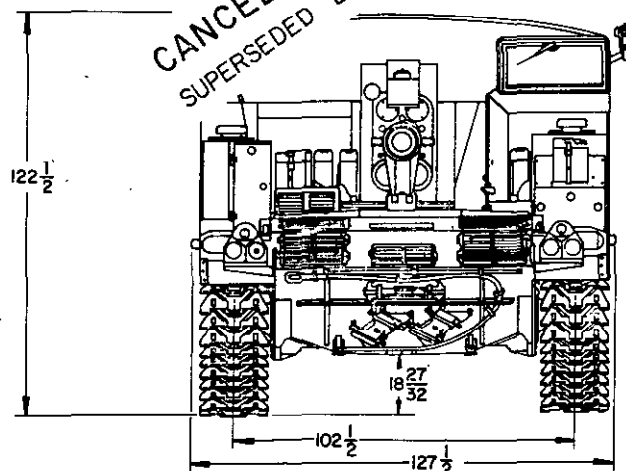
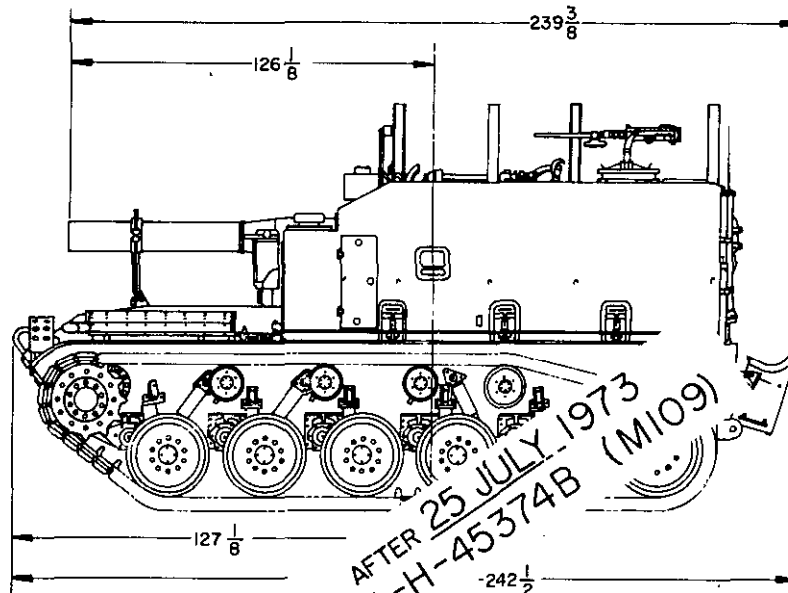
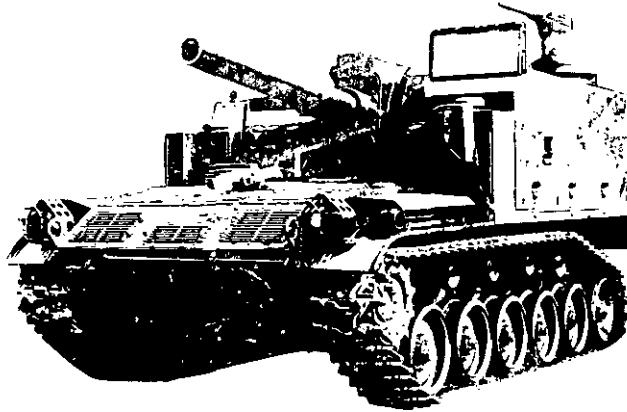


REVIEW ACTIVITY: ARMY-WC, MU, EL

FED. SUP CLASS
2350

CANCELLED AFTER 25 JULY 1973
SUPERSEDED BY MIL-H-45374B (M109)

DIMENSIONS ARE IN INCHES AND
ARE SHOWN FOR ENGINEERING
REFERENCE ONLY.

MS PART NO	DRAWING NO
MS 51986-1	F 8736129

P. A. MO (ATAC) Other Cust	INTERNATIONAL AGREEMENT	TITLE HOWITZER, MEDIUM, SELF PROPELLED 155 MM, M44A1
PROCUREMENT SPECIFICATION MIL-H-45304 (ORD)	SUPERSEDES:	

MILITARY STANDARD
MS 51986 (MO)
SHEET 1 OF 2

APPROVED 7 MAY 1964 REVISED (A) 25 JULY 1973

This standard has been approved by the
Department of the Army and is mandatory for use by
that activity. All other military activities are required
to employ this standard where suitable.

FED. SUP CLASS
2350

VEHICLE CHARACTERISTICS

GENERAL

WEIGHT (COMBAT LOADED) APPROX. 62,500 LBS.
CREW 5
WEIGHT (LESS CREW, STOWAGE AND FUEL) 58,000 LBS.
CENTER OF GRAVITY 47 9/16 IN. ABOVE GROUND
98 1/16 IN. FROM CENTERLINE OF SPROCKET
UNIT GROUND PRESSURE 9.4 LBS/SQ. INCH

ARMORVISION AND FIRE CONTROL EQUIPMENT

TELESCOPE, PANORAMIC	TYPE M12A7K	QTY. 1
TELESCOPE, DIRECT FIRE	TYPE M93	QTY. 1
QUADRANT, GUNNERS	TYPE M1A1	QTY. 1
SETTER FUZE	TYPE M26	QTY. 1
SETTER FUZE	TYPE M27	QTY. 1

ARMAMENT, PRIMARY

HOWITZER, 155 MM, M45 MOUNT, M80
RECOIL MECHANISM TYPE: HYDRO-SPRING
TRAVERSE: RIGHT 300 LEFT 300 RATE 100 PER SEC.
POWER TYPE: HYDRAULIC MANUAL TYPE: GEAR & PINION
ELEVATION: +65° DEPRESSION: -50° RATE: 100 PER SEC.
POWER TYPE: HYDRAULIC MANUAL TYPE: GEAR & PINION

ARMAMENT, SECONDARY

GUN, MACHINE, CAL. .50, M2, A.A. (1) RING MOUNT
TRAVERSE, 360° ELEVATION +52° DEPRESSION -21°
GUN, SUB-MACHINE, CAL. .45, M3A1 (1)
CARBINE, CAL. .30, M2 (4)

AMMUNITION

24 RDS. 155 MM
900 RDS. CAL. .50
720 RDS. CAL. .30
180 RDS. CAL. .45
8 GRENADES, HAND

RUNNING GEAR

SUSPENSION TYPE: INDEPENDENT-TORSION BAR
WITH TRAILING IDLER (28 IN. DIA.)
NO. OF WHEELS: 5 DUALS EACH SIDE, DISK TYPE,
WHEEL SIZE 25 1/2 IN.
TIRES: 10 DUALS, TYPE: SOLID RUBBER,
25 1/2 x 4 1/2
TRACK: TYPE T91E3, STEEL, W/DETACH. RUBBER
PADS
NO. SHOES/TRACK: 74L, 75R, PITCH, 6 IN.
WIDTH 21 IN.

ELECTRICAL SYSTEM

NOMINAL VOLTAGE, 24
GENERATOR, MAIN, 150 AMP., PART NO. 8724633
GENERATOR, AUX., 300 AMP., PART NO. 7402334
BATTERY: (4) TYPE 6TN, 12-V, 100 AMP.,
MS 35000-4
IGNITION SYSTEM: MAGNETO, MS 51333,
COIL, MS 51355-1

POWER PACKAGEENGINE

TYPE: 6 CYL. HORIZONTAL OPPOSED, AIR COOLED,
FUEL INJECTION, MS 51314-1
DISPLACEMENT, 895 CU. IN., BORE, 5.75 IN
STROKE, 5.75 IN.
GOVERNED SPEED, 2800 RPM COMPRESSION
RATIO, 5.5:1
FUEL, GASOLINE RATING, 80 OCTANE
BRAKE HORSEPOWER (STANDARD CONDITIONS)
500 @ 2800 RPM
TORQUE (STANDARD CONDITIONS) 945 @ 2000 RPM
MAIN COOLING SYSTEM, AIR, ENGINE DRIVEN
INTEGRAL FAN
OIL COOLING SYSTEM, AIR, ENGINE DRIVEN INTEGRAL
FAN.

POWER TRAIN

TYPE: CROSS DRIVE TRANSMISSION, PART NO. 7527947
HYDRAULIC CONVERTER, SINGLE STAGE, MULTIPHASE
STALL MULTIPLICATION, 4:1
OVERALL USABLE RATIOS: LOW, 14.9, HIGH 3.9
REVERSE 14.9
STEERING CONTROL: HYDRAULIC SERVO, HANDLE BAR
STEERING RATE, 6.8 RPM TURNING RADIUS, PIVOTS
BRAKES: MULTIPLE DISK OPERATION: FOOT PEDAL,
HYDRO-MECHANICAL
OIL COOLING SYSTEM: AIR, ENGINE DRIVEN INTEGRAL
FAN

FINAL REDUCTION

TYPE: SPUR GEAR, RATIO 4.75:1 FT/REV 6
SPROCKET PITCH DIA. 23.422 NO. OF TEETH - 12

COMMUNICATIONS

RADIO SET: AN/PRC, 8.9 OR 10 IN CREW COMPARTMENT
INTERPHONE: MODEL AN/UIC-1, 5 OUTLETS
EXTERNAL INTERPHONE EXT. KIT - MODEL C-980/U

FIRE EXTINGUISHER

FIXED: (2) CO2 10 # BOTTLES PORTABLE: (1)
CO2, 5# BOTTLE

CAPACITIES

FUEL, TOTAL, 150 GALLONS
CRANKCASE, REFILL, 44 QUARTS
TRANSMISSION, REFILL, 44 QUARTS
FINAL DRIVE, REFILL, 5 QUARTS

PERFORMANCE

GROSS HORSEPOWER TO WEIGHT RATIO, 15.6 HP/TON
MAX. TRACTIVE EFFORT, 53,000 LBS. TE/W 0.83
MAX. SPEED, 40 MPH MAX. GRADE, 60%
MAX. TRENCH, 72 IN. MAX. VERTICAL WALL, 30 IN
MAX. FORDING DEPTH, 42 IN.
CRUISING RANGE, 82 MILES

THIS VEHICLE SHALL BE IN ACCORDANCE WITH
REFERENCED DRAWING NO. 8736129, COPY OF WHICH
MAY BE OBTAINED FROM: ARMY TANK AUTOMOTIVE
CENTER, DETROIT ARSENAL, WARREN, MICHIGAN
ATTN: STANDARDIZATION BRANCH.

CERTAIN PROVISIONS OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABC-ARMY-STD. 98.
WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIAN WILL INFORM THEIR RESPECT-
IVE DEPARTMENTAL STANDARDIZATION OFFICE SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREE-
MENT CONCERNED. REFERENCE: STANAG 2822.

P.A. MO (ATAC)	INTERNATIONAL AGREEMENT	TITLE	MILITARY STANDARD
Other Cust		HOWITZER, MEDIUM, SELF PROPELLED 155 MM, M44A1	MS 51986 (MO)
PROCUREMENT SPECIFICATION MIL-H-45304 (ORD)	SUPERSEDES:		SHEET 2

DD FORM 672-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.