

# Chevrolet Spark Workshop Manual

## ENGINE ELECTRICAL 15E-15 ENGINE ELECTRICAL

### IGNITION SYSTEM



- |                               |                         |
|-------------------------------|-------------------------|
| 1 Ignition Coil               | 12 Ignition Sensor Unit |
| 2 Spark Plug                  | 13 Spark Plug           |
| 3 Ignition Wire (40)          | 14 Spark Plug           |
| 4 Ignition Wires (41, 42, 43) | 15 Spark Plug           |
| 5 Support Clamp               | 16 Spark Plug           |
| 6 Mounting Clamp              | 17 Spark Plug           |
| 7 Distributor Assembly        | 18 Spark Plug           |
| 8 Coupling                    | 19 Spark Plug           |
| 9 Distributor Oil Seal        | 20 Spark Plug           |
| 10 Distributor Housing        | 21 Distributor Cap      |
| 11 Distributor Shaft          |                         |



### Installation Process

1. Install in the reverse for driver side.
2. Install the engine in the engine mounting lower bracket.

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3. Tighten the engine mounting lower bracket bolts to 25-30 ft-lb (34-41 Nm).
4. Tighten the engine mounting lower bracket, attach the engine mounting lower bracket and nut to 55-65 ft-lb (75-88 Nm).

5. Install the bolts and nut.

### Tighten

- Tighten the generator adjusting bolt to 4-7 ft-lb (5-10 Nm).
- Tighten the generator lower bracket bolt and nut to 15-25 ft-lb (20-34 Nm).
- Inspect the generator drive belt tension.

### BATTERY

#### Removal Procedure

1. Disconnect the negative battery cable and then disconnect the positive battery cable.
  - Remove the battery cable nut to disconnect the negative battery cable (1).
  - Remove the battery terminal cap (2).
  - Remove the battery cable nut to disconnect the positive battery cable (3).
2. Remove the battery.
  - Remove the battery rail nut (1).
  - Remove the battery rail (2).
  - Remove the battery (3).

# Chevy Engine Assembly Guide

**Dale McIntosh, Rick Nelson**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

## **Chevy Engine Assembly Guide:**

**Chevrolet Small Block V-8 Interchange Manual** David Lewis, In production for over 20 years nearly every Chevrolet V 8 passenger sedan is powered by this engine This comprehensive manual is packed with photos and detailed information

*Chevelle Restoration and Authenticity Guide 1970-1972* Dale McIntosh, Rick Nelson, 2019-03-21 The high water mark of the muscle car era is usually credited as 1970 and for good reason Chevrolet was now stuffing high powered 454 engines into Chevelles Adding a larger displacement above the still available 396 402 offered buyers the option to order the most powerful production car of that era The 1970 1972 Chevelles remain the most collectible of the model to this day Author and historian Dale McIntosh pairs with restoration expert Rick Nelson to provide this bible of authenticity on the legendary 1970 1971 and 1972 Chevelle models Everything about restoring your Chevelle back to bone stock is covered meticulously including step by step instructions for chassis and interior restoration Understanding date variances on parts applicable to the build date of your Chevelle is vital to a factory correct restoration and including them in this book provides a depth of coverage on these cars that is unequaled Restoring a 1970 1972 Chevelle back to concours correct takes a certain amount of expertise Thankfully Rick and Dale have done a lot of the heavy lifting on the research side With this authenticity guide you can be confident that you have all the correct components and options accurately and expertly represented for your stock restoration These fine details put the Chevelle Restoration and Authenticity Guide 1970 1972 a cut above the rest

*Camaro Restoration Guide, 1967-1969* Jason Scott, 1997      *Corvette 1968-1982 Restoration Guide, 2nd Edition* Richard Prince, 2011-08-01 A guide to restoring and maintaining third generation Corvettes offers comprehensive and photography enhanced coverage of the full range of the C3 s unique components from engines and drivetrains to chassis and interiors Original      **Cars & Parts** ,1995      **Chevrolet Small Block Parts Interchange Manual - Revised Edition** Ed Staffel, 2019-08-15 If you re building a salvage yard stroker motor looking to make a numbers matching engine saving money on repurposing factory parts or simply looking to see which parts work together this book is a must have addition to your library This updated edition provides detailed interchange information on cranks rods pistons cylinder heads intake manifolds exhaust manifolds ignitions carburetors and more Casting and serial number identification guides are included to help you through the myriad of available parts in salvage yards at swap meets and on the internet Learn what parts can be combined to create various displacements which parts match well with others where factory parts are best and where the aftermarket is the better alternative Solid information on performance modifications is included where applicable The first and second generation of small block Chevy engines have been around for more than 60 years and a byproduct of the design s extremely long production run is that there is a confusing array of configurations that this engine family has seen Chevy expert Ed Staffel delivers this revised edition on everything you need to know about parts interchangeability for the small block Chevy Build your Chevy on a budget today      [How to Rebuild the Big-Block Chevrolet](#) Tony Huntimer, 2009 In our

popular Workbench Series *How to Rebuild the Big Block Chevrolet* covers the basics of any engine rebuild in over 450 color photos of step by step instruction Subjects covered include the history of the big block Chevy preparation and tool requirements engine removal and teardown first inspection parts machine work and clean up final engine assembly and start up This book is essential for not only enthusiasts looking to rebuild their big block Chevy but as a guideline for building performance applications as well *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1954 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals Technical Manual United States. War Department,1942 **Chilton Book Company Repair & Tune-up Guide** ,1987 **How to Supercharge & Turbocharge GM LS-Series Engines - Revised Edition** Barry Kluczyk,2019-07-15 GM LS series engines are some of the most powerful versatile and popular V 8 engines ever produced They deliver exceptional torque and abundant horsepower are in ample supply and have a massive range of aftermarket parts available Some of the LS engines produce about 1 horsepower per cubic inch in stock form that s serious performance One of the most common ways to produce even more horsepower is through forced air induction supercharging or turbocharging Right sized superchargers and turbochargers and relatively easy tuning have grown to make supercharging or turbocharging an LS powered vehicle a comparatively simple yet highly effective method of generating a dramatic increase in power In the revised edition of *How to Supercharge Turbocharge GM LS Series Engines* supercharger and turbocharger design and operation are covered in detail so the reader has a solid understanding of each system and can select the best system for his or her budget engine and application The attributes of Roots type and centrifugal type superchargers as well as turbochargers are extensively discussed to establish a solid base of knowledge Benefits and drawbacks of each system as well as the impact of systems on the vehicle are explained Also covered in detail are the installation challenges necessary tools and the time required to do the job Once the system has been installed the book covers tuning maintenance and how to avoid detonation so the engine stays healthy Cathedral square and D shaped port design heads are explained in terms of performance as well as strength and reliability of the rotating assembly block and other components Finally Kluczyk explains how to adjust the electronic management system to accommodate a supercharger or turbocharger *How to Supercharge and Turbocharge GM LS Series Engines* is the only book on the market specifically dedicated to forced air induction for LS series engines It provides exceptional guidance on the wide range of systems and kits available for arguably the most popular modern V 8 on the market today **Chilton's Motor/age Automotive Service Manual** ,1974 *Chevy Big-Block Engine Parts Interchange* John Baechtel,2014-04-10 The venerable Chevy big block engines have proven themselves for more than half a century as the power plant of choice for incredible performance on the street and strip They were innovators and dominators of the muscle car wars of the 1960s and featured a versatile design architecture that made them perfect for both cars and trucks alike Throughout their impressive production run the Chevy big block engines underwent many generations of updates and

improvements Understanding which parts are compatible and work best for your specific project is fundamental to a successful and satisfying Chevy big block engine build In Chevy Big Block Engine Parts Interchange hundreds of factory part numbers RPOs and detailed color photos covering all generations of the Chevy big block engine are included Every component is detailed from crankshafts and rods to cylinder heads and intakes You ll learn what works what doesn t and how to swap components among different engine displacements and generations This handy and informative reference manual lets you create entirely unique Chevy big block engines with strokes bores and power outputs never seen in factory configurations Also included is real world expert guidance on aftermarket performance parts and even turnkey crate motors It s a comprehensive guide for your period correct restoration or performance build John Baechtel brings his accumulated knowledge and experience of more than 34 years of high performance engine and vehicle testing to this book He details Chevy big block engines and their various components like never before with definitive answers to tough interchange questions and clear instructions for tracking down rare parts You will constantly reference the Chevy Big Block Parts Interchange on excursions to scrap yards and swap meets and certainly while building your own Chevy big block engine

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