90mm GMC M36 B1

		John Givic M30 Bi				
			ENGINE			
GENERAL DATA			Make and Model: Ford GAA			
Crew:		5 men	Type: 8 cylinder, 4 cycle, 60 degree vee			
	forward w/o muzzle brake	293 inches 247 inches	Cooling System: Liquid <u>Ignition:</u> Magneto			
	to Rear w/ Sandshields Gun, w/ Sandshields	247 inches	Displacement:	1100 cubic inches		
		0 inches	Bore and Stroke: Compression Ratio:	5.4 X 6 inches 7.5:1		
Gun Overhang: Gun forward 0 inches Width: w/ Sandshields 105 inches			Net Horsepower (max) 450 hp at 2600 rpm			
Height: Over all 112.75 inches		Gross Horsepower (max): 450 hp at 2600 rpm				
Tread: 83 inches		Net Torque (max): 950 ft-lb at 2200 rpm				
Ground Clearance: 17 1/2 inches		Gross Torque (max): 1040 ft-lb at 2200 rpm				
Fire Height: 85 inches		Weight:				
Turret Ring Diameter: (inside) 69 inches		Fuel: 80 octane gasoline 168 gallons				
Weight Combat Loaded: 68,500 pounds *		Engine Oil: 32 quarts				
Weight Unstowed: 65,500 pounds *						
Power to Weight Ratio: Net 12.9 hp/ton			POWER TRAIN			
Gross 14.4 hp/ton Ground Pressure: Zero penetration 14.3 psi		Clutch: Dry disc, 2 plate Transmission: Synchromesh, 5 speeds forward, 1 reverse				
*all weights based on T48 or T51 tracks			Gear Ratios: 1 st 7.56:1 4 th 1.11:1			
			2 nd 3.11	5 th 0.73:1		
ARMOR			3 rd 1.78	Reverse 5.65:1		
	cast homogeneous steel; Hul	I, rolled and cast	Steering: Controlled differential			
homogeneous steel; Welded assembly Hull Thickness: Actual Angled w/Vertical			Bevel Gear Ratio: 3.53:1 Steer Ratio: 1.5515:1			
Front, Upper	2.5 inches	47 degrees	Brakes: Mechanical, external contracti	ing		
Lower	4.25 to 2 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 wi	th 13 teeth		
Rear	1.5 inches	0 to 22 degrees	Pitch Diameter: 25.038 inches			
Top	0.75 inches	83 to 90 degrees	DANNING CE A D			
Floor, Front	1.0 inches	0 degrees	RUNNING GEAR			
Rear 0.5 inches 90 degrees			Suspension: Vertical volute Spring 12 wheels in 6 bogies (3 bogies/track)			
Turret Thickness:			Tire Size: 20 X 9 inches			
Gun Shield 3.0 inches 0 degrees		6 track return rollers (1 at rear of each bogie)				
Sides	1.25 inches 1.75 to 5.0 inches	5 degrees	Adjustable idler at rear of each tra			
Rear Top	0.375 to 1.0 inches	0 degrees 90 degrees	Idler Size: 22 X 9 inches			
тор	0.373 to 1.0 menes	90 degrees	Tracks: Outside guide: T48, T49, T51,	, and T54E1		
				in, 16.56 inch width, chevron, rubber		
ARMAMENT	Γ			n, 16.56 inch width, parallel bar, steel		
Primary: 90mm Gun M3 in Mount M4 (T8) in Turret				oin, 16.56 inch width, smooth, rubber		
Traverse: Hydraulic and Manual 360 degrees				pin, 16.56 inch width, chevron, steel		
Traverse Rate: (max) 15 seconds/360 degrees			Pitch: 6 inches			
Elevation: Manual -20 to -10 degrees		Shoes per Vehicle: 158 (79/track) Ground Contact Length: 147 inches				
Tiring Rate:		8 rounds/minute	Ground Contact Length. 147 men	ies		
Loading Syst		Manual	ELECTRICAL SYSTEM			
Stabilizer Sy	stem:	none	Nominal Voltage: 24 volts DC			
Secondary: (1) .50 caliber MG HB M2 flexible AA mount on turret			Main Generator: (1) 24 volts, 50 amperes, driven by power take-off from			
(1) .30 caliber MG M1919A4 in bow mount			main engine			
Provision for (4) .30 caliber Carbines M1A2			Auxiliary Generator: (1) 30 volts, 50 amperes, driven by the auxiliary			
· · · · · · · · · · · · · · · · · · ·			engine			
AMMUNITI(ON		Battery: (2) 12 volts in series			
47 rounds of 90mm 36 hull11turret 12 hand grenades			COMMUNICATIONS			
1000 rounds .50 caliber			COMMUNICATIONS Radio: SCR 610 in right front sponson			
	ounds .30 caliber		Interphone: RC99, 5 stations			
450 ro	unds .30 caliber carbine		Flag Set M238, Panel Set AP50A, Siren			
FIRE CONTI	ROL AND VISION EQUIP	PMENT	Pyrotechnic Hand Projector M9			
Primary Wear	oon: <u>Direct</u>	Indirect	,			
	Telescope M76D or F	Azimuth Indicator M18				
		Gunner's Quadrant M1	FIRE AND GAS PROTECTION			
		Elevation Quadrant M9	(2) 10 carbon dioxide, fixed			
Vision Device		Indirect N. (2)	4 pound carbon dioxide, portable			
Driver	Hatch Hatch	Periscope M6 (2)	(2) 1 ½ Quart decontaminating appar	ratus		
Asst. Driver Commander	Open turret	Periscope M6 (2)	DEDECORMANCE			
Gunner	Open turret Open turret	none none	PERFORMANCE	ad 26		
Loader	Open turret	none	Maximum Speed: Sustained, level ro Maximum Grade:	ad 26 miles/hour 60 percent		
Total Periscop		none	Maximum Grade: Maximum Trench:	7.5 feet		
10m. 1 01.000pcs. 1110 (1)			Maximum Vertical Wall:			
			Maximum Vertical Wall: 24 inches Maximum Fording Depth: 36 inches			
			Minimum Turning Circle: (diameter)			
		Cruising Range: Roads	approx. 100 miles			