

# GENERAL INSTALLATION INSTRUCTIONS

## E-Stop Electronic Emergency Brake System

### WARNING: Disconnect battery BEFORE beginning your E-Stop installation

Please review our warranty information, as modifying wiring or opening the unit or control box will void the warranty.

*Installation will vary from vehicle to vehicle; these instructions reflect a typical installation. Moderate mechanical prowess is required for this job. Average install time is 3 to 5 hours. Additional cables and/or brackets may be required to connect the E-Stop to the vehicle.*

1. **Fully extend the E-Stop actuator cable before mounting it to your vehicle** to ensure a proper fit. To manually extend the cable, connect a 12-volt power source to the actuator by connecting the **positive source wire to the brown actuator wire** and the **negative source wire to the blue actuator wire**. When powered up, the cable will extend. When it stops, immediately disconnect the power source. Your cable may already be fully extended, in which case it will not move when power is connected. This is normal. **DO NOT leave the actuator connected directly to a power source.** Doing so may shorten the actuator's lifespan or burn out the motor and is not covered by our warranty.
2. Find a flat area along the frame rail to mount the unit (look for an area that will not cause interference with the cable). Hold the unit along the frame and mark an area to drill four mounting holes. If the frame is not boxed, you may mount the unit with standard nuts and bolts (not included). If you have a boxed frame you may have to drill and tap the holes for bolts only. Be sure to always use a thread locking agent on the bolts when mounting.
3. Once you have the unit mounted, measure the distance from the unit to the brake calipers to determine the length of any intermediate cables you may need (many vehicles already have these cables; if yours does not, there are many universal cable kits available). A good cable manufacturer should be able to help with routing and connectors to attach the cables to your specific brake model. Connect the cables to the E-Stop and ensure that there is **minimal slack** in the line.
4. **Disconnect the vehicle battery before connecting the control box.** Failure to do so can cause damage to the control box. On the opposite end of the control box from the button wires you'll find a set of red and black wires. Connect the **red wire to the brown actuator wire**, and the **black wire to the blue actuator wire**. If you need to extend the wires, use only **16 gauge or thicker wire** and **do not add more than 15 feet**. See reverse side for wiring diagram.
5. Connect the power wires on the control box to a 12-volt source that is capable of providing at least 10 amps (the power wires are on the same side of the box as the button wires). **Red is positive** and **Black is negative**. You may add a 10-amp fuse to the circuit. **DO NOT couple the E-Stop wires to other electrical wires.** Interference from other systems can cause issues with your E-Stop. If you need to extend the power wires, use only **16 gauge or thicker wire**.
6. Connect the **blue wire** on the control box to the ignition switch. This will enable the ignition safety feature that makes the unit *unable to be engaged while the ignition is on*. Failure to do so could result in the E-Stop brake being activated while the vehicle is in motion. If you choose not to connect this wire, you do so **at your own risk**.
7. An **optional green wire** from the control box is available which can be connected to a positive voltage source (12 volts or less) and acts as a switched ground. Engaging the E-Stop brake allows a low current (less than 25mA) to flow through this wire. This can be used to signal to other electronic systems that the brake is engaged, or to directly light an LED.

#### Button Function:

Press the button once to engage the brake. The button will click into place and blink until the brake is fully engaged and then stay lit for 10 seconds. **Note: the system will beep while activating and deactivating.** Press the button again to release the brake. The button will release and blink until the brake is fully disengaged. Once the brake is fully disengaged, the button light will turn off.

# COMPONENT OVERVIEW & WIRING DIAGRAM

