

BOMBARDIER

***EBI* Track Audio Frequency Track Circuit**

PC Application Users Manual

**Customer Version
SW580015046**

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FOREWORD

This manual describes the operation of the PC application used to interface with the Bombardier *EBI* Track range of Audio Frequency track circuit equipment. The complete design is protected by patents and the copyright of this document belongs to Bombardier Inc. or its subsidiaries.

Bombardier Transportation pursues continuous product development and hence equipment supplied may differ in detail from the description in this manual.

SAFETY CONSIDERATIONS

The operation of the user version of the PC application cannot affect the operation of the *EBI* Track track circuit system.

The PC application is only intended to be used as described in this manual.

ABBREVIATIONS

The abbreviations listed below are commonly used in this handbook.

CSV	Comma Separated Variables
ILSB	Lower side band input current
IUSB	Upper side band input current
ITHR	Autoset current threshold
RLST	Output relay drive status

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1. INTRODUCTION

1.1 BACKGROUND

The *EBI* Track (ET) range of track circuit products currently comprises of three families: ET200, ET300 & ET400. Each has a receiver that has a serial port to access unit parameters. In addition, ET400 has a transmitter that also has a suitable serial port connection.

1.2 SYSTEM REQUIREMENTS

The PC application is designed to run under Microsoft Windows XP, Vista & 7 on a suitable PC platform.

The PC will require a single serial communications port to make connection to the *EBI* Track unit. The serial cable requires connection of pins 2, 3 & 5 in a straight through configuration with a 9 way D-type male plug at the unit end and a 9 way D-type socket at the PC end.

Suitable cable and USB serial converter available for use with *EBI* track (ET) systems with the following parts numbers:

520008907 – *EBI* Track Receiver / Transmitter Cable

520031483 – USB to Serial Converter

1.3 SOFTWARE COMPONENTS

This manual applies to: SW580015046 V2.0 (Build 389)

The PC app consists of the executable file (*exe*). An (*ini*) file is automatically generated when the program (*exe*) is activated. The two files remain in the same folder. The (*exe*) program can be run from a local drive or over a network and does not require administrator privileges. No settings are written to the registry. The names of the two files must match (except the extension) in order that the program operates correctly.

1.4 RUNNING THE PROGRAM

Either creates a short cut or using Windows Explorer, locate the (*exe*) file and double click on it. The program will run showing the main window with the control buttons down the right hand side. The software part number and version are identified in the title bar of the program. PC date and time are displayed in a separate area as shown in Figure 1.

From the left side of Figure 1, channel ID numbers are displayed representing data with a following description; un-scaled raw value and a true scaled value.

Due to the way that the PC app interprets time stamped data, it is important that the clock on the PC being connected to the unit is set accurately to the local time.