

Heavy Maintenance

Instructor's Guide (6-Hour Course)

Low Voltage Power Supply/Battery Charger

(excerpt)

SCR Phase Controlled, Separate LVPS/BC,
Dust Cover Enclosure with Remote Display Panel

Bombardier P.O. 2141642
Southern California Regional Rail Authority (SCRRA)
Bi-Level Cars

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6-Hour Training Course Morning Session, 3 Hours

1. Preview

Purpose of Course

To provide basic instruction for:

- **Functionality**
- **Operation**
- **Technical Troubleshooting**
- **Component/board replacement**
- **Repair and maintenance of the LVPS/BC**

Learning Objectives

- Explain what the LVPS/BC is and what it does
- Identify the unit parts and their functions
- Locate and access the main unit and components
- Explain what safety precautions need to be taken
- Identify an equipment problem
- Diagnose the problem correctly
- Isolate the problem down to the LRU
- Properly remove and replace LRUs
- Properly install screws, nuts, wire ties, and connectors
- Verify that a problem has been fixed



Materials and Handouts

- *Student Workbook*
- *LVPS/BC Running Maintenance Manual*
- *LVPS/BC Illustrated Parts Catalog*
- *LVPS/BC Heavy Repair Manual*
- **Part II: Achievement Test**



Pass/Fail Criteria

- **Pass/Fail grade at end of module**
- **Based on performance on 100-point, multiple-choice test**
- **Key points are reviewed prior to the exam**



2. Functional Description

What is the LVPS/BC?

- **What is its key purpose?**
- **How is it powered?**
- **What happens if AC power is lost or the LVPS fails?**
- **Why does it contain a Battery Charger?**
- **How do I know its status?**



Location of Unit

- **Located within the bi-level car**
- **Accessed from the A-end of the car**
- **Located in a compartment at the upper level**

