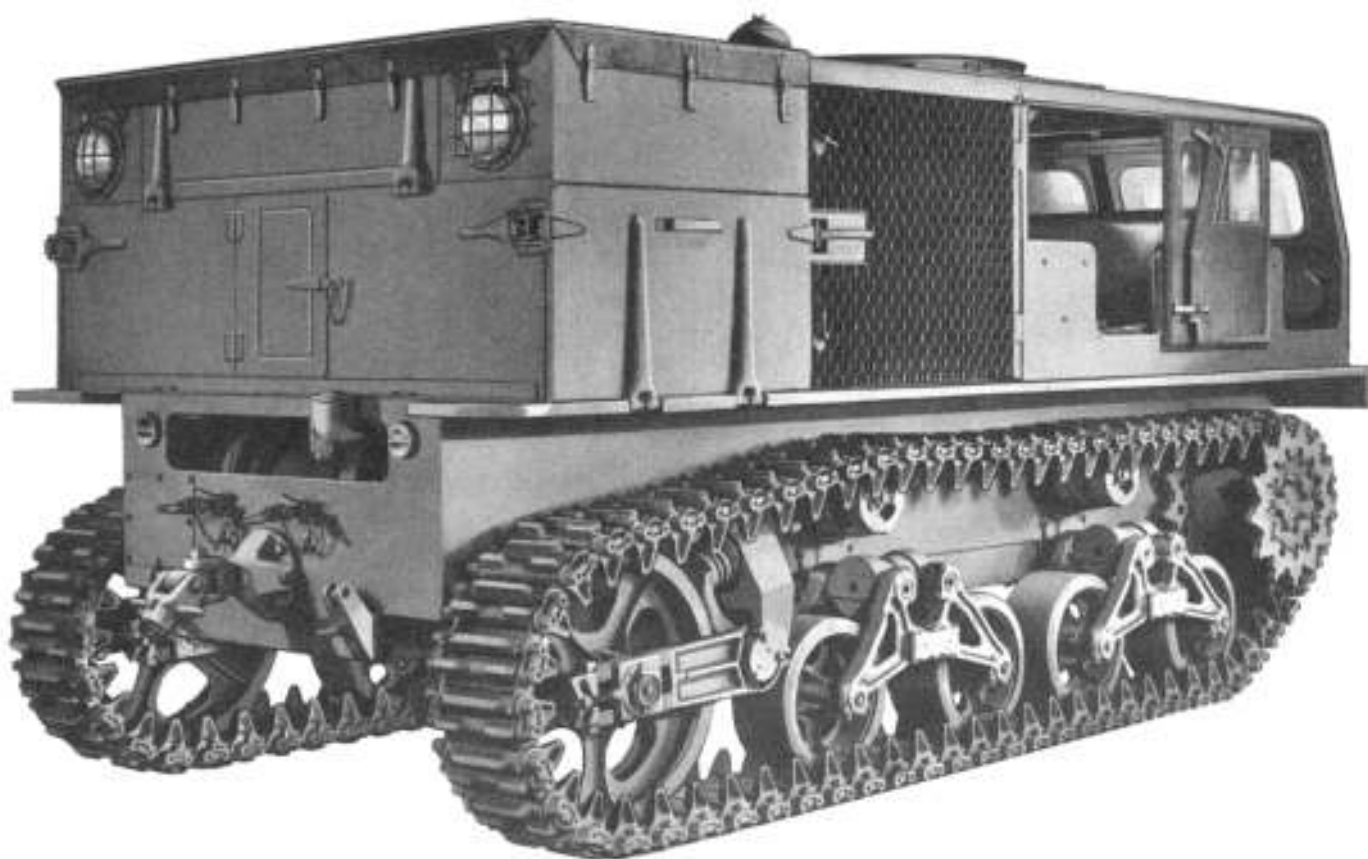


SNL G-150



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INTRODUCTION

1. GENERAL. *a.* This is a list of items of the 18-ton high-speed tractor M4, arranged according to standard government grouping.

Note. Many of the parts listed herein are not stocked for issue. See ORD 7 and ORD 8 sections of this catalog for listings of those parts stocked and authorized for issue to the various levels of maintenance. When parts not listed in the ORD 8 are needed, separate requisition for these parts should be forwarded through normal supply channels with justification therefor.

b. For prices of items contained herein, see the appropriate catalog of the ORD 5-3 series.

c. This list of all service parts is to be used for identification and storage purposes. Every individual part is not necessarily stored by itself; many parts are stored as authorized assemblies. Such assemblies are indicated herein. The components of such assemblies are listed alphabetically within the group, with the total quantity of each part required for that particular application.

d. An explanation of reference symbols used throughout this catalog is included under NOTES.

e. Additional application of items listed in this catalog, if any, are contained in the ORD 5-5 series.

f. Classification codes for Federal stock numbers listed herein will be found in ORD 5-2.

g. For full information relative to the Ordnance section of the Department of the Army Supply Catalog, including the purposes and uses thereof, the procedure followed, and the principles employed in its compilation, see ORD 1.

2. MAJOR ITEM DESIGNATION. The major item covered in this catalog is designated as a special purpose vehicle as defined in AR 700-105.

3. PUBLICATIONS PERTAINING TO THIS VEHICLE. The following technical manuals pertain to this vehicle and components thereof: TM 9-1785A and TM 9-1785B.

4. INTERCHANGEABILITY OF COMPONENTS. Many parts on this vehicle are interchangeable with those used on Tractor, High-Speed, 38-Ton, M6, as covered by SNL G-184. Such units as the clutch, torque converter, air compressor, and most of the engine accessories are 100 percent interchangeable. The engines are not interchangeable as complete units. However, approximately 95 percent of the engine component parts will fit either tractor.

5. SERIAL NUMBER LOCATIONS. Serial numbers for this vehicle are located as follows:

<i>Name of unit</i>	<i>Location</i>
Vehicle.....	Name plate in cab on wiring guard. Also stamped on rear of hull at the upper right hand corner.
Engine.....	Name plate on cylinder block, exhaust manifold side.
Torque converter.....	Name plate on housing cover, to left of breather.
Carburetor.....	Plate on bowl cover.
Storage battery.....	Molded into side of case.
Ignition distributor.....	Name plate on housing, above grease cup.
Ignition coil.....	Stamped on bottom of case.
Ignition switch.....	Stamped on mounting plate.
Starter.....	Name plate on housing.
Starter switch.....	Name plate on case.
Generator.....	Name plate on pulley-end of housing.
Generator regulator.....	Name plate on cover.
Instruments.....	Printed on dial.

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listed. As the part names are arranged in alphabetical order within this subgroup, the complete listing of the part can readily be found.

b. If any one of the numbers—ordnance number, stock number, or manufacturer's number—is known, refer to the appropriate numerical index in the back of the catalog. This index will give the subgroup number in which the part will be found.

c. If the shape, use, function, or location of the part is known, refer to illustrations in which the part is likely to appear 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.

13. STANDARD 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 rather than location. This arrangement facilitates identification and selection of parts. Refer to paragraph 12, "HOW TO FIND PARTS."

01—ENGINE

- 0100 Engine Assembly.
- 0101 Crankcase, Cylinders, Cylinder Sleeve, and Cylinder Head.
- 0102 Crankshaft, Bearings, and Fan Drive Pulley.
- 0103 Flywheel, Ring Gear, and Housing.
- 0104 Pistons, Rings, Pins, Connecting Rods, and Bearings.
- 0105. 1 Valves, Springs, Guides, and Seats.
- 0105. 2 Push Rods, Rocker Arms, and Compartment Covers.
- 0105. 3 Camshaft and Bearings.
- 0105. 5 Timing Gears and Covers.
- 0106. 1 Oil Pump Assembly.
- 0106. 2 Oil Filter.
- 0106. 3 Oil Cooler Assembly.
- 0106. 4 Oil System Pressure Regulator.
- 0106. 5 Breather Cap.
- 0106. 6 Oil Pan, Lines, Elbows, Connectors, and Level Gages.
- 0108. 1 Intake and Exhaust Manifolds.
- 0108. 2 Engine Shut-Off Valve.

02—CLUTCH

- 0200 Clutch Assembly, Housing, and Support.
- 0201 Clutch Disk, Driven Plate, Pressure Plate, Springs, and Pilot Bearing.
- 0202 Clutch Release Mechanism, Yokes, and Bearings.
- 0206 Clutch Coupling.

03—FUEL SYSTEM

- 0301 Carburetor.
- 0302 Fuel Pump.
- 0304. 1 Engine Air Cleaner.
- 0304. 2 Engine Air Precleaner.
- 3004. 3 Engine Air Cleaner Pipe, Hose, and Clamp.
- 0306 Tank, Lines, Fittings, and Shut-Off Valve.
- 0308 Engine Speed Governor.
- 0309 Fuel Filter.
- 0311. 1 Engine Priming System Lines and Fittings.
- 0311. 3 Engine Priming System Pump.

04—EXHAUST SYSTEM

- 0401 Muffler, Pipes, Shields, and Insulation.

05—COOLING SYSTEM

- 0501 Radiators, Shell, and Expansion Tank.
- 0502 Radiator Grille, Frame, and Fan Shroud.
- 0503. 1 Lines, Fittings, Hoses, Pipes, Clamps, and Thermostats.
- 0504 Engine Water Pump.
- 0505. 1 Fan, Fan Belt, and Fan Drive.
- 0505. 2 Fan Belt Tightener.
- 0505. 3 Fan Gear-Drive.
- 0505. 4 Fan Gear-Drive Belt Tightener.

06—ELECTRICAL SYSTEM

- 0601 Generator.
- 0602 Generator Regulator.
- 0603. 1 Starter.
- 0603. 2 Starter Switch.
- 0603. 3 Ignition Switch.
- 0604. 1 Distributor.
- 0605 Ignition Coil, Wiring, and Spark Plugs.
- 0607. 1 Instrument Panel.
- 0607. 3 Instrument Panel Low Air Pressure Warning Light Switch.
- 0608. 1 Switches.
- 0608. 2 Windshield Wiper Switch.
- 0608. 3 Trailer Electric Coupling Box.
- 0609. 1 Head, Tail, and Marker Lights, Lamps, and Lamp-Units.
- 0609. 3 Rear Flood Light.
- 0611. 1 Siren Assembly.
- 0611. 2 Siren Motor Assembly.
- 0612 Battery, Clamps, and Cables.
- 0613. 1 Hull and Chassis Wiring Harnesses.
- 0613. 3 Power Plant Wiring.
- 0615 Radio Suppression.
- 0617 Trailer Couplings (Electric).

07—TRANSMISSION

- 0700 Transmission Assembly.
- 0701 Transmission Case, Covers, and Gaskets.
- 0702. 1 Input Shaft, Gear, Pinion, Bearings, and Spacer.
- 0702. 3 Output Shaft, Gears, and Bearings.
- 0702. 5 Reverse Idler Shaft, Gear, and Bearing.
- 0704 Gear Shift Lever, Forks, and Shafts.
- 0706. 1 Transmission Oil Pump.

07—TRANSMISSION—Continued

- 0706. 5 Transmission Oil Cooler.
- 0706. 6 Transmission Oil Pressure Relief Valve.
- 0706. 7 Transmission Vent.
- 0706. 9 Transmission Oil Lines and Sending Units.
- 0717. 1 Torque Converter Assembly.
- 0717. 2 Torque Converter Oil Circulating Pump.
- 0717. 3 Torque Converter Oil Pressure Relief Valve.
- 0717. 4 Torque Converter Oil Filters.
- 0717. 5 Torque Converter Oil Cooler, Reserve Tank, and Lines.

09—PROPELLER SHAFT

- 0900 Universal Joint Assembly.

10—DIFFERENTIAL AND FINAL DRIVES

- 1001 Differential Housing, Covers, and Gaskets.
- 1002 Differential Gears, Pinions, and Bearings.
- 1004 Differential Steering Brakes.
- 1005. 6 Differential Oil Sump and Level Gage.
- 1008. 1 Final Drive Assembly.
- 1008. 2 Final Drive Gears, Pinions, Shafts, Bearings, Covers, and Gaskets.

12—TRAILER BRAKES

- 1207. 1 Electrical Brake Parts.
- 1207. 2 Load Control Assembly.
- 1207. 3 Controller Assembly.
- 1208. 1 Air System—Lines and Fittings.
- 1208. 31 Air Brake Check Valve.
- 1208. 32 Air Brake Air Pressure Safety Valve.
- 1208. 33 Air Brake Foot Control Valve.
- 1208. 34 Air Brake Hand Control Valve.
- 1208. 35 Air Pressure Governor Cut-Out Valve Assembly.
- 1209. 1 Air Compressor Assembly.
- 1209. 2 Air Pressure Governor.
- 1209. 3 Air Reservoir and Fittings.
- 1209. 4 Air Compressor Belt Tightener.
- 1209. 5 Air Compressor Air Filter.

13—TRACKS AND SUSPENSION

- 1301 Suspension Assembly and Parts.
- 1302. 1 Track Support Rollers and Brackets (Used on Tractors prior to Serial No. M4-301).
- 1302. 2 Track Support Rollers and Brackets (Used on Tractors starting with Serial No. M4-301).
- 1303 Track Idlers and Brackets.
- 1304 Track Drive Sprockets and Hubs.
- 1305 Tracks and Parts.

14—CONTROLS

- 1401 Steering Brake Controls.
- 1402. 1 Accelerator and Throttle Control.

14—CONTROLS—Continued

- 1402. 2 Choke and Engine Shut-off Valve Controls.
- 1403 Clutch Control.

15—FRAME AND BRACKETS

- 1503 Pintles and Towing Attachments.

17—HOOD, FENDERS, AND SAND SHIELDS

- 1701 Fenders and Sand Shields.
- 1703 Hood Panels.

18—HULL AND CAB

- 1800 Hull.
- 1804. 1 Cab and Ventilator.
- 1804. 2 Windshield.
- 1805 Floor Plates, Covers, and Drain Valves.
- 1806 Seats.
- 1808. 1 Stowage Boxes and Straps.
- 1808. 3 50 cal. Ammunition Box.
- 1808. 5 3 in and 90-mm Ammunition Box.
- 1808. 7 155-mm, 8 in and 240-mm Ammunition Box.
- 1811 Water Supply Tank.

20—WINCH, POWER-TAKE-OFF, AND HOIST

- 2001. 1 Winch, and Drum.
- 2001. 2 Winch Brake and Case.
- 2001. 3 Winch Drive Shaft.
- 2001. 5 Winch Controls.
- 2002. 1 Power-Take-Off Assembly.
- 2002. 3 Power-Take-Off Drive Shaft.
- 2002. 5 Power-Take-Off Controls.
- 2007. 1 Hoist Assembly.
- 2007. 2 Hoist Mounting Parts.
- 2007. 3 Snatch Block.

21—BUMPERS AND GUARDS

- 2101 Bumpers and Guards

22—MISCELLANEOUS ACCESSORIES

- 2201 Covers and Curtains
- 2202. 1 Rear View Mirror.
- 2202. 3 Windshield Wiper.
- 2203. 1 Power Tire Inflation.
- 2207. 1 Winterization Equipment.
- 2207. 2 Air Compressor Alcohol Evaporator.
- 2207. 3 Underchassis Heater Assembly.
- 2207. 5 Underchassis Heater Float Valve Assembly.
- 2208. 1 Speedometer.
- 2208. 2 Tachometer.
- 2210 Vehicular Data Plates

24—FIRE EXTINGUISHER SYSTEM

- 2402 Portable Fire Extinguisher.

14. ABBREVIATIONS. The following abbreviations appear in this catalog:

adj. adjust, adjustable, adjusting
 al. aluminum
 al-alloy aluminum-alloy
 alloy-S. alloy steel
 ammo. ammunition
 amp. ampere

anld. annealed
 asb. asbestos
 assy. assembly
 aux. auxiliary
 bab. babbitt
 bdg-hd. binding head

bev.....	bevel	glvd.....	galvanized
bev-gear.....	bèvel-gear	gr.....	grade
b-hd.....	button-head	hd.....	head
bndl.....	bundle	hdls.....	headless
br.....	brass	hex.....	hexagonal
brg.....	bearing	hex-hd.....	hexagon-head
brgt.....	bright	hex-socket.....	hexagon-socket
brkt.....	bracket	hor.....	horizontal
br-pltd.....	brass-plated	Hq.....	headquarters
bz.....	bronze	ht.....	height
cal.....	caliber	hv.....	heavy
cand-bay-base.....	candelabra bayonet base	I.....	iron
cap.....	capacity	ID.....	inside diameter
carb.....	carbon	in.....	inch(es)
carb-S.....	carbon-steel	incand.....	incandescent
cd-pltd.....	cadmium-plated	incorp.....	incorporated
chr-alloy.....	chrome-alloy	ins.....	insulated
CI.....	cast iron	inter.....	internal
ck.....	countersunk	int-teeth.....	internal teeth (lock washer)
ck-hd.....	countersunk-head	lb.....	pound(s)
cold-fin.....	cold-finish	lea.....	leather
cold-fin-S.....	cold-finished steel	lg.....	long
comb.....	combination	lgh.....	length
comp.....	complete	LH.....	left hand
cone-pt.....	cone-point	it.....	light (weight)
cop.....	copper (cuprum)	lubr.....	lubricator, lubricating or lubrication
cop-asb.....	copper-asbestos	mach.....	machine
cop-pltd.....	copper plated	max.....	maximum
corr-res-S.....	corrosion resistant steel	mech.....	mechanic or mechanism
c-pin.....	cotter pin	med.....	medium
ctd.....	coated	MI.....	malleable iron
ctl.....	castle or castellated	mtd.....	mounted
cu.....	cubic	N.....	National Thread Form
cu-ft.....	cubic foot (feet)	NC.....	National Coarse Thread
cu-in.....	cubic inch	NEF.....	National Extra Fine Thread
cyl.....	cylinder	neg.....	negative
dbl.....	double	NF.....	National Fine Thread
dbl-hd.....	double-head	ni.....	nickel
dbl-hex.....	double-hexagon	ni-alloy-S.....	nickel-alloy-steel
deg.....	degree (angle)	ni-pltd.....	nickel-plated
diam.....	diameter	ni-S.....	nickel-steel
dld-f/c-pin.....	drilled for cotter pin	No.....	number
dld-f/lkg-wire.....	drilled for locking wire	NPS.....	National Straight Pipe Thread
dld-hd.....	drilled head	NPT.....	National Taper Pipe Thread
dl-rd.....	drill rod	NS.....	National Form Thread, Special Pitch
dog-pt.....	dog-point	OD.....	outside diameter
DR.....	double row	oval-ck-hd.....	oval-countersunk-head
ea.....	each	oval-fil-hd.....	oval-fillister-head
exter.....	external	oval-hd.....	oval-head
ext-long.....	extra long	oz.....	ounce(s)
ext-teeth.....	external teeth (lock washer)	p.....	page
fil-hd.....	fillister-head	Part No.....	part number
fin.....	finish or finishing	p-bz.....	phosphor-bronze
flex.....	flexible	pc.....	piece
fl-face.....	flat-face	p-end.....	pin-end
fl-fil-hd.....	flat-fillister-head	phos-ctd.....	phosphate coated
figd.....	flanged	pl.....	plate
fl-hd.....	flat-head	plain-pt.....	plain point
fl-pt.....	flat-point	pl-end.....	plain end
ft.....	foot	pltd.....	plated
ga.....	gage	pl-washer.....	plain-washer
gal.....	gallon	pos.....	positive
GI.....	galvanized iron		

pp.....	pages	SR.....	single row
pr.....	pair	std.....	standard
qt.....	quart	stght.....	straight
qty.....	quantity	stls-S.....	stainless-steel
rad.....	radius or radial	syn-ru.....	synthetic rubber
rd.....	round	T.....	teeth
rd-hd.....	round-head	term.....	terminal
rd-pt.....	round-point	tgls.....	tongueless
recep.....	receptacle	thd.....	thread or threaded
reg.....	regular	thk.....	thick
r-end.....	round-end	thkns.....	thickness
reqd.....	required	TM.....	Technical Manual
retn.....	retaining	tnd.....	tinned
RH.....	right hand	unfin.....	unfinished
ru.....	rubber	univ.....	universal
rvrs.....	reverse, reversible	univ-jt.....	universal-joint
S.....	steel	US std.....	United States standard
s-fin.....	semifinished	v.....	volt
sgle.....	single	van.....	vanadium
sgle-hd.....	single-head	vert.....	vertical
shk.....	shank	vol.....	volume
sltd.....	slotted	vul.....	vulcanize or vulcanized
socket-hd.....	socket-head	w.....	watt
sp.....	special	w/.....	with
spec.....	specification	WI.....	wrought-iron
spnr.....	spanner	w/o.....	without
sq.....	square	wt.....	weight
sq-end.....	square-end	x.....	by (as in 2 x 4)
sq-hd.....	square-head	yd.....	yard
sq-in.....	square inch	zn.....	zinc
sq-nut.....	square-nut	zn-pltd.....	zinc-plated

15. MANUFACTURERS' SYMBOLS. The following is a list of symbols preceding the part numbers for manufacturers appearing in this catalog:

<i>Symbol</i>	<i>Manufacturer</i>	<i>Symbol</i>	<i>Manufacturer</i>
AAD.....	American Automatic Devices Company.	HC.....	Cole-Hersee Company.
AC.....	AC Spark Plug Division (General Motors Corporation).	LM.....	Long Manufacturing Division (Borg-Warner Corporation).
AS.....	Allis-Chalmers Manufacturing Company.	MAR.....	Maremont Automotive Products, Incorporated.
BO.....	American Bosch Corporation.	RBL.....	John A. Roebling's Sons Company.
BSP.....	W F & John Barnes Company.	SEP.....	Service Products Corporation.
BWE.....	Bendix-Westinghouse Automotive Air Brake Company.	SP.....	Dana Corporation.
CC.....	Chrysler Corporation.	SRM.....	Soreng Manufacturing Corporation.
CMF.....	Commercial Filters Corporation.	SW.....	Stewart-Warner Corporation.
DDE.....	Detroit Diesel Engine Division (General Motors Corporation).	SZ.....	Schwitzer-Cummins Company.
DM.....	Douglas Manufacturing Division Kingston Products Corporation).	TC.....	Twin Disc Clutch Company.
DR.....	Delco-Remy Division (General Motors Corporation).	TIM.....	The Timken Roller Bearing Company.
EVP.....	Evans Products Company.	UA.....	United Specialties Company.
FE.....	Federal Electric Company.	VA.....	VARD, Incorporated.
FL.....	Fulton Company.	WEB.....	Warner Electric Brake Manufacturing Company.
FLF.....	The Fulflo Specialties Company, Incorporated.	WH.....	The Weatherhead Company.
GL.....	Guide Lamp Division (General Motors Corporation).	WIL.....	Eaton Manufacturing Company (Saginaw Division & Valve Division).
GM.....	General Motors Corporation.	WKM....	Waukesha Motor Company.
GW.....	Gar Wood Industries, Incorporated.	YA.....	Yale & Towne Manufacturing Company.
		Z.....	Zenith Carburetor Division (Bendix Aviation Corporation).

16. SUGGESTIONS. Notice of discrepancies or suggested changes should be directed to the Chief of Ordnance, Washington 25, D. C. ATTENTION: ORDFM-Pub.

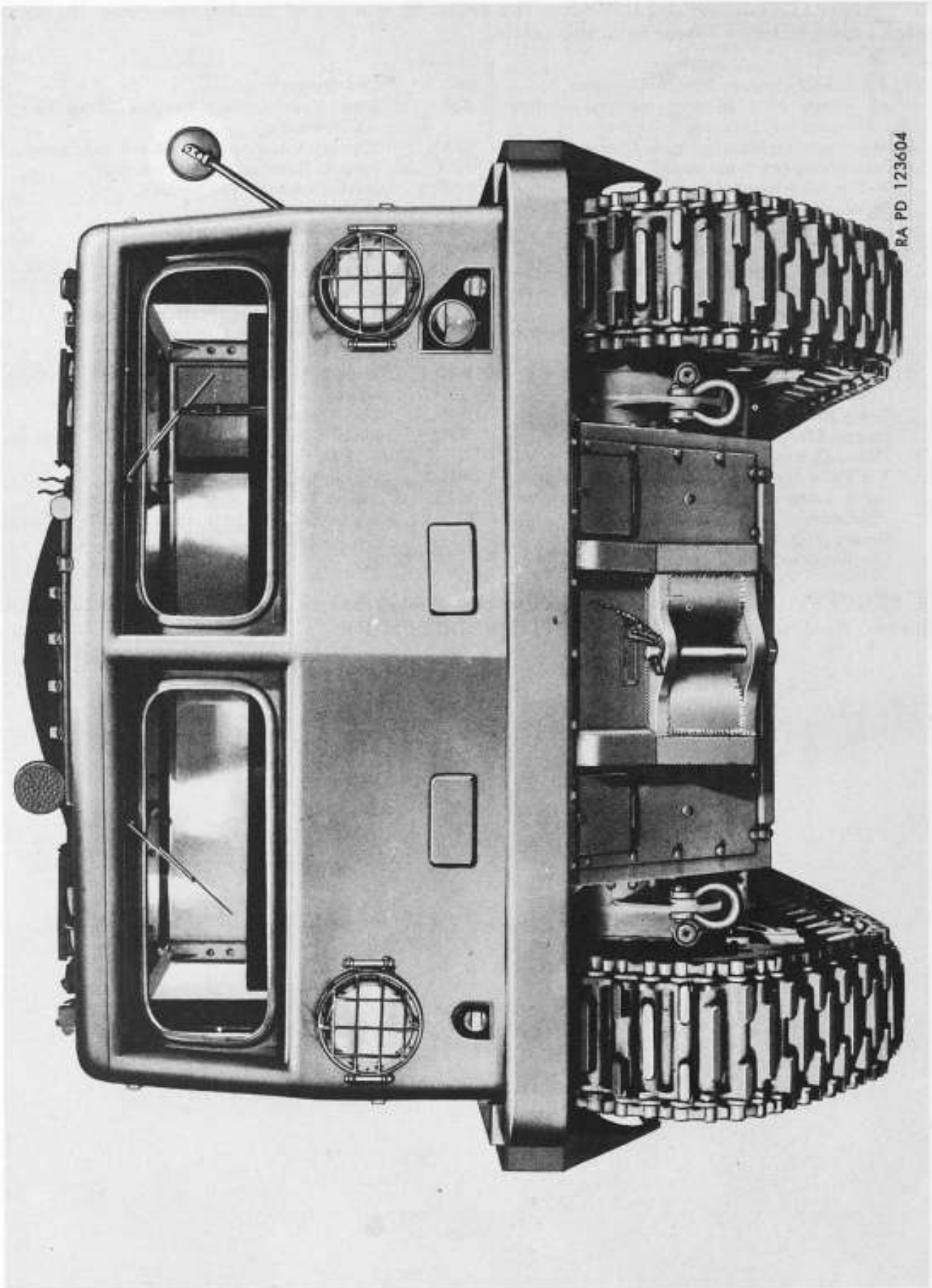


Figure 1. Tractor high speed, 18-ton M4 front view.