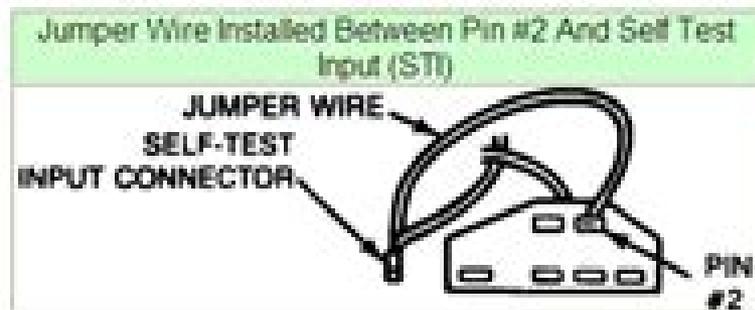


The key ON engine OFF self test the Engine Control Assembly (ECA) tests the systems circuits. Any faults that are detected are reported as hard (on-demand) codes. A code 11 indicates that no circuits faults have been found. Any hard codes identified should be diagnosed and repaired prior to continuing with the computed [ignition timing](#) check or the engine running check. After the repairs are made, repeat the key ON engine OFF self test to verify the repair.

#### NOTE:

- It may be necessary to service non-Electronic Engine Control (EEC-IV) faults before running the quick test.
- Continuous memory codes recorded in this procedure will be used for diagnosis in **CONTINUOUS MEMORY CODES** after hard codes are corrected and a code 11 (pass) is received in BOTH the key ON engine OFF and the engine RUNNING self tests.
- Deviation from this procedure may cause the output of false codes.
- Refer to **CODE OUTPUT FORMAT** for more information on how to read the code output.

#### PROCEDURE:



1. Verify that the vehicle has been properly prepared according to **VEHICLE PREPARATION**.
2. START the engine and bring to normal operating temperature.
3. Turn OFF the engine and wait for 10 seconds.
4. Install a jumper wire between the Self Test Input (STI) and the Signal Return (SIG RTN) (pin #2) at the self test connectors.
5. Turn the [ignition switch](#) to the ON position.
6. Record all service codes displayed by the Malfunction Indicator Light (MIL).
7. Refer to **QUICK TEST CODES AND DEFINITIONS** for the appropriate service code chart.

# Ford Ranger Computer Codes

**S Baum**



## **Ford Ranger Computer Codes:**

JPL and the American Space Program Clayton R. Koppes, 1982-01-01 *Congressional Record* United States. Congress, 1992 **Monthly Catalogue, United States Public Documents**, 1985-07 Monthly Catalog of United States Government Publications, 1985 **Miscellaneous Publication**, 1980 *Sunset*, 1993 **Legislative History of the Energy Policy Act of 1992**, 1994 **Searcher**, 2008 **Ad \$ Summary**, 1999 Advertising expenditure data across ten media consumer magazines Sunday magazines newspapers outdoor network television spot television syndicated television cable television network radio and national spot radio Lists brands alphabetically and shows total ten media expenditures media used parent company and PIB classification for each brand Also included in this report are industry class totals and rankings of the top 100 companies of the ten media *Automotive Computers and Digital Instrumentation* Robert N. Brady, 1988 Code Name Handbook Defense Marketing Services, inc, 1978 **Mechanix Illustrated**, 1983 *Government Reports Announcements & Index*, 1996 **GM Full-size Pick-ups** John Haynes, 2005-01-23 Haynes manuals are written and photographed from hands on experience gained by a complete teardown and rebuild of the specific vehicle Hundreds of photographs depict repair procedures wiring diagrams owner maintenance emissions systems and more

**Semiconductor Design and Implementation Issues in Integrated Vehicle Electronics** John H. Hall, 2005 This major research study provides a fresh critical look at the way automobile electronics are and should be built Written by Silicon Valley pioneer John Hall this book is based on his nearly 40 years of experience in developing and producing semiconductors for the automobile industry and other customers Highly readable and comprehensible for even beginning students of electronics and semiconductor design this volume provides an in depth explanation of the factors to be considered when building vehicle systems Starting with a concise history of vehicle electronics Hall walks the reader through the environmental conditions faced by these systems and the variety of failure mechanisms that can occur Basic and advanced semiconductor issues raised by vehicle implementation are then discussed in detail A wide range of issues confronting designers from over marketing of risky features to time and cost constraints are explained Complex electronic modules from many different manufacturers are examined and discussed as real world case studies of good and bad design techniques Hall concludes by providing design recommendations that will allow vehicle electronics system developers to build much tougher devices at little or no incremental production cost This book is the first major work to focus on key issues emerging as major causes of safety and performance problems Vehicle makers increasingly seek market advantages by providing ever more capable electronics in their products While these features add much value to vehicles they fail in ways that are beyond the experience and comprehension of most technicians and accident investigators By combining decades of design experience and innovation with extensive research Hall has produced unique insights and explanations so engineers can prevent most or perhaps all of these problems John Hall is one of Silicon Valley s most prolific independent pioneers and

inventors He founded Union Carbide s semi conductor operation in 1962 He is a founder of Interstil and Micro Power Systems He is the inventor of the first electronic watch first LCD digital watch first CMOS liquid crystal display hand held calculator color autofocus cameras among many successful commercial products He has worked for many American and foreign automakers on specific projects such as integrated two way radios and seat belt interlocks He is working with DoD on hardening electronics systems against non nuclear events *1993 Mitchell Domestic Light Trucks & Vans Service & Repair* Mitchell International,1993 *Government Reports Annual Index* ,1989 **Haynes Ford Focus 2000 and 2001** Jay Storer,John Harold Haynes,2002 Inside this manual the reader will learn to do routine maintenance tune up procedures engine repair along with aspects of your car such as cooling and heating air conditioning fuel and exhaust emissions control ignition brakes suspension and steering electrical systems wiring diagrams Computerized Engine Control Peter King,Dick H. King,1998 Computerized Engine Controls 5E 1998 Update to the Fifth Edition explores the many ways in which computers affect the driveability performance fuel economy and emissions quality of today s vehicles By referencing the fundamentals of electricity and computers this text illustrates how to systematically apply the information to products of virtually all automobile manufacturers Each chapter contains real world examples of applications of the information presented selected lists of technical terms introduced diagnostic exercises and review questions *General Motors N-cars Automotive Repair Manual* Richard Lindwall,John Harold Haynes,1995 GM N Cars 1985 95 Shop Manual Haynes 376 pgs 902 ill

## **Ford Ranger Computer Codes** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ford Ranger Computer Codes**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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