Enternance **LOTUS ELAN** RESTORATION GUIDE By Gordon Lund



Advice on selecting and purchasing a suitable car for restoration. Practical information on bodywork, trim, chassis, suspension, transmission, engine, hydraulics, electrics and wiring etc. Chapters on: Elan developments, the Elan +2 Estate plus the rebirth of an accident damaged Sprint. Details of bringing an Elan +2 and Elan Sprint to concours condition

www.brooklands-books.com

ROAD TEST SERIES

Abarth Road Test Portfolio 1950-1971 AC Cars 1904-2009 AC & Cobra 1962-2011 Alfa Romeo Giulietta Gold Portfolio 1954-1965 Alfa Romeo Giulia Berlina Lim. Edit. Extra 1962-76 Alfa Romeo Giulia Coupes Lim. Edit. Ultra 1973-76 Alfa Romeo Alfasud 1972-1984 Alfa Romeo Spider Ultimate Portfolio 1966-1994 Alfa Romeo Spider & GTV Perf. Port. 1995-2005 Allard Limited Edition Ultra Alpine Renault Ultimate Portfolio 1958-1995 Alvis Gold Portfolio 1919-1967 AMC Rambler Limited Edition Extra 1956-1969 AMX & Javelin Gold Portfolio 1968-1974 Armstrong Siddeley Gold Portfolio 1945-1960 Aston Martin Gold Portfolio 1921-1947 Aston Martin Ultimate Portfolio 1948-1968 Aston Martin Ultimate Portfolio 1968-1980 Aston Martin Ultimate Portfolio 1981-1993 Aston Martin Ultimate Portfolio 1994-2006 Auburn Cord Duesenberg – A Brooklands Portfolio Audi Quattro Gold Portfolio 1980-1991 Audi TT Performance Portfolio 1998-2006 Austin Seven & Ten Road Test Portfolio

Austin-Healey 100 & 100/6 Gold Port. 1952-1959 Austin-Healey 3000 Ultimate Portfolio 1959-1967 Austin-Healey Sprite Gold Portfolio 1958-1971 Bentley & Rolls-Royce Portfolio 1990-2002 BMW 6 & 8 Cyl. Cars Limited Edition 1935-1960 BMW 700 Limited Edition 1959-1965 BMW 1600 Collection No. 1 1966-1981 BMW 2002 Ultimate Portfolio 1968-1976 BMW 6 Cylinder Coupes & Saloons Gold P. 1969-1976 BMW 316, 318, 320 (4 cyl.) Gold Port. 1975-1990 BMW 320, 323, 325 (6 cyl.) Gold Port. 1977-1990 BMW 3 Series Gold Portfolio 1991-1997 BMW M3 Ultimate Portfolio 1986-2006 BMW M5 Gold Portfolio 1980-2003 BMW 5 Series Gold Portfolio 1988-1995 BMW 6 Series Ultimate Portfolio 1976-1989 BMW 7 Series Performance Portfolio 1977-1986 BMW 7 Series Performance Portfolio 1986-1993 BMW 8 Series Performance Portfolio BMW X5 Limited Edition Extra 1999-2006 BMW Alpina Performance Portfolio 1967-1987 BMW Alpina Performance Portfolio 1988-1998 BMW Z3, M Coupe & M Roadster Gold Port. 1996-02 Bond Cars 1949-1974 Road Test Portfolio Borgward Isabella Limited Edition **Bristol Cars Portfolio** Bugatti Type 10 to Type 251 Road Test Portfolio Buick Performance Portfolio 1947-1962 Buick Muscle Portfolio 1963-1973 Buick Riviera Performance Portfolio 1963-1978 Cadillac Performance Portfolio 1948-1958

Cadillac Performance Portfolio 1959-1966 Cadillac Eldorado Performance Portfolio 1967-1978 Cadillac Allante Limited Edition Extra Caterham Seven Road Test Portfolio 1974-1999 Caterham Seven Road Test Portfolio 2000-2010 Checker Automobiles Road Test Portfolio Impala & SS Muscle Portfolio 1958-1972 Corvair Performance Portfolio 1959-1969 El Camino & SS Muscle Portfolio 1959-1987 Chevy II & Nova SS Gold Portfolio 1962-1974 Chevelle & SS Gold Portfolio 1964-1972 Camaro Muscle Portfolio 1967-1973 Blazer & Jimmy Limited Edition Extra 1969-1982 Blazer & Jimmy Limited Edition Extra 1983-1994 Camaro Performance Portfolio 1993-2000 Chevrolet Caprice Road Test Portfolio 1965-1990 Chevrolet Corvette Gold Portfolio 1953-1962 Chevrolet Corvette Sting Ray Gold Port. 1963-1967 Chevrolet Corvette Gold Portfolio 1968-1977 Chrysler Imperial Gold Portfolio 1951-1975 Valiant 1960-1962 PT Cruiser Performance Portfolio Citroen Traction Avant Limited Edition Premier Citroen 2CV Ultimate Portfolio 1948-1990 Citroen DS & ID 1955-1975 Citroen DS & ID Gold Portfolio 1955-1975 Citroen SM Limited Edition Extra 1970-1975 Citroen CX Road Test Portfolio Shelby Cobra Gold Portfolio 1962-1969 Crosley & Crosley Specials Limited Edition Cunningham Automobiles 1951-1955

Damlier SP250 Dart & V-8 2.5 litre 250 RTP 1959-69 Datsun Roadsters Performance Portfolio 1960-71 Datsun 240Z & 260Z Road Test Portfolio Datsun 280Z & 280ZX Road Test Portfolio **Delahaye Road Test Portfolio Delage Road Test Portfolio** DeLorean Gold Portfolio 1977-1995 De Soto Limited Edition 1952-1960 Dodge Limited Edition 1949-1959 Dodge Dart Limited Edition Extra 1960-1976 Dodge Muscle Portfolio 1964-1971 Charger Muscle Portfolio 1966-1974 Elva Sports Racers Road Test Portfolio ERA Gold Portfolio 1934-1994 Facel Vega Limited Edition Extra 1954-1964 Ferrari Road Cars 1946-1956 Road Test Portfolio Ferrari Dino Limited Edition Extra 1965-1974 Ferrari 308 & Mondial Ultimate Portfolio 1975-85 Ferrari 328 348 Mondial Ultimate Portfolio 1986-94 Ferrari F355 & 360 Gold Portfolio 1995-2004 Fiat 500 1936-1972 Road Test Portfolio Fiat Dino Road Test Portfolio Fiat 124 Spider Performance Portfolio 1966-1985 Fiat Abarth 1972-1987 Road Test Portfolio Fiat X1/9 Gold Portfolio 1973-1989 Fiat Barchetta Road Test Portfolio Ford Zephyr, Zodiac, Executive Mk. III & IV 1962-1971 High Performance Capris Gold Portfolio 1969-1987 Capri Muscle Portfolio 1974-1987 High Performance Fiestas 1979-1991 Ford Escort RS & Mexico Limited Edition 1970-1979

High Performance Escorts Mk. II 1975-1980 High Performance Escorts 1980-1985 High Performance Escorts 1985-1990 Ford Thunderbird Performance Portfolio 1955-1957 Ford Thunderbird Performance Portfolio 1958-1963 Ford Thunderbird Performance Portfolio 1964-1976 Ford Fairlane Performance Portfolio 1955-1970 Ford Ranchero Muscle Portfolio 1957-1979 Ford Galaxie & LTD Gold Portfolio 1960-1976 Falcon Performance Portfolio 1960-1970 Ford GT40 & GT Ultimate Portfolio 1964-2006 Ford Torino Performance Portfolio 1968-1974 Ford Bronco 4x4 Performance Portfolio 1966-1977 Ford Bronco 1978-1988 Shelby Mustang Ultimate Portfolio 1965-1970 Mustang Muscle Portfolio 1967-1973 High Performance Mustang IIs 1974-1978 Mustang 5.0L Muscle Portfolio 1982-1993 Ginetta Cars Limited Edition Ultra 1958-2007 Goggomobil Limited Edition Hispano-Suiza Road Test Portfolio Honda - Acura NSX Ultimate Portfolio 1989-2005 Honda CRX 1983-1987 Honda S2000 Performance Portfolio 1999-2008 Hudson Performance Portfolio 1946-1957 International Scout Gold Portfolio 1961-1980 Isetta Gold Portfolio 1953-1964 ISO & Bizzarrini Limited Edition Ultra 1962-1974 Jaguar and SS Gold Portfolio 1931-1951 Jaguar XK120 • 140 • 150 Gold Portfolio 1948-1960 Jaguar Mk 7, 8, 10 & 420 Road Test Portfolio

Jaguar Mk 1 & Mk 2 1955-1969 Road Test Portfolio Jaguar C-Type & D-Type Gold Portfolio 1951-1960 Jaguar E-Type Ultimate Portfolio 1961-1975 Jaguar XJ6 Series I & II Gold Portfolio 1968-1979 Jaguar XI6 Series III Perf. Portfolio 1979-1986 Jaguar XJS Gold Portfolio 1975-1988 Jaguar XJ-S V12 Ultimate Portfolio 1988-1996 Jaguar XK8 & XKR Performance Portfolio 1996-2005 leep CI-5 Limited Edition 1960-1975 Jeep CJ-5 & CJ-7 4x4 Perf. Portfolio 1976-1986 Jeep Wagoneer Performance Portfolio 1963-1991 Jeep J-Series Pickups 1970-1982 Jeepster & Commando Limited Edition 1967-1973 Jeep Cherokee & Comanche Pickups P. P. 1984-91 leep Wrangler 4x4 Performance Portfolio 1987-99 Jeep Cherokee & Grand Cherokee 4x4 P. P. 1992-98 Jensen Road Test Portfolio 1934-1965 Jensen Interceptor Ultimate Portfolio 1966-1992 Jensen – Healey Road Test Portfolio 1972-1976 Kaiser – Frazer Limited Edition 1946-1955 Lagonda Gold Portfolio 1919-1964 Lancia Aurelia & Flaminia Gold Portfolio 1950-1970 Lancia Fulvia Gold Portfolio 1963-1976 Lancia Beta Gold Portfolio 1972-1984 Lancia Montecarlo & Scorpion 1975-1982 RTP Lancia Stratos Limited Edition Extra Lancia Delta & integrale Ultimate Portfolio Land Rover Series I, II & IIA Gold Portfolio 1948-71 Land Rover Series III 4x4 Perf. Portfolio 1971-1985 Land Rover 90 110 Defender Gold Portfolio 1983-94 Land Rover Discovery Perf. Port. 1989-2000

Lamborghini Performance Portfolio 1964-1976 Lamborghini Performance Portfolio 1977-1989 Lamborghini Gold Portfolio 1990-2004 Lincoln Gold Portfolio 1949-1960 Lincoln Continental Performance Portfolio 1961-1969 Lincoln Continental 1969-1976 Lola Sports Racing Cars Lim. Ed. Premier 1958-1985 Lotus Sports Racers Portfolio - covering 1951-1965 Lotus Seven Gold Portfolio 1957-1973 Lotus Elite Limited Edition 1957-1964 Lotus Elan Ultimate Portfolio 1962-1974 Lotus Cortina Road Test Portfolio Lotus Elite & Exlat Road Test Portfolio 1984-1972 Lotus Excel Road Test Portfolio Lotus Europa Gold Portfolio 1966-1975 Lotus Elise & Exige Gold Portfolio 1995-2005 Marcos Coupés & Spyders Gold Portfolio 1960-1997 Maserati Cars Performance Portfolio 1957-1970 Maserati Cars Performance Portfolio 1971-1982 Maserati Cars Performance Portfolio 1982-1998 Maserati Cars Ultimate Portfolio 1999-2007 Mazda Miata MX-5 Performance Portfolio 1989-1997 Mazda Miata MX-5 Performance Portfolio 1998-2005 Mazda Miata MX-5 Takes On The Competition McLaren F1 • GTR • LM Sportscar Perf. Portfolio Mercedes-Benz 1925-1939 – A Portfolio Mercedes 190SL 300SL 300SLR - A Portfolio Mercedes S & 600 Limited Edition Extra 1965-1972 Mercedes S Class 1972-1979 Mercedes S Class Limited Edition Extra 1980-1991 Mercedes 230SL 250SL 280SL Ultimate Port. 1963-71

Mercedes-Benz SLs & SLCs Ultimate Port. 1971-89 Mercedes SLs Performance Portfolio 1989-1994 Mercedes E-Class W124 Road Test Portfolio 1986-1995 Mercedes G-Wagen Gold Portfolio 1981-2005 Mercedes 190 Limited Edition Extra 1983-1993 Mercedes AMG Gold Portfolio 1983-1999 Mercedes AMG Ultimate Portfolio 2000-2006 Mercury Gold Portfolio 1947-1966 Mercury Comet & Cyclone Lim. Edit. Extra 1960-75 Cougar Muscle Portfolio 1967-1973 Messerschmitt Gold Portfolio 1954-1964 MG Gold Portfolio 1929-1939 MG TA & TC Gold Portfolio 1936-1949 MG TD & TF Gold Portfolio 1949-1955 MG Y Type & Magnette Road Test Portfolio MGA & Twin Cam Gold Portfolio 1955-1962 MG Midget Road Test Portfolio 1961-1979 MGB Roadsters 1962-1980 MGB MGC & V8 Gold Portfolio 1962-1980 MGC & MGB GT V8 Limited Edition MGF & TF Performance Portfolio 1995-2005 Mini Gold Portfolio 1959-1969 Mini Gold Portfolio 1969-1980 Mini Gold Portfolio 1981-1997 High Performance Minis Gold Portfolio 1960-1973 Mini Cooper Gold Portfolio 1961-1971 Mini Moke Ultimate Portfolio 1964-1994 Mini Performance Portfolio 2001-2006 Starion & Conquest Performance Portfolio 1982-90 Mitsubishi 3000GT & Dodge Stealth P.P. 1990-99 Morgan Three-Wheelers Ultimate Portfolio 1909-52

Morgan Four-Wheelers Ultimate Portfolio 1936-67 Morgan Ultimate Portfolio 1968-1990 Morgan Ultimate Portfolio 1991-2009 Morris Minor MM & Series II Road Test Portfolio Morris Minor 1000 Road Test Portfolio Nash Limited Edition Extra 1949-1957 Nash-Austin Metropolitan Gold Portfolio 1954-1962 Nissan Skyline GT-R Ultimate Portfolio 1969-2010 Noble Sports Cars Road Test Portfolio NSU Ro80 Limited Edition Oldsmobile 1948-1963 Limited Edition Premier Oldsmobile Muscle Portfolio 1964-1971 Cutlass & 4-4-2 Muscle Portfolio 1964-1974 Opel GT Ultimate Portfolio 1968-1973 **Opel Manta Limited Edition 1970-1975** Packard Automobiles 1920-1958 - A Portfolio Pantera Ultimate Portfolio 1970-1995 Panther Gold Portfolio 1972-1990 Plymouth Limited Edition 1950-1960 Plymouth Fury Limited Edition Extra 1956-1976 Barracuda Muscle Portfolio 1964-1974 Plymouth Muscle Portfolio 1964-1971 Pontiac 1946- 1963 Limited Edition Premier High Performance Firebirds 1982-1988 Firebird & Trans Am Performance Portfolio 1993-00 Pontiac Fiero Performance Portfolio 1984-1988 Porsche Sports Racing Cars UP 1952-1968 Porsche 917 • 935 • 956 • 962 Gold Portfolio Porsche 912 Limited Edition Extra Porsche 365 Ultimate Portfolio 1952-1965 Porsche 911 1965-1969

Porsche 911 1973-1977 Porsche 911 SC & Turbo Gold Portfolio 1978-1983 Porsche 911 Carrera & Turbo Gold Port. 1984-1989 Porsche 911 Ultimate Portfolio 1990-1997 Porsche 911 Takes On The Competition 1990-1997 Porsche 911 Ultimate Portfolio 1998-2004 Porsche 914 Ultimate Portfolio Porsche 924 Gold Portfolio 1975-1988 Porsche 928 Gold Portfolio 1977-1995 Porsche 928 Takes On The Competition Porsche 944 Ultimate Portfolio Porsche 968 Limited Edition Extra Porsche Boxster Ultimate Portfolio 1996-2004 Railton & Brough Superior Gold Portfolio 1933-1950 Range Rover Gold Portfolio 1970-1985 Range Rover Gold Portfolio 1985-1995 Range Rover Performance Portfolio 1995-2001 Range Rover Takes on the Competition Riley RM Series Pathfinder 2.6 A Brooklands Port. Rolls-Royce Silver Clould & Bentley S Ultimate Port. Rolls-Royce Silver Shadow Ultimate Port. 1965-80 Rover P4 1949-1959 Rover 2000 & 2200 1963-1977 Studebaker Ultimate Portfolio 1946-1966 Studebaker Hawks & Larks Lim. Edit. Premier 1956-66 Avanti Limited Edition Extra 1962-1991 Subaru Impreza Turbo Limited Edition Extra 1994-00 Subaru Impreza WRX Performance Port. 2001-2005 Sunbeam Alpine Limited Edition Extra 1959-1968 Sunbeam Tiger Limited Edition Extra 1964-1967 Suzuki SJ Gold Portfolio 1971-1997

Vitara, Sidekick & Geo Tracker Perf. Port. 1988-1997 Tatra Cars Road Test Portfolio Toyota Land Cruiser Gold Portfolio 1956-1987 Toyota Land Cruiser 1988-1997 Toyota Supra Performance Portfolio 1982-1998 Toyota MR2 Road Test Portfolio 1984-1989 Toyota MR2 Road Test Portfolio 1990-1999 Toyota MR2 Road Test Portfolio 2000-2007 Toyota MR2 Takes On The Competition Triumph TR2 & TR3 Gold Portfolio 1952-1961 Triumph TR4, TR5, TR250 1961-1968 Triumph TR6 Road Test Portfolio Triumph Herald 1959-1971 Triumph Vitesse 1962-1971 Triumph 2000, 2.5, 2500 1963-1977 Triumph GT6 Gold Portfolio 1966-1974 Triumph Stag Road Test Portfolio TVR Limited Edition Ultra 1958-1985 TVR Performance Portfolio 1986-1994 TVR Performance Portfolio 1995-2000 TVR Performance Portfolio 2000-2005 VW Beetle Gold Portfolio 1935-1967 VW Beetle Gold Portfolio 1968-1991 VW Bus Camper Van Perf. Portfolio 1954-1967 VW Bus Camper Van Perf. Portfolio 1968-1979 VW Bus Camper Van Perf. Portfolio 1979-1991 VW Karmann Ghia Gold Portfolio 1955-1974 VW Scirocco 1974-1981 VW Golf GTI Limited Edition Extra 1976-1991 VW Golf Cabriolet 1979-2002 Road Test Portfolio VW Corrado Limited Edition Premier 1989-1995

Volvo PV444 & PV544 Perf. Portfolio 1945-1965 Volvo 120 Amazon Ultimate Portfolio Volvo 1800 Ultimate Portfolio 1960-1973 Volvo 140 & 160 Series Gold Portfolio 1966-1975 Forty Years of Selling Volvo Westfield Performance Portfolio 1982-2004

MILITARY VEHICLES

Complete WW2 Military Jeep Manual Dodge WW2 Military Portfolio 1940-1945 German Military Equipment WW2 Hail To The Jeep Combat Land Rover Portfolio No. 1 Land Rover Military Portfolio Military & Civilian Amphibians 1940-1990 Off Road Jeeps Civilian & Military 1944-1971 US Military Vehicles 1941-1945 Standard Military Motor Vehicles-TM9-2800 (WW2) VW Kubelwagen Military Portfolio 1940-1990 WW2 Allied Vehicles Military Portfolio 1939-1945 WW2 Jeep Military Portfolio 1941-1945

RACING & THE LAND SPEED RECORD

The Land Speed Record 1898-1919 The Land Speed Record 1920-1929 The Land Speed Record 1930-1939 The Land Speed Record 1940-1962 The Land Speed Record 1963-1999 Can-Am Racing 1966-1969 Can-Am Racing 1970-1974 Can-Am Racing Cars 1966-1974 The Carrera Panamericana Mexico - 1950-1954 Le Mans - The Bentley & Alfa Years - 1923-1939 Le Mans - The Jaguar Years - 1949-1957 Le Mans - The Ferrari Years - 1958-1965 Le Mans - The Ford & Matra Years - 1966-1974 Le Mans - The Porsche Years - 1975-1982 Le Mans - The Porsche & Jaguar Years - 1983-91 Le Mans - The Porsche & Peugeot Years - 1992-99 Mille Miglia - The Alfa & Ferrari Years - 1927-1951 Mille Miglia - The Ferrari & Mercedes Years - 1952-57 Targa Florio - The Porsche & Ferrari Years - 1955-1964 Targa Florio - The Porsche Years - 1965-1973

RESTORATION & GUIDE SERIES

BMW 2002 - A Comprehensive Guide BMW 02 Restoration Guide BMW E30 - 3 Series Restoration Bible Classic Camaro Restoration Engine Swapping Tips & Techniques Ferrari Life Buyer's Portfolio Land Rover Restoration Portfolio PC on Land Rover Series I Restoration Lotus Elan Restoration Guide MG T Series Restoration Guide MGA Restoration Guide PC on MGB Restoration Mustang Restoration Tips & Techniques Practical Gas Flow Restoring Sprites & Midgets an Enthusiast's Guide SU Carburetters Tuning Tips & Techniques PC on Sunbeam Rapier Restoration

The Great Classic Muscle Cars Compared Weber Carburettors Tuning Tips and Techniques

ROAD & TRACK SERIES

Road & Track on Aston Martin 1962-1990 Road & Track on Austin Healey 1953-1970 Road & Track on BMW Cars 1966-1974 Road & Track BMW M Series Portfolio 1979-2002 R & T BMW Z3, M Coupe & M Roadster Port. 96-02 R & T Camaro & Firebird Portfolio 1993-2002 Road & Track on Corvette 1968-1982 Road & Track on Corvette 1982-1986 Road & Track on Corvette 1986-1990 Road & Track Corvette Portfolio 1997-2002 Road & Track Dodge Viper Portfolio 1992-2002 Road & Track on Ferrari 1975-1981 Road & Track on Ferrari 1984-1988 Road & Track Ferrari V-12 Portfolio 1992-2002 Road & Track Ferrari F355 360 F430 Portfolio 95-06 Road & Track on Jaguar 1950-1960 Road & Track on Jaguar 1961-1968 Road & Track on Jaguar 1968-1974 R & T Jaguar XJ-S – XK8 – XKR Portfolio 1975-2003 Road & Track MX-5 Miata Portfolio 1989-2002 Road & Track on Mercedes 1952-1962 R & T Mercedes SL – SLK – CLK Portfolio 1990-2003 Road & Track on MG Sports Cars 1949-1961 Road & Track on MG Sports Cars 1962-1980 Road & Track Mustang Portfolio 1994-2002 Road & Track Nissan 300ZX & 350Z Portfolio 1984-03 Road & Track on Porsche 1951-1967

Road & Track on Porsche 1972-1975 Road & Track on Porsche 1975-1978 Road & Track on Porsche 1979-1982 Road & Track Porsche 928 Portfolio 1977-1994 Road & Track Porsche 911 Portfolio 1990-1997 R & T on Rolls Royce & Bentley 1950-1965 R & T on Rolls Royce & Bentley 1966-1984 R & T on Triumph Sports Cars 1967-1974 R & T on Triumph Sports Cars 1974-1982 Road & Track on Volkswagen 1951-1968 Road & Track on Volkswagen 1968-1978 Road & Track on Volvo 1957-1974 Road & Track on Volvo 1977-1994 Road & Track – Best of PS Road & Track – Peter Egan Side Glances 1983-1992 Road & Track – Peter Egan Side Glances 1992-1997 Road & Track – Peter Egan Side Glances 1998-2002 Road & Track – Peter Egan Side Glances 2002-2006

CAR AND DRIVER SERIES

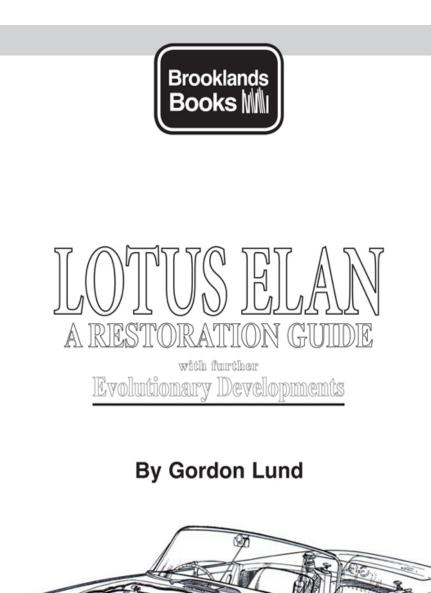
Car and Driver on BMW 1957-1977 Car and Driver on Ferrari 1955-1962 Car and Driver on Ferrari 1963-1975 Car and Driver on Porsche 1955-1962 Car and Driver on Porsche 1963-1970 Car and Driver on Porsche 1970-1976 Car and Driver on Porsche 1977-1981 Car and Driver on Porsche 1982-1986 Car and Driver on Volvo 1955-1976

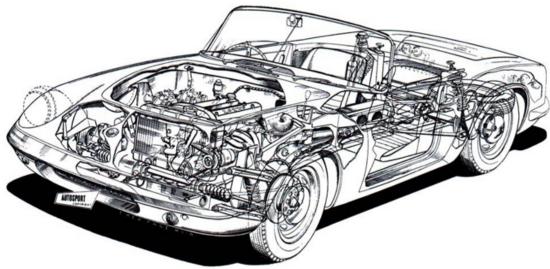
HOT ROD 'ENGINE' SERIES

Chevy 265 & 283 Chevy 302 & 327 Chevy 348 & 409 Chevy 396 & 427 Chevy 454 thru 512 Chevy Monster Big Blocks Chrysler Hemi Chrysler 273, 318, 340 & 360 Chrysler 361, 383, 400, 413, 426 & 440 Ford 289, 302, Boss 302 & 351W Ford 351C & Boss 351 Ford Small Block Ford Big Block

MOTORCYCLES

To see our range of over 70 titles visit www.brooklands-books.com





www.brooklands-books.com

Lotus Elan A Restoration Guide with further Evolutionary Developments



Published by

BROOKLANDS BOOKS LTD. P.O. BOX 146, COBHAM, SURREY, KT11 1LG. UK sales@brooklands-books.com

LTELR

© 2002 and 2012 Gordon Lund and Brooklands Books Limited

All rights reserved. No part of this book may be reproduced, stored, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission in writing from the publisher and author.

Whilst every care has been taken in the preparation of this book, neither the author nor the publisher can accept any liability for loss, damage or injury caused by errors in, or omissions from the information given.

INTRODUCTION

	About the author
	The Authors Elans (Rhubarb and Custard)
Chapter 1	WHY AN ELAN
	"Lots Of Trouble Usually Serious" – Myth or
	Legend.
Chapter 2	THE CAR – IT'S LINEAGE
	Back street special to Supercar status
	Times they are a changing – Economics and Legislation
Chapter 3	BASIC DESCRIPTION
	Dispelling the myths
	An Engineers Guide to the Universe
	Form follows Function
Chapter 4	WHERE TO START
	Read Lotus Books
	Join a Club
	Befriend a Lotus enthusiast
	Developing a Strategy – How to avoid Heartache
	Plan Ahead
	Capabilities and Resources
	Budget
Chapter 5	THE INITIAL PURCHASE
	What to Look For
	Avoidance of Dead Ducks
	Take a Friend
	Choice Criteria
	Where to Buy
	The Sale

Chapter 6	BITE THE BULLET - REFLECT - GET STUCK
	Assess the Situation
	The Importance of Photography
	Take Notes
	Organisation is the Key
	Set the Stage
Chapter 7	THE STRIP DOWN
chapter /	Safety Precautions
	Preparation
	Engine Ancillaries
	Lighten the Load
	Removal and Disconnection of body to
	chassis Components
	Disconnection of Body to Chassis
	The Lift
Chapter 8	BODY RESTORATION
	DIY Body Work
	Use of the Professionals
	Storage
Chapter 9	THE ROLLING CHASSIS
	Dismantling
	Engine, Gearbox Removal
	Engine Strip and rebuild
	Drive Train Removal
	Drive Train Strip and rebuild
	Rear Suspension Removal
	Rear Suspension Strip and rebuild
	Front Suspension, Steering Removal
	Front Suspension, Steering Strip and rebuild
	Chassis – Refurbish or Replace

Chapter 10	PREPARATION FOR THE REBUILD
	Make a List
	Reverse all Strip Down Instruction
	The Great Manual Get Out Clause
	Cleanliness is the Key
Chapter 11	THE ROLLING CHASSIS REBUILD
	Start Up-Side Down
	Corrosion Protection, Do it Now
	Work in an Orderly Fashion – Be Prepared
	Brake Pipes, Hand brake cable and petrol
	pipe
	The Hand Brake Tree
	Mounting the Differential
	The Rear Suspension
	The Drive Train
	The Front Suspension
	Steering
	Hubs and Brakes
	Engine and Gearbox
	Exhaust
	Ancillaries
	Wheels and Tyres
Chapter 12	FITTING THE BODY
Chapter 13	ELECTRICS
	Heater
	Wiper motor, mechanisms and washer jets
Chapter 14	FINISHING THE BODY
	Windows
	Trim
Chapter 15	THE BOOT
	Petrol tank

Chapter 16 Chapter 17	Petrol gauge sender unit Boot locking mechanism SILL MEMBERS +2 UNDER THE BONNET Hydraulics Radiator
Chapter 18	PREPARATION FOR THE BIG DAY Setting up Fire up Tune up Running in
Chapter 19	PREPARING ELANS FOR CONCOURS PRESENTATION Bodywork Engine bay Interior
Chapter 20	ELAN DEVELOPMENTS Elan Type 26R The Elanbulance Italian design houses body alternatives Detachable hard tops for soft tops Fast back coupes The Ian Walker Elan SpyderCars Limited Spyder chassis replacements Spyder Zetec conversions Spyder Cosworth conversions Vegantune Evante Engines CN Sprint Early +2 convertibles

	+2 Estates
Chapter 21	ROGER MAKHLOUF'S ELAN+2 S130/5 ESTATE - ESTRALLE
Chapter 22	EMA ON STEROIDS
Chapter 23	ESTABLISHED AND INDEPENDENT LOTUS DEALERS
	Bell & Colvill
	Paul Matty Sportscars
	Christopher Neil Specialist Sportscars
	Chris Foulds Motors
Chapter 24 APPENDICES	IN CONCLUSION
Appendix i	BOOK LIST
Appendix ii	ELAN S4 REAR DASH WIRING (LOOKING FROM REAR OF DASH)
Appendix iii	TECHNICAL DRAWINGS
Appendix iv	TECHNICAL DATA
Appendix v	CONVERSION TABLES
Appendix vi Index	CLASSIC LOTUS SPECIALISTS & CLUBS

ACKNOWLEDGEMENTS

It is on reflection that what I set out to achieve could not have been completed without encouragement from certain individuals. On approaching a number of publishers with my early renditions, synopsis and covering letters, mainstream concerns showed little, if no, interest in my work. John Dowdeswell of Brooklands Books came to my rescue and with knowledgeable advice on publishing matters of this type showed me the way. Many thanks John.

I am indebted to Alastair Florance of Lotus Cars Limited for permission to include drawings and information from their invaluable workshop manual and also to Autosport for allowing us to include the interesting Theo Page cut-away drawing on the title page. The book would not have been complete without the extra photographs of Jenny Stevens and David Bowers.

For checking the content and proof reading I have had great help from Phil Hoban who, as well as being a Lotus enthusiast, worked in publishing before his retirement. And Peter Waggett, a great friend from within the motor industry prior to his retirement and another Lotus enthusiast with an immense amount of knowledge.

New photos are either property of myself the author, or Roger Makhlouf the owner of the +2 Estate, or Tony Penzato the owner of the yellow over white Sprint (EMA), and Paul Matty. Photos of Roger Makhlouf's +2 Estate at Goodwood were kindly given by Tony Abbey and my appreciation to Oliver Sadler of Phoenix Motorsports for the use of his splended garage for the front cover photo shoot.

I am indepted to Paul Matty of Paul Matty Sports cars for his permission to use his photographs, press releases and material from his web site within this publication. Also to Don Broughton and Neil Shepherdson of Christopher Neil Sportscars for permission to use CN Cabriolet and CN Sprint advertising publications and web site material.

I am also indepted to Bobby Bell and Martin Colvill of Bell & Colvill for the time they gave to my son and myself and agreed to be interviewed. They also gave me free rein of their website and a collection of historic photos to insert into the book for which I am extremely grateful. Along with, Chris Foulds for allowing me an interview and again free access to his website.

Mention must also be made of my appreciation to Frank Anderson of Anderson Racing Engines who gave me permission to use material from his web site.

The same also goes for Sean Reeve at Spydercars Limited who gave me permission to use their web site material.

Without the cooperation of all of the above, this book would have been much less of a read and a lot more difficult for me to write.

Lastly to my wife, Johanna, who has shown considerable patience over the years with what can only be called a time consuming hobby. I would like to take this opportunity to dedicate this book to her.

Gordon Lund

INTRODUCTION

This book is intended for those people who like the look of a Lotus Elan and would love to own one. It contains information they will need before buying one and subsequent guidance for the inevitable restoration. It is written in an easily readable style, conveying the authors considerable experience in restoring a 1968 Regency Red Lotus Elan +2 more times than I care to remember and a Concours winning 1972 Yellow over White Elan Sprint. More of this car later which, since the publication of the first edition of the book, has had quite an eventful life.



My Elan + 2 (*Rhubarb*) *just after its final restoration. The setting, Ullswater in the Lake District.* 1992

The workshop manual does not always give the answer for those working with limited tools, often in a cramped environment. Where I have found a simpler way, I have included it. Against this backdrop, I hope to convey in a covivial manner the why's, the wherefores and avoidance of heartache when purchasing and restoring an Elan.

The first edition of my book was commented on by some for not going deep enough into certain areas of Elan restoration, but as was often overlooked, I never intended to replace the official Lotus workshop manual. Indeed the publishers of this book, Brooklands Books, have a fine rendition of their own, intended purely as an alternative workshop manual to the Lotus original. (see the list of publications at the back of this book) The Brooklands version is more readable than the original Lotus version and presents the subject in far more layman's terms which is more easily understood by the home mechanic / enthusiast.

Indeed I have been gratified by the many people who have come up to me at the many Lotus shows I have attended who have told me how much they enjoyed reading the book. To many it has brought inspiration to get that long lost restoration out of the garage. To get it started or even finished after a long lay-off after losing interest or reaching what then could have been an insurmountable problem. To some it has helped them with a purchase but to many it turned out to be a good "read".

Both my good friend, Phil Gaskell, the owner of an immaculate Elan S4 Sprint Drop Head Coupe and myself, have had many displays at Donington Park, Stoneleigh, and elsewhere, where we have sold many copies of the first edition of my book. At these shows we have talked to many people, Elan enthusiasts and many more who we have helped by giving them much appreciated advice but most of all the encouragement to follow their dream and get an Elan or finish off what they started.



My Elan Sprint (Custard) on show in the main arena building at the Lotus Enthusiasts Car Show, Newark. Rally plaques and recently won concours trophy for the Best Car in Show at Hoghton Tower Classic Car Show, 2000

All I can do then is to emphasise that my book is a personal account of my own experiences and that the following words still apply to this day.

If you want a blow by blow "how do I do this" scenario then read the Lotus "Bible", the official factory Workshop Manual. No owner should be without one. Also if you want complete Lotus history, original parts identification, comparisons between models, contemporary road tests and other writers colourful accounts then there are a host of publications on the bookshelves. They all make good reading, I have read most of them myself. So sit back, relax and enjoy.