ALLISON AUTOMATIC TRANSMISSIONS

X1100-5

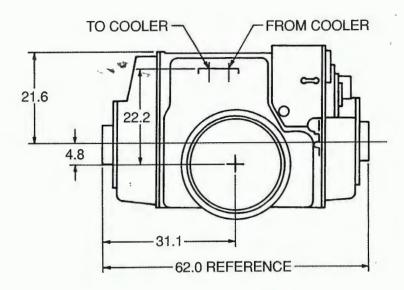
750 TO 1500 GHP (560-1119 kW) ENGINES 50 TO 70 TON VEHICLES

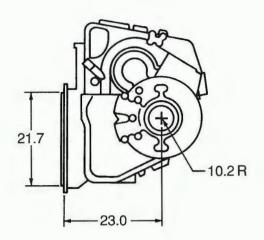


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## SPECIFICATIONS

RATINGS*	Gross Input Power (Maximum)	Input Speed (Maximum)	Gross Vehicle Weight (GVW)
X1100-5	1500 hp (1120 kW)	2100 to 3000 rpm	50 to 70 tons
*Ratings vary with sp	pecific application; contact Allison Transm	ission, Inc. for specific details.	
TORQUE CONVE	RTER		
Single stage, 3-ele	ment, multiphase		
Stall torque ratio			1.80:1 to 3.30:1
Automatic Lockup	Clutch		Effective in 1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> ranges
RANGE GEARIN	G		RATIO**
Constant mesh, sp	ur type, planetary		
First Range			5.80:1
Second Range			2.98:1
Third Range			1.86:1
Fourth Range			1.26:1
Reverse – 1	· · · · · · · · · · · · · · · · · · ·		8.19:1
Reverse – 2			2.32:1
	t include torque converter ratio.		
RANGE CONTRO	DLS	~	Automatic; 1-4, 2-4, N, R1-R2
STEERING			RATIO
	hydrostatically-controlled, differenti	al	
First Range	nyurostaticany-controlled, unicrenti		2.59:1
Second Range			1.59:1
Third Range			1.33:1
Fourth Range			1.21:1
Neutral			Pivot
Reverse – 1			3.50:1
Reverse – 2			1.40:1
BRAKING			
Multiple plate, oil	cooled		
Service			Hydraulic power apply
Emergency and pa	arking		Mechanical apply
Capacity		U	p to 16 ft/sec <sup>2</sup> (5 m/sec <sup>2</sup> ) deceleration rate
POWER TAKEOF	F PROVISIONS		
Rear			300 hp (224 kW) rating
OIL SYSTEM			
Oil type			MIL-L-2104D, Grade 30; MIL-L-46167 Arctic
Capacity (excludin	g external circuit)		40 US gals (150 liters)
Filter		Integral or remote m	ount, full flow, replaceable dual elements
WEIGHT (DRY)			4125 lbs (1870 kg)





## STATUS

The X1100 was originally configured to accept multiple input modules to adapt to diesel, turbine or rotary engines. Production of the X1100-3B transmission for the M1 Abrams Tank started in September 1979 and utilizes an input module for a turbine engine. The configuration developed for the heavier M1A1 tank, introduced with production in April 1985, incorporates changes that further improve the efficiency and reliability of the transmission.

The X1100-5 transmission has high commonality (90%) with the X1100-3B; therefore it maintains comparable power ratings and reliability in differing vehicle installations. It can be used in applications with a variety of currently available diesel engines with ratings of 750-1500 GHP (560-1119 kW).

The X1100-5 is currently available for powertrain upgrades of M60 chassis based vehicles and other main battle tanks.

## APPLICATIONS

Vehicle	Engine	
M60 FOV Repower	AVDS 1790 Diesel	
Centurion Repower	Various diesel engines	



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