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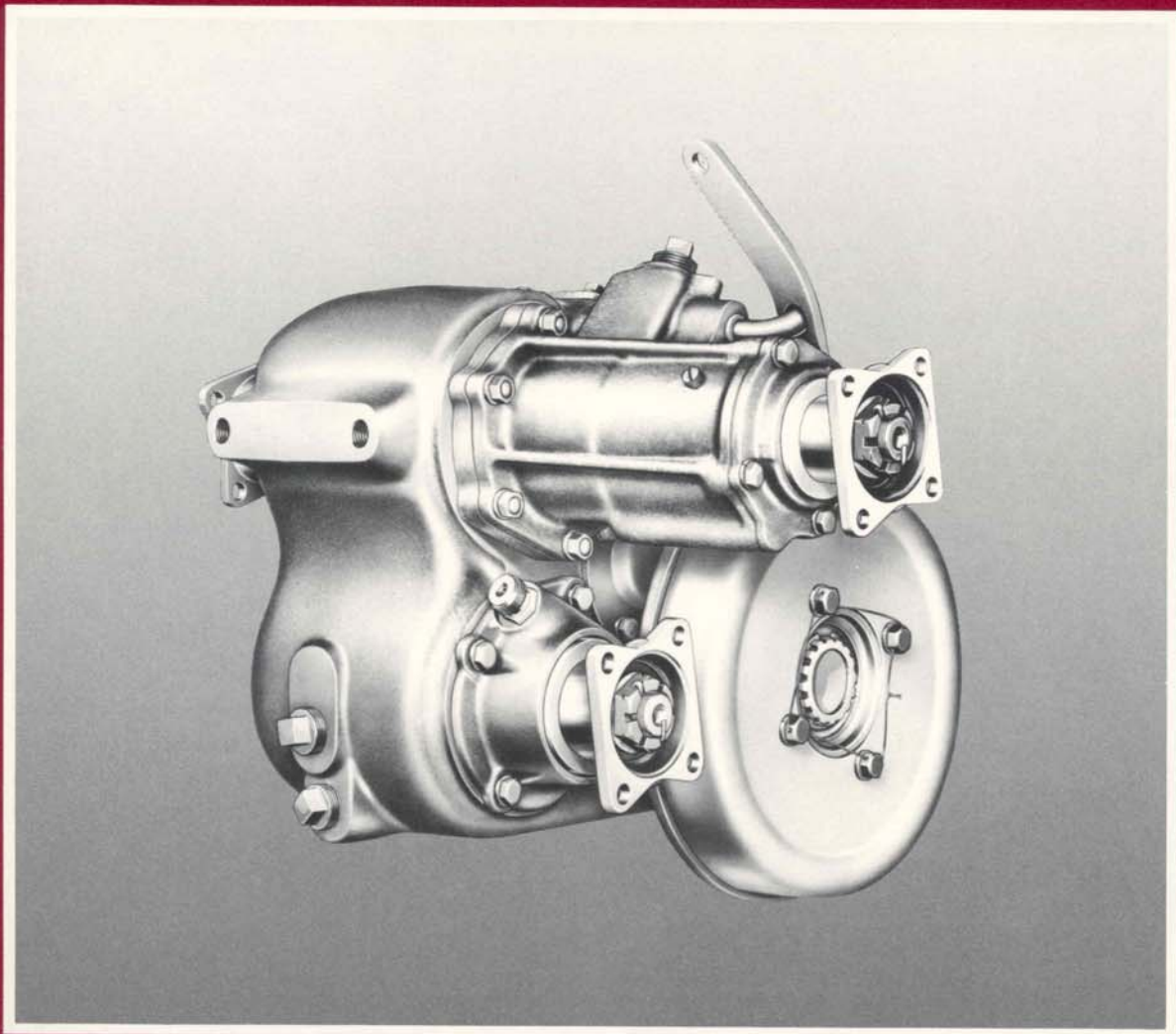
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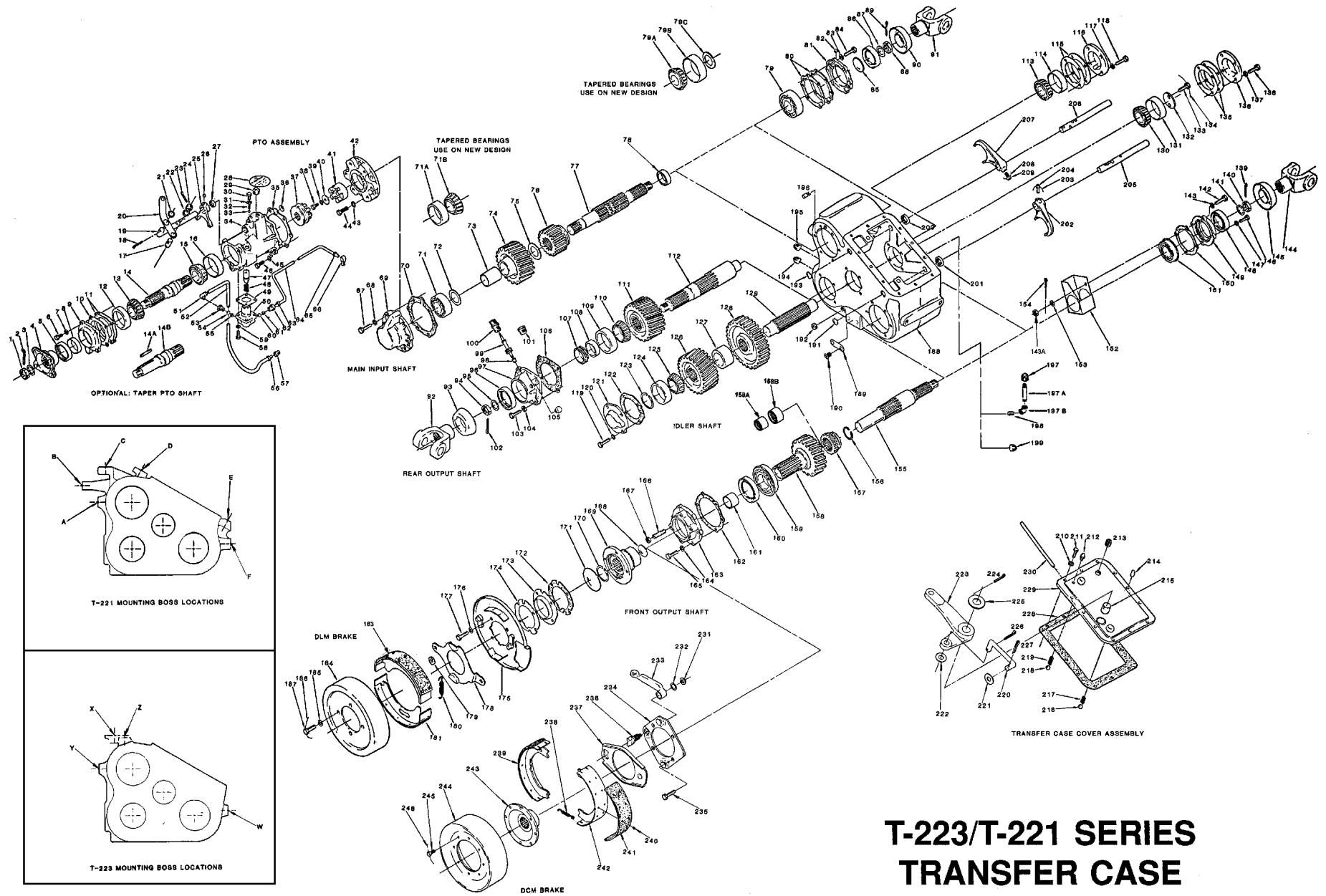
# T-223 and T-221 Series Transfer Cases



**MERITOR™**



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# 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 Included with the list of models covered is a list of superseded models.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.

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## T-223 SERIES SUPERSESSIONS

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 SUPERSESSIONS

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 BRAKE	DCM BRAKE	INTER- LOCK	SPEEDO GEARS	FLANGE/YOKE		
							INPUT	FRONT OUTPUT	REAR 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 BRAKE	DCM BRAKE	INTER- LOCK	SPEEDO GEARS	FLANGE/YOKE		
							INPUT	FRONT OUTPUT	REAR 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 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 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 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 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 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 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 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 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 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 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 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

## KIT T-221-5

## DLM 7-1/4" x 1-1/2" 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,	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)	C41, C43, C44, E22, E23, M4	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  (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.

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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
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".

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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.

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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.

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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.



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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.

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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.

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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
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, C30, C31, C32, C34, C41, C44, H40, H47, H48, H52, H53, H55, 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.

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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.

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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.
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.

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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.



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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.

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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.

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888-725-9355  
<http://www.meritorauto.com>

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