



# Service Manual

Our energy working for you.™



## Rental Package Generator Set with PowerCommand® 3201 Controller

C1500 D6 RG (Spec A)

# Table of Contents

---

1. IMPORTANT SAFETY INSTRUCTIONS .....	1
1.1 Warning, Caution and Note Styles Used In This Manual .....	1
1.2 General Information .....	1
1.3 Generator Set Safety Code .....	2
1.4 Electrical Shock Can Cause Severe Personal Injury Or Death.....	3
1.5 Fuel And Fumes Are Flammable .....	4
1.6 Exhaust Gases Are Deadly.....	4
2. INTRODUCTION .....	7
2.1 About This Manual .....	7
2.2 Test Equipment.....	7
2.3 Schedule of Abbreviations .....	7
2.4 Related Literature .....	9
2.5 After Sales Services.....	9
3. CONTROL SYSTEM - PCC 3201 .....	11
3.1 Control System Description .....	11
3.2 Control Menus (PCC 3201) .....	17
4. CONTROL CALIBRATION AND ADJUSTMENT .....	33
4.1 General .....	33
4.2 Modifying Setup/Adjust Submenus .....	33
4.3 Password Menu .....	33
4.4 Setup Menu.....	34
4.5 Governing Volt/Reg Menu.....	35
4.6 Customer Faults Submenus .....	36
4.7 Calibration Submenus.....	37
4.8 Isolated BUS/Utility Submenus (Paralleling Applications) .....	39
4.9 Power Transfer Control Main Menus .....	44
4.10 Utility Sensors Submenus.....	45
4.11 Genset Sensors Submenus .....	48
4.12 Timers Submenu.....	51
4.13 Test/Exercise Submenu .....	52
4.14 Adjust Submenu.....	53
4.15 Calibration Procedure .....	54

---

4.16 Control Box Wiring .....	57
4.17 Optional Run Relays (K11, K12, K13) .....	59
4.18 Optional Alarm Relay .....	60
4.19 Magnetic Speed Pickup Unit (MPU) Installation .....	60
5. SERVICING THE GENERATOR.....	63
5.1 Testing the Generator .....	63
5.2 Generator/PCC Control Isolation Procedure .....	64
5.3 Insulation Resistance (Megger) & Polarization Index Testing .....	65
5.4 Drying the Windings.....	68
5.5 Exciter Stator .....	68
5.6 Exciter Rectifier Bridge (Rotating Rectifier Assembly).....	70
5.7 Exciter Rotor .....	71
5.8 Main Rotor .....	72
5.9 Main Stator.....	73
5.10 P7 Bearing Inspection/Removal.....	76
5.11 P7 Generator Disassembly .....	77
5.12 Aligning Generator with Engine .....	86
6. TROUBLESHOOTING .....	89
6.1 Troubleshooting Overview .....	89
6.2 Safety Considerations.....	89
6.3 Status Indicators .....	90
6.4 Line Circuit Breaker (Optional) .....	90
6.5 Control and Diagnostics via Network or Personal Laptop Computer .....	90
6.6 Reading Fault Codes .....	90
6.7 Fault Codes.....	92
6.8 Warning and Shutdown Codes (Category D) for PCC 3201 .....	99
6.9 Troubleshooting via Symptom - Parallel .....	102
6.10 Troubleshooting via Symptom - Nonparallel.....	103
6.11 Troubleshooting for Landing Gear .....	103
7. MAINTENANCE .....	107
7.1 Maintenance - General Information .....	107
7.2 Maintenance Schedule .....	107
7.3 Generator Set Inspection .....	109
7.4 Fuel System.....	110
7.5 Generator Set Maintenance (Battery Disconnected).....	110

---

---

7.6 Lubrication System .....	111
7.7 Cooling System.....	112
7.8 Radiator Maintenance.....	118
7.9 Air Cleaner.....	123
7.10 Batteries.....	124
7.11 Generator Bearing Re-Lubrication.....	125
7.12 Landing Gear Maintenance.....	126
8. FUEL TANK SYSTEM.....	129
8.1 Fuel Tank System.....	129
8.2 PCC Customer Inputs.....	129
8.3 Fuel Display Panel Indicators .....	130
8.4 Tank Overfill Panel.....	130
8.5 Fuel Gauge .....	131
8.6 Fuel Priming Instructions .....	132
9. GLOBAL ADDRESSES.....	133
APPENDIX A. WIRING DIAGRAMS .....	135

**BUY NOW**

**Then Instant Download  
the Complete Manual  
Thank you very much!**