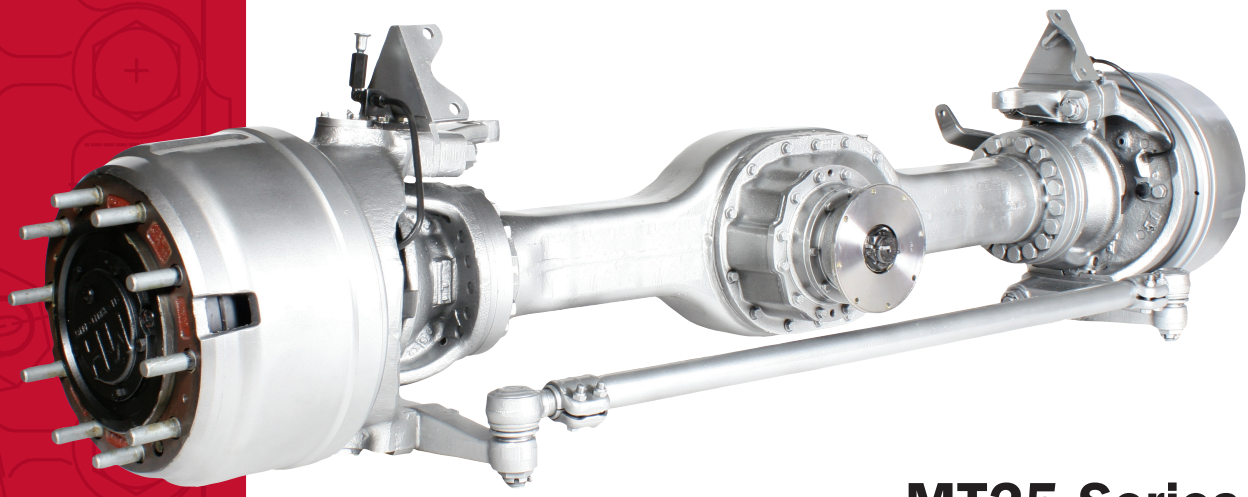
Marmon-Herrington



MT25 Series

Parts Manual

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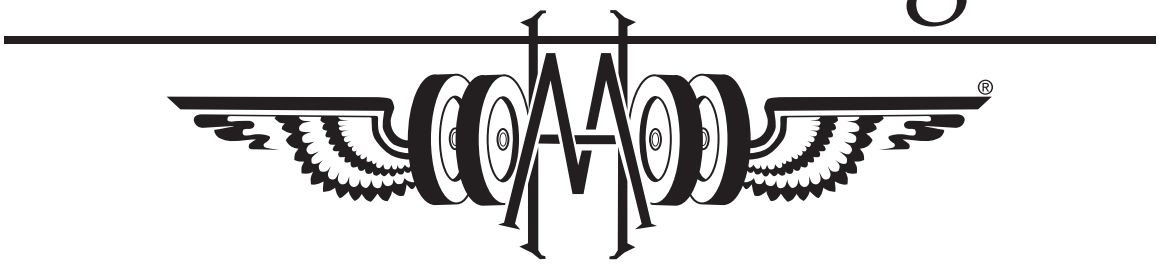
Marmon-Herrington

13001 Magisterial Drive • Louisville, KY 40223
(502) 253-0277 • (800) 227-0727 • Fax (502) 253-0317
E-mail: info@marmon-herrington.com
www.marmon-herrington.com

Marmon-Herrington



NOTES:

MARMON-HERRINGTON ALL-WHEEL DRIVE
13001 Magisterial Drive • Louisville, KY 40223
(502) 253-0277 • (800) 227-0727 • Fax (502) 253-0317
E-mail: info@marmon-herrington.com

FORWARD

GENERAL

This manual has been prepared for operators and service personnel working with the Marmon-Herrington series of transfer cases and front drive axles. For further technical assistance, please contact Marmon-Herrington Customer Service.

Please observe and follow all procedural and maintenance guidelines to ensure reliable operation and optimum service life. The Marmon-Herrington basic service schedule will integrate seamlessly with most preventative maintenance programs.

Marmon-Herrington shall not be liable for component failures or damages caused by operational abuse or neglect. Please review the Warranty Statement for a detailed explanation of coverage and claim reporting procedures.

We thank you for your investment in Marmon-Herrington equipment, and look forward to serving your needs in the best tradition of engineering excellence.

MISCELLANEOUS ISSUES

Marmon-Herrington equipped vehicles are designed for “as needed” AWD operation only, in off-road conditions.

Due to issues associated with torque, drive line wind-up and ratio mis-match, Marmon-Herrington axles and transfer cases must never be operated in AWD mode or while engaged on hard, dry surfaces.

Owner/Operators should seek expert assistance when considering alternative gear ratios and/or tire sizes.

Marmon-Herrington Axles and Transfer Cases should only be shifted when at a full stop. “Shifting on the Fly” or shifting while in motion are prohibited modes of operation. This applies to front axle engagement, high and low transfer case ranges, and locking differentials. The only exceptions are those vehicles equipped with Marmon-Herrington’s **SAFE-T-SHIFT system**.

SAFE-T-SHIFT

In 2003, Marmon-Herrington developed an electronic management system to help prevent “shift on the fly” damage. It consists of a microprocessor that receives speed information from a remote sensor in the transfer case. The system is calibrated to activate the shift solenoids at the first detection of motion, and then cancel control functions at 4 mph.

Relative rotation speeds of the gear sets may require that the vehicle be rolled a few feet before the shift will complete.

Axle and transfer case shifting can generally be heard and felt inside the cab. Indicator lights on the dash will also illuminate when the shift is complete. **DO NOT ACCELERATE UNTIL APPROPRIATE POSITION IS INDICATED ON DASH LIGHT OR CONTROL SWITCH.**

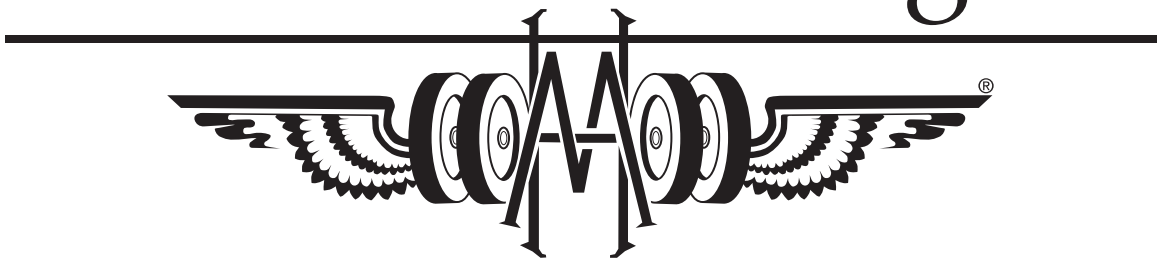
Shift Procedure

1. With the vehicle at a complete stop, select the desired range or front axle position.
2. Place the main transmission in gear.
3. Allow the vehicle to idle forward (or backwards) at walking speed until shift is completed.
4. Verify proper position indication.
5. Accelerate normally.

In the case of a manual transmission, ease the clutch out in low gear, allowing the vehicle to “walk” until shift is completed.

Some possible exclusions to the Safe-T-Shift program are those vehicles fitted with a transfer case mounted PTO, OEM factory installations, and any with non-Marmon-Herrington transfer cases.

Marmon-Herrington



MARMON-HERRINGTON WARRANTY

This is to certify that we, Marmon-Herrington Company, Louisville, Kentucky, warrant each new chassis remanufactured, or assembly or part furnished for the remanufacture of a truck chassis against defects in material and workmanship under normal use and service. Marmon-Herrington's obligation under this warranty is limited to replacement of, at our factory, any part or parts thereof which shall, within one (1) year after delivery of such vehicle to the final user after installation of the all-wheel drive installation kit, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been thus defective.

Marmon-Herrington will warrant covered components against defects in material and workmanship under normal use and service for the specified period. This warranty includes all internal components with the following exceptions: Exceptions include, but are not limited to wear items such as brake linings and drums, oil seals and bearings, which will be covered for a period of 12 months or 12,000 miles, which ever occurs first.

Failure to follow designated maintenance procedures and schedules, maintain required lubrication levels, or any form of operational abuse or misuse will void all warranty coverage expressed or implied.

Failure reporting and claims submission procedures are to be followed as outlined in the standard warranty guidelines

Service parts are manufactured to the same standards as production installed parts. However, since the installation thereof, as well as the age and condition of the receiving vehicle are beyond the control of Marmon-Herrington, Service Parts are warranted for a period of ninety (90) days or five thousand (5,000) miles whichever first occurs. All other regular warranty conditions apply.

On vehicles operating OVERSEAS, the determination of defects will be made at Marmon-Herrington Company, Louisville, Kentucky, from complete information supplied in writing by overseas distributors or recognized acting distributors. Complete information is defined to mean: vehicle serial number, user's name, date of delivery, mileage at time of breakage, date of breakage, type of service, nature of break or fault, distributor's recommendation (for our guidance only), and any other pertinent information. After determination of our obligation, any parts to be replaced will be shipped to distributor or acting distributor in accordance with his instructions.

This warranty is in lieu of all other warranties expressed or implied and of all other obligations or liabilities incurred by Marmon-Herrington. Marmon-Herrington neither assumes nor authorizes any other person to assume any other liability in connection with this sale, including but not limited to indirect or consequential damages.

This warranty shall not apply to any vehicle which shall have been repaired or altered in any way so as in our judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence, or accident, nor which shall have been operated at a speed exceeding the factory rated speed or loaded beyond the factory rated load capacity or operated in violation of Marmon-Herrington's instructions.

Marmon-Herrington makes no warranty whatever on components of the original manufacturer's chassis not related to the modification work. Also, no warranty is made on tires, rims, ignitions, or other parts usually warranted separately by their respective manufacturers.

The manufacturers reserve the right to make changes in design, and changes or improvements upon their product, without notice, and without incurring any obligation to install such changes or improvements upon their products theretofore manufactured.

This warranty shall become effective only when the Warranty Certificate has been returned to Marmon-Herrington and validated by the same.

In the case of vehicles operating in extreme conditions such as corrosive material mines, deep- water zones or areas of hostile aggression, the following warranty limitations apply:

Marmon-Herrington shall not be responsible for damage caused by chemical corrosion, internal water damage due to total immersion, or explosive impact. These conditions constitute severe duty and are not covered by Marmon-Herrington standard warranty.

WARRANTY REPAIR AND CLAIM PROCEDURE

Initial Failure Reporting

1. Operator must call Marmon-Herrington Customer Service prior to performing any repairs and receive a Repair Authorization Number to be eligible for reimbursement. The work authorization number does not guarantee payment but is an acknowledgement that the vehicle is within the warranty period in terms of date and mileage, and that a claim has been activated. **It will be the responsibility of the operator to ensure that their repair facility is aware of, and complies with, the guidelines of this policy.**
2. To expedite the authorization process, you will need the Sales Order Number or "S" number found on the component I.D. tag. You will also need the Vehicle Identification Number or the last six digits of the "VIN", the date the vehicle was placed in service, and the current mileage. Please note the following:
   - This Warranty Registration should have been submitted at the time of delivery. If our records do not include a warranty registration, you must complete one before any authorization for repair can be issued. We will make them available by mail or fax upon request.
3. Marmon-Herrington will pre-approve .5 hours diagnosis/inspection time prior to your call for repair authorization. If the the diagnosis/inspection complaint does not reveal a warrantable failure, or result in a warrantable repair, the customer will be responsible for all charges including diagnosis/inspection time.
4. The Operators Manual contains information covering proper equipment use and maintenance schedules. Operators must adhere to these guidelines to be eligible for reimbursement, and service records must be provided upon request.

Pre-Repair Requirements

1. Authorization for repairs will require a written estimate/repair order of costs after determination that a warrantable condition is found to exist.

2. Estimates must contain the following information:
   - A list of all parts necessary for specific job and if applicable, all parts that will be invoiced back to Marmon-Herrington.
   - The cost of disassembly, inspection and diagnosis of any portion of the vehicle to determine extent of repairs needed.
   - Current labor costs, reflecting both hourly rate and number of hours to effect repairs must be listed.
   - Miscellaneous charges such as "shop supplies" must be defined. Actual dollar amounts must be listed, as percentages will not be accepted.
   - Sublet repairs must also be defined and included in the estimate at their actual dollar amount.
   - NOTE: If it becomes necessary to exceed the original estimate in terms of parts or labor, the repair facility must call Marmon-Herrington Customer Service for additional authorization.
3. Only the use of Marmon-Herrington supplied parts will constitute reimbursement unless prior approval has been obtained.

Parts Ordering

While Marmon-Herrington operates a full Service Parts Department, replacement parts needed to effect Warranty repairs must be acquired through Customer Service to be eligible for reimbursement.

Post Repair Requirements

The final invoice or work order must include the following:

- Customer's name, address, and phone number.
- The Vehicle Identification number.
- The Sales Order Number or "S" number, which the customer can provide or can be located on the I.D. tag, fixed to the transfer case or axle.
- The Axle or Transfer Case Model and Serial Number, also located on the I.D. tag.
- Mileage In / Mileage Out.
- The Cause and Correction of the repair including detailed description of repairs and parts replaced.
- The date the repair order was open and the date the repairs were completed.
- The Work Authorization Number obtained from Customer Service.

Notes to Repair Facilities

1. Miscellaneous charges such as "shop supplies" must be listed as separate line items and shown on the final invoice as stated in "Pre-Repair Requirements." Invoices for sublet repairs must be made available upon request.
2. All repairs must comply with any or all state and DOT requirements.
3. Downtime of vehicle and incurred costs associated due to the delay of parts shipments or any other condition beyond our control is not reimbursable and should not be listed on the invoice.
4. All failed parts that are required to be returned to Marmon-Herrington must be received before payment will be made. The Return Authorization will be sent with the replacement parts when shipped from Marmon-Herrington.
5. All Claims must be submitted within 60 days of completion of repairs to be eligible for reimbursement.

For Work Authorization call: (800) 227-0727, Ext. 282
To Submit Claims by Fax: (502) 253-0317

Submit Claims by Mail to:
Marmon-Herrington Company, Customer Service Department, 13001 Magisterial Drive, Louisville, KY 40223.

REPLACEMENT PARTS

When ordering replacement parts for **MARMON-HERRINGTON** installations, 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.

CALL IN 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 to obtain a Repair Authorization Number.

(800) 227-0727, Ext. 282	8am-5pm EST
(502) 693-1129	5pm-8pm EST

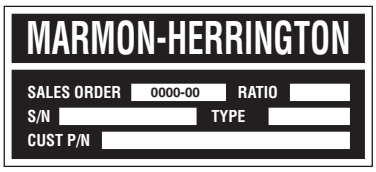
Please be prepared to supply the following information:

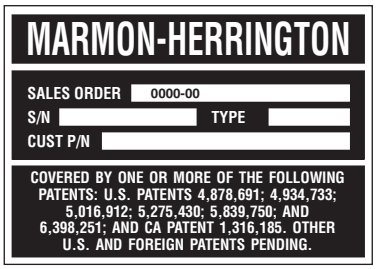
Factory Order Number or "S-Number" This is located on an I.D. plate fixed to either the driver's door panel or the component (axle or transfer case) itself. This plate will also show the component's model and serial number. Example: S-7777-05

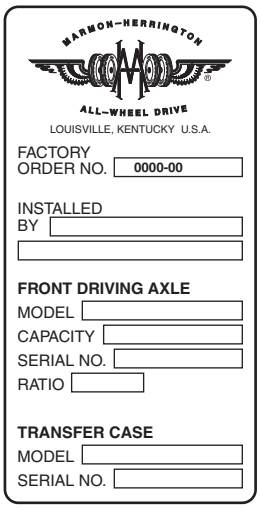
Component Model and Serial Number
Vehicle Year, Make and Model
Vehicle Identification Number
Mileage
In Service Date

Please refer to our website (www.marmon-herrington.com) for the latest versions of our parts and service manuals, as well as new products and contact information.

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

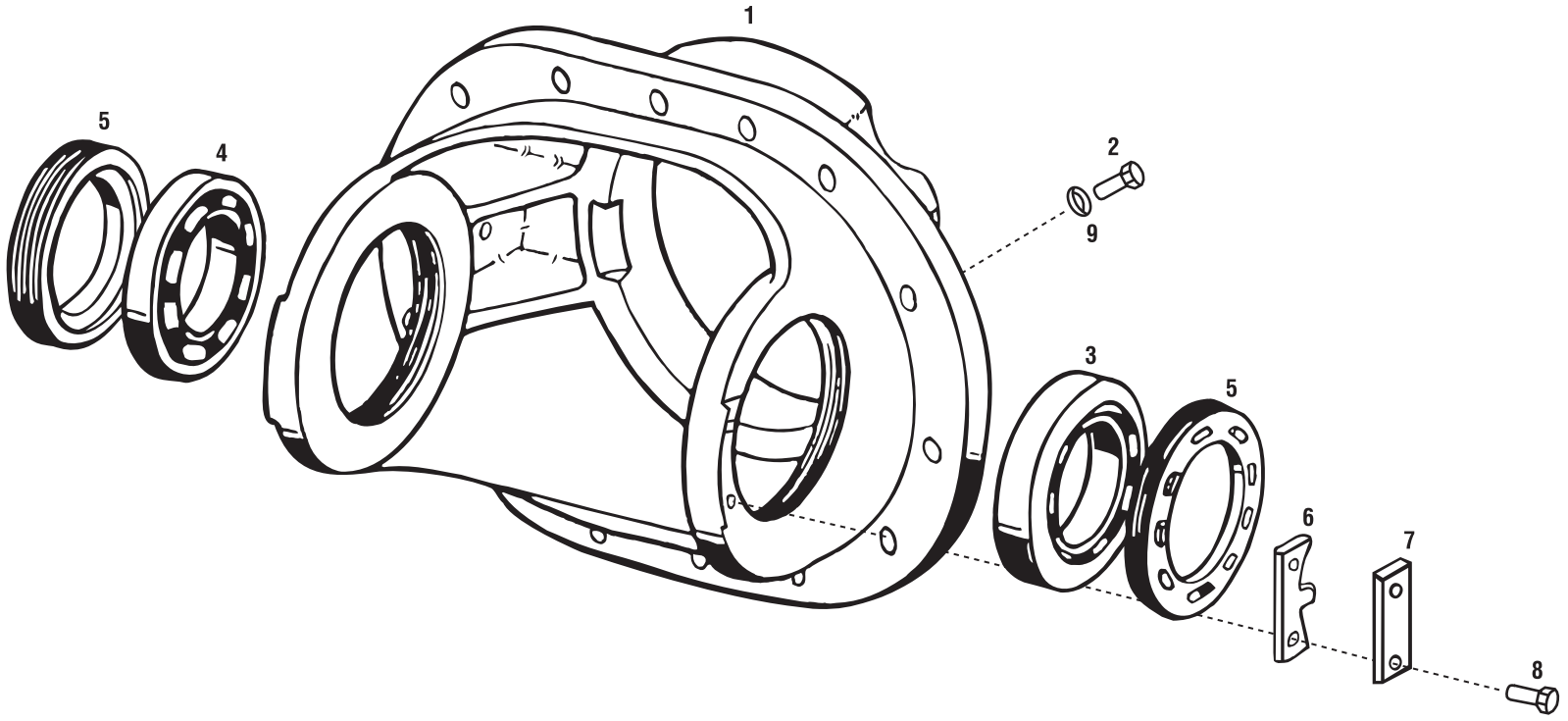






CB04/13

DIFFERENTIAL CARRIER HOUSING
MT25H



Marmon-Herrington

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT25-1076	Differential Carrier Housing Assy.	1				
2		Flanged Bolt, Special	18				
	MT22-1277	Flanged Bolt (Use Lock Washer)	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, M8 X 15 - 10.9	4				
9	MT93-5866	Washer, Lock (Nord-Lock)	18				

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DIFFERENTIAL CARRIER HOUSING
MT25H

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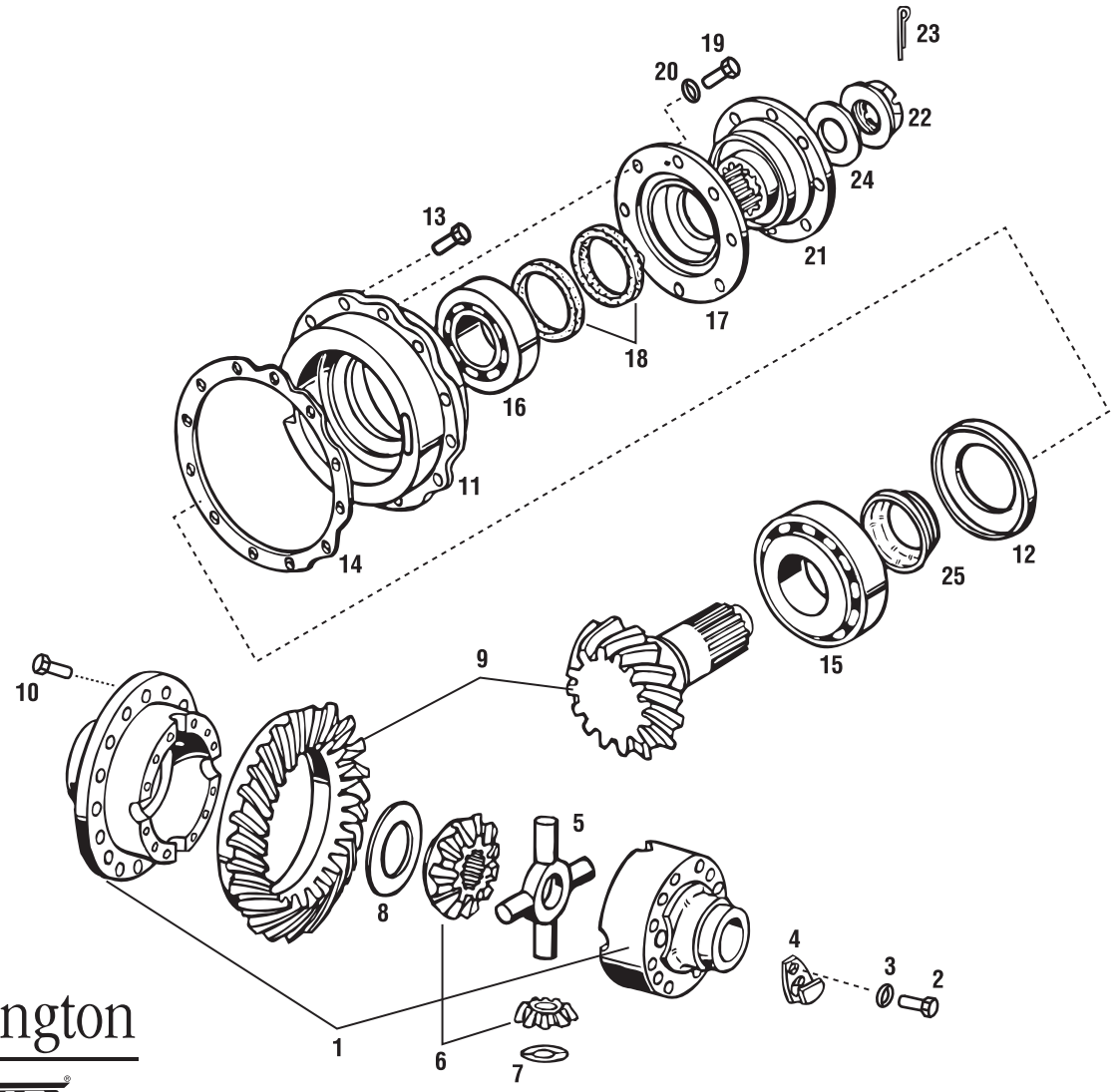
DIFFERENTIAL
MT25H



Marmon-Herrington

COMPLETE CARRIER ASSEMBLY

CARRIER P/N	PINION & RING GEAR RATIO	FINAL RATIO	DIFFERENTIAL CASE
MT22-1001	1.227	4.85	MT22-1051
MT22-1002	1.318	5.21	MT22-1051
MT22-1003	1.422	5.62	MT22-1052
MT22-1004	1.526	6.04	MT22-1052
MT22-1010	1.553	6.15	MT22-1052
MT22-1005	1.632	6.45	MT22-1052
MT22-1014	1.684	6.66	MT22-1052
MT22-1013	1.765	6.98	MT22-1052
MT22-1006	1.812	7.17	MT22-1052
MT22-1007	1.929	7.63	MT22-1052
MT22-1008	2.077	8.15	MT22-1445
MT22-1009	2.231	8.81	MT22-1445
MT22-1011	2.415	9.55	MT22-1445
MT22-1012	2.462	9.74	MT22-1445

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1051	Diff. Case Halves, Assy. (4.85-5.21)	1
	MT22-1052	Diff. Case Halves, Assy. (5.62-7.63)	1
	MT22-1445	Diff. Case Halves, Assy. (8.15-9.74)	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) 4.85	1
	MT22-1053	Ring Gear and Pinion (1.318) 5.21	1
	MT22-1056	Ring Gear and Pinion (1.422) 5.62	1
	MT22-1057	Ring Gear and Pinion (1.526) 6.04	1
	MT22-1043	Ring Gear and Pinion (1.553) 6.15	1
	MT22-1055	Ring Gear and Pinion (1.632) 6.45	1
	MT22-1047	Ring Gear and Pinion (1.684) 6.66	1
	MT22-1046	Ring Gear and Pinion (1.765) 6.98	1
	MT22-1058	Ring Gear and Pinion (1.812) 7.17	1
	MT22-1040	Ring Gear and Pinion (1.929) 7.63	1
	MT22-1041	Ring Gear and Pinion (2.077) 8.15	1
	MT22-1042	Ring Gear and Pinion (2.231) 8.81	1
	MT22-1044	Ring Gear and Pinion (2.415) 9.55	1
	MT22-1045	Ring Gear and Pinion (2.462) 9.74	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	MT14-1082	Pinion Castle Nut	1
23	103422	Cotter Pin	1
24	MT22-1074	Washer, Special	1

25* **Pinion Bearing Spacer:***

MT22-1400	34.225 MM	MT22-1417	33.800 MM
MT22-1401	34.200 MM	MT22-1418	33.775 MM
MT22-1402	34.175 MM	MT22-1419	33.750 MM
MT22-1403	34.150 MM	MT22-1420	33.725 MM
MT22-1404	34.125 MM	MT22-1421	33.700 MM
MT22-1405	34.100 MM	MT22-1422	33.675 MM
MT22-1406	34.075 MM	MT22-1423	33.650 MM
MT22-1407	34.050 MM	MT22-1424	33.625 MM
MT22-1408	34.025 MM	MT22-1425	33.600 MM
MT22-1409	34.000 MM	MT22-1426	33.575 MM
MT22-1410	33.975 MM	MT22-1427	33.550 MM
MT22-1411	33.950 MM	MT22-1428	33.525 MM
MT22-1412	33.925 MM	MT22-1429	33.500 MM
MT22-1413	33.900 MM	MT22-1430	33.475 MM
MT22-1414	33.875 MM	MT22-1431	33.450 MM
MT22-1415	33.850 MM	MT22-1432	33.425 MM
MT22-1416	33.825 MM	MT22-1433	33.400 MM

AR = As Required

***Note:**
As Required.
Choose 1 to produce proper bearing preload.

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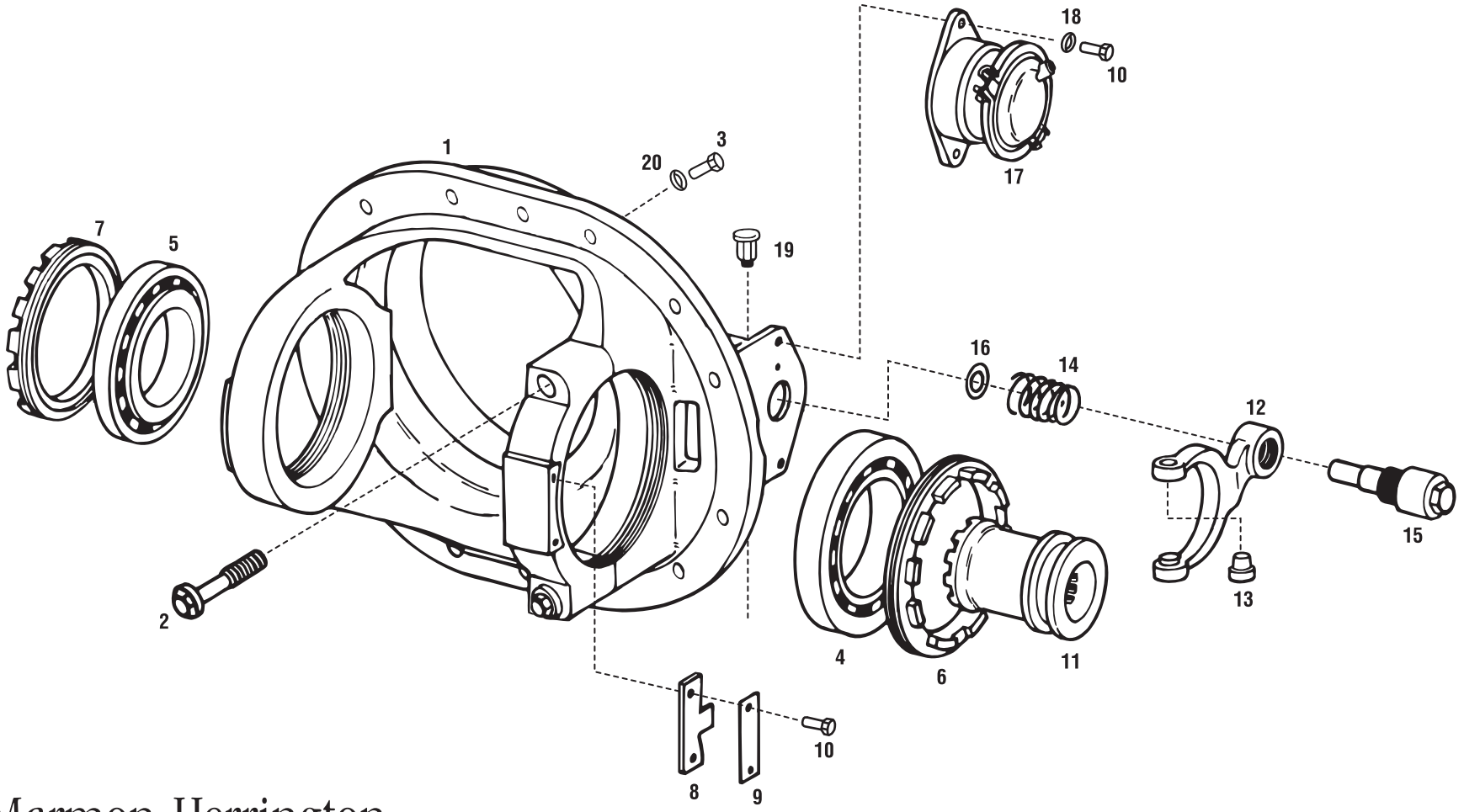
DIFFERENTIAL
MT25H

Marmon-Herrington

DIFFERENTIAL CARRIER HOUSING
MTL25



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CB04/13

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MTL25-1023	Differential Carrier Housing Assy.	1				
2	R22-1028	Hex Bolt, M16x85-1.5	2				
3	MT25-1277	Flanged Bolt (Use Lock Washer)	18				
4	MT14-1053	Taper Roller Bearing	1				
5	MT22-1078	Taper Roller Bearing	1				
6	MT14-1052	Bearing Adjuster, M142x1.5	1				
7	MT22-1079	Bearing Adjuster, M133x2	1				
8	MT22-1080	Adjuster Lock Plate	2				
	MT22-1080A	Adjuster Lock Plate	2				
9	MT22-1081	Lock Plate	2				
10	11500773	Hex Bolt, M8x16	6				
11	MTL17-1027	Clutch Sleeve	1				
12	R22-1058	Shift Fork Assy. **(Includes Item #13)**	1				
13	R22-1059	Shift Fork Pin	2				
14	R22-1015	Spring	1				
15	R22-1016	Push Rod	1				
16	R22-1017	Washer	AR				
17	R22-1021	Differential Lock Actuating Air Chamber Assy.	1				
18	11500191	Lock Washer, M8	2				
19	MT14-1068	Vent Valve	1				
20	MT93-5866	Washer, Lock (Nord-Lock)	18				
		AR = As Required					

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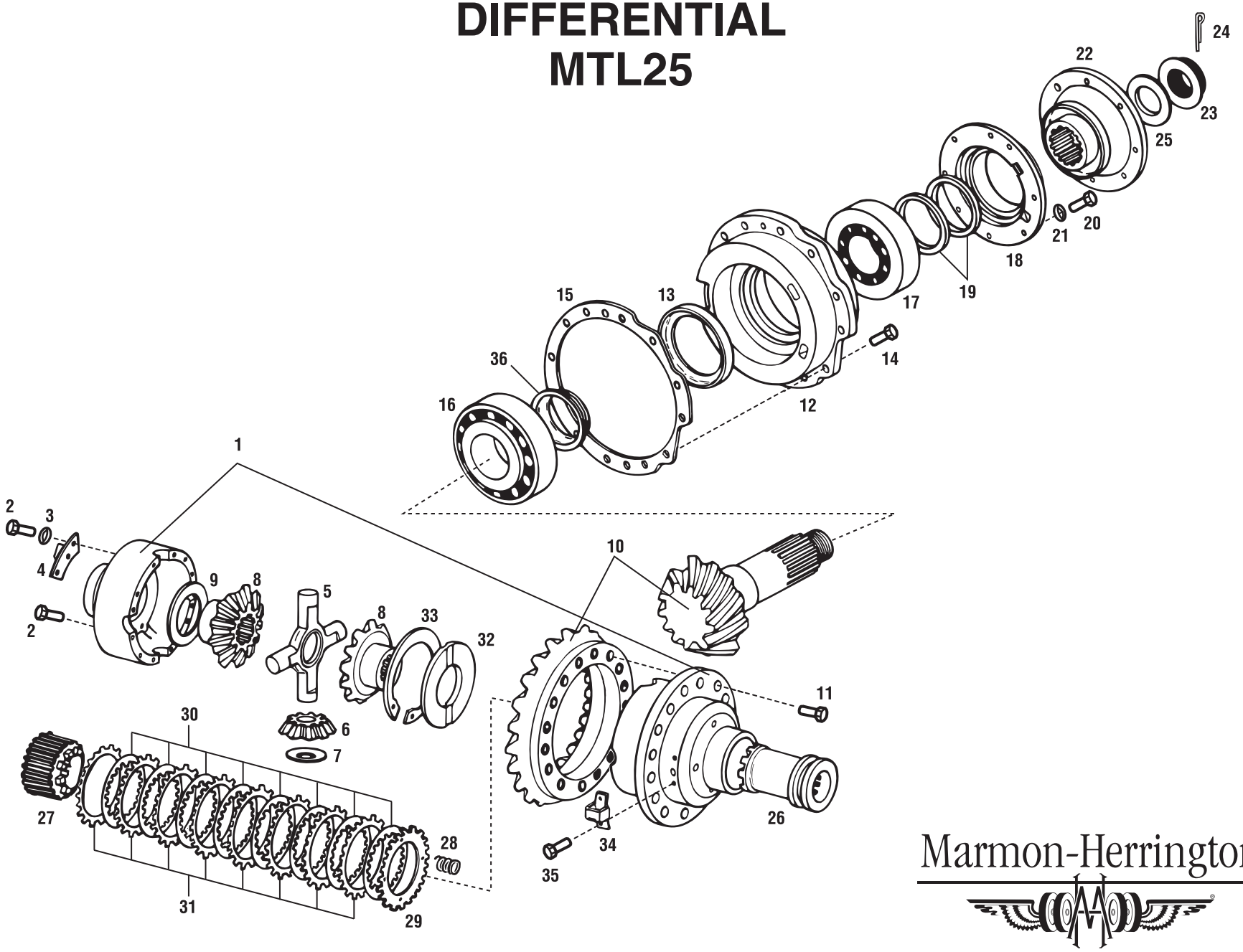
DIFFERENTIAL CARRIER HOUSING
MTL25

DIFFERENTIAL
MTL25



Marmon-Herrington

CB04/13

COMPLETE CARRIER ASSEMBLY

CARRIER P/N	PINION & RING GEAR RATIO	FINAL RATIO	DIFFERENTIAL CASE
MTL17-1001	1.227	4.85	MTL17-1022
MTL17-1002	1.318	5.21	MTL17-1022
MTL17-1003	1.422	5.62	MTL17-1023
MTL17-1004	1.526	6.04	MTL17-1023
MTL17-1010	1.553	6.15	MTL17-1023
MTL17-1005	1.632	6.45	MTL17-1023
MTL17-1014	1.684	6.66	MTL17-1023
MTL17-1013	1.765	6.98	MTL17-1023
MTL17-1006	1.812	7.17	MTL17-1023
MTL17-1015	1.929	7.63	MTL17-1023

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MTL17-1023	Diff. Case Halves, Assy. (5.62-7.63)	1
	MTL17-1022	Diff. Case Halves, Assy. (4.85-5.21)	1
2	MT22-1066	Hex Bolt, M10x75-1.25	12
3	MT22-1065	Washer	2
4	MTL17-1025	Oil Slinger	2
5	MT22-1061	Differential Cross	1
6	MT22-1062	Differential Pinion	4
7	MT22-1063	Washer, Differential Pinion Gear	4
8	MTL17-1026	Differential Gear	2
9	MT22-1059	Washer, Differential Side Gear	1
10	MT22-1054	Ring Gear and Pinion (1.227) 4.85	1
	MT22-1053	Ring Gear and Pinion (1.318) 5.21	1
	MT22-1056	Ring Gear and Pinion (1.422) 5.62	1
	MT22-1057	Ring Gear and Pinion (1.526) 6.04	1
	MT22-1043	Ring Gear and Pinion (1.553) 6.15	1
	MT22-1055	Ring Gear and Pinion (1.632) 6.45	1
	MT22-1047	Ring Gear and Pinion (1.684) 6.66	1
	MT22-1046	Ring Gear and Pinion (1.765) 6.98	1
	MT22-1058	Ring Gear and Pinion (1.812) 7.17	1
	MT22-1040	Ring Gear and Pinion (1.929) 7.63	1
11	MT22-1250	Flanged, Self-Locking Ring Gear Bolt	16
12	MT22-1068	Bearing Cage Assy.	1
13	MT14-1078	Oil Baffle Plate	1
14	MT22-1077	Flanged Bolt, Special	12
15	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

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
16	MT14-1075	Pinion Bearing, Inner	1
17	MT14-1079	Pinion Bearing, Outer	1
18	MT22-1070	Cover	1
19	MT22-1069	Oil Seal Kit, Pinion	1
20	11500713	Hex Bolt, M8x20-1.25	8
21	11500191	Lock Washer, M8	8
22	MT22-1073	Companion Flange, 1710 Series	1
23	MT14-1082	Pinion Castle Nut, M42x1.5	1
24	103422	Cotter Pin	1
25	MT22-1074	Washer, Special	1
26	MTL17-1027	Clutch Sleeve	1
27	MTL17-1028	Toothed Hub	1
28	MTL17-1029	Spring	12
29	MTL17-1030	Backing Disk	1
30	MTL22-1053	Inner Clutch Plate	13
31	MTL22-1052	Outer Clutch Plate	13
32	MTL17-1032	Differential Side Washer	1
33	MTL17-1033	Lock Ring	1
34	MTL17-1034	Oiler Scoop	2
35	MTL17-1035	Countersunk Screw	2
36		**Pinion Bearing Spacer:***	

MT22-1400	34.225 MM	MT22-1417	33.800 MM
MT22-1401	34.200 MM	MT22-1418	33.775 MM
MT22-1402	34.175 MM	MT22-1419	33.750 MM
MT22-1403	34.150 MM	MT22-1420	33.725 MM
MT22-1404	34.125 MM	MT22-1421	33.700 MM
MT22-1405	34.100 MM	MT22-1422	33.675 MM
MT22-1406	34.075 MM	MT22-1423	33.650 MM
MT22-1407	34.050 MM	MT22-1424	33.625 MM
MT22-1408	34.025 MM	MT22-1425	33.600 MM
MT22-1409	34.000 MM	MT22-1426	33.575 MM
MT22-1410	33.975 MM	MT22-1427	33.550 MM
MT22-1411	33.950 MM	MT22-1428	33.525 MM
MT22-1412	33.925 MM	MT22-1429	33.500 MM
MT22-1413	33.900 MM	MT22-1430	33.475 MM
MT22-1414	33.875 MM	MT22-1431	33.450 MM
MT22-1415	33.850 MM	MT22-1432	33.425 MM
MT22-1416	33.825 MM	MT22-1433	33.400 MM

AR = As Required

***Note:**
As Required.
Choose 1 to produce proper bearing preload.

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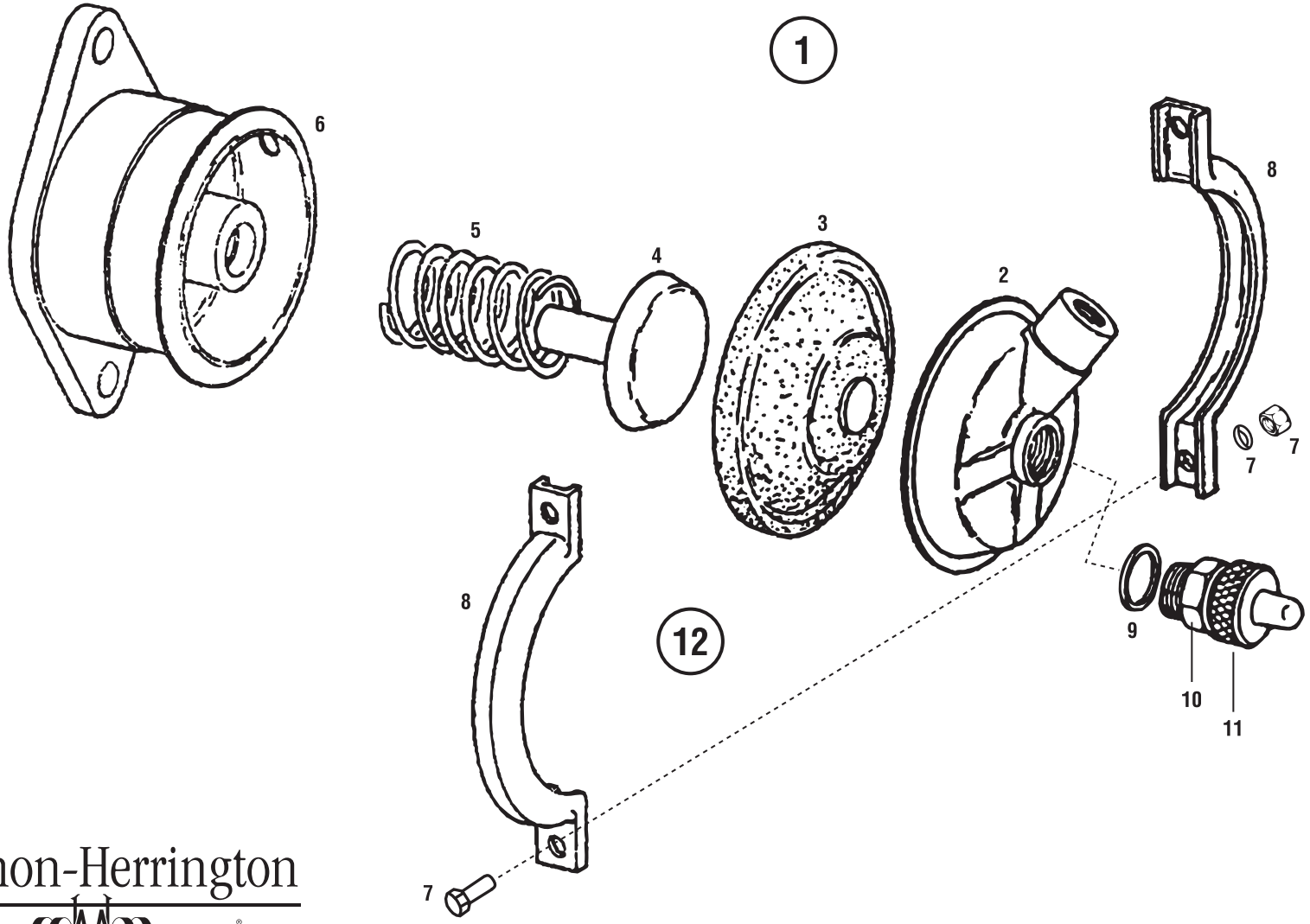
DIFFERENTIAL
MTL25

DIFFERENTIAL LOCK AIR CHAMBER
MTL25



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ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	R22-1021	Differential Lock Actuating Air Chamber Assy. **(Includes Items #2, 3, 4, 5, 6, 7, and 8)**	2				
2	R22-1022	Cap*	1				
3	R22-1023	Diaphragm*	1				
4	R22-1024	Spring Cap*	1				
5	R22-1025	Spring*	1				
6	R22-1026	Housing*	1				
7	R22-1032	Clamp, Bolt Kit*	1				
8	R22-1029	Clamp*	2				
9	MVG12-1040	Washer (Non-Military Only)	1				
10	MVG12-1041	Reporting Switch (Non-Military Only)	1				
11	MT75-7750	Connecting (Non-Military Only)	1				
12	R22-1023K	Diaphragm Kit **(Includes Items #3, 7, 8)**	1				
		*Not Sold Separately					

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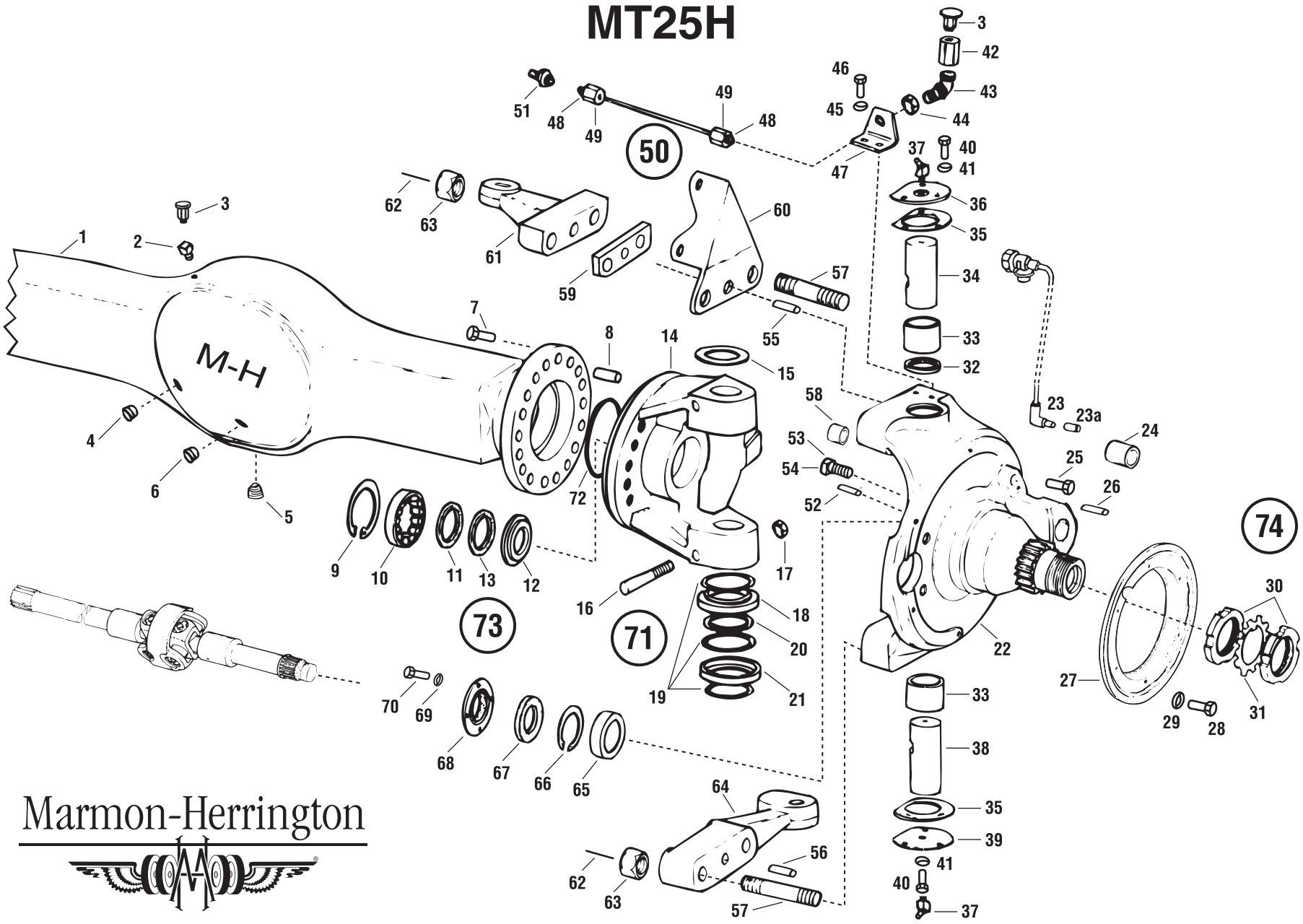
DIFFERENTIAL LOCK AIR CHAMBER
MTL25

Marmon-Herrington

AXLE HOUSING
MT25H

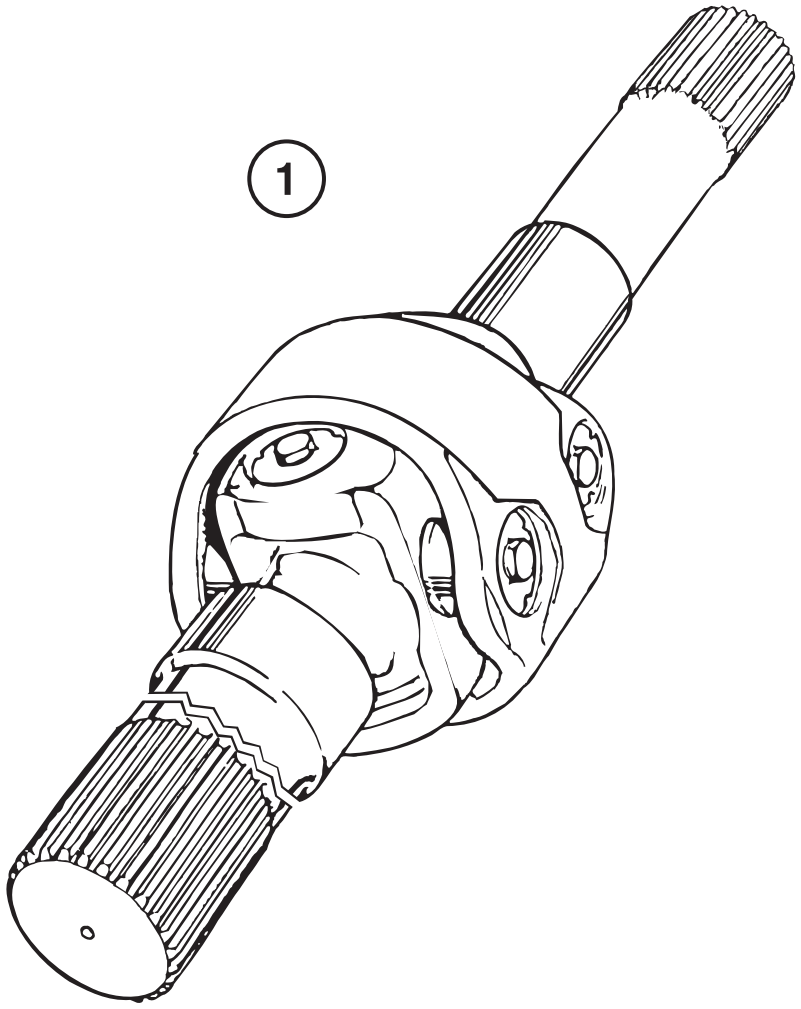


ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT25-1083	Axle Housing	1
2	MT22-1214	Vent Extension	1
3	MT14-1068	Vent	3
4	MT14-1070	Fill Plug	1
5	MT14-1071	Drain Plug, Magnetic	1
6	MT25-1070	Plug	1
7	MT22-1084	Hex Bolt, Special	34
8	MT14-1222	Dowel Pin	2
9	MT22-1087	Snap Ring	2
10	MT22-1088	Roller Bearing, Axle Shaft, Inner	2
11	MT22-1089	Oil Seal, Axle Shaft, Inner	2
12	MT22-1090	Seal Holder (Avail. only in Kit. See Item #73)	2
13	MT22-1090F	Felt Wiper	2
14	MT22-1085	Yoke Housing, L.H.	1
	MT22-1086	Yoke Housing, R.H. (Not Shown)	1
15	MT22-1091A	Shim, Trunnion, 1.00 MM	AR
	MT22-1091B	Shim, Trunnion, 1.20 MM	AR
	MT22-1091C	Shim, Trunnion, 0.40 MM	AR
	MT22-1091D	Shim, Trunnion, 0.60 MM	AR
	MT22-1091E	Shim, Trunnion, 1.40 MM	AR
16	MT22-1092	Lock Pin	4
17	MT22-1093	Hex Nut, Fine Thread, M16 X 1.5	4
18	MT22-1097	Bearing Case, Upper (Avail. in Kit: Item #71)	2
19	MT22-1095	O Ring Kit	2
20	MT22-1096	Thrust Disk (Avail. in Kit. See Item #71)	2
21	MT22-1094	Bearing Case, Lower (Avail. in Kit: Item #71)	2
22	MT25N-1098	Knuckle Assy., L.H.5	1
	MT25N-1099	Knuckle Assy., R.H. (Not Shown)	1
23	MT93-1282	ABS Sensor (Wabco)	2
	MT93-2035	ABS Sensor (Bendix)	2
23a	MT93-1283	Sensor Spring Clip	2
24	MT22-1241	Bushing, Brake Shoe Pin	4
25	MT22-1105	Hex Bolt, Special	4
26	MT22-1106	Dowel Pin	4
27	MT22-1176	Dust Shield	2
28	11500773	Hex Bolt, M8 X 16	12
29	11500191	Lock Washer, M8	12
30	MT22-1132	Nut, Wheel Bearing	4
31	MT22-1133	Lock Ring, Wheel Bearing	2
32	MT22-1101	Oil Seal, Trunnion Pin	2
33	MT22-1102	Trunnion Pin Bushing	4
34	MT22-1107	Trunnion Pin, Upper (Short)	2
35	MT22-1108G	Trunnion Cover Gasket	4
36	MT22-1108A	Trunnion Cover	2
37	271285	Grease Fitting 45°	4
38	MT22-1111	Trunnion Pin, Lower (Long)	2
39	MT25-1108	Trunnion Cover, Lower	2
40	11500715	Bolt M8 X 25 - 1.25	12
41	11500191	Lock Washer M8	12

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
42	MT22-1139	Adapter Fitting	2
43	MT22-1138	Elbow Fitting, Vent	2
44	MT22-1140	Jam Nut	2
45	11500192	Lock Washer, M10	4
46	11500778	Hex Bolt, M10 X 25	4
47	MT22-1135	Bracket, Vent, L.H.	1
	MT22-1136	Bracket, Vent, R.H. (Not Shown)	1
48	MT22-1141	Retaining Ring	4
49	MT22-1142	Union Nut	4
50	MT22-1143A	Tube Vent, L.H. **(Includes Items #48 and 49)**	1
	MT22-1143B	Tube Vent, R.H. **(Includes Items #48 and 49)**	1
51	MT22-1144	Pipe Fitting	2
52	MT22-1245	Plug, M8 X 12 - 1.25	2
53	MT22-1125	Bolt, Turn Stop M20 X 47 - 1.5	2
54	MT22-1126	Hex Nut, Special	2
55	MT94-4359	Dowel Pin	2
56	MT22-1103	Dowel Pin	2
57	MT22-1127	Stud, Steering Arm/Tie Rod Arm	8
58	MT25-1125A	Spacer to the Bumper	AR
	MT25-1125B	Spacer to the Bumper	AR
	MT25-1125C	Spacer to the Bumper	AR
59	MT94-4358	Spacer	2
60	MT22-1128	Brake Chamber Bracket, L.H.	1
	MT22-1129	Brake Chamber Bracket, R.H.	1
61	MT25-1130	Steering Arm, L.H.	1
	MT25-1131	Steering Arm, R.H. (Not Shown)	1
62	85T23-08	Lock Wire	2
63	MT22-1124	Castle Nut	8
64	MT22-1320	Tie Rod Arm, L.H.	1
	MT22-1321	Tie Rod Arm, R.H. (Not Shown)	1
65	MT22-1114	Roller Bearing, Axle Shaft, Outer	2
66	MT22-1115	Snap Ring	2
67	MT22-1116	Oil Seal, Axle Shaft, Outer	2
68	MT22-1117	Dust Shield, Axle Shaft, (Includes Felt Wiper)	2
69	11500190	Lock Washer, M6	8
70	11503946	Hex Bolt, M6 X 12	8
71	MT22-1215	Thrust Bearing Kit **(Incl. Items #18, 19, 20, 21)**	2
72	MT22-1285	O-Ring (119 X 5)	2
73	MT22-1205	Seal Holder Assembly **(Incl. Items #11, 12, 13)**	2
74	MT22-1253	Nut, Wheel Bearing Kit **(Incl. Items #30, 31)**	2
		AR = As Required	

AXLE HOUSING — MT25H

AXLE SHAFT ASSEMBLY
MT25H



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ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT25-1206 MT25-1207	Axle Shaft Assy., Short Spline** Axle Shaft Assy., Long Spline**	1 1				

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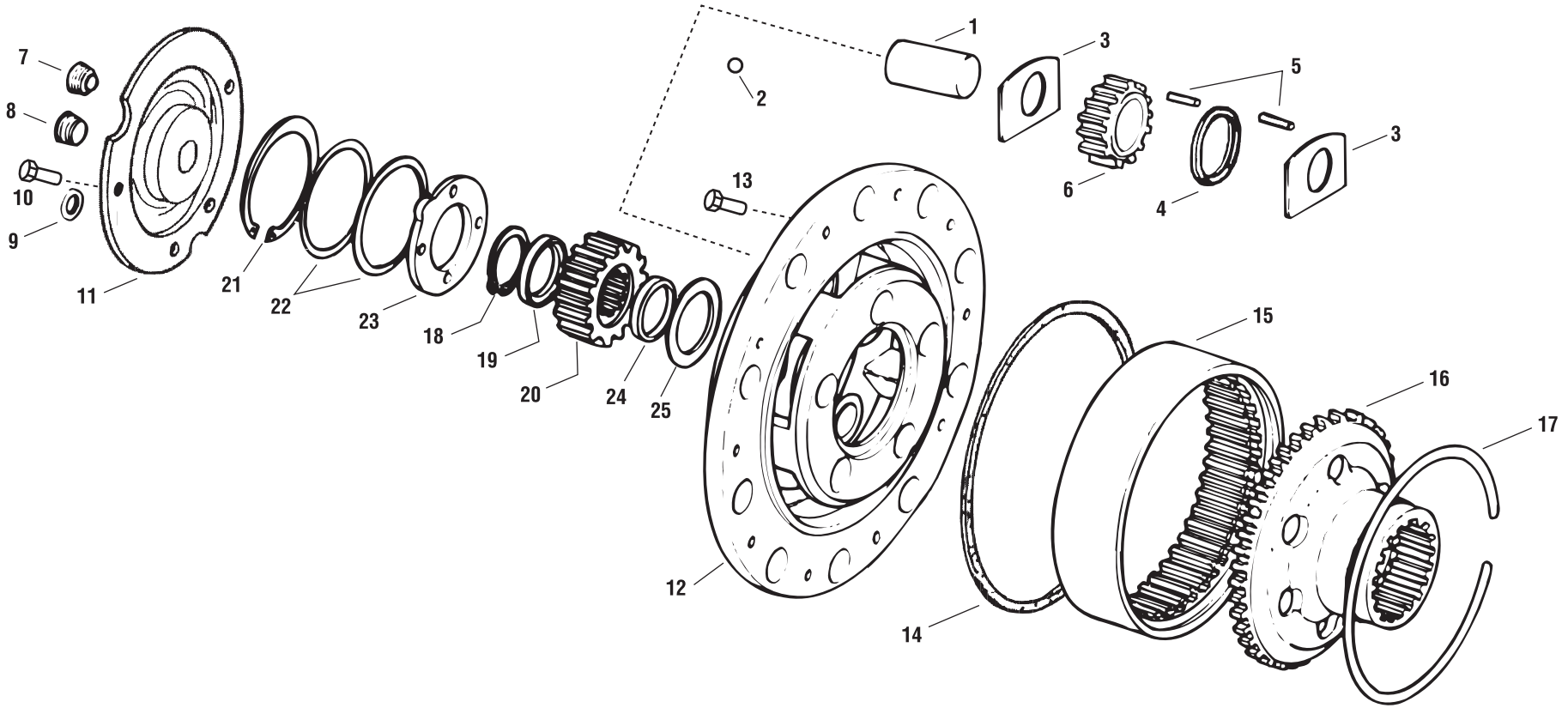
AXLE SHAFT ASSEMBLY
MT25H

PLANETARY
MT25H



Marmon-Herrington

CB04/13

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.	ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT25-1217	Planet Gear Pin	10				
2	MT14-1218	Steel Ball	10				
3	MT25-1219	Distance Plate	20				
4	MT25-1221	Distance Plate	10				
5	MT25-1220	Needle Roller	380				
6	MT25-1228	Planet Gear	10				
7	MT14-1071	Magnetic Drain Plug	2				
8	MT14-1070	Fill Plug	2				
9	11500191	Flat Lock Washer	10				
10	11500713	Hex Bolt, M10 X 20	10				
11	MT25-1156	End Cover	2				
12	MT25-1161	Planet Gear Carrier	2				
13	MT25-1223	Hex Bolt	40				
14	MT25-1222	O-ring	2				
15	MT25-1162	Planetary Ring Gear	2				
16	MT25-1163	Ring Gear Support Hub	2				
17	MT25-1264	Retaining Ring	2				
18	MT22-1154	Snap Ring	2				
19	MT25-1153	Spacer	2				
20	MT25-1152	Sun Gear	2				
21	MT14-1084	Snap Ring	2				
22	MT22-1158A	Shim, 0.25 MM	AR				
	MT22-1158B	Shim, 0.50 MM	AR				
	MT22-1158C	Shim, 2.00 MM	AR				
23	MT22-1159	Friction Disk	2				
24	MT25-1151	Distance Ring	2				
25	MT25-1150	Friction Disk	2				
		AR = As Required					

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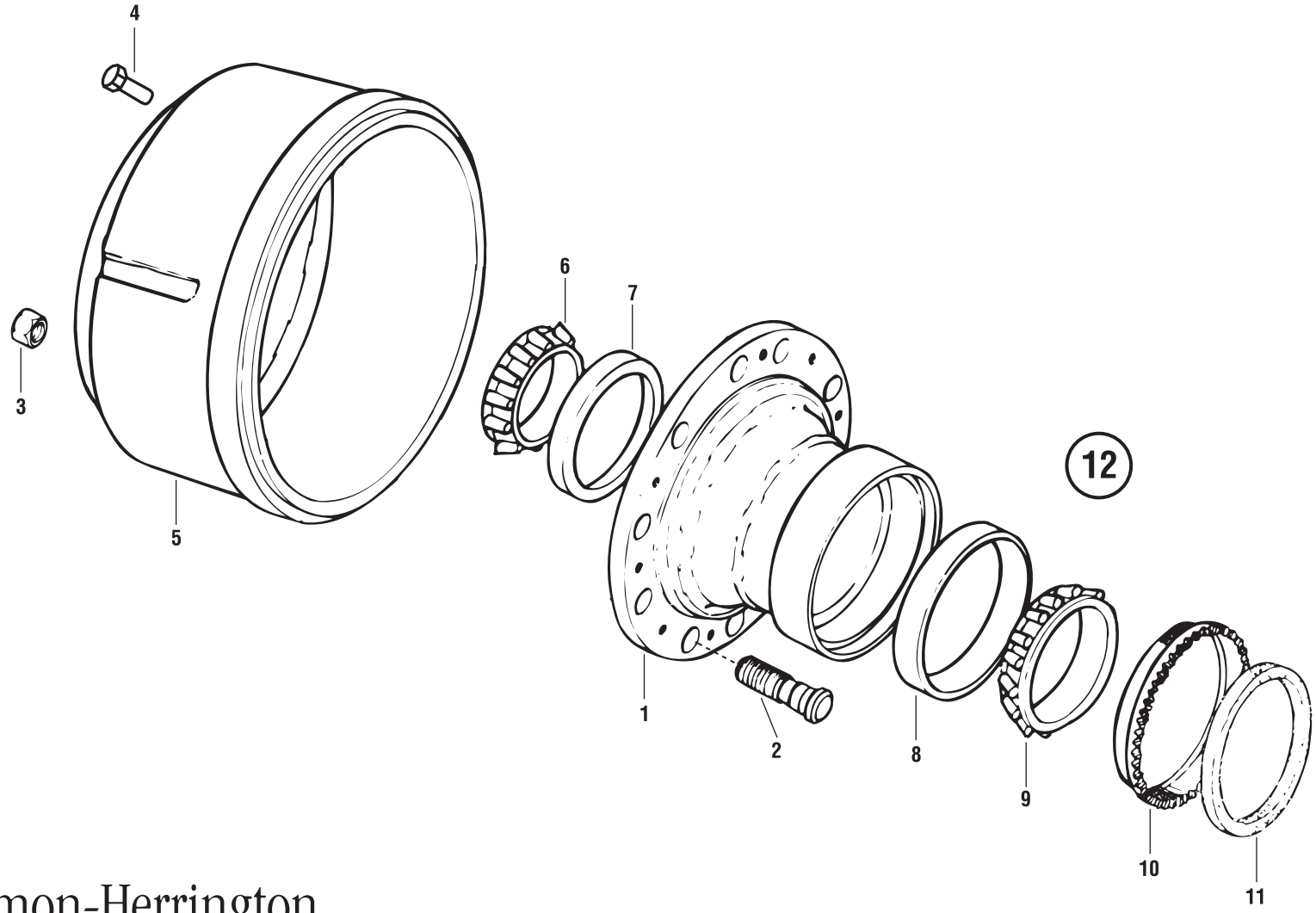
WHEEL HUB, BRAKE DRUM
MT25H



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ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT25H-1168	Hub Assembly **(Includes Items #2, 6, 7, 8, 9, 10, 11)**	2
2	MT25-1134	Wheel Stud Hub Pilot	20
3	MT93-1197	Flange Wheel Nut	20
4	11500723	Hex Bolt, M10 X 20 - 1.5	4
5	MT22-1165	Brake Drum	2
	MT22-1165W	Brake Drum	2
6	MT22-1166	Wheel Bearing, Cone, Outer	2
7	MT22-1167	Wheel Bearing, Cup, Outer	2
8	MT22-1170	Wheel Bearing, Cup, Inner	2
9	MT22-1171	Wheel Bearing, Cone, Inner	2
10	MT25-1266	Exciter Ring	2
11	MT22R-1172	Hub Seal	2
12	MT22-1216	Bearing Kit Hub **(Includes Items #6, 7, 8, 9)**	1
		AR = As Required	

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

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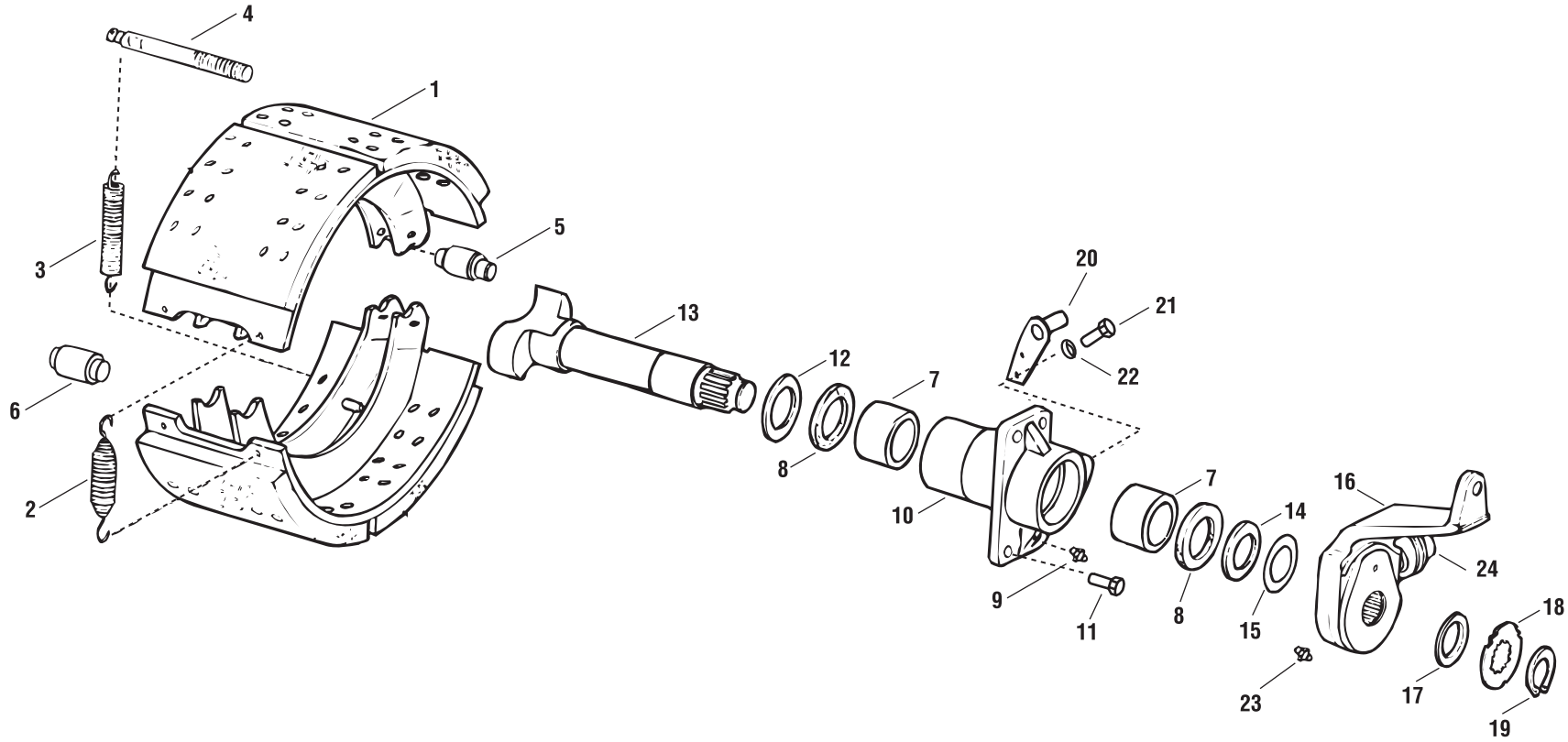
WHEEL HUB, BRAKE DRUM
MT25H

Marmon-Herrington

BRAKE
MT25H



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ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1164	Brake Shoe Assembly	4
	MT22-1255	Brake Shoe Kit	2
		(Includes Items #2, 3, 5, 6)	
2	MT22-1177	Brake Shoe Return Spring	4
3	MT14-1157	Return Spring, Short	4
4	MT22-1173	Pin, Spring Support	4
5	MT22-1178	Brake Shoe Roller	4
6	MT22-1243	Brake Shoe Pin	4
7	MT22-1180	Bushing	4
8	MT22-1179	Oil Seal	4
9	111759	Grease Fitting	2
10	MT22-1181	Spanner Housing Assy., L.H.	1
		(Includes Items #7, 8 and 9)	
	MT22-1182	Spanner Housing Assy., R.H.	1
		(Includes Items #7, 8 and 9)	
11	MT22-1183	Hex Bolt Special	8
12	MT25-1267	Spacer	2
13	MT22-1197	Cam Shaft, L.H.	1
	MT22-1198	Cam Shaft, R.H.	1
14	MT22-1201	Spacer	2
15	MT22-1199	Shim, .50 MM	AR
16	MT25-1237	Automatic Slack Adj., L.H.	1
	MT25-1238	Automatic Slack Adj., R.H.	1
17	MT22-1185	Spacer	2
18	MT22-1187	Wear Indication Disk	2
19	MT22-1186	Snap Ring	2
20	MT22-1239	Bumper Assy., L.H.	1
	MT22-1240	Bumper Assy., R.H.	1
21	11500866	Bolt M8 X 14 - 1.25	4
22	11500191	Lock Washer M8	4
23	191758	Grease Fitting, 1/8	2
	191759	Grease Fitting, M8 X 1.00	2
24	MT22-1246	Cap, Automatic Slack Adj., L.H.	1
	MT22-1247	Cap, Automatic Slack Adj., R.H.	1
	11500773	Bolt, M8 X 16 - 1.25	2
	11503950	Bolt, M6 X 20 - 1.00	2

AR = As Required

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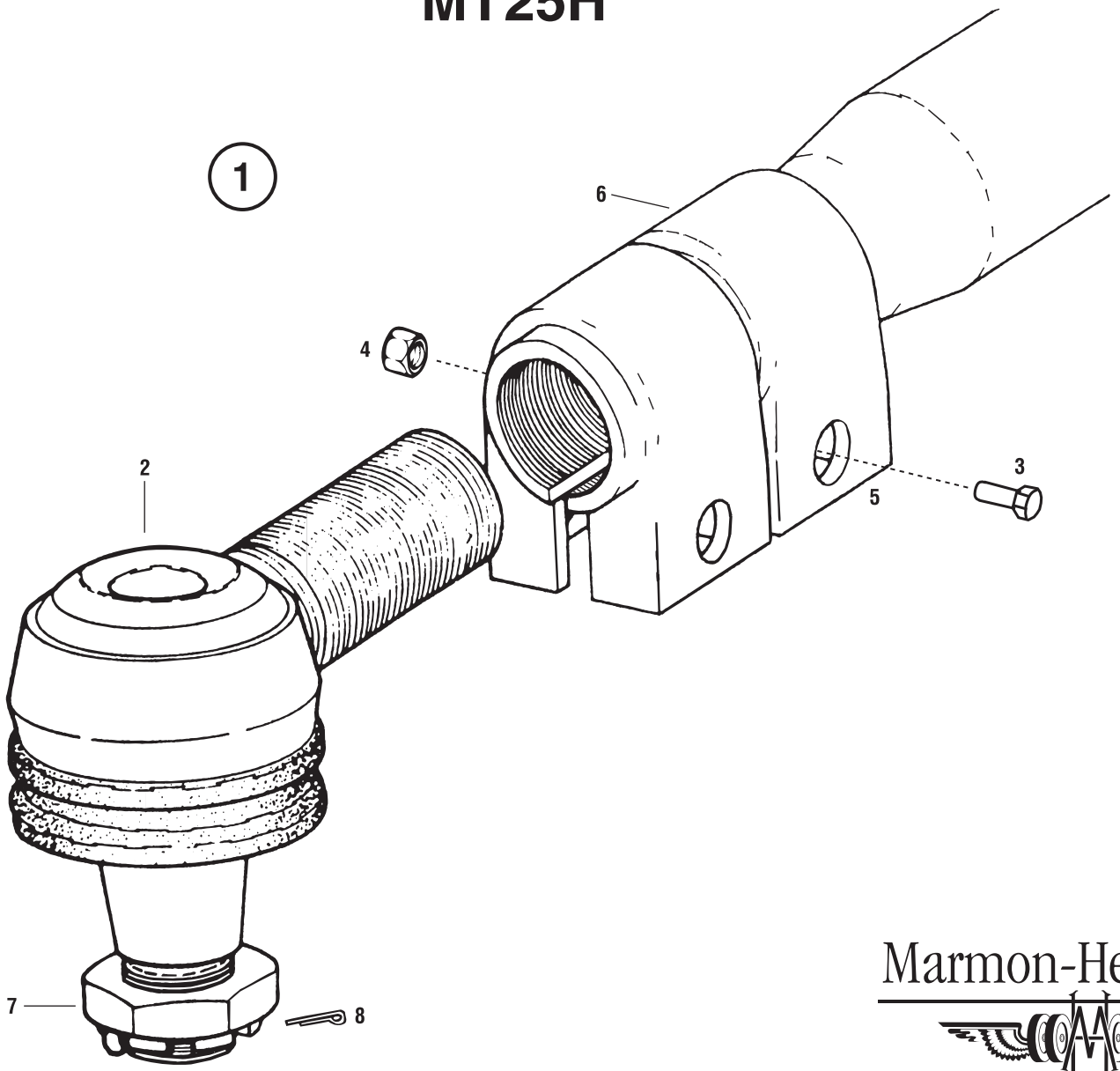
BRAKE
MT25H

TIE-ROD
MT25H



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CB04/13

ITEM NO.	MH PART NO.	DESCRIPTION	QTY. REQ.
1	MT22-1188	Tie Rod Assembly	1
2	MT22-1189	Ball Stud Assy., R.H.	1
	MT22-1190	Ball Stud Assy., L.H.	1
3	MT22-1191	Hex Bolt, Special	4
4	MT22-1192	Castle Nut, M16 X 1.5	4
5	103387	Cotter Pin, 1/8" X 1-1/2"	4
6	MT22-1194	Tie Rod	1
7	MT22-1195	Castle Nut	2
8	103422	Cotter Pin, 1/4" X 2"	2

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

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TIE-ROD
MT25H

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CB04/13

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