

SECTION
FUEL SYSTEM.

SUB SECTIONS

MANIFOLD; CARBURETTER; AIR CLEANER
FUEL PUMP; FUEL INJECTION PUMP; FUEL LINE; TANK.

SECTION SHEET No.	SUB-SECTION	INFORMATION SUPPLIED BY
1.	MANIFOLDS	MR. J. R. THOMPSON
2.	CARBURETTORS	
3.	AIR CLEANER	MR. A. S. KREVER
4.	FUEL PUMP	MR. R. BOYLE
5.	FUEL INJECTION	
6.	FUEL LINE, TANK	MR. A. S. KREVER

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	Book No. TD/G.1.
Section	FUEL SYSTEM	Sheet No. 1 of 6
Sub-Section	MANIFOLDS	Date

TYPE OF INDUCTION: Twin Carburetter, normally aspirated.

TYPE OF EXHAUST: 4 Branch, Twin Outlet (1,4 & 2,3)

MATERIAL: Induction Manifold Cast Aluminium
Exhaust Manifold Cast Iron.

SEALING MEDIA, PIPE TO MANIFOLD FIXING: Conical joint with loose collar

HOT SPOT: None

INTERNAL DIAMETER OF MOUNTING FLANGES: 1.5 ins. 38.1 mms.

DIAMETER AT CARBURETTER MOUNTING: 1.25/32 ins. 45.237 mms.

CLAMPING METHOD: Inlet & Exhaust Manifold Fixed to Head by Studs and Nuts.

STUD SIZE: Exhaust 5/16" dia Inlet & Carburetter 3/8" dia.

TORQUE TIGHTNESS OF STUD NUTS: lbs/ft
(Manifolds to Head)

Details of Modifications	Change Point	Note Reference
Issue 1.		Section C. 1

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	Book No.	TD/G.1.
Section	ENGINE	Sheet No.	2 of 6
Sub-Section	CARBURETTORS.	Date	

MAKE: **S.U.**
 TYPE: **H.6.**
 S.U. SPECIFICATION NO: **AUG.877.**
 NUMBER OF: **2.**
 CHOKE SIZE: **1.3/4"**
 THROTTLE SIZE: **1.3/4"**
 PISTON SPRING: **4.1/2 oz (Red)**
 DAMPER **Standard**
 SUCTION HOLE DIAMETER: **2 x 1/4"**
 FLOAT LEVEL: **7/16" Test Bar**
 FLOAT CHAMBER DIAMETER: **2.1/4"**
 FLOAT FORK TEST BAR DIAMETER: **7/16"**
 LOCATION OF FUEL FILTERS: **In Float Chamber Lid.**
 FLOAT WEIGHT: **20/23 grammes.**
 STANDARD: **OA.6 (Provisional)**
 NEEDLE: RICH:
 WEAK:
 TYPE OF INDUCTION HEATER
 FOR COLD STARTING:
 STARTER CARBURETTER:
 SEALING MEDIA:
 PISTON DAMPER OIL. S.A.E. NO. 20
 ECONOMISER:
 THROTTLE-MIXTURE INTERCONNECTION - TYPES: **Cam.**

Details of Modifications	Change Point	Note Reference
Issue 1.		Section C.2

ENGINEERING TECHNICAL DRAWING

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EK167)	Book No. TD/6.16
Section	FUEL SYSTEM	Sheet No. 3 of 6
Sub-Section	AIR CLEANER	Date

MAKE: **Vokes**
NUMBER OF: **2**

HOME: **Oil Watted Element**
TYPE:
EXPORT:

AIR PIPE TYPE: **None**

AIR PIPE SIZE: **None**

TYPE OF MOUNTING TO CARBURETTER: **To Atmosphere Face**

CAPACITY OF OIL BATH: _____
LUBRICANT: _____

SAE.NO.

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

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	Book No. TD/C.1.
Section	FUEL SYSTEM	Sheet No. 4 of 6
Sub-Section	FUEL PUMP	Date

TYPE: L.C.S. ADA.73
MAKE: S.U.
POSITION IN VEHICLE: Chassis Rear O/S.
DELIVERY PRESSURE: 2.5 lbs.per.sq.in.
VACUUM: 2.5 "Hg.
MAX. DELIVERY RATE 1.65 Pts/Min.
MAX DELIVERY RATE 100 Pts/Hour
VEHICLE INSTALLATION -
LEVEL GROUND.

MECHANICAL TYPE.

	- DIAPHRAGM SPRING -	- ROCKER ARM SPRING -
FREE LENGTH:		
NUMBER OF COILS:		
TEST LENGTH:		
TEST PRESSURE:		
FUEL PUMP PUSH ROD LENGTH:	ins. mms.	ins. mms.

ELECTRICAL TYPE.

CONTACT POINT GAP: .030"
TIME BETWEEN IMPULSES WITH
PUMP CHAMBER FULL AND BOTH ~~15~~
VALVES SEATING: 15 secs.

Details of Modifications	Change Point	Note Reference
Issue 1.		Section C.4

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	Book No.	TD/G. 1.
Section		Sheet No.	5 of 6
Sub-Section		Date	

FUEL INJECTION PUMP.

MAKE:

TYPE:

TYPE OF DRIVE:

NOT FITTED

PLUNGER DIAMETER:

PLUNGER STROKE:

MAXIMUM OUTPUT PER STROKE:

LUBRICANT CAPACITY:

FUEL INJECTION SETTING (spill cut off):

GOVERNOR UNIT MAKE:

GOVERNOR UNIT TYPE:

VENTURI UNIT MAKE:

VENTURI UNIT TYPE:

TIMING:

DELIVERY LIMITS:

INJECTORS.

MAKE:

NOT FITTED

TYPE:

SPRAY ANGLE:

INJECTOR PRESSURE:

Details of Modifications	Change Point	Note Reference
Issue 1.		Section C. 5

ENGINEERING TECHNICAL D.D.A

Model	M.G. 2 Seater Series M.G.A., Twin Cam (EX187)	Book No.	TD/G.10
Section		Sheet No.	6 of 6
Sub-Section	FUEL LINE AND FUEL TANK	Date	

FUEL LINE.

FUEL LINE POSITION AND LAY OF PIPE TO ENGINE.

Along R.H. side of chassis frame to engine compartment, crossing to L.H. side of engine to carburettor.

PIPE:	MATERIAL:	Bundy Tubing	
	OUTSIDE DIAMETER:	5/16" O/dia. x 20 SWG (.036)	
	BORE:		
	LENGTH:	Tank to pump 34.3/4" / Pump to carb flexible 83.1/8"	
FLEXIBLE PIPE:	POSITION:	Between Carbs / Main pipe to carburettor	
	LENGTH:	15.1/2 ins.	11 ins.
	BORE:	3/16 ins.	

FUEL TANK

SHAPE: Rectangular

MATERIAL: Sheet Steel

CAPACITY: 10 gallons

USABLE QUANTITY: 9 gallons 7.1/2 pints

POSITION IN VEHICLE: Central behind rear axle

DISTANCE TO C of G OF VEHICLE: 56 ins from forward face of tank

NUMBER OF FILLERS AND POSITION: One

AIR BLEED FROM TANK: None

MAXIMUM RATE OF FILL: 10 galls /min

TYPE OF FILLER CAP: Spring Lever

Details of Modifications	Change Point	Note Reference
Fuel line corrected		TD/MGR. 12.
Issue 1, 2.		Section 0.6