# ARMY SERVICE FORCES CATALOG ORD 7-8-9 SNL G-209

# \*RESTRICTED

# ORDNANCE SUPPLY CATALOG

Group G

Technical Reference TM 9-776

(Standard Nomenclature List No. G-209)
(Combined)

Organizational Spare Parts and Equipment

Higher Echelon Spare Parts and Equipment (Addendum)

**Service Parts Catalog** 

for

# VEHICLE, LANDING, TRACKED, MK. IV, LVT (4)

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Distribution: See Inside Front Cover

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# Quick Reference Index

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HIGHER ECHELON SPARE PARTS AND EQUIPMENT (ADDENDUM) (ORD 8)

#### SERVICE PARTS CATALOG (ORD 9)

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- 10 DIFFERENTIAL AND FINAL DRIVE GROUP
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# GENERAL INFORMATION

For full information relative to Standard Nomenclature Lists, the procedure followed, and the principles employed in the compilation, together with the purposes and uses thereof, see the Introduction to the Ordnance Catalog (ORD 1 IOC), the Ordnance Provision System Regulations (OPSR) and the Ordnance Publications for Supply Index (ORD 2 OPSI).

The Standard Nomenclature Lists for major items consist of three main parts: Organizational Spare Parts and Equipment (ORD 7), Higher Echelon Spare Parts and Equipment (Addendum) (ORD 8), and Service Parts Catalog (ORD 9). These three subdivisions may be published separately or may be combined. In the case of this publication they are combined into the one volume.

On the flyleaf of each of the several sections in the book will be found appropriate explanations of the contents of each section and their uses. These are important and must be observed for proper understanding.

#### FEATURES OF THIS PUBLICATION

The following paragraphs explain various important details with which the user should be familiar for proper understanding of the catalog and practices peculiar to this book:

## Standardized Government Grouping:

The parts listed in this catalog are divided into groups and sub-groups in accordance with the Standardized Government Grouping. This division into groups facilitates the location and identification of each part. The Standardized Government Grouping as adapted to this catalog is outlined on pages 8 and 9.

#### Illustrations:

Assembly views, exploded views and cross sectional drawings are used throughout the Service Parts Catalog (ORD 9) of this catalog to aid the user in locating and identifying parts. All illustrations are placed as closely as possible to the groups to which they apply. On each illustration or separate reference legend the noun name, part number and appropriate group number of each part illustrated are given. This promotes the quick identification of each part and accurate reference to the text for complete listing. Each illustration is identified by a figure number and title and in the index section at the back of the catalog will be found an index of all figures and the pages on which they appear.

## Components of Kits, Sets, and Assemblies:

Whenever any doubt may exist as to what items are included as components of kits, sets or assemblies an explanatory statement or complete listing of components is shown. Separately listed items which are also components of a kit or set contain a reference to the kit or set. In the Higher Echelon Spare Parts and Equipment List (Addendum) (ORD 8) the components of kits or sets are cross referenced both ways when the item is procured both separately and in a kit or set.

## Attaching Parts:

Attaching parts such as bolts, nuts and rivets, etc., are indented immediately below the part which they attach where listed in the Service Parts Catalog (ORD 9). This promotes quick selection of the parts to be requisitioned for use in the installation of other parts. Whenever two similar parts, such as right and left cylinder heads, having the same attaching parts are listed, the attaching parts are listed only once, after the last of the similar items and the quantities shown are those needed to attach the several parts. In the Higher Echelon Spare Parts and Equipment (Addendum) (ORD 8), attaching parts are not listed in the same manner as in the Service Parts Catalog. If the item is "special" it is listed in its own alphabetical place in the group. If it is "standard", whether or not it is an attaching part, it will be found only in group 2304.

# Standard Hardware and Bulk Material:

In the Higher Echelon Spare Parts and Equipment (Addendum) (ORD 8), a complete resume of all standard hardware and bulk material will be found listed in group 2304. In the Service Parts Catalog (ORD 9) the standard hardware is listed at each point of use throughout the groups.

# GENERAL INFORMATION (Cont'd)

## Designation of Parts:

The terms RIGHT and LEFT as they pertain to the major units of the particular vehicle covered in this book are listed with reference to the right and left side when looking from the rear of the vehicle toward the front.

#### Indexes:

Indexes are listed in the back of the book in the following sequence: Illustrations, Alphabetical, Numercal (Ordnance Drawing Numbers, Manufacturers' and Vendors' Part Numbers and Official Stock Numbers).

#### Official Stock Number:

The Prefix Letter and Number of the Official Stock Number (i.e. G104-XXXXXXX, G103-XXXXXXX or G167-XXXXXXX) 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 for different vehicles will include the same Official Stock Number for this same part.

When ordering, include the Official Stock Number, all Part numbers and Nomenclature shown for the part.

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.

## Interchangeability of Components:

The engine clutch, transmission and differential used in these vehicles are similar to units used in the following:

Vehicle, Landing, Tracked (Unarmored) Mk. II, LVT (2)	SNL G-167
Vehicle, Landing, Tracked (Armored) Mk. II, LVT (A) (2)	SNL G-168
Vehicle, Landing, Tracked (Armored) Mk. I, LVT (A) (1) (37 mm. Gun)	SNL G-214
Vehicle, Landing, Tracked (Armored) Mk. IV, LVT (A) (4) (75 mm. Howitzer)	SNL G-214
Tank, Light, M3SNL	G-103, Vol. 1
Tank, Light, M3A1 SNL	G-103, Vol. 5
Tank, Light, M3A3SNL	G-103, Vol. 7

The accessories to the engine such as the cranking motor, generator, carburetor, etc., are either the same or interchangeable with the units used in vehicles listed above.

## Publications Pertaining to this Vehicle:

Technical Manual 1st and 2nd Echelon
Technical Manual 3rd and 4th Echelon
Ordnance maintenance: American Bosch Magnetos MJT7A302, MJT9A304, and
MJT9A306TM 9-1750C
Ordnance maintenance: Carburetors (Stromberg)
Ordnance maintenance: Clutch, power take-off, bilge pump, tracks and suspension,
and hull for landing vehicles tracked (armored) with turret Mk. I LVT (A) (1),
(armored) Mk. II LVT (A) (2), (unarmored) Mk. II LVT (2)
Ordnance maintenance: Continental engine, Model W670-9A
Ordnance maintenance: Electrical equipment (Delco-Remy)
Ordnance maintenance: Fuel and lubrication systems for light tanks M3 and M3A1 Tm 9-1726F
Ordnance maintenance: fuel pumpsTM 9-1828A
Ordnance maintenance: Generating, starting, and ignition systems for light tanks M3
and modifications
Ordnance maintenance: Power train for light tanks M3 and M3A1TM 9-1728
Ordnance maintenance: Speedometers, tachometers and recorders
Ordnance maintenance: Speedometers, tachometers and recorders

# GENERAL INFORMATION (Cont'd)

## Manufacturer's Identification Symbol:

Identification symbols have been assigned to manufacturers' part numbers. These symbols are prefixed to the part numbers in this book and a list of manufacturers is shown on pages 4-5.

#### List of Abbreviations:

A list of the abbreviations appearing in this book is shown on page 8.

#### 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, and the sub-group is not, refer to the alphabetical index in the back of the book. This index will give the sub-group in which the part is listed. As the part names are arranged in alphabetical order within this sub-group, the complete listing of the part can readily be found.

If any one of the Part Numbers—Ordnance Number, Official 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.

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 sub-group number, which will permit locating the complete listing of the part.

THE PARTS SHOWN IN ORD 7 AND ORD 8 ARE ALL THE AUTHORIZED ITEMS OF ISSUE AVAILABLE FOR MAINTENANCE OF THE SUBJECT VEHICLE AND ARE THE ONLY ITEMS AVAILABLE FOR ISSUE. ITEMS THAT ARE NOT AUTHORIZED FOR ISSUE ARE THOSE ITEMS WHICH ARE NOT CONSIDERED ESSENTIAL FOR EFFICIENT MAINTENANCE OF THE VEHICLE. NORMALLY ITEMS SO OMITTED ARE ITEMS THAT ARE NON-FUNCTIONAL SUCH AS FENDERS, ETC., OR ITEMS WHICH ARE COMPONENTS OF KITS, SETS, OR ASSEMBLIES WHICH ARE AUTHORIZED FOR ISSUE.

# MANUFACTURERS' SYMBOLS

Listed below are the symbols assigned to the various manufacturers and used as a prefix to their part numbers throughout this catalog.

Symbol	Manufacturer	Address
AD	Alemite Division (Stewart-Warner Corp.)	Chicago, Ill.
AH	Arrow-Hart & Hegeman Electric Co	
AN	Ainsworth Mfg. Corp	
ASC	American Seating Co9ti	and Broadway, Grand Rapids, Mich.
BS .	Bendix-Stromberg Carburetor Co	South Bend, Ind.
BUN	Bundy Engineering Co., Inc	485 E. 113 St., New York, N. Y.
BZ	Breeze Corporation, Inc	30 S. 6th St., Newark, N. J.
CAN	Candler Hill Corp	2200 8th St., Detroit, Mich.
CCB	Chris-Craft Corp	
CED	Cannon Electric Development Co	3209 Humbolt, Los Angeles, Calif.
CP	Champion Spark Plug Co	
CRA	Collins Radio Co	Cedar Rapids, Iowa
CU	Cuno Engineering Corp	Meriden, Conn.
co	Continental-built Wright Engine Parts	2801 E. Jefferson Ave., Detroit, Mich.
DR	Delco-Remy Div. (General Motors Corp.)	Anderson, Ind.
DV	Dole Valve Co. (The)	1901 Carroll Ave., Chicago, Ill.
DZ	Dietz, Co., R. E	
EC	Eclipse Aviation Div. (Bendix Aviation Corp.)	Bendix, N. J.
ES	Electric Storage Battery Co	23-31 W. 43rd St., New York, N. Y.
FOM	Food Machinery Corp	San Jose, Calif.
GM	General Motors Corp30	44 W. Grand Blvd., Detroit (2), Mich.

# MANUFACTURERS' SYMBOLS (Cont'd)

Symbol	Manufacturer	Address
GPC	Garlock Packing Co. (The)	
GRV	Groov Pin Corp	. 2017 Kerrigan Ave., Union City, N. J.
HY	Hyatt Bearings Div. (General Motors Corp.)	P. O. Box 71, Harrison, N. J.
IB	Imperial Brass Mfg. Co. (The)	
IDS	Indestro Mfg. Co	
KD	K-D Lamp Co	610 W. Court St., Cincinnati, Ohio
KM	Kent-Moore Organization, Inc	485 W. Milwaukee, Detroit 2, Mich.
LD	Lord Mfg. Co.	
LE	Leach Relay Co	. 5915 Avalon Blvd., Los Angeles, Calif.
LI	Lisle Corp.	
MJ	Mechanics Universal Joint Co	
MN	Magnavox Co. (The)	Fort Wayne, Ind.
MTM	Miller Tool and Mfg. Co	
MZ	Mazda-General Electric Co	Schenectady (5), N. Y.
NC	Nice Ball Bearing Co	00 Hunting Park Ave., Philadelphia, Pa.
ND	New Departure Mfg. Co	1940 Hughes St., Bristol, Conn.
NVS	Navy Department	Bureau of Ships
PG	Pierce Governor Co	1605-35 Ohio St., Anderson, Ind.
PP	Peerless Pump Div. (Food Machinery Corp.)	
RO	Rollway Roller Bearing Co., Inc	
SCI	Scintilla Magneto Co	
SK	Shakeproof Lock Washer Co	
SKF	SKF Industries, IncF	
SP	Spicer Mfg. Corp	
SPR	Sprague Specialties Co	North Adams, Mass.
STY	Staley Mfg. & Electric Switch Co	
sw	Stewart-Warner Corp	
TEC	Triangle Engineering Co.	
TB	Thomas & Betts Co.	
TRC	Trackson Company	3333 S. Chase Ave., Milwaukee, Wis.
TRU	American Chain & Cable Co. (Tru-Stop)	
TWF	Trade-Wind Motorfans, Inc	5725 S. Main St., Los Angeles, Calif.
UN	Universal Oil-Seal Co	36 W. Kennett Rd., Pontiac, Mich.
VR	Vortox Mfg. Co	
WH	Weatherhead Co. (The)	
WIL	Wilcox-Rich (Div. of Eaton Mfg. Co.)	
WIS	Wisconsin Axle Div. (Timken-Detroit Axle Co.)	Oshkosh, Wis.
wĸ	W. A. Kidde & Co	
YA	Yale & Towne Mfg. Co. (Div. Hoist Mfgr's.)	
YR	Young Radiator Co.	

# STANDARDIZED GOVERNMENT GROUPING LIST

01-ENGINE  0100 0101 0101A 0102 0102A 0103 0103A 0103B 0104 0105 0105A 0105B 0105C	Engine Assembly Crankcase Cylinder and Head Crankshaft Crankshaft Bearings Pistons Piston Rings Piston Pins Connecting Rods Valves, Seats, Guides and Springs Tappets Rockers, Shafts, and Housings Valve Rocker Box Covers and Gaskets Cam	0107A 0107B 0107C 0107D 0107E 0107J 0107K 0107P 0108A 0108B 0109 0109A 0110 0111	Crankcase Oil Sump Oil Cooler Valve Rocker Oil Scavenger Pump and Strainer Oil Reservoir Oil Filter (External) Oil Distribution System Oil Pressure Relief Valve Oil Screen Intake Pipe Exhaust Pipes and Elbows Flywheel Fan Mountings Lifting Eye Accessory Drive
0107	Oil Pressure and Scavenger Pump	0113B-1	Accessory Case

# STANDARDIZED GOVERNMENT GROUPING LIST (Cont'd)

		Cam Drive	0605C	Panel Light
		Cranking Motor Drive	0606	Switches
	0113B-4	Governor, Generator and Bilge	0606C	Hull Wiring
	·	Pump Drive	0606D	Circuit Breakers
		Lower Accessory Drive	0606E	Terminal Boxes
		Magneto Drive	0607	Headlights
	0113 <b>B</b> -7	Oil Pressure and Scavenger Pump	0607A	Sealed Beam Lamp Units
		Drive	0607B	Lamps
	0113B-8	Valve Rocker Scavenger Pump	0607C	Fuses
		Drive	0608	Taillights
	0113B-9	Tachometer Drive	0608A	Auxiliary Lamps
02-	-CLUTCH	GROUP	0610 0610A	Battery Battery Supports
	0200	Clutch Assembly	0610R	Starting Cables and Connections
	0201	Clutch Disc	0610B	Relay Assembly
	0201A	Facings and Rivets	0612A	Interior Ventilating Equipment
	0201B	Driven Plate	0012A	(type with blower at bottom
	0202	Pressure Plate, Arms, and Springs		of engine room)
	0203	Release Yoke, Bearings, and Sleeve	0612B	Interior Ventilating Equipment
	0205	Pilot Bearing	001213	(type with blower at top of
	0208B	Spindle		engine room)
03-	-FUEL SYS	TEM GROUP		engine roomy
	0300-1	Fuel Tank (7 Hanger type)	07—TRANSM	ISSION GROUP
	0300-2	Fuel Tank (3 Hanger type)	0700	Transmission Assembly
	0300C	Fuel Tank Filler Pipe	0701	Case
	0301	Carburetor	0701A	Covers, Caps, Gaskets, and Seals
	0301-1	Carburetor Air Horn	0703A	Input Shaft and Bearings
	0301C	Air Cleaner and Intake Tube	0704A	Output Shaft and Bearings
	0302-1	Fuel Pump (1st series)	0704B	Gears and Synchronizers
	0302-2	Fuel Pump (2nd series)	0704C	First Speed Gear Shaft and Reverse
	0304	Fuel Lines		Shaft
	0304C	Fuel Control Valves	0705	Speedometer Drive Parts
	0305	Governor	0706A	Gearshift Lever and Parts
	0305A	Governor controls	0706B	Gear Shifter Rods and Parts
	0306	Fuel Filters	0706C	Gear Shifter Forks
	0308A	Primer Pump	0709	Transmission Oil Cooler
	0308A-1	Priming Distribution and Tubes	0709A	Transmission Oil Pump
04-	-EXHAUST	GROUP	0709B	Transmission Oil Screen, Shroud,
	0401	Muffler	07000	and Die Bevel Gage
	0402	Exhaust Pipe	0709C	Transmission Oil Strainer
	0402A	Tail Pipe	0709D	Transmission Oil Piping and Pres-
~-		•	0713	sure Regulator Valve Mountings
05-	-COOLING		0/13	Mountings
	0500	Baffle and Fan Shroud	09-PROPELI	LER SHAFT AND UNIVERSAL JOINT
06-	-ELECTRIC	AL GROUP	GROUP	
	0601	Generator	0902	Universal Joints and Yokes
	0601A	Generator Attaching Parts	0902-1	Universal Joint Guard
	0601B	Engine Generator Regulator		
	0602	Cranking Motor	10-DIFFEREN	NTIAL AND FINAL DRIVE GROUP
	0603A	Magneto—Scintilla	1002	Differential Assembly
	0604	Booster Coil	1003	Differential Gears, Pinions, and
	0604A	Ignition Wiring		Bearings
	0604B	Spark Plugs	1008	Final Drive Assembly
	0605	Instruments	1008A	Gears, Bearings, and Shafts
	0605B	Instrument Wiring and Tubing	1009	Steering Brake Equipment

# STANDARDIZED GOVERNMENT GROUPING LIST (Cont'd)

		STANDARDIZED GOVERNMEN		ĶOO! II4	o List (com a)
13-	TRACK SI	USPENSION GROUP Bogie Assembly	22-	-MISCELL# GROUP	NEOUS HULL AND ACCESSORIES
	1304	Track Idler		2201	Tarpaulin
	1305	Tracks		2203	Identification and Caution Plates
	1306	Track Supporting Rollers		2205	Tachometer and Related Parts
	1500	Track Supporting Roners		2208A	Bilge Pump, Drive Shaft, and
15-	FRAMES	AND BRACKETS			Tubing
	1501	Towing Attachment		2210	Compass
15A-	_CONTR	OLS GROUP	23_	GENERAL	USE STANDARDIZED PARTS
	15A1	Steering Brake Control	23-	2301	Vehicular Common Tools
	15C1	Accelerator and Throttle Foot Con-		2301 2301A	Vehicular Special Tools
		trols		2301B	Vehicular Equipment and Acces-
	15C2	Throttle Hand Controls		2301B	sories
	15D1	Clutch Controls		2302A	Fuels and Lubricants
				2304	Balls
	GROUP	DEFLECTORS, AND TRACK COVERS		2304B	Bolts
	1701	Salash Deflectors and Track Course		2304D	Hose Clamp
	1701	Splash Deflectors, and Track Covers		2304E	Fittings for Tubes, Pipes, and
18—	BODY A	ND HULL GROUP			Hoses
	1800A	Cab Cover Assembly (Unarmored		2304E-1	Bushings
		Cab)		2304E-2	Connectors and Couplings
	1800A-1	Cab Cover Assembly (Armored		2304E-3	Crosses
		Cab)		2304E-4	Elbows
	1800C	Armor Plates		2304E-5	Nipples
	1801B	Hull Covers and Doors		2304E-6	Tube Nuts
	1801C	Hull Lifting Eyes		2304E-7	Tees
	1801D	Gun Mounts		2304E-8	
	1802D	Ramp and Related Parts		2304F	Fittings, grease
	1803B	Floor Covers		2304G	Nuts
	1803C	Drain Valve		2304H	Pins
	1803D '			2304J	Rivets
	1804	Seats		2304K	Screws
	1804A	Seat Cushions		2304L	Washers
	1804B	Seat Adjusters and Supports		2304M	Locking Wire (in rolls)
	1805 <b>H</b>	Hatches and Related Parts (for		2304P	Tubing (bulk)
	100517 1	Unarmored Cab) Hatches and Related Parts (for		2304S 2304Y	Hose (bulk)
	100311-1	Armored Cab)		2305A	Plugs Woodruff Keys
	1809	Instrument Panel and Mounting		2303A	Woodium Keys
	1005	Parts	24-	-FIXED FIE	RE PROTECTION SYSTEM GROUP
	1812	Window (for Unarmored Cab Cover)		2401	Fixed Protection System
	1816	Periscope and Mountings (for Armored Cab Cover)	26-	-RADIO A SYSTEM	IND INTERNAL COMMUNICATING
		Armored Cab Cover)		2601	Radio and Supports
20-	WINCH A	ASSEMBLY GROUP		2602A	Amplifier
	2000A	Winch Assembly and Parts (Brake		2602B	Radio Junction Box
		Band Type)		2602C	Remote Control Unit and Junction
	2000B	Winch Assembly and Parts (Worm Gear Type)		2603	Box Radio Suppression System Parts
	2002	Cables			
	2002A	Pulleys	27	ORGANIZ EQUIPME	
21-	GUARDS			2701A	Organizational (2nd Echelon)
	2103A	Headlight Guards			Maintenance Special Tools

# LIST OF ABBREVIATIONS

alaluminum	lghlength
alloy-Salloy steel	lgtlight
ampampere	lin. ftlinear foot or feet
anldannealed	lkglocking
b-hdbutton-head	mach machine
	m-screw machine-screw
brbrass	M.I. malleable iron
bzbronze	mm. millimeter
calcaliber	
cdcadmium	mtgmounting NCNational Coarse
cd-pltdcadmium plated	
chamfchamfered	NFNational Fine
chrchromium	ninickel
C.Icast iron	No number
cir-milscircular mils	NPT National Pipe Thread
ckcountersunk	NS
ck-hdcountersunk-head	O.D outer diameter
cmcentimeter	oval-hdoval head
cont'dcontinued	ozounce
copcopper	ph-bzphosphor bronze
corr-res-Scorrosion-resistant-	pltdplated
steel (stainless)	ptpoint
cpcandlepower	rd-hdround-head
c-pin cotter pin	rd-ptround point
cup-ptcup point	regregular
degdegree	reqrequired
diamdiameter	rpmrevolutions per minute
dlddrilled	Ssteel
dld. f/c-pindrilled for cotter pin	SAE Society of Automotive
dld. f/lkg-wiredrilled for locking wire	Engineers
f/for	s-finsemi-finished
fil-hdfillister head	socket-hdsocket head
finfinished	sqsquare
fl-hdflat-head	sq-hdsquare-head
fl-ptflat point	stdstandard
ftfoot or feet	stghtstraight
galgallon	Tteeth
hdhead	thdthread
hdlsheadless	thkthick
hexhexagonal	thknsthickness
hex-hdhexagonal-head	tubtubular
hphorsepower	unfinunfinished
I.Dinner diameter	w/with
ininch	w/owithout
1bpound	znzinc

FIGURE A-VEHICLE, LANDING, TRACKED, MARK IV, LVT (4)-% LEFT FRONT VIEW (UNARMORED CAB)

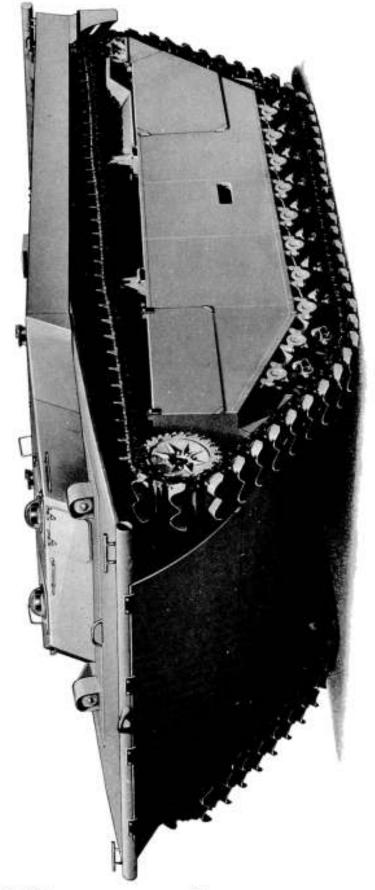


FIGURE B-VEHICLE, LANDING, TRACKED, MARK IV, LVT (4)-% LEFT FRONT VIEW (ARMORED CAB)