



## ReadyStop Break-Away Installation Instructions #RS-5000



### HOW DOES THE READYSTOP WORK?

The ReadyStop is a mechanically activated device that allows aircraft cable to pull through it in one direction only. The cable that goes through the device is connected to your towed vehicle brake pedal on one side and the other side has a swaged loop that comes out near the front bumper. This cable has to go through the firewall or floorboard of the towed vehicle to attach to the brake pedal. A sling cable is attached to the tow bar with (4) wire ties and then attaches to the motor home frame. In the event the towed vehicle should break away from the motor home these cables are pulled which makes the brake pedal pull down and hold. An oval sheer link in the cable assembly will snap after 300 pounds of pulling so the towed vehicle can come to a stop on its own without being connected to the motor home by only the aircraft cable. A release button manufactured into the ReadyStop allows for the quick and easy resetting of the break away.

### BEFORE GETTING STARTED...

The ReadyStop is shipped with the towed vehicle wire harness already placed through the break-away. Do not pull the cable out of the break-away red body as it is very difficult to get it ran back through.

**1. Carefully read the entire installation manual. You will need:** a drill, 1/8" drill bit, 3/16" drill bit, 3/8" open end wrench, a small socket set, wire cutters and RTV silicone.

### Installing the ReadyStop...

**Step 1. Locate the position where the aircraft cable will pass through the firewall.** To do this, depress the towed vehicles brake pedal and mark a spot on the firewall in relation to the travel of the brake pedal. This location should be positioned to allow for the brake pedal to be pulled in direct relation to the brake pedal travel. If you have a ReadyBrake towed vehicle braking system installed, keep the location of the hole through the firewall 1/2" away from the cable conduit firewall mount used for the ReadyBrake.

**Step 2. Pre-drill a 1/8" hole.** The location you have marked per step 1 should be drilled with a 1/8" bit making sure not to damage any engine components on the engine side of the firewall. Once you have successfully located the 1/8" hole it can be reamed out to 3/16".

**Step 3. Choose a location and mount the ReadyStop Break-Away.** This location should be as close to the front of the towed vehicle as possible and accessible in the event the ReadyStop gets activated. Position towards the drivers side tow bar mounting bracket. Use the ReadyStop as a template and mark the bolt hole locations for pre-drilling. Pre-drill these holes with a 1/8" drill bit and then mount the ReadyStop with the (4) hex head screws provided. The ReadyStop must be positioned with the arrows on the sticker pointing in the correct directions. One arrow will point toward the motor home the other toward the brake pedal of the towed vehicle. The ReadyStop may be positioned at any angle as long as these arrows are facing in the proper directions.

**Step 4. Install the towed vehicle break-away cable.** Adjust and wire tie the swaged thimble loop coming from the motor home side of the ReadyStop so it is easily accessible. Locate this loop toward the front bumper as close as possible to the drivers side of the baseplate bracket. **Note: This loop should be wire tied so it cannot be pulled by hand causing activation of the ReadyStop.** It should also be positioned where it will be away from anything that could snag and activate the ReadyStop. The remaining length of wire coming from the brake pedal side of the ReadyStop should be routed and fed through the firewall. Once the wire is fed through the firewall attach it to the brake pedal or floor style emergency brake pedal leaving some slack to loop up and tape to the side of the brake pedal arm. **Note: Leave 3-4" of slack and wire tie in several places to keep the harness from getting snagged. Seal cable at the floor with RTV silicone to weather proof the floor. When routing this cable consider the following:**

**A.** The wire **must not interfere with any moving parts** on the towed vehicle.

**B.** The wire **must be positioned so that activation does not damage any critical engine components** on the towed vehicle. For instance, do not route through spark plug wires or over a belt because when the cable gets yanked during activation it could cut the spark plug wires or belt in half leaving your towed vehicle disabled.

**Step 5. Install the wire loop onto motor home frame.** This location should be as far to the rear of the motor home as possible. The ReadyStop comes with a 3 foot length of aircraft cable that needs to be looped to a solid area on the motor home. Use the (2) two cable clamps provided to secure the cable ends. **Do not attach to any part of the towing system including the receiver on the motor home.**

**Step 6. Install the tow bar harness sling cable.** Attach the spring clip to the wire loop you just attached to the motor home. This spring clip needs to be on the permanently crimped (swaged) end of the tow bar harness sling cable. Run the remaining length of cable along the tow bar attaching it with the (4) wire ties provided. Place a loop on the towed vehicle side of this harness using the cable clamp provided and insert the second spring clip through this loop. This spring clip will be hooked to the towed vehicle harness when towing. Cut off any additional cable with wire cutters. **Note: Leave enough slack so that there is no danger of pulling on the towed vehicle break-away when turning or going over bumps.**

**Step 7. Now insert the nylon bolt and nut in the top of the ReadyStop unit. (FIGURE A) Tighten the nylon bolt down against the aircraft cable to prevent the accidental activation of the unit. Then tighten the nylon lock nut down against the body to keep the bolt from backing out. If activated the cable will pull out and wear the nylon bolt end down.**

**System Operation and Maintenance...**

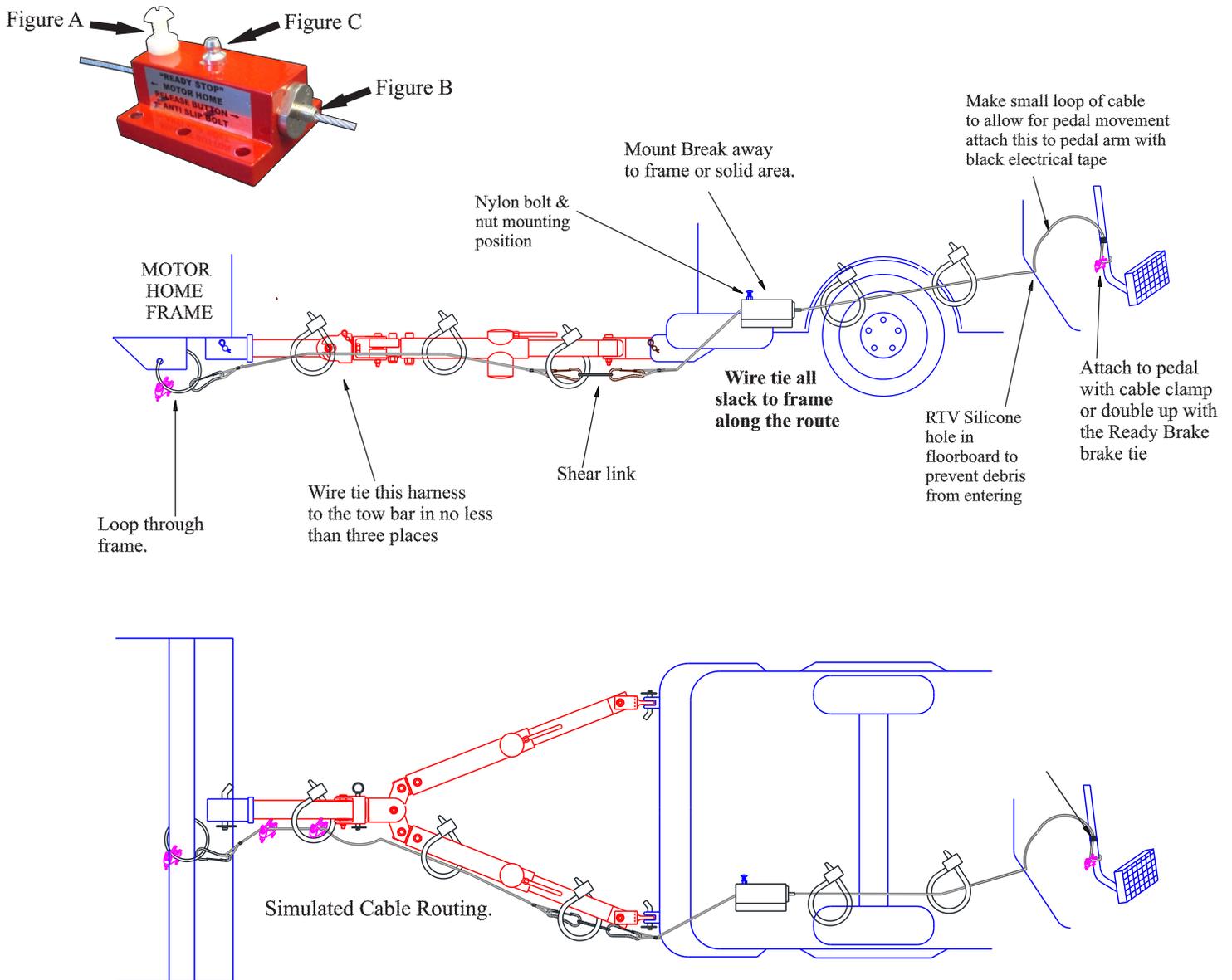
Attach the spring hooks when towing and unhook when not in use. The following maintenance should be practiced on a regular basis:

- A. Check the cables for areas where they may have become too tight or too loose.**
  - B. Check the cable clamps for loose nuts.**
  - C. Check for worn or frayed cable conditions.**
  - D. Fix any problems you encounter immediately.**
  - E. To keep water and dirt out of the ReadyStop body you can pump gun grease in the zerk (Figure C) positioned on the top of the break-away body.**
- A squirt of grease 2-3 times a year will push out water & dirt to allow the break-away device to work when needed.**

**Note:** In the event the ReadyStop should become activated it may be reset by relieving the pressure between it and the towed vehicles brake pedal. The **release sleeve** (FIGURE B) on the ReadyStop can then be depressed allowing the cable to pass back through the ReadyStop, returning the towed vehicles brake pedal to its original position.

*All parts damaged during activation of the unit must be replaced with new parts.*

*N.S.A. RV Products Inc. cannot be held liable for improper installation or improper use of the ReadyStop The product meets all U.S.A. state and Canadian break-away requirements.*



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