

1. Introduction

ABOUT THIS MANUAL

This manual provides troubleshooting and repair information regarding the PowerCommand™ 1302 Control (PCG) and generators for the generator sets (gensets) listed on the front cover. Operating and maintenance instructions for the generator set are in the applicable Operator's Manual.

Engine troubleshooting, repair and maintenance information is provided in the applicable engine service manual.

This manual does not have instructions for servicing printed circuit board assemblies. After determining that a printed circuit board assembly is faulty, replace it; do not repair it. Attempts to repair a printed circuit board can lead to costly damage to the equipment.

This manual contains basic (generic) wiring diagrams and schematics that are included to help in troubleshooting. Service personnel must use the actual wiring diagram and schematic shipped with each unit. The wiring diagrams and schematics that are maintained with the unit should be updated when modifications are made to the unit.

Read Safety Precautions and carefully observe all instructions and precautions in this manual.

SYSTEM OVERVIEW

The generator set control system consist of the PCG control and the engine control module (ECM).

The PCG is a microprocessor-based control for Cummins Power Generation generator sets. The operating software provides control of the generator set and its performance characteristics, and displays performance information on a digital display panel. It accepts menu-driven control and setup input from the push button switches on the front panel.

The PCG circuit (Base) board provides:

- Voltage regulation,
- Alternator/genset protection and diagnostics,
- Starter control

The Engine Control Module (ECM) provides:

- Fuel system/combustion control,
- Engine protection and diagnostics,
- Speed governing,
- Speed sensor processing

The ECM fault codes and engine status (oil pressure, coolant temperature, etc.) are displayed on the PCG digital display panel.

TEST EQUIPMENT

To perform the test procedures in this manual, the following test equipment must be available

- True RMS meter for accurate measurement of small AC and DC voltages.
- Grounding wrist strap to prevent circuit board damage due to electrostatic discharge (ESD).
- Battery hydrometer
- Jumper leads
- Tachometer or frequency meter
- Wheatstone bridge or digital ohmmeter
- Variac
- Load test panel
- Megger or insulation resistance meter
- InPower™ service tool (PC based genset service tool)
- PCG1302 interface kit (Used with InPower service tool)
- InSite™ service tool (PC based ECM service tool)

C330 D5 Alternator Manual

CL Gary



C330 D5 Alternator Manual:

Enjoying the Tune of Phrase: An Emotional Symphony within **C330 D5 Alternator Manual**

In a world taken by screens and the ceaseless chatter of quick conversation, the melodic beauty and mental symphony produced by the prepared word often diminish into the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, located within the pages of **C330 D5 Alternator Manual** an enchanting literary value full of fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this charming masterpiece conducts visitors on an emotional trip, well unraveling the hidden melodies and profound affect resonating within each carefully crafted phrase. Within the depths of this touching evaluation, we will examine the book is main harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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