

ARMY SERVICE FORCES CATALOG

ORD 9 SNL G-128

**LIST OF ALL
SERVICE PARTS**

RESTRICTED

ORDNANCE SUPPLY CATALOG

Group G

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Technical Reference

**TM 9-731E
TM 9-1750B
TM 9-1750K
TM 9-1751**

List of all Service Parts

for

Carriage, Motor, 105-mm Howitzer, M7

Supersedes ORD 9 portion of ORD 7-8-9, SNL G-128, 1 October 1944, and that part of Changes No. 1, 5 November 1944, Changes No. 2, 20 January 1945, Changes No. 3, 15 February 1945 and Changes No. 4, 20 March 1945, that apply to the ORD 9 portion.

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Headquarters, Army Service Forces, 16 July 1945

Headquarters, Army Service Forces

Washington 25, D.C., 16 July 1945

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SPX #461 (21 June 45)

BY COMMAND OF GENERAL SOMERVELL:

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For explanation of symbols see FM 21-6.

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 |
| 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

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

- 0602.8 Eclipse 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, Instruments, Gages and Mount
- 0608 Circuit Breakers, Terminal and Junction Boxes and Switches
- 0609.1 Head, Tail and Marker Lights, Lamps and Lamp-Units
- 0611 Horn, Siren and Switches
- 0612 Batteries, Cables and Clamps
- 0613.1 Hull Wiring

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
- 0707 Transmission Parking Brake

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 (Double Anchor Brake)
- 1001.5 Differential Housing (Single Anchor Brake)
- 1002 Differential Bearings, Carrier, Gears, Pinions and Balancing Units
- 1004.1 Differential Steering Brakes (Double Anchor Brake)
- 1004.5 Differential Steering Brakes (Single Anchor Brake)
- 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 Volute Spring Suspension Assembly and Parts
- 1302 Track Support Rollers
- 1303 Track Idlers and Brackets, Track Tension Parts
- 1304 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
- 1305.98 Narrow and Wide Track, Steel and Rubber—Chevron T-74

14 CONTROL GROUP

- 1401 Steering Brake Controls
- 1402 Accelerator and Throttle Controls
- 1403 Clutch Controls

15 FRAME and BRACKET GROUP

- 1503 Pintles and Towing Attachments

17 FENDERS

- 1701 Fenders and Sand Shields

18 HULL GROUP

- 1803.1 Door
- 1803.2 Protectoscope
- 1804 Windshield

- 1805 Hull Floor, Seats and Upholstery

- 1808 Stowage Boxes, Racks and Straps

22 ACCESSORIES GROUP

- 2201 Canvas Items, Bows and Covers
- 2208.1 Speedometer, Adapters and Drive Shaft
- 2208.2 Tachometer, Adapters and Drive Shaft
- 2209.2 Compass and Parts

24 FIRE EXTINGUISHER SYSTEM GROUP

- 2401 Fire Extinguisher System
- 2402 Portable Fire Extinguisher

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. |
| 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 |
| 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. | 1100 78th Ave., Oakland, Calif. |
| 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, Ill. |
| 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. |
| WH | WEATHERHEAD CO. | 300 E. 131st St., Cleveland, Ohio |
| WIL | WILCOX RICH (DIVISION OF EATON MANUFACTURING CO.) | 9771 French Rd., Detroit, Mich. |
| 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 332271

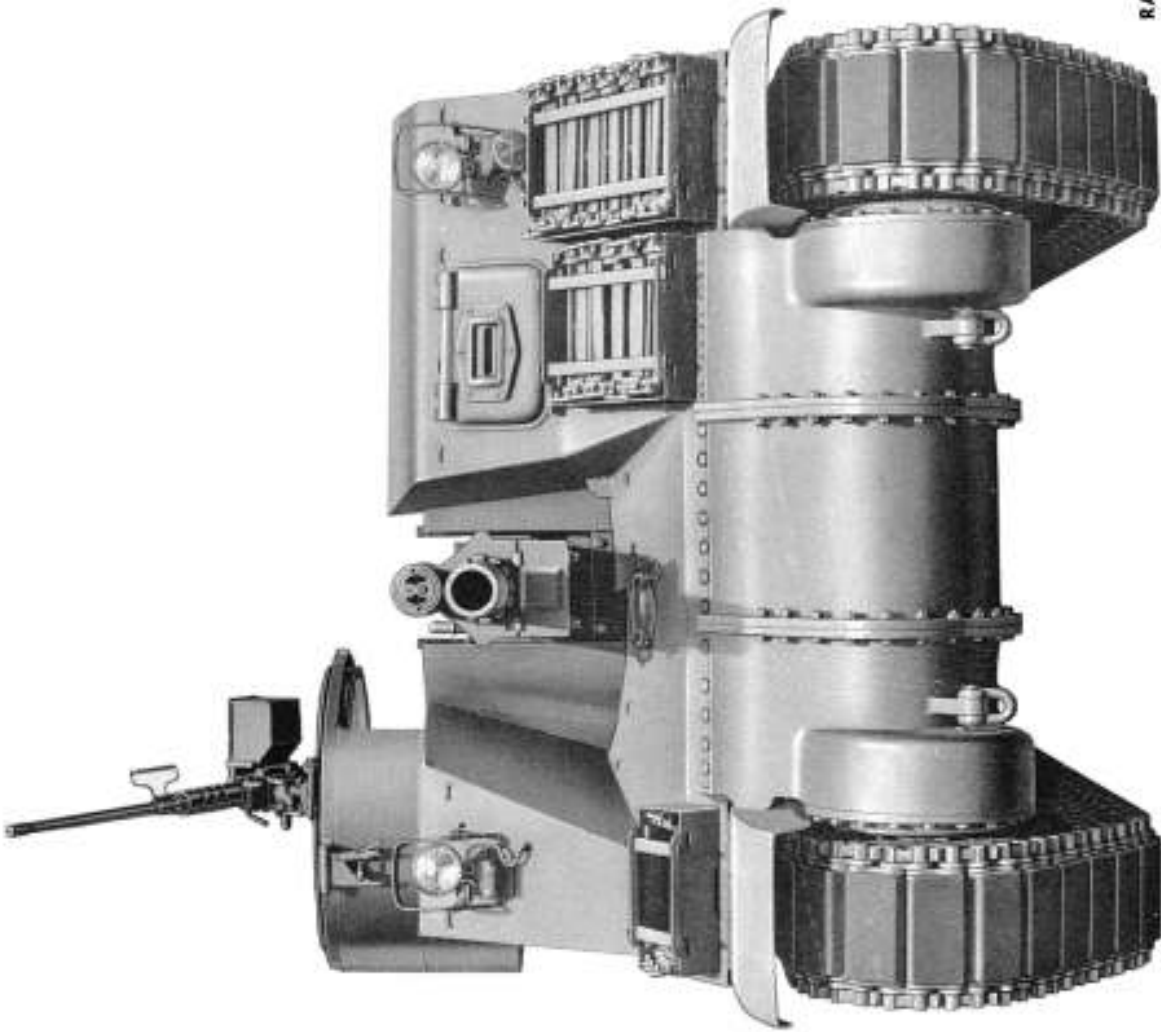
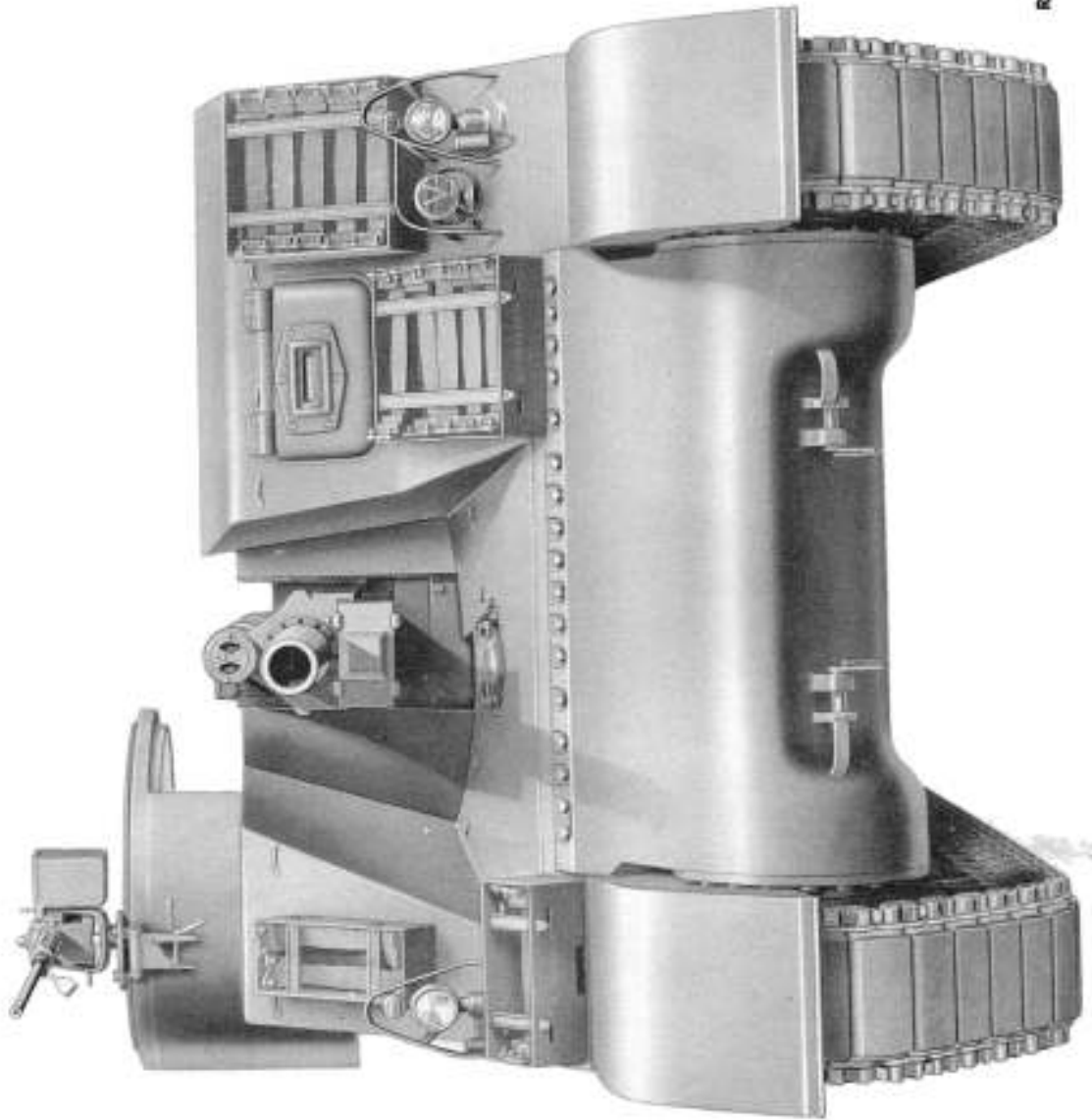


FIGURE A — CARRIAGE, MOTOR, 105mm. HOWITZER M7 — FRONT VIEW (EARLY TYPE)



RA PD 332267

FIGURE B — CARRIAGE, MOTOR, 105mm. HOWITZER M7 — FRONT VIEW (LATE TYPE)