

# SkyRunner Installation Guide

## **Step A**     **Mounting the VLM**

1. Identify a mounting location that is smooth and has a clear view of the sky.
2. A minimum "look angle" of 15° should be maintained from any obstruction. (see figure 1 below)
3. The mounting surface should be horizontal during normal operation.
4. The SkyRunner should be mounted so that the exterior cable faces the rear of the vehicle to minimize exposure to driving rain & debris.
5. Before the cable is run through the cab wall and grommet, leave a drip loop to prevent water from running down the cable and dripping into the cab. (see figure 2 below)

## **Step B**     **Mounting the VLM**

1. The standard mount supplied with the SkyRunner is 3 rubber vibration isolator's with lock nut's & washer's.
2. When installing the mounts to the base of the SkyRunner apply a small amount of an anti-seize lubricant or a thread locking compound.
3. Use the studs from the vibration isolators to mark the mounting location on the vehicle.
4. Drill the marked locations on the vehicle.
5. Use a silicone sealant to weather proof the drilled holes.
6. Magnet mounts are available for purchase; contact your sales associate if needed.

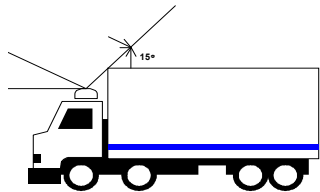


Figure 1: Look angle

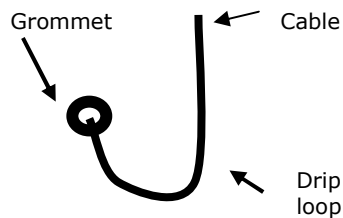


Figure 2: Drip loop

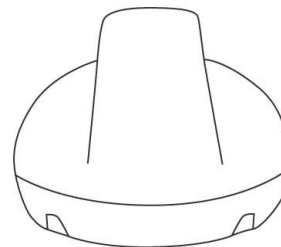
## **Step C**     **SkyRunner Power connections**

1. **Ground:** Connect the BLACK wire to a chassis/vehicle ground. Choose a good snug ground point that is not painted.
2. **Power:** Connect the RED wire to a 12 volt constant supply. This connection must be fused and capable of supplying 3.5 amp at +12VDC (fuse provided)
3. **Ignition:** Connect the YELLOW wire to a 12 volt SWITCHED source. This connection should be fused and capable of supplying 1 amp at +12VDC when the vehicle is on and 0VDC when the ignition is off. **\*If this lead is NOT connected to ignition switched source, then the unit will report continuously and result in monthly overage charges.**
4. The best connections are the auxiliary power connections on the fuse panel provided by some vehicle manufactures.
5. Connect and test all wires before connecting the power harness to the VLM.
6. Pin outs for the power harness: Pin A = Ground. Pin B = +12V constant. Pin C = +12V Switched.
7. Apply a small amount of silicone dielectric (included) to the port on the SkyRunner before connecting the power harness.
8. Fuse connection kits may be needed. (not supplied)

## **Final Step**     **Installation Verification**

1. With the vehicle outside and away from tall buildings with a clear view to the south; leave the ignition on for at least 10-15 minutes.
2. For 3<sup>rd</sup> party installer's please call TYT to verify that the unit is working properly. 630-243-1982 choose the technical support option.

**DO NOT paint the surface of the SkyRunner as it will degrade the performance of the unit.**



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