Medium Tank M4A3 75 (mid production)

			ENGINE			
GENERAL DATA		Make and Model: Ford GAA				
Crew:		5 men 232 inches	Type: 8 cylinder, 4 cycle, 60degree vee			
	Length: Gun forward w/o Sandshields			Ignition: Magneto		
Length: Gun to Rear w/o Sandshields 232 inches Length: w/o Gun, w/o Sandshields 232 inches		232 inches	Displacement: 1100 cubic inches Bore and Stroke: 5.4 X 6 inches			
Gun Overhang: 0		0 inches	Compression Ratio:	7.5:1		
Width: w/o San	ndshields	103 inches	Net Horsepower (max) 450 hp at 2600 rpm			
	Height: Over Turret hatch 108 inches		Gross Horsepower (max): 500 hp at 2600 rpm			
Tread:		83 inches	Net Torque (max): 950 ft-lb at 2200 rpm			
Ground Clearand Fire Height:	Ground Clearance: 17 inches Fire Height: 88 inches		Gross Torque (max): 1040 ft-lb at 2200 rpm			
	Turret Ring Diameter: (inside) 69 inches		Weight: 1560 lb. dry Fuel: 80 octane gasoline 168 gallons			
	Weight Combat Loaded: 67,300 pounds *		Engine Oil:	32 quarts		
Weight Unstowe		63,200 pounds*	Zinginie o ini	32 quints		
Power to Weight		12.9 hp/ton	POWER TRAIN			
Gross 14.4 hp/ton		Clutch: Dry disc, 2 plate				
Ground Pressure: Zero penetration 13.3 psi			Transmission: Synchromesh, 5 speeds forward, 1 reverse			
*all weights based on T48 or T51 tracks			Gear Ratios: 1 st 7.56:1 2 nd 3.11	4 th 1.11:1 5 th 0.73:1		
ARMOR	. 1 . 1 . 1 . 1		3 rd 1.78	Reverse 5.65:1		
	st homogeneous steel; F	full, rolled and cast	Steering: Controlled differential	Reverse 3.03.1		
Hull Thickness:	eel; Welded assembly Actual	Angled w/Vertical	Bevel Gear Ratio: 3.53:1	Steer Ratio: 1.5515:1		
Front, Upper	2.0 inches	56 degrees	Brakes: Mechanical, external contracting			
Lower	2.0 inches	0 to 56 degrees	Final Drive: Herringbone gear	Gear ratio: 2.84:1		
Sides	1.5 inches	0 degrees	Drive Sprocket: At front of vehicle with 1	13 teeth		
Rear	1.5 inches	0 to 10 degrees	Pitch Diameter: 25.038 inches			
Тор	0.75 inches	83 to 90 degrees	RUNNING GEAR			
Floor, Front Rear	1.0 inches 0.5 inches	0 degrees 90 degrees	Suspension: Vertical volute Spring			
Turret Thickne		90 degrees		12 wheels in 6 bogies (3 bogies/track)		
Gun Shield	3.5 inches	0 degrees	Tire Size: 20 X 9 inches			
Rotor Shield	2.0 inches	0 degrees	6 track return rollers (1 at rear of each			
Front	3.0 inches	30 degrees	Adjustable idler at rear of each track Idler Size: 22 X 9 inches	•		
Sides	2.0 inches	5 degrees	Tracks: Outside guide: T48, T49, T51, an	nd T54E1		
Rear Top	2.0 inches 1.0 inches	0 degrees 90 degrees	Type: (T48) Double pin, 16.56 inch			
ТОР	1.0 menes	90 degrees	(T49) Double pin, 16.56 inch	width, parallel bar, steel		
ARMAMENT			(T51) Double pin, 16.56 inch			
	Gun M3 in Mount M34	A1 in Turret	(T54E1) Double pin, 16.56 inch width, chevron, steel			
Traverse: Hydraulic and Manu		360 degrees	Pitch: 6 inches Shoes per Vehicle: 158 (79/track)			
Traverse Rate: (max)		15 seconds/360 degrees	Ground Contact Length: 147 inches			
Elevation: Mar		-25 to -12 degrees 20 rounds/minute				
Tiring Rate: (n Loading Syster		Manual	ELECTRICAL SYSTEM			
Stabilizer Syste		Elevation only	Nominal Voltage: 24 volts DC			
Secondary:		•	Main Generator: (1) 24 volts, 50 amper	res, driven by power take-off from		
	IG HB M2 flexible AA		main engine Auxiliary Generator: (1) 30 volts, 50 amperes, driven by the auxiliary			
	IG M1919A4 coaxial w		engine			
	IG M1919A4 in bow mo Mortar (smoke) fixed i		Battery: (2) 12 volts in series	ž		
	.45 caliber SMG M192					
*Mount M34A1 in later production tanks			COMMUNICATIONS			
AMMUNITION	N.		Radio: SCR 508, 528 or 538 in rear of turret; SCR 506* (command tank			
97 round		12 hand grenades	only) in right front sponson Interphone: (part of radio) 5 stations			
	300 rounds .50 caliber 12 rounds 2 inch smoke			Flag Set M238, Panel Set AP50A, Spotlight, Siren		
	nds .45 caliber		Flares: 3 each, M17, M18, M19, and m.			
4750 rou	ınds .30 caliber		Ground Signals Projector M4 (comman	• •		
FIRE CONTROL AND VISION EQUIPMENT			*early vehicles may be equipped with	h SCR 245		
Primary Weapon		<u>Indirect</u>	FIRE AND GAS PROTECTION			
	Periscope M4 with	Azimuth Indicator M19	(2) 10 carbon dioxide, fixed			
	Telescope M38	Gunner's Quadrant M1	(2) 4 pound carbon dioxide, portable			
Vision Devices:	Direct	Elevation Quadrant M9 Indirect	(2) 1 ½ Quart decontaminating apparatu	us		
Driver	Hatch	Periscope M6 (2)				
Asst. Driver	Hatch	Periscope M6 (2)	PERFORMANCE	21 7 7		
Commander	Hatch	Periscope M6 (1)	Maximum Speed: Sustained, level road Short periods, level	21 miles/hour 24 miles/hour		
Gunner	None	Periscope M4 (1)	Maximum Grade:	60 percent		
Loader	Pistol Port	Periscope M6 (1)	Maximum Trench: 7.5 feet			
Total Periscopes: M4(1), M6 (6) Total Pistol Ports: Hull (0), Turret (1)		Maximum Vertical Wall: 24 inches				
10.011150011010	(v), 1 union (1)		Maximum Fording Depth:	42 inches		
			Minimum Turning Circle: (diameter)	70 feet		
			Cruising Range: Roads	approx. 120 miles		