

Crusader Engine Sensor Diagram

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Technology and the Air Force

How to Use and Upgrade to GM Gen III LS-Series Powertrain Control Systems

The venerable Jeep 4.0-liter inline-six engine has powered millions of Jeeps, including CJs, YJs, Wranglers, Cherokees, and Wagoneers. The 4.0 delivers adequate horsepower from the factory, but many off-road drivers want more horsepower and torque to conquer challenging terrain, which means these engines are often built and modified. The Jeep 4.0, or 242-ci, is affordable, abundant, exceptionally durable, and many consider it one of the best 4x4 off-road engines. In this Workbench title, veteran author and Chrysler/Jeep engine expert Larry Shepard covers the rebuild of an entire engine in exceptional detail. He also delves into popular high-performance modifications and build-ups. Step-by-step photos and captions cover each crucial step of the engine disassembly. He shows the inspection of all critical parts, including block, heads, rotating assembly, intake, and exhaust. Critical machining processes are covered, such as decking the block, line boring, and overboring the block. The book provides exceptional detail during the step-by-step assembly so your engine is strong and reliable. Installing a larger-displacement rotating assembly or stroker package is one of the most cost-effective ways to increase performance, and the author covers a stroker package installation in detail. With millions of Jeep 4.0 engines in the marketplace (which are subjected to

extreme use), many of these engines require a rebuild. In addition, many owners want to extract more torque and horsepower from their 4.0 engines so these engine are also modified. Until now, there has not been a complete and authoritative guide that covers the engine rebuild and build-up process from beginning to end. Jeep 4.0 Engines is the essential guide for an at-home mechanic to perform a professional-caliber rebuild or a high-performance build-up.

Flying beyond the stall

Wind Power in Power Systems

A movement emerges to challenge the tightening of intellectual property law around the world.

The Marine Electrical and Electronics Bible

This densely illustrated, hands-on guide to diesel engine maintenance, troubleshooting, and repair renders its subject more user-friendly than ever before. Finally, boatowners who grew up with gas engines can set aside their fears about tinkering with diesels, which are safer and increasingly more prevalent. As in other volumes in the International Marine Sailboat Library, every step of every procedure is illustrated, so that users can work from the illustrations alone. The troubleshooting charts in the second chapter--probably the most

comprehensive ever published--are followed by system-specific chapters, allowing readers to quickly diagnose problems, then turn to the chapter with solutions. Diesel engine systems covered include: mechanical; oil; fresh- and raw-water cooling; low- and high-pressure fuel; exhaust; starting; charging; transmission and stern gear.

From Gutenberg to the Internet

NASA's Environmentally Responsible Aviation (ERA) project began in 2009 to explore and document the feasibility, benefits and technical risks of advanced vehicle concepts and enabling technologies for reducing aviation's overall impact on the environment. Goals included reducing community noise footprints, fuel burn, and nitrogen oxide emissions. This book reviews the advanced aircraft design concepts, construction technologies, and propulsion advancements that were researched by the ERA project.

Boat Owners Manual

Comparing U. S. Army Systems with Foreign Counterparts

This book explores the nature of creativity in engineering and technology, and how it relates to creativity in art or science. Lienhard has for ten years done a twice-weekly radio show, carried on about 35 NPR stations, consisting of 3-minute essays on

technology. He uses the substance of selected segments of his radio program to create a continuous narrative presenting his insights on technological creativity. This book has the same title as his radio program, to further draw the attention of his one million listeners.

Gradual failure : the air war over North Vietnam 1965-1966

A Dictionary of English Synonymes and Synonymous Or Parallel Expressions

This book is the first treatment of Bruno Latour specifically as a philosopher. Part One covers four key works in Latour's career in metaphysics: *Irreductions*, *Science in Action*, *We Have Never Been Modern*, and *Pandora's Hope*. In Part Two, the author identifies Latour's key contributions to ontology, while criticizing his focus on the relational character of actors at the expense of their autonomous reality."

Energy, Complexity and Wealth Maximization

"This is not a book about charismatic visionary leaders. It is not about visionary product concepts or visionary products or visionary market insights. Nor is it about just having a corporate vision. This is a book about something far more important, enduring, and substantial. This is a book about visionary

companies." So write Jim Collins and Jerry Porras in this groundbreaking book that shatters myths, provides new insights, and gives practical guidance to those who would like to build landmark companies that stand the test of time. Drawing upon a six-year research project at the Stanford University Graduate School of Business, Collins and Porras took eighteen truly exceptional and long-lasting companies -- they have an average age of nearly one hundred years and have outperformed the general stock market by a factor of fifteen since 1926 -- and studied each company in direct comparison to one of its top competitors. They examined the companies from their very beginnings to the present day -- as start-ups, as midsize companies, and as large corporations. Throughout, the authors asked: "What makes the truly exceptional companies different from other companies?" What separates General Electric, 3M, Merck, Wal-Mart, Hewlett-Packard, Walt Disney, and Philip Morris from their rivals? How, for example, did Procter & Gamble, which began life substantially behind rival Colgate, eventually prevail as the premier institution in its industry? How was Motorola able to move from a humble battery repair business into integrated circuits and cellular communications, while Zenith never became dominant in anything other than TVs? How did Boeing unseat McDonnell Douglas as the world's best commercial aircraft company -- what did Boeing have that McDonnell Douglas lacked? By answering such questions, Collins and Porras go beyond the incessant barrage of management buzzwords and fads of the day to discover timeless qualities that have consistently distinguished outstanding companies. They also provide inspiration to

all executives and entrepreneurs by destroying the false but widely accepted idea that only charismatic visionary leaders can build visionary companies. Filled with hundreds of specific examples and organized into a coherent framework of practical concepts that can be applied by managers and entrepreneurs at all levels, *Built to Last* provides a master blueprint for building organizations that will prosper long into the twenty-first century and beyond.

Troubleshooting Marine Diesel Engines, 4th Ed.

The idea of *The Fingerprint Sourcebook* originated during a meeting in April 2002. Individuals representing the fingerprint, academic, and scientific communities met in Chicago, Illinois, for a day and a half to discuss the state of fingerprint identification with a view toward the challenges raised by Daubert issues. The meeting was a joint project between the International Association for Identification (IAI) and West Virginia University (WVU). One recommendation that came out of that meeting was a suggestion to create a sourcebook for friction ridge examiners, that is, a single source of researched information regarding the subject. This sourcebook would provide educational, training, and research information for the international scientific community.

The Paths of Heaven

The computer unlike other inventions is universal; you can use a computer for many tasks: writing,

composing music, designing buildings, creating movies, inhabiting virtual worlds, communicating This popular science history isn't just about technology but introduces the pioneers: Babbage, Turing, Apple's Wozniak and Jobs, Bill Gates, Tim Berners-Lee, Mark Zuckerberg. This story is about people and the changes computers have caused. In the future ubiquitous computing, AI, quantum and molecular computing could even make us immortal. The computer has been a radical invention. In less than a single human life computers are transforming economies and societies like no human invention before.

Computers Take Flight

The Universal Machine

Considered one of most influential U. S. military officers of the twentieth century, William E. DePuy (1919--1992) developed the education and training program that regenerated the U.S. Army after the Vietnam War. Henry G. Gole draws from sources such as transcripts and letters in DePuy's personal papers, interviews with those who knew him best, and secondary literature to trace DePuy's life from child to decorated officer to commander of Training and Doctrine Command. General William E. DePuy: Preparing the Army for Modern War is the first book-length biography of the important figure who revolutionized military training and created a modern program for doctrine, education, and combat

development that is still used today.

Maritime Archaeology

The U.S. Army's Future Combat Systems program aimed to field an ambitious system of systems, with novel technologies integrated via an advanced wireless network. The largest and most ambitious planned acquisition program in the Army's history, it was cancelled in 2009, and some of its efforts transitioned to follow-on programs. This report documents the program's complex history and draws lessons from its experiences.

Wind Energy Engineering

Until the Sea Shall Free Them

More and more sailors and powerboaters are buying and relying on electronic and electric devices aboard their boats, but few are aware of proper installation procedures or how to safely troubleshoot these devices if they go on the blink.

Helmet-mounted Displays

In this thought-provoking work, Tony D. Sampson presents a contagion theory fit for the age of networks. Unlike memes and microbial contagions, Virality does not restrict itself to biological analogies and medical metaphors. It instead points toward a theory of contagious assemblages, events,

and affects. For Sampson, contagion is not necessarily a positive or negative force of encounter; it is how society comes together and relates. Sampson argues that a biological knowledge of contagion has been universally distributed by way of the rhetoric of fear used in the antivirus industry and other popular discourses surrounding network culture. This awareness is also detectable in concerns over too much connectivity, such as problems of global financial crisis and terrorism. Sampson's "virality" is as established as that of the biological meme and microbe but is not understood through representational thinking expressed in metaphors and analogies. Rather, Sampson interprets contagion theory through the social relationalities first established in Gabriel Tarde's microsociology and subsequently recognized in Gilles Deleuze's ontological worldview. According to Sampson, the reliance on representational thinking to explain the social behavior of networking—including that engaged in by nonhumans such as computers—allows language to overcategorize and limit analysis by imposing identities, oppositions, and resemblances on contagious phenomena. It is the power of these categories that impinges on social and cultural domains. Assemblage theory, on the other hand, is all about relationality and encounter, helping us to understand the viral as a positively sociological event, building from the molecular outward, long before it becomes biological.

Lessons from the Army's Future Combat Systems Program

In his latest book, Calder walks the reader through the repair, maintenance, and setting up of the boat's primary systems, including the electrical system, electronics equipment, generator sets, solar panels, wind and water generators, the engine, transmission, pumps, steering, waste disposal systems, and more. Destined to become a highly trusted companion aboard all types of boats for years to come.

Intelligent Algorithms in Ambient and Biomedical Computing

This book is about the mechanisms of wealth creation, or what we like to think of as evolutionary "progress." The massive circular flow of goods and services between producers and consumers is not a perpetual motion machine; it has been dependent for the past 150 years on energy inputs from a finite storage of fossil fuels. In this book, you will learn about the three key requirements for wealth creation, and how this process acts according to physical laws, and usually after some part of the natural wealth of the planet has been exploited in an episode of "creative destruction." Knowledge and natural capital, particularly energy, will interact to power the human wealth engine in the future as it has in the past. Will it sputter or continue along the path of evolutionary progress that we have come to expect? Can the new immaterial wealth of information and ideas, which makes up the so-called knowledge economy, replace depleted natural wealth? These questions have no simple answers, but this masterful book will help you to understand the grand challenge of our time. Praise

for Energy, Complexity and Wealth Maximization: “ people who run the modern world (politicians, economists and lawyers) have a very poor grasp of how it really works because they do not understand the fundamentals of energy, exergy and entropy those decision-makers would greatly benefit from reading this book ” - Vaclav Smil, Distinguished Professor Emeritus, University of Manitoba “ A grandiose design; impressive, worth reading and reflecting!” - Prof. Dr. Ernst Ulrich von Weizäcker, Founder of Wuppertal Institute; Co-President of the Club of Rome, Former Member of the German Bundestag, co-chair of the UN’s Resource Panel “ The book is a must read for concerned citizens and decision makers across the globe.” - RK Pachauri, Founder and Executive Vice Chairman, The Energy and Resources Institute (TERI) and ex-chair, International Panel on Climate Change (IPCC)

Jeep 4.0 Engines

Jeremy Green's systematic overview of maritime archaeology offers a step-by-step description of this fast-growing field. With new information about the use of computers and Global Positioning Systems, the second edition of this handbook shows how to extract as much information as possible from a site, how to record and document the data, and how to act ethically and responsibly with the artifacts. Treating underwater archaeology as a discipline, the book demonstrates how archaeologists, "looters," academics, and governments interact and how the market for archaeological artifacts creates obstacles

and opportunities for these groups. Well illustrated and comprehensive in its approach to the subject, this book provides an essential foundation for everybody interested in underwater environments, submerged land structures, and conditions created by sea level changes.

The Engines of Our Ingenuity

Hundreds of photos, charts, and diagrams guide readers through the rebuilding process of their small-block Chevy engine. Each step, from disassembly and inspection through final assembly and tuning, is presented in an easy-to-read, user-friendly format.

Flight International

A devastating disaster at sea . . . an officer who refuses to hide the truth. . . a courtroom confrontation with far-reaching implications . . . The Perfect Storm meets A Civil Action in a gripping account of one of the most significant shipwrecks of the twentieth century. In 1983 the Marine Electric, a “reconditioned” World War II vessel, was on a routine voyage thirty miles off the East Coast of the United States when disaster struck. As the old coal carrier sank, chief mate Bob Cusick watched his crew—his friends and colleagues—succumb to the frigid forty-foot waves and subzero winds of the Atlantic. Of the thirty-four men aboard, Cusick was one of only three to survive. And he soon found himself facing the most critical decision of his life: whether to stand by the Merchant Marine officers’ unspoken code of silence,

or to tell the truth about why his crew and hundreds of other lives had been unnecessarily sacrificed at sea. Like many other ships used by the Merchant Marine, the Marine Transport Line's Marine Electric was very old and made of "dirty steel" (steel with excess sulfur content). Many of these vessels were in terrible condition and broke down frequently. Yet the government persistently turned a blind eye to the potential dangers, convinced that the economic return on keeping these ships was worth the risk. Cusick chose to blow the whistle. Until the Sea Shall Free Them re-creates in compelling detail the wreck of the Marine Electric and the legal drama that unfolded in its wake. With breathtaking immediacy, Robert Frump, who covered the story for the Philadelphia Inquirer, describes the desperate battle waged by the crew against the forces of nature. Frump also brings to life Cusick's internal struggle. He knew what happened to those who spoke out against the system, knew that he too might be stripped of his license and prosecuted for "losing his ship," yet he forged ahead. In a bitter lawsuit with owners of the ship, Cusick emerged victorious. His expose of government inaction led to vital reforms in the laws regarding the safety of ships; his courageous stand places him among the unsung heroes of our time.

Interavia

The second edition of the highly acclaimed Wind Power in Power Systems has been thoroughly revised and expanded to reflect the latest challenges associated with increasing wind power penetration

levels. Since its first release, practical experiences with high wind power penetration levels have significantly increased. This book presents an overview of the lessons learned in integrating wind power into power systems and provides an outlook of the relevant issues and solutions to allow even higher wind power penetration levels. This includes the development of standard wind turbine simulation models. This extensive update has 23 brand new chapters in cutting-edge areas including offshore wind farms and storage options, performance validation and certification for grid codes, and the provision of reactive power and voltage control from wind power plants. Key features: Offers an international perspective on integrating a high penetration of wind power into the power system, from basic network interconnection to industry deregulation; Outlines the methodology and results of European and North American large-scale grid integration studies; Extensive practical experience from wind power and power system experts and transmission systems operators in Germany, Denmark, Spain, UK, Ireland, USA, China and New Zealand; Presents various wind turbine designs from the electrical perspective and models for their simulation, and discusses industry standards and world-wide grid codes, along with power quality issues; Considers concepts to increase penetration of wind power in power systems, from wind turbine, power plant and power system redesign to smart grid and storage solutions. Carefully edited for a highly coherent structure, this work remains an essential reference for power system engineers, transmission and distribution network operator and planner, wind turbine designers, wind project

developers and wind energy consultants dealing with the integration of wind power into the distribution or transmission network. Up-to-date and comprehensive, it is also useful for graduate students, researchers, regulation authorities, and policy makers who work in the area of wind power and need to understand the relevant power system integration issues.

The Fingerprint

Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years. In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi-popular level. These articles are written by the world authorities in their respective fields. This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner. This volume covers five aspects related to light. The first presents two articles, one on the history of the nature of light, and the other on the scientific achievements of Ibn-Haitham (Alhazen), who is broadly considered the father of modern optics. These are then followed by an article on ultrafast phenomena and the invisible world. The third part includes papers on specific sources of light, the discoveries of which have revolutionized optical technologies in our lifetime. They discuss the nature and the characteristics of lasers, Solid-state lighting based on the Light Emitting Diode (LED) technology,

and finally modern electron optics and its relationship to the Muslim golden age in science. The book's fourth part discusses various applications of optics and light in today's world, including biophotonics, art, optical communication, nanotechnology, the eye as an optical instrument, remote sensing, and optics in medicine. In turn, the last part focuses on quantum optics, a modern field that grew out of the interaction of light and matter. Topics addressed include atom optics, slow, stored and stationary light, optical tests of the foundation of physics, quantum mechanical properties of light fields carrying orbital angular momentum, quantum communication, and Wave-Particle dualism in action.

General William E. DePuy

This book is the outcome of a series of discussions at the Philips Symposium on Intelligent Algorithms, held in Eindhoven in December 2004. It offers exciting and practical examples of the use of intelligent algorithms in ambient and biomedical computing. It contains topics such as bioscience computing, database design, machine consciousness, scheduling, video summarization, audio classification, semantic reasoning, machine learning, tracking and localization, secure computing, and communication.

Jane's International Defense Review

To judge by the dictum of al-Ja~i?: (d. A.D. 869), 'Wisdom has descended upon these three: the brain of the Byzantine, the hands of the Chinese, and the

tongue of the Arab', in the great age of the

Boatowner's Mechanical and Electrical Manual

The organizing principle for the research was the Army's warfighting functions. These functions include movement and maneuver (air and ground), intelligence, fires (indirect), sustainment, mission command, and protection. The comparison of the Army's systems with their foreign counterparts was performed within this framework. The primary data used to develop comparisons were the on-the-record attributes of a system, such as the range of weapons and the munitions they fire, weight and protection levels of vehicles, carrying capacity of vehicles either in terms of numbers of personnel or cargo, and range and payload characteristics of helicopters. In addition to performing direct system-to-system comparisons, the research was able to identify crosscutting insights and issues that spanned several of the warfighting functions.

Pre-Incident Indicators of Terrorist Incidents

This is the fourth volume in an operational and chronological series covering the U.S. Marine Corps' participation in the Vietnam War. This volume details the change in focus of the III Marine Amphibious Force (III MAF), which fought in South Vietnam's northernmost corps area, I Corps. This volume, like its predecessors, concentrates on the ground war in I

Corps and III MAF's perspective of the Vietnam War as an entity. It also covers the Marine Corps participation in the advisory effort, the operations of the two Special Landing Forces of the U.S. Navy's Seventh Fleet, and the services of Marines with the staff of the U.S. Military Assistance Command, Vietnam. There are additional chapters on supporting arms and logistics, and a discussion of the Marine role in Vietnam in relation to the overall American effort.

Built to Last

The General Motors G-Body is one of the manufacturer's most popular chassis, and includes cars such as Chevrolet Malibu, Monte Carlo, and El Camino; the Buick Regal, Grand National, and GNX; the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more. This traditional and affordable front engine/rear-wheel-drive design lends itself to common upgrades and modifications for a wide range of high-performance applications, from drag racing to road racing. Many of the vehicles GM produced using this chassis were powered by V-8 engines, and others had popular turbocharged V-6 configurations. Some of the special-edition vehicles were outfitted with exclusive performance upgrades, which can be easily adapted to other G-Body vehicles. Knowing which vehicles were equipped with which options, and how to best incorporate all the best-possible equipment is thoroughly covered in this book. A solid collection of upgrades including brakes, suspension, and the installation of GMs most popular modern engine-the LS-Series V-8-are all covered in great detail. The

aftermarket support for this chassis is huge, and the interchangeability and affordability are a big reason for its popularity. It's the last mass-produced V-8/rear-drive chassis that enthusiasts can afford and readily modify. There is also great information for use when shopping for a G-Body, including what areas to be aware of or check for possible corrosion, what options to look for and what should be avoided. No other book on the performance aspects of a GM G-Body has been published until now, and this book will serve as the bible to G-Body enthusiasts for years to come.

International Aerospace Abstracts

Wind Energy Engineering: A Handbook for Onshore and Offshore Wind Turbines is the most advanced, up-to-date and research-focused text on all aspects of wind energy engineering. Wind energy is pivotal in global electricity generation and for achieving future essential energy demands and targets. In this fast moving field this must-have edition starts with an in-depth look at the present state of wind integration and distribution worldwide, and continues with a high-level assessment of the advances in turbine technology and how the investment, planning, and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies looking at how recent research developments can be applied. Written by some of the most forward-thinking professionals in the field and giving a complete examination of one of the most promising and efficient sources of renewable energy, this book

is an invaluable reference into this cross-disciplinary field for engineers. Contains analysis of the latest high-level research and explores real world application potential in relation to the developments Uses system international (SI) units and imperial units throughout to appeal to global engineers Offers new case studies from a world expert in the field Covers the latest research developments in this fast moving, vital subject

Access to Knowledge in the Age of Intellectual Property

Virality

The X-31 Enhanced Fighter Maneuverability Demonstrator was unique among experimental aircraft. A joint effort of the United States and Germany, the X-31 was the only X-plane to be designed, manufactured, and flight tested as an international collaboration. It was also the only X-plane to support two separate test programs conducted years apart, one administered largely by NASA and the other by the U.S. Navy, as well as the first X-plane ever to perform at the Paris Air Show. Flying Beyond the Stall begins by describing the government agencies and private-sector industries involved in the X-31 program, the genesis of the supermaneuverability concept and its initial design breakthroughs, design and fabrication of two test airframes, preparation for the X-31's first flight, and the first flights of Ship #1 and Ship #2. Subsequent

chapters discuss envelope expansion, handling qualities (especially at high angles of attack), and flight with vectored thrust. The book then turns to the program's move to NASA's Dryden Flight Research Center and actual flight test data. Additional tasking, such as helmet-mounted display evaluations, handling quality studies, aerodynamic parameter estimation, and a "tailless" study are also discussed. The book describes how, in the aftermath of a disastrous accident with Ship #1 in 1995, Ship #2 was prepared for its outstanding participation in the Paris Air Show. The aircraft was then shipped back to Edwards AFB and put into storage until the late 1990s, when it was refurbished for participation in the U. S. Navy's VECTOR program. The book ends with a comprehensive discussion of lessons learned and includes an Appendix containing detailed information.

The Book of Knowledge of Ingenious Mechanical Devices

U.S. Marines In Vietnam: Fighting The North Vietnamese, 1967

This short paperback gives a wealth of information on small boats and their safe operation.

How to Rebuild Your Small-Block Chevy

Proceedings of a symposium co-sponsored by the Air Force Historical Foundation and the Air Force History and Museums Program. The symposium covered

relevant Air Force technologies ranging from the turbo-jet revolution of the 1930s to the stealth revolution of the 1990s. Illustrations.

Optics in Our Time

From Gutenberg to the Internet presents 63 original readings from the history of computing, networking, and telecommunications arranged thematically by chapters. Most of the readings record basic discoveries from the 1830s through the 1960s that laid the foundation of the world of digital information in which we live. These readings, some of which are illustrated, trace historic steps from the early nineteenth century development of telegraph systems---the first data networks---through the development of the earliest general-purpose programmable computers and the earliest software, to the foundation in 1969 of ARPANET, the first national computer network that eventually became the Internet. The readings will allow you to review early developments and ideas in the history of information technology that eventually led to the convergence of computing, data networking, and telecommunications in the Internet. The editor has written a lengthy illustrated historical introduction concerning the impact of the Internet on book culture. It compares and contrasts the transition from manuscript to print initiated by Gutenberg's invention of printing by moveable type in the 15th century with the transition that began in the mid-19th century from a print-centric world to the present world in which printing co-exists with various electronic media that

converged to form the Internet. He also provided a comprehensive and wide-ranging annotated timeline covering selected developments in the history of information technology from the year 100 up to 2004, and supplied introductory notes to each reading. Some introductory notes contain supplementary illustrations.

Prince of Networks

Green Light for Green Flight

This is a print on demand edition of a hard to find publication. Explores whether sufficient data exists to examine the temporal and spatial relationships that existed in terrorist group planning, and if so, could patterns of preparatory conduct be identified? About one-half of the terrorists resided, planned, and prepared for terrorism relatively close to their eventual target. The terrorist groups existed for 1,205 days from the first planning meeting to the date of the actual/planned terrorist incident. The planning process for specific acts began 2-3 months prior to the terrorist incident. This study examined selected terrorist groups/incidents in the U.S. from 1980-2002. It provides for the potential to identify patterns of conduct that might lead to intervention prior to the commission of the actual terrorist incidents. Illustrations.

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