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**Bmw 323i**

# Repair Manual Online

Enthusiasts have embraced the GM Turbo 400 automatics for years, and the popularity of these transmissions is

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not slowing down.

Ruggles walks through the step-by-step rebuild and performance upgrade procedures in a series of full-color photos.

BMW owners and BMW CCA members provide specific information for your BMW: - Valuable insights and technical information ranging

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from basic service tips to advanced driving theory- Inside secrets on maintaining and preserving your BMW, from properly washing and waxing your car, to how to reset the service indicator lights- Driving techniques ranging from basic car control to

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performance

modifications work,  
which ones don't and  
why

Models covered:

BMW 3-Series

models, E46 chassis  
(1999 through 2005)  
and Z4 models

(2003-through 2005)

; does not include the

318ti, 323is, 328is,

Z3, or information

specific to M3 models

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or all-wheel drive models.

This title traces the development of the BMW 6 series (manufactured from 1976-1989) along with its sales and racing history in both Europe and US in this detailed volume. It includes a 'Spotters Guide' to help you identify and select the

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Series 6 best for you.

How to Rebuild &  
Modify GM Turbo  
400 Transmissions  
BMW 7 Series

B. M. W.3 Series  
Service and Repair  
Manual

VW Golf, GTI, Jetta  
and Cabrio, 1999  
Thru 2002

BMW X5 (E53)  
Service Manual:  
2000, 2001, 2002,

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2003, 2004, 2005,  
2006: 3.0i, 4.4i, 4.6is,  
4.8is

Service Manual ;  
735i, 735iL, 740i,  
740iL, 750iL, 1988,  
1989, 1990, 1991,  
1992, 1993, 1994

"Covers U.S.  
and Canadian  
models of BMW  
3-series  
models, E46



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chassis

(1999-2006) and  
Z4 models (2003  
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include the

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328is, Z3 or

information

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models or all-

wheel drive

models."

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A practical restoration manual on the E36, the 3 Series BMWs built between 1990 & 1999. Covers all models from the 316 compact to the M3. Advice is given on acquiring a

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good pre-owned  
example plus  
restoring &  
modifying  
engines,  
bodywork, trim,  
electrics,  
suspension &  
mechanical  
parts. Detailed  
information on  
Alpina & M3  
cars. A total

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of 148 fully  
illustrated  
colour and  
black & white  
The BMW 3  
Series (F30,  
F31, F34)  
Service Manual:  
2012-2015  
contains in-  
depth  
maintenance,  
service and

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information for  
the BMW 3  
Series from  
2012 to 2015.

The aim  
throughout has  
been simplicity  
and clarity,  
with practical  
explanations,  
step-by-step  
procedures and

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accurate

specifications.

Whether you're

a professional

or a do-it-

yourself BMW

owner, this

manual helps

you understand,

care for and

repair your 3

Series. Engines

(Gasoline): N20

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engine: 320i,  
328i, including  
xDrive N26

(SULEV) engine:  
328i including  
xDrive N55

engine: 335i,  
including  
xDrive

Unbeatable BMW  
is the  
comprehensive  
history of BMW

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competition  
from 1917  
through 1997.  
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classic among  
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but its  
coverage was  
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engineering  
know-how,  
daredevil  
drivers,  
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circle. Behind  
BMW's envied

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reputation and the whirling-propeller badge are such legends as the prewar BMW 328 sports cars and the 1990s 200 m.p.h.

McLaren/BMW V12s.

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first-hand  
tales of BMW's  
aviation and  
motorcycling  
deeds. Included  
are gripping  
accounts of the  
preparation and  
track-side  
action for such  
emotive winners  
as the  
diminutive BMW

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700 coupes to  
the 1800 "Tisa"  
and 2002s.

Walton sweeps  
through the  
1970s

"Batmobile" 3.0  
CSL lightweight  
racing coupes,  
then explores  
the best-  
selling  
3-series in

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every race

category.

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covers the

unexpected

success of the

5- and

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recalls the

establishment

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of BMW's

Motorsport

division, and

the thrill of

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Powered cars.

From M1 onward,

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details the

burgeoning M-

brand, how

Mpower won the

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title for a turbocharged car (1983), and the years as the backbone of European Formula 2. The book's 582 pages are packed with detail to thrill the heart of the



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most ardent BMW fan, from meticulous photo captions listing car, driver, and race date, to six appendices covering the competition cars since 1960, drivers' accomplishments

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powerplant specifications. In short, if BMW has raced, rallied, or flown their products in competition, Unbeatable BMW gives the full, behind-the-scenes story in

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this compelling  
account of the  
marque's  
motorsports  
history.

Motor Auto  
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BMW 6 Series  
Enthusiast's  
Companion

BMW Z3 Service  
Manual

How to Build

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and Modify

How to Rebuild  
the 8.8 and 9  
Inch

A Hands-on  
Guide to  
Getting the  
Most from Your  
F-series Pickup

A world of  
fun,  
excitement,

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exploration  
and  
satisfaction  
awaits the  
owner of an  
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3 Series cars  
- and this  
book is your  
ticket to that  
wonderful  
world. Some of

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the most popular forms of motorsport are examined, along with explanations of how to take part and what equipment you need.

The authoritative

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companion book  
for your Ford  
F-Series  
pickup,  
covering model  
years  
1948-1995.  
For over 25  
years Rob  
Siegel has  
written a  
monthly column

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called "The Hack Mechanic" for the BMW Car Club of America's magazine Roundel. In *Memoirs of a Hack Mechanic*, Rob Siegel shares his secrets to



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buying,  
fixing, and  
driving cool  
cars without  
risking the  
kids' tuition  
money or  
destroying his  
marriage. And  
that's  
something to  
brag about

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considering  
the dozens of  
cars,  
including  
twenty-five  
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passed through  
his garage  
over the past  
three decades.  
With a steady

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that will  
resonate with

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of service

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information  
and  
specifications  
available  
specifically  
for BMW 5  
Series from  
1997 to 2002.  
The aim  
throughout  
this manual  
has been

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simplicity,  
clarity and  
completeness,  
with practical  
explanations,  
step-by-step  
procedures and  
accurate speci-  
fications.

Whether you  
are a  
professional

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or a do-it-yourself BMW owner, this manual will help you understand, care for and repair your E39 5 Series. Though the do-it-yourself BMW owner will

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manual  
indispensable  
as a source of  
detailed  
maintenance  
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information,  
the BMW owner  
who has no  
intention of  
working on his

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repairs more  
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technician.

BMW 3-Series

Automotive

Repair Manual

740i, 740iL,

750iL: 1995,

1996, 1997,

1998, 1999,

2000 2001

The Hack

Mechanic Guide

to European

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Automotive  
Electrical  
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Carrera,  
Carrera 4,  
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1982-1992  
Chilton's BMW  
3-series, Z4  
1999-05 Repair



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*The E36 was the embodiment of the luxury sports sedan, and the standard that other manufacturers strived to reach. And as such, the BMW 3 Series became wildly popular with BMW manufacturing 2.67 million E36 cars*

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*worldwide from  
1992 to 1999. The  
new E36 featured a  
more aerodynamic  
design, potent dual  
overhead cam engine,  
multilink rear  
suspension, and a  
more luxurious  
interior than its  
predecessor. The E36  
BMW seamlessly*

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*blended exhilarating performance with refined appointments and produced a comfortable yet aggressive driving machine that appealed to a wide audience. Although the stock BMW is a more-than-capable sports sedan, veteran*

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author Jeffrey

*Zurschmeide delves into all the different methods for extracting more performance, so you can make your E36 even more potent. He explains how to upgrade handling and control through installation of*

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*aftermarket coil-over springs, bushings, sway bars, and larger brakes. Producing more power is also a priority, so he shows you how to install and set up a cold-air intake, ignition tuners, and exhaust system components.*

*You are also guided*

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*through work on  
cylinder heads, cams,  
and pistons. In  
addition, you're  
shown the right way  
to install  
superchargers and  
turbo kits. If your 3  
Series is making more  
power, then you need  
to get that power to  
the ground; guidance*

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*is provided for  
upgrading the  
transmission and  
limited-slip  
differentials. The  
BMW 3 Series has set  
the benchmark for  
performance and  
luxury. But even at  
this benchmark, these  
cars can be  
dramatically*

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*improved. Each major component group of the car can be modified or upgraded for more performance, so you can build a better car that's balanced and refined. If you want to make your E36 a quicker, better handling, and more*



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*capable driving machine, this book is your indispensable guide for making it a reality.*

*Produced from 1984-9, the BMW 3 Series' popularity and status is maybe due to the longevity of its design, its ability to satisfy the keen*

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*driver or its iconic status but, whatever it is, there is no doubt that the E30 is one car from the past that will stay with us into the future. Focusing on the common faults which crop up repeatedly and giving detailed, simple instructions regarding*

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*repairs, this book is uniquely invaluable for owners who wish to try their hand at their own maintenance, especially those who may previously have been prevented from doing so by a lack of technical know-how or specific*

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*knowledge.*

*The MINI Cooper,  
Cooper S, Clubman  
(R55, R56, R57)  
2007-2013 Service  
Manual is a  
comprehensive source  
of service  
information and  
specifications for  
MINI Cooper models  
from 2007 to 2013*

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*(Mk II). The aim throughout this manual has been simplicity, clarity and completeness, with practical explanations, step-by-step procedures and accurate specifications.*

*Whether you're a professional or a do-*

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*it-yourself MINI*

*owner, this manual  
will help you*

*understand, care for  
and repair your car.*

*Engines covered:*

*Cooper: 1.6 liter*

*normally aspirated*

*engine (engine codes*

*N12, N16) Cooper S:*

*1.6 liter supercharged*

*engine (engine codes*

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*N14, N18)*

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*6-speed Getrag*

*(GS6-55BG for*

*Cooper, GS6-53BG*

*for Cooper S)*

*Automatic: 6-speed*

*with Agitronic, Aisin*

*(GA6F21WA)*

*XLH883, XL883R,*

*XLH1100,*

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*XL/XLH1200*

*How to Modify*

*BMW E30 3 Series*

*BMW X3 (E83)*

*Service Manual:*

*2004, 2005, 2006,*

*2007, 2008, 2009,*

*2010: 2.5i, 3.0i,*

*3.0si, Xdrive 30i*

*BMW 3-Series Petrol*

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*How Fixing Broken  
BMW's Helped Make  
Me Whole  
Ford Differentials  
For High-  
performance and  
Competition*

This BMW Repair  
Manual: 3 Series  
(E46): 1999-2005  
is a  
comprehensive

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source of service information and technical specifications available for the BMW E46 platform 3 Series models from 1999 to 2005. Whether you're a professional or a do-it-yourself

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BMW owner, this manual will help you understand, care for and repair your car. Though the do-it-yourself 3 Series owner will find this manual indispensable as a source of detailed maintenance and repair information,

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the owner who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician. BMW

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E46 models and engines covered in this repair manual: \* 323i/Ci (M52 TU, 2.5 liter engine) \* 328i/Ci (M52 TU, 2.8 liter engine) \* 325i/Ci/xi (M54 / M56, 2.5 liter engine) \* 330i/Cis/xi (M54,

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3.0 liter engine) \*  
M3 (S54, 3.2 liter  
Motorsport  
engine)

The BMW 7 Series  
(E38) Service  
Manual:

1995-2001 is a  
comprehensive  
source of service  
information and  
technical

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specifications  
available for the  
BMW 7 Series  
models from 1995  
to 2001. Whether  
you're a  
professional or a  
do-it-yourself  
BMW owner, this  
manual will help  
you understand,  
care for and repair

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your car. Models,  
engines and  
transmissions  
covered: \* 740i,  
740iL: M60 4.0  
liter, M62 or M62  
TU 4.4 liter \*  
750iL: M73 or M73  
TU 5.6 liter Engine  
management  
systems  
(Motronic): \*



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Bosch M3.3 (OBD  
I) \* Bosch M5.2  
(OBD II) \* Bosch  
M5.2.1 (OBD II) \*  
Bosch M5.2.1  
(OBD II / LEV) \*  
Bosch ME 7.2  
(OBD II) Automatic  
transmissions \*  
A5S 560Z \* A5S  
440Z

This Bentley

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Manual is the only comprehensive, single source of service

information and specifications for BMW 3 Series (E30) cars from 1984-1990.

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it-yourself BMW owner, this manual will help you understand, maintain, and repair every system on 3 Series cars. Since its introduction in 1975, the BMW 3-series has

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earned a reputation as one of the world's greatest sports sedans.

Unfortunately, it has also proven one of the more expensive to service and maintain. This book is dedicated

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to the legion of  
BMW 3-series  
owners who adore  
their cars and  
enjoy restoring,  
modifying, and  
maintaining them  
to perfection; its  
format allows  
more of these  
enthusiasts to get  
out into the

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garage and work on their BMWs- and in the process, to save a fortune. Created with the weekend mechanic in mind, this extensively illustrated manual offers 101 projects that will help you modify, maintain,

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and enhance your  
BMW 3-series  
sports sedan.

Focusing on the  
1984-1999 E30  
and E36 models,  
101 Performance  
Projects for Your  
BMW 3-Series  
presents all the  
necessary  
information,

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covers all the  
pitfalls, and  
assesses all the  
costs associated  
with performing  
an expansive  
array of weekend  
projects.

M3, 323i, 325i,  
325xi, 328i, 330i,  
330xi, Sedan,  
Coupe,



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Convertible, Sport  
Wagon: 1999,  
2000, 2001, 2002,  
2003, 2004 2005  
Eighty Years of  
Engineering and  
Motorsport  
Success

Porsche  
Ford F-series  
Pickup Owner's

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Bible

Mini Cooper (R55,  
R56, R57) Service  
Manual: 2007,  
2008, 2009, 2010,  
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Cooper, Cooper S,  
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Works (Jcw)  
Including  
Clubman, Con

**The BMW 3 Series**

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**(E36) Service**

**Manual: 1992-1998**

**is a comprehensive,  
single source of  
service information  
and specifications  
specifically for E36  
platform BMW 3  
Series models from  
1989 to 1995. E36  
models and engines  
covered: \***

**318i/is/iC (M42 -  
1.8 liter engine)  
(M44 - 1.9 liter  
engine, OBD II) \*  
323is/iC (M52 - 2.5  
liter engine, OBD  
II) \* 325i/is/iC  
(M50 - 2.5 liter  
engine) \* 328i/is/iC  
(M52 - 2.8 liter  
engine, OBDII) \*  
M3 (S50US - 3.0**

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**liter engine)**

**(S52US - 3.2 liter  
engine, OBD II)**

**The Ford 8.8- and  
9-inch rear  
differentials are  
two of the most  
popular and best-  
performing  
differentials on the  
market. While the  
8.8-inch**

**differential is commonly used in late-model Mustangs, the 9-inch is the more popular and arguably the most dominant high-performance differential for muscle cars, hot rods, custom**

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**vehicles, and race cars. Built from 1957 to 1986, the 9-inch Ford differential is used in a huge range of high-performance Ford and non-Ford vehicles because of its rugged construction, easy-to-set-up design,**

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**and large  
aftermarket  
support. The 9-inch  
differential  
effectively  
transmits power to  
the ground for  
many classic Fords  
and hot rods of all  
types, but it is the  
choice of many GM  
muscle car owners**



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**and racers as well. These differentials have been used extensively and proven their mettle in racing and high-performance applications. The Ford 8.8- and 9-inch must be rebuilt after extensive use and**

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**need a variety of  
different ratios for  
top performance  
and special  
applications. This  
Workbench book  
provides detailed  
step-by-step photos  
and information  
for rebuilding the  
differentials with  
the best equipment,**

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**installing the gear sets, and converting to Posi-Traction for a variety of applications. It describes how to disassemble the rear end, identify worn ring and pinion gears, other damage or wear, and shows step-by-**

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**step rebuilding of the differential. It also explains how to select the right differential hardware, bearings, seals, and other parts, as well as how to set ring and pinion backlash so that the rear end operates**

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**at peak efficiency.  
Aftermarket 9-inch  
performance  
differentials from  
manufacturers  
including Currie,  
Moser and Strange  
are reviewed and  
you learn how to  
rebuild and set up  
these high-  
performance**

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**aftermarket  
differentials. In  
addition, this book  
provides a  
comprehensive  
identification chart  
to ensure readers  
properly identify  
the model and  
specifics of the  
9-inch differential.  
Chapters include**

**axle identification,  
inspection, and  
purchasing axles  
for rebuilding;  
differential tear  
down; ring and  
pinion gear  
removal; inspection  
and reassembly;  
drive axle choices;  
and more.**

**BMW 3- & 5-Series**

**Petrol (81 - 91) up to J 3-Series (E30) 316, 316i, 318i, 320i, 325i; Saloon, Touring & Convertible (83 - 91, up to H). 5-Series (E28) 518, 518i, 525i, 528i, 535i, M535i; Saloon (81 - 88, up to F). 5-Series**



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**(E34) 518i, 520i,  
525i, 530i, 535i;  
Saloon & Touring  
(88 - 91, F to J).  
Does NOT cover  
models with  
DOHC, V8 or  
Diesel engines, or  
4x4. For other 3- &  
5-series models see  
manuals no. 0276,  
0632, 0815, 1560 or**

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**3210 Petrol: 1.6  
litre (1596cc) 1.8  
litre (1766 &  
1795cc) 2.0 litre  
(1990cc). 2.5 litre  
(2494cc). 2.8 litre  
(2788cc) 3.0 litre  
(2986cc) & 3.5 litre  
(3430cc) SOHC.**

**BMW repair  
manuals The  
ultimate service**

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**manuals! Bentley  
manuals are the  
only  
comprehensive,  
single source of  
service information  
and specifications  
available for BMW  
cars. These  
manuals provide  
the highest level of  
clarity and**

**completeness for all  
service and repair  
procedures.**

**Enthusiasts, do-it-  
yourselfers, and  
professional  
technicians will  
appreciate the  
quality of  
photographs and  
illustrations, theory  
of operation, and**

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**will help you when  
discussing repairs  
and maintenance  
with your  
professional  
automotive  
technician.**

**Harley-Davidson  
XL/XLH Sportster  
1986-2003  
BMW Enthusiast's  
Companion**

*Page 102/154*

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**BMW 5 Series  
(E39) Service  
Manual 1997-2002,  
Volume 2: 525i,  
528i, 530i, 540i,  
Sedan, Sport  
Wagon**

**BMW 3 Series  
(E46) Service  
Manual  
Volkswagen Jetta,  
Golf, GTI (A4)**

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**Service Manual:  
1999, 2000, 2001,  
2002, 2003, 2004,  
2005: 1.8l Turbo,  
1.9l Tdi Diesel, Pd  
Diesel, 2.0l**

**Gasoline, 2.8l**

**BMW 3 Series**

**(F30, F31, F34)**

**Service Manual:**

**2012, 2013, 2014,**

**2015: 320i, 328i,**



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**328d, 335i,  
Including Xdrive  
Every Haynes  
manual is based  
on a complete  
teardown and  
rebuild, contains  
hundreds of  
"hands-on"  
photos tied to  
step-by-step  
instructions, and**

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**is thorough  
enough to help  
anyone from a do-  
it-your-selfer to a  
professional.  
If you're looking  
for better  
understanding of  
your E36 BMW,  
look no further!  
See and learn  
how to perform**

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**routine**

**maintenance**

**procedures with  
the highest level  
of clarity and co  
mprehensiveness**

**. This in-depth  
manual provides  
maintenance  
procedures for  
everything from  
brake fluid**

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**changes to  
resetting the  
service indicator.  
Covers M3, 318i,  
323i, 325i, 328i,  
sedan, coupe and  
convertible  
models 1992-98.  
Haynes  
disassembles  
every subject  
vehicle and**

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**documents every  
step with  
thorough  
instructions and  
clear photos.  
Haynes repair  
manuals are used  
by the pros, but  
written for the do-  
it-yourselfer.  
The BMW X3  
(E83) Service**

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**Manual:**

**2004-2010**

**contains in-depth  
maintenance,  
service and  
repair**

**information for  
the BMW X3 from  
2004 to 2010. The  
aim throughout  
has been  
simplicity and**

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**clarity, with  
practical  
explanations,  
step-by-step  
procedures and  
accurate  
specifications.  
Whether you're a  
professional or a  
do-it-yourself  
BMW owner, this  
manual helps you**

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**understand, care  
for and repair  
your BMW.**

**Engines covered:**

**M54 engine: 2.5i,  
3.0i (2004-2006)**

**N52 engine: 3.0si,  
xDrive 30i  
(2007-2010)**

**Transmissions**

**covered: Manual:  
ZF GS6-37BZ**



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**(6-speed)**

**Automatic: GM  
A5S390R**

**(5-speed)**

**Automatic: GM  
GA6L45R**

**(6-speed)**

**BMW 3 Series  
Service Manual  
1984-1990**

**BMW 3 Series -  
E36 Restoration**

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**Tips &  
Techniques  
Excellence was  
Expected : the  
Complete History  
of the Sports and  
Racing Cars  
Porsche 911  
(Type 996)  
Service Manual  
1999, 2000, 2001,  
2002, 2003, 2004**

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**2005**

**1. 9, 2. 3, 2. 5i, 2.  
8, 3. 0i, 3. 2**

**Including Z3  
Roadster, Z3  
Coupe, M**

**Roadster: 1996,  
1997, 1998, 1999,  
2000, 2001 2002**

**Unbeatable BMW**  
*Electrical issues in  
European cars can*

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*be intimidating.*

*The Hack*

*Mechanic Guide to*

*European*

*Automotive*

*Electrical Systems*

*shows you how to*

*think about*

*electricity in your*

*car and then take*

*on real-world*

*electrical*

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*problems. The principles discussed can be applied to most conventional internal-combustion-engined vehicles, with a focus on European cars spanning the past six decades. Drawing*

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*on The Hack  
Mechanic's  
wisdom and  
experience, the 38  
chapters cover  
key electrical  
topics such as  
battery, starter,  
alternator,  
ignition, circuits,  
and relays.*

*Through a*

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*practical and informal approach featuring hundreds of full-color illustrations, author Rob Siegel takes the fear-factor out of projects like making wire repairs, measuring voltage drops, or*

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*figuring out if you  
have a bad fuel  
pump relay.*

*Essential tools  
such as  
multimeters  
(DVOM),  
oscillosopes, and  
scan tools are  
discussed, with  
special attention  
given to the*



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*automotive  
multimeter  
needed to  
troubleshoot  
many modern  
sensors. You'll get  
step-by-step  
troubleshooting  
procedures  
ranging from  
safely jump  
starting a battery*

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*to diagnosing  
parasitic current  
drain and vehicle  
energy diagnosis.  
And you'll find  
detailed testing  
procedures for  
most problematic  
electrical  
components on  
your European car  
such as oxygen*

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*sensors,  
crankshaft and  
camshaft sensors,  
wheel speed  
sensors, fuel  
pumps, solenoids,  
and actuators.  
Reading wiring  
diagrams and  
decoding the  
German DIN  
standard are also*

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*covered. Whether you are a DIY mechanic or a professional technician, The Hack Mechanic Guide to European Automotive Electrical Systems will increase your confidence in tackling*

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*automotive  
electrical problem-  
solving. This book  
applies to gasoline  
and diesel  
powered internal  
combustion  
engine vehicles.  
Not intended for  
hybrid or electric  
vehicles.*

*The full-color*

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*Porsche 911  
Carrera (Type  
996) Service  
Manual:  
1999-2005 is a  
comprehensive  
source of service  
information and  
specifications for  
Porsche 911 (Type  
996) Coupe, Targa  
and Convertible*

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*models from 1999  
to 2005. The aim  
throughout this  
manual has been  
simplicity and  
clarity, with  
practical  
explanations, step-  
by-step  
procedures and  
useful  
specifications.*

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*Whether you're a professional or a do-it-yourself Porsche owner, this manual will help you understand, care for and repair your Porsche. Engines covered:*

*1999-2001: 3.4 liter (M96.01,*



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*M96.02, M96.04)*

*2002-2005: 3.6  
liter (M96.03)*

*Transmissions  
covered: G96*

*(6-speed manual)*

*A96 (5-speed  
automatic)*

*The Volkswagen  
Jetta, Golf, GTI*

*Service Manual:  
1999-2005*

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*contains in-depth  
maintenance,  
service and repair  
information for  
Volkswagen Jetta,  
Golf and GTI  
models from 1999  
to 2005 built on  
the A4 platform.  
Whether you're a  
professional or a  
do-it-yourself*

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*Volkswagen  
owner, this  
manual will help  
you understand,  
care for, and  
repair your  
Volkswagen.*

*Engines covered: \*  
1.8L turbo  
gasoline (engine  
codes: AWD,  
AWW, AWP) \* 1.9L*

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*TDI diesel (engine  
code: ALH) \* 1.9L*

*Turbo diesel*

*Pumpe D se (PD)*

*(engine code:*

*BEW) \* 2.0L*

*gasoline (engine*

*codes: AEG, AVH,  
AZG, BBW, BEV) \**

*2.8L gasoline*

*(engine code: AFP,  
BDF)*

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*Transmissions  
covered (remove,  
install, external  
service): \* 02J  
5-speed manual \*  
02M 6-speed  
manual \* 01M  
4-speed automatic  
\* 09A 5-speed  
automatic  
If your car needs  
new paint, or even*

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*just a touch-up,  
the cost involved  
in hiring a  
professional can  
be more than you  
bargained for.  
Fortunately, there  
are less expensive  
alternatives—you  
can even paint  
your car at home!*

*In How to Paint*

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*Your Car On A Budget, author and veteran DIY hot rodder Pat Ganahl unveils dozens of secrets that will help anyone paint their own car. From simple scuff-and-squirt jobs to fullon, door-jamb-*

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*and-everything  
paint jobs, Ganahl  
covers everything  
you need to know  
to get a great  
looking coat of  
paint on your car  
and save lots of  
money in the  
process. This book  
covers painting  
equipment, the ins*



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*painting book ever  
written!*

*Membrane  
filtration guidance  
manual*

*101 Performance  
Projects for Your  
BMW 3 Series  
1982-2000*

*BMW 3 Series  
Service Manual:  
M3, 318i, 323i,*

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*325i, 328i, Sedan,  
Coupe and  
Convertible 1992,  
1993, 1994, 1995,  
1996, 1997, 1998*

*Bentley BMW 3  
Series Service  
Manual 1992-1998*

*BMW E30 - 3  
Series Restoration  
Bible*

*Haynes Repair*

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*Manual*

BMW 3 Series  
(E46) Service  
Manual M3, 323i,  
325i, 325xi, 328i,  
330i, 330xi,  
Sedan, Coupe,  
Convertible, Sport  
Wagon: 1999,  
2000, 2001, 2002,  
2003, 2004 2005  
The BMW 5 Series

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(E60, E61) Service  
Manual:

2004-2010

contains in-depth  
maintenance,

service and repair  
information for the

BMW 5 Series

from 2004 to 2010.

The aim

throughout has

been simplicity and

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practical  
explanations, step-  
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procedures and  
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professional or a  
do-it-yourself BMW  
owner, this manual  
helps you

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understand, care  
for and repair your  
BMW. discuss  
repairs more  
intelligently with a  
professional  
technician. Models  
covered 525i and  
530i \* M54 engine  
(2004-2005) \* N52  
engine  
(2006-2007) 528i \*

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N52K engine

(2008-2010) 535i \*

N54 twin turbo  
engine

(2008-2010) 545i \*

N62 V8 engine

(2004-2005) 550i \*

N62 TU V8 engine  
(2006-2010)

The BMW X5  
(E53) repair  
manual:



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Manual Online  
2000-2006

contains in-depth maintenance, service and repair information for BMW X5 models from 2000 to 2006. The aim throughout has been simplicity and clarity, with practical

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BMW. Models and  
engines: \* 3.0i

M54 engine,  
6-cylinder 3.0 liter

\* 4.4i M62 TU  
engine, V8 4.4 liter

\* 4.4i N62 engine,  
V8 4.4 liter

(Valvetronic) \*

4.6is M62 TU  
engine, V8 4.6 liter

\* 4.8is N62 engine,

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V8 4.8 liter

(Valvetronic)

Transmissions

(remove, install,  
external service): \*

Manual 5-speed

S5D 280Z \*

Manual 6-speed

GS6-37BZ \*

Automatic 5-speed

A5S 390R \*

Automatic 5-speed

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A5S 440Z \*

Automatic 6-speed

GA6HP26Z

The BMW Z3

Service Manual:

1996-2002 is a

comprehensive

source of service

information and

technical

specifications

available for the

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BMW Z3 Roadster  
and Coupe up  
through the 2002  
model year. New  
durable hardcover  
format - This BMW  
manual is now  
being published as  
a durable, long-  
lasting hardcover  
book designed to  
withstand many

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years of use in a professional shop or home garage. Though the do-it-yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information, the BMW owner

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who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician.



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Owner Insights on  
Driving,  
Performance and  
Service

BMW 3- & 5-series  
Service and Repair  
Manual

BMW 5 Series  
(E60, E61) Service  
Manual: 2004,  
2005, 2006, 2007,  
2008, 2009, 2010:

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525i, 525xi, 528i,  
528xi, 530i, 530xi,  
535i, 535xi, 545i,  
550i

BMW 3-Series  
(E36) 1992-1999

BMW 7 Series  
(E38) Service

Manual

Memoirs of a Hack  
Mechanic