



33 Boulder Boulevard  
Stony Plain, Alberta, Canada T7Z 1V6

Phone: (780) 963-8930

Fax: (780) 963-8230

Website: [www.c-a-i.net](http://www.c-a-i.net)

## **TMT7839 Universal Translator (Translating J1587/J1708 to J1939)**

### **INSTALLATION INSTRUCTION**

1. Remove cover from Translator. Connect +12/24Volt and Ground to appropriate wires on the Translator. If power and ground are connected properly the red LED should be on.
2. Connect the blue (Bus +) and white (Bus -) wires from the Translator to the engine bus. When properly connected, the green LED should be on. If green LED is not on, then reverse the wires.
3. Connect the purple (Bus +) and grey (Bus -) J1939 wires to your device.
4. To ensure proper operation, the J1939 bus connected to the TMT7839 Translator must have proper terminating resistors in place. The TMT7839 Translator does not include built-in terminating resistors due to the fact that it can be connected at any point of the bus, not necessarily either of the end points.
  - a. The terminating resistors are made up of two 120 Ohm resistors connected at both physical ends of the bus, connected between J1939+ and J1939- (or CAN+ or CAN-).
  - b. A properly terminated J1939 bus should see a total of approximately 60 Ohms between the J1939+ and J1939-.
  - c. If the TMT7839 Translator is being added to an existing bus, these resistors may already be in place.
  - d. If the bus is relatively short (less than 10 feet) it is possible to use only a single 60 Ohm resistor at one end of the bus, however, this does not comply with J1939 (CAN 2.0B) standards.
5. Replace cover on Translator.

### **TRANSLATOR WIRING**

RED – Power (+)	BLACK – Ground
GREY – J1939 (-)	PURPLE – J1939 (+)
BLUE – J1708 (+)	WHITE – J1708 (-)