

LUCAS

Quality

EQUIPMENT

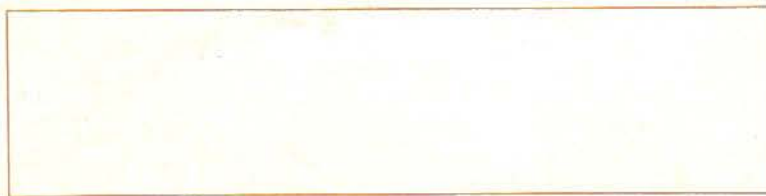


MOTOR-CYCLE EQUIPMENT DETAILS
AND SPARE PARTS FOR

SCOTT

596 c.c. FLYING SQUIRREL

1950



JOSEPH LUCAS LTD · BIRMINGHAM 19 · ENGLAND

LUCAS

ORIGINAL EQUIPMENT

SCOTT 596 c.c. FLYING SQUIRREL EQUIPMENT SPECIFICATION

UNIT	MODEL & TYPE	SERVICE No.	SERVED BY	REMARKS
DYNAMO	MC45L	20152A	20152A	Clockwise. A number of parts for this machine are supplied by Scott
REGULATOR	MCR2	37097A	37097A	
DISTRIBUTOR	DKX2A	40178D	40178D	Clockwise
LAMP, HEAD	SSU700P	50800D	50800D	
SWITCH, DIPPER	No. 99	38050I	38050I	
HORN	HF1234	70039A	069225F	
LAMP, TAIL	MT211	53056A	53056A	
HORN PUSH	4A	762080	762080	
COIL	6Q6	45016A	45016A	
BATTERY CARRIER	613/AV	585016	585016	
CABLES		99442I	99442I	

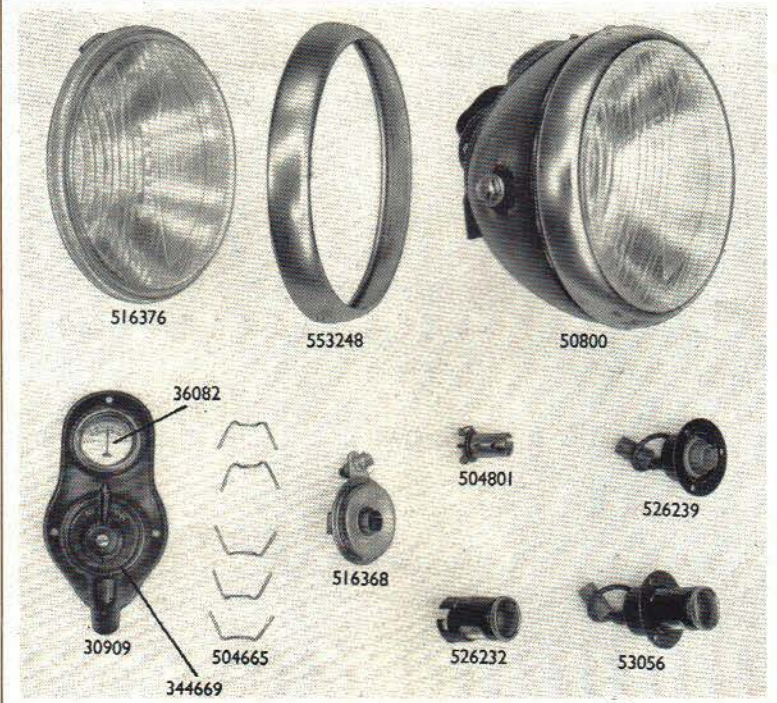


LUCAS SPARE PARTS

ILLUSTRATION	DESCRIPTION OF PART	ORDERING No.	
<p style="text-align: center;">229169 189297 188617 229150</p> <p style="text-align: center;">189295 229161 200079</p> <p style="text-align: center;">229165 229178 229154 229163</p>	DYNAMO, MC45L 20152 Cover, commutator end 229165 Brush set 229161 Bracket, commutator end 229154 Bearing, commutator end 189295 Oil seal 188617 Springs, set, brush 200079 Bearing, drive end 189297 Bracket, drive end 229163 Armature 229169 Coils, field 229150 Sundry parts, set 229178		
	<p style="text-align: center;">400051 400308 415729 410590 405588</p> <p style="text-align: center;">416627 404435 404374</p> <p style="text-align: center;">45016 408120 400415 496015 40178</p> <p style="text-align: center;">408474 400136</p>	COIL, Ignition, 6Q6 45016 Nut, H.T. terminal 408120 DISTRIBUTOR, DKX2A 40178 Plate 405588 Cover 400136 Brush and spring 404435 Rotor arm 400051 Contact set 400415 Condenser 400308 Cam 496015 Springs, auto advance 416627 Weights, auto advance 415729 Shaft and action plate 408474 Bearing bush, top 404374 Bearing bush, bottom 410590 Sundry parts, set 400843	
		<p style="text-align: center;">988 169 391454</p> <p style="text-align: center;">069225 200 391453 762080</p> <p style="text-align: center;">380501 701686 37097</p>	HORN, HFI234 069225 Bracket 701686 HORN PUSH, 4A 762080 REGULATOR, MCR2 37097 Cover 391454 Clip 391453 SWITCH, Dipper, No. 99 380501 BULBS Headlamp 169 Headlamp, pilot 988 Tail lamp 200



LUCAS SPARE PARTS

ILLUSTRATION	DESCRIPTION OF PART	ORDERING No.
 <p>516376 553248 50800</p> <p>36082</p> <p>30909 504665 344669</p> <p>504801 526239</p> <p>516368</p> <p>526232 53056</p>	<p>HEADLAMP, SSU700P</p> <p>Rim</p> <p>Wire, light unit fixing</p> <p>Panel</p> <p>Switch</p> <p>Ammeter</p> <p>Unit, light</p> <p>Bulb holder, double contact</p> <p>Backshell, with bulb holder</p> <p>LAMP, TAIL, MT2II</p> <p>Cover assembly</p> <p>Flange assembly</p>	<p>50800</p> <p>553248</p> <p>504665</p> <p>30909</p> <p>344669</p> <p>36082</p> <p>516376</p> <p>504801</p> <p>516368</p> <p>53056</p> <p>526232</p> <p>526239</p> <p>53056</p>



SERVICE NOTES AND TEST DATA

6 VOLT EQUIPMENT

DYNAMO

Two-pole design; compensated voltage control; clockwise rotation viewed from driving end.

Crossed connections will cause serious damage to the regulator. Connect lead with YELLOW IDENTITY TAG to main terminal, and GREEN AND BLACK TRACER CABLE to field terminal.

TEST DATA

Dynamo cold:

Cutting-in speed 750—850 r.p.m. at 6.5 dynamo volts.

Output 10 amps. at 1,250—1,400 r.p.m. at 7.0 dynamo volts, taken on 0.7 ohm resistance load without regulator. (Resistance must be able to carry 12 amps. without overheating).

Brush tension 16—20 ozs.

Field resistance 2.4—2.6 ohms.

DISTRIBUTOR

Clockwise rotation viewed from driving end.

Contact breaker gap .010"—.012".

Contact breaker spring tension 20—24 ozs. measured at contacts.

Condenser capacity .18—.23 microfarad.

TEST DATA

Centrifugal advance commences at 300—500 r.p.m. (distributor) and gives maximum advance of 17°—20° at 2,900 r.p.m.

IGNITION COIL

Current consumption: 1.0 amp. (approx.) running.
4.0 amps. (approx.) stall.

Coil moulding must be kept clean.

CONTROL BOX

Houses cut-out and dynamo voltage regulator.

TEST DATA

(a) Cut-out. Cut-in voltage 6.3—6.7 volts.
Drop-off voltage 4.5—5.0 volts.

- (b) Regulator. Setting at 10°C. (50°F.) 7.8—8.2 volts.
Setting at 20°C. (68°F.) 7.8—8.2 volts.
Setting at 30°C. (86°F.) 7.7—8.15 volts.
Setting at 40°C. (104°F.) 7.6—8.1 volts.

HEADLAMP

Correct lamp setting is important to prevent dazzle.

HORN

High-frequency type.

Current consumption 3.5—4.0 amps. (approx.).

BATTERY

Capacity 12 ampere hours at 10 hour rate.

The importance of carefully carrying out the initial charging cannot be overstressed as non-adherence to correct initial charging procedure will result in a considerably shortened service life of the battery.

First Charge: Some batteries have seals in the filler plug apertures and these should be carefully broken. Half fill each cell with dilute sulphuric acid of specific gravity 1.270. Allow battery to stand at least six hours and then add further sulphuric acid to bring the level in each cell to the top of the separators. Stand for a further two hours before applying the initial charge.

Initial charge rate 0.8 amperes for 50 hours.

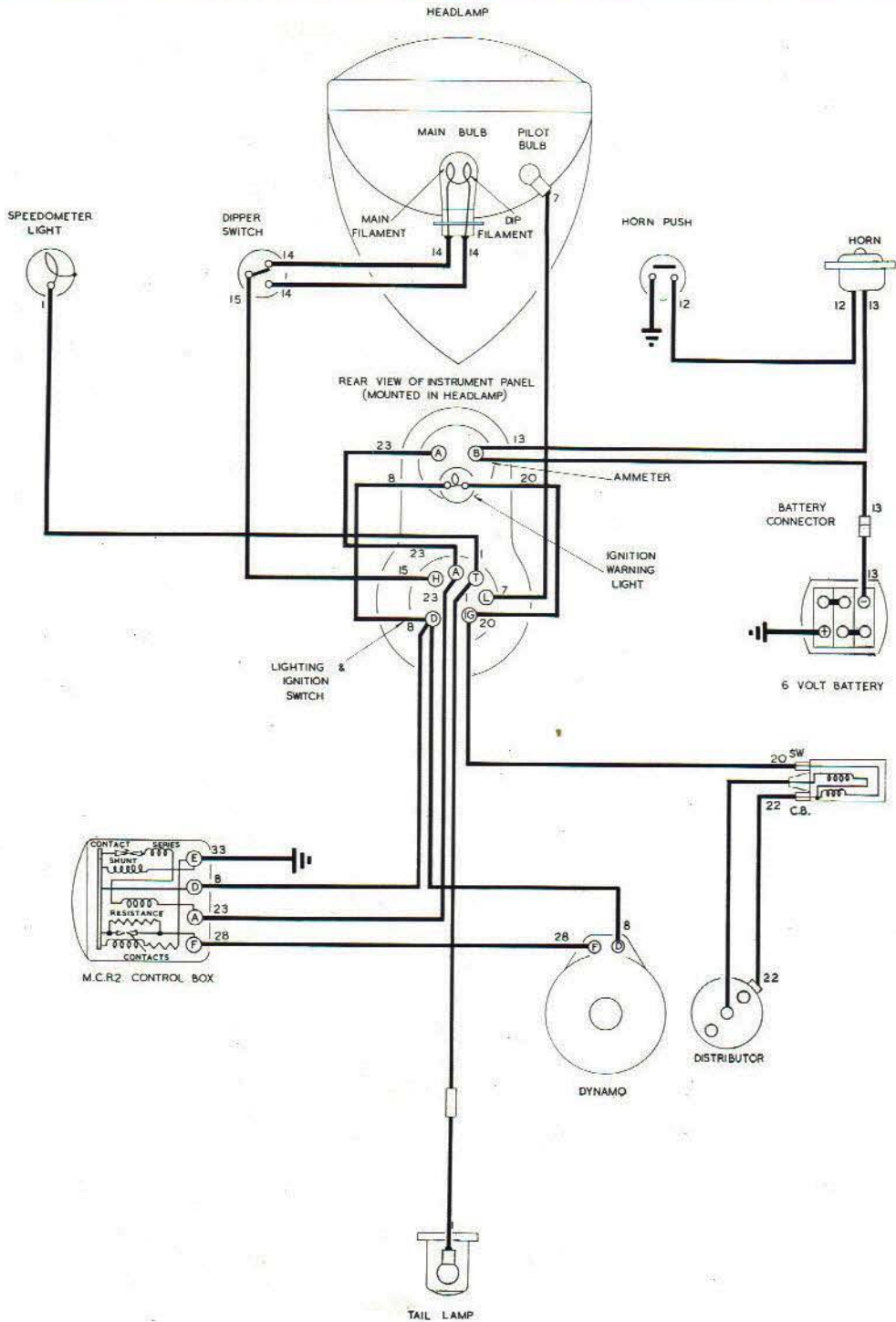
Correct the specific gravity of electrolyte to 1.280—1.300 at completion of charge when voltage and specific gravity remain constant.

The figures given are for climates where temperature is normally below 80°F. (27°C.).

For sub-tropical climates where temperatures range between 80°—100°F. (27°—38°C.) the appropriate figures are: Filling, 1.245; Fully charged, 1.250—1.270.

For tropical climates where temperatures are over 100°F. (38°C.) the figures are: Filling, 1.220; Fully charged, 1.220—1.240.

In service, the battery should be kept topped up to the level of the separators, using distilled water only, and terminals should be kept clean and connectors tight.



KEY TO CABLE COLOURS

1 RED	12 YELLOW & PURPLE	23 WHITE & PURPLE
2 RED & YELLOW	13 YELLOW & BLACK	24 WHITE & BLACK
3 RED & BLUE	14 BLUE	25 GREEN
4 RED & WHITE	15 BLUE & WHITE	26 GREEN & BROWN
5 RED & GREEN	16 BLUE & GREEN	27 GREEN & PURPLE
6 RED & BROWN	17 BLUE & BROWN	28 GREEN & BLACK
7 RED & BLACK	18 BLUE & PURPLE	29 BROWN
8 YELLOW	19 BLUE & BLACK	30 BROWN & PURPLE
9 YELLOW & BLUE	20 WHITE	31 PURPLE
10 YELLOW & GREEN	21 WHITE & GREEN	32 PURPLE & BLACK
11 YELLOW & BROWN	22 WHITE & BROWN	33 BLACK

WIRING DIAGRAM
No. W9442I
6-VOLT