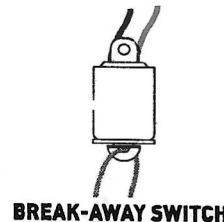
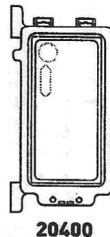
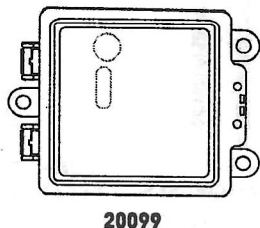




# BREAK-AWAY SYSTEM INSTRUCTIONS

for 1 - 2 axle trailers

Make sure you have all parts before you start your installation.



The following instructions must be precisely followed to ensure proper operations. Please read the following instructions thoroughly before installing this product.

The Engager™ Break-Away System is designed to bring trailers safely to a stop by activating electric brakes, should a trailer be disconnected while driving. This type of safety system is required in most states on trailers rated over 3,000 GVW. **Note: Contact your department of transportation for complete towing law information.** Your trailer must have operational electric brakes before installation. Once you determine your trailer brakes work, find a secure location on your trailer to mount the Break-Away Box.

## UNIT MUST BE FULLY CHARGED BEFORE USE

- For models with push to test and battery status indicators: If the red light illuminates when the test button is pushed, the battery charge is low. **If the charge is low, connect the trailer plug to the tow vehicle so the Break-Away Kit can charge (This can only be done after kit is installed on trailer). The amber light will illuminate indicating the battery is charging. The battery should re-charge in about twenty minutes.**
- For models without push to test and battery status indicators: Check battery charge with a battery tester. **If charge is low, Connect the trailer plug to the tow vehicle so the Break-Away kit can charge (This can only be done after kit is installed on trailer).**

## Mounting Instructions

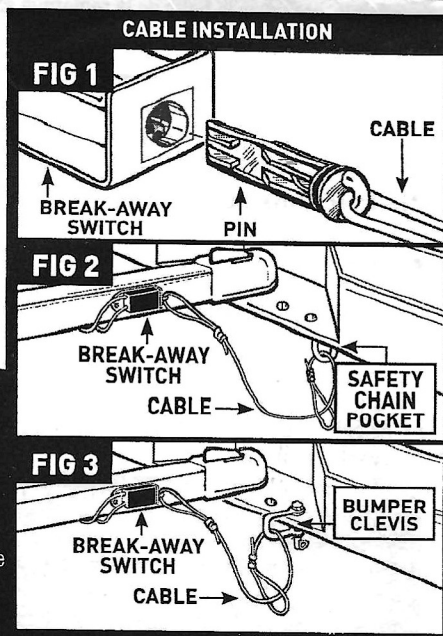
- Locate secure surface on trailer to mount Break-Away Kit.
- With flat washers on each screw, route through provided holes in each corner of the Break-Away kit plastic casing. Use screwdriver or drill and secure to trailer.

## Wiring Installation **WIRING DIAGRAM ON BACK**

- Splice the blue wire of the Break-Away Switch to the electric brake wire coming from the trailer side connector
- Connect the black (labeled battery) wire of the Break-Away Switch to the blue wire (labeled brake) from the Break-Away Box
- Splice white wire from Break-Away Box to existing ground wire on trailer or ground directly to trailer frame
- Splice black wire on Break-Away Box to trailer 12-Volt auxiliary power lead. This will charge the Break-Away Battery when vehicle is in use. **NOTE: Some break-away systems do not have a black wire. These systems will require the battery be fully charged, by a trickle charger, before use.**

## Break-Away Switch Setup

- Test unit by pulling firmly on cable of Break-Away Switch. Battery will activate brakes. **Note: Do not pull pin from the Break-Away switch if the trailer is electrically connected to the tow vehicle. This could result in damage to the tow vehicle.**
- Once tested, Break-Away Switch cable should be secured to vehicle bumper or frame. The cable can be attached many different ways. Two of the most common are: I. Pull the pin out of the Break-Away Switch (FIG 1) and route through safety chain pocket (FIG 2), then through cable loop and reconnect pin. II. Attach cable loop to a bumper clevis (FIG 3). Do not loop cable over hitch ball. Cable could bounce off while vehicle is moving. **Note: Pin must be facing the rear of the vehicle, directly behind the location of the cable on your vehicle. Anything else may cause Break-Away Switch failure.**



## Additional Information for Model Numbers 20099, and 20400

- The trailer plug should be detached from the towing vehicle when using the push to test feature to test the Break-Away battery voltage level. Otherwise you will be testing the towing vehicle's battery.
- If the trailer is plugged into the tow vehicle, the yellow "Charging" light will always be on
- The LED assembly will only work with 12-volt batteries. The lower the battery voltage goes, the dimmer the LEDs will illuminate

**YOUR TRAILER MUST HAVE OPERATIONAL ELECTRICAL BRAKES TO USE THIS PRODUCT**

# **WIRING DIAGRAM WITH CHARGER** **DIAGRAMA CON EL CARGADOR** **DIAGRAMME AVEC CHARGEUR**

● Splices | Empalmes | Épissures

