INSTRUCTION SHEET
The Atlas Master™ DCC Turnout Control Unit - Item #344

IMPORTANT PRECAUTIONS, PLEASE READ BEFORE USING YOUR NEW TCU
The Atlas Master™ Turnout Control Unit (TCU) Item #344 is designed as an accessory to the Atlas Master™ DCC System for use as a train controller, to your DCC system, and to the switch machines used to operate your turnout.

Do not interfere with the wiring for voltage and power supplied in this instruction sheet. Damage to the TCU may result.

Do not expose your TCU to extremes of light or direct sunlight.

FUNCTION OF THE TCU
The Atlas Master™ Turnout Control Unit is designed for use with the Atlas Master™ DCC System or with any other DCC system. This accessory is compatible with the turnout controller of your DCC system and any switch machines used to operate your turnout.

For effective performance, the TCU must be powered by a 4.5V alkaline or 6V NiCd battery. The TCU will receive power from the 4.5V alkaline or 6V NiCd battery.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Range of addresses</th>
<th>1-128</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum AC output voltage</td>
<td>16V</td>
</tr>
<tr>
<td>Maximum DC output voltage</td>
<td>24V</td>
</tr>
<tr>
<td>Output voltage</td>
<td>Approximately 24V DC (variable based on turnout number)</td>
</tr>
<tr>
<td>Public address inputs</td>
<td>Up to 32 total (1024)</td>
</tr>
<tr>
<td>Maximum power available from a TCU output</td>
<td>10W</td>
</tr>
<tr>
<td>More than 1 time red voltage duration</td>
<td>1 amp</td>
</tr>
<tr>
<td>Maximum power consumption of draw (in a TCU terminal)</td>
<td>10W</td>
</tr>
</tbody>
</table>

POWER REQUIREMENTS

The TCU has no power requirements that are specific to the DCC System. The output of the TCU can be connected directly to the DCC System. The output of the TCU can be connected directly to the DCC System.

OPERATING TEMPERATURE

The TCU is designed to be used in environments that are suitably cool. The output of the TCU can be connected directly to the DCC System. The output of the TCU can be connected directly to the DCC System.

TERMINAL DESIGNATIONS

<table>
<thead>
<tr>
<th>Terminal designations</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire colors on Atlas switch machine</td>
<td>red</td>
<td>green</td>
<td>black</td>
</tr>
</tbody>
</table>

CONNECTION TO THE DCC SYSTEM

Connect the TCU to the DCC system as shown in Figure 2. Connect the terminals on the TCU that are labeled 1-16 to the output terminals of your DCC System. The output of the TCU can be connected directly to the DCC System. The output of the TCU can be connected directly to the DCC System.

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CONNECTIONS FOR TWO CORE SSWITCH MACHINES (OR ATLAS SNAP RELAYS)

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Furthermore, it is also possible to set the pulse duration of the TCU output. If you want to set only the pulse duration of its output, set the pulse duration in the TCU. However, if you want to set both the pulse duration and pulse polarity of the TCU output, you can set them simultaneously. If you want to set only the pulse polarity of the TCU output, set the pulse polarity in the TCU. However, if you want to set both the pulse duration and pulse polarity of the TCU output, you can set them simultaneously.

LIMITED LIABILITY

This Problem Statement is not contractually binding; it is provided as a general guide for troubleshooting purposes. Any failures or defects described herein are intended to provide a general understanding of the potential issues that may arise. The liability of the manufacturer and its representatives is limited to the repair or replacement of the defective parts as described herein. The manufacturer shall not be liable for any indirect, incidental, punitive, or consequential damages arising out of the use of this product. This warranty gives you specific legal rights, and you may also have other rights depending on the laws of your jurisdiction. If you have any questions or concerns regarding the warranty or the product, please contact your local authorized representative or distributor.

RELATING TCC TO FACTORY-DEFINITE SETTINGS

To relate the TCC to factory-definite settings, do the following:

1. Connect the low-voltage supply to the TCU by plugging in the cord to the transformer that is used to supply the TCU.
2. Set the pulse duration in the TCU to its minimum value. If you have any questions or concerns regarding the warranty or the product, please contact your local authorized representative or distributor.