

NOTE: In this manual, the word "engine" refers specifically to the Diesel engine; the word "locomotive" refers to a consist of one or more units.



Front Three-Quarter View 167C Engine
Fig. 1-2



Main Generator and Alternator
Fig. 1-3

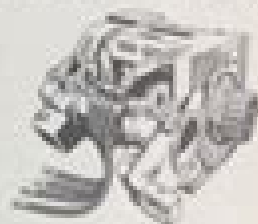
101 Main Generator

The main generator and alternator assembly, Fig. 1-3, is connected to the Diesel engine crankshaft through a several coupling. The constant KW main generator produces direct current at a nominal 600 volts for operation of the traction motors. The armature of the main generator acts as the engine flywheel.

101 Alternator The alternator, Fig. 1-3, built into the engine end of the main generator frame, is a three phase alternating current generator. The alternating current (AC) produced is used to drive the four engine water cooling fans and four traction motor blowers.

101 Traction Motors

Four Model D27 traction motors, Fig. 1-4, are used in each unit, mounted one on each axle. Each motor is geared to the axle, which it drives, by a motor pinion gear meshing with an axle gear. The ratio between the two gears, Fig. 1-5, is expressed as a double number such as 62/15. In this case the axle gear has 62 teeth while the pinion has 15 teeth.



Traction Motor
Fig. 1-4



Gear Ratio Chart
Fig. 1-5

During acceleration, the traction motor electrical hookup is changed to utilize the full power developed by the main generator, within the range of its current and voltage limits. The changes in the traction motor electrical connections is called transition. Four steps of transition are used on the GP9 as follows:

1. Series-Parallel
2. Series-Parallel Short
3. Parallel
4. Parallel-Short

Emd Locomotive Manual

L Cohen



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Table of Contents Emd Locomotive Manual

1. Understanding the eBook Emd Locomotive Manual
 - The Rise of Digital Reading Emd Locomotive Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Emd Locomotive Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Emd Locomotive Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Emd Locomotive Manual
 - Personalized Recommendations
 - Emd Locomotive Manual User Reviews and Ratings
 - Emd Locomotive Manual and Bestseller Lists
5. Accessing Emd Locomotive Manual Free and Paid eBooks
 - Emd Locomotive Manual Public Domain eBooks
 - Emd Locomotive Manual eBook Subscription Services
 - Emd Locomotive Manual Budget-Friendly Options

6. Navigating Emd Locomotive Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Emd Locomotive Manual Compatibility with Devices
 - Emd Locomotive Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Emd Locomotive Manual
 - Highlighting and Note-Taking Emd Locomotive Manual
 - Interactive Elements Emd Locomotive Manual
8. Staying Engaged with Emd Locomotive Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Emd Locomotive Manual
9. Balancing eBooks and Physical Books Emd Locomotive Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Emd Locomotive Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Emd Locomotive Manual
 - Setting Reading Goals Emd Locomotive Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Emd Locomotive Manual
 - Fact-Checking eBook Content of Emd Locomotive Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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