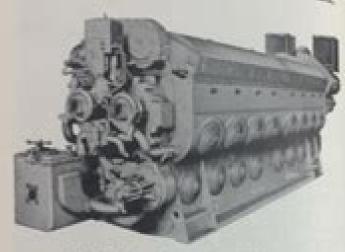
NOTE: In this manual, the word "engine" relate span. heally to the Dienel engine, the word become tive" refers to a constant of one or more both



Front Three-Quarter View 560C Engine Fig. 1-2



Main Generator and Alternator Fig. 1-3

# 101 Main Generator

The main generals: and alternator assembly Fig. 1-3, is connected to the Diesel engine cratishaft through a serned coupling. The constant EV main generator product direct current at a non-Inal 600 volts for sperson of the tractice moura The aresature of the man generator acts as the or gine flywheel.

103 Alternator The alternator, Fig. 1-2, bull into the engine end of the main generator frame, in a mayer phase alternating current generator. The alternating current (AC) produced in used to drive the four engine water cooling fanz and four traction motor blovers.

103 Traction Maters Four Model DOT traction motors, Fig. 1-4, are used in each unit, mounted

one on each axie. Each motor is geared to the aute, which it drives, by a motor pinion year meshing with an axie gear. The estic between the two STATS, Fig. 1-5, 1s supressed as a double numher such as 62/15. In this case the axis gear has 63 torth while the pinion has 15 teeth.

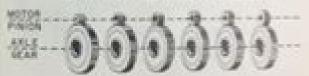
GP9-1-156



Traction Motor Phys. Lett.

Ew.

65-12 62-15 61-16 60-17 59-18 59-19



Gear Ratto Chart. Fig. 1-5

During acceleration, the traction motor electrical horkup in 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 siectrical connections in called transition. Four steps of transition are used on the GP9 as follows:

- Series-Parallel.
- L. Paradiel
- L. Series-Parallel Shutt
- 4. Parallel-Shoot

# **Emd Locomotive Manual**

**S Ben Porath** 

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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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