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**WAR DEPARTMENT
SUPPLY CATALOG**

ORD 9 SNL G-162

Group G

LIST OF ALL SERVICE PARTS

FOR

**TRACTOR, HIGH-SPEED, 13-TON, M5 AND
M5A1**

Supersession

**Ref: TM 9-1786A
TM 9-1786B**

MAY 1947

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CONTENTS

	Page
GENERAL INFORMATION	1
SPECIAL INFORMATION	1
HOW TO FIND PARTS	2
STANDARDIZED GOVERNMENT GROUPING	2
MANUFACTURERS' SYMBOLS	4
LIST OF ABBREVIATIONS	5
SUGGESTIONS	6
LIST OF ALL SERVICE PARTS BY GOVERNMENT GROUPS:	
GROUP 01—ENGINE	40
GROUP 02—CLUTCH	83
GROUP 03—FUEL SYSTEM	122
GROUP 04—EXHAUST	144
GROUP 05—COOLING SYSTEM	145
GROUP 06—ELECTRICAL SYSTEM	225
GROUP 07—TRANSMISSION	291
GROUP 09—PROPELLER SHAFT	307
GROUP 10—DIFFERENTIAL AND FINAL DRIVE	308
GROUP 12—TRAILER BRAKES	352
GROUP 13—TRACK AND SUSPENSION	383
GROUP 14—CONTROLS	397
GROUP 15—FRAME AND BRACKETS	441
GROUP 17—FENDERS AND MUD GUARDS	451
GROUP 18—BODY	488
GROUP 20—WINCH	517
GROUP 21—BUMPERS AND GUARDS	542
GROUP 22—MISCELLANEOUS BODY AND ACCESSORIES	557
GROUP 23—GENERAL USE STANDARDIZED PARTS	568
GROUP 28—ARMAMENT AND GUN MOUNT	569
NOTES	571
INDEXES:	
ILLUSTRATION INDEX	572
ALPHABETICAL INDEX	577
STOCK NUMBER INDEX	610
ORDNANCE AND MANUFACTURERS' PART NUMBER INDEX	621

RESTRICTED

This pamphlet is correct to 16 December 1946

1. GENERAL INFORMATION. *a.* This is a list of all items of service for Tractors, High-Speed, 13-Ton, Models M5 and M5A1, 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 those parts should be forwarded through normal supply channels with justification therefor.

b. 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 are listed alphabetically within the group with the number of each particular part required for each unit assembly.

c. The Note Symbol column contains reference symbols. These symbols may be letters such as *a* or *c*, or characters such as % or #, which are explained under the heading "NOTES"; or SNL designations such as *H-1* or *J-1*.

d. For full information relative to Standard Nomenclature Lists, the procedure followed and the principles employed in their compilation, together with the purposes and uses thereof, see ORD 1, Introduction; ODR 2 Index; and Ordnance Provision System Regulations OPSR.

2. SPECIAL INFORMATION. *a. Major item designation.* The major item covered by this catalog is designated as a special purpose vehicle, as defined in paragraph 3, AR 850-15.

b. Components of kits, sets, and assemblies. Whenever any doubt might exist as to what items are included as components of kits, sets, or assemblies, an explanatory note or complete listing of such components is shown.

c. Attaching parts. Attaching parts, such as bolts, nuts, rivets, screws, washers, etc., are indented immediately under the item which they attach. Whenever two similar items, having the same attaching parts, such as right and left fenders, are listed, they are placed one immediately following the other and the attaching parts for both are covered by a single listing under the second part. The quantities shown for the attaching parts are those necessary to attach both items.

d. Bulk material. A complete resume of bulk materials will be found in Group 23.

e. Publications pertaining to this vehicle:

TM 9-786, Operator's Manual.

TB 9-786-1, Additional operating and Maintenance Instructions for 13-Ton High-Speed Tractor, M5A1.

TM 9-1786A, Maintenance Manual—Engine, Engine Accessories, Clutch Group and Propeller Shaft.

TM 9-1786B, Maintenance Manual—Power Train, Track Suspension and Equipment.

f. Serial numbers. The serial numbers used in this catalog are:

Complete Vehicle:

Model M5	PM-503 and up	} { Stamped on front end of left frame side channel. Also on name plate on front of cowl.
Model M5A1	PM-5793 and up	
Engine	R6572-1000 and up	Stamped on name plate located on left front end of crankcase.
Clutch	1000 and up	Stamped on outside diameter of back plate.
Clutch Reduction	CR-101 and up	Stamped on right side of clutch housing on outside diameter of boss for clutch shifting shaft.
Transmission	T-101 and up	Stamped on transmission case immediately below the rear of driver's seat.
Differential and Final Drive	F-101 and up	Stamped on front end of both drive gear compartments, above oil level plugs.

RESTRICTED

g. Definition of locational terms. The terms “Right” and “Left” and “Front” and “Rear” used in this catalog are determined by the driver’s position in the vehicle *except* in the listing of Engine and Engine Accessories Parts. The engine in this tractor is installed with the fan end to the rear of the vehicle, but in the listing of engine parts, the parts are described in the conventional manner. The term “Front” refers to the fan end of the engine and the term “Rear” refers to the flywheel end. The term “Right” refers to the carburetor side of the engine and the term “Left” refers to the distributor side.

3. 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:

a. Nomenclature. If the nomenclature (basic name) only is known, and the subgroup is not, 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 this subgroup, the complete listing of the part can readily be found.

b. Part numbers. If any one of the part numbers—ordnance number, stock number, or manufacturer’s number—is known, refer to the appropriate numerical index in the back of the book. This index will give the subgroup number from which the part can be found by following the procedure given in the previous paragraph.

c. Illustrations. If the use, or function, or location of the part is known, refer to the illustration index to determine in which figure or figures the part is likely to appear; then turn to these figures until a picture of the part is found. The arrow pointing to the part will lead out to a listing of the name, part number and subgroup number, which will permit locating the complete listing of the part.

d. Indexes. Indexes are listed in the back of the book in the following sequence: Illustrations, Alphabetical, Numerical (Ordnance and Manufacturers’ Part Numbers, and Stock Numbers).

e. Stock number. The prefix letter and number of the stock number (i. e. G104-XXXXXXX, G103-XXXXXXX or G-167XXXXXXX) signifies that the particular part of 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 for different vehicles will include the same stock number for this same part.

4. STANDARDIZED GOVERNMENT GROUPING. The parts listed in this catalog are divided into groups and subgroups in accordance with the Standardized Government Grouping. This division into groups facilitates the location and identification of each part.

01—ENGINE GROUP

- 0100 Engine Assembly and Mountings
- 0101 Crankcase and Cylinder Heads
- 0102 Crankshaft and Bearings
- 0103 Flywheel, Housing and Ring Gear
- 0104 Pistons, Rings, Pins, Connecting Rods and Bearings
- 0105.1 Valves, Guides and Springs
- 0105.2 Push Rods, Rocker Arms, Shafts and Tappets
- 0105.3 Camshaft and Bushings
- 0105.5 Timing Gears and Cover
- 0106.1 Oil Pump and Scavenger Pump
- 0106.2 Oil Filters
- 0106.3 Oil Cooler
- 0106.5 Crankcase Air Cleaner Breather
- 0106.6 Oil Pan, Filler, Level Rod, Drain Valve, and Oil Distribution System
- 0108 Intake and Exhaust Manifolds

02—CLUTCH GROUP

- 0200 Clutch Assembly, Housing and Parts
- 0201 Clutch Disc, Driven Plate, Pressure Plate, Springs and Pilot Bearing
- 0201.1 Clutch Reduction Unit
- 0202 Clutch Release Yoke, Fork, Bearing and Lever
- 0207 Clutch Brake (Includes Clutch Brake, Clutch Brake Application Valve and Levers, Clutch Brake Power Cylinder and Clutch Brake Lines and Fittings)

03—FUEL SYSTEM GROUP

- 0301 Carburetors
- 0301.1 Carburetor Shut-Off Solenoid
- 0302 Fuel Pump
- 0304 Air Cleaner, Parts, Tubes, Hoses, Connections and Clamps

03—FUEL SYSTEM GROUP—Continued.

- 0306 Fuel Tanks and Lines, Fittings, Gages and Flame Arrester
- 0308 Governor
- 0309 Fuel Filters, Fuel Tank Selector Valve, Lines and Fittings
- 0311 Primer System

04—EXHAUST GROUP

- 0401 Muffler

05—COOLING SYSTEM GROUP

- 0501 Radiator, Filler Bowl, Mountings, Drain Valve and Overflow Tank
- 0502 Radiator Shutters
- 0503 Fittings, Lines, Hose, Tubes, Clamps and Thermostats
- 0504 Water Pump and Fan Clutch
(Note: Fan Clutch covered by this Grouping is an integral part of the Water Pump)
- 0505 Fan, Fan Belts, Pulleys, Controls and Parts

06—ELECTRICAL SYSTEM GROUP

- 0601 Generator and Mountings
- 0602 Generator Regulator
- 0603 Starter, Switch and Controls
- 0604.1 Distributor
- 0605 Ignition Coil, Wiring and Spark Plugs
- 0607 Instruments, Panel, Panel Wiring, Lights and Lamps, Gages and Panel Mountings
- 0608 Switches, Circuit Breakers and Junction Blocks
- 0609.1 Head, Tail and Marker Lights, Lamps and Lamp-Units
- 0609.2 Auxiliary Lights
- 0611 Horn, Siren and Switch
- 0612 Battery, Box, Support, Starting Cables and Connections
- 0613.1 Body and Chassis Wiring Harnesses and Systems
- 0617 Trailer Coupling Socket

07—TRANSMISSION GROUP

- 0700 Transmission Assembly
- 0701 Transmission Case, Cover and Gaskets
- 0702.1 Transmission Input Shaft and Bearings
- 0702.2 Transmission Output Shaft, Bearings, gears and Spacers

- 0702.3 Transmission Reverse Idler Shaft, Countershaft, Bearings, Gears and Spacers
- 0702.4 Transmission Winch Drive Shaft, Bearings, Gears and Spacers
- 0704 Transmission Gear Shift Cover or Housing, Gear Shift Lever, Rails, Forks and Parts
- 0706.1 Transmission Oil Pump
- 0706.2 Transmission Oil Filter
- 0706.3 Transmission Oil Cooler Radiator and Shutters
- 0706.4 Transmission Oil Pressure Relief Valve
- 0706.6 Transmission Oil Lines and Connections

09—PROPELLER SHAFT GROUP

- 0900 Propeller Shaft and Universal Joint

10—DIFFERENTIAL AND FINAL DRIVE GROUP

- 1001 Differential Housing, Covers, Gaskets and Parts
- 1002 Differential Case, Gears, Pinions, Bearings and Parts
- 1004 Differential Steering Brakes
- 1005.2 Differential Oil Screen
- 1008.2 Final Drive Gears, Pinions, Shafts, Bearings and Parts

12—TRAILER BRAKES GROUP

(COMBINATION AIR AND ELECTRIC BRAKE CONTROLS)

- 1208 Air System—Lines, Fittings, Connections and Parts
- 1209 Air System—Compressor and Parts
- 1209.1 Air Tanks, Air Separator and Parts
- 1209.2 Air Lines and Fittings (Compressor, Air Tanks and Air Separator)
- 1211 Trailer Air and Electric Brake Controls and Connections (Includes Air and Electric Brake Control Valve, Electric Brake Controller Power Cylinder and Electric Brake Controller)

13—TRACK AND SUSPENSION GROUP (BOGIE)

- 1301 Bogie, Frame and Parts
- 1302 Track Support Idlers and Brackets
- 1303 Trailing Idlers
- 1304 Drive Sprockets
- 1305 Track and Parts

14—CONTROLS GROUP

- 1401 Steering Mechanism and Controls
- 1402 Accelerator, Throttle and Choke Controls
- 1403 Clutch Controls (includes Linkage—Pedals to Clutch Selector, Clutch Selector Unit, Clutch Shifting Valve, Linkage—Clutch Power Cylinders to Clutch)

15—FRAME AND BRACKETS GROUP

- 1501 Frame
- 1503 Pintle and Towing Hooks

17—FENDERS AND MUD GUARDS GROUP

- 1701 Fenders and Mud Guards

18—BODY GROUP

- 1803.1 Doors, Latches, Seals and Parts
- 1804 Braces, Brackets, Members, Supports, w/Related Body Parts, Cowl, Ventilator, Glass and Windshield
- 1805 Compartments, Floor Plates, Bottom Plates, Enclosure Sheets, Supports and Parts
- 1806 Seats, Cushions, Adjusters, Supports, Crash Pads and Parts

- 1808 Stowage Racks, Brackets, Boxes, Supports and Parts

20—WINCH GROUP

- 2001 Winch Assembly, Parts and Controls

21—BUMPERS AND GUARDS GROUP

- 2101 Bumpers, Braces and Guards

22—MISCELLANEOUS BODY AND ACCESSORIES GROUP

- 2201 Canvas Items, Canopy Top Frame, Curtains, Canopy Top, etc.
- 2202 Mirrors, Reflectors, Windshield Wipers and Parts
- 2208.1 Speedometer Assembly, Cables, Adapter and Parts
- 2208.2 Tachometer Assembly, Cable and Parts

23—GENERAL USE STANDARDIZED PARTS GROUP

- 2304.2 Bulk Material

28—ARMAMENT AND GUN MOUNT

- 2802 Gun Mount Attachment

5. MANUFACTURERS' SYMBOLS.

SYMBOL	MANUFACTURER
AAD	American Automatic Devices Co.
AC	A-C Spark Plug Division (General Motors Corp.)
ACC	American Cable Co., Inc. (Div. American Chain & Cable)
AD	Alemite Div. (Stewart-Warner Corp.)
ARC	Arens Controls
AS	Allis-Chalmers Mfg. Co.
AVM	Atwood Vacuum Mfg. Co.
BA	Bassik Co. (The)
BI	Bishop and Babcock Mfg. Co.
BO	American Bosch Corporation
CH	Cutler-Hammer, Inc.
CM	Chicago Rawhide Mfg. Co. (The)
CMF	Commerical Filters Corp.
CO	Continental Motors Corp.
CP	Champion Spark Plug Co.
DL	Delta Electric Co.
DN	Donaldson Co., Inc.
DR	Delco-Remy Div. (General Motors) Corp.
EAT	Eaton Mfg. Co. (The)
EB	Eberhard Mfg. Co.

SYMBOL	MANUFACTURER
ECM	Eclipse Machine Division (Bendix Aviation Corporation)
ESS	Electric Service Supplies Co.
GL	Guide Lamp Div. (General Motor Corp.)
GPS	Garlock Packing Co. (The)
GW	Gar Wood Industries, Inc.
HBB	Hobbs Corp., J. W.
HC	Cole-Hersee Co.
HRM	Hardy Mfg. Co.
Hy	Hyatt Bearings Div. (General Motors Corp.)
IB	Imperial Brass Mfg. Co. (The)
IHC	International Harvester Co.
LEC	Lincoln-Engineering Co.
LI	Lisle Corp.
LO	Wagner Electric Co.
MAE	Monroe Auto Equipment Co.
MAS	Master Engineering Service
MD	Midland Specialties Co.
MJ	Mechanics Universal Joint Div. (Borg-Warner Corp.)
MO	Modine Mfg. Co.

5. MANUFACTURERS' SYMBOLS—Continued.

Symbol	Manufacturer	Symbol	Manufacturer
MRC	Marlin-Rockwell Corp.	SV	Schrader's Son, A. (Div. of Scovill Mfg. Co., Inc.)
MRM	Manhattan Rubber Mfg. Co.	SW	Stewart-Warner Corp.
MZ	"Mazda"—General Electric Co.	SZ	Schwitzer Cummins Co.
NC	Nice Ball Bearing Co.	TD	Timken-Detroit Axle Co.
ND	New Departure Mfg. Co.	TEC	Triangle Engineering Co.
NM	Nelson Muffler Corp.	TIM	Timken Roller Bearing Co. (The)
OH	Ohmite Mfg. Co.	TNP	Tinnerman Products, Inc. (Speed Nut Div.)
PG	Pierce Governor Co.	TR	Torrington Co. (The)
PU	Purolator Products, Inc.	TRI	Trico Products Co.
QCM	Queen City Manufacturing Company	TS	Troy Sunshade Co. (The)
QMC	Quartermaster Department	UC	United Carr Fastener Corp.
RM	Rochester Mfg. Co.	VG	Victor Mfg. & Gasket Co.
RSC	Reynolds Spring Co.	WEB	Warner Electric Brake Mfg. Co.
RSL	Russell Mfg. Co.	WH	Weatherhead Co. (The)
SC	Signal Corps	WKR	Wilson, K. R.
SEP	Service Products Corp.	WTK	Wittek Mfg. Co.
SK	Shakeproof Lock Washer Co.	Z	Zenith Carburetor Div. (Bendix Aviation Corp.)
SN	Snap-On Tools, Inc.		
SPW	Spark Withington Co.		

6. LIST OF ABBREVIATIONS. The following is a list of the standard abbreviations appearing in this catalog.

alloy-S. alloy-steel	f /. for
amps. amperes	fil-hd. fillister head
approx. approximately	fl-ck-hd. flat countersunk head
bind-hd. binding head	fl-fil-hd. flat fillister head
b. hd. button head	fl-hd. flat head
br. brass	fl-pt. flat point
B. W. ga. Birmingham Wire gage	flex. flexible
bz. bronze	ft. foot (or feet)
Cap. capacity	ga. gage
cd-pltd. cadmium-plated	gh. as required
cp. candle power	hd. head
chr-ni-S. chrome nickel steel	hdls. headless
C. I. cast iron	hex. hexagon
ck. countersunk	hex-hd. hexagonal-head
ck-hd. countersunk head	hv. heavy
contd. continued	I. D. inside diameter
cop. copper	in. in inch or inches
cop-pltd. copper-plated	lbs. pounds
c-pin. cotter pin	lgh. length
corr-res-S. corrosion-resistant-steel (Stainless)	lgt. light
C.R. corrosion-resisting	L. H. left hand
cup-pt. cup point	lkg. locking
cyls. cylinders	Mfd. microfarad
dble. double	M. I. malleable iron
diam. diameter	N. C. national coarse
dld. drilled	N. F. national fine
dld. f/c-pin. drilled for cotter pin	ni. nickel
dld. f/lkg-wire. drilled for locking wire	ni-S. nickel-steel

6. LIST OF ABBREVIATIONS—Continued.

No.....	number	semi-fil-hd.....	semi-fillister head
NPT.....	national pipe thread	sh-met.....	sheet metal
N. S.....	national form special	spec.....	specification
O. D.....	outside diameter	sq-hd.....	square head
oval-fil-hd.....	oval fillister head	std.....	standard
oz.....	ounce	stght.....	straight
ph-bz.....	phosphor-bronze	T.....	teeth
pltd.....	plated	thd.....	thread
rd. end.....	round end	unfin.....	unfinished
rd-hd.....	round head	U. S. F.....	U. S. fine
rd-pt.....	round point	U. S. std.....	U. S. standard
reg.....	regular	w /.....	with
R. H.....	right hand	w /bz.....	with bronze
ru.....	rubber	w /hex.....	with hexagon
S.....	steel	w/o.....	without
SAE.....	Society of Automotive Engineers	zn-pltd.....	zinc plated
S-fin.....	semi-finished		

7. SUGGESTIONS. Notice of discrepancies or suggested changes should be directed to Office, Chief of Ordnance, Field Service, Maintenance Division, Military Publications Branch, ORDFM-Pub, Washington 25, D. C.

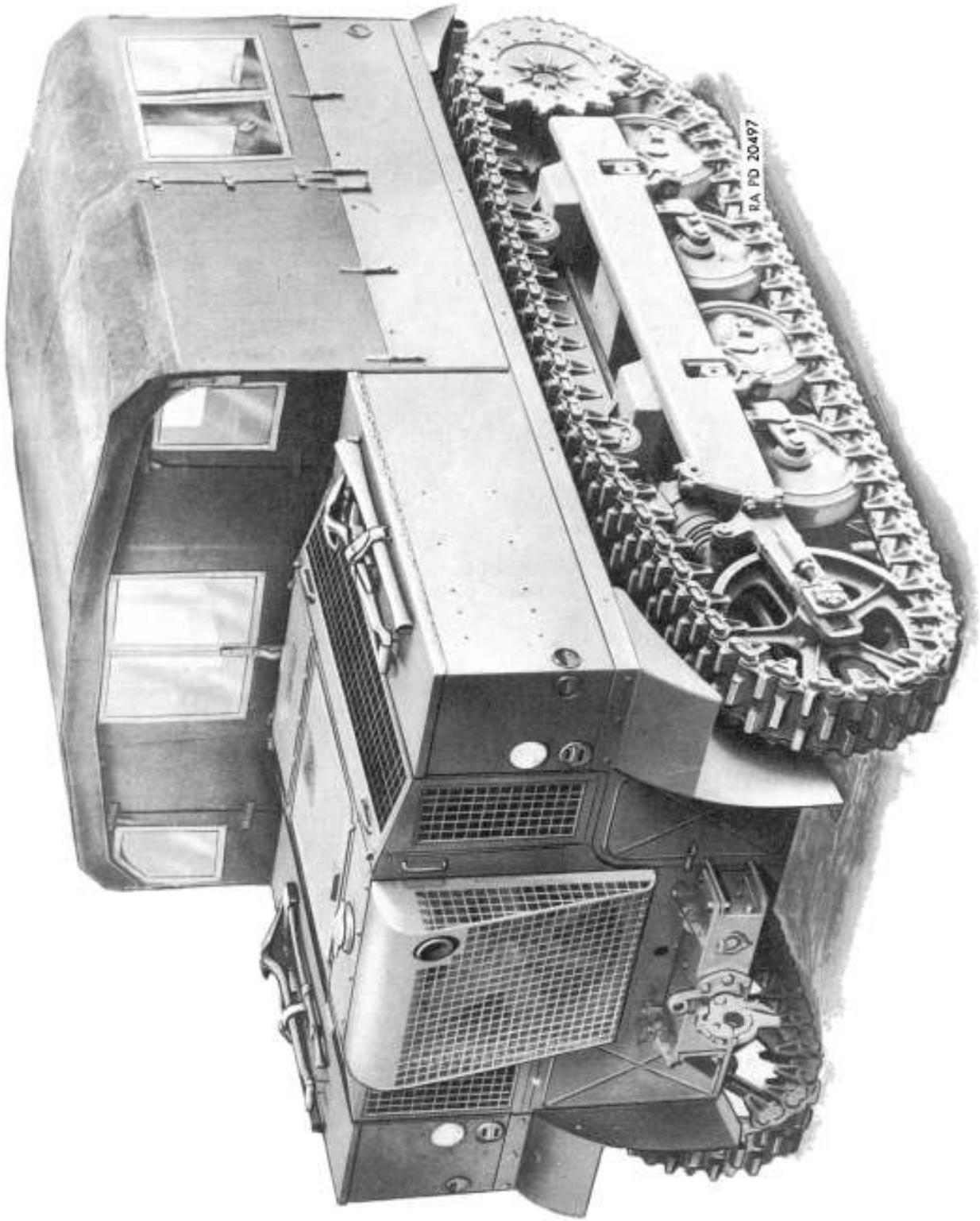


Figure A. Tractor, high-speed, 13-ton, M5, with canopy top and curtains—right rear view.