



Custom Dynamics® TruFLEX 2® Installation Instructions

We thank you for purchasing the Custom Dynamics® TruFLEX 2® LEDs. Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

Part Numbers:

Single Color Amber or Red LED TruFLEX 2® LEDs in clear, amber, red or smoked tubing

T2F40AA	T2F65AA
T2F40AS	T2F65AS
T2F40RR	T2F65RR
T2F40RS	T2F65RS

The TruFLEX 2® product was developed to be the brightest product within the TruFLEX 2® family, designed for applications requiring higher brightness levels. Its primary application is to be used as auxiliary lighting on any 12VDC system including motorcycles, automobiles, trucks, boats, ATVs, and snow mobiles for the following applications:

- Running lights
- Turn signals
- Brake lights

DOT specifies signal color by location:
Amber = Front or Rear turn
Amber = Front running
Red = Rear run/brake/turn

TruFLEX 2® Dual Converter Index

Convert TruFLEX 2® from Single Wire to Dual Wire. Used for Tail Light and Turn Signal Applications. Example: will convert single hot wire to: Running (30% Intensity) and Brake (100% Intensity). Select the Converter Based on the Number of TruFLEX 2® LEDs you are Converting from Single Wire to Two Wire.

Single Color LED Application

T2CD1= T2F40

T2CD2= T2F65



ATTENTION



Please read all Information below before Installation

Important: This product is designed and intended for use as auxiliary lighting only. It is NOT intended to replace any original equipment lighting installed on the vehicle and should not be used for that purpose. This product must be wired so that it does not interfere with any original equipment lighting.

Note: Please read all instructions before beginning installation. Some wiring knowledge and soldering experience will be helpful. Consult your vehicle detailed service manual for wiring information and color codes. Use a meter or test light to verify wiring before cutting or tapping any vehicle wiring. If the steps contained within are beyond your skillset, do not attempt installation, contact a qualified mechanic or dealership to assist you.

Safety First: Always wear appropriate safety gear including safety glasses when performing any electrical work. It is highly recommended that safety glasses be worn throughout this installation process. Turn fuel supply valve to the off position before starting installation. Be sure vehicle is on level surface, secure and cool.

Warning: Disconnect negative battery cable from battery; refer to owner's manual. Failure to do so may result in electrical shock, injury, or fire. Secure negative battery cable away from positive side of battery and all other positive voltage sources on vehicle.

Note: TruFLEX 2® products are very flexible but will NOT accommodate hard 90 degree angles. Doing so can cause stress to the board and the LEDs. The product also does not flex from side-to-side, it must be installed in a straight line. Damage or failure from these types of incorrect installation is not covered under warranty.

Recommendation: To increase the adhesion power of the 3M mounting tape, it is recommended to use adhesive primer, sold separately.

Note: Some adhesive primer is classified as a sensitive chemical and cannot ship any carrier by Air or international. Custom Dynamics may not be able to ship adhesive primer with orders in these cases. Contact us for details.

Important: It is recommended that the installation of this product should be performed in a controlled environment of 65 F or above. Allow 24 hours for the tape to properly adhere before riding or washing the vehicle.

Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

Installation Instructions - Page 2

General Product Mounting Instructions

1. Choose the desired location to mount the LED strip(s).
2. Clean the surface thoroughly before mounting with appropriate cleaning method and rubbing alcohol.
3. **Note:** It is recommended to apply adhesive primer to the mounting surface to increase tape adhesion, sold separately. If adhesive primer was purchased, open and apply generously to the mounting surface. Allow 3-4 minutes to dry.
4. Inspect the vehicle and plan the route the wiring will make to the connection point. Keep in mind each unit has 36" of wiring. Consult vehicle detailed service manual for vehicle wiring information and wire color codes. Use a meter or test light to verify vehicle wire functions before connecting.
5. Drill holes if necessary in the mounting surface to allow for the wiring to pass. Feed the wiring through the holes.
6. Remove the Red backing from the Tape and carefully mount in the desired location, paying attention to the desired level and center. Take care in this step as once the tape adheres to the surface, it will be very hard to remove and re-apply and is not recommended.
7. Dress the wiring with shrink tubing (not included) as needed to protect wiring from sharp metal or openings, then run the wiring along the chosen route from step 4. Make sure wiring cannot be accidentally cut, pinched, or frayed by moving or sharp parts. Keep wiring from coming in direct contact with high heat components.
8. Once you have reached the chosen connection point, trim any excess wiring from LED wires the and prepare the wiring ends by stripping back the insulation.

Wiring the Connections

1. All single color TruFLEX 2® are a 2 wire power system. Black is always Ground, which should be connected to a suitable ground wire in the vehicle's wiring harness or directly to the Negative [-] terminal of the battery. The Colored wire is always the Power [+] which should be connected to the vehicle turn, brake, or running light positive power wire depending on desired application.
2. Depending on the type of TruFLEX 2® you have purchased and the Converter options (see page 1 for product listing), see below diagram for wiring instructions. Connections points can be soldered or some type of weatherproof splice connector.

