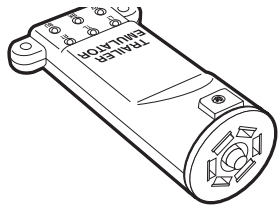


Trailer Emulator



- LT – Left turn signal, Red Light
- TL – Tail / running lights, Red Light
- RT – Right turn signal, Red Light
- 12V – 12 volt battery supply line, Red Light
- BK – Electric trailer brakes, Red Light
- BU – Backup lights, Red Light

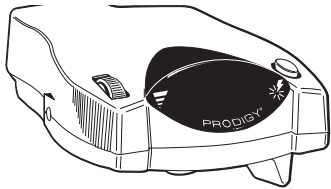
User's Guide

The Trailer Emulator requires the ground and 12 volt battery line to be properly connected in order to check the electric brake circuit.

- **12 volt** light on the emulator will be lit as soon as the emulator is connected to the tow vehicle's plug. If this does not happen see Troubleshooting Chart.
- The **RT, LT, TL** and **BU** lights will light on the emulator as those functions are activated on the tow vehicle. If this does not happen see *Troubleshooting Chart*.
- The **BK** light on the emulator should be off until the brake control is activated. **NOTE:** The trailer emulator *is not an exact trailer load* so the light displays on various brake controls will respond differently.

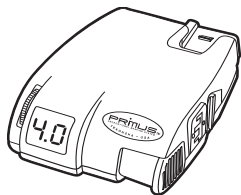
The following can be expected with Tekonsha Brake Controls:

90185 – Prodigy®

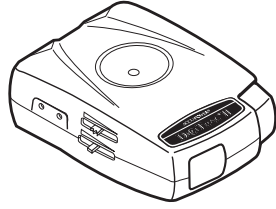


90155 – Primus™

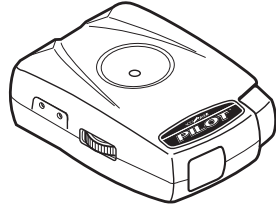
90155-CLR – Primus™



80750 – DigiTrac® II



80550 – Pilot®

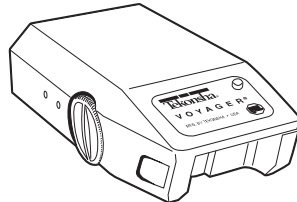


Brake Control's display should show:

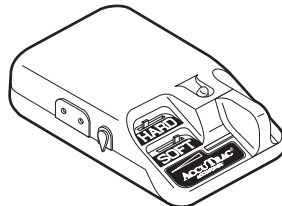
- **.c** - With trailer emulator connected and no manual slide activation ("c" indicates connection to the trailer).
- Varying voltage displayed from 0-13 as manual is activated with the power knob full on.

9030 – Voyager®

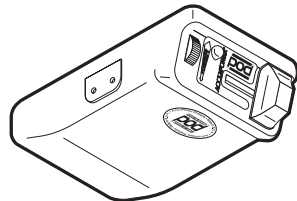
9035 – Voyager XP®



80510 – AccuTrac®



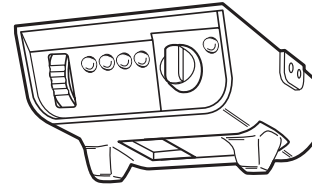
80500 – POD®



Brake Control's display should show:

- **GREEN** - with trailer emulator connected with no manual slide activation.
- **GREEN to varying colors of RED** - trailer emulator connected and manual slide activated.

9055 – Sentinel®



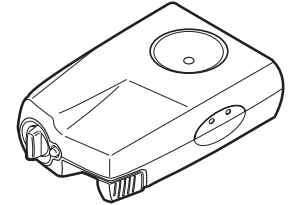
Brake Control's display should show:

- **Level LED is GREEN** - with trailer emulator connected with no manual slide activation.

- **Level light changes color from GREEN to RED and the other FOUR RED lights should light in progression** - trailer emulator connected and manual slide activated.

9040 – Envoy®

9045 – Envoy® SX



Brake Control's display should show:

- **GREEN** - with trailer emulator connected with no manual slide activation.
- **GREEN to varying colors of RED** - trailer emulator connected and manual slide activated.

Troubleshooting Chart

Condition	Probable Cause
<i>Trailer Emulator connected to tow vehicle:</i>	
- 12V LED is NOT lit on Trailer Emulator.	1) Bad ground or incorrect wiring in tow vehicle connector. 2) No 12 volt battery power supplied to connector.
- LT LED is NOT lit on Trailer Emulator NOTE: Applies for LT, RT, TL and BU LEDs.	1) Bad ground or incorrect wiring in tow vehicle connector. 2) Loose or poor connection in circuit under test.
- BK is NOT lit on Trailer Emulator when <u>manual slide / touch pad</u> is activated, but 12V LED is lit.	1) Bad ground or incorrect wiring in tow vehicle connector. 2) Poor ground on Brake Control. Brake Control goes into a limit mode. 3) Gain adjustment on Brake Control is set to minimum, adjust gain to maximum and retest using manual.
- BK is NOT lit on Trailer Emulator when <u>Brake Pedal</u> is depressed, but 12V LED is lit.	1) If using brake pedal, Tekonsha's inertia activated controls require vehicle movement to activate sensor. Apply the manual switch and see if BK LED lights. (SEE NOTE)

Note:

The following two methods are available to test the **Automatic response** of the Tekonsha brake control with the Trailer Emulator.

1. Vehicle in Motion Method

- Connect Trailer Emulator to vehicle.
- Properly adjust the Level of the brake control.
- Drive vehicle and apply brake pedal, the brake control's light should indicate a braking event.

2. Aggressive Level Method

- Connect Trailer Emulator to vehicle.
- Properly adjust the Level of the brake control.
- Adjust Level setting toward Aggressive.
- The brake control's light should indicate a braking event.
- When finished with test remember to adjust the brake control's level back to desired tow setting.