

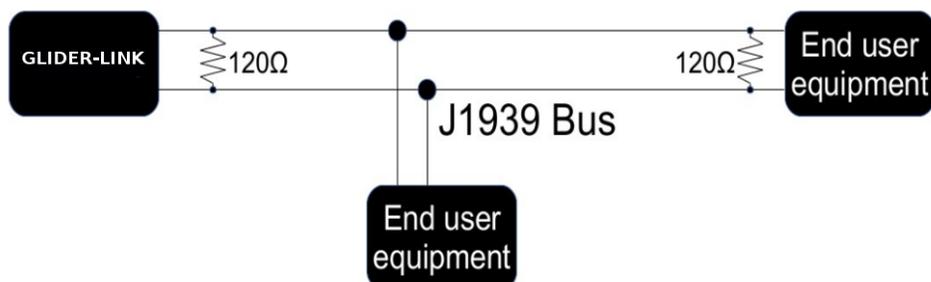
## GLIDER-LINK (Translating J1587/J1708 to J1939)

### INSTALLATION INSTRUCTIONS:

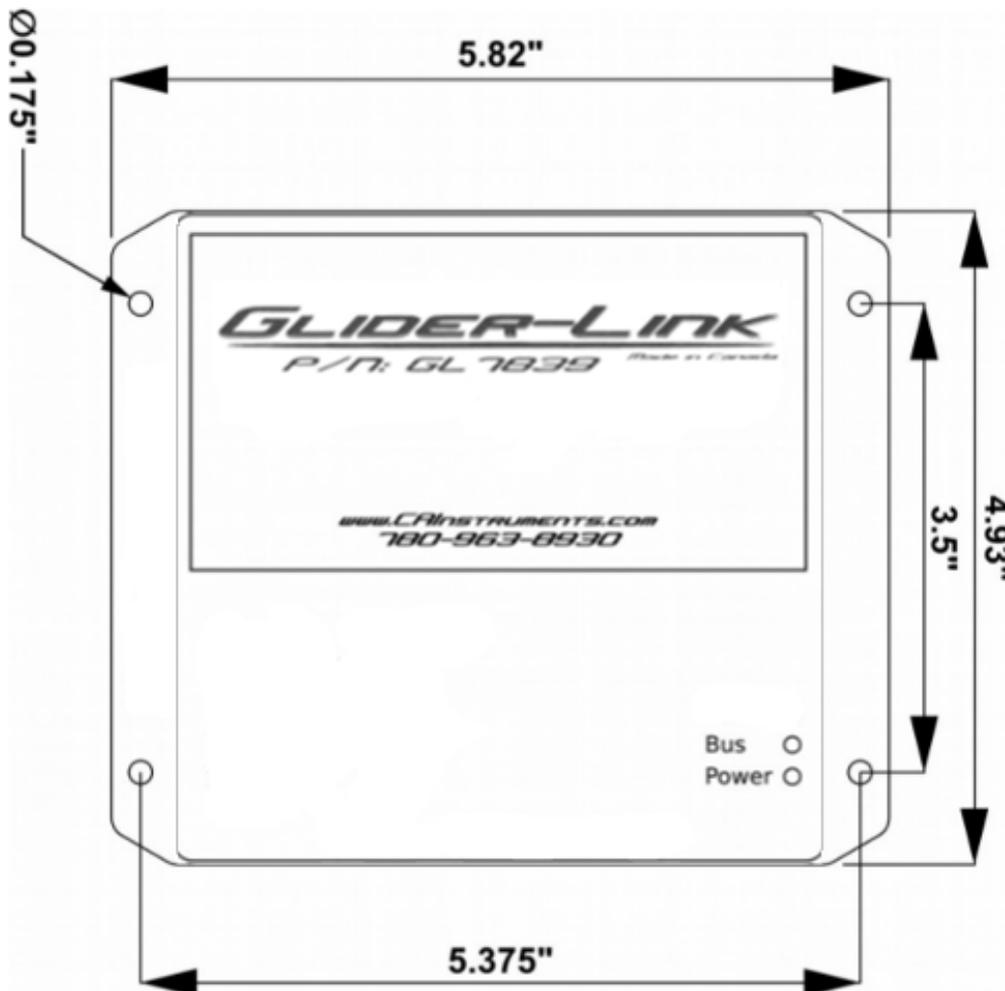


**A PLUG B PLUG**

1. Connect +12/24 volt power to any power source and ground to any ground
2. Connect the J1708/J1587+ wire to the engines ECM and the J1708/J1587- wire as well.
3. Connect the J1939+ wire to cab controller or diagnostic plug and the J1939- wire as well. If you have one, connect the cable shielding to ground.
4. The Glider-Link requires that the J1939 bus has proper terminating resistors installed.
  - a) Two 120 ohm resistors must be connected between J1939+ and J1939-, each one located at opposite physical ends of the bus. A properly terminated J1939 bus should see a total of 60 ohms between J1939+ and J1939-.
  - b) If the Glider-Link is being added to an existing J1939 bus, these resistors may already be in place.



## MOUNTING:



**Note: The Glider-Link is not waterproofed. If the unit is mounted vertically, ensure the terminal strip is facing downward to reduce the risk of water leaking into the device.**

## CHECKING THE J1708/J1587 BUS VOLTAGE

Make sure the Glider-Link is powered and the vehicle ignition is on.  
With a voltage meter set to DC, measure the voltages on the J1587/J1708+ and J1587/J1708- wires separately. Each wire must be measured relative to ground.

WIRE	EXPECTED VOLTAGE
J1587/J1708 +	3.5V – 4.5V
J1587/J1708 -	0.5V – 1.5V

## CHECKING THE J1939 BUS VOLTAGE

Make sure the TMT7839 TB is powered and the vehicle ignition is on.  
With a voltage meter set to DC, measure the voltages on the J1939 + and J1939 - wires separately. Each wire must be measured relative to ground.

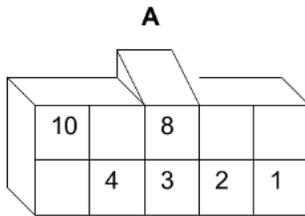
WIRE	EXPECTED VOLTAGE
J1939 +	2.5V – 3.5V
J1939 -	1.3V – 2.3V

## CHECKING THE J1939 BUS RESISTANCE

Make sure the TMT7839 TB is powered OFF and the vehicle ignition is OFF.  
With a multimeter set to ohms, measure the resistance from J1939 + to J1939 -. A correctly terminated J1939 bus should read 60 ohms.

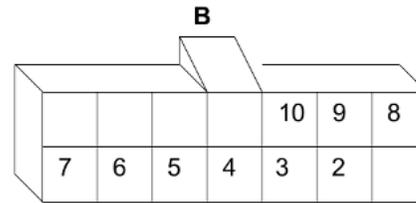
RESISTANCE	CAUSE
0 ohms	Short circuit between J1939+ and J1939-
< 60 ohms	Incorrect terminating resistors installed or too many terminating resistors installed
60 ohms	Correctly terminated J1939 bus
120 ohms	Only one terminating resistor installed
> 120 ohms	Incorrect or missing terminating resistors

## Glider-Link Connector Pinout:



**A PLUG**

<b>1</b>	J1708 -	(White)
<b>2</b>	J1708 +	(Blue)
<b>3</b>	J1939 +	(Purple)
<b>4</b>	12/24V+ (5Amp fuse required)	(Red)
<b>8</b>	J1939 -	(Grey)
<b>10</b>	Chass GND	(Black)



**B PLUG:**

<b>2</b>	Parking Break Switch	(Blk/White)
<b>3</b>	Clutch Switch	(Grn/Yellow)
<b>4</b>	Brake Switch	(White/Blk)
<b>5</b>	Engine Retarder Selection (med/hi)	(Tan)
<b>6</b>	Engine Retarder Selection (low/hi)	(Pink)
<b>7</b>	Cruise Resume	(Brown)
<b>8</b>	Cruise Set	(Orange)
<b>9</b>	Cruise Control Enable Switch	(Green)
<b>10</b>	Requested Percent Fan Speed	(Yellow)