



## REP Design LLC

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### INSTALLATION INSTRUCTIONS: **SARM-100<sup>®</sup> Antenna Mount 11-inch Extension Bracket**

**Thank you for your purchase! We appreciate your business and would like to hear from you about your installation – comments, suggestions and photos! Also, let us know if you have ideas for new products!**

These instructions describe how to use the SARM-100<sup>®</sup> (“SARM”) 11-inch extension bracket for motorized / screwdriver antenna mounts. These instructions cover both Series 12 (unfinished aluminum) and Series 14 (Powder Coated Paint, all colors) – except for finish both series are identical.

**If you do not feel that you have the ability to safely install the SARM to your antenna and vehicle, please contact us. You can return the product within the first two weeks if it does not meet your needs (see enclosed Warranty). The SARM is *NOT* designed for pulling a trailer, or holding a bike rack or anything other than an HF motorized/screwdriver antenna. Please note that doing so will void the warrant. SAFETY FIRST!**

#### **PRODUCT DESCRIPTION**

The SARM is a great way to extend your HF motorized / screwdriver antenna mount 11 inches from your mounting point (e.g. trailer hitch, truck bumper or any horizontal surface that you can mount the SARM and your HF antenna mount to).

The SARM is your solution if you want to use your hitch-mounted HF antenna at the same time that you want to pull a trailer or use a hitch-mounted bike rack, or if you want to simply extend your antenna farther away from your vehicle!

The SARM can be used with our “UHAM-100<sup>®</sup>” universal heavy duty HF motorized / screwdriver antenna mount, or with any brand of mount that can be bolted to the SARM via the one-inch mounting hole.

The SARM is available in 5 standard powder coated paint colors (black, red, white, blue and clear coat) and bare aluminum.

#### **INSTALLATION.**

The SARM has 1 inch diameter holes on each end. One end is for mounting the SARM to your vehicle and the other end is for mounting to your HF antenna mount. The vehicle end can be mounted under a trailer hitch ball or under a bike rack.

You can use a ¾” to 1” diameter bolt or trailer hitch ball to mount the SARM to your vehicle. Mount the other end to your antenna mount/bracket, using a bolt that fits your mount and the SARM. If you use a smaller bolt you may want to use a spacer between the bolt and the inside of the SARM hole. No special tools are required to mount the SARM.

It is recommended that you use stainless steel or chrome-plated hardware. Be sure to use lock washers on both ends. Use a flat washer between the bolts / hitch ball and the SARM to help protect the finish.

Run a separate, short, ground cable from your antenna mount to a good vehicle chassis/frame ground. As is the case with any mount, do not rely on the ground connection between your mount and vehicle, via the SARM, trailer hitch or bumper.

Please see the last page for photos of example installations.

#### **MAINTENANCE.**

The SARM requires little maintenance because it is made from 6061/T6 aluminum. If used during winter or near salt water be sure to wash it with soap and water as soon as practical after exposure, as you would your own vehicle. You can also use isopropyl rubbing alcohol. This is more important for the bare aluminum version. The powder coated paint version is very resistant to weather conditions. You may want to occasionally use a good automotive wax (e.g. carnauba wax) but do NOT use abrasive “polishing compound” as this may affect the finish.

#### **ACCESSORIES AND RELATED PRODUCTS.**

Check out our web site for our other related products, photos and customer installation photos. We regularly add new information, downloads and products to our web site! Also let us know if you have ideas for new products or suggestions / improvements to our products. We keep the most up-to-date product instructions on the web site. [www.repdesign.us/](http://www.repdesign.us/).

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### **SARM INSTALLATION PHOTOS.**

Figure 1: Matte Black powder coated paint (Series 14), one of five colors, and bare aluminum (Series 12) versions.



Figure 2: One configuration of the SARM, with trailer hitch ball and the “UHAM-100” motorized antenna mount parallel to the vehicle bumper (seen at the left center of photo). You can also use an “any brand” mount with the SARM. In this configuration a trailer can be used at the same time you work DX with your HF antenna.



Figure 3: Same as Figure 2, except the HF antenna mount is turned 90 degrees and points backwards. If used with a trailer, be sure that the trailer does not contact the mount with this configuration!



Figure 4: The Series 12 bare aluminum SARM with a bike rack on a vehicle with a Hi Q Antennas 5/160 antenna. The SARM is mounted to the hitch with the bolt that mounts the bike rack to the hitch.

