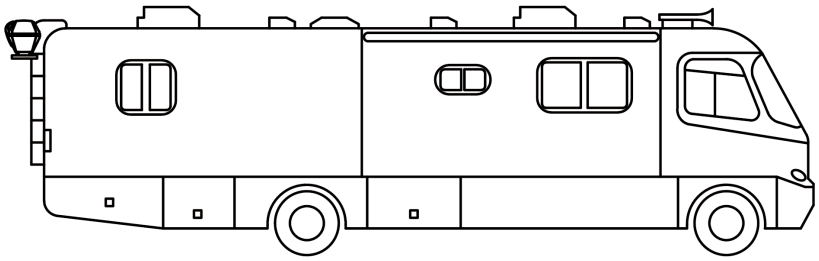
MB410 Flex Install Kit

Installation Instructions



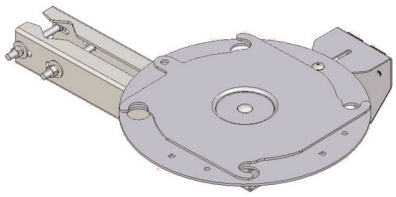
Note: Please read thru the entire installation procedure before beginning. Questions? (800) 982-9920

The MB410 Flex Install Kit allows semi-permanent installation of VuQube models VQ2000 and VQ3000 on the rear ladder of your RV, and includes everything required to hard wire your RV for the VuQube.

1. Unpack and verify all components are included **(Fig. 1)**.

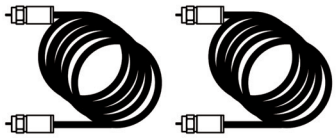
Fig. 1

MB410 Flex Install Kit Contents



Ladder Mount Bracket with Mounting Hardware and Locking Bolt

Controller



(2) 50' RG6 Coax Cables

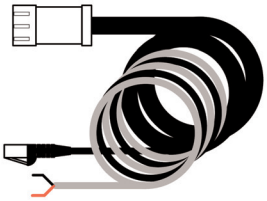
(2) Cable Entry Covers

TRACK SATELLITE
Press ▲

Controller Label

MAIN MAIN

Main Coax Label



21' Power/Controller Cable

(3) Protective Caps

Cable Stowing Strap

(2) Coax Barrel Connectors

LADDER MOUNT BRACKET INSTALLATION

2. Determine the desired height and location of the VuQube. Keep in mind the following:

   a) The VuQube is a directional antenna and requires an unobstructed view to the southern sky. Be sure at least 4” of the VuQube enclosure are above the roof of the vehicle so that adequate signal can be received by the antenna. When installing the bracket, adjust the height of the arms on the ladder to assure the top of the VuQube is positioned a minimum of 4” above the roof.

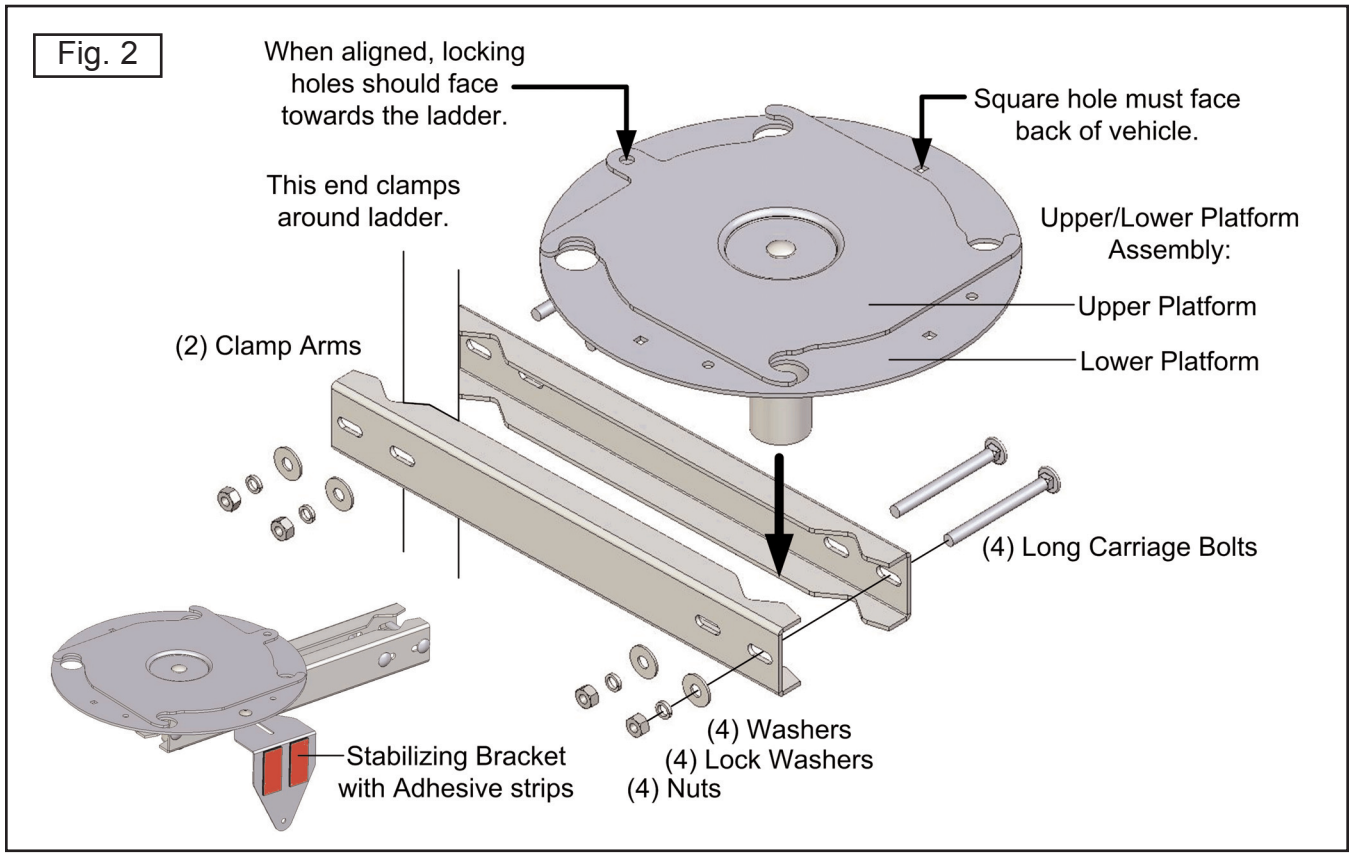
   b) The VuQube requires a 16” wide space to be mounted.

3. Attach the ladder mount bracket to the ladder so that the VuQube sits in the desired location. Tighten all hardware securely **(Fig. 2)**. Keep in mind the following:

   a) The stabilizing bracket adheres to the back of the vehicle and fastens to one of the square holes in the lower platform. Make sure one of the square holes faces the back of the vehicle.

   b) When the locking holes align, they should face toward the ladder for easy access. A locking bolt (included) or other locking device such as a padlock **MUST** be inserted through the holes to prevent the upper platform from rotating and accidently releasing the VuQube.

   c) You can change the angle of the clamping arms on the ladder and rotate the upper/lower platform assembly to position the VuQube close to the back of the vehicle.



IMPORTANT! An adhesive backed bracket is included to stabilize the VuQube. <u>THIS BRACKET MUST BE ATTACHED TO THE VEHICLE USING THE ADHESIVE STRIPS ON THE BRACKET</u>. Failure to attach this bracket will void the VuQube warranty.

The area where the adhesive will adhere to the vehicle must be flat, free of contaminants and have the paint tightly adhered.

The temperature must be above 65° for the adhesive to adhere properly.

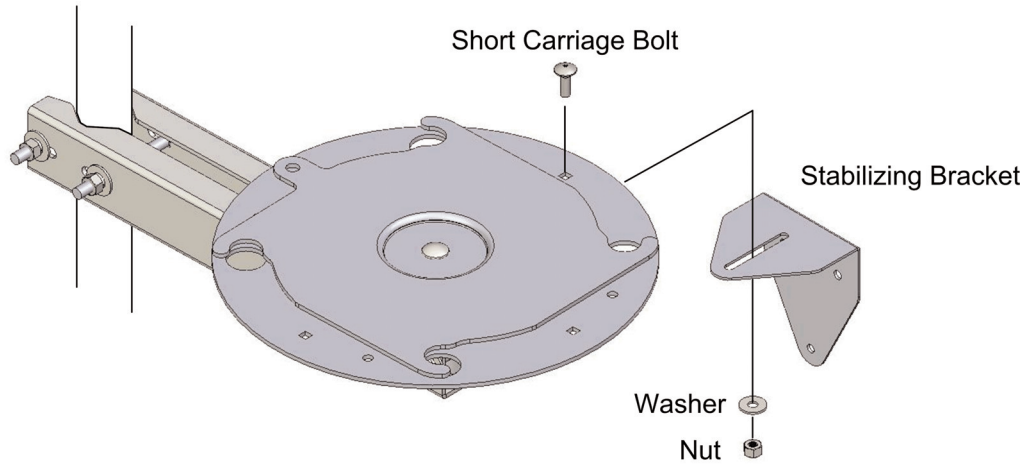
4. **TEMPORARILY** place the VuQube in position on the platform (rubber feet on VuQube will sit in matching holes in platform). Verify VuQube is at correct height and stabilizing bracket will reach back of vehicle. (Stabilizing bracket will slide along slot to reach back of vehicle.) Remove VuQube from platform.

   If not at correct height, **REMOVE VUQUBE FROM PLATFORM FIRST**, then adjust platform as necessary. Repeat step 4 as necessary.

5. Use alcohol to thoroughly clean the area where the adhesive on the bracket will contact the vehicle.

6. Fasten the stabilizing bracket to the platform with the short carriage bolt, washer and nut. **DO NOT TIGHTEN COMPLETELY. BRACKET SHOULD SLIDE BACK AND FORTH ALONG SLOT (Fig. 3)**.

Fig. 3



7. Remove the protective tape from adhesive strips on bracket and press the bracket firmly onto the vehicle.

8. Tighten nut.

9. Allow adhesive to dry 20 minutes.

EXTERNAL WIRING

IMPORTANT! **<u>USE ONLY THE COAX CABLES SUPPLIED WITH THE VUQUBE.</u> <u>COIL AND STORE EXCESS CABLE IN THE CABINET WITH THE COMPONENTS. DO NOT CUT COAX.</u>**

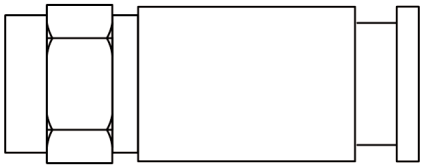
If coax cable other than that supplied with the VuQube is used, the following guide lines must be followed (Fig. 4):

a) Ends must be terminated with SNAP-N-SEAL® connectors. <u>(DO NOT USE TWIST-ON OR HEX-CRIMPED CONNECTORS.)</u>

b) Cable must be RG6 and rated at 2.2 GHz or higher.

Fig. 4

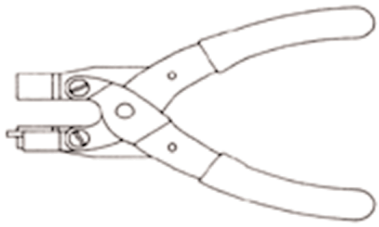
SNAP-N-SEAL® CONNECTOR



Thomas and Betts part # SNS 1P6

King Controls part # 10211

CRIMPER



Thomas and Betts part # SNSUTL

King Controls part # 10204

10. Place the VuQube on the platform. The coax connections should be positioned away from the back of the vehicle and to the side with the ladder for easy access **(Fig. 6)**.

    The VuQube's rubber feet should sit in the 4 large holes in the lower platform.

11. Rotate the upper platform counterclockwise to capture the rubber feet.

IMPORTANT! You <u>MUST</u> install the supplied locking bolt, or other locking device such as a padlock through the alignment holes in the upper and lower platforms to prevent the VuQube from accidently coming off the platform.

12. Install the supplied locking bolt or other locking device such as a padlock through the alignment holes in the upper and lower platforms. You **<u>MUST</u>** do this to prevent the VuQube from accidently coming off the platform.

13. Install protective caps on main harness and (2) coax cables **(Fig. 5)**.

14. Plug main harness into wiring port on back of antenna unit and tighten connection until it clicks past the detent lock. A channel lock pliers may be used to **CAREFULLY** tighten the connection.

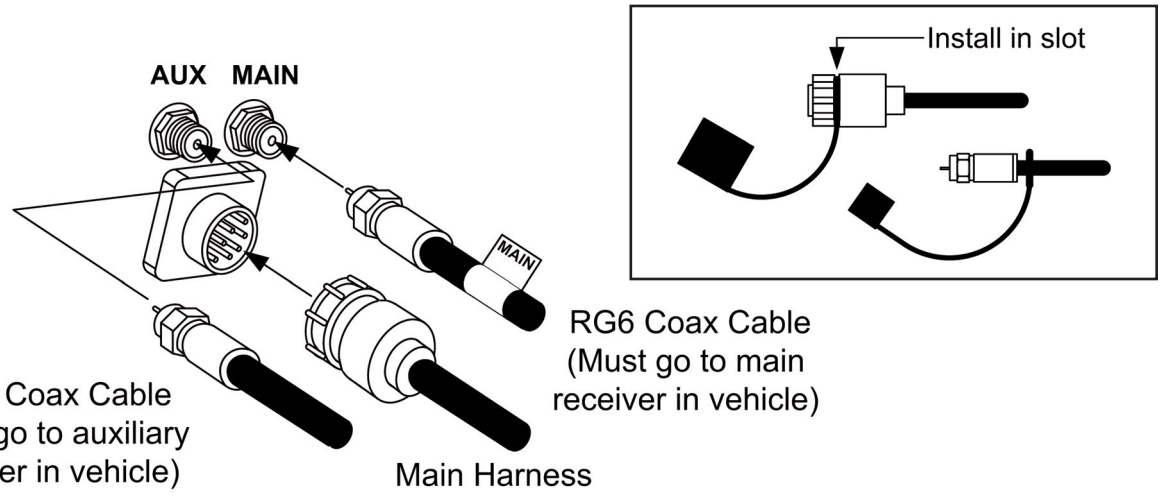
Note: The VuQube is wired for a dual LNB. There are two coax ports on the back of the antenna unit. The one labeled "MAIN" **MUST** be connected to the main receiver in vehicle. (The main receiver is hooked up to the main TV located in the front of the vehicle.) This is the receiver that will control automatic satellite switching if applicable. The one labeled "AUX" can be used for an additional receiver.

15. Apply MAIN label to the coax cable that will go to the main receiver. Connect the labeled end of this coax to the MAIN port and tighten connection.

    If using a second receiver, connect the second coax cable to the port labeled AUX and tighten connection.

    DO NOT OVER TIGHTEN CONNECTIONS.

Fig. 5



IMPORTANT!
The alignment tabs on the wiring port and the main harness plug must match up when engaging plug onto port.

16. Determine where you want the wiring to enter the vehicle based on the location of your receivers and power source. Route the wiring to the entry points. The main harness and auxiliary coax will enter closer to the back of the vehicle and the main coax will enter farther to the front **(Fig. 6)**.

17. Drill the appropriate size holes in the roof of the vehicle to accommodate the wiring.

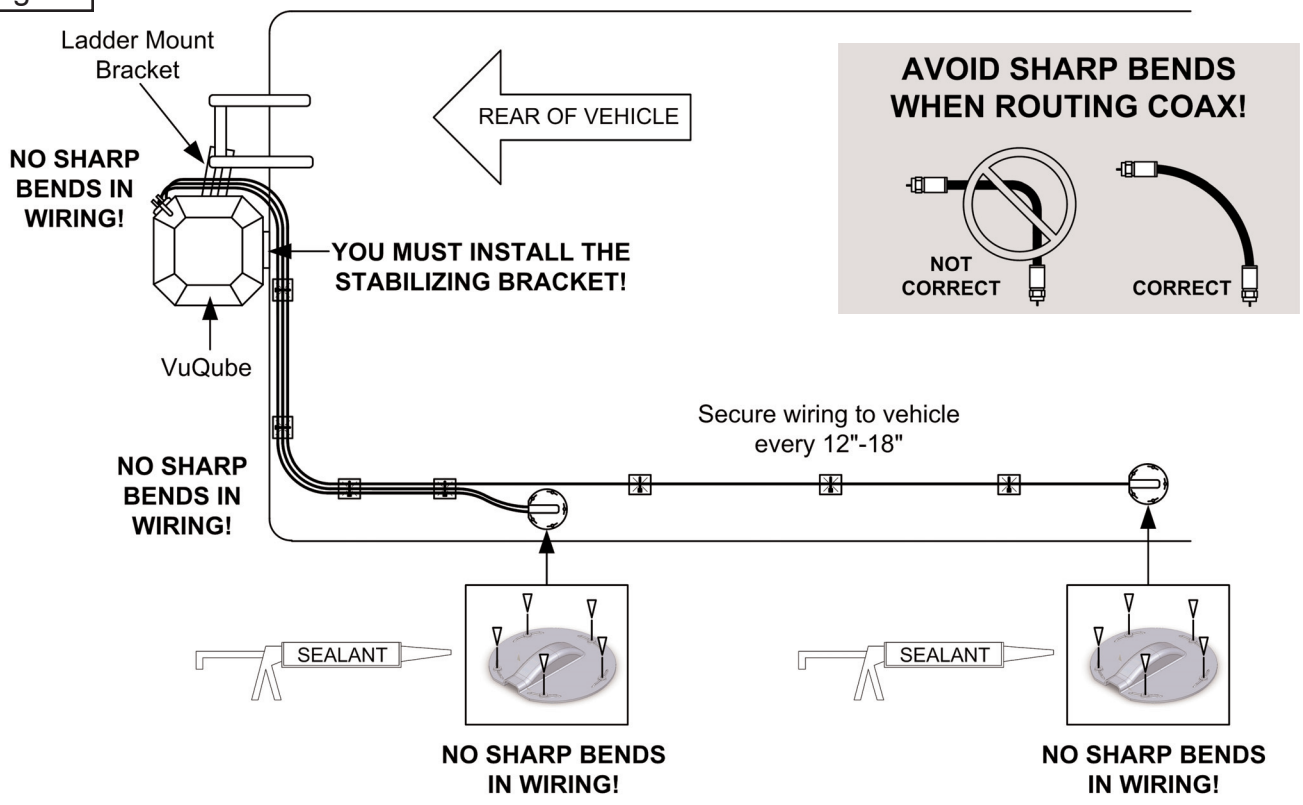
18. Run the wiring down into the vehicle. Seal openings with roof compatible sealant so that they are entirely waterproof (inside and outside of the holes).

19. Fasten cable entry covers to roof. Seal mounting holes, perimeter of covers and cable openings so they are completely waterproof.

20. Secure external wiring every 12"-18".

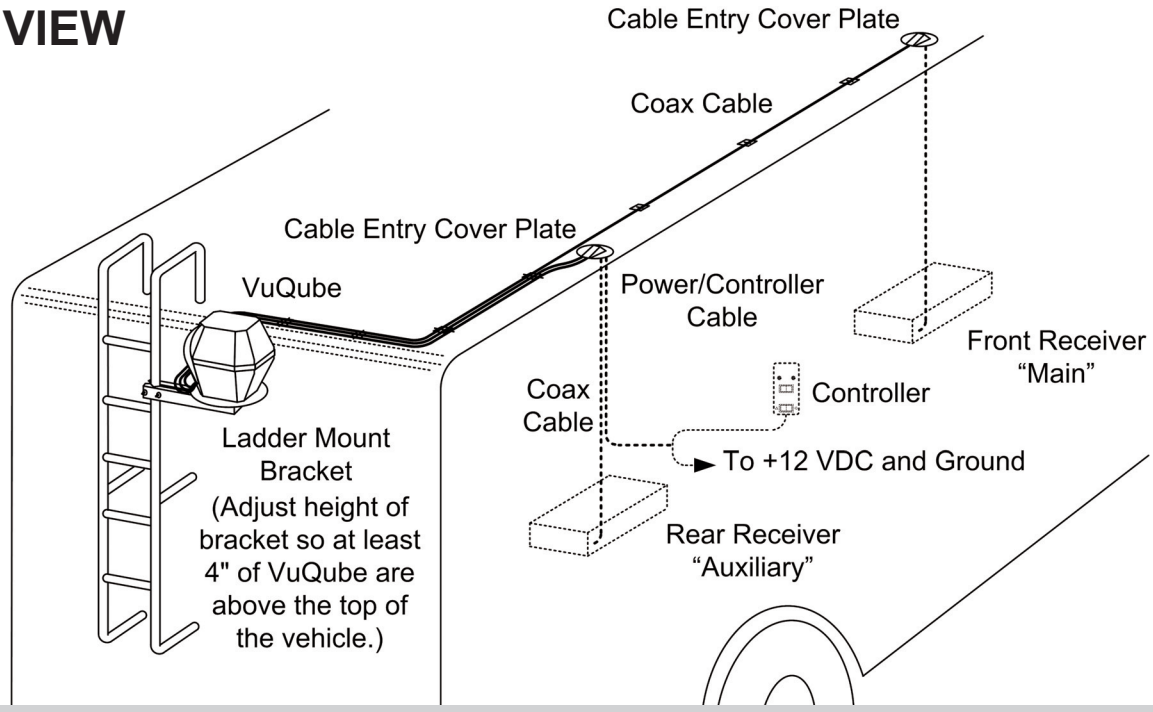
Fig. 6

OVERHEAD VIEW



ALL HOLES MUST BE COMPLETELY WATERPROOFED WITH VEHICLE COMPATIBLE SEALANT.

BACK VIEW



IMPORTANT! Installer is responsible for determining proper roof compatible fasteners for covers.

Roof holes for wiring must be sealed so they are entirely waterproof. Mounting holes, perimeter of cable entry covers and cable openings of the cable entry covers must be sealed so they are completely waterproof. Sealant must be roof compatible.

INTERNAL WIRING

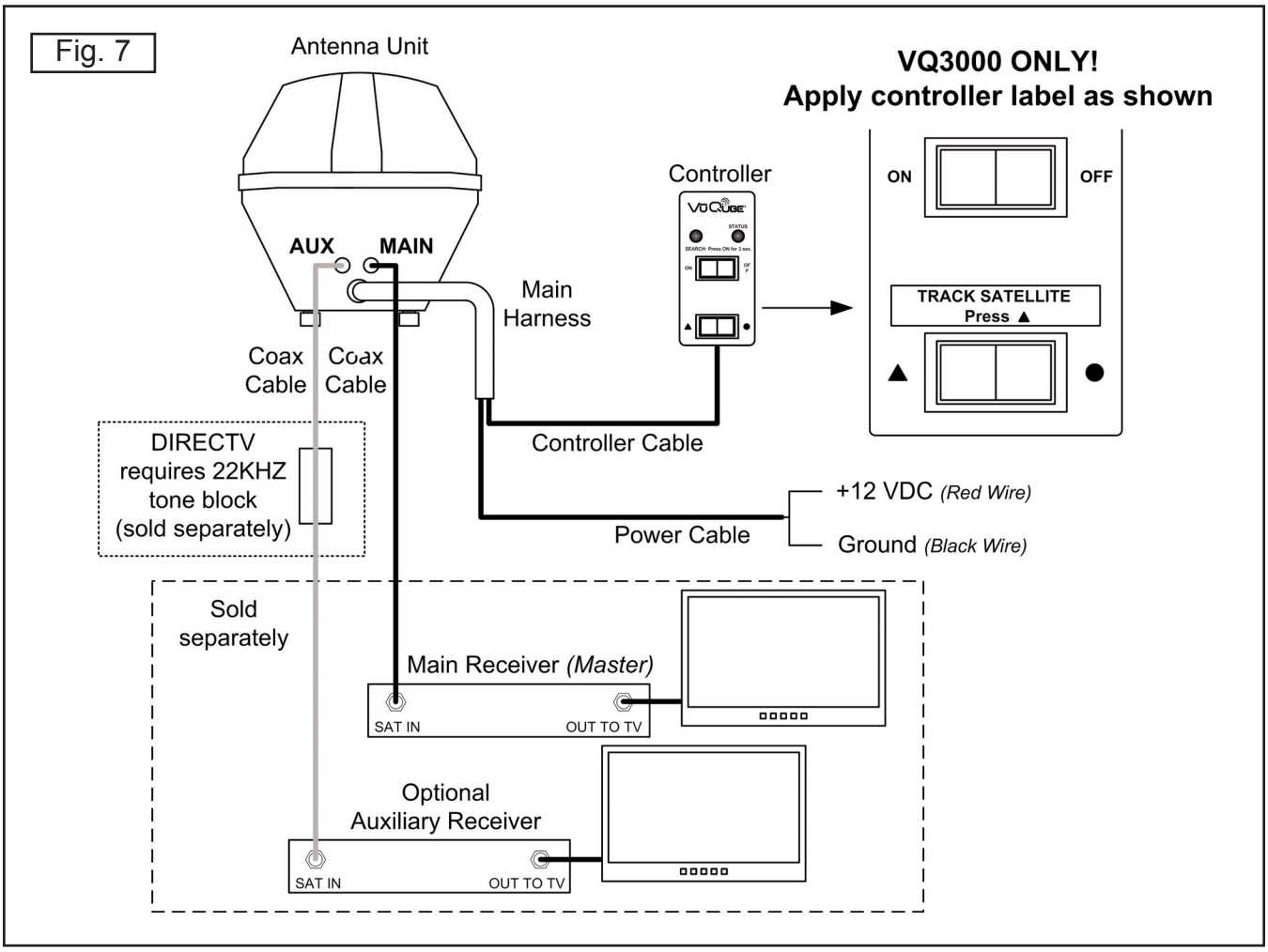
21. Inside the vehicle, make the connections as shown in **Fig. 7**. Keep in mind the following:

    a) **The connection between the antenna unit and the receiver must be a direct connection with no devices in between.**

    b) **Power connection must be a non-shared circuit.** Excessive current draw on the circuit will cause the unit to operate improperly. Power and ground connections must be made after the main harness is plugged into the antenna unit.

    c) **If fusing the circuit, the fuse must be rated at 7.5 amps.**

Fig. 7



USING THE QUICK RELEASE FEATURE OF THE MB410

To remove VuQube from ladder mount bracket: Disconnect cables. Push the protective caps onto the ends of the cables. Secure cables to bracket with cable stowing strap. Remove locking device, rotate upper platform clockwise, and remove VuQube.

To attach VuQube to ladder mount bracket: Set VuQube into holes in lower platform, rotate upper platform counterclockwise and install locking device. **YOU MUST INSTALL THE LOCKING DEVICE!** Remove the protective caps and connect cables to the VuQube.

PORTABLE HOOKUP USING THE SUPPLIED BARREL CONNECTORS

For quick hookup of the VuQube in portable applications, you can use the hard wired coax connections at the back of the vehicle. Make the connections as shown below.

Note: Auxiliary coax may be connected as well.

Fig. 7