

# Traction Engine Control Unit — Lite

Dual Module



Dual Module TECU-Lite System

“The TMV system is like converting your locomotive into an all wheel drive SUV.”

- Scott Reck  
Glenn O. Hawbaker Inc.

## System Accessories:



Traction current sensors



Axle generator

The TECU-Lite system is used to upgrade a Dash-II cabinet, the system will replace **80%** of modules and improve wheel slip control.

The TECU-Lite system has outputs for Main Generator (AC/DC) Field control:

- **The existing GM/EMD SE module SCR are used for AC main generators**
- **Battery Field Chopper for DC main generators**

System Benefits over GM/EMD Dash-II Modules:

- **Improved wheel slip control**
- **Enhanced main generator and traction motor protection**
- **Less modules and reduced wiring**
- **Protective metal plated on circuit boards**
- **Smaller size; TECU-Lite measures 6.5W x 12H x 11D (inches)**
- **Built-in diagnostics and fault logging**

Corporate Headquarters:  
**TMV Control Systems Inc.**  
Cambridge, Ontario  
(519) 624-8219  
dvanderklippe@tmvcontrol.com

U.S. Sales Office:  
**Brookville Equipment Corporation**  
175 Evans Street  
Brookville, PA 15825  
(814) 849-2000  
m\_white@brookvilleequipment.com  
www.brookvilleequipment.com



The TECU - Lite system was installed in the rebuilding the Glenn O. Hawbaker Inc. locomotive.

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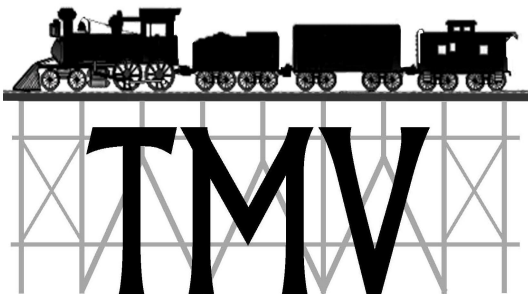
Dual Module

**Boost track adhesion and overall locomotive performance.**



## **TECU Major Functions:**

- Main Generator Power Control
- Enhanced Wheel Slip Control
- Transition Control
- Automatic Ground Relay Reset
- Sanding Control
- Engine HP Limit
- Main Generator Over Current and Over Voltage Protection
- Open Traction Motor, Pinion Slip, Locked Axle Protection
- Test Menu for Testing Locomotive Contactor, Relays, Etc.



Battery Field Chopper

**“The TMV System has eliminated all wheel slip problems and allows us to reach the loading dock on the first try every time at a much safer speed.”**

- Scott Reck

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