

SECTION  
COOLING SYSTEM.

SUB SECTIONS.

RADIATOR; AIR INLET;  
THERMOSTAT; WATER PUMP; FAN.

<u>SECTION</u> <u>NO. 1</u>	<u>SUB SECTION</u>	<u>INFORMATION</u> <u>SUPPLIED BY</u>
<u>1</u>	<u>RADIATOR</u>	<u>MR. E.E. GORDON</u>
<u>2</u>	<u>AIR INLET</u>	<u>MR. A.S. BRYAN</u>
<u>3</u>	<u>THERMOSTAT</u>	<u>MR. J.E. HUGHES</u>
<u>4</u>	<u>WATER PUMP</u>	
<u>5</u>	<u>FAN</u>	<u>MR. J.E. HUGHES</u>

# ENGINEERING TECHNICAL DATA

<b>Model</b> M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	<b>Book No.</b> TD/G.1.
<b>Section</b> COOLING SYSTEM	<b>Sheet No.</b> 1 of 3
<b>Sub-Section</b> RADIATOR	<b>Date</b>

**TYPE OF COOLANT CIRCULATION** Pump separate Header mounted on engine

<b>TOTAL COOLANT CAPACITY</b>	WITH HEATER 13.5/8 pints	Plus .65 pints
<b>TO BOTTOM OF FILLER NECK</b>	WITHOUT HEATER 13.5/8 pints	

**RADIATOR** DRG. NO. AMH.98

**TYPE** 4 Row 'B' type, gilled tube, Baked 12 GILLS PER INCH

<b>DIMENSIONS MATRIX</b>	LENGTH. BETWEEN TUBE PLATES	10.3/4 INS.
	WIDTH. i.e. GILL LENGTH	18.1/8 INS.
	DEPTH. i.e. GILL WIDTH	2.1/4 INS.
	FRONTAL AREA	1.35 SQ.FT.

<b>MATERIALS</b>	MATRIX Gills .004" Copper	.005" Brass
	TANKS 22 S.W.G.	TUBE PLATES 22 S.W.G.

**DRY WEIGHT** 17.5 lbs.

<b>RADIATOR CAPACITY</b> PINTS	<b>HEADER TANK CAPACITY</b> PINTS	1st 50 only 2nd unit
3.95	1.3/4 2.2/3	

**RADIATOR FLOW TEST** 15 GALLONS/MINUTE AT 1 LBS/SQ.IN.

**PRESSURE CAP BLOW OFF** 4 LBS/SQ.IN. **VACUUM VALVE.**

**DRAIN TAP.** L.H.S. of vehicle projecting downwards 1/4" B.S.P.

<b>OVERFLOW</b>	POSITION On header tank
	SIZE 5/16 O/D x 18 SWG (.048")

<b>HEATER CONNECTIONS</b>	POSITION Outlet from engine thermostat housing
	SIZE Inlet to engine on lower water manifold 1/2" O/D x 18 SWG. copper tube

**RADIATOR MOUNTING** 5/16" UNF weld nuts on flanged side castings. 3 off each side

**FINISH** Paint Radiator Black

<b>HOSES</b>	TYPE RAD. IN.	RAD. OUT.
	INTERNAL DIA: " " 1.5/16" Engine end 1.1/8" Rad. End	" " 1.3/8" E. 1.1/8" R.
	LENGTH " " 6.11/16 ins	" " 3.5/32" ins

Details of Modifications	Change Point	Note Reference

**Issue** 1. **Section** E. †



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Section	COOLING SYSTEM	Sheet No. 3 of 3
Sub-Section	FAN	Date

TYPE, NUMBER OF BLADES: 6			
BLADE	WIDTH:	2 ins.	50.8 mms.
	OUTSIDE DIA:	12 ins.	304.8 mms.
	ANGLE:		36 deg.

FAN TO ENGINE REVS RATIO: <b>Engine Speed</b>			
FAN PULLEY DIMENSIONS:	OUTSIDE DIA:	4.75 ins.	120.65 mms.
	GROOVE DIA:	3.721 ins.	94.513 mms.
	BORE:	.4716/.4788 ins.	11.9786/11.999 mms.

FAN BELT:	TYPE:	<b>Wedge</b>	
	ADJUSTMENT:	By Dynamo Swinging Link.	
	LENGTH:	38.9 ins.	988. mms.
	TOP WIDTH:	.38 ins.	9.652 mms.
	DEPTH:	.3125 ins.	7.937 mms.
	ANGLE:		40 deg.
	WT/FT:		ozs.

'ALL PULLEY EFFECTIVE RADII.'	CRANK:	2.333 ins.	59.258 mms.
	FAN:	2.333 ins.	59.258 mms.
	DYNAMO:	2.333 ins.	59.258 mms.

ANGLE OF LAP:	CRANK PULLEY:		147 deg.
	PUMP/FAN PULLEY:		78 deg.
	DYNAMO PULLEY:		135 deg.
	IDLER PULLEY:	<b>None</b>	

HEATER POSITION:

CONNECTIONS SIZE:

Details of Modifications	Change Point	Note Reference
Issue 1.		Section E. 3