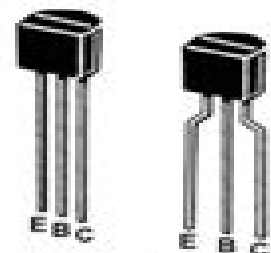


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Part No.	Type	Absolute Maximum			hfe min	Acceptable Substitute
		V _{CEO}	I _C	P _D		
2N3904	NPN	40V	200mA	625mW	100	2N4401, MPSA05
2N3906	PNP	40V	200mA	625mW	100	2N4403, MPSA55
2N4401	NPN	40V	600mA	625mW	80	MPSA05
2N4403	PNP	40V	600mA	625mW	60	MPSA55
2N5401	PNP	150V	600mA	625mW	60	MPSA92, KSP92
2N6517	NPN	350V	500mA	625mW	30	MPSA42, KSP42
2N6520	PNP	350V	500mA	625mW	30	MPSA92, KSP92
MPSA05	NPN	60V	500mA	625mW	100	2N4401
MPSA55	PNP	60V	500mA	625mW	50	2N4403
MPSA65	PNP	80V	500mA	625mW	50	2N5401
MPSA42	NPN	300V	500mA	625mW	25	KSP42, PSA42, 2N6517
MPSA92	PNP	300V	500mA	625mW	25	KSP92, 2N6520
KSP42	NPN	300V	500mA	625mW	40	MPSA42, PSA42, 2N6517
PSA42	NPN	300V	500mA	625mW	25	MPSA42, KSP42, 2N6517
KSP92	PNP	300V	500mA	625mW	25	MPSA92, 2N6520

This is the acceptable substitute guide for TO-92 packaged transistors used in my kits. I design to the broadest of part variation, so the kit will still work, indifferent to the actual part parameters. I do not "TWEAK", or "batch" parts. I will not make a kit, that requires such tight specs ! Those are high performance instruments, not a hobbyist kit !



TO-92

Transistor Reference Guide

John R. Barnes



Transistor Reference Guide:

The World Transistor Cross-reference Guide Wu hsien tien chi shu ch'u pan she,1976 Transistor cross-reference guide , *The World Transistor Cross-reference Guide* , *Transistor Reference Book* David G. Kilpatrick, William A. Dittrich,1964 *Instrumentation Reference Book* Walt Boyes,2009-11-25 The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of sensors computers and control systems This 4e of the Instrumentation Reference Book embraces the equipment and systems used to detect track and store data related to physical chemical electrical thermal and mechanical properties of materials systems and operations While traditionally a key area within mechanical and industrial engineering understanding this greater and more complex use of sensing and monitoring controls and systems is essential for a wide variety of engineering areas from manufacturing to chemical processing to aerospace operations to even the everyday automobile In turn this has meant that the automation of manufacturing process industries and even building and infrastructure construction has been improved dramatically And now with remote wireless instrumentation heretofore inaccessible or widely dispersed operations and procedures can be automatically monitored and controlled This already well established reference work will reflect these dramatic changes with improved and expanded coverage of the traditional domains of instrumentation as well as the cutting edge areas of digital integration of complex sensor control systems Thoroughly revised with up to date coverage of wireless sensors and systems as well as nanotechnologies role in the evolution of sensor technology Latest information on new sensor equipment new measurement standards and new software for embedded control systems networking and automated control Three entirely new sections on Controllers Actuators and Final Control Elements Manufacturing Execution Systems and Automation Knowledge Base Up dated and expanded references and critical standards *Electronics Engineer's Reference Book* F. F. Mazda,2013-10-22 Electronics Engineer s Reference Book Sixth Edition is a five part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems Part II covers physical phenomena such as electricity light and radiation often met with in electronic systems Part III contains chapters on basic electronic components and materials the building blocks of any electronic design Part IV highlights electronic circuit design and instrumentation The last part shows the application areas of electronics such as radar and computers CMOS Voltage References Chi-Wah Kok,Wing-Shan Tam,2012-12-19 A practical overview of CMOS circuit design this book covers the technology analysis and design techniques of voltage reference circuits The design requirements covered follow modern CMOS processes with an emphasis on low power low voltage and low temperature coefficient voltage reference design Dedicating a chapter to each stage of the design process the authors have organized the content to give readers the tools they need to implement the technologies themselves Readers will gain an understanding of device characteristics the practical considerations behind circuit topology and potential problems with each type of circuit Many design examples are used throughout most of which

have been tested with silicon implementation or employed in real world products This ensures that the material presented relevant to both students studying the topic as well as readers requiring a practical viewpoint Covers CMOS voltage reference circuit design from the basics through to advanced topics Provides an overview of basic device physics and different building blocks of voltage reference designs Features real world examples based on actual silicon implementation Includes analytical exercises simulation exercises and silicon layout exercises giving readers guidance and design layout experience for voltage reference circuits Solution manual available to instructors from the book s companion website This book is highly useful for graduate students in VLSI design as well as practicing analog engineers and IC design professionals Advanced undergraduates preparing for further study in VLSI will also find this book a helpful companion text *MOSFET Modeling & BSIM3 User's Guide* Yuhua Cheng,Chenming Hu,2007-05-08 Circuit simulation is essential in integrated circuit design and the accuracy of circuit simulation depends on the accuracy of the transistor model BSIM3v3 BSIM for Berkeley Short channel IGFET Model has been selected as the first MOSFET model for standardization by the Compact Model Council a consortium of leading companies in semiconductor and design tools In the next few years many fabless and integrated semiconductor companies are expected to switch from dozens of other MOSFET models to BSIM3 This will require many device engineers and most circuit designers to learn the basics of BSIM3 MOSFET Modeling BSIM3 User s Guide explains the detailed physical effects that are important in modeling MOSFETs and presents the derivations of compact model expressions so that users can understand the physical meaning of the model equations and parameters It is the first book devoted to BSIM3 It treats the BSIM3 model in detail as used in digital analog and RF circuit design It covers the complete set of models i e I V model capacitance model noise model parasitics model substrate current model temperature effect model and non quasi static model MOSFET Modeling BSIM3 User s Guide not only addresses the device modeling issues but also provides a user s guide to the device or circuit design engineers who use the BSIM3 model in digital analog circuit design RF modeling statistical modeling and technology prediction This book is written for circuit designers and device engineers as well as device scientists worldwide It is also suitable as a reference for graduate courses and courses in circuit design or device modelling Furthermore it can be used as a textbook for industry courses devoted to BSIM3 MOSFET Modeling BSIM3 User s Guide is comprehensive and practical It is balanced between the background information and advanced discussion of BSIM3 It is helpful to experts and students alike Robust Electronic Design Reference Book: no special title John R. Barnes,2004 If you design electronics for a living you need Robust Electronic Design Reference Book Written by a working engineer who has put over 115 electronic products into production at Sycor IBM and Lexmark Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that Work Are safe and reliable Can be manufactured tested repaired and serviced May be sold and used worldwide Can be adapted or enhanced to meet new and changing requirements *Illustrated Guide to Basic Electronics* John P. Steiner,1984

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web aug 7 2018 looking for a pinout diagram for the k1100rs 1996 motronic ecu connector we have a no start issue and i need to wring out the engine harness for continuity to make sure wire aren t broke somewhere anyone have a link to where i could find the diagram thanks

autospeed the bosch me motronic system part 1 - Dec 28 2021

web this bosch diagram shows the inputs and outputs of a typical me motronic system in addition to two way diagnostics and controller area network buses the can buses communicate with other systems such as the automatic transmission ecu the inputs comprise vehicle speed transmission gear camshaft position crankshaft speed and

e28 motronic ecu diagram bronzit saloon garage - Nov 07 2022

web e28 motronic ecu pin out diagram with a chart describing the circuit related to the pins easy to follow and understand

bosch motronic 1 7 ecu remap flashing guide winols - May 01 2022

web jul 4 2018 the motronic ecu s are used in a lot of cars this document may cover information that is the same for other motronic series the motronic 1 7 has one 27c256 uv eeprom inside it has a dil28 package and is mounted in a socket so removing it is easy so this article show a guide on how to remap flashing bosch motronic 1 7 ecu

mercedes me9 7 ecu pinout transpondery com - May 13 2023

web pinout connection diagram of bosch motronic me9 7 ecu used for mercedes vehicles

the motronic engine management system pelican parts - Sep 05 2022

web sep 29 2020 problem of misfiring at lower rpm and hesitaion above 5k rpm has been confirmed by swapping out the ecu with another from a 1987 911 repairing my ecu has proved difficult with no faults found on test rig and finding a replacement so far impossible sensors and dme relay renewed are circuit diagrams available for these ecu s

motronic wikipedia - Oct 06 2022

web bosch monopoint motronic is the trade name given to a range of digital engine control units developed by robert bosch gmbh commonly known as bosch which combined control of fuel injection and ignition in a single unit

[motronic control unit for cng systems bosch mobility](#) - Jun 02 2022

web technical specifications product benefits contact further interesting topics electronic engine control unit for cng systems the control unit for cng controls the mixture formation air mass injected cng mass and time of the injection ignition and exhaust gas treatment

block diagram of a motronic engine management system ecu - Jul 15 2023

web block diagram of a motronic engine management system ecu figure adapted from 5 the figure shows how sensors and actuators represent a crucial element in governing the activities of a

[common peugeot ecu pinouts 205gtidrivers com](#) - Feb 27 2022

web aug 9 2022 diagram s16 mi16 gti6 vts turbo posted march 19 2014 edited thought i would add a few of the most common ecu pinouts and wiring diagrams as i ve managed to get a pdf writer working as well as a copy of autodata unfortunately due to the file limits it s one per post so lets start with the 306 s16 bosch motronic mp3 2

ecu pinout and electrical tests e30 rts rtsauto com - Jan 29 2022

web oct 27 2012 to access it open your glove box and undo the two screws holding the plastic cover that is at the ceiling of the glove box compartment under there you will find the ecu and the connector interesting fact the 153 motronic 1 1 ecu is directly swappable without any modification or otherwise with all motronic 1 3 ecu s

bosch motronic m5 2 1 system overview nanocom - Aug 16 2023

web bosch motronic m5 2 1 system overview this is quite a sophisticated petrol engine management system which is manufactured by bosch this ecu was one of the first flash memory based ecu s with a huge memory the entire code that controls it s operationally and functionality including its self diagnostic capability

motronic 1 0 e30 zone wiki - Mar 31 2022

web overview motronic 1 0 has some key differences to its far more popular motronic 1 3 variant for instance motronic 1 0 doesn t have an o2 sensor lambda control motronic 1 0 uses a 2 row 35 pin connector on the ecu instead of the three row 55 pin one motronic 1 0 has an additional idle air bypass screw on the throttle body

[volkswagen engine management ecu s vag links](#) - Feb 10 2023

web aug 3 2007 golf 2 litre aba 94 95 bosch motronic 2 9 0 261 203 725 037 906 258 ah 0 261 203 726 golf 2 litre aba 94 96 bosch motronic 2 9 0 261 203 445 037 906 258 t 0 261 203 446 golf 2 litre aba 95 96 bosch motronic 2 9 0 261 204 017 037 906 258 ae 0 261 204 018 vw ecu codes page 4 of 11

[motronic 3b pinout s2 central](#) - Jul 03 2022

web the image below depicts the pin locations as if viewing the connector on the ecu the image below depicts the 3b ecu pinout when viewing the cable assembly the following table defines the functionality of each of the 55 pins on the 3b motronic ecu

electronic control unit ecu springer - Aug 04 2022

web by a microcontroller the ecu and its components are referred to as hardware the motronic ecu contains all of the algorithms for open and closed loop control needed to govern the engine management processes ignition induction and mixture formation etc operating conditions the ecu operates in an extremely harsh and demanding

motronic ecu wiring diagram fuses and sensors quattrworld - Jan 09 2023

web mar 20 2013 motronic ecu wiring diagram fuses and sensors edigreg 2009 10 10 14 48 23 112667 views note the wiring for the n122 and n127 pos units in the diagram is wrong the correct wiring is urs4boy 2009 10 11 03 08 37 89174 views

motronic ecu me7 1 tuning tips and guides uobdii official - Apr 12 2023

web jan 23 2020 motronic ecu me7 1 tuning tips and guides so since i am now very interested in keeping everything as stock as possible as far as engine controls goes i've gotten back into researching information on what tools are needed to gain access to the ecu program flash and decoding the information in it to modify the tune and send it back

1 8 ltr 110 kw motronic engine code aeb current flow diagram - Jun 14 2023

web passat current flow diagram no 47 1 1 8 ltr 110 kw motronic engine code aeb from august 1997 for alternatives to relay and fuse positions as well as multi pin connector wiring see fitting locations section