

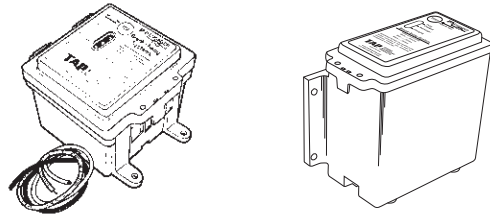


Break-Away System INSTRUCTIONS for Single & Tandem Trailers

PART #'s 20099, 20100, 20400, 20401

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

Break-Away Box: 20099, 20100 or 20400, 20401

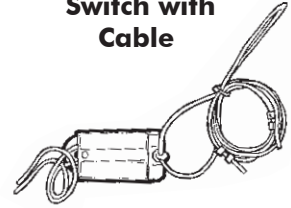


Self-Tap Screws



(3 with 20099, 4 with 20400)

Break-Away Switch with Cable



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 2000Kg GTM. The following instructions must be precisely followed to ensure proper operations. Please read the following instructions thoroughly before installing this product. Your trailer must have operational electric brakes before installation, and your auxiliary power wire on the tow vehicle must be connected. Once you determine your trailer brakes work, and you verify that your auxiliary power is connected, find a secure location on your trailer to mount the Break-Away Kit.

★ **UNIT MUST BE FULLY CHARGED BEFORE USE** ★

For Models 20099, 20100, 20400: If the red light illuminates when the test button is pushed, the battery charge is low. Connect the trailer plug to the tow vehicle so the Break-Away Kit can charge from the vehicle's battery. (This can only be done after kit is installed on trailer).

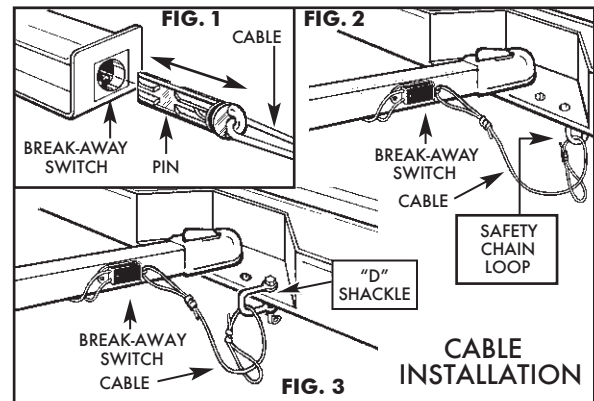
The amber light will illuminate indicating that the battery is charging. (NOTE: When trailer is plugged into a tow vehicle, the yellow "Charging" light will always remain on.)

The battery should re-charge in about twenty minutes.

For Model 20401: Check battery charge with a battery tester. If charge is low, follow instructions above. (This kit also has a built-in charger).

MOUNTING INSTRUCTIONS:

1. Locate secure surface on trailer to mount Break-Away Kit.
2. Route screws through provided holes in the Break-Away Kit plastic casing. Use wrench and drill to secure to trailer.
3. Next, mount Break-Away Switch close enough on trailer that cable can be attached to vehicle, then follow "Wiring Instructions".



WIRING INSTRUCTIONS:

1. Splice one blue wire of the Break-Away Switch to the electric brake wire coming from the trailer side connector (A - see diagram on next page).
 2. Connect other blue wire of Break-Away Switch to the blue wire (labeled "Brake") from the Break-Away box (B). (Note: Blue wires are interchangeable on the Break-Away Switch.)
 3. Splice white wire from Break-Away box to existing ground wire on trailer or ground directly to trailer frame (C).
 4. Splice black wire on Break-Away box to trailer 12-Volt auxiliary power lead (D). This will charge the Break-Away battery when vehicle is in use.
 5. Test unit by pulling firmly on cable of Break-Away Switch. Battery will activate brakes. (Note: Do not use this kit as a parking brake.)
- Battery should be charged and tested prior to each trailer outing.

OPERATING INSTRUCTIONS:

1. Test your Break-Away Kit before each outing as described in Step 5 of the wiring instructions.
2. 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: (1) Pull the pin out of the Break-Away Switch (Fig. 1) and route through safety chain loop (Fig.2), then through cable loop and reconnect pin. (2) Attach cable loop to a "D" Shackle (Fig. 3). Do not loop cable over hitch ball, as cable may bounce off while vehicle is moving. Note: Plunger pin must be facing the rear of the vehicle directly behind where you secure the cable on your vehicle. Any other angle may cause Break-Away Switch failure.

ADDITIONAL INFORMATION FOR MODELS 20099, 20100 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.
- The LED assembly will only work with 12-volt batteries. The lower the battery voltage goes, the dimmer the LEDs will illuminate.

Break-Away Kit Accessories and Replacement Parts

- #20005 Break-Away Switch complete with cable (7" wires)
- #20014 Break-Away Switch complete with cable (44" wires)
- #20007 Break-Away Kit Charger (20401 Only)
- #20009 Replacement Break-Away Switch cable and pin

20099 and 20100 Accessories

- #20105 Plain lid
- #20106 Lid with meter assembly
- #20107 Metal mounting plate

20400 and 20401 Accessories

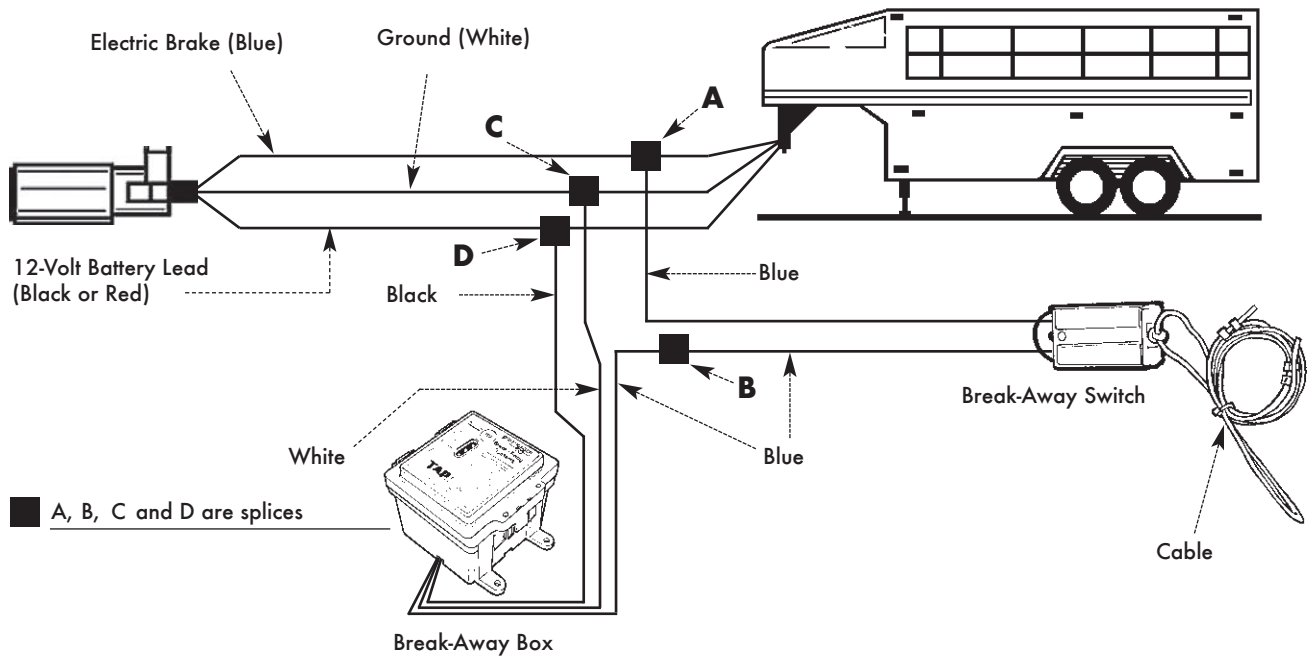
- #20405 Plain lid
- #20406 Lid with meter assembly (20401 can be upgraded to this lid)
- #20407 Metal mounting plate

★ **YOUR TRAILER MUST HAVE OPERATIONAL ELECTRICAL BRAKES AND YOUR AUXILIARY POWER WIRE ON THE TOW VEHICLE MUST BE CONNECTED TO USE THIS PRODUCT.** ★

The Engager Break-Away kit enables compliance with Australian Design Regulation (ADR) 38/03 Trailer Brake Systems. Please refer to your local state Road Authorities for individual installation requirements.

SEE WIRING DIAGRAMS ON REVERSE SIDE →

DIAGRAM WITH CHARGER



Note: Wire By Function Only. Color Coding is Not Standard Among Manufacturers.

PROQUIP
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