

# 1 Introduction

This document summarizes purpose, new features of the Software Version: 97 for the Project Bordline M130-M260 Auxiliary Converter Redesign-1 equipped with PEC 80 Controller.

## 2 Release Notification

### 2.1 Improvement in SW V97

This new software release is for the improvement of the Battery Charger performance for the Project Bordline M130-M260 Auxiliary Converter Redesign. New feature contains:

- State machine bug fixed for wrong state transitions.
- Spurious BCC Overcurrent treated with auto reset feature for first OC and trip for second OC.

## 3 Trial Version Release Approval

- By the verification of modification, this software will be valid for installation or downloading on the target system.

### 3.1 Verification of Modification


- All the modifications of the new SW will be verified by testing the new functionality on the converter and on the vehicle and made valid to install in other locomotive.

## 4 Required tools / systems and versions for installing this SW

Tool Name	Version	Manufacturer	Function
PEC Tool	2.4.0.0	ABB	Download tool

## 5 Field Action

With the test result of version 97, it is recommended to upload the software into Locomotive and test the application for improved converter reliability and to address the different issues reported by zonal railways.

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Reviewed	Tarun Jain	25.12.2023	Title	Change note for Software Ver-97			
Approved	Ramu S	26.12.2023	Converter	Bordline® M130/M260 AUX Converter Redesign			
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