INSTALLATION INSTRUCTIONS:

ALL CHANNEL RV ANTENNA FOR B/W / COLOR TV & FM

NOTE: THE OVERALL LENGTH OF THE SKYLINER ANTENNA WHEN LOWERED IS 60 INCHES.

CAUTION: DURING INSTALLATION AND USE OF THE ANTENNA, MAKE SURE LEGS AND HEAD CANNOT ACCIDENTALLY COME INTO CONTACT WITH ANY POWER LINE. CONTACT WITH POWER LINES COULD RESULT IN SERIOUS INJURY OR DEATH.

WARNING: DO NOT TRAVEL WITH ANTENNA IN RAISED POSITION!

TOOLS REQUIRED:
1. Electric hand drill
2. 1/2" drill (long enough to penetrate roof)
3. 1/8" Drill, 3/32 Drill, 5/32 Drill
4. Screw drivers (Phillips & straight)
5. Hacksaw
6. Caulking compound

NOTE: "Pop" rivet gun and 1/8" pop rivets may be used to secure mounting plate to roof if the vehicle roof material is suitable.

After removing antenna from carton, TURN THE MOUNTING PLATE (12660) CLOCKWISE (LOOKING AT TOP) TO THE STOP BEFORE STARTING TO INSTALL. Also, make sure UHF dipoles are set in position shown in fig 2.

Select a position on the recreational vehicle roof that will allow the Skyliner to (a) lay horizontally at rest, (b) raise fully and rotate fully, and (c) lower without disturbing other roof top equipment, such as, vents and air conditioner, etc. Decide upon the entry of the coax cable. In many cases the refrigerator vent provides a convenient and weatherproof entry, but the oven vent is not advised because of the high temperature. Due to the large variations in vehicle construction it is not possible to recommend a particular entry position. (d) It is advisable to overlap a roof stud with the front edge of Mounting Plate (12660). DO NOT drill roof stud for drive shaft, (12927) or stud will be weakened.

CAUTION: Before proceeded with any drilling , check point (a), (b), and (c) again and note that the turning radius of the antenna base is 7 inches. Having satisfied these requirements, mark the position selected and proceed as follows.

INSTALLATION:
CAUTION THERE MAY BE WIRING BETWEEN ROOF & CEILING.

1. At the marked position, drill a pilot hole through root and ceiling. Keep drill perpendicular to roof this is important! Misalignment will cause drive shaft to bind on edges of roof or ceiling after installation.

2. Enlarge this hole using a 112 " drill - keeping it perpendicular while drilling. Clear away any insulation material in hole.

3. It using cable entry provided at front edge of mounting plate (Fig. 1.) see template in wiring diagrams and use it to position 2nd 1/2" hole for the coax cable. Note- Some RV manufacturers install coax during construction of RV's.

4. Do not caulk mounting plate at this stage, but lower the antenna into position, passing drive shaft down through the 1/2" hole in roof. Mounting plate should look like Fig. 1 when viewed from above. Note:

"Front Of
Vehicle" direction.

5. Position travel support (11699) as in Fig. 2 so that fully lowered antenna allows mounting plate to rest flush on root surface.
Drill 3/32" holes in roof, apply caulk and screw travel support down using 2 x No. 10 x 3/4 - (81008) screws supplied.

6. Leave antenna in lowered position resting in travel support.

7. Inside RV center the drive shaft (12927) in the ceiling hole and carefully fit the ceiling plate (10302) using 3 - 4 x 3/8" (81007) screws or "Pop" rivets.

8. Measure and mark the drive shaft as shown in Fig. 3, remove antenna from roof and saw off excess shaft and remove “burr" with a file.

9. Push crank handle (10739) on to shaft and mark shaft by tightening set screw. "Dimple" the shaft at this mark using a drill, so that set screw enters shaft when tight.

NOTE:
Minimum length of coax cable between point A & roof entry is 48".

COAX CABLE CONNECTION (FIG. 4):

Fit the connector into the socket on the "blue box" 14846 and make sure that the center wire enters the socket without bending. Tighten the nut and push the weather boot (12697) as far as it will go over the connector. Use the cable ties supplied to tie the coax cable to the boom (10286) and the leg (10291) as shown in FIG. 4.

FITTING COMPLETE ANTENNA TO ROOF:

1. With the antenna in the raised position, caulk the underside of the mounting plate (12660) then lower the unit into the hole in the roof so that the drive shaft (12927)enters the ceiling plate (10302) hole. See FIG. 1
and Step 4 in "INSTALLATION" for correct positioning of mounting plate (12660).

2. Drill and fit either "pop" rivets or screws (1/8" drill for rivets and 5/32" for screws). Caulking should be squeezed out equally around the perimeter of the mounting plate. Caulk the screw or pop rivet heads and also the cable entry area- make sure that the cable is positioned correctly and note the minimum cable length shown in FIG. 4 Fit crank handle (10739) to drive shaft (12927).

CABLE ENTRY USING PARTS 10579 & 10580:

1. Approximately 36" of cable should be "free" between the bottom cable tie
position (A, FIG. 4) and (a) the cable entry on the mounting plate (12660) or (b) the clamp or "gland" (10579/10580 Fig. 5), whichever method is used.

2. Fig. 5A shows 10579/10580 being used as a cable entry gland. Fig. 5B shows 10579/105W being used as a cable clamp. Their position on the roof should be not less than 8" from the center of mounting plate (12660). Use plenty of caulking.

TESTING:
1 . Raise antenna by pulling crank down and turning it counter-clockwise (looking up to ceiling).

2. When antenna is fully raised TURN CRANK IN OPPOSITE DIRECTION AT LEAST HALF A TURN BEFORE PUSHING IT UP WHILE STILL TURNING SLIGHTLY. See Fig. 6 This will engage the

rotate pin.

3. Hold crank as in Fig. 6 and turn it fully COUNTER-CLOCKWISE to the stop. Then return it CLOCKWISE to the stop. If the installation has been correct, the antenna will now be "in-line" and ready for lowering.

4. Pull crank down to disengage rotate pin, then turn crank CLOCKWISE (looking up at ceiling) until resistance is felt and you hear the antenna contact the travel support (111699).

NOTE:
If the antenna has been correctly installed, force Is not required. This completes the mechanical installation & testing- proceed as follows for Installation of booster amplifier.

INSTALLATION OF BOOSTER AMPLIFIER:
1. Remove any existing wall jack and modify hole size it necessary.

2. Remove protective box from amplifier and feed the antenna co-ax cable and connector through the correct hole as shown in FIG. 7.

3. Do the same with the cable which goes to the extra wall jack (if installed).

4. Important note: if the wall thickness of your vehicle is less than 1 1/2" use the optional wall extension bracket (supplied) and lead all cables and wire through it also. Make sure you screw the cables onto the correct sockets on the amplifier exactly as shown.

5. It is essential that the 12 volt DC supply comes from the battery side of the converter. To confirm this, disconnect the RV from any outside 110 volt AC supply.

6. Wire the black lead of the amplifier to 12 volts DC positive (+) and the white lead to 12 volts DC negative (-) using the wire nuts supplied. Incorrect polarity will damage the unit and void the warranty.

7. Screw the box to the wall and replace amplifier panel.

8. Use the 4' coax cable supplied with the VHF/UHF splitter (part no. 15158) to connect the amplifier to your TV set. The splitter may have to be used depending on the input connections on your particular TV. A range of splatters is available - send for our catalog.

9. Using the amplifier- with the switch "up" the red lamp will light and the amplifier will be on. It should be noted that if you are very close to a TV station there may be some "distort-ion" of the picture- better results may be obtained with the amplifier switched off. Switch off when not in use.