

SECTION
ELECTRICAL SYSTEM.

SUB SECTIONS.

WIRING DIAGRAM; FUSES; BULBS; STARTER; DYNAMO;
BATTERY; HORN; WINDSCREEN WIPER; CONTROL UNIT.

SECTION SHEET No.	SUB-SECTION	INFORMATION SUPPLIED BY
1b	FUSES	MR. A.S. HEWNER
1.	BULBS	
2.	STARTER	
3.	DYNAMO	
4.	BATTERY	
4.	HORN	
5.	WINDSCREEN WIPER	
5.	CONTROL UNIT	
6.	WIRING DIAGRAM	

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (KX187)	Book No. TD/G.1.
Section	<u>ELECTRICAL SYSTEM</u>	Sheet No. 1 of 6
Sub-Section	FUSES BULBS	Date

FUSES:

NO. USED: Two and two spare

RATING: 35 AMP

CIRCUIT:

<u>BULBS.</u>		VOLTS	WATTS	TYPE NO.
	Home & KKR. HED	12	50/40	434
	France	12	Supplied and fitted in France	
HEADLAMPS:	Continental	12	45/40	370
	U.S.A.	12	36/36	301
FOGLAMPS:		12	48	323
SIDE LAMPS:		12	21/6	380
SIDE LAMPS (WITH FLASHERS).		12	6/21	380
STOP, TAIL.		12	6/21	380
STOP, TAIL, (with flashers).		12	6/21	380
REVERSE LAMP:		-	-	-
NO. PLATE LAMP:		12	6	989
RADIATOR BADGE LAMP:		-	-	-
IGNITION WARNING LIGHT:		12	2.2	987
DIRECTION INDICATOR WARNING LIGHT:		12	2.2	987
OIL PRESSURE WARNING LIGHT:		-	-	-
MAIN BEAM WARNING LIGHT:		12	2.2	987
LIGHT SWITCH WARNING LIGHT:		12	2.2	987
PANEL ILLUMINATION:		12	2.2	987
BOOT ILLUMINATION LAMP:		-	-	-
ROOF LAMP:		-	-	-
MAP READING LAMP:		12	2.2	987
DIRECTION INDICATORS: Flashers		12	6/21	380

Details of Modifications	Change Point	Note Reference
45/40 370 was 36/36 301	From outset	TD, MGR/S
6/21 380 was 6/18 361		
6/21 380 was 6/18 361		
6/21 380 was 6/18 361		
6 989 was 4 222		
6/21 380 was 6/18 361		
Issue 1. 2.		Section 0. 1

ENGINEERING TECHNICAL DATA

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

STARTER.

MAKE: Lucas
TYPE: L.3-1
MODEL NO: M35G1.
SERVICE NO: 25022
VOLTAGE: 12
LOCK TORQUE: 8 lb/ft.
LOCK CURRENT DRAW: 325 amps.
LOCK VOLTAGE: 7.5
SWITCH TYPE: ST19/2 Manual Starter SW Service No. 76423,
SWITCH LOCATION:
BRUSH SIZES: .625" x .250" x .559" (When New)
BRUSH SPRING TENSION: 32/40 ozs.
NO. PINION TEETH: 9
RATIO: 13.33⁺ 1
DIRECTION OF ROTATION, COMMUTATOR END: Anticlockwise.
POSITION ON ENGINE: L.H. Side Looking Front Front.

SWITCHES-LAMPS	TYPE	MODEL NO.	SERVICE NO.
ROOF LAMP SPOT LIGHT REVERSE LIGHT FOG LAMP	PS 7		031731

Details of Modifications	Change Point	Note Reference
Issue to		Section 0. 2

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series H.G.A. Twin Cam (EX187)	Book No. ED/5.1.
Section	ELECTRICAL SYSTEM	Sheet No. 3 of 6
Sub-Section	DYNAMO	Date

MAKE:	Lucas		
MODEL:	C39P.V.2.		
TYPE:	L ₂ -0		
SERVICE NO:	22258		
POSITION:	R.H. side of Engine		
TYPE OF DRIVE:	Belt		
VOLTAGE:	12		
TYPE OF VOLTAGE CONTROL:	Current Compensated Voltage Regulator.		
MAXIMUM OUTPUT:	19 amps at	13.5 volts.	
DRIVE RATIO:		time Engine speed.	
CUT IN SPEED:	1050/1200 rpm. at	13 volts.	
FIELD RESISTANCE:		6.1 ± 5%	ohms.
BRUSH SIZES:	.749" x .249" x 5/8" (Kinch New).		
BRUSH SPRING TENSION:	22/25.	ozs.	at Moment of Lift.
DIRECTION OF ROTATION COMMUTATOR END:	Anti-clockwise.		
PULLEY DIAMETER:		4.3/4	ins.
DYNAMO PULLEY EFFECTIVE RADIUS:		2.333	ins.
BELT LAP ANGLE: (SEE SHEET 3 SECTION E).		135	deg.
BELT ADJUSTMENT:	By Dynamo Swinging Link.		

Details of Modifications	Change Point	Note Reference
Issue 1.		Section 0.3

ENGINEERING TECHNICAL D.D.A

Model	M.G. 2 Seater Series M.G.A. Twin Cam (X187)	Book No. ED/G.1.
Section	ELECTRICAL SYSTEM	Sheet No. 4 of 6
Sub-Section	BATTERY - HORNS	Date

BATTERY.

MAKE: Lucas
MODEL: SG.9.E.
TYPE NO: Home and Export
SERVICE NO: 4023107
VOLTAGE: 12
CAPACITY: 10 hr. rate. 54 amps.
TYPE OF COVER: None
EARTH TERMINAL: Positive
NO. PLATES PER CELL: 9
HEIGHT: over terminals 9.1/4 ins.
WIDTH: 6.7/8 ins.
LENGTH: over lugs 7.5/8 ins.
LOCATION IN VEHICLE: one on each side behind seats

HORN(S).

MAKE: Lucas
MODEL: Windtone
TYPE: WT 619L (WT 618H Optional)
SERVICE NO: 69046.A (69047A extra)
NUMBER FITTED: one low note
LOCATION: Front extension
SWITCH TYPE: Push
POSITION OF SWITCH CONTROL: Horn push on facia

Details of Modifications	Change Point	Note Reference
Issue to		Section 0.4

ENGINEERING TECHNICAL DATA

Model	M.G. 2 Seater Series M.G.A. Twin Cam (EX187)	Book No.	TD/G. 10
Section		Sheet No.	5 of 6
Sub-Section		Date	

WINDSCREEN WIPER.

MAKE: Lucas
 MODEL: 120° wipe
 TYPE: DA 48 RHD DA 49 LHD
 SERVICE NO: 073066 B 073067 B

BLADES	NUMBER OF: 2		
	TYPE: 745308 RHD	745309 LHD	
	LENGTH: 8 ins		
	LENGTH OF ARM: 9.1/2 ins		

TYPE OF DRIVE:	POSITION: on bulkhead
MOTOR:	TYPE: Rack
	NO:

CONTROL UNIT.

MAKE: Lucas
 TYPE: EB 106/2
 MODEL: Standard
 SERVICE NO: 37182
 POSITION ON VEHICLE: on bulkhead
 CUT-OUT SETTING: Cut in 12.7 / 13.3 Volts Cut out 8.5 / 11.0 Volts.

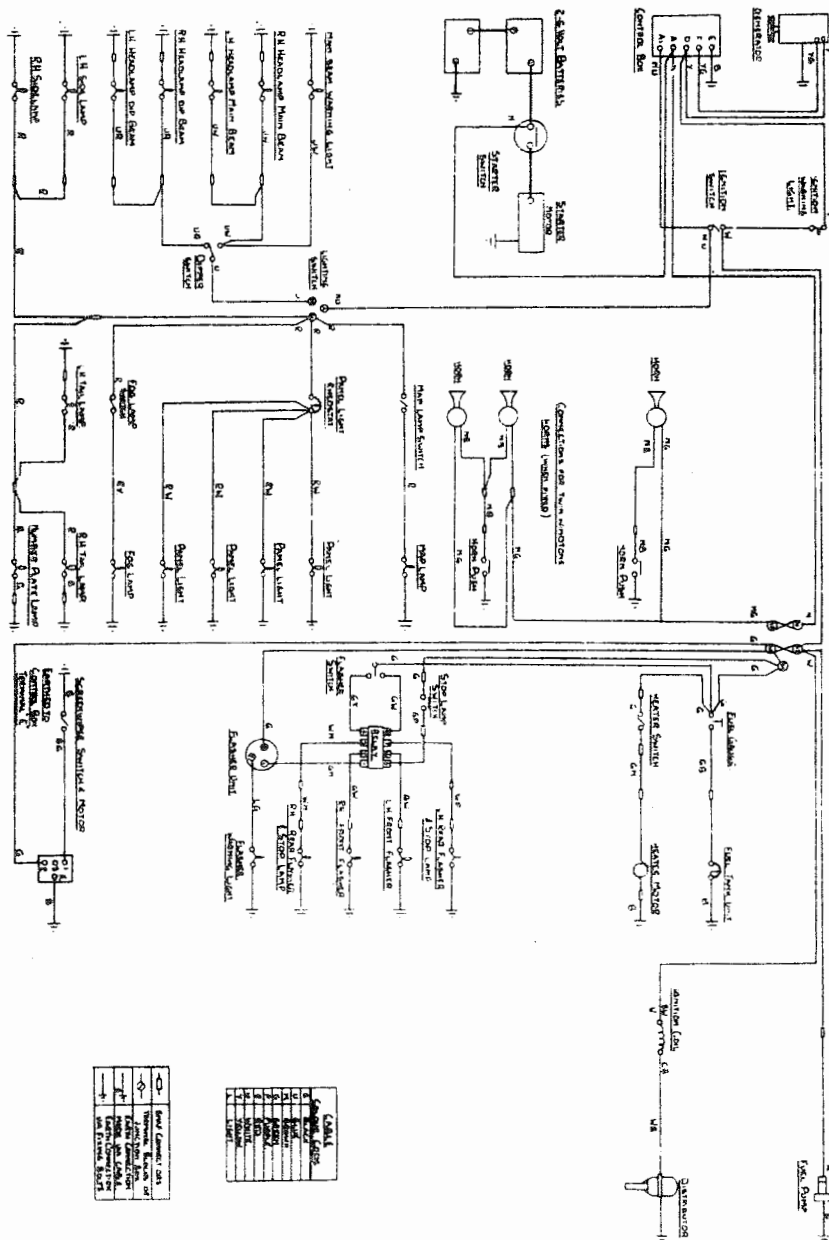
REGULATOR SETTING:	16 / 16.6 volts at	20	OF
	volts at		OF
	volts at		OF

Details of Modifications	Change Point	Note Reference
Issue to		Section 0. 5

ENGINEERING TECHNICAL DATA

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

- WIRING DIAGRAM -



Details of Modifications	Change Point	Note Reference
Issue		Section 0, 6