

\*RESTRICTED

ORDNANCE SUPPLY CATALOG

Group G

Technical Reference TM 9-731A

List of all Service Parts  
for

TANK, MEDIUM,  
M4A1

76 mm. GUN, WET

**GENERAL INFORMATION** This is a list of all items of Service for the Tank, Medium, M4A1 (76 mm. Gun, Wet) arranged according to standardized government grouping. *WARNING: Many of the parts listed herein are not stocked for issue. See ORD 7 and 8 of the appropriate major combination SNL for those parts stocked for issue. In case parts not listed in ORD 8 are needed, separate requisitions for these parts should be forwarded through normal supply channels with justification therefor.*

This list of all service parts is to be used for identification and storage purposes. Every individual part is not necessarily stored by itself; in fact, many parts are stored as authorized assemblies. Such assemblies are indicated herein. The components, however, of such assemblies that are items of service are listed alphabetically within the appropriate groups with the number of each particular part required per unit assembly.

For full information relative to the Ordnance Supply Catalog, the procedure followed and the principles employed in their compilation, together with the purposes and uses thereof, see ORD 1, Introduction; ORD 2, Index; and the (OPSR) Ordnance Provision System Regulations.

**FEDERAL STOCK NUMBERS**—Classifications Codes for Federal Stock Numbers listed herein will be found in ORD 5-2 "Stock List."

QUICK REFERENCE INDEX

GENERAL INFORMATION

ORD 9 LIST OF ALL  
SERVICE PARTS

01 ENGINE

02 CLUTCH

03 FUEL

04 EXHAUST

05 COOLING

06 ELECTRICAL

07 TRANSMISSION

09 PROPELLER SHAFT AND  
UNIVERSAL JOINT

10 FINAL DRIVE

13 TRACK SUSPENSION

14 CONTROL

15 FRAME AND BRACKET

16 SHOCK ABSORBER

17 FENDERS

18 HULL

19 TURRET

22 ACCESSORIES

24 FIRE EXTINGUISHER  
SYSTEM

29 AUXILIARY  
GENERATOR

NOTES

INDEXES

## SPECIAL INFORMATION

**Major Item Designation:** The major item covered by this catalog is designated as a combat vehicle as defined in paragraph 3, AR 850-15, dated 28 August 1943.

### **Ordnance or Manufacturer Part Number and Ordnance or Manufacturer Drawing Number:**

In columns 4 and 5 manufacturers' numbers will always appear in parentheses. When more than one number applies to the same part, all except the first will be indented.

**Components of Kits, Sets and Assemblies:** Whenever any doubt might exist as to the components of an assembly, an explanatory statement or a complete listing of components is furnished. For all KITS and SETS a complete listing of components is given. Wherever separate items are shown which are also part of a KIT or SET that fact is stated following the nomenclature of the separate item.

**Attaching Parts:** Attaching parts such as bolts, nuts, rivets, screws and washers are intended immediately under the part or assembly which they attach. Whenever two similar items, such as right and left cylinder heads, optional generators, two fuel tanks, superesding spring assemblies, etc., have the same attaching parts, the attaching parts are listed only after the last of the similar parts. The quantities shown for the attaching parts are for both right and left cylinder heads, or only one of the optional generators, etc.

**Illustrations:** This catalog contains various illustrations to aid the user in locating and identifying parts. These are so placed as to be convenient for reference in connection with the text. For each part identified on an illustration the noun, part number and group number of the item is given. An index of illustrations by number, title and page is included with other indexes at the back of the book.

**Indexes:** Complete indexes, alphabetical and numerical, are furnished at the back of the book. These indexes and contents are explained in brief paragraphs at the beginning of each index.

**Stock Numbers:** The prefix of the SNL type stock number (i.e. G067, G502, etc.) signifies that the particular part or component was originally coded under the major item designation for that SNL and does *NOT* mean that the part is used only in that major item. All subsequent lists include that same part will show the identical stock number.

### **Publications Pertaining To This Vehicle:**

Operator's Manual	TM 9-731E	
Maintenance Manuals	TM 9-1750B	Power Train (one-piece differential)
	TM 9-1750C	{ American Bosch Magnetos MJT7A302, MJT9A304 and MJT 9A306
	TM 9-1750K	Tracks and Suspension and Hull
	TM 9-1751	Continental Engine (model R975-C1)
	TM 9-1825A	Delco-Remy Electrical Equipment
	TM 9-1825B	Auto-Lite Electrical Equipment
	TM 9-1826B	Stromberg Carburetors

**Interchangeability of Components:** The major components of this vehicle are interchangeable with those of other vehicles on the M4 tank chassis.

The Continental radial gasoline engine (R975-C1 and C4) in this vehicle is similar to that used in the following and information may be had by referring to the SNL's listed:

Tank, Medium, M4 (75-mm. Gun, Dry)	SNL G-104, Vol. 6
Tank, Medium, M4A1 (75-mm. Gun, Dry)	SNL G-104, Vol. 11
Tank, Medium, M4 (105-mm. Howitzer)	SNL G-104, Vol. 14
Carrier, Cargo, M30 (T14)	SNL G-158
Carriage, Motor, 155-mm. Gun, M12	SNL G-158
Carriage, Motor, 76-mm. Gun, M18 (T70)	SNL G-163
Carriage, Motor, 105-mm. Howitzer, M7	SNL G-128
Vehicle, Utility, Armored, T41	SNL G-163

The differential and final drives, transmission, track and volute spring suspension are the same as or similar to all vehicles mentioned above (except Carriage, Motor, 76 mm. Gun M18 (T70) and Vehicle, Utility, Armored, T41), as well as the other vehicles based on the M4 series tank chassis.

#### **Identification Plates For Vehicle and Principal Components:**

The location of the various serial numbers is as follows:

Name of Unit	Location
BATTERY	Cell Connector at Top of Battery
VOLUTE SPRING SUSPENSION	Top of Main Casting
CRANKING MOTOR	On Motor Housing
EMERGENCY STOP SOLENOID	On Housing
ENGINE	On Main Case Top
FIRE EXTINGUISHER CONTROL	On Face of Housing
GENERATOR	On Generator Housing
GENERATOR REGULATOR	On Cover
50 CAL. MACHINE GUN	Right Side of Magazine
50 CAL. MACHINE GUN MOUNT	Top of Bracket
THOMPSON-SUB-MACHINE GUN	Left Side of Magazine
POWER TRAIN	Center of Top Slope on Differential Housing
QUADRANT, ELEVATING	Plate on Side Cover
TELESCOPE	Plate on Mounting Bracket
VEHICLE	Left Hull Side Plate at Driver's Seat

**Definition of Locational Terms:** All like parts on the vehicle which are not interchangeable are designated Left and Right in respect to their position in the vehicle when it is viewed from the rear facing forward. The engine end of the vehicle is considered the rear end.

**How to Find Parts:** This catalog is arranged and cross-indexed so that parts can be found easily even though only one of the several identifying factors is known. The various ways in which parts can be located are as follows:

If the nomenclature (basic name) only is known, refer to the alphabetical index in the back of the book. This index will give the subgroup in which the part is listed. As the part names are arranged in alphabetical order within the subgroups, the complete listing of the part can readily be found.

If any one of the numbers—Ordnance, manufacturers' or stock—is known, refer to the appropriate numerical index in the back of the book. This index will give the subgroup number in which the part is listed. By checking in the appropriate number column in that subgroup, the complete listing of the part can readily be found.

If the use, function or location, of the part is known, refer to the illustration index to determine on which the part in question is most likely to appear. Then turn to the proper illustration and pick the proper part from which reference to the proper nomenclature, part and stock number, etc. can be determined. Also reference to the standardized government grouping immediately following this explanation will be of help in selecting parts upon a functional basis.

**Notice:** of discrepancies or suggested changes should be directed to Office, Chief of Ordnance—Detroit, Maintenance Division, Military Publications Branch, SPOMM-BM, Detroit 32, Michigan.

## SPECIAL INFORMATION

**Major Item Designation:** The major item covered by this catalog is designated as a combat vehicle as defined in paragraph 3, AR 850-15, dated 28 August 1943.

### **Ordnance or Manufacturer Part Number and Ordnance or Manufacturer Drawing Number:**

In columns 4 and 5 manufacturers' numbers will always appear in parentheses. When more than one number applies to the same part, all except the first will be indented.

**Components of Kits, Sets and Assemblies:** Whenever any doubt might exist as to the components of an assembly, an explanatory statement or a complete listing of components is furnished. For all KITS and SETS a complete listing of components is given. Wherever separate items are shown which are also part of a KIT or SET that fact is stated following the nomenclature of the separate item.

**Attaching Parts:** Attaching parts such as bolts, nuts, rivets, screws and washers are intended immediately under the part or assembly which they attach. Whenever two similar items, such as right and left cylinder heads, optional generators, two fuel tanks, superesding spring assemblies, etc., have the same attaching parts, the attaching parts are listed only after the last of the similar parts. The quantities shown for the attaching parts are for both right and left cylinder heads, or only one of the optional generators, etc.

**Illustrations:** This catalog contains various illustrations to aid the user in locating and identifying parts. These are so placed as to be convenient for reference in connection with the text. For each part identified on an illustration the noun, part number and group number of the item is given. An index of illustrations by number, title and page is included with other indexes at the back of the book.

**Indexes:** Complete indexes, alphabetical and numerical, are furnished at the back of the book. These indexes and contents are explained in brief paragraphs at the beginning of each index.

**Stock Numbers:** The prefix of the SNL type stock number (i.e. G067, G502, etc.) signifies that the particular part or component was originally coded under the major item designation for that SNL and does *NOT* mean that the part is used only in that major item. All subsequent lists include that same part will show the identical stock number.

### **Publications Pertaining To This Vehicle:**

Operator's Manual	TM 9-731E	
Maintenance Manuals	TM 9-1750B	Power Train (one-piece differential)
	TM 9-1750C	{ American Bosch Magnetos MJT7A302, MJT9A304 and MJT 9A306
	TM 9-1750K	Tracks and Suspension and Hull
	TM 9-1751	Continental Engine (model R975-C1)
	TM 9-1825A	Delco-Remy Electrical Equipment
	TM 9-1825B	Auto-Lite Electrical Equipment
	TM 9-1826B	Stromberg Carburetors

**Interchangeability of Components:** The major components of this vehicle are interchangeable with those of other vehicles on the M4 tank chassis.

The Continental radial gasoline engine (R975-C1 and C4) in this vehicle is similar to that used in the following and information may be had by referring to the SNL's listed:

Tank, Medium, M4 (75-mm. Gun, Dry)	SNL G-104, Vol. 6
Tank, Medium, M4A1 (75-mm. Gun, Dry)	SNL G-104, Vol. 11
Tank, Medium, M4 (105-mm. Howitzer)	SNL G-104, Vol. 14
Carrier, Cargo, M30 (T14)	SNL G-158
Carriage, Motor, 155-mm. Gun, M12	SNL G-158
Carriage, Motor, 76-mm. Gun, M18 (T70)	SNL G-163
Carriage, Motor, 105-mm. Howitzer, M7	SNL G-128
Vehicle, Utility, Armored, T41	SNL G-163

The differential and final drives, transmission, track and volute spring suspension are the same as or similar to all vehicles mentioned above (except Carriage, Motor, 76 mm. Gun M18 (T70) and Vehicle, Utility, Armored, T41), as well as the other vehicles based on the M4 series tank chassis.

#### **Identification Plates For Vehicle and Principal Components:**

The location of the various serial numbers is as follows:

Name of Unit	Location
BATTERY	Cell Connector at Top of Battery
VOLUTE SPRING SUSPENSION	Top of Main Casting
CRANKING MOTOR	On Motor Housing
EMERGENCY STOP SOLENOID	On Housing
ENGINE	On Main Case Top
FIRE EXTINGUISHER CONTROL	On Face of Housing
GENERATOR	On Generator Housing
GENERATOR REGULATOR	On Cover
50 CAL. MACHINE GUN	Right Side of Magazine
50 CAL. MACHINE GUN MOUNT	Top of Bracket
THOMPSON-SUB-MACHINE GUN	Left Side of Magazine
POWER TRAIN	Center of Top Slope on Differential Housing
QUADRANT, ELEVATING	Plate on Side Cover
TELESCOPE	Plate on Mounting Bracket
VEHICLE	Left Hull Side Plate at Driver's Seat

**Definition of Locational Terms:** All like parts on the vehicle which are not interchangeable are designated Left and Right in respect to their position in the vehicle when it is viewed from the rear facing forward. The engine end of the vehicle is considered the rear end.

**How to Find Parts:** This catalog is arranged and cross-indexed so that parts can be found easily even though only one of the several identifying factors is known. The various ways in which parts can be located are as follows:

If the nomenclature (basic name) only is known, refer to the alphabetical index in the back of the book. This index will give the subgroup in which the part is listed. As the part names are arranged in alphabetical order within the subgroups, the complete listing of the part can readily be found.

If any one of the numbers—Ordinance, manufacturers' or stock—is known, refer to the appropriate numerical index in the back of the book. This index will give the subgroup number in which the part is listed. By checking in the appropriate number column in that subgroup, the complete listing of the part can readily be found.

If the use, function or location, of the part is known, refer to the illustration index to determine on which the part in question is most likely to appear. Then turn to the proper illustration and pick the proper part from which reference to the proper nomenclature, part and stock number, etc. can be determined. Also reference to the standardized government grouping immediately following this explanation will be of help in selecting parts upon a functional basis.

**Notice:** of discrepancies or suggested changes should be directed to Office, Chief of Ordnance—Detroit, Maintenance Division, Military Publications Branch, SPOMM-BM, Detroit 32, Michigan.

**Standardized Government Grouping:** The parts listed in this catalog are arranged by groups and subgroups and alphabetically within these groups. Parts are grouped primarily on the basis of their function. This arrangement facilitates location and selection of parts. See "How To Find Parts" in General Information.

## **01 ENGINE GROUP**

- 0100 Engine Assembly
  - 0101.1 Front Crankcase Section
  - 0101.2 Main Crankcase Section
  - 0101.3 Rear Crankcase Section
  - 0101.4 Diffuser Section
  - 0101.5 Cylinder
- 0102 Crankshaft
- 0103 Flywheel
- 0104 Pistons, Rings, Pins, Connecting Rods and Bearings
  - 0105.1 Valves, Guides, Seats and Springs
  - 0105.2 Valve Lifts, Push Rods, Rockers and Tappets
  - 0105.3 Cam Ring and Bearings
- 0106.11 Oil Pumps
- 0106.15 Scavenger Pump
- 0106.2 Oil Filter
- 0106.3 Oil Cooler
- 0106.5 Oil Breather
- 0106.6 Oil Lubrication System and Tanks
- 0106.8 Oil Temperature Regulator
- 0108 Intake and Exhaust Manifolds
- 0109.1 Supercharger Impeller and Drive
- 0109.2 Three-Way Accessory and Fuel Pump Drive
- 0109.3 Cam and Cranking Motor Drive
- 0109.4 Magneto Accessory Drive
- 0109.5 Generator Drive
- 0109.6 Tachometer Drive

## **02 CLUTCH GROUP**

- 0200 Clutch Assembly and Housing
- 0201 Clutch Disc, Facing, Hub, Driven Plates, Pressure Plate, Springs, Pilot Bearing and Spindle
- 0202 Clutch Release Sleeve and Bearing

## **03 FUEL GROUP**

- 0301 Carburetor
- 0302.1 Romec Fuel Pump
- 0302.2 AC Fuel Pump
- 0304 Air Cleaner, Parts, Tubes, Hose and Clamps
- 0306 Fuel Tanks and Lines
- 0308 Engine Speed Governor
- 0309 Fuel Filter
- 0311 Engine Priming System

## **04 EXHAUST GROUP**

- 0401 Exhaust and Tail Pipe

## **05 COOLING GROUP**

- 0502 Engine Cowling and Deflectors
- 0505 Fan

## **06 ELECTRICAL GROUP**

- 0601.1 Auto-Lite Generator
- 0601.5 Delco-Remy Generator
- 0601.8 Eclipse Generator
- 0602.1 Auto-Lite Generator Regulator
- 0603.5 Delco-Remy Cranking Motor
- 0603.8 Eclipse Cranking Motor
- 0604.11 Scintilla Magneto
- 0604.15 Bosch Magneto
- 0604.51 Eclipse Booster Coil
- 0604.55 Auto-Lite Booster Coil
- 0604.58 Delco-Remy Booster Coil
- 0605 Ignition Wiring
- 0607 Instrument Panel and Carrier
- 0608 Switches, Breakers and Terminal Boxes
- 0609.1 Head Lamps, Tail and Marker Lamps and Lamp-Units
- 0609.2 Auxiliary Lights
- 0611 Horn, Horn Cable and Switch
- 0612 Batteries

- 0613.1 Hull Wiring
  - 0613.2 Turret Wiring Electrical Equipment
  - 0614 Turret Collector Ring Box
  - 0616 Ventilating Equipment
- 07 TRANSMISSION**
- 0701 Transmission Case, Caps, Covers, Filler and Oil Seals
  - 0702.1 Input Shaft Bearings, Gears, Snap Rings, Spacer and Synchronizer
  - 0702.2 Output Shaft Gears, Bearings, Main Drive Pinion, Spacers, Synchronizer and Snap Ring
  - 0702.3 Countershaft Bearings, Gears and First Speed Idler
  - 0704 Forks, Gear Shift Levers, Rods and Yokes
  - 0706.1 Transmission Oil Pump
  - 0706.3 Transmission Oil Cooler and Relief Valve
  - 0706.5 Transmission Breather
  - 0706.6 Transmission Oil Lines
- 09 PROPELLER SHAFT and UNIVERSAL JOINT GROUP**
- 0900 Propeller Shaft and Universal Joint Assembly and Parts
- 10 FINAL DRIVE GROUP**
- 1000 Differential and Final Drive Assembly
  - 1001 Differential Housing
  - 1002 Differential Bearings, Carrier, Gears, Pinions and Balancing Units
  - 1004 Differential Steering Brakes
  - 1005.5 Differential Breather
  - 1005.6 Differential Fittings, Line and Oil Sump
  - 1008.1 Final Drive Assembly
  - 1008.2 Final Drive Bearings, Cover, Gears, Pinions and Shafts
- 13 TRACK SUSPENSION GROUP**
- 1301 Vertical Volute Spring Suspension Assembly and Parts
  - 1302 Vertical Track Support Rollers and Brackets
  - 1303 Narrow Track Idlers and Brackets
  - 1304 Narrow Track Drive Sprockets
  - 1305.1 Narrow Track, Rubber, Non-Reversible T-51
  - 1305.3 Narrow Track, Rubber—Chevron T-48
  - 1305.5 Narrow Track, Steel—Chevron T-49
  - 1305.7 Narrow Track, Steel—Chevron T-54E1
  - 1305.8 Narrow Track, Steel—Chevron T-56
  - 1301 Horizontal Volute Spring Suspension Assembly and Parts
  - 1302 Horizontal Suspension Track Support Roller
  - 1303 Wide Track Rear Idler
  - 1304 Wide Track Drive Sprockets
  - 1305 Wide Tracks, T-66, T-80, and Connections
- 14 CONTROL GROUP**
- 1401 Steering Controls
  - 1402 Accelerator and Throttle Controls
  - 1403 Clutch Controls
- 15 FRAME and BRACKET GROUP**
- 1503 Pintles and Towing Attachments
- 16 SHOCK ABSORBER**
- 1604 Shock Absorber
- 17 FENDERS**
- 1701 Fenders and Sand Shields
- 18 HULL GROUP**
- 1801 Hull Mounting and Attaching Parts
  - 1803.11 Hull Floor Escape Door, Assembly—E4162A
  - 1803.12 Hull Floor Escape Door, Assembly—7069430
  - 1803.2 Stationary Periscope Holder and Periscope Housing, Drivers and Assistant Driver's Door
  - 1803.3 Driver's and Assistant Driver's Door
  - 1804 Gun Barrel Traveling Lock
  - 1805 Hull Drain Valve
  - 1806 Driver's and Assistant Driver's Seat
  - 1808 Stowage Boxes, Racks and Straps

## **19 TURRET GROUP**

- 1901 Crash Pad
- 1901.1 Turret Race Assembly
- 1901.21 Turret Traversing Lock
- 1901.25 Turret 76mm. Gun Traveling Lock, Assembly—7053894
- 1901.26 Turret 76mm. Gun Traveling Lock, Assembly—7069718
- 1901.31 Gunner's Seat
- 1901.35 Loader's and Commander's Seat
- 1903.11 Commander's Cupola
- 1903.15 Turret Escape Hatch, Assembly—D94598
- 1903.16 Turret Escape Hatch, Assembly—7054011
- 1903.18 Pistol Port
- 1903.21 Turret Periscope Housing
- 1903.25 Turret Sighting Device
- 1905.1 Turret Hand Traversing Mechanism
- 1905.2 Turret Power Traversing Mechanism Bearings, Cases and Gears
- 1905.3 Turret Power Traversing Mechanism Hydraulic Motor
- 1905.5 Turret Power Traversing Mechanism Hydraulic Pump
- 1905.61 Turret Power Traversing Mechanism Hydraulic Pump Control and Gun Firing Handle
- 1905.65 Turret Power Traversing Mechanism Hydraulic Pump Pilot Valve and Dual Control Assembly—C100603
- 1905.68 Turret Power Traversing Mechanism Hydraulic Pump Pilot Valve and Dual Control Assembly—7068143
- 1905.7 Turret Power Traversing Mechanism Reservoir and Lines
- 1905.9 Turret Power Traversing Mechanism Electric Motor
- 1906 Turret Stowage and Ammunition Boxes

## **22 ACCESSORIES GROUP**

- 2208.1 Speedometer, Adapters and Drive Shaft
- 2208.2 Tachometer, Adapters and Drive Shaft
- 2209.1 Azimuth Indicator and Parts
- 2209.2 Compass

## **24 FIRE EXTINGUISHER SYSTEM GROUP**

- 2401 Portable and Stationary Fire Extinguisher Systems

## **29 AUXILIARY GENERATOR GROUP**

- 2900 Auxiliary Generator and Engine Assembly
- 2911 Auxiliary Engine Crankcase, Barrel, Cylinder Block and Head
- 2912 Auxiliary Engine Crankshaft and Bearings
- 2913 Auxiliary Engine Flywheel
- 2914 Auxiliary Engine Pistons, Bearings, Connecting Rods, Pins and Rings
- 2918 Auxiliary Engine Intake and Exhaust Manifolds and Heat Controls
- 2931 Auxiliary Engine Carburetor
- 2933 Auxiliary Engine Air Cleaner
- 2935 Auxiliary Engine Fuel Tanks, Fittings, Level Gages and Lines
- 2937 Auxiliary Engine Fuel Filter
- 2939 Auxiliary Engine Fuel Shut-Off Valve
- 2941 Auxiliary Engine Muffler, Exhaust and Tail Pipes
- 2961 Auxiliary Engine Generator
- 2964.1 Auxiliary Engine Distributor or Magneto
- 2965 Auxiliary Engine Ignition Coil, Wiring, Spark Plugs and Switches
- 2967 Auxiliary Engine and/or Generator Instruments, Panel Wiring, Control Panel and Mountings

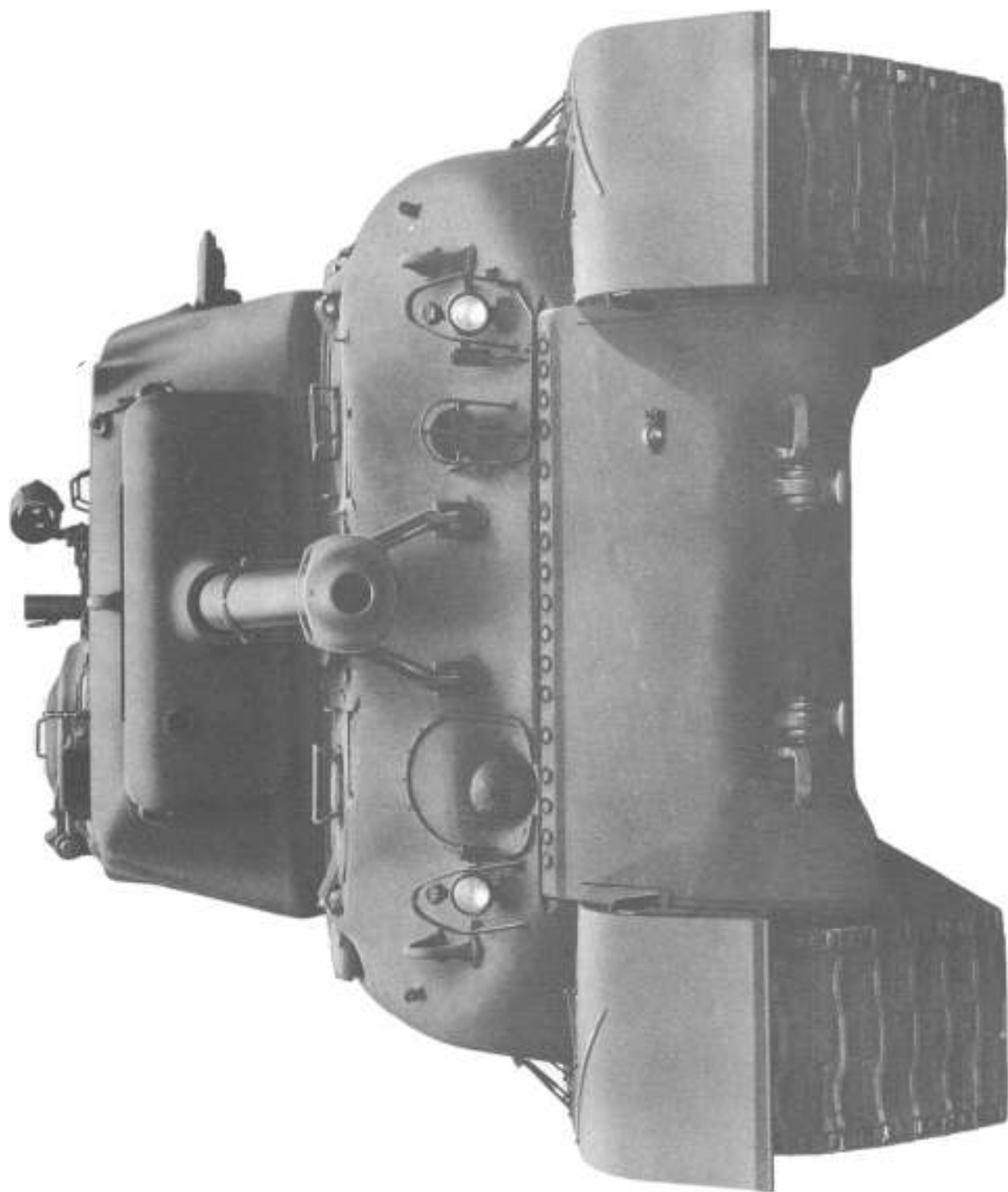


**Manufacturers' Identification Symbols:** Listed below are the symbols used as prefixes to the manufacturers' numbers appearing in this book. This symbol indicates the manufacturer whose number is used for each item.

AC	AC SPARK PLUG DIVISION (G.M.C.)	Flint, Michigan
ACC	AMERICAN CABLE DIVISION (AMERICAN CHAIN AND CABLE CO.)	230 Park Ave., New York 17, N. Y.
AD	ALEMITE DIVISION (STEWART-WARNER CORP.)	1826 Diversey Pkwy., Chicago, Ill.
AIR	AIR CORPS STANDARD	
AL	ELECTRIC AUTO LITE CORP.	Mulberry and Champ St., Toledo, Ohio
AN	ARMY NAVY STANDARD	
BN	BANTAM BEARING CORP.	South Bend 21, Ind.
BO	AMERICAN BOSCH CORP.	3664 Main St., Springfield, Mass.
BS	BENDIX-STROMBERG CARBURETOR CO.	South Bend, Ind.
BZ	BREEZE CORP., INC.	24 S. Sixth St., Newark, N. J.
CC	CHRYSLER CORP.	Detroit 31, Mich.
CM	CHICAGO RAWHIDE MANUFACTURING CO.	1303 Elston Ave., Chicago, Ill.
CP	CHAMPION SPARK PLUG CO.	Toledo, Ohio
CU	CUNO ENGINEERING CORP.	80 S. Vine St., Meriden, Conn.
CWR	CONTINENTAL-BUILT WRIGHT ENGINES (CONTINENTAL MOTORS CORP.)	205 Market St., Muskegon, Mich.
DN	DONALDSON CO., INC.	666 Pelham St., St. Paul, Minn.
DR	DELCO-REMY DIVISION (G.M.C.)	901 S. Main St., Delphos, Ohio
DV	DOLE VALVE CO.	1901 Carroll Ave., Chicago, Ill.
EC	ECLIPSE-PIONEER DIV. (BENDIX AVIATION CORP.)	Teterboro, N. J.
FE	FEDERAL ELECTRIC CO.	8700 S. State St., Chicago, Ill.
FL	FULTON CO.	1912 S. 82nd St., Milwaukee 14, Wis.
GM	GENERAL MOTORS CORP.	3044 W. Grand Blvd., Detroit, Mich.
HC	COLE-HERSEE CO.	54 Old Colony Ave., So. Boston 27, Mass.
HL	HOMELITE CORP.	Port Chester, N. Y.
HR	HARRISON RADIATOR CORP.	Washburn and Walnut Sts., Lockport, N. Y.
HY	HYATT BEARINGS DIV. (G.M.C.)	P. O. Box 71, Harrison, N. J.
LI	LISLE CORP.	807 E. Main St., Clarinda, Iowa
LPC	LA PLANTE-CHOATE MFG. CO., INC.	2920 First Ave. E., Cedar Rapids, Iowa
LPE	LIPE-ROLLAWAY CORP.	208 S. Geddes St., Syracuse 1, N. Y.
MRC	MARLIN-ROCKWELL CORP.	402 Chandler St., Jamestown, N. Y.
MTM	MILLER MANUFACTURING CO.	1725 Sixteenth St., Detroit 16, Mich.
MZ	"MAZDA"—GENERAL ELECTRIC CO.	Schenectady 5, N. Y.
ND	NEW DEPARTURE DIVISION (G.M.C.)	Bristol, Conn.
NMB	NATIONAL MOTOR BEARING CO.	Redwood City, Calif.
NMB	NATIONAL MOTOR BEARING CO.	1100 78th Ave., Oakland, Calif.
NP	NEW PROCESS GEAR CO.	500 Plum St., Syracuse, N. Y.
OG	OIL GEAR CO. (THE)	1403 W. Bruce St., Milwaukee, Wis.
PG	PIERCE GOVERNOR	1605 Ohio St., Anderson, Ind.
QMC	QUARTERMASTER DEPARTMENT	
RB	ROLLER BEARING CO. OF AMERICA	480 Whitehead Rd., Trenton, N. J.
RE	ROMEC PUMP CO.	Alsbe Rd. and Taylor St., Elyria, Ohio
SC	SIGNAL CORPS	
SCI	SCINTILLA MAGNETO DIV. (BENDIX AVIATION CORP.)	Sidney, N. Y.
SK	SHAKEPROOF LOCK WASHER CO.	2501 N. Keeler Ave., Chicago, Ill.
SKF	S.K.F. INDUSTRIES, INC.	Front St. and Erie Ave., Philadelphia, Pa.
SLR	SEAMLESS RUBBER CO.	253 Hallock Ave., New Haven 3, Conn.
SN	SNAP-ON TOOLS CORP.	441 Central Ave., Newark, N. J.
SP	SPICER MANUFACTURING CO.	4100 Bennett Rd., Toledo, Ohio
STY	STALEY MANUFACTURING CORP.	14th and Union Sts., Columbus, Ind.
SW	STEWART-WARNER CORP.	1828 Diversey Pkwy., Chicago, Illinois
TD	TIMKEN DETROIT AXLE CO.	Clark Ave., Detroit, Mich.
TI	TITEFLEX METAL HOSE CO.	501 Frelinghuysen Ave., Newark, N. J.
TIM	TIMKEN ROLLER BEARING CO.	1935 Kelley Ave., Canton, Ohio
TL	TILLOTSON MFG. CO.	Walcott Blvd., Toledo, Ohio
TRU	TRU-STOP (AMERICAN CHAIN & CABLE CO.)	Bridgeport 2, Conn.
VG	VICTOR MANUFACTURING & GASKET CO.	5750 Roosevelt Rd., Chicago, Ill.
VR	VORTOX MANUFACTURING CO.	121 S. Alexander Ave., Claremont 7, Calif.
WCE	WICO ELECTRIC CO.	Phelon Ave., Providence, R. I.
WE	WESTINGHOUSE ELECTRIC & MFG. CO.	East Pittsburgh, Pa.
WH	WEATHERHEAD CO.	300 E. 131st St., Cleveland, Ohio
WIL	WILCOX RICH (DIVISION OF EATON MANUFACTURING CO.)	9771 French Rd., Detroit, Mich.
WK	KIDDE & CO., INC., WALTER	675 Main St., Belleville 9, N. J.
WL	WELLMAN CO. (THE), S. K.	1374 E. 51st St., Cleveland 3, Ohio
WR	WRIGHT AERONAUTICAL CORP.	132 Beckwith Ave., Paterson, N. J.

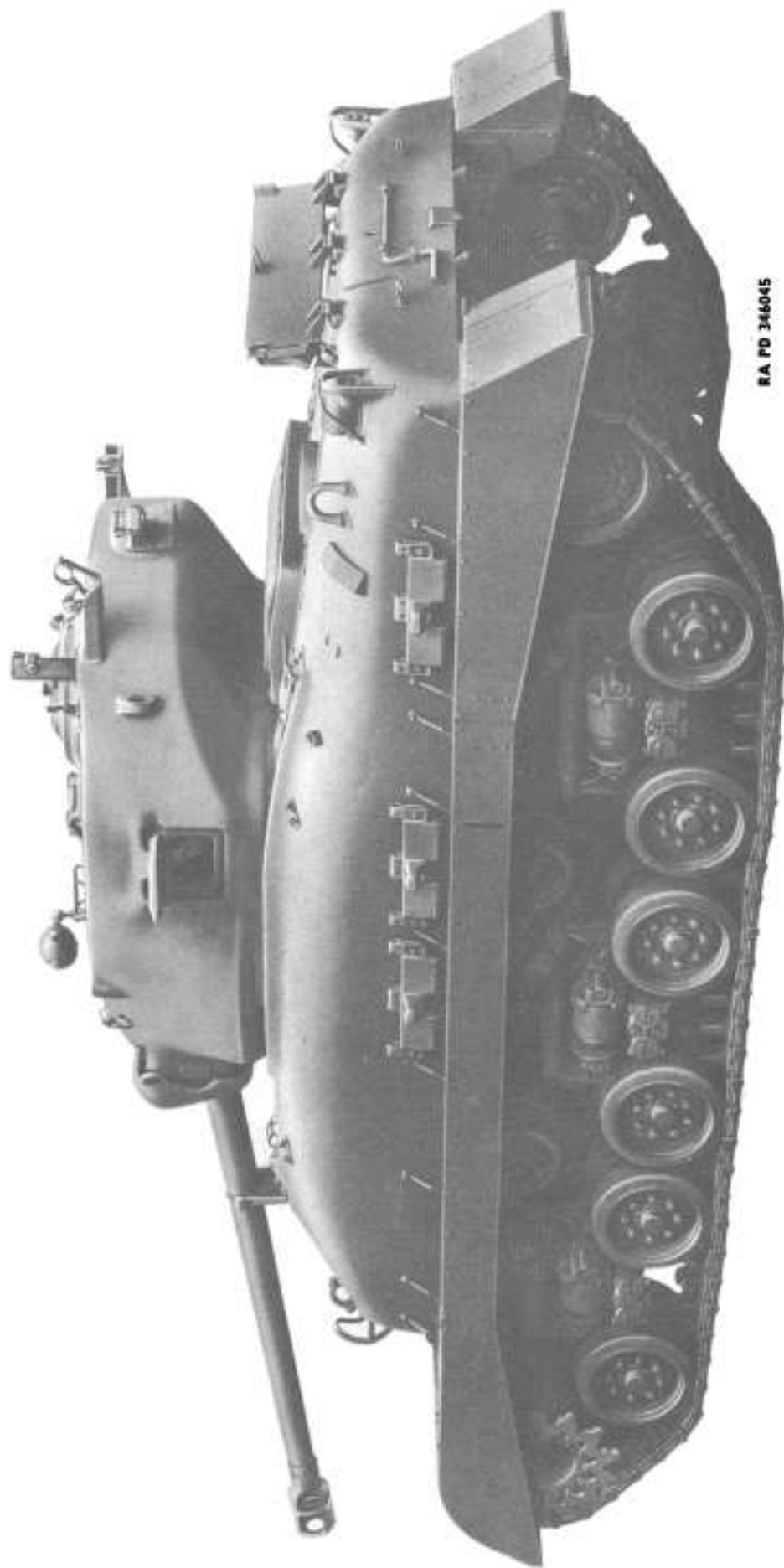
**List of Abbreviations:** The following is a list of the standard abbreviations appearing in this catalog.

alloy-S.....	alloy steel	min.....	minimum
anld.....	annealed	mm.....	millimeter
ass'y.....	assembly	NC.....	National Coarse
b-hd.....	button head	NF.....	National Fine
br.....	brass	ni.....	nickel
brght.....	bright	No.....	number
bz.....	bronze	NPT.....	National Pipe Thread
cd.....	cadmium	NS.....	National Form Special
cal.....	caliber	O.D.....	outside diameter
ck.....	countersunk	oz.....	ounce
cont.....	continued	pltd.....	plated
cp.....	candle-power	pt.....	point
D.R.....	double row	reg.....	regular
diam.....	diameter	rd.....	round
dld.....	drilled	rds.....	rounds
fil.....	fillister	req.....	required
fil-hd.....	fillister head	R.H.....	right hand
fl.....	flat	Rt.....	right
f/.....	for	S.....	steel
f/lkg.....	for locking	SAE.....	Society of Automotive Engineers
gal.....	gallon	s-fin.....	semi-finished
hd.....	head	spec.....	specification
hdls.....	headless	sq.....	square
hv.....	heavy	S.R.....	single row
hex.....	hexagon	std.....	standard
hex-hd.....	hexagonal head	stght.....	straight
lb.....	pound	syn.....	synthetic
I.D.....	inside diameter	T.....	teeth
lgh.....	length	thd.....	thread
lgt.....	light	thk.....	thick
L.H.....	left hand	unfin.....	unfinished
lkg.....	locking	w/.....	with
Lt.....	left	w/o.....	without
mach.....	machine	zn.....	zinc



RA PD 146039

**FIGURE A — TANK, MEDIUM M4A1 (76mm. GUN, WET) — FRONT VIEW**



RA PD 346045

**FIGURE B — TANK, MEDIUM M4A1 (76mm. GUN, WET) THREE QUARTER LEFT REAR**