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Introduction Chapter

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procedures Chapter

3: Cooling, heating

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systems Chapter 4:

Fuel and exhaust

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Engine electrical

systems Chapter 6:

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Emissions and engine  
control systems

Chapter 7: Part A:

Manual transaxle

Chapter 7: Part B:

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Improving the  
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Components a  
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electrical  
systems from  
1950 to 1980.  
Particular***

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***emphasis is placed on the Lucas, Smith and SU components that were ubiquitous in British cars of the period. Each major system is given its own chapter,***

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theory,  
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parts and full  
system  
operating  
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Modifications  
are suggested  
for those  
wishing to bring  
performance***

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***and reliability  
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modern  
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***input from their  
colleagues at  
Triumph. The  
SD1's top  
models even  
shared their V8  
engines with  
earlier and  
much-loved  
classics from  
Rover. It was  
stunningly***

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*attractive,  
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to its large  
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production data.

Well illustrated  
with photos &  
diagrams.

CONTENTS

Acknowledgements  
& Introductions

PART ONE:

Development of the  
twin-cam PART

TWO: Engine

Rebuilding PART

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THREE: Twin-cam  
data Appendix (A)  
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liter \* 4.4i*

*M62 TU engine,  
V8 4.4 liter \*  
4.4i N62*

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engine, V8 4.4  
liter

(Valvetronic) \*

4.6is M62 TU

engine, V8 4.6

liter \* 4.8is

N62 engine, V8

4.8 liter

(Valvetronic)

Transmissions

(remove,

install,

external

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service) : \*

Manual 5-speed

S5D 280Z \*

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GS6-37BZ \*

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5-speed A5S

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Automatic

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440Z \*

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*types of*

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success with  
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step-by-step  
instructions, and is  
thorough enough to  
help anyone from a  
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features a new  
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design, the content  
is the same as the  
prior release and  
should not be  
considered a new or***

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automobile  
maintenance on  
their own, with*

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third of this \$34  
billion automotive  
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much easier to find  
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instructions. Author  
Deanna Sclar has  
updated systems  
and repair  
information  
throughout,*

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***eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and***

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***added new advice  
on troubleshooting  
problems and  
determining when to  
call in a professional  
mechanic. For  
anyone who wants  
to save money on  
car repairs and  
maintenance, this  
book is the place to  
start. Deanna Sclar  
(Long Beach, CA),  
an acclaimed auto***

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*repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs.*

*Machining is an essential part of high-performance engine building and*

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***stock rebuilding, as well as certain servicing procedures.***

***Although you may not own the expensive tooling and machining to perform all or any of the machining required for a quality build, you need to understand the principles,***



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*procedures, and  
goals for machining,  
so you can guide  
the machining  
process when  
outsourced. Classic  
and older engines  
typically require  
extensive machining  
and almost every  
major component of  
engine, including  
block, heads, intake,  
crankshaft, and*

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***pistons, require some sort of machining and fitment. A detailed, authoritative, and thorough automotive engine-machining guide for the hard-core enthusiast has not been available until now. Mike Mavrigian, editor of Engine Building***

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*application and engine design. The author also shows you how to inspect, measure, and evaluate components so you can provide astute guidance and make the best machine work choices. Machining procedures included are cylinder boring,*

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***align boring/honing,  
decking, valveseat  
cutting, cam tunnel  
boring, and a  
multitude of other  
services. In addition,  
multi-angle valve  
jobs, setting the  
valveseats, altering  
rocker arm ratio, re-  
conditioning  
connecting rods,  
and machining and  
matching valvetrain***

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**components are  
also covered.**

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to spent gasses leaving  
through the exhaust.

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optimize all the  
components in  
between, such as  
selecting heads for  
maximum flow or port  
heads for superior  
power output, ideal  
valvetrain  
components, realizing  
the ideal rocker arm

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ratios for a particular application, secrets for selecting the best cam, and giving unique insight into all facets of cam performance. In addition, he covers how to select and setup superchargers, nitrous oxide, ignition and other vital aspects of high-performance engine building.



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gasoline (engine code  
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of these impressive  
vehicles which  
includes technical  
specs of all models  
and production lines-  
Includes a separate  
timeline-poster of the  
history of the Land  
Cruiser- Revised and  
extended*



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*Developed in  
1951 as Toyota's  
version of a Jeep-like  
vehicle, the Land  
Cruiser has been  
produced in  
convertible, hardtop,  
station wagon and  
utility truck versions  
plus its current  
flagship 4WD vehicle.  
Its reliability and  
longevity has led to  
huge popularity,*

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*especially in Australia  
where it has reliably*

*performed under the  
toughest*

*environmental*

*conditions - "Gets you  
there ... gets you*

*back"! The author,*

*Alexander Wohlfahrt,*

*tells the history of*

*these impressive*

*vehicles, describes*

*the people who drive*

*them and their*

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*philosophy of this type  
of car - whether they  
use it for fun or  
business. Last but not  
least the reader will  
also find the complete  
technical  
specifications of all  
models and  
production lines within  
this highly illustrated  
book.*

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hardcover edition, first*

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published in 1962.

*The book describes  
Goethe's Weimar  
from documents and  
research and  
interprets the  
connections between  
German culture and  
German society both  
in the age of Goethe  
and later. To this book  
Professor Bruford has  
written a sequel, The  
German Tradition of*

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*Self-Cultivation, and the two books together offer an introduction to the whole evolution of the German intellectual tradition.*

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*and steering,  
electrical systems,  
wiring diagrams.*

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development,*

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maintenance of the*

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