Sport Bike Radar Mount

Installation and Usage Guidelines

The Sport Bike Radar Mount has been optimized for use with the Valentine 1 and Escort 6800 / 7500 / 8500 radar detectors. However, it has been designed to accommodate the majority of radar detectors. In some steps, references to specific models have been included to make installation easier.

Tools needed to mount the LEGAL SPEEDING Sport Bike Radar Mount:

- High speed drill and drill bits
- Dremmel tool with cut off bit (or a device that can be used to cut the excess length from the aluminum screws)
- Phillips screwdriver
- Metric or English ruler
- Safety glasses
- 20” piece of string or removable ink pen
- Marking scribe

The Sport Bike Radar Mount kit contains the following:

- Sport Bike Radar Mount – 1
- Velcro strap – 1
- 8/32 Aluminum screws – 4
- #8 Hinged screw covers – 4
- Rubber spacers – 5
- 3/8” Rubber bumpers – 4

Note: If any hardware components are missing, don’t panic. Aside from the mount and Velcro strap, all the hardware components can be purchased at your local hardware store, Home Depot, or Lowes. We have included one extra hardware component should one be damaged during installation.

The purpose of Steps 1 - 3 is to identify the location of the Sort Bike Radar Mount (SBRM) and radar detector on the motorcycle windscreen.

1. Do not place the rubber bumper mounts on the SBRM. This will be done in a later step. The SBRM comes with the Velcro strap in place. It is woven through the slots in the SBRM. Place your radar detector in the mount Velcro ‘sling’ (see figure 1) with the end of the detector containing the lighted display at the end of the SBRM containing the two screw holes. On a Valentine detector, make sure the single tapped hole on the pointed end of the SBRM lines up with the last row of the ribs on the top of the Valentine detector. On an Escort detector, make sure the single tapped hole on the pointed end of the SBRM lines up with the indention found on the top of the detector. This indention is where the windshield bracket slides in the detector. Tighten the Velcro strap enough to hold the detector in place as you locate the SBRM on the windscreen. Do not worry about the case of the detector coming in contact with the SBRM. Later when you add the rubber bumpers to the SBRM, this contact will be eliminated.
2. With the detector in the SBRM, sit on the motorcycle and locate the SBRM on the windscreen in a position that allows a clear view of both the detector and the gauges on the motorcycle’s instrument cluster. Each motorcycle and rider will have a different mounting point for the SBRM.
3. Measure the distance from the upper edge of the windscreen to the two-holed edge of the SBRM (see figure 2). Remember this measurement. It will be used in Step 6 when

drilling the first hole on the windscreen. For the Valentine, a distance of 1" to 1 1/2" has been found to be the optimal figure. For Escort models, locate the SBRM such that the control buttons on the top of the Escort detector can be accessed. For other detector models use the above placements as guidelines.

The purpose of Steps 4 – 7 is to locate and drill the first hole in the windscreen used to mount the SBRM.

4. Remove the windscreen from the motorcycle. Clean the windscreen if necessary.
5. Locate the centerline of the windscreen. Once located, a line can be drawn with removable ink or by using a string taped in place (see figure 3).
6. Once the centerline is marked, take the SBRM (remove the detector from the Velcro strap and remove the Velcro strap from the SBRM) and place it on the underside of the windscreen. The placement of the SBRM will be located using the measurement from Step 3 (see figure 3).
7. The centerline is used to locate the first hole to be drilled for the SBRM. The first hole to be drilled is for the aluminum screw found on the pointed end of the SBRM. Mark the location for the hole and drill.

WHEN DRILLING PLASTIC, IT IS ALWAYS RECOMMENDED TO USE SHARP TOOLS. IF YOU ARE NOT FAMILIAR WITH DRILLING PLASTIC, YOU MAY WANT TO MARK THE HOLES AND HAVE A PROFESSIONAL DRILL THE HOLES. YOU CAN AVOID DRILLING THE WINDSCREEN BY USING A HOT WIRE TO MELT THROUGH THE PLASTIC AND THEN CLEAN AND ROUND THE HOLE USING A SMALL FILE. AGAIN, THE DANGER OF CRACKING THE WINDSCREEN IS POSSIBLE IF YOU ARE NOT FAMILIAR WITH PROPER PROCEDURES WHEN WORKING WITH PLASTICS. CONSULT PROFESSIONAL HELP IF NECESSARY.

The purpose of Steps 8 – 9 is to locate the two remaining holes in the windscreen to mount the SBRM.

8. Once the first hole is drilled, take one of the aluminum screws and place a hinged screw cover over it. Put the screw through the hole and place a rubber spacer on the underside of the windscreen. Take the SBRM and thread the screw into the SBRM as if you were going to mount the SBRM permanently. Do not tighten the SBRM for you may scratch the underside of the windscreen. This step is for locating the remaining two holes.
9. Align the SBRM so it is parallel to the edge of the windscreen or is in the position you chose in Steps 1 – 3 (see figure 4). Mark the location of the remaining two holes. Remove the SBRM from the windscreen. Drill the two remaining holes.

The purpose of Steps 10 – 12 is to remove the excess length from the three screws in order for them to be flush with the bottom of the SBRM.

10. Take all three screws and place a hinged screw cover over each. Place the screws through the holes in the windscreen. Place a rubber spacer on the underside of the windscreen on each of the screws. Extra spacers may need to be placed on the two screws toward the top of the windscreen. Extra spacers have been included. The SBRM should not come in contact with the windscreen. The spacers have a small outside diameter in order to provide the 'floating' effect look of the SBRM placement. This also provides a clean factory look for the SBRM (see Figure 4).
11. Tighten the screws making sure the SBRM does not come in contact with any part of the windscreen.
12. The screws need to be flush with the bottom of the SBRM in order to avoid contact with the radar detector. Using a Dremmel with cutoff blade (or similar cutoff tool) cut the excess of each screw so the end of the screw is flush with the bottom of the SBRM. Aluminum screws were chose to make the cutting process easy. When cutting the screw

flush, be sure to avoid overheating the assembly. Overheating the assembly could melt some of the plastic components.

The purpose of Steps 13 – 17 is to complete the installation.

13. Once the screws have been cut flush with the bottom of the SBRM, remove the screws, taking time to remember which screw goes in each hole. Thoroughly clean the assembly removing the aluminum dust, plastic, and any marks made when locating the centerline.
14. Reassemble the SBRM and permanently mount the device to the windscreen. To keep the screws in place, the use of Loctite (or similar substance) is recommended.
15. Once the screws have been tightened, the final step is to add rubber bumpers to keep the detector from coming in contact with the SBRM. One rubber bumper should be placed over the screw located on the pointed end of the SBRM. See figure 5 for placement of the remaining two rubber bumpers for Valentine and Escort detectors. For other detectors, place the remaining two bumpers in order to avoid the detector and SBRM from coming in contact.
16. Mount the windscreen on the motorcycle.
17. Run the Velcro strap through the slots in the SBRM. The hook and loop side (fuzzy side) should be on the outside of the sling in order for it to properly hook into itself once the detector is put in place (see Figure 6).

Congratulations! You have successfully mounted your new LEGAL SPEEDING Sport Bike Radar Mount.