

The Book of Lucas

The Grimoires of the Prince of Darkness



*Acolytes of The Book Of Lucas Use their
Powerful Knowledge to Restore Lighting
to This Elderly Lady's Norman Nippy*

*Including the Rites and Mysteries of the
lesser Deities AMAL, GIRLING, SMITHS, and others*

Compiled by Kim The CD Man
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Contents List ~ The 1st Edition Lucas CD

For those who have been attracted and captured by the dark magic of British motorcycles, this CD is a treasury containing the most arcane of knowledge ~ the darkest secrets of the Prince of Darkness himself, the awe inspiring LUCAS, together with the equally-mystifying lore of his dire lieutenants AMAL, GIRLING, and SMITHS, plus lesser deities.

If you have ever been frustrated by any of these diabolical entities, have spent abject hours in your workshop or by the roadside attempting to propitiate the Gods of British motorcycles– herein are the recipes, spells, and knowledge to tap the electrical, carburation, and suspension secrets of your British motorcycle.

Seriously now, this is a collection of Parts Lists, Workshop Manuals, specification sheets, and other useful data, all together on one CD for the first time. Such treasures as AMAL settings for almost all British bikes from 1933 to 1966, plus the later Concentrics, and Spare Parts lists for many of the models over the years. The Lucas files cover pretty much everything from 1936 to the 1970's, with Parts Lists, Maintenance and Repair Manuals and Technical Data sheets, and there is a SMITHS Parts List too which covers all the chronometric clocks and tachometer and speedo gearboxes from the 1950's to 1960's. I have also included data for other proprietary parts fitted to British bikes – Renolds, Girling, Champion.

You may have a Factory Parts and Workshop Manual for your motorcycle which covers the bike and its engine/gearbox, but does it list and illustrate all the “proprietary” electrical parts and the carburettors? Well, the “Lucas Grimoires” almost certainly will.

The most outstanding assistance in the compilation of this CD was given by **Phil Pilgrim of Union Jack Motorcycles** (Melbourne, Australia), who allowed me to copy his huge collection of Amal, Lucas, and Smiths lore. Please repay his dedication by buying your Triumph parts from Union Jack Motorcycles in Melbourne, Australia. See the UNION JACK Folder for details. (He is now onto me to start on his Vincent and Velocette collection – is there no rest??)

I also received some invaluable papers from Dennis Wright, who markets excellent reproductions of Lucas Magneto Tags. See HIS details in the Good Guys section too!!

Don't forget, if you like this CD we also do ones for BSA, NORTON, and TRIUMPH. Please contact us by e-mail at witepapr@techinfo.com.au, or fax +61 3 9457 3337, or write c/o 1 Simon Crt, Rosanna VIC 3084, Australia.

 The CD Man

IMPORTANT NOTE ON PRINTING

I have found that some customers have had trouble printing some of the pages on some of these files, where they either do not print at all or come out as “mirror images”. This is apparently caused by some sort of conflict with some HP drivers and Acrobat 5 reader. You can fix it by sending your files to your printer as “images”. Or, obtain the latest printer drivers and Acrobat Reader off the net. Most customers have not encountered the problem, however. Also note, some of the pages copied were not in the best of condition, and some pages may not be absolutely perpendicular to the page edges. Sorry, can't always be helped! The information therein is still OK.

AMAL

File Title	Description	Ref Number (if present), or Notes
Amal_351	Spare parts List, illustrated, undated but may be April 1938	List No 351 W 4/38 3,000
Amal_456R	Parts List for Type 308 carb.	List 456R, est 1949
Amal_Oct_1950	Illustrated Price List for 1950 carbs, Type J, S, M, and for Villiers autocycles	<i>This doc is rather battered, but mostly legible</i>
Amal_417R	Illustrated Spare Parts List for RN Carbs	List No 417R, est 1949
Amal_441S	Illustrated Spare Parts List for TT Carburettors	List No 441S, est 1950
Amal_A449	Illustrated Spare Parts List for TT9 Carb, with Type 302 Float Chamber	List No A449, est 1951
Amal_451	Illustrated Spare Parts List for Type 27 Carburettors	List No 451
Amal_A463	Parts List for Type 308 carb.	List A463, est 1951
Amal_A453	Parts List for Type 223 carb.	List A45 3, est 1951
Amal_A464	Settings and Spares List for Types 159, 259, & 359 carbs.	List No A464 Est date 1952, undated.

Amal_A465	Parts List for Type 261 and 361 carb.	List A465, est 1952
Amal_470	Parts List for GP Racing Carburettor	List 470, July 1955
Amal_502	Spare parts List for Series 375, 376, 389 Monobloc Carburettors	List 502, issue 3, est 1955
Amal_503	Parts List for Monobloc Type carb.	List 503, issue 3, June 1955
Amal_104_2	Parts List for GP Racing Carburettor	List 104/2, August 1960
Amal_117_2	Spare parts List for Series 600 and Series 900 Carburettors	List 117/2, issue 1, Aug 1966
Amal_117_3	Hints and Tips for Series 600 and Series 900 Carburettors	List 117/3, issue 5
Amal Monobloc	Illustrated Parts List, general information, and Technical drawings for the Monobloc Carburettor	List 102/2 – issue 2 May 1964
Amal Mk2 Concentric_1	Mk2 Concentric Fitting & Tuning Instructions	
Amal Mk2 Concentric_2	Mk2 Concentric Parts List & Settings for petrol and alcohol fuels	
Amal Mk2 Concentric_3	Mk2 Concentric Illustrated Parts List	<i>Appears to be part of a catalogue from a company called Wassell. Very complete Listing for the various Concentric carbs</i>
Amal_394	Amal Settings Lists for 1933 to 1939 carburettors	Lists 394, 394/36, 407, 416, A418
Amal_1940_1954	Complete Carburettor settings and Spare Parts List summary for British and overseas motorcycle engines, bicycle power units, etc. 1940-1954	List 601/2 Issue 1, Aug 1961. Supersedes List No 440. <i>The pages in this list were too big for my scanner, so each page has been copied in two halves. If you want to see the whole page in its entirety, print it out and tape them together.</i>
Amal_1955_1961	Complete Carburettor settings and Spare Parts List summary for British and overseas motorcycle engines, bicycle power units, etc. 1955-1961	List 601/3 Issue 2, Sept 1960 Supersedes List No 523. <i>The pages in this list were too big for my scanner, so each page has been copied in two halves. If you want to see the whole page in its entirety, print it out and tape them together.</i>
Amal_1962_1966	Complete Carburettor settings and Spare Parts List summary for British and overseas motorcycle engines, bicycle power units, etc. 1962-1966	List 601/4 Issue 4, Sept 1966 <i>The pages in this list were too big for my scanner, so each page has been copied in two halves. If you want to see the whole page in its entirety, print it out and tape them together.</i>

Champion

Champion_1

Extract from the 1981/82 Champion Catalogue, listing all the classic bikes and the recommended Champion plug for each bike.

GIRLING

Girlinging_1

Parts List for Girling suspension units fitted to all bikes from mid-1950's to 1965. Has parts listings, specifications, spring rates, colour codes

Publication CBE/2M
Printed June 1965

LUCAS

File Title	Description	Lucas Reference Numbers
Lucas Maint	Maintenance Instructions for Lucas AC Lighting Equipment	1093D, L755/D, LF/1155D
Lucas Parts_716	Lucas Equipment Details for all British models. Appears to cover all major British models from 1936 to 1950	Cat 716. L/851/L
Lucas Parts 1936-1957	Lucas Equipment Details for all British models from 1936 to 1957	716A
Lucas Parts 1958-1962	Lucas Equipment Details for all British models from 1958 to 1962	---
Lucas Parts_1951_to_1953.	Lucas Equipment Details for all British models. 1951 to 1953	921/53
Lucas Parts 1949_1956	Lucas Equipment Details for British and Indian models. 1949 to 1956	841K/EX
Lucas SR Magnetos	Complete Parts List and Illustrated Guide to these Lucas magnetos	718 undated
Lucas Parts_1947c	Lucas Equipment Details for all British models. Appears to cover all major British models immediate post-war, c1947. Lovely lithographic illustrations of magnetos, mag-dynos, dynamos, cycle parts, plus lots of circuit diagrams. Great book.	AMC3 Note: if anyone can date this exactly, let me know!
Lucas Data_1948_Pub 771	Service data for British Motorcycles, 1948	771, F/57/H, May 1948
Lucas Parts_1949 Ariel	Lucas Equipment Details for all Ariel models. 1949	CE490, Jan 1950
Lucas Parts_1949 BSA_Sunbeam	Lucas Equipment Details for all Sunbeam models. 1949	CE507, March 1949
Lucas Parts_1949 Enfield	Lucas Equipment Details for all Enfield models. 1949	CE491, April 1950
Lucas Parts_1949 Triumph	Lucas Equipment Details for all Triumph models. 1949	CE493
Lucas_BSA_1950.	Lucas Equipment Details for all BSA models. 1950	CE591, Dec 1950
Lucas Parts 1950 AJS	Lucas Equipment Details for all 1950 AJS/Matchless models	CE592, Jan 1951
Lucas -1950-S	Elektriska Utrustningar Och Reservdelar for Motorcyklar, Amerikanska gummi aktiebolaget. <i>This is a Swedish manual. Title translates to "Electric equipment and spare parts for motorcycles, American Rubber Ltd</i>	--
Lucas Parts_1949_Norton	Lucas Equipment Details for all Norton models. 1949	CE503
Lucas Parts_1950 Triumph	Lucas Equipment Details for all Triumph models. 1950	CE599
Lucas Parts_1951	Lucas Equipment Details for all British models. 1951	SB428
Lucas Parts_1951_Supplement	Supplement for above	921/51

Lucas Workshop L-5A 1953	Lucas Workshop Instructions for Magnetos, models N1, KN1, KIF, K2F, KVF	Section L-5, Part A, extract from Publication 727, Issue 1, Jan 1953
Lucas Workshop Spares 1953	Spare parts List extract from Lucas Workshop Instructions 727 for 1953 Magnetos, plus Servicing Instructions for older magneto types	Sections L & M, extract from Publication 727 Issue 1, June 1953
Lucas Workshop A 1953	Lucas Workshop Instructions for Electric Horns, models HF 1234-1235	Section L-7, Part A, extract from Publication 727, Issue 1, June 1953
Lucas Workshop KF_N 1953	Lucas Workshop Instructions for KF & N Magnetos	Section D, extract from Publication 727, Dec 1953
Lucas Workshop Remagnetising	Lucas Workshop Instructions for remagnetising magnetos	
Lucas Parts_1954_AMC	Lucas Equipment Details for all British AMC models. 1954	CE825
Lucas Parts_1954_Enfield	Lucas Equipment Details for all Enfield models. 1954	CE826
Lucas Parts_1954_P M	Lucas Equipment Details for all P & M (Panther) models. 1954	CE829
Lucas Parts_1954_Triumph	Lucas Equipment Details for all Triumph models. 1954	CE830
Lucas Parts_1955_AMC	Lucas Equipment Details for all British AMC models. 1955	CE825 Different to above 1954 doc
Lucas Parts_1955_Ariel	Lucas Equipment Details for all Ariel models. 1955	CE827
Lucas Parts_1955_BSA_Sunbeam	Lucas Equipment Details for all BSA_Sunbeam models. 1955	CE824
Lucas Parts_1955_Enfield	Lucas Equipment Details for all Enfield models. 1955	CE826
Lucas Parts_1955_Norton	Lucas Equipment Details for all Norton models. 1955	CE828
Lucas Parts_1955_Panther.	Lucas Equipment Details for all Panther models. 1955	CE829
Lucas Parts_1955_Triumph	Lucas Equipment Details for all Triumph models. 1955	CE830
Lucas Parts_1956_AMC	Lucas Equipment Details for all British AMC models. 1956	CE1242A
Lucas Parts_1956_Ariel	Lucas Equipment Details for all Ariel models. 1956	CE1244A
Lucas Parts_1956_BSA_Sunbeam	Lucas Equipment Details for all BSA_Sunbeam models. 1956	CE824A
Lucas Parts_1956_Enfield	Lucas Equipment Details for all Enfield models. 1956	CE826A
Lucas Parts_1956_Norton	Lucas Equipment Details for all Norton models. 1956	CE828A
Lucas Parts_1956_Panther.	Lucas Equipment Details for all Panther models. <i>No pictures.</i> 1956	CE1246A
Lucas Parts_1956A_Panther.	Lucas Equipment Details for all Panther models. <i>Illustrated.</i> 1956	CE829A <i>different to above</i>
Lucas Parts_1956_Triumph	Lucas Equipment Details for all Triumph models. 1956	CE830A

Lucas Parts_1957_AMC	Lucas Equipment Details for all British AMC models. 1957	CE825B
Lucas Parts_1957_Ariel	Lucas Equipment Details for all Ariel models. 1957	CE1244B
Lucas Parts_1957_BSA_Sunbeam	Lucas Equipment Details for all BSA_Sunbeam models. 1957	CE824B
Lucas Parts_1957_Enfield	Lucas Equipment Details for all Enfield models. 1957	CE826B
Lucas Parts_1957_Norton	Lucas Equipment Details for all Norton models. 1957	CE828B
Lucas Parts_1957_Panther.	Lucas Equipment Details for all Panther models. 1957	CE829B
Lucas Parts_1957_Triumph	Lucas Equipment Details for all Triumph models. 1957	CE830B
Lucas Parts_1957.	Lucas Equipment Details for all British models. 1957	841K/EX
Lucas Parts_1958.	Lucas Equipment Details for all British models. 1958	841K/EX
Lucas Parts_1958_AMC.	Lucas Equipment Details for all AMC models. 1958	CE825C
Lucas Parts_1958_Ariel	Lucas Equipment Details for all Ariel models. 1958	CE827C
Lucas Parts_1958_BSA	Lucas Equipment Details for all BSA models. 1958	CE824C
Lucas Parts_1958_Enfield	Lucas Equipment Details for all 1958 Enfield models. <i>Incl. supplements for new Constellation, Meteor, Crusader.</i>	CE826C
Lucas Parts_1958_Indian	Lucas Equipment Details for all Indian models. 1958	CE1380B
Lucas Parts_1958_Morgan	Lucas Equipment Details for Morgan carss. 1958	CE855B
Lucas Parts_1958_Norton	Lucas Equipment Details for all Norton models. 1958	CE828C
Lucas Parts_1958_Panther.	Lucas Equipment Details for all Panther models. 1958	CE829C
Lucas Parts_1958_Triumph	Lucas Equipment Details for all Triumph models. 1958	CE830C
Lucas Workshop 1959	Lucas Workshop Instructions for horns, maggies, dynamo etc. Some of this is elsewhere, some is totally new,.	CZ1259/D Various sections have different dates, from 1953 to 1960
Lucas Parts_1959	Lucas Equipment Details for all British models. 1959	841/59/MC
Lucas Price_1959	Lucas (Aust) Master Price List all Electrical Equipment	Aust Master Price List LML-5, Sept 1960
Lucas Parts_1959_BSA	Lucas Equipment Details for all BSA models. 1959	CE824D
Lucas Parts_1959a_Enfield	One page supplement for Enfield 148cc <i>Prince</i>	CE826D
Lucas Parts_1959_Norton	Lucas Equipment Details for all Norton models. 1959	CE828D

Lucas Parts_1959_Triumph	Lucas Equipment Details for all Triumph models. 1959	CE830D
Lucas Price_1960	Lucas (Aust) Master Price List AMENDMENTS to LML-5 of 1959	Amendments to Aust Master Price List LML-5, Sept 1960
Lucas Parts_1960_ALL	Lucas Equipment Details for ALL British Motor Cycles, 1960	841/60/MC Jan 1961 <i>Note: the covers were in red and gold, and have been omitted as they were impossible to scan well.</i>
Lucas Parts_1960_AMC	Lucas Equipment Details for all AMC models. 1960	CE825E
Lucas Parts_1960_Ariel	Lucas Equipment Details for all Ariel models. 1960	CE827E
Lucas Parts_1960_Norton	Lucas Equipment Details for all Norton models. 1960	CE828E
Lucas Parts_1960_Triumph	Lucas Equipment Details for all Triumph models. 1960	CE830E
Lucas Parts_1961_ALL	Lucas Equipment Details for ALL British Motor Cycles, 1961	841/61/MC Dec1961 <i>Note: the covers were in red and gold, and have been omitted as they were impossible to scan well.</i>
Lucas Parts_1961_Triumph	Lucas Equipment Details for all Triumph models. 1961	CE830F
Lucas Parts_1962_ALL	Lucas Equipment Details for ALL British Motor Cycles, 1962	841/62/MC Oct 1962 <i>Note: the covers were in red and gold, and have been omitted as they were impossible to scan well.</i>
Lucas Parts_1962 BSA INDUST	Lucas Equipment Details for all BSA Industrial Engines. 1962	CE1402D
Lucas Parts_1962 BSA	Lucas Equipment Details for all BSA models incl. scooters. 1962	CE824G
Lucas Parts_1963_ALL_Foreign <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>	Lucas Equipment Details for ALL British Motor Cycles, 1963	841/63/MC June 1964 <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>
Lucas Parts_1963_Enfield	Lucas Equipment Details for all 1963 Enfield models	CE826/63
Lucas Parts_1963_Triumph	Lucas Equipment Details for all Triumph models. 1963	CE830/63
Lucas Parts_1964	Lucas Equipment Details for all British models. 1964	841/64/MC
Lucas Parts_1964_ALL_Foreign <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>	Lucas Equipment Details for ALL British Motor Cycles, 1964	841/64/MC Feb 1965 <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>
Lucas Parts_1964_AMC.	Lucas Equipment Details for all AMC models. 1964	CE825/64. <i>This file includes not just AJS/Matchless but Norton, James, and Francis Barnett</i>
Lucas Parts_1964 ARIEL_ BSA	Lucas Equipment Details for all Ariel & BSA models incl. scooters. 1964	CE824/64
Lucas Parts_1964_Triumph	Lucas Equipment Details for all Triumph models. 1964	CE830/64

Lucas Parts_1965 ARIEL_ BSA	Lucas Equipment Details for all Ariel & BSA models incl. scooters. 1965	CE824/65
Lucas Parts_1966_ALL_Foreign <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>	Lucas Equipment Details for ALL British Motor Cycles, 1966	841/66/MC Aug 1966 <i>Note: This Edition is in French, German, Italian, Portuguese, Spanish, and Dutch</i>
Lucas Girling 1960-1968	Parts List for all bikes fitted with Lucas electrical equipment and Girling suspension units between 1960 and 1968	
Lucas Girling Parts_1966_AMC	Lucas Equipment Details for all AMC models. 1966	CE825/66. <i>This file includes not just AJS/Matchless but Norton, James, and Francis Barnett</i>
Lucas Girling Parts_1966_BSA	Lucas Equipment Details for all BSA models. 1966	CE824/66.
Lucas Parts_1966_Triumph	Lucas Equipment Details for all Triumph models. 1966	CE830/66
Lucas Alt Serv Manual 66	Lucas Motorcycle Alternator Workshop Manual, 1966	SB519 GZ/766/L
Lucas Girling Parts_1967_BSA	Lucas Equipment Details for all BSA models. 1967	CE824/67.
Lucas Parts_1967_Triumph	Lucas Equipment Details for all Triumph models. 1967	CE830/67
Lucas Test_Cards	<ul style="list-style-type: none"> • Lucas Test Card #4 for 12volt motorcycle systems, 1969 • Lucas Test Card #5 for all 1971 British models fitted with Electrical Components Box 	If anyone has the missing Test Cards from this file I would love to get a copy from you!
Lucas Parts_1969_Triumph	Lucas Equipment Details for all Triumph models. 1969	CE830/69
Lucas Parts_1971_Triumph	Lucas Equipment Details for all Triumph models. 1971	LSS/103/71
Lucas Service Manual 1971	Lucas Service Manual, covers all Lucas equipment fitted to all the 1971 British bikes, right down to starter motors, switches, and wiring diagrams.	Dated 1971
Lucas_1981	Lucas Price List for General and Electrical Equipment, 1981	LS772, A12
Lucas Powerbase	Advertising pamphlet for the Powerbase High Output 3 Phase Alternator kit. Has a little graph showing performance.	

Renold

Renold 1946-58

Renold chain catalogue and listings for every major and some minor bikes during these years, showing what was the correct “original” chains fitted.

Renold 1958-70

Renold chain catalogue and listings for every major and some minor bikes during these years, showing what was the correct “original” chains fitted.

Renold 1960-72

Renold chain catalogue and listings for every major and some minor bikes during these years, showing what was the correct “original” chains fitted.

Renold Golden Years

Another catalogue, but just the well-known marques, early 1950’s to 1972.

SMITHS

Smiths_1

SMITHS Motorcycle Equipment Parts List and catalogue from 1954 to 1958.

Smiths_2

This is a series of lists and catalogues from a New South Wales company, KTT Services, which specialised in rebuilding Smiths instruments. As far as I can tell the company has ceased trading, but the information in the pages are very interesting, showing lots of different models and parts. There is also some correspondence between KTT and Union Jack Motorcycles which sheds light on essential maintenance needed to keep your Smiths clock happy.

Smiths Speedo

This is a really good article on how a Smiths Chromometric speedo works, and why it is so good. The article was written by Dennis Wright (see the Good Guys folder on this CD for more about Dennis) and is reproduced here with his permission.