT

| PART NAME       | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------|-------------|-----|---------------------------------|
| Shaft-input     | 3297-Y-1374 | 1   | 77                              |
| Nut-input shaft | 1227-C-939  | 1   | 88                              |

## MPS 4123

## SHAFT-INPUT

| PART NAME       | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------|-------------|-----|---------------------------------|
| Shaft-input     | 3297-Y-1375 | 1   | 77                              |
| Nut-input shaft | 1227-C-939  | 1   | 88                              |

## MPS 4124

## SHAFT-INPUT

| PART NAME       | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|-----------------|-------------|-----|---------------------------------|
| Shaft-input     | 3297-Y-1376 | 1   | 77                              |
| Nut-input shaft | 1227-C-939  | 1   | 88                              |

## T-223 SERIES SERVICE KITS

### MPS 4126

### SHAFT-P.T.O.

| PART NAME          | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|--------------------|-------------|-----|---------------------------------|
| Shaft-output assy. | 3297-Y-1378 | 1   | 14                              |
| Nut-output shaft   | 1227-C-939  | 1   | 140                             |

### MPS 4217

### SHAFT-OUTPUT

| PART NAME          | PART NUMBER   | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|--------------------|---------------|-----|---------------------------------|
| Shaft-output assy. | A-3297-Q-1369 | 1   | 155                             |
| Gear-output assy.  | A-3892-E-5465 | 1   | 158                             |
| Nut-output shaft   | 1227-C-939    | 1   | 140                             |

## T-221 SERIES SERVICE KITS

### KIT T-221-1

### MAIN CASE SEALS

| PART NAME                                                                                              | PART NUMBER   | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|--------------------------------------------------------------------------------------------------------|---------------|-----|---------------------------------|
| Oil Seal-input shaft front brg. cap, rear output shaft, output shaft front and front output shaft rear | A-1805-E-447  | 4   | 86, 96, 148, 160                |
| Oil Seal-front output shaft rear                                                                       | A-1205-Z-1768 | 1   | 160                             |
| Oil Seal-shift shaft                                                                                   | A-1205-N-1132 | 2   | 200, 201                        |

### KIT T-221-3

### MAIN CASE MISCELLANEOUS PARTS

| PART NAME                                                          | PART NUMBER | QTY | ITEM NUMBER<br>ON EXPLODED VIEW |
|--------------------------------------------------------------------|-------------|-----|---------------------------------|
| Cotter-input shaft nut, rear output shaft nut and output shaft nut | K-2412      | 3   | 89, 102, 139                    |
| Bushing-speed driven gear                                          | 1199-M-1105 | 1   | 98                              |
| Sleeve-speed driven gear                                           | 1898-U-671  | 1   | 100                             |
| Cotter-rear output shaft nut                                       | K-2410      | 1   | 102                             |
| Pin-oil catcher and brake pull rod                                 | K-236       | 2   | 154, 226, 227                   |
| Ball-shift shaft lock                                              | 1898-E-57   | 2   | 216, 218                        |
| Spring-shift shaft lock                                            | 2858-A-1    | 2   | 217, 219                        |
| Spring-shift shaft lock                                            | 2858-Q-277  | 1   | 217, 219                        |

# T-221 SERIES SERVICE KITS

## KIT T-221-4

## MAIN CASE FASTENERS

| PART NAME                                                                                                                                                                                   | PART NUMBER | QTY | ITEM NUMBER ON EXPLODED VIEW              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|-------------------------------------------|
| Washer-input shaft front and rear brg. cage, rear output cap, rear output forward cap, idler shaft rear and front brg. cap, front brg. cap, front output shaft rear cap, case and top cover | 1229-K-1597 | 36  | 68, 83, 104, 117, 120, 137, 147, 164, 210 |
| Washer-input shaft front and rear brg. cage, rear output cap, rear output forward cap, idler shaft rear and front brg. cap, front brg. cap, front output shaft rear cap, case and top cover | WA-16       | 36  | 68, 83, 104, 117, 120, 137, 147, 164, 210 |
| Washer-input shaft rear brg.                                                                                                                                                                | 1829-X-726  | 1   | 72                                        |
| Washer-direct drive gear                                                                                                                                                                    | 1829-Y-727  | 1   | 75                                        |
| Capscrew-input shaft front brg. cap and front brg. cap                                                                                                                                      | S-2612-2    | 6   | 84, 146                                   |
| Nut-input shaft, rear output shaft and output shaft                                                                                                                                         | 1827-H-242  | 3   | 88, 94, 140                               |
| Capscrew-rear output cap                                                                                                                                                                    | S-2614-2    | 1   | 103                                       |
| Capscrew-rear output cap                                                                                                                                                                    | 10-X-665    | 1   | 103                                       |
| Capscrew-rear output cap and front output shaft rear cap                                                                                                                                    | S-269-1     | 6   | 130, 105                                  |
| Washer-rear output cap                                                                                                                                                                      | 1229-E-525  | 1   | 104                                       |
| Capscrew-rear output forward cap, idler shaft rear cap and idler shaft front brg. cap                                                                                                       | S-267-2     | 9   | 118, 119, 138                             |
| Nut-output shaft                                                                                                                                                                            | N-512-1     | 1   | 104                                       |
| Washer-output shaft                                                                                                                                                                         | 1229-V-1556 | 1   | 141                                       |
| Snap Ring-front output shaft                                                                                                                                                                | 1854-P-146  | 1   | 156                                       |
| Lockscrew-shift fork                                                                                                                                                                        | 26-X-54     | 2   | 204, 209                                  |
| Capscrew-case top cover                                                                                                                                                                     | S-2610-2    | 1   | 213                                       |
| Pin-brake bellcrank                                                                                                                                                                         | 1846-E-265  | 1   | 215                                       |
| Washer-bellcrank pin                                                                                                                                                                        | WA-310      | 1   | 225                                       |
| Washer-brake pull rod                                                                                                                                                                       | WA-36       | 1   | 221, 222                                  |
| Capscrew-input shaft front and rear brg. cage, rear output cap, front output shaft rear cap and case and top cover.                                                                         | S-268-2     | 22  | 67, 84, 103, 165, 211                     |

## DLM 7-1/4" x 1-1/2"

## KIT T-221-5

## NON-ASBESTOS BRAKE KIT

| PART NAME                     | PART NUMBER    | QTY | ITEM NUMBER ON EXPLODED VIEW |
|-------------------------------|----------------|-----|------------------------------|
| Roller-brake                  | 1779-P-94      | 2   | 179                          |
| Spring-brake shoe return      | 2258-Q-719     | 2   | 180                          |
| Brake Shoe and Lining Assy. ③ | A13-3722-T-202 | 2   | 181                          |

③ Lining and rivets available separately in kit 2000-Q-173

# T-223 SERIES POWER TAKE OFF

| ITEM | PART NAME                               | MODEL    | QTY | PART NUMBER  | DESCRIPTION                                                                                                 |
|------|-----------------------------------------|----------|-----|--------------|-------------------------------------------------------------------------------------------------------------|
| 1    | Nut-P.T.O. shaft                        | H39, H44 | 1   | 1227-L-714   | 1.00"-20 slotted nut, 1.50" across flats, grade 8.                                                          |
| 2    | Cotter-P.T.O. shaft nut                 | H39, H44 | 1   | K-2412       | 0.13" diameter, 1.50" long.                                                                                 |
| 3    | Washer-P.T.O. shaft nut                 | -        | 1   | 1229-E-1331  | Not used on models in this book.                                                                            |
| 4    | Flange-input                            | -        | 1   | 3897-N-1002  | Not used on models in this book.                                                                            |
| 5    | Oil Seal-P.T.O. shaft                   | H39, H44 | 1   | A-1805-N-352 | 2.44" O.D., 1.69" shaft, 0.32" wide, double lip, single case, with spring.                                  |
| 6    | Capscrew-P.T.O. shaft cap               | H39, H44 | 4   | S-256P-2     | 0.31"-18, 0.75" long, grade 8.                                                                              |
| 7    | Washer-P.T.O. shaft cap                 | -        | 4   | 1229-E-1669  | Not used on models in this book.                                                                            |
| 8    | Sleeve-P.T.O. shaft oil seal            | H39, H44 | 1   | 1874-A-105   | 1.69" O.D., 1.38" I.D., 0.94" wide.                                                                         |
| 9    | Cap-P.T.O. shaft                        | H39, H44 | 1   | A-3866-S-357 | 4 holes on 3.75" bolt circle, 3.15" pilot.                                                                  |
| 10   | Gasket-P.T.O. shaft cap                 | H39, H44 | -   | 2297-Z-6656  | Silicone gasket, use as required.*                                                                          |
| 11   | Shim-P.T.O. shaft cap                   | H39, H44 | 3   | 2803-V-568   | .003", use as required.                                                                                     |
|      |                                         |          | 3   | 2803-W-569   | .005", use as required.                                                                                     |
|      |                                         |          | 5   | 2803-X-570   | .010", use as required.                                                                                     |
| 12   | Cup-P.T.O. shaft brg. outer             | H39, H44 | 1   | 332          | 3.15" O.D.                                                                                                  |
| 13   | Cone-P.T.O. shaft brg. outer            | H39, H44 | 1   | 335          | 1.38" bore.                                                                                                 |
| 14   | Shaft-P.T.O.                            | H39, H44 | 1   | MPS-4126     | 9.06" long, threaded one end, offset lobe in center, 1.38"-10T spline, 1.38"-6T spline, includes item 140.  |
| 14A  | Shaft-tapered P.T.O.                    | -        | 1   | 3880-X-336   | Not used on models in this book. If used omit items 8 and 14.                                               |
| 14B  | Key-tapered P.T.O. shaft                | -        | 1   | 16-X-40      | Not used on models in this book.                                                                            |
| 15   | Cone-P.T.O. shaft brg. inner            | H39, H44 | 1   | 335          | 1.38" bore.                                                                                                 |
| 16   | Cup P.T.O. shaft brg. inner             | H39, H44 | 1   | 332          | 3.15" O.D., included pin item 34.                                                                           |
| 17   | Stud-shift lever                        | H39, H44 | 1   | 4-X-1521     | 0.50"-13/0.50"-20, 1.63" long, 0.13" drilled hole in 0.50"-20 thread, included in item 34.                  |
| 18   | Cotter-shift lever                      | H39, H44 | 1   | K-238        | 0.09" diameter, 1.00" long.                                                                                 |
| 19   | Shaft-P.T.O. shift                      | H39, H44 | 1   | 2843-C-107   | 0.31" diameter, 5.87" developed length.                                                                     |
| 20   | Lever-shift                             | H39, H44 | 1   | 2847-E-291   | 0.52"-3 holes, 0.44" diameter, 0.25" thick.                                                                 |
| 21   | Washer-shift shaft                      | H39, H44 | 1   | 1829-J-244   | 0.94" O.D., 0.58" I.D., 0.03" thick.                                                                        |
| 22   | Washer-shift lever stud                 | H39, H44 | 1   | WA-38        | 1.06" O.D., 0.53" I.D., 0.09" thick.                                                                        |
| 23   | Cotter-shift lever stud                 | H39, H44 | 1   | K-238        | 0.09" diameter, 1.00" long.                                                                                 |
| 24   | Nut-shift lever stud                    | H39, H44 | 1   | NL-28-1      | Self locking nut 0.5"-13, 0.75" across flats, grade 8.                                                      |
| 25   | Fork-P.T.O. shaft                       | H39, H44 | 1   | 2849-Y-77    | 0.27"-1 hole, 0.31"-24 UNF.                                                                                 |
| 26   | Lockscrew-shift fork                    | H39, H44 | 1   | 26-X-56      | 0.31"-24 thread, 0.53" long, slot head.                                                                     |
| 27   | Oil Seal-P.T.O. shift shaft             | H39, H44 | 1   | A-1805-B-158 | Retainer, 0.81" O.D., 0.56" shaft, 0.12" wide, single lip, single case without spring, included in item 34. |
| 28   | Tag-oil instruction                     | H39, H44 | 1   | 1898-C-55    | 2.38" dia., yellow with black lettering.                                                                    |
| 29   | Plug-P.T.O. carrier                     | H39, H44 | 1   | 1850-T-150   | Male square head with 0.13" dia. hole.                                                                      |
| 30   | Screw-shift shaft lockscrew             | H39, H44 | 1   | 3-X-161      | 0.38" -16, 0.31" long.                                                                                      |
| 31   | Lockwasher-shift lockscrew              | H39, H44 | 1   | 1229-E-421   | Internal tooth type, 0.69" O.D., 0.04" thick.                                                               |
| 32   | Spring-shift lock ball                  | H39, H44 | 1   | 2858-T-20    | 5.50 coils, 0.53" long, 0.31" O.D.                                                                          |
| 33   | Ball-shift shaft lock                   | H39, H44 | 1   | 1898-H-34    | 0.31" diameter.                                                                                             |
| 34   | Carrier Assy.-P.T.O. shaft bearing cage | H39, H44 | 1   | A-3826-Y-285 | 3826-D-394 cast, Includes items 16, 117, 27, and 36.                                                        |
| 35   | Gasket-P.T.O. carrier to brg.           | H39, H44 | -   | 2297-Z-6656  | Silicone gasket, use as required.*                                                                          |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES POWER TAKE OFF

| ITEM | PART NAME                           | MODEL    | QTY | PART NUMBER   | DESCRIPTION                                                                                                                 |
|------|-------------------------------------|----------|-----|---------------|-----------------------------------------------------------------------------------------------------------------------------|
| 36   | Plug-expansion                      | H39, H44 | 1   | PW-210        | 0.625" O.D., 0.062" thick. Included in item 34.                                                                             |
| 37   | Clutch-P.T.O. sliding               | H39, H44 | 1   | 2848-J-88     | 5 dog jaws, 2.75" O.D., 1.38"-6T spline, includes external shift groove.                                                    |
| 38   | Capscrew-drive clutch retainer      | H39, H44 | 1   | S-267-2       | 0.38"-16, 0.88" long, grade 8.                                                                                              |
| 39   | Lockwasher-drive clutch retainer    | H39, H44 | 1   | 1229-E-421    | Internal tooth type, 0.69" O.D., 0.04" thick.                                                                               |
| 40   | Retainer-drive clutch               | H39, H44 | 1   | 1829-D-680    | 0.41" diameter hole.                                                                                                        |
| 41   | Clutch-P.T.O. drive                 | H39, H44 | 1   | 2848-H-86     | 5 dog jaws, 2.25" O.D., 1.38"-6 spline.                                                                                     |
| 42   | Cage-input shaft rear brg.          | H39, H44 | 1   | 3826-X-284    | 3826-X-326 cast, 6 drilled holes on 5.00" bolt circle, 6 tapped holes on 5.00" bolt circle, 1 angle drilled hole, open end. |
| 43   | Capscrew-cage to T-case             | H39, H44 | 6   | S-268-2       | 0.38"-16, 1.00" long, grade 8.                                                                                              |
| 44   | Washer-cage to T-case               | H39, H44 | 6   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                        |
| 45   | Washer-P.T.O. carrier to T-case     | H39, H44 | 6   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                        |
| 46   | Capscrew-P.T.O. carrier to T-case   | H39, H44 | 6   | S-269-1       | 0.38"-16, 1.12" long, grade 8.                                                                                              |
| 47   | Plunger-oil pump                    | H39, H44 | 1   | 1846-V-126    | 0.35" I.D., 0.74" O.D., 1.65" long.                                                                                         |
| 48   | Spring-oil pump plunger             | H39, H44 | 1   | 2858-W-101    | 11.2 coils, 1.75" long, 0.38" O.D.                                                                                          |
| 49   | Gasket-oil pump to carrier          | H39, H44 | -   | 2297-Z-6656   | Silicone gasket, use as required.*                                                                                          |
| 50   | Oil pump-body assy.                 | H39, H44 | 1   | A2-2847-Q-303 | 0.33"-4 mounting holes, 0.50"-20 UNF 2 holes.                                                                               |
| 51   | Elbow-oil intake tube to fitting    | H39, H44 | 1   | A-1898-W-595  | 90 degree elbow, 0.38" tube, 0.25" pipe thread.                                                                             |
| 52   | Tube assy.-intake                   | H39, H44 | 1   | A-3897-T-1762 | Includes item 56.                                                                                                           |
| 53   | Fitting-oil pump to intake elbow    | H39, H44 | 1   | 1898-H-866    | 0.50"-20 thread, 1.19" long, 0.25" pipe thread.                                                                             |
| 54   | Ball-inlet check valve              | H39, H44 | 1   | 1898-Q-251    | 0.34" diameter.                                                                                                             |
| 55   | Spring-check valve                  | H39, H44 | 1   | 2858-X-102    | 3 coils 0.49" long, 0.41" diameter.                                                                                         |
| 56   | Connector-oil pump intake tube      | H39, H44 | 1   | 1898-G-241    | Included in item 52.                                                                                                        |
| 57   | Fitting-intake tube to case         | H39, H44 | 1   | 1898-J-868    | 0.75" dia. 0.25"-18 N.P.T.F., 1.00" long.                                                                                   |
| 58   | Capscrew-oil pump to P.T.O. carrier | H39, H44 | 4   | S-256P-2      | 0.31"-18, 0.75" long, grade 8.                                                                                              |
| 59   | Washer-oil pump to P.T.O. carrier   | H39, H44 | 4   | 1229-E-1669   | 0.62" O.D., 0.34" I.D., 0.06" thick.                                                                                        |
| 60   | Ball-pump outlet check valve        | H39, H44 | 1   | 1228-K-37     | 0.37" diameter.                                                                                                             |
| 61   | Spring-check valve                  | H39, H44 | 1   | 2858-X-102    | 3 coils 0.48" long, 0.41" diameter.                                                                                         |
| 62   | Fitting-oil outlet tube to pump     | H39, H44 | 1   | 1898-K-531    | 0.50"-20 thread, 1.00" long, 24 thread.                                                                                     |
| 63   | Connector-oil pump outlet tube      | H39, H44 | 1   | 1898-J-504    | Included in item 64.                                                                                                        |
| 64   | Tube Assy.-outlet                   | H39, H44 | 1   | A-2847-R-642  | Includes items 63 and 65.                                                                                                   |
| 65   | Connector-oil pump outlet tube      | H39, H44 | 1   | 1898-J-504    | Included in item 64.                                                                                                        |
| 66   | Elbow-oil pump outlet tube          | H39, H44 | 1   | 1898-L-532    | 0.44"-13 thread 0.90" long, 24 thread.                                                                                      |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# T-223 SERIES MAIN CASE

| ITEM | PART NAME                              | MODEL                                                                       | QTY | PART NUMBER   | DESCRIPTION                                                                                                                                                                                                                                          |
|------|----------------------------------------|-----------------------------------------------------------------------------|-----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 67   | Capscrew-input shaft rear bearing cage | All                                                                         | 6   | S-268-2       | 0.38"-16, 1.12" long, grade 8.                                                                                                                                                                                                                       |
| 68   | Washer-input shaft rear bearing cage   | All                                                                         | 6   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                                                                                                 |
| 69   | Cage-input shaft rear brg.             | All except transfer cases equipped with PTO.                                | 1   | 3838-N-196    | 3828-Y-311 cast, 6 drilled holes on 5.00" bolt circle, 2 tapped holes on 5.00" bolt circle, 2 inside angle drilled holes, closed.                                                                                                                    |
| 70   | Gasket-input shaft rear cap            | All                                                                         | -   | 2297-Z-6656   | Silicone gasket, use as required.*                                                                                                                                                                                                                   |
| 71   | Bearing-input shaft rear               | See remarks                                                                 | 1   | 1228-S-409 ④  | 0.53" diameter, 8 balls.                                                                                                                                                                                                                             |
| 71A  | Cup-input shaft rear                   | All                                                                         | 1   | 332           | 3.15" O.D.                                                                                                                                                                                                                                           |
| 71B  | Cone-input shaft rear                  | All                                                                         | 1   | 339           | 1.38" bore.                                                                                                                                                                                                                                          |
| 72   | Washer-input shaft rear brg.           | All                                                                         | 1   | 1829-S-721    | 2.31" O.D., 1.39" I.D., 0.16" thick.                                                                                                                                                                                                                 |
| 73   | Bushing-direct drive gear              | All                                                                         | 1   | 1825-R-200 ⑤  | 1.75" O.D., 1.61" I.D., 1.78" wide, split, 2 holes and 4 grooves, included in item 74, not sold separately.                                                                                                                                          |
| 74   | Gear Assy.-direct drive (1.87-1)       | A84, A88, A89, A90, A91, A92, A94, A98, A99,                                | 1   | A-3892-J-1544 | 27T, includes item 73, standard, L.H. Helical, 5.23" O.D., includes 17T spline, available as assembly only.                                                                                                                                          |
|      | Gear Assy.-direct drive (2.05-1)       | A103, A104, A105, C20, C22, C29, C30, C32, C34, C41, C43, C44, E22, E23, M4 | 1   | A-3892-W-1635 | 27T, includes item 73, standard, L.H. Helical, 5.23" O.D., includes 16T spline.                                                                                                                                                                      |
|      | Gear Assy.-direct drive (2.25-1)       |                                                                             | 1   | A-3892-R-1604 | 27T, includes item 73, standard, L.H. Helical, 5.23" O.D., includes 15T spline.                                                                                                                                                                      |
|      | Gear Assy.-direct drive (2.00-1)       | All others                                                                  | 1   | A-3892-L-1806 | 27T, includes item 73, heavy duty, R.H. Helical, 5.23" O.D., spur, 14T spline, 3.22" I.D., available as assembly only.                                                                                                                               |
| 75   | Washer-direct drive gear               | All                                                                         | 1   | 1829-P-380    | 2.38" O.D., 1.64" I.D., 0.18" thick with 4 slots.                                                                                                                                                                                                    |
| 76   | Gear-low speed sliding (1.87-1)        | A84, A88, A89, A90, A91, A94, A103, A104, A105                              | 1   | 3892-Z-2444   | 17T, spur, standard, 3.71" O.D., 15T spline, with shift groove.                                                                                                                                                                                      |
|      | Gear-low speed sliding (2.05-1)        | A98, A99, C20, C22, C29, C30, C41, C43, C44                                 | 1   | 3892-Y-2443   | 16T, spur, standard, 3.48" O.D., 15T spline, with shift groove.                                                                                                                                                                                      |
|      | Gear-low speed sliding (2.25-1)        | C31, C32, C34, E22, E23, M4                                                 | 1   | 3892-X-2442   | 15T, spur, standard, 3.29" O.D., 15T spline, with shift groove.                                                                                                                                                                                      |
|      | Gear-low speed sliding (2.00-1)        | All others                                                                  | 1   | 3892-W-2441   | 14T, spur, heavy duty, 3.71" O.D., 15T spline, with shift groove.                                                                                                                                                                                    |
| 77   | Shaft-input<br><br>(Continued)         | A84, A88, A90, A91, A92, A94, A98, A99, A103, A104, A105, C22, E22, E23     | 1   | MPS-4122      | 12.00" long, 4 splines, 2- 2.00"-15T, 1 spline 1.37"-6T, 1 spline 1.50"-10T, Input bearing journal 1.57", induction harden spline 1.47". high gear thick/ thin over all dimension 1.91", input spline 1.50" diameter, 12.13" long, includes item 88. |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

④ Replace with items 71A and 71B.

⑤ Non-serviceable item. Must service with direct drive gear only

## T-223 SERIES MAIN CASE

| ITEM        | PART NAME                          | MODEL                                                                            | QTY | PART NUMBER | DESCRIPTION                                                                                                                                                                                  |
|-------------|------------------------------------|----------------------------------------------------------------------------------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 77          | Shaft-input                        | A89                                                                              | 1   | MPS-4124    | 12.00" long, 4 splines, 2- 2.00"-15T, 1 spline 1.37"-6T, 1 spline 1.50"-10T, No induction hardening on spline, input bearing journal 1.57", includes item 88.                                |
|             |                                    | A94, C20, C29, C30, C31, C32, C41, C43, C44                                      | 1   | MPS-4120    | 12.00" long, 4 splines, 2- 2.00"-15T, 1 spline 1.37"-6T, 1 spline 1.50"-10T, Input bearing journal 1.34" diameter induction harden spline length 3.25", includes item 88.                    |
|             |                                    | M4                                                                               | 1   | MPS-4123    | Same as MPS4122 except high gear thick/thin spline over all dimension 1.78", includes item 88.                                                                                               |
|             |                                    | All others                                                                       | 1   | MPS-4121    | 12.13" long, 4 splines, 2- 2.00"-15T, 1 spline 1.75"-10T, 1 spline 1.37"-6T, Induction harden 1.47" in thick spline area, input bearing journal 1.75", input spline 1.75", includes item 88. |
| 78          | Spacer-input shaft                 | A89                                                                              | 1   | 1844-C-809  | 1.94" O.D., 1.59" I.D., 0.77" wide.                                                                                                                                                          |
| 79          | Bearing-input shaft front          | See remarks                                                                      | 1   | 1228-R-408  | 0.69" diameter, 8 balls.                                                                                                                                                                     |
| 79A         | Cone-input shaft front             | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C22, E22, E23, M4 | 1   | 357         | 1.57" I.D.                                                                                                                                                                                   |
|             |                                    | All others                                                                       | 1   | 376         | 1.77" I.D.                                                                                                                                                                                   |
| 79B         | Cup-input shaft front              | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C22, E22, E23, M4 | 1   | 353         | 3.54" O.D.                                                                                                                                                                                   |
|             |                                    | All others                                                                       | 1   | 372         | 3.94" O.D.                                                                                                                                                                                   |
| 79C         | Washer-input shaft front           | A84, A88, A89, A90, A91, A92, A98, A99, A103, A104, A105, C22, E22, E23, M4      | 1   | 1229-F-3048 | 1.84" O.D., 1.51" I.D., 0.06" thick.                                                                                                                                                         |
|             |                                    | C20, C29, C30, C31, C34, C41 C43, C44                                            | 1   | 1229-F-2814 | 2.12" O.D., 1.51" I.D., 0.125" thick.                                                                                                                                                        |
|             |                                    | All others                                                                       | 1   | 1229-E-3047 | 2.06" O.D., 1.76" I.D., 0.13" thick.                                                                                                                                                         |
| 80          | Shim-input shaft front bearing cap | A84, A88, A89, A90, A91, A92, A94, A99, A103, A104, A105, C22, E22, E23          | 2   | 2803-L-1832 | .003", use as required, 3.60" I.D., 2 notches 168 degrees apart.                                                                                                                             |
|             |                                    |                                                                                  | 2   | 2803-M-1833 | .005", use as required, 3.60" I.D., 2 notches 168 degrees apart.                                                                                                                             |
|             |                                    |                                                                                  | 4   | 2803-N-1834 | .010", use as required, 3.60" I.D., 2 notches 168 degrees apart.                                                                                                                             |
|             |                                    | M4                                                                               | 2   | 2803-B-1874 | .003", use as required, 3.60" I.D., 2 notches 85 degrees apart.                                                                                                                              |
|             |                                    |                                                                                  | 6   | 2803-C-1875 | .005", use as required, 3.60" I.D., 2 notches 85 degrees apart.                                                                                                                              |
|             |                                    |                                                                                  | 1   | 2803-D-1876 | .010", use as required, 3.60" I.D., 2 notches 85 degrees apart.                                                                                                                              |
|             |                                    |                                                                                  |     |             |                                                                                                                                                                                              |
| (Continued) |                                    |                                                                                  |     |             |                                                                                                                                                                                              |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                                      | MODEL                                                                                                                                   | QTY | PART NUMBER   | DESCRIPTION                                                                                                                                                                  |
|------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 80   | Shim-input shaft front bearing cap (continued) | All others                                                                                                                              | 2   | 2803-G-1931   | .003", use as required, 4" I.D., 5.25" O.D.                                                                                                                                  |
|      |                                                |                                                                                                                                         | 6   | 2803-H-1932   | .005", use as required, 4" I.D., 5.25" O.D.                                                                                                                                  |
|      |                                                |                                                                                                                                         | 4   | 2803-J-1934   | .010", use as required, 4" I.D., 5.25" O.D.                                                                                                                                  |
| 81   | Cap Assy-input shaft front bearing cap         | A84, A88, A89, A90, A91, A92, A94, A99, A103, A104, C22, E22, E23                                                                       | 1   | A-3866-S-721  | 3866-B-1250 cast, includes item 86 (R-408), cast in oil slots about 168° apart, 4.25" bolt circle, 6 holes, 2.87" seal bore, 3.55" bearing bore, available as assembly only. |
|      |                                                | A85, A98, A105                                                                                                                          | 1   | A-3866-Y-935  | 3866-B-1250 cast, includes item 86 (R-408), same as S-721 except has 1 drilled thru hole 0.13"-27 N.P.S.F. tap thread, available as assembly only.                           |
|      |                                                | C20, C29, C31, C32, C41, C43, C44, H46, H47, H48                                                                                        | 1   | A1-3866-X-804 | 3866-Z-1274 cast, same as A-3866-X-804 except item 86 is A-1205-T-1242.                                                                                                      |
|      |                                                | M4                                                                                                                                      | 1   | 3866-C-757    | 3866-C-757 cast, uses item 86 (R-408), cast in oil slots approx. 67 degrees apart, 4.25" bolt circle, 6 holes, 2.87" seal bore, 3.55" bearing bore.                          |
|      |                                                | All others                                                                                                                              | 1   | A-3866-X-804  | 3866-Z-1274 cast, includes item 86 (A-573). 0.13" tapped hole, 4.75" bolt circle, 6 holes 3.00" seal bore, 3.94" bearing bore.                                               |
| 82   | Plug-input shaft front bearing cap             | A98, A99, A104, A105, C20, C29, C30, C31, C32, C34, C41, C43, C44, H31, H33, H36, H40, H41, H46, H47, H48, H52, H53, H54, H55, H56, H57 | 1   | P-42          | Hex socket-female, 0.125"-27 thread.                                                                                                                                         |
| 83   | Washer-input shaft front bearing cap           | All                                                                                                                                     | 6   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                         |
| 84   | Capscrew-input shaft front bearing cap         | All                                                                                                                                     | 6   | S-269-1       | 0.38"-16, 1.12" long, grade 8.                                                                                                                                               |
| 85   | Plug-input shaft shipping cover                | N4, N7                                                                                                                                  | 1   | PW-226        | 1.63" O.D. No longer available.                                                                                                                                              |
| 86   | Oil Seal-input shaft front bearing cap         | A84, A88, A89, A90, A91, A92, A94, A98, A99, A104, A105, C22, E22, E23, M4                                                              | 1   | A-1805-R-408  | 2.87" O.D., 2.12" shaft, double lip, double or single case with 8 spring, 0.44" wide.                                                                                        |
|      |                                                | C20, C29, C30, C31, C32, C34, C41                                                                                                       | 1   | A-1205-T-1242 | 3.00" seal O.D., 0.50" wide, 2.13" shaft, double lip, double case with spring.                                                                                               |
|      |                                                | All others                                                                                                                              | 1   | A-1805-A-573  | 3.00" seal O.D., 0.48" wide, 2.25" shaft, double lip, double case, with spring, replaces A-1805-S-409 with single lip.                                                       |
| 86A  | Washer, thrust                                 | C41, C43, C44                                                                                                                           | 1   | 1229-F-2814   | 2.12" O.D., 1.51" I.D., 0.125" thick.                                                                                                                                        |
|      |                                                | A103, A104, A105                                                                                                                        | 1   | 1229-F-3048   | 1.84" O.D., 1.51" I.D., 0.06" thick.                                                                                                                                         |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                  | MODEL                                                                                    | QTY | PART NUMBER | DESCRIPTION                                                                    |
|------|----------------------------|------------------------------------------------------------------------------------------|-----|-------------|--------------------------------------------------------------------------------|
| 87   | Washer-input shaft         | A84, A88, A89, A90, A91, A92, A103, C20, C29, C30, C31, C32, C41, C43, C44, E22, E23, M4 | 1   | 1829-V-100  | 1.75" O.D., 1.03" I.D., 0.16" thick.                                           |
|      |                            | H56, H57                                                                                 | 1   | 1829-M-585  | 2.00" O.D., 1.02" I.D., 0.250" thick.                                          |
|      |                            | H52                                                                                      | 1   | 1229-C-4553 | 1.48" O.D., 0.823" I.D., 0.217" thick.                                         |
|      |                            | All others                                                                               | 1   | 1229-E-1331 | 1.81" O.D., 0.25" thick, 1.03" I.D.                                            |
| 88   | Nut-input shaft            | All                                                                                      | 1   | 1227-C-939  | 1.00"-20, 1.312" width across flats, included in item 77.                      |
| 89   | Cotter-input shaft nut     | All                                                                                      | 1   | K-2412      | 0.13" diameter, 1.50" long.                                                    |
| 90   | Deflector-input yoke       | -                                                                                        | 1   | 2847-P-640  | Not used on 223 models in this book.                                           |
| 91   | Flange/Yoke-input          | A89                                                                                      | 1   | 3897-L-1962 | 1600 flange, 1.50"-10T spline, 8 holes on 6.13" bolt circle.                   |
|      |                            | A90                                                                                      | 1   | 3897-Z-1794 | 7C yoke, 4 holes, 4.63" apart, 1.50"-10T spline.                               |
|      |                            | A91                                                                                      | 1   | 2WCS24-81   | 1550 flange, 4 holes 0.56" at 80/100°, 4.75" bolt circle, 1.50"-10T spline.    |
|      |                            | A92                                                                                      | 1   | 3897-Q-1369 | 1350/1410 flange, 4 holes at 80/100°, 3.75" bolt circle, 1.50"-10T spline.     |
|      |                            | C20, M4                                                                                  | 1   | 2WCS24-43   | 1500 flange, 4 holes 0.25" at 80/100°, 4.75" bolt circle, 1.50"-10T spline.    |
|      |                            | C34                                                                                      | 1   | 3897-K-1441 | 1410 yoke, 4.22" long, drilled holes for mounting u-joint.                     |
|      |                            | E23                                                                                      | 1   | 3897-L-1728 | 1550 yoke, 1.50"-10T spline, 4 tapped holes 0.31"-24 UNF on 2.07" bolt circle. |
|      |                            | H41                                                                                      | 1   | 3897-P-1966 | 1480 yoke, 4 holes, 3.69" apart, 1.75"-10T spline.                             |
|      |                            | H47, H55, H56                                                                            | 1   | 3280-S-7897 | 1550 yoke, 1.75"-10T spline, 4 holes 0.45" diameter.                           |
|      |                            | H52                                                                                      | 1   | 3897-J-1440 | 4.22" long, drilled holes for mounting u-joint.                                |
|      |                            | H57                                                                                      | 1   | 3897-R-1370 | 1410/ 1480 flange, 4 holes at 80/100°, 3.75" bolt circle, 1.75"-10T spline.    |
|      |                            |                                                                                          |     |             |                                                                                |
| 92   | Flange/Yoke-rear output    | A89                                                                                      | 1   | 3897-K-1961 | 1600 flange, 1.75"-10T spline, 8 holes on 6.13" bolt circle, 2.25" seal O.D.   |
|      |                            | A90                                                                                      | 1   | 3897-Y-1793 | 7C/ 72N yoke, 4 holes, 4.63" apart, 1.75"-10T spline.                          |
|      |                            | A91, A103                                                                                | 1   | 3260-H-1256 | 1550 flange, 4 holes 0.56" at 80/100°, 4.75" bolt circle, 1.75"-10T spline.    |
|      |                            | A92, H57                                                                                 | 1   | 3897-R-1370 | 1410/ 1480 flange, 4 holes at 80/100°, 3.75" bolt circle, 1.75"-10T spline.    |
|      |                            | C20, M4                                                                                  | 1   | 2WCS28-32   | 1500 flange, 4 holes 0.25" at 80/100°, 4.75" bolt circle, 1.75"-10T spline.    |
|      |                            | C34, H52                                                                                 | 1   | 3897-J-1440 | 4.22" long, drilled holes for mounting u-joint.                                |
|      |                            | E23                                                                                      | 1   | 3897-M-1729 | 1550 yoke, 1.75"-10T spline, 4 tapped holes 0.31"-24 UNF on 2.07" bolt circle. |
|      |                            | H41                                                                                      | 1   | 3897-P-1966 | 1480 yoke, 4 holes, 3.68" apart, 1.75"-10T spline.                             |
|      |                            | H47                                                                                      | 1   | 3280-S-7897 | 1550 yoke, 1.75"-10T spline, 4 holes 0.45" diameter.                           |
| 93   | Deflector-rear output yoke | -                                                                                        | 1   | 2847-P-640  | Not used on 223 models in this book.                                           |
|      |                            | A98, A99, A104, A105, C41                                                                | 1   | 2847-S-617  | 4 holes 0.47" on 4.31" bolt circle, 2 slots 0.23".                             |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                       | MODEL                                                                                                                         | QTY | PART NUMBER  | DESCRIPTION                                                                                                                                                                   |
|------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 94   | Nut-rear output shaft           | All                                                                                                                           | 1   | 1227-C-939   | 1.00"-20, 1.312" width across flats, included in item 112.                                                                                                                    |
| 95   | Washer-rear output shaft nut    | A103, H55, H56, H57                                                                                                           | 1   | 1829-M-585   | 2.00" O.D., 1.02" I.D., 0.250" thick.                                                                                                                                         |
|      |                                 | H52                                                                                                                           | 1   | 1229-C-4553  | 1.48" O.D., 0.823" I.D., 0.217" thick.                                                                                                                                        |
|      |                                 | All others                                                                                                                    | 1   | 1229-E-1331  | 1.81" O.D., 1.03" I.D., 0.25" thick.                                                                                                                                          |
| 96   | Oil Seal-rear output shaft      | All                                                                                                                           | 1   | A-1805-A-573 | 3.00" seal O.D., 0.44" width, 2.25" shaft, double lip, double case, with spring, included in item 97, replaces A-1805-S-409 with single lip only, available as assembly only. |
| 97   | Cap Assy.-rear output shaft     | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C20, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H53, M4 | 1   | A-3866-E-733 | 3866-F-1254 cast, 3 holes on 4.50" bolt circle, 4th hole 2.56" from center, open end, includes item 96 and 98, available as assembly only.                                    |
|      |                                 | All others                                                                                                                    | 1   | A-3866-G-891 | 3866-E-733 cast, includes item 96 and 98, same as E-733 except add 0.13"-27 N.P.S.F. threaded hole.                                                                           |
| 98   | Bushing-speedometer driven gear | All                                                                                                                           | 1   | 1199-M-1105  | Flanged, 0.44" flange O.D., 0.03" flange width, 0.31" O.D., 0.25" I.D., 0.34" wide, included in item 97.                                                                      |
| 99   | Gear-speedometer driven         | A84, A88, A89, A98, A99, A104, C20, C34, E23, H33, H39, H40, H42, H52, H55, H57, M4                                           | 1   | 1898-V-776   | 14T, Helical, 0.73" O.D., 0.38" wide, speedometer gear on shaft.                                                                                                              |
|      |                                 | A91, A103                                                                                                                     | 1   | 3891-C-1849  | 15T, Helical, 0.73" O.D., 0.50" wide, speedometer gear on shaft.                                                                                                              |
| 100  | Sleeve-speedometer driven gear  | A84, A88, A89, A99, A104, C20, E23, H33, H39, M4                                                                              | 1   | 1898-U-671   | 0.38" thru-hole, 0.88"-18 NS male thread one end, 0.81"-20 UNEF male thread other end, 0.88" nut.                                                                             |
|      |                                 | A91, A103                                                                                                                     | 1   | 1199-N-1106  | 0.47" thru-hole, 0.88"-18 NS male thread one end, 0.50" O.D., 0.81"-20 UNEF male thread other end, 0.41" I.D.                                                                 |
|      |                                 | C34, H40, H47, H52, H55, H57                                                                                                  | 1   | 2245-X-50    | 0.31" thru-hole, 0.88"-18 NS male thread one end, 0.81"-20 UNEF male thread other end, 0.88" nut.                                                                             |
| 101  | Plug-speedometer hole           | A85, A90, A92, A98, A99, A105, C29, C30, C31, C32, C41, C43, C44, H41, H43, H44, H48, H53, H56                                | 1   | A-1850-R-18  | Metal threaded plug, replaces 1850-Z-104 plastic plug.                                                                                                                        |
| 102  | Cotter-rear output shaft nut    | All                                                                                                                           | 1   | K-2412       | 0.13" diameter, 1.50" long.                                                                                                                                                   |
| 103  | Capscrew-rear output cap        | All                                                                                                                           | 4   | S-269-1      | 0.38"-16, 1.12" long, grade 8.                                                                                                                                                |
| 104  | Washer-rear output cap          | All                                                                                                                           | 4   | 1229-K-1597  | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                          |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                              | MODEL                                                                                                                             | QTY | PART NUMBER   | DESCRIPTION                                                                                       |
|------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----|---------------|---------------------------------------------------------------------------------------------------|
| 105  | Breather-rear output shaft rear        | A98, A99, A104, A105, C29, C30, C30, C31, C32, C34, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48                              | 1   | A-1199-C-1043 | 0.13"-27 N.P.T.F., 1.03" long.                                                                    |
| 106  | Gasket-rear output cap                 | All                                                                                                                               | -   | 2297-Z-6656   | Silicone gasket, use as required.*                                                                |
| 107  | Gear-speedometer drive                 | A84, A88, A89, A91, A99, A103, A104, C23, C29, C30, C31, C32, C34, C41, C43, C44, H33, H39, H40, H47, H52, H53, H55, H56, H57, M4 | 1   | 1898-S-799    | 4T, Helical, 2.22" O.D., 1.75" I.D., 0.75" wide.                                                  |
| 108  | Spacer-rear output shaft               | A85, A92, A98, E22, H41                                                                                                           | 1   | 1844-S-565    | 2.13" O.D., 1.76" I.D., 1.18" wide.                                                               |
|      |                                        | A84, A88, A89, A91, A99, A103, A104, C23, C29, C30, C31, C32, C34, C41, C43, C44, H33, H39, H40, H47, H52, H53, H55, H57, M4      | 1   | 1844-J-166    | 2.13" O.D., 1.76" I.D., 0.42" wide.                                                               |
| 109  | Cup-rear output shaft rear bearing     | All                                                                                                                               | 1   | 25520         | 3.27" O.D.                                                                                        |
| 110  | Cone-rear output shaft rear bearing    | All                                                                                                                               | 1   | 25584         | 1.71" bore.                                                                                       |
| 111  | Gear-rear output shaft                 | All                                                                                                                               | 1   | 3892-P-1550   | 27T, L.H. Helical, 5.83" O.D., 1.79"-10T spline.                                                  |
| 112  | Shaft-rear output                      | All                                                                                                                               | 1   | MPS-4118      | 11.5" long, threaded one end, 1.75"-10T spline, 2.00"-10T spline, includes item 94.               |
| 113  | Cone-rear output shaft forward bearing | All                                                                                                                               | 1   | 25878         | 1.38" bore.                                                                                       |
| 114  | Cup-rear output shaft forward bearing  | All                                                                                                                               | 1   | 25821         | 2.88" O.D.                                                                                        |
| 115  | Shim-rear output forward bearing       | All                                                                                                                               | 2   | 2803-Z-1846   | .003", use as required.                                                                           |
|      |                                        |                                                                                                                                   | 2   | 2803-A-1847   | .005", use as required.                                                                           |
|      |                                        |                                                                                                                                   | 4   | 2803-B-1848   | .010", use as required.                                                                           |
| 116  | Cap-rear output forward                | All                                                                                                                               | 1   | 3866-C-731    | Stamping, 4 holes, 3.63" bolt circle, no flats, on O.D., replaces 3866-S-773 with 2 flats on O.D. |
| 117  | Washer-rear output forward cap         | All                                                                                                                               | 4   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                              |
| 118  | Capscrew-rear output forward cap       | All                                                                                                                               | 4   | S-269-1       | 0.38"-16, 1.12" long, grade 8.                                                                    |
| 119  | Capscrew-idler shaft rear cap          | All                                                                                                                               | 4   | S-269-1       | 0.38"-16, 1.12" long, grade 8.                                                                    |
| 120  | Washer-idler shaft rear cap            | All                                                                                                                               | 4   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                              |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                   | MODEL                                                                                                                                        | QTY | PART NUMBER | DESCRIPTION                                                                                                           |
|------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------------------------------------------------------------------------------------------------|
| 121  | Cap-idler shaft rear        | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                                          | 1   | 3866-N-794  | 3866-M-819 cast, round O.D. with scallop and 2 flats on O.D., 4 holes, 3.63" bolt circle, closed end.                 |
|      |                             | All others                                                                                                                                   | 1   | 3866-C-731  | Stamping, 4 holes, 3.63" bolt circle, with no flats on O.D., replaces 3866-S-773 with 2 flats on O.D., closed end.    |
| 122  | Gasket-idler shaft rear cap | All                                                                                                                                          | -   | 2297-Z-6656 | Silicone gasket, use as required.*                                                                                    |
| 123  | Snap ring-idler shaft       | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H54, H55, H56, H57                                                               | 1   | 1854-E-187  | Fits over 1.44" diameter shaft.                                                                                       |
| 124  | Cup-idler shaft rear brg.   | All                                                                                                                                          | 1   | 31521       | 3.00" O.D.                                                                                                            |
| 125  | Cone-idler shaft rear brg.  | All                                                                                                                                          | 1   | 31597       | 1.44" bore.                                                                                                           |
| 126  | Gear-idler shaft            | All                                                                                                                                          | 1   | 3892-C-1641 | 28T, R.H., Helical, 5.41" O.D., includes 1.88"-10T spline.                                                            |
| 127  | Spacer-idler shaft gear     | All                                                                                                                                          | 1   | 1844-L-480  | 2.50" O.D., 1.94" I.D., 1.28" wide.                                                                                   |
| 128  | Gear-low speed (1.87-1)     | A84, A88, A89, A90, A91, A94, A98, A99, A103, A104, A105                                                                                     | 1   | 3892-B-1640 | 33T, standard, spur 6.88" O.D., includes 1.88"-10T spline.                                                            |
|      | Gear-low speed (2.05-1)     | A92, A94, A95, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44                                                                              | 1   | 3892-Y-1637 | 34T, standard, spur 7.08" O.D., includes 1.88"-10T spline.                                                            |
|      | Gear-low speed (2.25-1)     | A94, E22, E23, M4                                                                                                                            | 1   | 3892-T-1606 | 35T, standard, spur 7.28" O.D., includes 1.88"-10T spline.                                                            |
|      | Gear-low speed (2.00-1)     | All others                                                                                                                                   | 1   | 3892-K-1805 | 29T, heavy duty, spur 7.06" O.D., includes 1.88"-10T spline.                                                          |
| 129  | Shaft-idler                 | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, M4                | 1   | 3880-U-723  | 7.30" long, 1.44" bearing diameter both ends, 1.88"-10T spline. Reference TSA-4-43 for further technical information. |
|      |                             | All others                                                                                                                                   | 1   | 3880-A-807  | 7.50" long, 1.44" bearing diameter both ends, 1.88"-10T spline.                                                       |
| 130  | Cone-idler shaft front brg. | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H46, H47, H48, M4 | 1   | 31597       | 1.38" I.D. bore.                                                                                                      |
|      |                             | All others                                                                                                                                   | 1   | HM-89449    | 1.44" bore.                                                                                                           |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                          | MODEL                                                                                                                                        | QTY | PART NUMBER | DESCRIPTION                                                                                        |
|------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|----------------------------------------------------------------------------------------------------|
| 131  | Cup-idler shaft front brg.         | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H46, H47, H48, M4 | 1   | 31521       | 0.94" long, 3.00" O.D.                                                                             |
|      |                                    | All others                                                                                                                                   | 1   | HM-89411    | 0.91" long, 3.00" O.D.                                                                             |
| 132  | Washer-idler shaft brg.            | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                                          | 1   | 1829-H-788  | 1.75" O.D., 0.19" thick, with 2 holes 0.39" diameter on 0.88" bolt circle.                         |
| 133  | Capscrew-idler shaft brg. washer   | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                                          | 2   | 10-X-1292   | 0.38"-16, 0.88" long, grade 8, 1 hole drilled in head.                                             |
| 134  | Lockwire-idler shaft brg. washer   | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                                          | 1   | LW-163      | 16 gage, 3.00" long.                                                                               |
| 135  | Shim-idler shaft front brg. cap    | All                                                                                                                                          | 2   | 2803-Z-1846 | .003", use as required.                                                                            |
|      |                                    |                                                                                                                                              | 2   | 2803-A-1847 | .005", use as required.                                                                            |
|      |                                    |                                                                                                                                              | 4   | 2803-B-1848 | .010", use as required.                                                                            |
| 136  | Cap-idler shaft front brg.         | A84, A88, A89, A90, A91, A92, A94, A98, A103, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, M4                     | 1   | 3866-C-731  | Stamping, 4 holes, 3.63" bolt circle, no flats on O.D., replaces 3866-S-773 2 flats on O.D.        |
|      |                                    | All others                                                                                                                                   | 1   | 3866-N-794  | 3866-M-819 rough part, round O.D. with scallops, 2 flats, 4 holes on 3.63" bolt circle closed cap. |
| 137  | Washer-idler shaft front brg.      | All                                                                                                                                          | 4   | 1229-K-1597 | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                               |
| 138  | Capscrew-idler shaft front bearing | All                                                                                                                                          | 4   | S-269-1     | 0.38"-16, 1.12" long, grade 8.                                                                     |
| 139  | Cotter-output shaft nut            | All                                                                                                                                          | 1   | K-2412      | 0.13" diameter, 1.50" long.                                                                        |
| 140  | Nut-output shaft                   | All                                                                                                                                          | 1   | 1227-C-939  | 1.00"-20, 1.312" width across flats, included in items 14 and 155.                                 |
| 141  | Washer-output shaft                | All                                                                                                                                          | 1   | 1829-V-100  | 1.75" O.D., 1.03" I.D., 0.16" thick.                                                               |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                     | MODEL                                                                                              | QTY | PART NUMBER    | DESCRIPTION                                                                                                        |
|------|-------------------------------|----------------------------------------------------------------------------------------------------|-----|----------------|--------------------------------------------------------------------------------------------------------------------|
| 142  | Capscrew-oil catcher          | C20, C29, C30, C31, C32, C34, C41, C43, C44, H29, H32, H33, H36, H39, H44, H46, H48, H53, H54, H56 | 1   | 10-X-830       | 0.38"-16, 1.87" long, grade 8.                                                                                     |
| 143A | Locknut, oil catcher capscrew | C41, C43, C44, H53, H54, H56                                                                       | 1   | NL-26-1        | 0.38"-16 thread, 0.56" width across flats, grade 8.                                                                |
| 143  | Washer-front brg. cap         | C20, H29, H32, H33, H36, H39, H44                                                                  | 1   | 1229-K-1597    | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                               |
| 144  | Flange/Yoke-front output      | A90                                                                                                | 1   | 3897-Z-1794    | 7C yoke, 4 holes 4.63" apart, 1.50"-10T spline.                                                                    |
|      |                               | A91, A103                                                                                          | 1   | 2WCS24-81      | 1550 flange, 1.50"-10T spline, 4 holes 0.56" at 80/100°, 4.75" bolt circle dia.                                    |
|      |                               | A92, H57                                                                                           | 1   | 3897-Q-1369    | 1350/ 1410 flange, 4 holes at 80/100°, 3.75" bolt circle, 1.50"-10T spline.                                        |
|      |                               | C20, M4                                                                                            | 1   | 2WCS24-43      | 1500 flange, 4 holes 0.50" at 80/100°, 4.75" bolt circle, 1.50"-10T spline.                                        |
|      |                               | C34, H41, H52                                                                                      | 1   | 3897-K-1441    | 1410 yoke, 1.50"-10T spline, 2.13" seal O.D.                                                                       |
|      |                               | E23                                                                                                | 1   | 3897-L-1728    | 1550 yoke, 1.50"-10T spline, 4 tapped holes 0.31"-24 UNF on 2.07" bolt circle.                                     |
|      |                               | H47, H55                                                                                           | 1   | A1-3280-R-7896 | 1550/155N yoke, 1.50"-10T spline, includes item 145.                                                               |
|      |                               | H56                                                                                                | 1   | 155NYS24-6     | 1550/155N yoke, 1.50"-10T spline.                                                                                  |
| 145  | Deflector-front output yoke   | H47                                                                                                | 1   | 2297-S-695     | "S" shape (cross section), 3.44" O.D., 2.18" I.D., 0.88" wide, included in item 144.                               |
| 146  | Capscrew-front brg. cap       | All                                                                                                | 4   | S-269-1        | 0.38"-16, 1.12" long, grade 8.                                                                                     |
| 147  | Washer-front brg. cap         | All                                                                                                | 4   | 1229-K-1597    | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                               |
| 148  | Oil Seal-output shaft front   | All                                                                                                | 1   | A-1805-R-408   | 2.88" O.D., 2.12" shaft, double lip, double or single case, with spring, 0.44" wide, included in item 149 and 155. |
| 149  | Cap Assy.-output shaft front  | All                                                                                                | 1   | A-3866-B-730   | 3866-D-1292 cast, 4 holes on 4.13" bolt circle, includes item 148, available as assembly only.                     |
| 150  | Gasket-output shaft front cap | All                                                                                                | -   | 2297-Z-6656    | Silicone gasket, use as required.*                                                                                 |
| 151  | Bearing-output shaft front    | All                                                                                                | 1   | 1828-V-74      | Ball bearing, 3.15" O.D., 1.57" I.D., 0.71" wide, with snap ring.                                                  |
| 152  | Oil Catcher-output shaft      | C20, C30, C31, C32, C34, H29, H33, H36, H39, H44, H46, H48                                         | 1   | 2847-Q-849     | 1.97" both ends.                                                                                                   |
|      |                               | C29, C41, C43, C44, H53, H54, H56                                                                  | 1   | 3221-S-19      | 3.62" high, 2.31" long, 1.68"/ 1.56" wide at opposite ends.                                                        |
| 153  | Washer-oil catcher            | C20, C30, C31, C32, C34, H29, H33, H36, H39, H44, H46                                              | 1   | WA-36          | 0.81" O.D., 0.46" I.D., 0.06" thick.                                                                               |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                        | MODEL                                                                                                                                                 | QTY | PART NUMBER  | DESCRIPTION                                                                                                                                                                                                                      |
|------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 154  | Pin-oil catcher                  | C20, C30, C31, C32, C34, H29, H33, H36, H39, H44, H46                                                                                                 | 1   | K-236        | 0.09" diameter, 0.75" long.                                                                                                                                                                                                      |
| 155  | Shaft-front output assembly      | A84, A88, A89, A90, A91, A92, A94, A99, C22, C30, C31, C32, C34, E22, E23, H31, H40, H41, H46, H47, H48, M4                                           | 1   | MPS-3831     | 11.91" long, 1"-20 thread one end, spline at threaded end 1.49"-10, two bearing journals at opposite end, outer journal 1.25", inner journal 1.50". Includes items 140, 148, 155, 156, 157A, 157B, 158, 160, 168, 171, and 197B. |
|      |                                  | A98, A103, A104, A105, C18, C23, C29, C43, H52, H53, H54, H55, H56, H57                                                                               | 1   | MPS-4217     | 11.91" long, 1"-20 thread one end, spline at threaded end 1.49"-10, two bearing journals at opposite end, outer journal 1.25", inner journal 1.50". Includes items 155, 156, 157A, 157B and 158.                                 |
| 156  | Snap Ring-front output shaft     | A103, A104, A105, C20, C29, C31, C32, C34, C41, C43, C44, H29, H33, H36, H39, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                        | 1   | 1254-M-91    | Included in item 155 (MPS-3831).                                                                                                                                                                                                 |
| 157  | Clutch-front output sliding      | All                                                                                                                                                   | 1   | 2848-E-161   | 23T, thick/thin external spline, 2.92" O.D., has external shift groove, 1.88"-10T spline.                                                                                                                                        |
| 158  | Gear-front output shaft          | All                                                                                                                                                   | 1   | MPS-4217     | 27T, L.H. Helical, 5.23" O.D., includes 16T external spline and 23T internal spline, included in MPS-3831.                                                                                                                       |
| 158A | Bearing-needle, outer            | All                                                                                                                                                   | 1   | 1228-B-1380  | I.D. 1.25", O.D. 1.50", 1.00" length.                                                                                                                                                                                            |
| 158B | Bearing-needle, inner            | All                                                                                                                                                   | 1   | 1228-A-183   | I.D. 1.50", O.D. 1.88", 0.88" length.                                                                                                                                                                                            |
| 159  | Bearing-front output shaft rear  | All                                                                                                                                                   | 1   | 1828-S-149   | Ball bearing, 3.94" O.D., 2.17" I.D., 0.82" wide, with snap ring.                                                                                                                                                                |
| 160  | Oil Seal-front output shaft rear | A84, A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, E22, E23, H29, H31, H33, H36, H39, H41, H44, H46, H48, M4 | 1   | A-1805-P-536 | 3.50" O.D., 2.63" shaft, 0.50" wide, double lip, double case with springs, replaces A-1805-R-356 with single lip only. Included in item 155.                                                                                     |
| 161  | Spacer-front output shaft        | A91, A103, H40, H47, H53, H55, H57                                                                                                                    | 1   | 1244-Q-1629  | 2.62" O.D., 2.19" I.D., 2.25" wide.                                                                                                                                                                                              |
| 162  | Gasket-front output rear cap     | All                                                                                                                                                   | 1   | 2297-Z-6656  | Silicone gasket, use as required.*                                                                                                                                                                                               |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                         | MODEL                                                                                                                                                                          | QTY | PART NUMBER   | DESCRIPTION                                                                                                                                                                                     |
|------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 163  | Cap Assy.-front output shaft rear | A84, C29, C43, C44, E22, H46, H54                                                                                                                                              | 1   | A-3866-C-887  | 3866-E-1253 cast, 6 drilled holes on 4.88" bolt circle, 1.16" thick, includes item 160.                                                                                                         |
|      |                                   | A91, A103, H40, H47, H55, H57                                                                                                                                                  | 1   | 3266-Y-857    | 6 holes, 3.31" long.                                                                                                                                                                            |
|      |                                   | A99, C30, C31, C34, C41, H39                                                                                                                                                   | 1   | A-3866-W-777  | 3866-E-1253 cast, same as C-887 except 4 additional drilled holes on 4.31" bolt circle on either side of slot on O.D. are not equal distance, includes item 160, available as an assembly only. |
|      |                                   | H29, H36, H52, H53                                                                                                                                                             | 1   | A-3866-R-1162 | 3866-D-732 cast, 6 and 4 holes, 2.82" long, includes item 160.                                                                                                                                  |
|      |                                   | All others                                                                                                                                                                     | 1   | A-3866-D-732  | 3866-E-1253 cast, Same as W-777 except drilled holes on sides of slot on O.D. are equal distance, includes item 160. Available as an assembly only.                                             |
| 164  | Washer-front output shaft rear    | All                                                                                                                                                                            | 6   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                                            |
| 165  | Capscrew-front output shaft rear  | H40, H42, H55, H57                                                                                                                                                             | 6   | S-2610-2      | 0.38"-16, 1.25" long, grade 8.                                                                                                                                                                  |
|      |                                   | All others                                                                                                                                                                     | 6   | S-269-1       | 0.38"-16, 1.12" long, grade 8.                                                                                                                                                                  |
| 166  | Stud-rear output shaft            | H29, H36, H53, H54                                                                                                                                                             | 6   | 4-X-840       | 0.38"-16 both ends, 1.81" long.                                                                                                                                                                 |
| 167  | Nut-rear output shaft             | H29, H36, H53, H54                                                                                                                                                             | 6   | N-16-1        | 0.38"-24, grade 8.                                                                                                                                                                              |
| 168  | Expansion Plug-front output shaft | A84, A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H29, H31, H33, H36, H39, H41, H44, H46, H52, H53, H54, H56, M4 | 1   | PW-225        | 1.56" O.D., 0.08" thick, included in item 155.                                                                                                                                                  |
| 169  | Hub-brake                         | A84, A88, A89, A90, A92, A94, A99, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H31, H33, H39, H40, H41, H44, H46, H48, H54, H56, M4                | 1   | 3897-F-1332   | 5.50" O.D., 4.50" bolt circle, 2.78" long.                                                                                                                                                      |
|      |                                   | H29, H36                                                                                                                                                                       | 1   | 3897-R-3008   | 6.56" O.D., 5.75" bolt circle, 4.53" long.                                                                                                                                                      |
| 170  | Snap Ring-brake hub               | All                                                                                                                                                                            | 1   | 1854-W-257    | Fits over 2.12" diameter shaft. Included in item 155.                                                                                                                                           |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                  | MODEL                                                                                                                                                                               | QTY | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                        |
|------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 171  | Expansion Plug-brake hub   | A84, A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C29, C30, C31, C32, C34, C41, C43, C44, E22, E23, H29, H31, H33, H36, H39, H41, H44, H46, H48, H52, H53, H54, H56, M4 | 1   | PW-252      | 3.25" O.D., 0.134" thick, disc shape, included in item 155.                                                                                                                                                                                        |
| 188  | Case-transfer              | A84, A88, A89, A90, A92, A94                                                                                                                                                        | 1   | 3875-Q-433  | 5875-P-432 casting, less interlock notches. W and Y mounting bosses.                                                                                                                                                                               |
|      |                            | A85                                                                                                                                                                                 | 1   | 3875-K-531  | 5875-P-432 casting, same as Q-433 except tapped hole for P.T.O. with pump and oil level hole location. W and Y mounting bosses.                                                                                                                    |
|      |                            | A91, A103                                                                                                                                                                           | 1   | 3290-Q-1005 | 5875-P-432 casting, same as Q-433 except oil fill plug 15° below output gear center. W and Y mounting bosses.                                                                                                                                      |
|      |                            | A98, A105, C31                                                                                                                                                                      | 1   | 3290-F-1072 | 5875-P-432 casting, same as Q-443 except for drain and oil level hole locations.                                                                                                                                                                   |
|      |                            | A99, A104                                                                                                                                                                           | 1   | 3875-Z-884  | 5875-K-453 casting, 4.13" bolt circle-4 holes, 2 holes 3.63" bolt circle-4 holes each, 4.25" bolt circle-6 holes, hole size 0.38"-16. W and Z mounting bosses.                                                                                     |
|      |                            | C22                                                                                                                                                                                 | 1   | 3875-V-438  | 5875-P-432 casting, same as Q-433 except with interlock notches and reposition holes for clocking brake. W and Y mounting bosses.                                                                                                                  |
|      |                            | C34                                                                                                                                                                                 | 1   | 3290-R-1084 | 3875-Z-520 casting, W, Y, and Z mounting bosses, 3.63" bolt circle 4 holes, 4.88" bolt circle 6 holes, 4.50" bolt circle-4 holes, 5.00" bolt circle-6 holes, 0.38"-16 dia. holes. L.H. offset with interlock notches. W, Y, and Z mounting bosses. |
|      |                            | E22, E23                                                                                                                                                                            | 1   | 3875-A-469  | 5875-Z-468 casting, same as Q-433 except for oil level and drain location. W and X mounting bosses.                                                                                                                                                |
|      |                            | H31                                                                                                                                                                                 | 1   | 3290-G-1073 | 5875-Z-520 casting, same as Q-433 except for drain and oil level hole location. W, Y and Z mounting bosses.                                                                                                                                        |
|      |                            | All others                                                                                                                                                                          | 1   | 3290-E-1071 | 5875-K-453 casting, same as Z-884 except with interlock notches different bore size at input and tapped hole for oil. W and Z mounting bosses.                                                                                                     |
| 189  | Name Plate                 | All                                                                                                                                                                                 | 1   | 1199-K-1493 | 3.00" x 1.25", 2 holes 1.30" diameter.                                                                                                                                                                                                             |
| 190  | Screw-name plate           | All                                                                                                                                                                                 | 2   | 9-X-16      | 1.25" length, 0.32" diameter.                                                                                                                                                                                                                      |
| 191  | Expansion Plug-shift shaft | C20, C41, C44, H40, H47, H52, H53, H55, H57                                                                                                                                         | 1   | 1199-K-3287 | 0.05" thick, cup shape.                                                                                                                                                                                                                            |
|      |                            | All others                                                                                                                                                                          | 1   | PW-214      | 0.08" thick, disc shape.                                                                                                                                                                                                                           |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                  | MODEL                                                                                                                                 | QTY | PART NUMBER | DESCRIPTION                                                                 |
|------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------------------------------------------------------|
| 192  | Plug-oil drain             | A97, A98, A105, C20, C29, C30, C31, C32, C34, C41, C43, C44, H29, H31, H33, H40, H41, H46, H47, H48, H52, H53, H54, H55, H56, H57     | 1   | P-24        | Non-magnetic, female square socket, 0.25"-18 thread.                        |
|      |                            | A89, A98, A99, A103, A104, A105, C29, C30, C31, C32, C34, C41, C43, C44, H46, H47, H48, H52, H53, H54, H55, H56, H57                  | 1   | 1850-T-150  | Magnetic-male square head, 0.75"-15 thread.                                 |
|      |                            | C29                                                                                                                                   | 1   | 1250-G-475  | Magnetic-0.62" square one end, 0.71" other end, 0.75"-14 P.T.F.             |
| 193  | Expansion Plug-shift shaft | C20, C29, C30, C31, C32, H40, H47                                                                                                     | 1   | 1199-K-3287 | 0.05" thick, cup shape.                                                     |
|      |                            | All others                                                                                                                            | 1   | PW-214      | 0.08" thick, 0.875" O.D., disc shape.                                       |
| 194  | Plug-oil drain             | A84, A88, A90, A91, A92, A94, A98, A103, C20, C22, C29, C30, C32, C34, E22, E23, H29, H31, H33, H36, H40, H41, H44, H46, H47, H48, M4 | 1   | P-112       | Male, square head, 0.75"-14 thread.                                         |
| 195  | Plug-oil level             | A84, A88, A89, A90, A91, A92, A94, C20, C22, C30, C32, C34, E22, E23, H32, H33, H39, M4                                               | 1   | P-112       | Male, square head, 0.75"-14 thread.                                         |
| 196  | Oil Catcher-input          | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                                   | 1   | 1898-X-856  | 0.38" diameter, 1.00" long.                                                 |
| 197  | Plug-oil high level        | H29, H31, H36, H39, H40, H41, H44                                                                                                     | 1   | P-112       | Male, square head, 0.75"-14 thread.                                         |
|      |                            | H33                                                                                                                                   | 1   | P-212       | Female, square socket, 0.75"-14 thread.                                     |
|      |                            | -                                                                                                                                     | 1   | 1199-J-894  | 0.75" standard pipe thread, cap plug, not available at this time.           |
| 197A | Pipe-nipple oil level      | -                                                                                                                                     | 1   | 1898-A-261  | 6 pint capacity, 3.75" long, 0.75"-14 N.P.T.F., not available at this time. |
|      |                            | -                                                                                                                                     | 1   | 2296-W-1063 | 5 pint capacity, 2.50" long, 0.75"-14 N.P.T.F., not available at this time. |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME            | MODEL                                                                               | QTY | PART NUMBER   | DESCRIPTION                                                                                                           |
|------|----------------------|-------------------------------------------------------------------------------------|-----|---------------|-----------------------------------------------------------------------------------------------------------------------|
| 197B | Elbow-high oil level | -                                                                                   | 1   | 1898-C-835    | 0.75"-14 N.P.T.F., 90 degrees, not available at this time.                                                            |
|      |                      | -                                                                                   | 1   | 1898-S-201    | Use for 3 and 4 pint capacity, 0.75"-14 N.P.T.F., not available at this time.                                         |
|      |                      | H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57 | 1   | 1898-X-258    | 45 degree elbow, 1.50" one end, 0.69" other end, 0.75" standard pipe thread. Included in item 155.                    |
| 198  | Nipple               | -                                                                                   | 1   | 1898-D-836    | 0.75" standard pipe thread, 0.50" long, 0.82" I.D., 1.05" O.D.                                                        |
| 199  | Plug-oil level       | A84, A88, A89, A104, A105, H29, H36, H40, H41, H44                                  | 1   | P-112         | Male, square head, 0.75"-14 thread.                                                                                   |
|      |                      | C41, C43, C44, H52, H53, H54, H55, H56, H57                                         | 2   |               |                                                                                                                       |
| 200  | Oil Seal-shift shaft | All                                                                                 | 1   | A-1205-N-1132 | 1.26" O.D., 0.75" shaft, single lip and dirt lip with spring, 0.25" wide, replaces A-1805-S-305 with single lip only. |
| 201  | Oil Seal-shift shaft | All                                                                                 | 1   | A-1205-N-1132 | 1.26" O.D., 0.75" shaft, single lip and dirt lip with spring, 0.25" wide, replaces A-1805-S-305 with single lip only. |
| 202  | Shift Fork-declutch  | M4                                                                                  | 1   | 2849-G-241    | 2849-Z-338 forging., small fork tang, 0.19" wide, 2.25" fork opening.                                                 |
|      |                      | All others                                                                          | 1   | 2849-L-220    | 2849-T-332 forging, small fork tang, 0.13" wide, 2.25" fork opening.                                                  |
| 203  | Lockwire-shift fork  | All                                                                                 | 1   | LW-166        | 16 gage, 6.00" long.                                                                                                  |
| 204  | Lockscrew-shift fork | All                                                                                 | 1   | 26-X-54       | 0.38"-24 thread, 1.15" long, 0.09" diameter double drill square head.                                                 |
| 205  | Shift Shaft-declutch | C20, C22, C30, C31, C32, C34, C41, C44, H40, H47, H48, H52, H55, H56, H57           | 1   | 2843-T-410    | 7.25" long, 2 equal ball detents 0.16" deep from ball detent end, setscrew hole bottom right quadrant.                |
|      |                      | C29, C43, H53                                                                       | 1   | 2244-M-39     | 7.25" long, tap drill 1.00" deep-0.44"-20 UNF, 0.68" deep, 0.75" O.D.                                                 |
|      |                      | E22, E23,                                                                           | 1   | 2843-W-439    | Same as T-410 except unequal ball detent, depth 0.13" and 0.21". No longer available.                                 |
|      |                      | M4                                                                                  | 1   | 2843-Q-459    | Same as T-410 except 7.13" long and ball detent end setscrew hole bottom, left quadrant.                              |
|      |                      | All others                                                                          | 1   | 2843-C-393    | Same as T-410 except 2 equal ball detents 0.19" deep.                                                                 |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                   | MODEL                                                                                                                         | QTY | PART NUMBER   | DESCRIPTION                                                                                            |
|------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----|---------------|--------------------------------------------------------------------------------------------------------|
| 206  | Shift Shaft- hi-low         | A84, A88, A89, A90, A91, A92, A94, A98, A99, A103, A104, A105                                                                 | 1   | 2843-B-392    | 7.28" long, 2 equal ball detents, 0.19" deep from ball detent end, setscrew hole upper right quadrant. |
|      |                             | C20, C29, C30, C31, C32, C34, C41, C43, C44, H40, H47, H52, H53, H55, H57                                                     | 1   | 2297-P-2226   | Same as B-392 except 7.41" long and 2 equal ball detents 0.23" deep.                                   |
|      |                             | C22                                                                                                                           | 1   | 2843-S-409    | Same as B-392 except extra slot added at ball detent area. No longer available.                        |
|      |                             | E22, E23                                                                                                                      | 1   | 2843-X-440    | Same as B-392 except 2 unequal ball detents 0.16" and 0.19" deep.                                      |
|      |                             | H29, H31, H33, H36, H39, H41, H44, H46, H54                                                                                   | 1   | 2843-K-453    | Same as B-392 except 7.31" long.                                                                       |
|      |                             | H48, H56                                                                                                                      | 1   | 2843-U-463    | Same as K-453 except extra slot added at ball detent area.                                             |
|      |                             | M4                                                                                                                            | 1   | 2843-P-458    | 7.63" long, 2 equal ball detents 0.19" deep from ball detent end, setscrew hole upper left quadrant.   |
| 207  | Shift Fork- hi-low          | M4                                                                                                                            | 1   | 2849-U-281    | 2849-Z-338 forg., 2.38" fork opening, inner fork width 0.19".                                          |
|      |                             | All others                                                                                                                    | 1   | 2849-V-282    | Same as U-281 except 0.75" diameter hole, inner fork width 0.06".                                      |
| 208  | Lockwire-shift fork         | All                                                                                                                           | 1   | LW-166        | 16 gage, 6.00" long.                                                                                   |
| 209  | Lockscrew-shift fork        | All                                                                                                                           | 1   | 26-X-54       | 0.38"-24 thread, 1.15" long, 0.09" diameter double drill square head.                                  |
| 210  | Washer-case and top cover   | C43, H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                      | 14  | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                   |
|      |                             | M4                                                                                                                            | 12  |               |                                                                                                        |
|      |                             | All others                                                                                                                    | 10  |               |                                                                                                        |
| 211  | Capscrew-case and top cover | C43, H29, H31, H33, H36, H39, H40, H41, H44, H46, H47, H48, H52, H53, H54, H55, H56, H57                                      | 14  | S-268-2       | 0.38"-16, 1.00" long, grade 8.                                                                         |
|      |                             | M4                                                                                                                            | 12  |               |                                                                                                        |
|      |                             | All others                                                                                                                    | 10  |               |                                                                                                        |
| 212  | Breather-oil                | A84, A88, A89, A90, A91, A92, A94, A103, A104, A105, C20, C22, C41, C43, C44, E22, E23, H29, H52, H53, H54, H55, H56, H57, M4 | 1   | A-1199-C-1043 | 0.13"-27 N.P.T.F., 1.03" long.                                                                         |
|      | Plug                        | A99, H43, H46                                                                                                                 | 1   | P-42          | Hex socket-female, 0.125"-27 thread.                                                                   |
| 213  | Capscrew-case top cover     | -                                                                                                                             | 1   | S-2610-2      | 0.38"-16, 1.25" long, grade 8.                                                                         |

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                 | MODEL                                                                                      | QTY | PART NUMBER  | DESCRIPTION                                                                                                                           |
|------|---------------------------|--------------------------------------------------------------------------------------------|-----|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 214  | Dowel-T-case and cover    | All                                                                                        | 2   | 1846-X-284   | 0.38" diameter, 0.88" long.                                                                                                           |
| 215  | Pin-brake bell crank      | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C31, C32, C34, C41, E23, H43, H48 | 1   | 1846-B-262   | 1.75" long, 0.75" diameter, 0.16" diameter hole.                                                                                      |
| 216  | Ball-shift shaft lock     | All                                                                                        | 1   | 1898-E-57    | 0.44" diameter ball.                                                                                                                  |
| 217  | Spring-shift shaft lock   | A99, A104, C30, C31, C32, C44, E22, E23                                                    | 1   | 2858-A-1     | 13 coils, 1.88" free length.                                                                                                          |
|      |                           | C34, H29, H31, H33, H36, H39, H41, H44, H46, H48, H54, H56, M4                             | 1   | 2858-C-237   | 10.75 coils, 1.48" free length.                                                                                                       |
|      |                           | All others                                                                                 | 1   | 2858-B-236   | 9.25 coils, 1.28" free length.                                                                                                        |
| 218  | Ball-shift lock           | All                                                                                        | 1   | 1898-E-57    | 0.44" diameter ball.                                                                                                                  |
| 219  | Spring-shift shaft lock   | A99, A104, C41, E22, E23                                                                   | 1   | 2858-A-1     | 13 coils, 1.88" free length.                                                                                                          |
|      |                           | C34, H29, H31, H33, H36, H39, H41, H44, H46, H48, H54, H56, M4                             | 1   | 2858-C-237   | 10.75 coils, 1.48" free length.                                                                                                       |
|      |                           | All others                                                                                 | 1   | 2858-B-236   | 9.25 coils, 1.28" free length.                                                                                                        |
| 220  | Pull Rod-brake            | -                                                                                          | 1   | 1845-A-27    | Not used on 223 models in this book.                                                                                                  |
| 221  | Washer-brake pull rod     | -                                                                                          | 1   | WA-36        | Not used on 223 models in this book.                                                                                                  |
| 222  | Washer-brake pull rod     | -                                                                                          | 1   | WA-36        | Not used on 223 models in this book.                                                                                                  |
| 223  | Bellcrank-brake operating | -                                                                                          | 1   | 302-T-540    | Not used on 223 models in this book.                                                                                                  |
| 224  | Cotter-bellcrank pin      | -                                                                                          | 1   | K-248        | Not used on 223 models in this book.                                                                                                  |
| 225  | Washer-bellcrank pin      | -                                                                                          | 1   | WA-310       | Not used on 223 models in this book.                                                                                                  |
| 226  | Cotter-brake pull rod     | -                                                                                          | 1   | K-236        | Not used on 223 models in this book.                                                                                                  |
| 227  | Cotter-brake pull rod     | -                                                                                          | 1   | K-236        | Not used on 223 models in this book.                                                                                                  |
| 228  | Gasket-cover              | -                                                                                          | 1   | 2297-Z-6656  | Silicone gasket-use as required.*                                                                                                     |
| 229  | Cover Assy.- T-case top   | A84, A91, A103, E22                                                                        | 1   | 3855-B-210   | 3855-E-447 rough part, 8 mounting holes 0.41" and 2 dowel holes 0.40".                                                                |
|      |                           | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C41, E23                               | 1   | A-3855-G-189 | 3855-C-445 rough part, same as N-196 except with 0.75" hole. Includes item 215.                                                       |
|      |                           | C22, C29, C30, C31, C32, C34, C43, C44, H48, H53, H56                                      | 1   | A-3855-N-196 | 3855-C-445 rough part, with interlock, 8 mounting holes 0.40" and 2 dowel holes 0.38". Includes item 215, available as assembly only. |
|      |                           | H29, H31, H33, H36, H39, H41, H44, H46                                                     | 1   | 3855-J-270   | 3855-E-447 rough part, 12 thru-holes, 2 dowel holes 0.39" diameter and 2 holes 0.36" diameter.                                        |
|      |                           | H40, H47, H52, H54, H55, H57                                                               | 1   | 3855-S-279   | 3855-C-445 rough part, same as J-270 except add 0.93" thru hole thru 2 lower bosses for interlock.                                    |
|      |                           | M4                                                                                         | 1   | 3855-L-272   | 3855-B-444 rough part, 10 thru holes, 2 dowel holes, 1 breather hole.                                                                 |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES MAIN CASE

| ITEM | PART NAME                 | MODEL                                                                                              | QTY | PART NUMBER | DESCRIPTION                 |
|------|---------------------------|----------------------------------------------------------------------------------------------------|-----|-------------|-----------------------------|
| 230  | Shaft-shift interlock pin | C20, C22, C29,<br>C30, C31, C32,<br>C34, C41, C44,<br>H40, H47, H48,<br>H52, H53, H55,<br>H56, H57 | 1   | 1846-D-264  | 0.38" diameter, 6.62" long. |

## T-223 SERIES DLM BRAKES

| ITEM | PART NAME                      | MODEL                                                                                 | QTY | PART NUMBER   | DESCRIPTION                                                                                                |
|------|--------------------------------|---------------------------------------------------------------------------------------|-----|---------------|------------------------------------------------------------------------------------------------------------|
| 172  | Gasket-brake oil deflector     | A88, A89, A90, A92, C20, C22, E23, H41, H44                                           | -   | 2297-Z-6656   | Silicone gasket, use as required.*                                                                         |
| 173  | Oil Deflector-brake            | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44 | 1   | 2847-S-617    | 4 holes on 4.31" bolt circle, 2 notches, 4 flats.                                                          |
| 174  | Washer-brake oil deflector     | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44 | 1   | 1829-Z-754    | 5.00" O.D., 3.56" I.D., 0.09" thick with 2 holes on 4.31" bolt circle.                                     |
| 175  | Backing Plate Assy.            | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 1   | A1-3736-U-229 | 10.20" O.D., 3.50" I.D., 0.47" diameter-4 holes on 4.13" bolt circle.                                      |
| 176  | Washer-brake mounting capscrew | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44 | 1   | 1229-E-1513   | 0.81" O.D., 0.47" I.D., 0.09" thick.                                                                       |
| 177  | Capscrew-brake mounting        | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44 | 1   | S-278A-2      | 0.44"-14, 1.00" long, loctite patch, grade 8.                                                              |
| 178  | Lever-brake                    | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 1   | 2247-K-1259   | Center hole diameter of 4.00", length from center of linkage hole to center of roller hole approx. 10.42". |
| 179  | Roller-brake                   | A88, A89, A90, A92, A94, A98, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44 | 1   | 2297-L-6720   | 1.00" O.D., 0.56" I.D., 0.25" thick.                                                                       |
| 180  | Spring-brake shoe return       | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 4   | 2258-Q-719    | Tension spring, 0.50" O.D., 17 coils, 2.09" free length.                                                   |
|      |                                | A94, C34                                                                              | 1   | 2258-T-1268   | 1.88" free length, 0.43" O.D. 0.88" solid height.                                                          |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-223 SERIES DLM BRAKES

| ITEM | PART NAME                    | MODEL                                                                                 | QTY | PART NUMBER   | DESCRIPTION                                                     |
|------|------------------------------|---------------------------------------------------------------------------------------|-----|---------------|-----------------------------------------------------------------|
| 181  | Brake Shoe and Lining Assy.  | A88, A89, A90, A92, A104, A105, C22, C41, E23, H41, H44                               | 2   | A6-3722-L-194 | Includes item 182 and 183. Replaces A4-3722-L-194.              |
| 182  | Rivet-lining to shoe         | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 20  | RV-354        | Included in item 181 and 183.                                   |
| 183  | Lining Kit-brake shoe        | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 1   | 2000-S-1397   | Brake linings and rivets. Included in item 181.                 |
| 184  | Drum-brake                   | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 1   | 3719-Y-51     | 3.63" pilot diameter, 0.45" punch-4 holes on 4.50" bolt circle. |
| 185  | Washer-brake drum capscrew   | A88, A89, A90, A92, A94, A99, A104, A105, C20, C22, C32, C34, C41, E23, H41, H44, H56 | 4   | 1229-E-1513   | 0.81" O.D., 0.47" I.D., 0.09" thick.                            |
| 186  | Lockwire-brake drum capscrew | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44                          | 1   | LW-1616       | 16 gage, 16.00" long.                                           |
| 187  | Capscrew-brake drum          | A88, A89, A90, A92, A104, A105, C20, C22, C41, E23, H41, H44, H56                     | 4   | S-276D-2      | 0.44"-14, 0.75" long, 1 hole drilled in head, grade 8.          |

## T-223 SERIES DCM BRAKES

| ITEM | PART NAME                    | MODEL              | QTY | PART NUMBER   | DESCRIPTION                                                                  |
|------|------------------------------|--------------------|-----|---------------|------------------------------------------------------------------------------|
| 231  | Nut-lock                     | H29, H36, H52      | 1   | 1779-Z-260    | 0.56"-12, 1.01" across flats.                                                |
| 232  | Washer-brake                 | H29, H36, H52      | 1   | WA-39         | 1.188" O.D., 0.59" I.D., 0.09" thick.                                        |
| 233  | Lever-brake                  | H29, H52           | 1   | 372-X-206     | 5.25" from center line outer hole to 1.00" bore.                             |
|      |                              | H36                | 1   | 372-B-210     | 6.50" from center line outer hole to 1.00" bore.                             |
| 234  | Backing Plate Assy.          | H29, H36, H52      | 1   | A-3736-D-472  | 0.50" diameter-4 holes on 5.20" bolt circle.                                 |
| 235  | Capscrew-brake mounting      | H29, H36, H52      | 4   | S-289A-2      | 0.50"-13, 1.13" long with loctite patch.                                     |
| 236  | Camshaft                     | H29, H36, H52      | 1   | 2710-U-151    | 2710-X-1154 forging, 32 serrations equally spaced.                           |
| 237  | Strut Assy.                  | H29, H36, H52      | 1   | A-3787-Q-17   | 9.40" long, 0.56" thick.                                                     |
| 238  | Spring-brake shoe return     | H29, H36, H52      | 4   | 2758-A-53     | 11 coils, 0.75" diameter, 2.75" long.                                        |
| 239  | Brake Shoe and Lining Assy.  | H29, H36, H52      | 1   | A2-3722-G-501 | Includes lining and rivets.                                                  |
| 240  | Rivet-lining to shoe         | H29, H36, H52      | 24  | RV-875        |                                                                              |
| 241  | Lining Kit-brake shoe        | H29, H36, H52      | 1   | 2000-J-1362   | Includes brake shoe lining and rivets.                                       |
| 242  | Brake Shoe and Lining Assy.  | H29, H36, H52      | 1   | A2-3722-G-501 | Includes lining and rivets.                                                  |
| 243  | Hub-brake                    | H29, H36, H52, H53 | 1   | 3897-R-3008   | 6.56" O.D., 4.34" long, 0.36"-24 UNF, 4 holes on 5.75" bolt circle diameter. |
| 244  | Drum-brake                   | H29, H36, H52      | 1   | A-3819-E-525  | Mounted on item 243 using item 186.                                          |
| 245  | Capscrew-brake drum          | H29, H36, H52      | 4   | S-166D-2      | 0.38"-24, 0.75" long, 1 long drilled in head, grade 8.                       |
| 246  | Lockwire-brake drum capscrew | H29, H36, H52      | 1   | LW-1616       | 16 gage, 16.00" long.                                                        |

# T-221 SERIES MAIN CASE

| ITEM | PART NAME                              | MODEL         | QTY | PART NUMBER   | DESCRIPTION                                                                                                                                                                           |
|------|----------------------------------------|---------------|-----|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 67   | Capscrew-input shaft rear bearing cage | All           | 4   | S-268-2       | 0.38"-16, 1.00" long, grade 8.                                                                                                                                                        |
| 68   | Washer-input shaft rear brg. cage      | A1            | 4   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                                  |
|      |                                        | All others    | 4   | WA-16         | 0.67" O.D., 0.32" I.D., 0.09" thick.                                                                                                                                                  |
| 69   | Cage-input shaft rear brg.             | All           | 1   | 3866-R-746    | 4 holes on 4.25" bolt circle, closed end, 1.31" long.                                                                                                                                 |
| 70   | Gasket-input shaft rear cap            | All           | -   | 2297-Z-6656   | Silicone gasket, use as required.*                                                                                                                                                    |
| 71   | Bearing-input shaft rear               | All           | 1   | 1828-P-94     | Ball bearing, with shield, 2.44" O.D., 1.18" I.D., 0.63" wide.                                                                                                                        |
| 71A  | Cup-input shaft rear                   | -             | 1   | 332           | Not used on 221 models in this book.                                                                                                                                                  |
| 71B  | Cone-input shaft rear                  | -             | 1   | 339           | Not used on 221 models in this book.                                                                                                                                                  |
| 72   | Washer-input shaft rear brg.           | All           | 1   | 1829-X-726    | 2.00" O.D., 1.20" I.D., 0.12" thick.                                                                                                                                                  |
| 73   | Bushing-direct drive gear              | All           | 1   | 1825-W-205    | 1.50" O.D., 1.36" I.D., 1.28" wide, split, 4 holes and 8 grooves, included in item 74. Not sold separately. Sold with direct drive gear only.                                         |
| 74   | Gear Assy.-direct drive (1.796-1)      | All           | 1   | A-3892-U-1711 | 33T, spur, 4.98" O.D., 20T spline, 1.49" bushing bore, includes item 73. No longer available.                                                                                         |
|      | Gear Assy.-direct drive (1.94-1)       |               | 1   | A-3892-X-1714 | 33T, spur, 4.98" O.D., 19T spline, 1.49" bushing bore, includes item 73.                                                                                                              |
| 75   | Washer-direct drive gear               | All           | 1   | 1829-Y-727    | 2.00" O.D., 1.41" I.D., 0.12" thick.                                                                                                                                                  |
| 76   | Gear-low speed sliding (1.796-1)       | All           | 1   | 3892-V-1712   | 20T, spur, 3.68" O.D., 1.63"-10 spline, with shift groove, no longer available.                                                                                                       |
|      | Gear-low speed sliding (1.94-1)        |               | 1   | 3892-Y-1715   | 19T, spur, 3.51" O.D., 1.63"-10 spline.                                                                                                                                               |
| 77   | Shaft-input                            | A1, M, M6, M7 | 1   | 3880-P-744    | 9.09" long with threaded end.                                                                                                                                                         |
|      |                                        | All others    | 1   | 3880-J-1128   | 8.14" long, no threads.                                                                                                                                                               |
| 78   | Spacer-input shaft                     | -             | 1   | 1844-C-809    | Not used on 221 models in this book.                                                                                                                                                  |
| 79   | Bearing-input shaft front              | All           | 1   | 1828-L-142    | Ball bearing with shield, 2.83" O.D., 1.38" I.D., 0.67" long.                                                                                                                         |
| 79A  | Cone-input shaft front                 | -             | 1   | 357           | Not used on 221 models in this book.                                                                                                                                                  |
| 79B  | Cup-input shaft front                  | -             | 1   | 353           | Not used on 221 models in this book.                                                                                                                                                  |
| 79C  | Washer-input shaft front               | -             | 1   | 1229-F-3048   | Not used on 221 models in this book.                                                                                                                                                  |
| 80   | Shim-input shaft front brg. cap        | A1, M, M6, M7 | 1   | 2803-S-1865   | .003", use as required, 3 holes.                                                                                                                                                      |
|      |                                        |               | 1   | 2803-T-1866   | .005", use as required, 3 holes.                                                                                                                                                      |
|      |                                        |               | 3   | 2803-U-1867   | .010", use as required, 3 holes.                                                                                                                                                      |
|      |                                        | All others    | 2   | 2803-D-2162   | .003", use as required, 9 holes.                                                                                                                                                      |
|      |                                        |               | 3   | 2803-E-2163   | .005", use as required, 9 holes.                                                                                                                                                      |
|      |                                        |               | 2   | 2803-F-2164   | .010", use as required, 9 holes.                                                                                                                                                      |
| 81   | Cap Assy.-input shaft front brg.       | A1, M, M6, M7 | 1   | A3-3866-U-749 | 3866-J-1258 cast, 3 holes on 3.75" bolt circle, open end, includes item 86. Replaces A-3866-U-749 with oil seal A-1805-N-378 which replaced A1-3866-U-749 with oil seal A-1805-W-413. |
|      |                                        | All others    | 1   | A-3866-U-1113 | Shipping cover only.                                                                                                                                                                  |
| 82   | Plug-input shaft front brg. cap        | -             | 1   | P-42          | Hex socket-female, 0.125"-27 thread.                                                                                                                                                  |
| 83   | Washer-input shaft front brg. cap      | A1            | 3   | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                                  |
|      |                                        | All others    | 3   | WA-16         | 0.67" O.D., 0.39" I.D., 0.09" thick.                                                                                                                                                  |
| 84   | Capscrew-input shaft front brg.        | A1, M, M6, M7 | 3   | S-2612-2      | 0.38"-16, 1.50" long, grade 8. Replaces S-2611-1 which is 1.38" long.                                                                                                                 |
|      |                                        | All others    | 3   | S-268-2       | 0.38"-16, 1.00" long, grade 8.                                                                                                                                                        |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# T-221 SERIES MAIN CASE

| ITEM | PART NAME                           | MODEL             | QTY | PART NUMBER    | DESCRIPTION                                                                                      |
|------|-------------------------------------|-------------------|-----|----------------|--------------------------------------------------------------------------------------------------|
| 85   | Plug-input shaft shipping cover     | N4, N7            | 1   | PW-226         | 1.63" diameter, 0.08" thick. Part no longer available.                                           |
| 86   | Oil Seal-input shaft front brg. cap | A1                | 1   | A-1805-E-447   | 2.50" O.D., 1.75" I.D., 0.77" wide, double seal lip, and case, included in item 81.              |
| 87   | Washer-input shaft                  | -                 | 1   | 1829-V-100     | Not used on 221 models in this book.                                                             |
| 88   | Nut-input shaft                     | A1, M, M6, M7     | 1   | 1827-H-242     | 0.88"-14, 5.00" height, slotted.                                                                 |
| 89   | Cotter-input shaft nut              | A1, M, M6, M7     | 1   | K-2412         | 0.13" diameter, 1.50" long.                                                                      |
| 90   | Deflector-input yoke                | M, M6, M7         | 1   | 2847-P-640     | Hook shape (cross section), 2.75" O.D., 1.76" I.D., 0.50" wide, included in item 91.             |
| 91   | Flange/Yoke-input                   | M, M6, M7         | 1   | A1-3897-A-1431 | 1310 series, 3.69" long, includes item 90, 1.25"-10T spline.                                     |
| 92   | Flange/Yoke-rear output             | M, M6             | 1   | A1-3897-A-1431 | 1310 series, 3.69" long, includes item 93, 1.25"-10 spline.                                      |
|      |                                     | M7, N4, N7        | 1   | A1-3897-Q-1655 | 1310 series, 3.53" long, 1.25"-10T spline, includes item 93.                                     |
| 93   | Deflector-rear output yoke          | M, M6, M7, N4, N7 | 1   | 2847-P-640     | Included in item 92.                                                                             |
| 94   | Nut-rear output shaft               | All               | 1   | 1827-H-242     | 1.81" O.D., 1.03" I.D., 0.25" thick.                                                             |
| 95   | Washer-rear output shaft nut        | -                 | 1   | 1229-E-1331    | Not used on 221 models in this book.                                                             |
| 96   | Oil Seal-rear output shaft          | All               | 1   | A-1805-E-447   | 2.50" O.D., 1.75" I.D., 0.77" wide, double seal lip and case, included in item 97.               |
| 97   | Cap Assy.-rear output shaft         | All               | 1   | A-3866-Y-805   | 4 holes on 3.88" bolt circle, includes item 96 and 98.                                           |
| 98   | Bushing-speedometer driven gear     | All               | 1   | 1199-M-1105    | Flanged, 0.44" flange O.D., 0.03" flange width, 0.31" O.D., 0.25" I.D. 0.34" wide,               |
| 99   | Gear-speedometer driven             | A1                | 1   | 1898-N-846     | 15T, R.H., helical, 0.74" O.D.                                                                   |
| 100  | Sleeve-speedometer driven gear      | A1                | 1   | 1898-U-671     | 0.38" thru-hole, 1.26" long, 0.81"-20 UNEF 2A threads one end, 0.88"-18 NS 2A threads other end. |
| 101  | Plug-speedometer hole               | -                 | 1   | A-1850-R-18    | Not used on 221 models in this book.                                                             |
| 102  | Cotter-rear output shaft nut        | A1, M, M6, M7     | 1   | K-2412         | 0.13" diameter, 1.50" long.                                                                      |
|      |                                     | All others        | 1   | K-2410         | 0.13" diameter, 1.25" long.                                                                      |
| 103  | Capscrew-rear output cap            | A1, M, M6, M7     | 2   | S-268-2        | 0.38"-16, 1.00" long, grade 8.                                                                   |
|      |                                     |                   | 1   | S-2614-2       | 0.38"-16, 1.75" long, grade 8.                                                                   |
|      |                                     |                   | 1   | 10-X-665       | 0.38"-16, 1.00" long, flat head.                                                                 |
|      |                                     | N4, N7            | 2   | S-269-1        | 0.38"-16, 1.12" long, grade 8.                                                                   |
|      |                                     |                   | 1   | S-2614-2       | 0.38"-16, 1.75" long, grade 8.                                                                   |
|      |                                     |                   | 1   | 10-X-665       | 0.38"-16, 1.00" long, flat head.                                                                 |
| 104  | Washer-rear output cap              | A1                | 3   | 1229-K-1597    | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                             |
|      |                                     |                   | 1   | 1229-E-525     | 0.78" O.D., 0.39" I.D., external teeth.                                                          |
|      |                                     | All others        | 3   | WA-16          | 0.67" O.D., 0.39" I.D., 0.09" thick.                                                             |
|      |                                     |                   | 1   | 1229-E-525     | 0.78" O.D., 0.39" I.D., external teeth.                                                          |
| 105  | Breather-rear output shaft cap      | -                 | 1   | A-1199-C-1043  | Not used on 221 models in this book.                                                             |
| 106  | Gasket-rear output cap              | All               | 1   | 2297-Z-6656    | Silicone gasket, use as required.*                                                               |
| 107  | Gear-speed driven                   | A1                | 1   | 1898-Q-849     | 4T, R.H., Helical, 1.78" O.D.                                                                    |
|      |                                     | All others        | 1   | 1898-P-848     | 4T, R.H., Helical, 1.88" O.D.                                                                    |
| 108  | Spacer-rear output shaft            | N, M6, M7         | 1   |                | 2.13" O.D., 1.81" I.D., 1.38" wide. No longer available.                                         |
| 109  | Cup-rear output shaft rear brg.     | All               | 1   | 15245          | 2.44" O.D.                                                                                       |
| 110  | Cone-rear output shaft rear brg.    | All               | 1   | 15126          | 1.25" bore.                                                                                      |
| 111  | Gear-rear output shaft              | All               | 1   | 3892-R-1708    | 33T, L.H., Helical, 4.97" O.D., 1.63"-10T spline.                                                |
| 112  | Shaft-rear output                   | All               | 1   | 3880-Q-745     | 9.06" long, threaded one end, 1.25"-10 spline, 1.63"-10T spline.                                 |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# T-221 SERIES MAIN CASE

| ITEM | PART NAME                         | MODEL         | QTY | PART NUMBER | DESCRIPTION                                                     |
|------|-----------------------------------|---------------|-----|-------------|-----------------------------------------------------------------|
| 113  | Cone-rear output shaft fwd. brg.  | All           | 1   | 15126       | 1.25" bore.                                                     |
| 114  | Cup-rear output shaft fwd. brg.   | All           | 1   | 15245       | 2.44" O.D.                                                      |
| 115  | Shim-rear output forward brg. cap | A1, M         | 1   | 2803-V-1868 | .003", use as required, 3 holes.                                |
|      |                                   |               | 1   | 2803-W-1869 | .005", use as required, 3 holes.                                |
|      |                                   |               | 3   | 2803-X-1870 | .010", use as required, 3 holes.                                |
|      |                                   | M6, M7        | 2   | 2803-V-1868 | .003", use as required, 3 holes.                                |
|      |                                   |               | 3   | 2803-W-1869 | .005", use as required, 3 holes.                                |
|      |                                   |               | 2   | 2803-X-1870 | .010", use as required, 3 holes.                                |
|      |                                   | All others    | 2   | 2803-G-2165 | .003", use as required, 4 holes.                                |
|      |                                   |               | 3   | 2803-H-2166 | .005", use as required, 4 holes.                                |
|      |                                   |               | 2   | 2803-J-2168 | .010", use as required, 4 holes.                                |
| 116  | Cap-rear output forward cap       | All           | 1   | 3866-T-748  | Stamping, 3 holes on 3.25" bolt circle, closed end.             |
| 117  | Washer-rear output forward cap    | A1            | 3   | 1229-K-1597 | 0.75" O.D., 0.41" I.D., 0.09" thick.                            |
|      |                                   | All others    | 3   | WA-16       | 0.67" O.D., 0.39" I.D., 0.09" thick.                            |
| 118  | Capscrew-rear output fwd. cap     | All           | 3   | S-267-2     | 0.38"-16", 0.88" long, grade 8.                                 |
| 119  | Capscrew-idler shaft rear cap     | All           | 3   | S-267-2     | 0.38"-16", 0.88" long, grade 8.                                 |
| 120  | Washer-idler shaft rear cap       | A1            | 3   | 1229-K-1597 | 0.75" O.D., 0.41" I.D., 0.09" thick.                            |
|      |                                   | All others    | 3   | WA-16       | 0.67" O.D., 0.39" I.D., 0.09" thick.                            |
| 121  | Cap-idler shaft rear              | All           | 1   | 3866-T-748  | Stamping, 3 holes on 3.25" bolt circle, closed end.             |
| 122  | Gasket-idler shaft rear cap       | All           | -   | 2297-Z-6656 | Silicone gasket, use as required.*                              |
| 123  | Snap Ring-idler shaft             | -             | 1   | 1854-E-187  | Not used on 221 models in this book.                            |
| 124  | Cup-idler shaft rear brg.         | All           | 1   | 15245       | 2.44" bore.                                                     |
| 125  | Cone-idler shaft rear brg.        | All           | 1   | 15126       | 1.25" bore.                                                     |
| 126  | Gear-idler shaft                  | All           | 1   | 3892-W-1713 | 34T, R.H., Helical, 5.12" O.D., 1.63"-10T spline.               |
| 127  | Spacer-idler shaft gear           | All           | 1   | 1844-D-498  | 2.13" O.D., 1.69" I.D., 1.16" wide.                             |
| 128  | Gear-low speed (1.796-1)          | All           | 1   | 3892-W-1713 | 37T, spur, 6.44" O.D., 1.63"-10T spline.                        |
|      | Gear-low speed (1.94-1)           |               | 1   | 3892-Z-1716 | 38T, spur, 6.61" O.D., 1.63"-10T spline.                        |
| 129  | Shaft-idler                       | All           | 1   | 3880-N-742  | 5.38" long, 1.25" bearing diameter both ends, 1.63"-10T spline. |
| 130  | Cone idler shaft front brg.       | All           | 1   | 02476       | 1.25" bore.                                                     |
| 131  | Cup-idler shaft front brg.        | All           | 1   | 02420       | 2.69" O.D.                                                      |
| 132  | Washer-idler shaft brg.           | -             | 1   | 1829-H-788  | Not used on 221 models in this book.                            |
| 133  | Capscrew-idler shaft brg. washer  | -             | 1   | 10-X-1292   | Not used on 221 models in this book.                            |
| 134  | Lockwire-idler shaft brg. washer  | -             | 1   | LW-163      | Not used on 221 models in this book.                            |
| 135  | Shim-idler shaft front brg. cap   | A1, M         | 1   | 2803-V-1868 | .003", use as required, 3 holes.                                |
|      |                                   |               | 1   | 2803-W-1869 | .005", use as required, 3 holes.                                |
|      |                                   |               | 3   | 2803-X-1870 | .010", use as required, 3 holes.                                |
|      |                                   | All others    | 2   | 2803-V-1868 | .003", use as required, 3 holes.                                |
|      |                                   |               | 3   | 2803-W-1869 | .005", use as required, 3 holes.                                |
|      |                                   |               | 2   | 2803-X-1870 | .010", use as required, 3 holes.                                |
| 136  | Cap-idler shaft front brg.        | All           | 1   | 3866-T-748  | Stamping, 3 holes on 3.25" bolt circle, closed end.             |
| 137  | Washer-idler shaft front brg.     | A1            | 3   | 1229-K-1597 | 0.75" O.D., 0.41" I.D., 0.09" thick.                            |
|      |                                   | All others    | 3   | WA-16       | 0.67" O.D., 0.39" I.D., 0.09" thick.                            |
| 138  | Capscrew-idler shaft front brg.   | All           | 3   | S-267-2     | 0.38"-16, 0.88" long, grade 8.                                  |
| 139  | Cotter-output shaft nut           | All           | 1   | K-2412      | 0.13" diameter, 1.50" long.                                     |
| 140  | Nut-output shaft                  | A1, M, M6, M7 | 1   | 1827-H-242  | 0.88"-14, 0.50" high, slotted.                                  |
|      |                                   | All others    | 1   | N-512-1     | 0.75"-16, slotted, grade 8.                                     |
| 141  | Washer-output shaft               | N4, N7        | 1   | 1229-V-1556 | 1.38" O.D., 0.78" I.D., 0.12" thick.                            |
| 142  | Capscrew-oil catcher              | -             | 1   | 10-X-830    | Not used on 221 models in this book.                            |
| 143  | Washer-front brg. cap             | -             | 1   | 1229-K-1597 | Not used on 221 models in this book.                            |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# T-221 SERIES MAIN CASE

| ITEM | PART NAME                            | MODEL        | QTY | PART NUMBER    | DESCRIPTION                                                                                                                                                             |
|------|--------------------------------------|--------------|-----|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 144  | Flange/Yoke-front output             | M, M6, M7    | 1   | A1-3897-A-1431 | 1310 series, 3.69" long, 1.25"-10T spline, includes item 145 (2847-P-640).                                                                                              |
|      |                                      | N4           | 1   | A-3897-C-2811  | 1310 yoke, 3.38" long, 1.25"-10T spline, includes item 145 (2847-K-791).                                                                                                |
|      |                                      | N7           | 1   | A-3897-D-3072  | Same as C-2811 except undercut versus radius on deflector seat, includes item 145 (2847-K-791).                                                                         |
| 145  | Deflector-front output yoke          | M, M6, M7    | 1   | 2847-P-640     | Hook shape (cross section), 2.75" O.D., 1.76" I.D., 0.50" wide, included in item 144.                                                                                   |
|      |                                      | N4, N7       | 1   | 2847-K-791     | "S" shape (cross section), 2.75" O.D., 1.78" I.D., 0.50" wide, included in item 144. Part no longer available.                                                          |
| 146  | Capscrew-front brg. cap              | All          | 3   | S-2612-2       | 0.38"-16, 1.50" long, grade 8. Replaces S-2611-1 which is 1.38" long.                                                                                                   |
| 147  | Washer-front brg. cap                | A1           | 3   | 1229-K-1597    | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                    |
|      |                                      | All others   | 3   | WA-16          | 0.67" O.D., 0.39" I.D., 0.09" thick.                                                                                                                                    |
| 148  | Oil Seal-output shaft front          | All          | 1   | A-1805-E-447   | 2.50" O.D., 1.75" I.D., 0.77" wide, double seal lip and case, included in item 149.                                                                                     |
| 149  | Cap Assy.-output shaft front         | All          | 1   | A3-3866-U-749  | 3 holes on 3.75" bolt circle, open end, includes item 148.                                                                                                              |
| 150  | Gasket-output shaft front cap        | All          | -   | 2297-Z-6656    | Silicone gasket, use as required.*                                                                                                                                      |
| 151  | Bearing-output shaft front           | All          | 1   | 1228-V-308     | Ball bearing, with snap ring, 2.83" O.D., 1.38" bore, 0.67" wide.                                                                                                       |
| 152  | Oil Catcher-output shaft             | -            | 1   | 2847-Q-849     | Not used on 221 models in this book.                                                                                                                                    |
| 153  | Washer-oil catcher                   | -            | 1   | WA-36          | Not used on 221 models in this book.                                                                                                                                    |
| 154  | Pin-oil catcher                      | -            | 1   | K-236          | Not used on 221 models in this book.                                                                                                                                    |
| 155  | Shaft-front output                   | A1, M, M6 M7 | 1   | 3880-R-746     | 9.50" long, 3.34" from threaded end to 1.70" diameter. Replaces A-3880-R-746 which has snap ring and groove.                                                            |
|      |                                      | All others   | 1   | 3880-T-1112    | 9.69" long, 3.53" from 0.75"-16, threaded end to 1.75" diameter.                                                                                                        |
| 156  | Snap Ring-front output shaft         | N4, N7       | 1   | 1854-P-146     | Fits over 1.75" diameter shaft. Part no longer available.                                                                                                               |
| 157  | Clutch-front output sliding          | All          | 1   | 3892-T-1710    | 19T, spur, 2.57" O.D., 1.63"-10T spline, with shift groove.                                                                                                             |
| 158  | Gear-front output shaft              | All          | 1   | 3892-S-1709    | 33T, L.H., Helical, 4.97" O.D., on shaft with 16T spline, 1.77" O.D.                                                                                                    |
| 159  | Bearing-front output shaft rear      | All          | 1   | 1828-F-110     | Ball bearing, with snap ring, 3.35" O.D., 1.77" I.D., 0.75" wide.                                                                                                       |
| 160  | Oil Seal-front output shaft rear     | A1           | 1   | A-1205-Z-1768  | 2.88" O.D., 2.19" I.D., included in item 163.                                                                                                                           |
|      |                                      | M, M6, M7    | 1   | A-1805-E-447   | 2.50" O.D., 1.75" I.D., 0.77" wide, double seal lip, and case, with spring.                                                                                             |
| 161  | Spacer-front output shaft            | N4, N7       | 1   | 1844-G-501     | 2.13" O.D., 1.81" I.D., 1.38" wide. Part no longer available.                                                                                                           |
| 162  | Gasket-front output rear cap         | All          | -   | 2297-Z-6656    | Silicone gasket, use as required.*                                                                                                                                      |
| 163  | Cap Assy.-front output shaft rear    | A1           | 1   | A1-3866-S-747  | 3866-H-1256 cast, internal brake mounting, 4 holes on 4.25" bolt circle, 4 threaded holes on 3.75" bolt circle, includes item 160 (A-1205-Z-1768). No longer available. |
|      |                                      | All others   | 1   | 3866-X-752     | 3866-E-317 cast, enclosed cap with 4 holes on 4.25" bolt circle. No longer avail.                                                                                       |
| 164  | Washer-front output shaft rear cap   | A1           | 4   | 1229-K-1597    | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                                                                                                    |
|      |                                      | All others   | 4   | WA-16          | 0.67" O.D., 0.39" I.D., 0.09" thick.                                                                                                                                    |
| 165  | Capscrew-front output shaft rear cap | A1, N4, N7   | 4   | S-268-2        | 0.38"-16, 1.00" long, grade 8.                                                                                                                                          |
|      |                                      | All others   | 4   | S-269-1        | 0.38"-16, 1.12" long, grade 8.                                                                                                                                          |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# T-221 SERIES MAIN CASE

| ITEM | PART NAME                         | MODEL         | QTY | PART NUMBER   | DESCRIPTION                                                                                  |
|------|-----------------------------------|---------------|-----|---------------|----------------------------------------------------------------------------------------------|
| 166  | Stud-rear output shaft            | -             | 1   | 4-X-840       | Not used on 221 model in this book.                                                          |
| 167  | Nut-rear output shaft             | -             | 1   | N-16-1        | Not used on 221 model in this book.                                                          |
| 168  | Expansion Plug-front output shaft | A1            | 1   | PW-221        | 1.31" O.D., 0.08" thick.                                                                     |
| 169  | Hub-brake                         | -             | 1   | 3897-F-1332   | Not used on 221 model in this book.                                                          |
| 170  | Snap Ring-brake hub               | A1, M, M6, M7 | 1   | 1854-P-146    | 1.63" assembled, 0.09" thick. Part no longer available.                                      |
| 171  | Expansion Plug-brake hub          | A1            | 1   | PW-221        | 1.31" O.D., 0.08" thick.                                                                     |
| 188  | Case-transfer                     | A1            | 1   | 3875-B-444    | 3875-A-443 rough part, less interlock, A, D, E, and F mounting bosses.                       |
|      |                                   | M             | 1   | 3875-W-491    | 5875-L-506 rough part, with interlock, C, D, E, and F mounting bosses.                       |
|      |                                   | M6, M7        | 1   | 3875-L-558    | 5875-S-513 rough part, with interlock, B, E, and F mounting bosses.                          |
|      |                                   | N4, N7        | 1   | 3875-M-793    | 5875-L-792 rough part, with interlock, D (modified), E and F mounting bosses.                |
| 189  | Name Plate                        | -             | 1   | 1199-K-1493   | Not used on 221 models in this book.                                                         |
| 190  | Screw-name plate                  | -             | 2   | 9-X-16        | Not used on 221 models in this book.                                                         |
| 191  | Expansion Plug-shift shaft        | All           | 1   | PW-216        | 1.00" O.D., 0.08" thick.                                                                     |
| 192  | Plug-oil drain                    | N4, N7        | 1   | P-24          | Female, non-magnetic, 0.25"-18 thread.                                                       |
| 193  | Expansion Plug-shift shaft        | All           | 1   | 1850-X-76     | 0.06" thick, 1.00" long.                                                                     |
| 194  | Plug-oil drain                    | All           | 1   | P-112         | Male, square head, 0.75"-14 thread.                                                          |
| 195  | Plug-oil level                    | All           | 1   | P-112         | Male, square head, 0.75"-14 thread.                                                          |
| 196  | Oil Catcher-input                 | -             | 1   | 1898-X-856    | Not used on 221 models in this book.                                                         |
| 197  | Plug-oil high level               | -             | 1   | P-112         | Not used on 221 models in this book.                                                         |
| 198  | Elbow-high oil level              | -             | 1   | 1898-X-258    | Not used on 221 models in this book.                                                         |
| 199  | Plug-oil level                    | -             | 1   | P-112         | Not used on 221 models in this book.                                                         |
| 200  | Oil Seal-shift shaft              | All           | 1   | A-1205-N-1132 | 1.25" O.D., 0.75" I.D., single lip and dirt lip. Replaces A-1805-S-305 with single lip only. |
| 201  | Oil Seal-shift shaft              | All           | 1   | A-1205-N-1132 | 1.25" O.D., 0.75" I.D., single lip and dirt lip. Replaces A-1805-S-305 with single lip only. |
| 202  | Shift Fork-declutch               | All           | 1   | 2849-E-239    | 2849-X-336 forging, 2.03" shift fork opening.                                                |
| 203  | Lockwire-shift fork               | All           | 1   | LW-166        | 16 gage, 6.00" long.                                                                         |
| 204  | Lockscrew-shift fork              | All           | 1   | 26-X-54       | 0.38"-24, 1.16" long, square head.                                                           |
| 205  | Shift Shaft-declutch              | A1            | 1   | 2843-A-417    | 4.88" long. No longer available.                                                             |
|      |                                   | All others    | 1   | 2843-C-419    | 5.06" long. No longer available.                                                             |
| 206  | Shift Shaft-hi-low                | A1            | 1   | 2843-Z-416    | Setscrew hole 150 degrees left of vertical. No longer available.                             |
|      |                                   | All others    | 1   | 2843-B-418    | Set screw hole 30 degrees right of vertical. No longer available.                            |
| 207  | Shift Fork-hi-low                 | All           | 1   | 2849-E-239    | 2849-X-336 forging, 2.03" shift fork opening.                                                |
| 208  | Lockwire-shift fork               | All           | 1   | LW-166        | 16 gage, 6.00" long.                                                                         |
| 209  | Lockscrew-shift fork              | All           | 1   | 26-X-54       | 0.38"-24, 1.16" long, square head.                                                           |
| 210  | Washer-case and top cover         | A1            | 10  | 1229-K-1597   | 0.75" O.D., 0.41" I.D., 0.09" thick.                                                         |
|      |                                   | All others    | 9   | WA-16         | 0.67" O.D., 0.39" I.D., 0.09" thick.                                                         |
| 211  | Capscrew-case and top cover       | A1            | 9   | S-268-2       | 0.38"-16, 1.00" long, grade 8.                                                               |
| 212  | Breather-oil                      | All           | 1   | A-1199-C-1043 | 0.13"-27 N.P.T.F., 1.03" long.                                                               |
| 213  | Capscrew-case top cover           | -             | 1   | S-2610-2      | 0.38"-16, 1.25" long, grade 8.                                                               |
| 214  | Dowel-T -case and cover           | -             | 1   | 1846-X-284    | Not used on 221 models in this book.                                                         |
| 215  | Pin-brake bellcrank               | A1            | 1   | 1846-E-265    | 0.63" O.D., 1.66" long with 1 hole 0.16" diameter.                                           |
| 216  | Ball-shift shaft lock             | All           | 1   | 1898-E-57     | 0.44" diameter ball.                                                                         |
| 217  | Spring-shift shaft lock           | A1, M, M6, M7 | 1   | 2858-A-1      | 13 coils, 1.88" free length.                                                                 |
|      |                                   | All others    | 1   | 2858-Q-277    | 0.44" diameter, 1.52" free length. Part no longer available.                                 |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

## T-221 SERIES MAIN CASE

| ITEM | PART NAME                 | MODEL             | QTY | PART NUMBER  | DESCRIPTION                                                                        |
|------|---------------------------|-------------------|-----|--------------|------------------------------------------------------------------------------------|
| 218  | Ball-shift shaft lock     | All               | 1   | 1898-E-57    | 0.44" diameter.                                                                    |
| 219  | Spring-shift shaft lock   | A1, M, M6, M7     | 1   | 2858-A-1     | 13 coils, 1.88" free length.                                                       |
|      |                           | All others        | 1   | 2858-Q-277   | 0.44" diameter, 1.52" free length. Part no longer available.                       |
| 220  | Pull Rod-brake            | A1                | 1   | 1845-A-27    | 1.65" diameter shaft, 0.10" thick.                                                 |
| 221  | Washer-brake pull rod     | A1                | 1   | WA-36        | 0.81" O.D., 0.40" I.D., 0.06" thick.                                               |
| 222  | Washer-brake pull rod     | A1                | 1   | WA-36        | 0.81" O.D., 0.40" I.D., 0.06" thick.                                               |
| 223  | Bellcrank-brake operating | A1                | 1   | 302-T-540    | 0.63" dia. ream, 0.38" thick.                                                      |
| 224  | Cotter-bellcrank pin      | A1                | 1   | K-248        | 0.13" diameter, 1.00" long.                                                        |
| 225  | Washer-bellcrank pin      | A1                | 1   | WA-310       | 1.31" O.D., 0.66" I.D., 0.10" thick.                                               |
| 226  | Cotter-brake pull rod     | A1                | 1   | K-236        | 0.10" diameter, 0.75" long.                                                        |
| 227  | Cotter-brake pull rod     | A1                | 1   | K-236        | 0.10" diameter, 0.75" long.                                                        |
| 228  | Gasket-cover              | All               | -   | 2297-Z-6656  | Silicone gasket, use as required.*                                                 |
| 229  | Cover Assy.-T -case top   | A1                | 1   | A-3855-G-267 | No cast bosses on underside. Part no longer available.                             |
|      |                           | All others        | 1   | 3855-X-258   | 3855-L-506 cast, breather hole in center and 2 cast interlock bosses on underside. |
| 230  | Shaft-shift interlock     | M, M6, M7, N4, N7 | 1   | 1846-H-268   | 0.38" diameter, 6.16" long.                                                        |

## T-221 SERIES DLM BRAKES

| ITEM | PART NAME                    | MODEL | QTY | PART NUMBER    | DESCRIPTION                                                                                 |
|------|------------------------------|-------|-----|----------------|---------------------------------------------------------------------------------------------|
| 172  | Gasket-brake oil deflector   | -     | -   | 2297-Z-6656    | Not used on 221 models in this book.                                                        |
| 173  | Oil Deflector-brake          | -     | 1   | 2847-S-617     | Not used on 221 models in this book.                                                        |
| 174  | Washer-brake oil deflector   | -     | 1   | 1829-Z-754     | Not used on 221 models in this book.                                                        |
| 175  | Backing Plate Assy.          | A1    | 1   | A-3736-R-200   | 7.25" x 1.50" DLM, 0.40" diameter-4 holes on 3.70" bolt circle.                             |
| 176  | Washer-brake mtg. capscrew   | -     | 4   | 1229-E-1513    | Not used on 221 models in this book.                                                        |
| 177  | Capscrew-brake mounting      | A1    | 4   | S-266-2        | 0.38"-16, 0.75" long, grade 8.                                                              |
| 178  | Lever-brake                  | A1    | 1   | 372-D-134      | 372-K-89 stamping, 0.38" diameter.                                                          |
| 179  | Roller-brake                 | A1    | 2   | 1779-P-94      | 0.75" O.D., 0.44" I.D., 0.25" thick.                                                        |
| 180  | Spring-brake shoe return     | A1    | 2   | 2258-Q-719     | Tension spring, 0.50" O.D., 12 coils 2.63" length at 20 lb. load. Part no longer available. |
| 181  | Brake Shoe and Lining Assy.  | A1    | 2   | A13-3722-T-202 | Includes lining.                                                                            |
| 182  | Rivet-lining to shoe         | -     | -   | -              | Not used on 221 models in this book.                                                        |
| 183  | Lining-brake shoe            | -     | -   | -              | Not sold separately, bonded lining.                                                         |
| 184  | Drum-brake                   | A1    | 1   | 3719-F-58      | 2.50" pilot diameter, 0.38" diameter-4 holes on 3.13" bolt circle.                          |
| 185  | Washer-brake drum capscrew   | -     | 4   | 1229-E-1513    | Not used on 221 models in this book.                                                        |
| 186  | Lockwire-brake drum capscrew | A1    | 1   | LW-1610        | 16 gage, 10" long.                                                                          |
| 187  | Capscrew-brake drum          | A1    | 4   | 10-X-1254      | 0.38"-16, 0.75" long, with drilled hole, grade 8.                                           |

\* All preformed gaskets are replaced with silicone liquid gasket at time of service.

# NUMERICAL PARTS LISTING

| PART<br>NUMBER | PAGE                                                            |
|----------------|-----------------------------------------------------------------|
| 3-X-161        | 13                                                              |
| 4-X-840        | 25, 39                                                          |
| 4-X-1521       | 13                                                              |
| 9-X-16         | 26, 39                                                          |
| 10-X-665       | 36                                                              |
| 10-X-830       | 23, 37                                                          |
| 10-X-1254      | 40                                                              |
| 10-X-1292      | 22, 37                                                          |
| 16-X-40        | 13                                                              |
| 26-X-54        | 28, 29, 39                                                      |
| 26-X-56        | 13                                                              |
| 302-T-540      | 30, 40                                                          |
| 372-D-134      | 40                                                              |
| 372-X-206      | 34                                                              |
| 372-B-210      | 34                                                              |
| 1199-J-894     | 27                                                              |
| A-1199-C-1043  | 20, 29, 36, 39                                                  |
| 1199-M-1105    | 19, 36                                                          |
| 1199-N-1106    | 19                                                              |
| 1199-K-1493    | 26, 39                                                          |
| 1199-K-3287    | 26, 27                                                          |
| A-1205-N-1132  | 28, 39                                                          |
| A-1205-T-1242  | 17                                                              |
| A-1205-Z-1768  | 38                                                              |
| 1227-L-714     | 13                                                              |
| 1227-C-939     | 18, 19, 22                                                      |
| 1228-K-37      | 14                                                              |
| 1228-A-183     | 24                                                              |
| 1228-V-308     | 38                                                              |
| 1228-R-408     | 16                                                              |
| 1228-S-409     | 15                                                              |
| 1228-B-1380    | 24                                                              |
| 1229-E-421     | 13, 14                                                          |
| 1229-E-525     | 36                                                              |
| 1229-E-1331    | 13, 18, 19, 36                                                  |
| 1229-E-1513    | 32, 33, 40                                                      |
| 1229-V-1556    | 37                                                              |
| 1229-K-1597    | 14, 15, 17, 19,<br>20, 22, 23, 25,<br>29, 35, 36, 37,<br>38, 39 |
| 1229-E-1669    | 13, 14                                                          |
| 1229-F-2814    | 16, 17                                                          |
| 1229-E-3047    | 16                                                              |
| 1229-F-3048    | 16, 17, 35                                                      |
| 1229-C-4553    | 18, 19                                                          |
| 1244-Q-1629    | 24                                                              |
| 1250-G-475     | 27                                                              |
| 1254-M-91      | 24                                                              |
| 1779-P-94      | 40                                                              |
| 1779-Z-260     | 34                                                              |

| PART<br>NUMBER | PAGE       |
|----------------|------------|
| A-1805-B-158   | 13         |
| A-1805-N-352   | 13         |
| A-1805-R-408   | 17, 23     |
| A-1805-E-447   | 36, 38     |
| A-1805-P-536   | 24         |
| A-1805-A-573   | 17, 19     |
| 1825-R-200     | 15         |
| 1825-W-205     | 35         |
| 1827-H-242     | 36, 37     |
| 1828-V-74      | 23         |
| 1828-P-94      | 35         |
| 1828-F-110     | 38         |
| 1828-L-142     | 35         |
| 1829-V-100     | 18, 22, 36 |
| 1828-S-149     | 24         |
| 1829-J-244     | 13         |
| 1829-P-380     | 15         |
| 1829-M-585     | 18, 19     |
| 1829-D-680     | 14         |
| 1829-S-721     | 15         |
| 1829-X-726     | 35         |
| 1829-Y-727     | 35         |
| 1829-Z-754     | 32, 40     |
| 1829-H-788     | 22, 37     |
| 1844-J-166     | 20         |
| 1844-L-480     | 21         |
| 1844-D-498     | 37         |
| 1844-G-501     | 38         |
| 1844-S-565     | 20         |
| 1844-C-809     | 16, 35     |
| 1845-A-27      | 30, 40     |
| 1846-V-126     | 14         |
| 1846-B-262     | 30         |
| 1846-D-264     | 31         |
| 1846-E-265     | 39         |
| 1846-H-268     | 40         |
| 1846-X-284     | 30, 39     |
| A-1850-R-18    | 19, 36     |
| 1850-X-76      | 39         |
| 1850-T-150     | 13, 27     |
| 1854-P-146     | 38, 39     |
| 1854-E-187     | 21, 37     |
| 1854-W-257     | 25         |
| 1874-A-105     | 13         |
| 1898-H-34      | 13         |
| 1898-C-55      | 13         |
| 1898-E-57      | 30, 39, 40 |
| 1898-S-201     | 28         |
| 1898-G-241     | 14         |
| 1898-Q-251     | 14         |
| 1898-X-258     | 28, 39     |

| PART<br>NUMBER | PAGE                                                            |
|----------------|-----------------------------------------------------------------|
| 1898-A-261     | 27                                                              |
| 1898-P-848     | 36                                                              |
| 1898-J-504     | 14                                                              |
| 1898-K-531     | 14                                                              |
| 1898-L-532     | 14                                                              |
| A-1898-W-595   | 14                                                              |
| 1898-U-671     | 19, 36                                                          |
| 1898-V-776     | 19                                                              |
| 1898-S-799     | 20                                                              |
| 1898-C-835     | 28                                                              |
| 1898-D-836     | 28                                                              |
| 1898-N-846     | 36                                                              |
| 1898-Q-849     | 36                                                              |
| 1898-X-856     | 27, 39                                                          |
| 1898-H-866     | 14                                                              |
| 1898-J-868     | 14                                                              |
| 2000-J-1362    | 34                                                              |
| 2000-S-1397    | 33                                                              |
| 2244-M-39      | 28                                                              |
| 2245-X-50      | 19                                                              |
| 2247-K-1259    | 32                                                              |
| 2258-Q-719     | 32, 40                                                          |
| 2258-T-1268    | 32                                                              |
| 2296-W-1063    | 27                                                              |
| 2297-S-695     | 23                                                              |
| 2297-P-2226    | 29                                                              |
| 2297-Z-6656    | 13, 14, 15, 20,<br>21, 23, 24, 30,<br>32, 35, 36, 37,<br>38, 40 |
| 2297-L-6720    | 32                                                              |
| 2710-U-151     | 34                                                              |
| 2758-A-53      | 34                                                              |
| 2803-V-568     | 13                                                              |
| 2803-W-569     | 13                                                              |
| 2803-X-570     | 13                                                              |
| 2803-L-1832    | 16                                                              |
| 2803-M-1833    | 16                                                              |
| 2803-N-1834    | 16                                                              |
| 2803-Z-1846    | 20, 22                                                          |
| 2803-A-1847    | 20, 22                                                          |
| 2803-B-1848    | 20, 22                                                          |
| 2803-S-1865    | 35                                                              |
| 2803-T-1866    | 35                                                              |
| 2803-U-1867    | 35                                                              |
| 2803-V-1868    | 37                                                              |
| 2803-W-1869    | 37                                                              |
| 2803-X-1870    | 37                                                              |
| 2803-B-1874    | 16                                                              |
| 2803-C-1875    | 16                                                              |
| 2803-D-1876    | 16                                                              |

# NUMERICAL PARTS LISTING

| PART<br>NUMBER | PAGE       |
|----------------|------------|
| 2803-G-1931    | 17         |
| 2803-H-1932    | 17         |
| 2803-J-1934    | 17         |
| 2803-D-2162    | 35         |
| 2803-E-2163    | 35         |
| 2803-F-2164    | 35         |
| 2803-G-2165    | 37         |
| 2803-H-2166    | 37         |
| 2803-J-2168    | 37         |
| 2843-C-107     | 13         |
| 2843-B-392     | 29         |
| 2843-C-393     | 28         |
| 2843-S-409     | 29         |
| 2843-T-410     | 28         |
| 2843-Z-416     | 39         |
| 2843-A-417     | 39         |
| 2843-B-418     | 39         |
| 2843-C-419     | 39         |
| 2843-W-439     | 28         |
| 2843-X-440     | 29         |
| 2843-K-453     | 29         |
| 2843-P-458     | 29         |
| 2843-Q-459     | 28         |
| 2843-U-463     | 29         |
| 2847-E-291     | 13         |
| A2-2847-Q-303  | 14         |
| 2847-S-617     | 18, 32, 40 |
| 2847-P-640     | 18, 36, 38 |
| A-2847-R-642   | 14         |
| 2847-K-791     | 38         |
| 2847-Q-849     | 23, 38     |
| 2848-H-86      | 14         |
| 2848-J-88      | 14         |
| 2848-E-161     | 24         |
| 2849-Y-77      | 13         |
| 2849-L-220     | 28         |
| 2849-E-239     | 39         |
| 2849-G-241     | 28         |
| 2849-U-281     | 29         |
| 2849-V-282     | 29         |
| 2858-A-1       | 30, 39, 40 |
| 2858-T-20      | 13         |
| 2858-W-101     | 14         |
| 2858-X-102     | 14         |
| 2858-B-236     | 30         |
| 2858-C-237     | 30         |
| 2858-Q-277     | 39, 40     |
| 3221-S-19      | 23         |
| 3260-H-1256    | 18         |
| 3266-Y-857     | 25         |
| A1-3280-R-7896 | 23         |

| PART<br>NUMBER | PAGE       |
|----------------|------------|
| 3280-S-7897    | 18         |
| 3290-Q-1005    | 26         |
| 3290-E-1071    | 26         |
| 3290-F-1072    | 26         |
| 3290-G-1073    | 26         |
| 3290-R-1084    | 26         |
| 3719-Y-51      | 33         |
| 3719-F-58      | 40         |
| A6-3722-L-194  | 33         |
| A13-3722-T-202 | 40         |
| A2-3722-G-501  | 34         |
| A-3736-R-200   | 40         |
| A1-3736-U-229  | 32         |
| A-3736-D-472   | 34         |
| A-3787-Q-17    | 34         |
| A-3819-E-525   | 34         |
| 3826-X-284     | 14         |
| A-3826-Y-285   | 13         |
| 3838-N-196     | 15         |
| A-3855-G-189   | 30         |
| A-3855-N-196   | 30         |
| 3855-B-210     | 30         |
| 3855-X-258     | 40         |
| A-3855-G-267   | 40         |
| 3855-J-270     | 30         |
| 3855-L-272     | 30         |
| 3855-S-279     | 30         |
| A-3866-S-357   | 13         |
| A-3866-S-721   | 17         |
| A-3866-B-730   | 23         |
| 3866-C-731     | 20, 21, 22 |
| A-3866-D-732   | 25         |
| A-3866-E-733   | 19         |
| 3866-R-746     | 35         |
| A1-3866-S-747  | 38         |
| 3866-T-748     | 37         |
| A3-3866-U-749  | 35, 38     |
| 3866-X-752     | 38         |
| 3866-C-757     | 17         |
| A-3866-W-777   | 25         |
| 3866-N-794     | 21, 22     |
| A-3866-X-804   | 17         |
| A1-3866-X-804  | 17         |
| A-3866-Y-805   | 36         |
| A-3866-C-887   | 25         |
| A-3866-G-891   | 19         |
| A-3866-Y-935   | 17         |
| A-3866-U-1113  | 35         |
| A-3866-R-1162  | 25         |
| 3875-V-438     | 26         |
| 3875-Q-433     | 26         |

| PART<br>NUMBER | PAGE   |
|----------------|--------|
| 3875-B-444     | 39     |
| 3875-A-469     | 26     |
| 3875-W-491     | 39     |
| 3875-K-531     | 26     |
| 3875-L-558     | 39     |
| 3875-M-793     | 39     |
| 3875-Z-884     | 26     |
| 3880-X-336     | 13     |
| 3880-U-723     | 21     |
| 3880-N-742     | 37     |
| 3880-P-744     | 35     |
| 3880-Q-745     | 36     |
| 3880-R-746     | 38     |
| 3880-A-807     | 21     |
| 3880-T-1112    | 38     |
| 3880-J-1128    | 35     |
| 3891-C-1849    | 19     |
| A-3892-J-1544  | 15     |
| 3892-P-1550    | 20     |
| A-3892-R-1604  | 15     |
| 3892-T-1606    | 21     |
| A-3892-W-1635  | 15     |
| 3892-Y-1637    | 21     |
| 3892-B-1640    | 21     |
| 3892-C-1641    | 21     |
| 3892-R-1708    | 36     |
| 3892-S-1709    | 38     |
| 3892-T-1710    | 38     |
| A-3892-U-1711  | 35     |
| 3892-V-1712    | 35     |
| 3892-W-1713    | 37     |
| A-3892-X-1714  | 35     |
| 3892-Y-1715    | 35     |
| 3892-Z-1716    | 37     |
| 3892-K-1805    | 21     |
| A-3892-L-1806  | 15     |
| 3892-W-2441    | 15     |
| 3892-X-2442    | 15     |
| 3892-Y-2443    | 15     |
| 3892-Z-2444    | 15     |
| 3897-N-1002    | 13     |
| 3897-F-1332    | 25, 39 |
| 3897-Q-1369    | 18, 23 |
| 3897-R-1370    | 18     |
| A1-3897-A-1431 | 36, 38 |
| 3897-J-1440    | 18     |
| 3897-K-1441    | 18, 23 |
| A1-3897-Q-1655 | 36     |
| 3897-L-1728    | 18, 23 |
| 3897-M-1729    | 18     |
| A-3897-T-1762  | 14     |

## NUMERICAL PARTS LISTING

| PART<br>NUMBER | PAGE                      |
|----------------|---------------------------|
| 3897-Y-1793    | 18                        |
| 3897-Z-1794    | 18, 23                    |
| 3897-K-1961    | 18                        |
| 3897-L-1962    | 18                        |
| 3897-P-1966    | 18                        |
| A-3897-C-2811  | 38                        |
| 3897-R-3008    | 25, 34                    |
| A-3897-D-3072  | 38                        |
| 332            | 13, 15, 35                |
| 335            | 13                        |
| 339            | 15, 35                    |
| 353            | 16, 35                    |
| 357            | 16, 35                    |
| 372            | 16                        |
| 376            | 16                        |
| 02420          | 37                        |
| 02476          | 37                        |
| 15126          | 36, 37                    |
| 15245          | 36, 37                    |
| 25520          | 20                        |
| 25584          | 20                        |
| 25821          | 20                        |
| 25878          | 20                        |
| 31521          | 21, 22                    |
| 31597          | 21                        |
| 155NYS24-6     | 23                        |
| 2WCS24-43      | 18, 23                    |
| 2WCS24-81      | 18, 23                    |
| 2WCS28-32      | 18                        |
| HM-89411       | 22                        |
| HM-89449       | 21                        |
| K-236          | 24, 30, 38, 40            |
| K-238          | 13                        |
| K-248          | 30, 40                    |
| K-2410         | 36                        |
| K-2412         | 13, 18, 19, 22,<br>36, 37 |
| KIT T-221-1    | 11                        |
| KIT T-221-3    | 11                        |
| KIT T-221-4    | 12                        |
| KIT T-221-5    | 12                        |
| KIT T-223-1    | 6                         |
| KIT T-223-2    | 6                         |
| KIT T-223-3    | 6                         |
| KIT T-223-4    | 7                         |
| KIT T-223-5    | 8                         |
| KIT T-223-6    | 9                         |
| KIT T-223-7    | 9                         |
| KIT T-223-8    | 9                         |
| LW-1610        | 40                        |
| LW-1616        | 33, 34                    |

| PART<br>NUMBER | PAGE                                     |
|----------------|------------------------------------------|
| LW-163         | 22, 37                                   |
| LW-166         | 28, 29, 39                               |
| MPS 3831       | 10, 24                                   |
| MPS 4118       | 10, 20                                   |
| MPS 4120       | 10, 16                                   |
| MPS 4121       | 10, 16                                   |
| MPS 4122       | 10, 15                                   |
| MPS 4123       | 10, 16                                   |
| MPS 4124       | 10, 16                                   |
| MPS 4126       | 11, 13                                   |
| MPS 4217       | 11, 24                                   |
| N-16-1         | 25, 39                                   |
| N-512-1        | 37                                       |
| NL-26-1        | 23                                       |
| NL-28-1        | 13                                       |
| P-24           | 27, 39                                   |
| P-42           | 17, 29, 35                               |
| P-112          | 27, 28, 39                               |
| P-212          | 27                                       |
| PW-210         | 14                                       |
| PW-214         | 26, 27                                   |
| PW-216         | 39                                       |
| PW-221         | 39                                       |
| PW-225         | 25                                       |
| PW-226         | 17, 36                                   |
| PW-252         | 26                                       |
| RV-354         | 33                                       |
| RV-875         | 34                                       |
| S-166D-2       | 34                                       |
| S-256P-2       | 13, 14                                   |
| S-266-2        | 40                                       |
| S-267-2        | 14, 37                                   |
| S-268-2        | 14, 15, 29, 35,<br>36, 38, 39            |
| S-269-1        | 14, 17, 19, 20,<br>22, 23, 25, 36,<br>38 |
| S-276D-2       | 33                                       |
| S-278A-2       | 32                                       |
| S-289A-2       | 34                                       |
| S-2610-2       | 25, 29, 39                               |
| S-2612-2       | 35, 38                                   |
| S-2614-2       | 36                                       |
| WA-16          | 35, 36, 37, 38,<br>39                    |
| WA-36          | 23, 30, 38, 40                           |
| WA-38          | 13                                       |
| WA-39          | 34                                       |
| WA-310         | 30, 40                                   |

| PART<br>NUMBER | PAGE |
|----------------|------|
|                |      |

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