

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 160C Engine
Fig. 1-2



Main Generator
and Alternator
Fig. 1-3

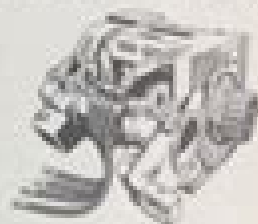
101 Main Generator

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 DDT 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

**United States. Federal Railroad
Administration**



Emd Locomotive Manual:

EMD Locomotives Brian Solomon,2006 **Operating manual, diesel electric locomotives** United States. National Mediation Board,1959 **GE and EMD Locomotives** Brian Solomon,2014-08 Acclaimed rail author Brian Solomon s landmark histories of General Electric s and Electro Motive s machines are showcased in one beautifully designed photo packed volume Manuals Combined: Over 20 U.S. Army Locomotive, Rail Car And Railroad Trackage Manuals , Over 4 100 total pages Just a sample of the contents 256 page Army TRAIN RAILROAD RAILCAR Manual FULL TITLE MAINTENANCE OF RAILWAY CARS Published by the Department of the Army on 28 August 1972 current 174 page U S Technical RAILROAD Design FULL TITLE Technical Instructions Railroad Design and Rehabilitation Published 1 March 2000 207 page U S Navy RAILROAD Handbook FULL TITLE NAVY RAILWAY OPERATING HANDBOOK 207 pages Published by the Department of the Navy June 1999 U S Army RAILROAD LOCOMOTIVE Operations Manual FULL TITLE RAILWAY OPERATING AND SAFETY RULES Published by the Department of the Army on 17 July 1989 139 page Army RAILROAD Rolling Stock Manual Six Lessons 139 pages on CD ROM FULL TITLE RAILWAY ROLLING STOCK Published by the Department of the Army on 1 June 1997 274 page B B 160 LOCOMOTIVE Operator Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 22 May 1991 268 page Army BALDWIN LIMA Locomotive Manual FULL TITLE OPERATOR AND UNIT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 60 TON 500 HP 0 4 4 0 WHEEL MODEL RS 4 TC 1A Published by the Department of the Army on 8 January 1987 419 page Army GE B B 160 Locomotive Manual FULL TITLE INTERMEDIATE DIRECT SUPPORT AND INTERMEDIATE GENERAL SUPPORT MAINTENANCE MANUAL LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 Published by the Department of the Army on 21 July 1987 396 page B B 160 LOCOMOTIVE Parts Manual FULL TITLE UNIT INTERMEDIATE DIRECT SUPPORT AND GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST LOCOMOTIVE DIESEL ELECTRIC 56 1 2 INCH GAGE 80 TON 670 HP 0 4 4 0 WHEEL MODEL B B 160 160 4GE747 A1 NSN 2210 01 158 2980 Published by the Department of the Army on 31 March 1993 90 page 1955 Davenport LOCOMOTIVE Maintenance Manual FULL TITLE LOCOMOTIVE DIESEL ELECTRIC 56 GAGE 44 TON 0 4 4 0 400 HP DAVENPORT BESLER Published by the Department of the Army on 8 November 1955 Equipment Enforcement Manual United States. Federal Railroad Administration,1976 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1978 **Out of Steam** Jeffrey W. Schramm,2010 About the Author Jeff Schramm is an associate professor of history at Missouri University of Science and Technology Book Jacket **I. C. S. Vocational Guidance Manual** ,1963 **Report of the Presidential Railroad Commission** United States. Commission to Inquire into a Controversy between Certain Carriers and Certain of their Employees,1962 Vintage Diesel Power Brian Solomon,2010-11-06 This formative

period of diesel locomotive evolution is examined with the help of more than 250 modern and period photos depicting passenger freight and switching locomotives Author Brian Solomon covers every prominent manufacturer of the period including Electro Motive Alco Baldwin and GE as well as iconic models like Geeps E and F units PAs and FAs sharknoses U boats and more The photographs take in the grand geographic and technological breadth of North American railroading and are accompanied by detailed captions identifying the locomotives pictured and explaining their roles in this crucial era of American railroading

The Model Railroader's Guide to Diesel Locomotives Jeff Wilson, 2009 Learn the history spotting features characteristics and operation of diesel locomotives plus how to determine appropriate eras and details and features

Report of the Presidential Railroad Commission United States. Presidential Railroad Commission, 1962

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Diesel Passsenger Locomotives No. 101, 102, EMD E-643 Operating Manual Pere Marquette Railway, 1946

Poor's Manual of Railroads , 1899

Report of the Presidential Railroad Commission: Index-digest to the record of the commission's hearings United States. Commission to Inquire into a Controversy between Certain Carriers and Certain of their Employees, 1962

Rails Around the World Brian Solomon, 2020 Rails Around the World is a visually glorious history depicting trains and locomotives at work in scenic locations throughout North America Europe and Asia

Locomotive Cyclopedia of American Practice , 1956

Brotherhood of Locomotive Firemen and Enginemen's Magazine , 1958

Model Railroad Craftsman , 1990

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