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ROYAL AUSTRALIAN AIR FORCE

Operation, Maintenance, Repair and Overhaul Manual and Illustrated Parts Breakdown

TIEMAN INDUSTRIES PUMPING UNIT

STOCK No W189TM/A

ISSUED FOR THE MANAGEMENT AND CONTROL
OF THE ROYAL AUSTRALIAN AIR FORCE.

BY COMMAND OF THE AIR BOARD.

Secretary

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Amendment List		*Topic Affected*	**Amendment Effect*	*Amended By*	*Date*
No	*Dated*				
1	22FEB71	O/I	—		31MAR/73

NOTES TO READERS

This publication is applicable to the Operation, Maintenance, Repair and Overhaul and contains the Illustrated Parts Breakdown of the Tieman Industries Pumping Unit Stock No W189TM/A.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS FOR WORTHINGTON PUMPS

1. Start pump in normal manner and run engine at 1250 rpm. Engine cannot be overloaded at this speed but pump should not be run for too long against a closed discharge because water in pump casing will overheat.

2. If a higher flow rate is required, increase speed to 1560 rpm with water discharging to required point. Note pressure gauge reading and check on table: heads below 160 feet will overload engine if continuous operation is required but may be used intermittently.

3. Use speed of 1775 rpm only for high head conditions. Exceeding 1775 rpm will cause pump cavitation and will erode impeller.

/4. The following

4. The following table has been calculated for a vertical suction lift of 15 feet using one 40 ft length of 10" hose.

5. If operating in red region, watch for engine overheating.

RPM	Pressure Feet Head	GPM	
1250	145	0	
	140	440	
	130	840	
	120	1280	
	110	1580	
	100	1780	
	90	1920	
	80	2030	
	70	2110	
	Lower heads and larger flows permissible without engine overload		
1560	225	0	
	220	800	
	210	1200	
	200	1440	
	190	1670	
	180	1840	
	170	2000	
	160	2120	- RED
1775	295	0	
	290	660	
	285	1000	
	280	1180	- RED

MAINTENANCE MANUAL

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