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PARTS MANUAL

FOR

MT14N/H SERIES

MARMON-HERRINGTON ALL-WHEEL DRIVE
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(502) 253-0277 • (800) 227-0727 • Fax (502) 253-0317
E-mail: info@marmon-herrington.com

PM12/04

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REPLACEMENT PARTS

When ordering replacement parts for **MARMON-HERRINGTON LOW FLOOR** conversions, the following information should be given:

1. **FACTORY ORDER NUMBER** (found on I.D. Plate or small plate affixed to axle housing). This will be a six (6) digit number. (See illustrations this page.)

2. Component for which parts are required, i.e. front drive axle or transfer case/drop box.

3. Model of axle and/or transfer case/drop box, i.e. MT10, MVG 750, MDB500.

4. Give quantity and part number required.
   NOTE: Drivelines, shift linkage, etc., can be found on the computer printout of Bill of Material, which is included in the Service Manual.

5. Give complete billing and shipping address.

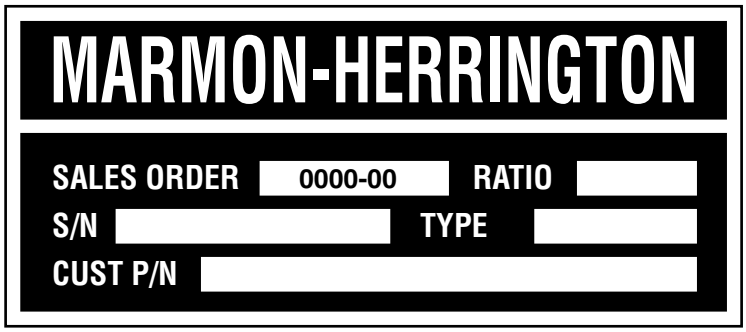
WARRANTY CLAIM PROCEDURE

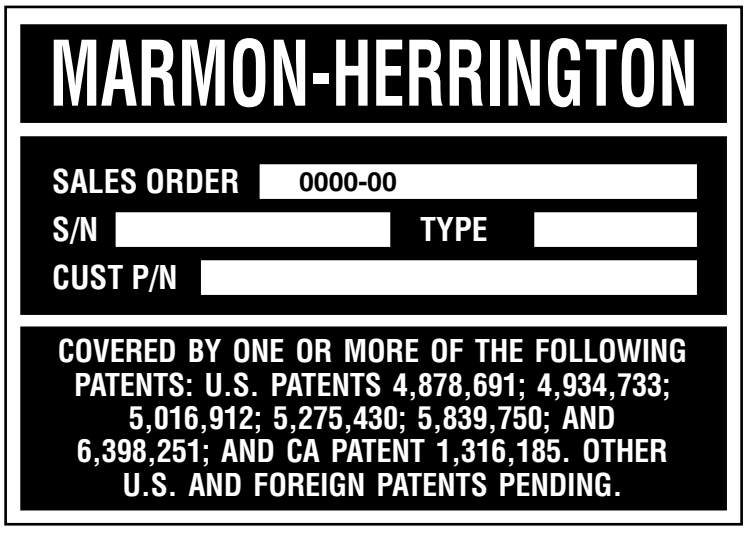
Before proceeding with repairs or ordering parts that you feel may be covered under warranty, you must first contact Marmon-Herrington Customer Service Department and obtain a Repair Authorization Number.

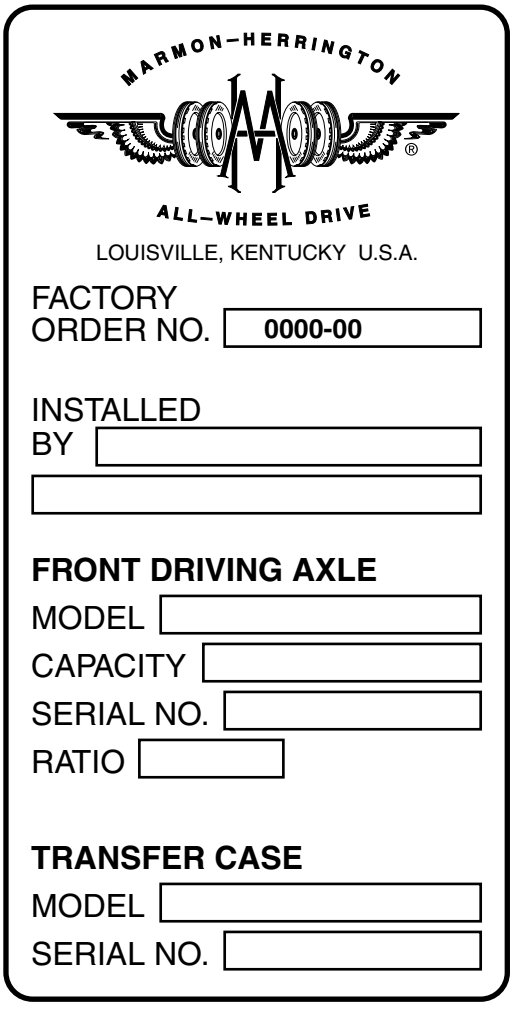
Please be prepared to supply all of the following information:

- **Factory Order Number** – This is located on an ID plate fixed to either the driver's door panel or the component (axle or transfer case) itself.
- **Model and Serial Number** (required) – Again located on the ID plate fixed to either the driver's door panel or the component itself.
- **Vehicle Year, Make and Model**
- **Vehicle Identification Number**
- **Mileage**
- **In Service Date**

The information necessary for replacement parts and/or warranty claim procedures will be found on either plate design.

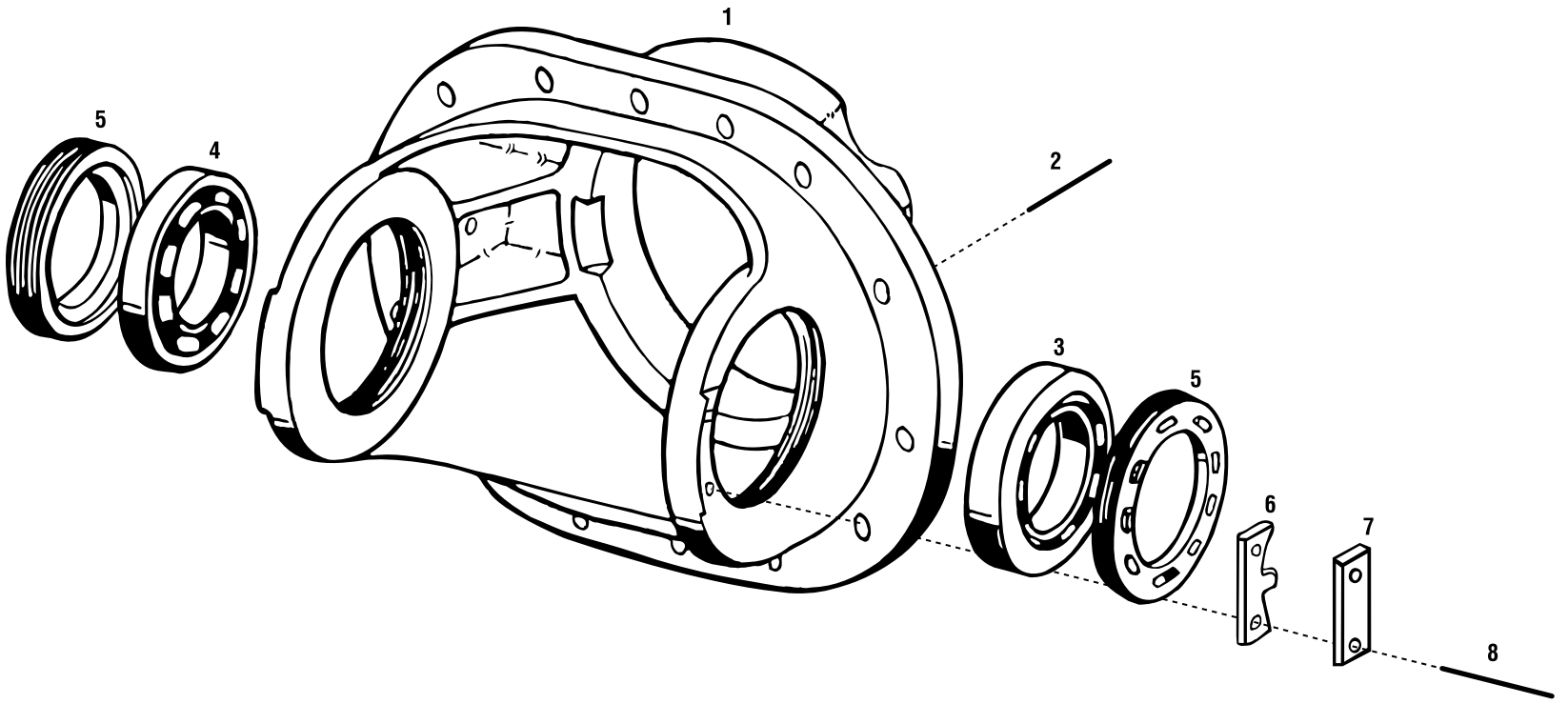






PM09/03

DIFFERENTIAL CARRIER HOUSING
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1076	Differential Carrier Housing Assy.	1				
2	MT22-1077	Flanged Bolt, Special	14				
3	MT22-1078	Differential Side Bearing Assy.	1				
4	MT22-1212	Differential Side Bearing Assy.	1				
5	MT22-1079	Bearing Adjuster	2				
6	MT22-1080	Lock Plate	2				
7	MT22-1081	Lock Plate	2				
8	11500773	Hex Bolt, M8x15-10.9	4				

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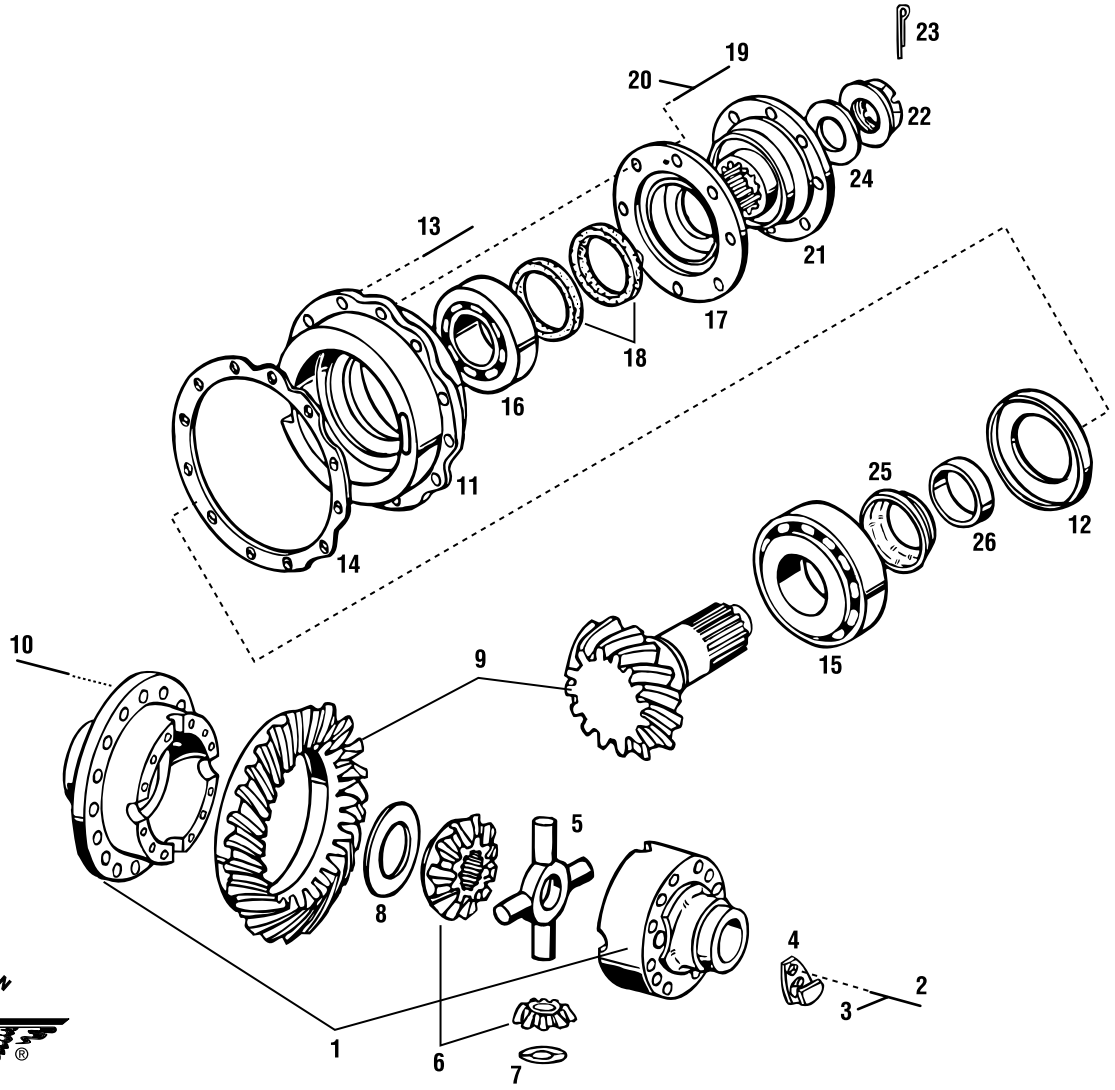
DIFFERENTIAL CARRIER HOUSING
MT14N/H

DIFFERENTIAL
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

COMPLETE CARRIER ASSEMBLY

CARRIER P/N	PINION & RING GEAR RATIO	FINAL RATIO	DIFFERENTIAL CASE
MT22-1001	1.227	4.25	MT22-1051
MT22-1002	1.318	4.56	MT22-1051
MT22-1003	1.422	4.92	MT22-1052
MT22-1004	1.526	5.29	MT22-1052
MT22-1010	1.553	5.38	MT22-1052
MT22-1005	1.632	5.65	MT22-1052
MT22-1014	1.684	5.83	MT22-1052
MT22-1013	1.765	6.11	MT22-1052
MT22-1006	1.812	6.27	MT22-1052
MT22-1007	1.929	6.68	MT22-1052
MT22-1008	2.077	7.14	MT22-1445
MT22-1009	2.231	7.72	MT22-1445
MT22-1011	2.415	8.36	MT22-1445
MT22-1012	2.462	8.52	MT22-1445

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1051	Diff. Case Halves, Assy. (4.25-4.56)	1
	MT22-1052	Diff. Case Halves, Assy. (4.92-6.68)	1
	MT22-1445	Diff. Case Halves, Assy. (7.14-8.52)	1
2	MT22-1066	Hex Bolt, Special	12
3	MT22-1065	Washer, Special	2
4	MT22-1064	Oil Baffle Plate	2
5	MT22-1061	Differential Cross	1
6	MT22-1193	Nest Set	1
7	MT22-1063	Washer, Differential Pinion Gear	4
8	MT22-1059	Washer, Differential Side Gear	2
9	MT22-1054	Ring Gear and Pinion (1.227) 4.25	1
	MT22-1053	Ring Gear and Pinion (1.318) 4.56	1
	MT22-1056	Ring Gear and Pinion (1.422) 4.92	1
	MT22-1057	Ring Gear and Pinion (1.526) 5.29	1
	MT22-1043	Ring Gear and Pinion (1.553) 5.38	1
	MT22-1055	Ring Gear and Pinion (1.632) 5.65	1
	MT22-1047	Ring Gear and Pinion (1.684) 5.83	1
	MT22-1046	Ring Gear and Pinion (1.765) 6.11	1
	MT22-1058	Ring Gear and Pinion (1.812) 6.27	1
	MT22-1040	Ring Gear and Pinion (1.929) 6.68	1
	MT22-1041	Ring Gear and Pinion (2.077) 7.14	1
	MT22-1042	Ring Gear and Pinion (2.231) 7.72	1
	MT22-1044	Ring Gear and Pinion (2.415) 8.36	1
	MT22-1045	Ring Gear and Pinion (2.462) 8.52	1

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
10	MT22-1250	Flanged S/L Ring Gear Bolt	16
11	MT22-1068	Bearing Cage Assy.	1
12	MT14-1078	Oil Baffle Plate	1
13	MT22-1077	Flanged Bolt, Special	12
14	MT22-1067A	Shim, 1.0 MM	AR
	MT22-1067B	Shim, .50 MM	AR
	MT22-1067C	Shim, .30 MM	AR
	MT22-1067D	Shim, .25 MM	AR
	MT22-1067E	Shim, .20 MM	AR
15	MT14-1075	Pinion Bearing, Inner	1
16	MT14-1079	Pinion Bearing, Outer	1
17	MT22-1070	Cover	1
18	MT22-1069	Oil Seal Kit, Pinion	1
19	11500713	Hex Bolt, M8 X 22	8
20	11500191	Flat Lock Washer, M8	8
21	MT17-1050	Companion Flange, 1610 Series	1
	MT22-1073	Companion Flange, 1710 Series	1
22	MT22-1075	Pinion Lock Nut	1
	MT14-1082	Pinion Castle Nut	1
23	103422	Cotter Pin	1
24	MT22-1074	Washer, Special	1
25	MT14-1076	Distance Sleeve	1
26*	MT14-1077A	Bearing Distance Ring, 6.90 MM	AR
	MT14-1077B	Bearing Distance Ring, 7.00 MM	AR
	MT14-1077C	Bearing Distance Ring, 7.02 MM	AR
	MT14-1077D	Bearing Distance Ring, 7.04 MM	AR
	MT14-1077E	Bearing Distance Ring, 7.06 MM	AR
	MT14-1077F	Bearing Distance Ring, 7.08 MM	AR
	MT14-1077G	Bearing Distance Ring, 7.10 MM	AR
	MT14-1077H	Bearing Distance Ring, 7.20 MM	AR
	MT14-1077I	Bearing Distance Ring, 7.32 MM	AR
	MT14-1077J	Bearing Distance Ring, 7.44 MM	AR
	MT14-1077K	Bearing Distance Ring, 7.56 MM	AR
	MT14-1077L	Bearing Distance Ring, 7.68 MM	AR
	MT14-1077M	Bearing Distance Ring, 7.80 MM	AR
	MT14-1077N	Bearing Distance Ring, 7.92 MM	AR

AR = As Required

***Note:** Choose 2 to produce proper bearing preload.

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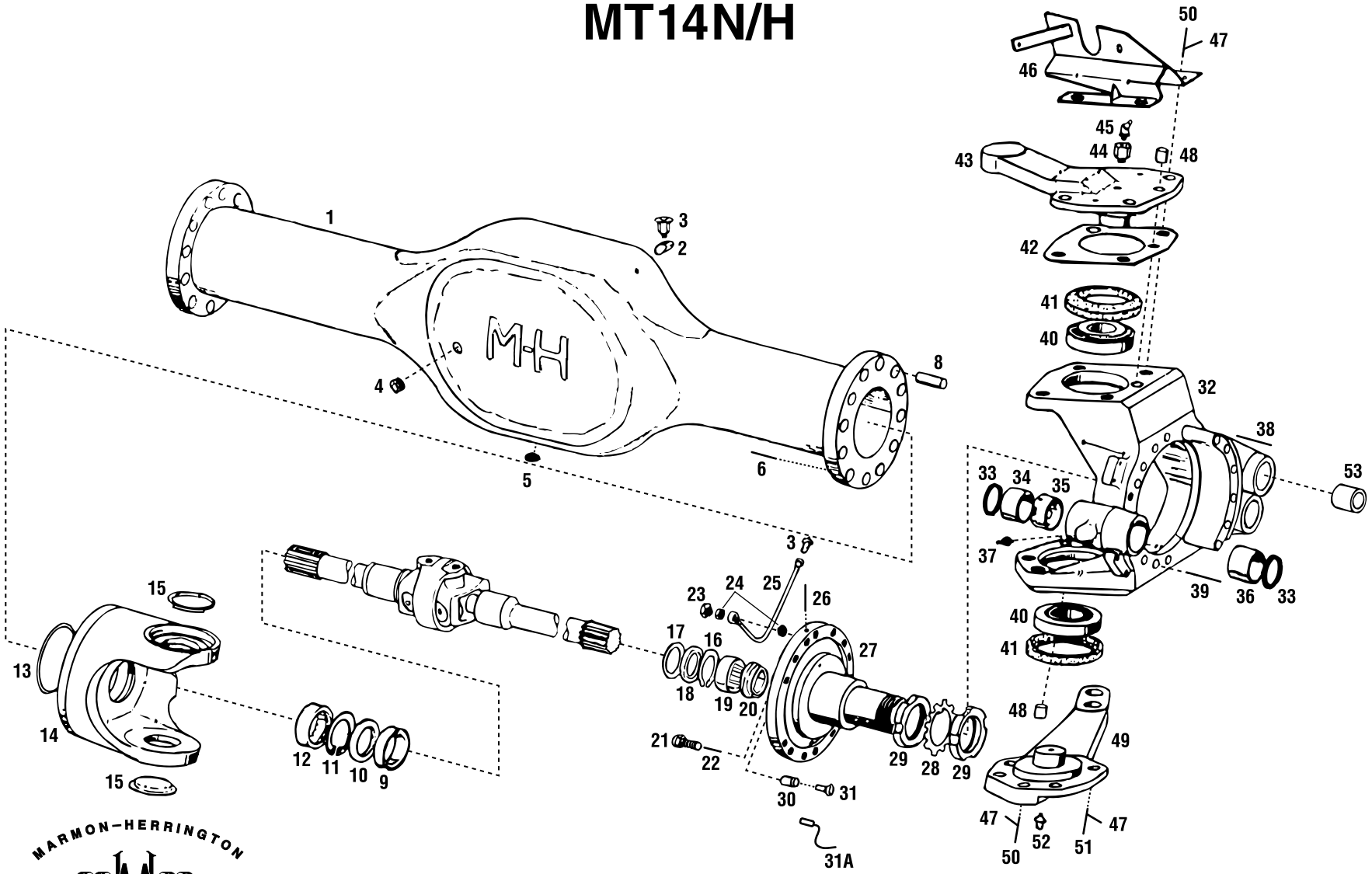
DIFFERENTIAL MT14N/H

AXLE HOUSING
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT17R-1049	Axle Housing	1
2	MT22-1214	Threaded Extension	1
3	MT14-1068	Vent	3
4	MT14-1070	Fill Plug, Carrier	1
5	MT14-1071	Drain Plug, Carrier	1
6	MT14-1072	Hex Bolt, M20x1.5x60	20
8	MT14-1222	Dowel Pin	4
		Oversize Dowel Pin, 021m6x50-6.6	4
9	MT10-1079	Oil Seal Support Assy.	2
	MT10-1080	Felt Wiper	2
10	MT22-1116	Oil Seal, Axle Shaft, Inner	2
11	MT22-1115	Snap Ring	2
12	MT22-1114	Bearing, Axle Shaft, Inner	2
13	MT14-1088	Sealing Ring, Housing to Yoke, 119x5	2
14	MT17-1024	Yoke Housing, L.H.	1
	MT17-1025	Yoke Housing, R.H. (Not Shown)	1
15	MT14-1089	Lock Cap	4
16	MT14-1090	Snap Ring	2
17	MT10-1080	Felt Wiper	2
18	MT14-1092	Oil Seal, Axle Shaft, Outer	2
19	MT14-1093	Needle Roller Bearing, 50x65x22	2
20	MT14-1094	Distance Sleeve	2
21	MT14-1095	Turn Stop Bolt	2
22	MT14-1096	Jam Nut	2
23	MT14-1098	Hollow Screw	2
24	MT14-1099	Bushing	4
25	MT14-1100	Vent Tube	2
26	MT14-1101	Screw	2
27	MT17-1018	Spindle, L.H.	1
	MT17-1019	Spindle, R.H. (Not Shown)	1
28	MT17-1133	Locking Plate	2
29	MT17-1132	Spindle Nut, M70x2	4
30	MT17-1112	Bushing	2
31	MT17-1113	Anti-dust Plug	2
31A	MT93-1282	ABS Sensor (Wabco)	2
	MT93-2035	ABS Sensor (Bendix)	2
	MT93-1283	ABS Sensor Spring Clip	2
32	MT17-1110	Knuckle Hsg. Assy., L.H.	1
	MT17-1111	Knuckle Hsg. Assy., R.H. (Not Shown)	1
33	MT14-1109	Sealing Ring	4
34	MT14-1110	Brake Spanner Bushing	2
35	MT14-1111	Distance Ring	2
36	MT14-1112	Brake Spanner Bushing	2
37	191758	Grease Fitting	4
38	MT17-1105	Hex Bolt, M14x1.5x102	12
39	MT17-1106	Hex Bolt, M14x1.5x55	16
40	MT14-1114	Trunnion Bearing Assy., 050/110x29.25	4
41	MT14-1115	Gasket	4
42	MT14-1117A	Shim, Trunnion, 2.05 MM	AR
	MT14-1117B	Shim, Trunnion, 2.00 MM	AR
	MT14-1117C	Shim, Trunnion, 0.50 MM	AR
	MT14-1117D	Shim, Trunnion, 0.30 MM	AR
	MT14-1117E	Shim, Trunnion, 0.20 MM	AR
43	MT17-1009	Steering Arm, L.H.	1
	MT17-1008	Cover for Right Steering Support Housing	1
44	MT14-1118	Extension, Fitting	2
45	271285	Grease Fitting	2
46	MT93-1737	Brake Chamber Brk., L.H.	1
	MT93-1738	Brake Chamber Brk., R.H. (Not Shown)	1
47	85T-23	Lockwire	AR
48	MT-14-1124	Dowel Pin, 20m6x20-10.9	4
49	MT17-1022	Tie-Rod Arm, L.H.	1
	MT17-1023	Tie-Rod Arm, R.H.	1
50	MT14-1125	Hex Bolt, M22x1.5x50	16
51	MT14-1126	Hex Bolt, M22x1.5x32	4
52	191758	Grease Fitting	2
53	MT22-1241	Bushing	4

AR = As Required

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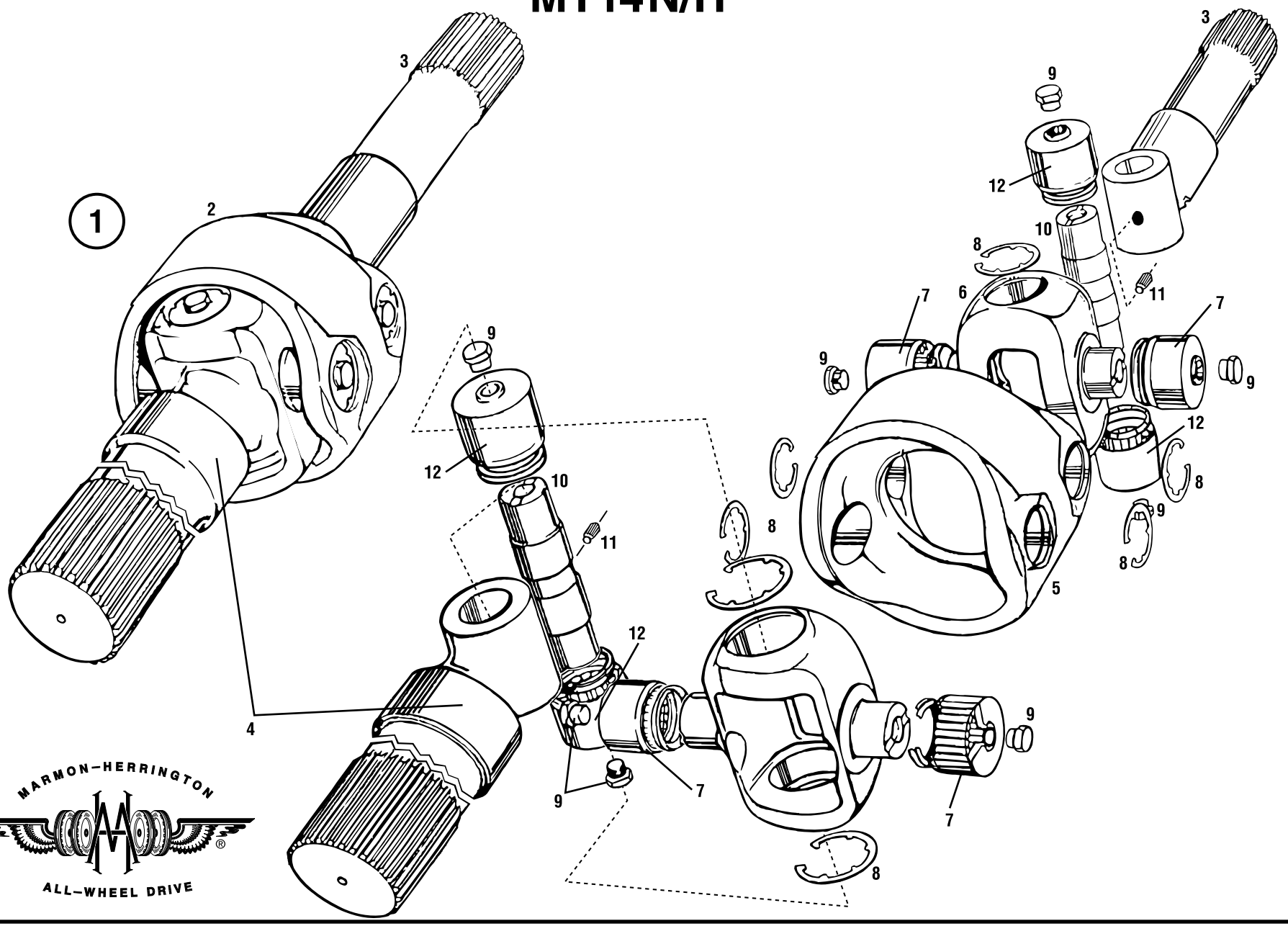
AXLE HOUSING
MT14N/H

AXLE SHAFT ASSEMBLY
MT14N/H



ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT17-1151	Axle Shaft Assembly, L.H.	1				
	MT17-1152	Axle Shaft Assembly, R.H.	1				
2	MT22-1147	Double Joint Assembly	2				
3	MT17-1153	Outer Axle Shaft	2				
4	MT17-1154	Inner Axle Shaft, L.H., Short Shaft	1				
	MT17-1155	Inner Axle Shaft, R.H., Long Shaft	1				
5	MT22-1225	Joint Hub	2				
6	MT22-1226	Spider	NSS				
7	MT22-1227	Needle Roller Bushing Assembly	NSS				
8	MT22-1228	Lock Ring	16				
9	MT22-1229	Taper Screw Plug, M12x1.5	16				
10	MT22-1230	Joint Pin	4				
11	MT22-1231	Threaded Pin	4				
12	MT22-1232	Needle Roller Bushing Assembly	NSS				
		NSS = Not Sold Separately					

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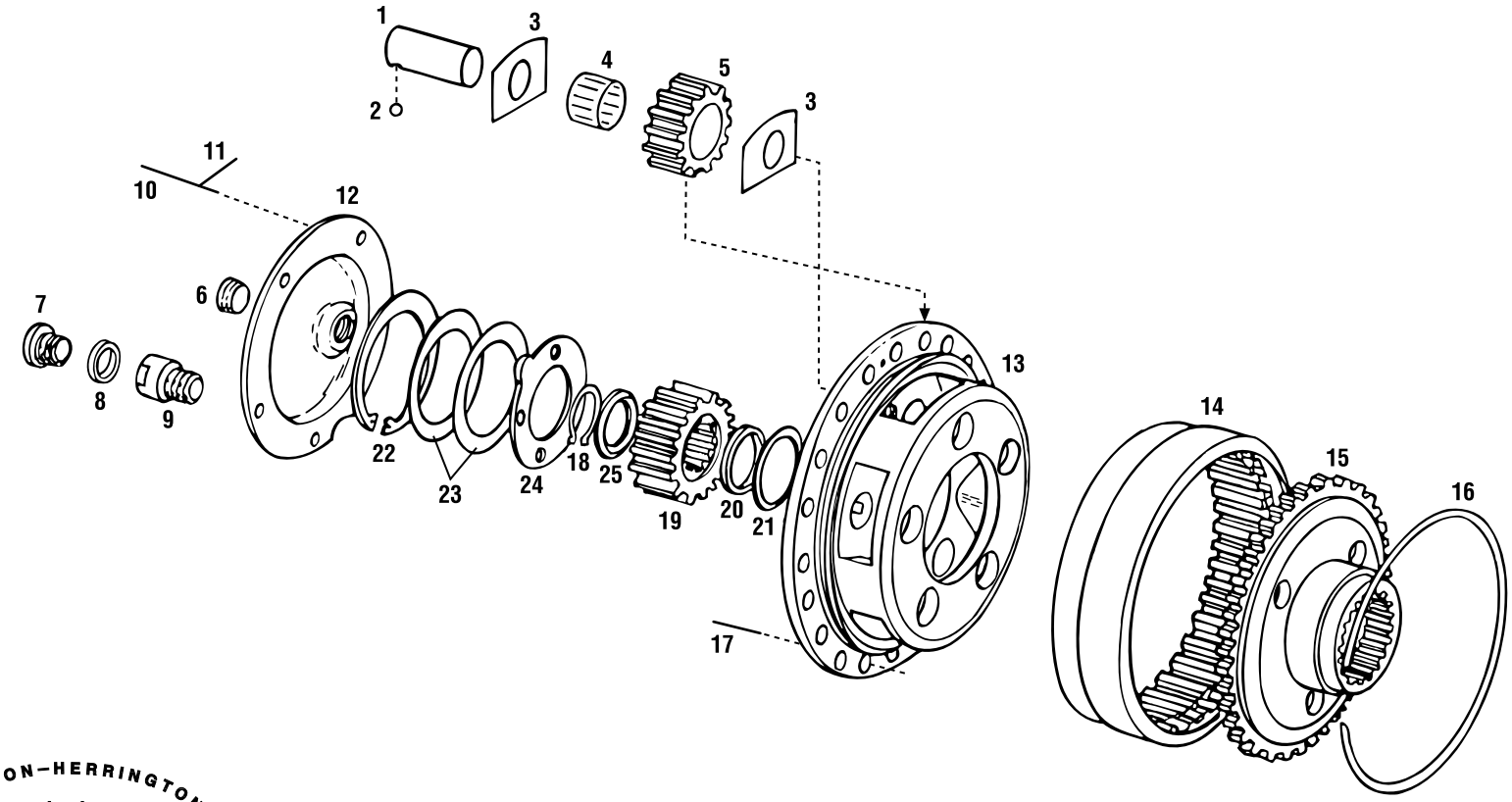
AXLE SHAFT ASSEMBLY
MT14N/H

PLANETARY
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT14-1217	Planet Gear Pin	10				
2	MT14-1218	Steel Ball	10				
3	MT14-1219	Distance Plate	20				
4	MT14-1220	Roller Bearing Assembly	20				
5	MT14-1028	Planet Gear	10				
6	MT14-1071	Fill Plug, Planetary Hub	2				
7	MT17-1213	Drain Plug, Planetary Hub	2				
8	MT14-1212	Sealing Ring	2				
9	MT14-1211	Threaded Stud	2				
10	11500773	Hex Bolt, M8x16-10.9	10				
11	11500191	Lockwasher, M8	10				
12	MT14-1029	End Cover	2				
13	MT17-1128	Planetary Gear Carrier	2				
14	MT14-1025	Planetary Ring Gear	2				
15	MT14-1026	Ring Gear Support Hub	2				
16	MT14-1207	Retaining Ring	2				
17	11500722	Hex Bolt, M10x25-1.5	8				
18	MT22-1154	Snap Ring	2				
19	MT14-1024	Sun Gear	2				
20	MT17-1156	Distance Ring	2				
21	MT17-1157	Friction Disc	2				
22	MT22-1157	Snap Ring	2				
23	MT22-1158A	Shim, .25 MM	AR				
	MT22-1158B	Shim, .50 MM					
	MT22-1158C	Shim, 2.00 MM					
24	MT22-1159	Friction Disc	2				
25	MT22-1153	Spacer	2				
		AR = As Required					

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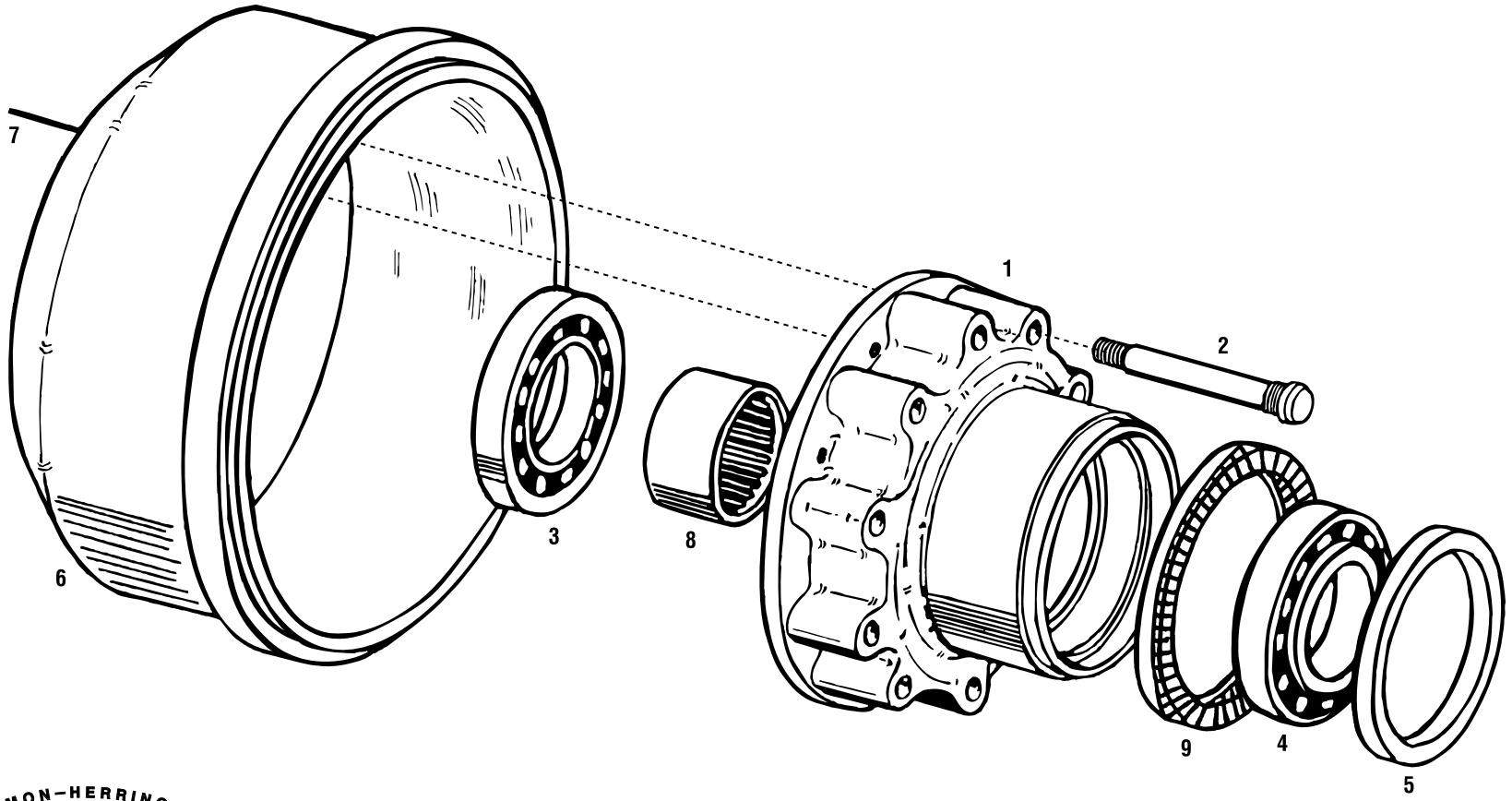
WHEEL HUB, BRAKE DRUM
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT17-1229	Wheel Hub Assembly, Left (MT14N)	1
	MT17-1230	Wheel Hub Assembly, Right (MT14N)	1
	MT17-1231	Wheel Hub Assembly (MT14H)	1
2	MT17-1026	Wheel Bolt, Left	10
	MT17-1027	Wheel Bolt, Right	10
	T15372	Nut, L.H.	10
	T15371	Nut, R.H.	10
	MT93-1251	Wheel Stud (ISO) Hub Mount (MT14H)	20
	MT93-1197	Flange Nut (ISO)	20
	MT93-1631	Wheel Stud (ISO) Aluminum Wheel (MT14HX)	20
	MT93-1838	Flange Nut (ISO) Aluminum Wheel (MT14HX)	20
3	MT14-1206	Taper Roller Bearing	2
4	MT14-1202	Taper Roller Bearing	2
5	MT14-1201	Oil Seal	2
6	MT17-1016	Brake Drum	2
	MT17-1016W	Brake Drum	2
7	11500725	Hex Bolt, M10x35-10.9	8
8	MT14-1204	Distance Sleeve	2
9	MT75-9625	Exciter Ring (ABS)	2
		AR = As Required	

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.

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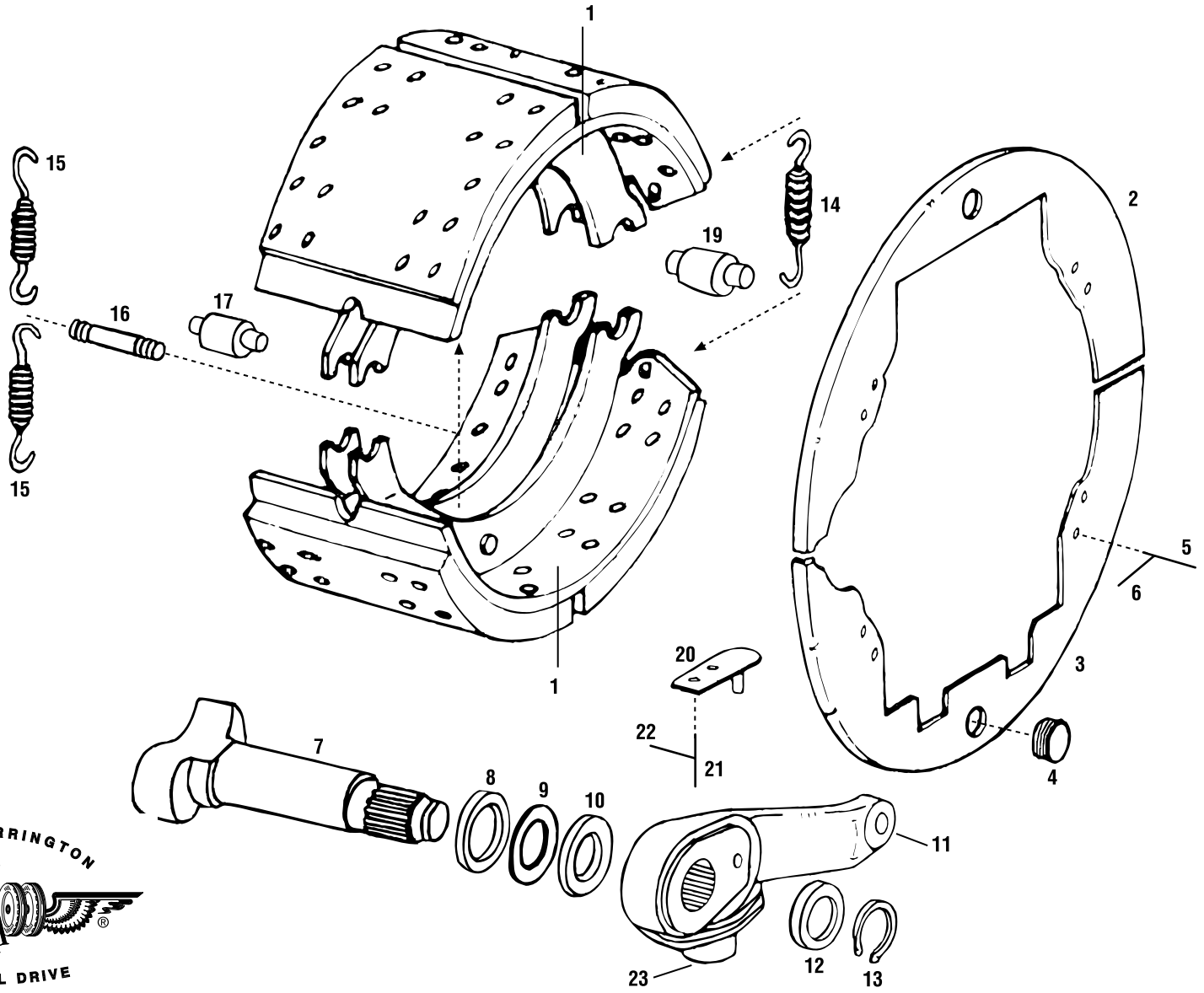
WHEEL HUB, BRAKE DRUM
MT14N/H

BRAKE
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1164	Brake Shoe Assembly	4
	MT22-1244	Brake Lining Kit	1
2	MT14-1151	Dust Cover, Upper Left	1
	MT14-1152	Dust Cover, Upper Right (Not Shown)	1
3	MT14-1153	Dust Cover, Lower Left	1
	MT14-1154	Dust Cover, Lower Right (Not Shown)	1
4	MT14-1150	Rubber Plug	4
5	11500777	Hex Bolt, M10x15-5.6	16
6	11500192	Flat Lock Washer	16
7	MT17-1146	Brake Spanner, L.H.	1
	MT17-1147	Brake Spanner, R.H. (Not Shown)	1
8	MT14-1145	Spacer	2
9	MT14-1143	Washer	2
10	MT22-1199	Shim, 0.5 mm	AR
11	MT22-1237	Slack Adj., L.H.	1
	MT22-1238	Slack Adj., R.H. (Not Shown)	1
12	MT17-1142	Washer	4
13	MT17-1141	Snap Ring	2
14	MT22-1177	Brake Shoe Spring, Long	4
15	MT14-1157	Brake Shoe Return Spring, Short	2
16	MT14-1158	Spring Support Pin	4
17	MT22-1178	Brake Shoe Roller	4
19	MT22-1243	Brake Shoe Pin	4
20	MT17-1143	Stop, L.H.	1
	MT17-1144	Stop, R.H.	1
21	11500773	Hex Bolt, M8x16-1.25	4
22	11500191	Flat Lock Washer	4
23	MT22-1246	Adjusting Cap, L.H.	1
	MT22-1247	Adjusting Cap, R.H.	1
		AR = As Required	

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.

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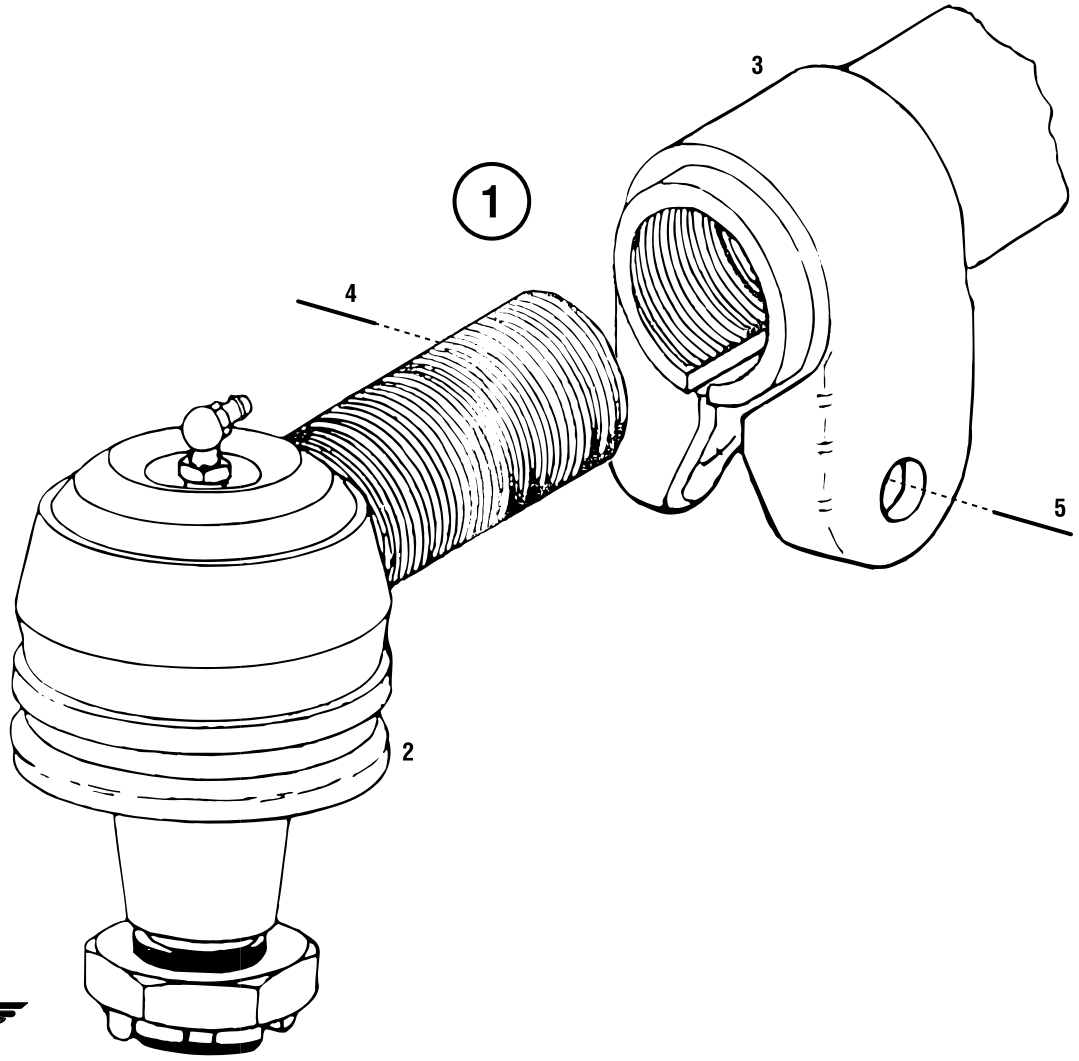
BRAKE
MT14N/H

TIE-ROD
MT14N/H



MARMON–HERRINGTON
ALL–WHEEL DRIVE

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT10-1127	Tie-Rod Assembly	1				
2	MT10-1128	Ball Joint Head, L.H.	1				
	MT10-1129	Ball Joint Head, R.H.	1				
3	MT10-1131	Tie-Rod, with Clamps	1				
4	11500735	Hex Bolt, M12x1.75x65-10.9	2				
5	11500756	Self-locking Nut, M12x1.75	2				

MARMON-HERRINGTON ALL-WHEEL DRIVE
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