

Shakespeare

ELECTRONICS AND FIBERGLASS DIVISION

# STYLE 2020 OMNIDIRECTIONAL MARINE TV/FM ANTENNA

**Congratulations!** You have just demonstrated your discriminating taste by purchasing the Shakespeare Style 2020, omnidirectional TV/FM antenna.

By carefully following the installation and connection instructions, you will receive years of superior performance from your new Shakespeare antenna.

**Special Note:** Please familiarize yourself with the assembly and installation of the 2020 by reading all the way through the instructions before you begin actual installation.

## Parts List:

- (1) 2020 TV Antenna
- (1) 30 ft. RG-59 Coax Cable
- (1) Connector Boot
- (1) 75 to 300 ohm VHF/UHF Band Separator
- (4) Screw-on Type "F" Connectors
- (1) 12 Volt DC/117 Volt AC Power Supply
- (2) No. 6 - 1/2" Screws
- (1) Power Supply Mounting Bracket

## ANTENNA MOUNTING INSTRUCTIONS

### Step 1

Mount antenna on a marine extension mast, standard 1" - 14 thread marine antenna mount or mast mounting bracket as illustrated below.

Figure 1

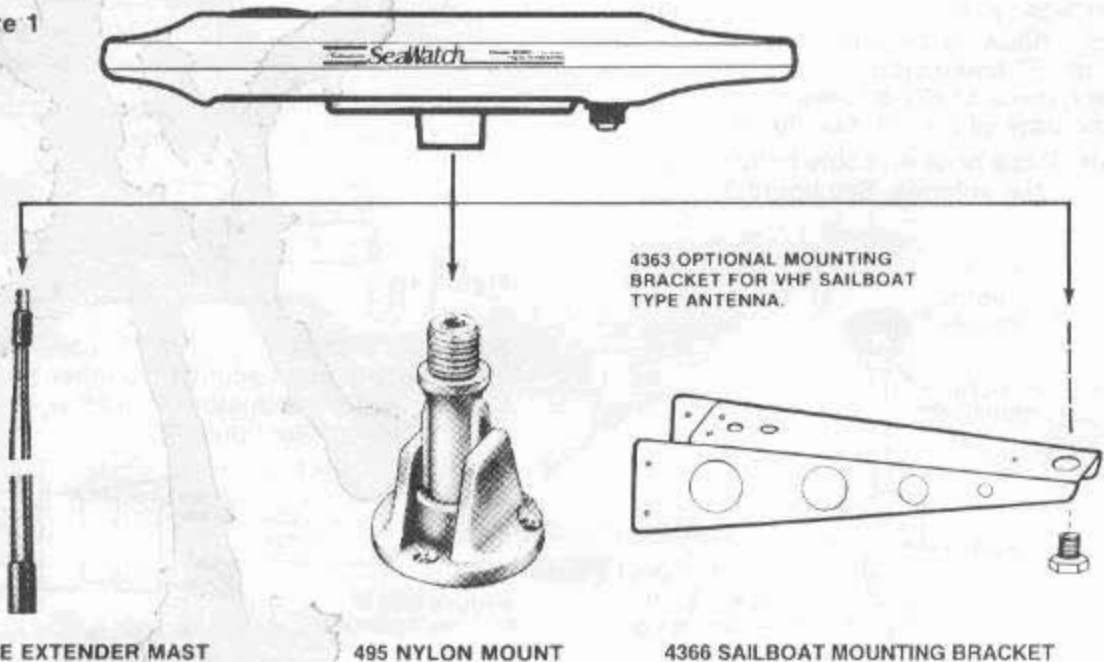
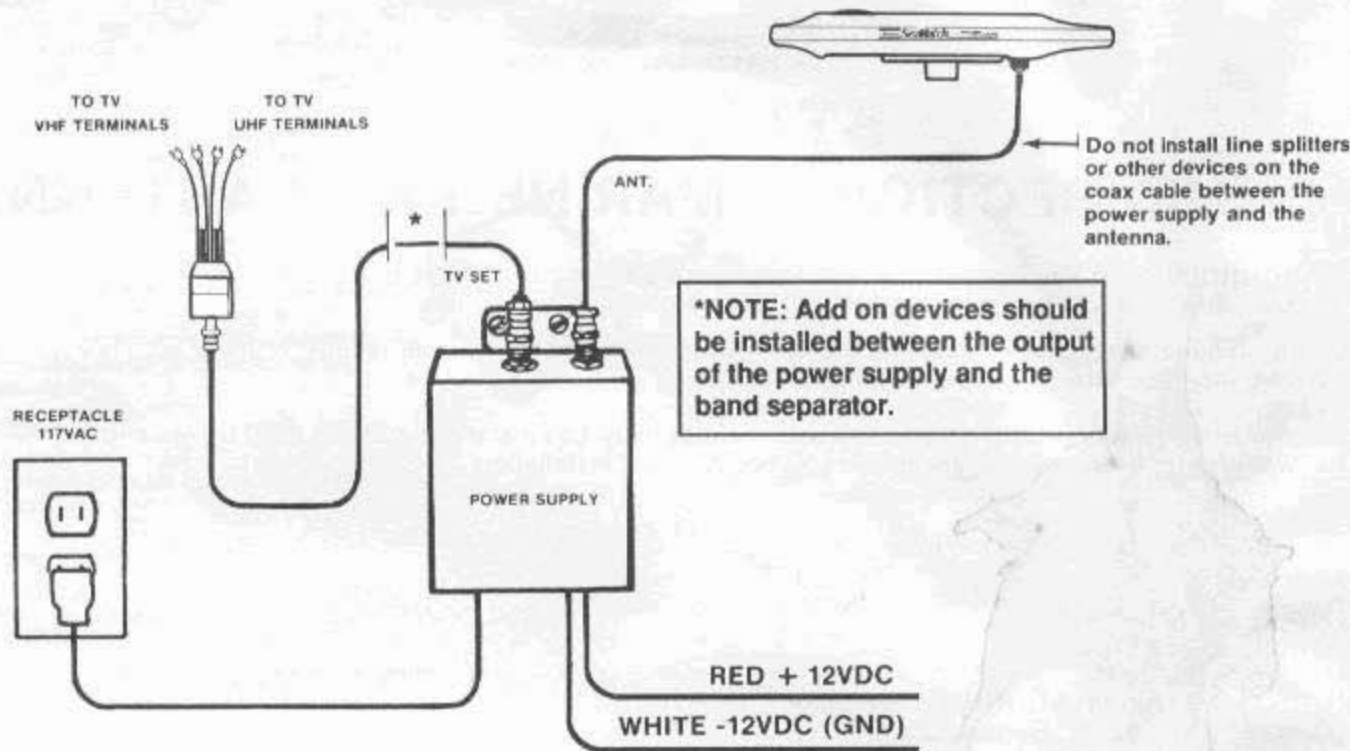


Figure 2



**Step 2**

Using the two No. 6 - 1/2" screws supplied, mount the power supply bracket behind TV set convenient to a 117 volt AC receptacle and/or a 12 volt DC power source. Hang power supply on bracket.

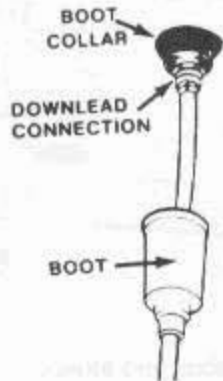


**Step 3**

Route the RG-59 cable from the antenna to this power supply. Allowing enough cable slack for later installation of "F" connectors, cut the cable. Route the remaining piece of RG-59 from the power supply to the back of the TV. See figure 2.

**Special Note:** Place boot on cable before installing F-connector at the antenna. See figure 3.

Figure 3



**Step 4**

To install the type F-connectors, strip the ends of the RG-59 cable as shown in figure 4A. (Note that the ends of the original 30' cable have been factory pre-stripped for your convenience.)

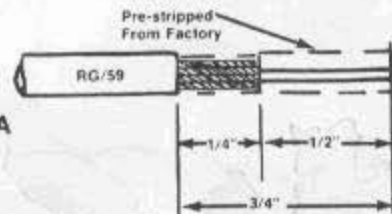


Figure 4A

Push back and twist the braid around the Dielectric until it butts against the cable jacket, Figure 4B.

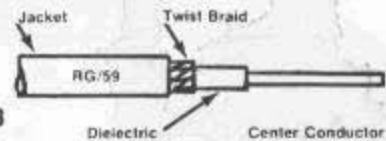


Figure 4B

Screw the F-connector onto the cable jacket until the Dielectric butts against the inner retaining ring. Cut the center conductor off flush with the end of the connector. See figure 4C.

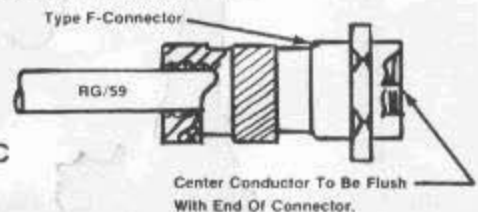


Figure 4C

Repeat this step to install all four type F-connectors

### Step 5

Connect the F-connectors to the antenna, power supply and TV as shown in figure 2. Be sure to fully seat boot over boot collar at the antenna. See figure 3.

**Note:** If your TV does not have a 75 ohm input connector, use the supplied band separator and connect it to the TV as shown in figure 2.

### Step 6

Place the power supply mode selector in the "AC" position. See figure 5. Connect the white power supply wire to the 12 volt negative lead of your DC power source. Connect the red power supply lead to the 12 volt positive lead of your DC power source. Plug the grey lead into a 117 volt AC receptacle. See figure 2.

### Step 7

For 117VAC operation, make sure the power cord is plugged in and move the "Mode Selector" switch to the "AC" position. See figure 5. Red indicator light will be "OFF" during 117VAC operation.

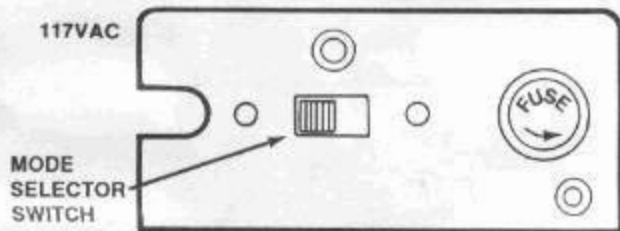


Figure 5

### Step 8

For 12VDC operation, move the "Mode Selector" switch to "DC" position. See figure 6. Red indicator light will come on as a reminder that power is being supplied from 12VDC source.

**Note:** The Mode Selector switch should not be left on the "DC" position for extended periods (one day or longer without use) as a slight battery drain will result.

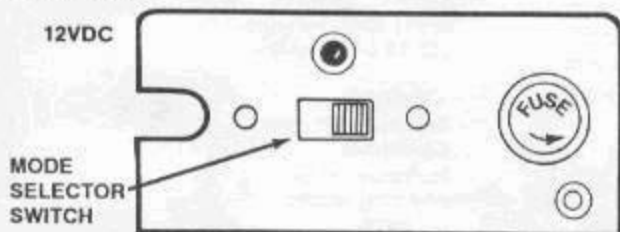


Figure 6

## RECOMMENDATIONS FOR INSTALLING COAX CABLE

**Minimum Bending Radius:** 3" for RG-59. Tighter bends will cause shorts and change impedance.

**Pulling Tension:** 75 pounds maximum. Leave no tension on cable after it is installed.

**Staples or Clamps:** The use of flat staples with coax cable is damaging to the cable. Only round headed staples can be used. Any clamps or securing devices used with coax should grip the cable evenly about the circumference without crushing the cable.

**Exposure to High Heat:** Maximum temperature limit is 89 C (176 F). Keep cable away from heating vents, water heaters, refrigerator heat vents, engine compartments and engine exhaust pipes.

**Crushing:** Coax should not be installed in a manner that would allow it to be crushed and it should not be stuffed or wedged into areas where the cable could be pinched by the flexing of the boat hull/cabin.

**Exposure to Moisture:** Cable jacket will withstand most outdoor environments. However, connections and splices must be sealed against water entry.

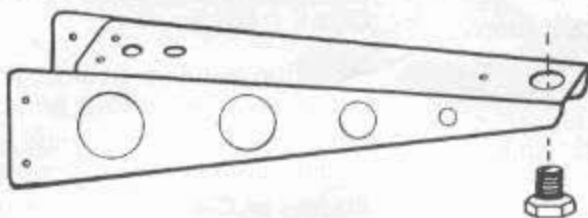
### CLEANING ANTENNA HOUSING

The surface of the antenna is a tough laminated ultraviolet shield. Clean only with mild soap and water. **Use no solvents, alcohol or cleaning fluids.**

# OPTIONAL ACCESSORIES AVAILABLE

**4366**

**Sailboat Mast Mount**  
Aluminum sailboat mast mount for the SeaWatch 2010 & 2020 Marine TV Antennas. Pre-drilled for the 4363 VHF antenna bracket.



**4364**

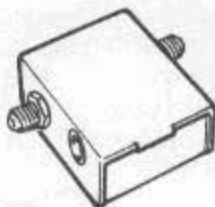
**1' Extension Mast**  
One inch diameter extension mast for light to moderate duty applications. White molded polycarbonate male upper and female lower 1"-14 threads.



**4358**

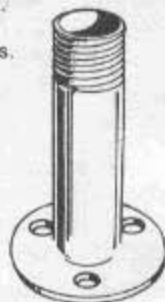
**FM Take-off**

Designed to provide FM radio signals from TV antenna. The FM-4358 may be attached anywhere in the downlead cable and will not interfere with regular TV reception. FM radio signals are available at a standard female Motorola jack on the take-off.



**4365**

**Straight Mount**  
4" high 1"-14 thread stainless steel mount. Perfect for radar arches. May be used with Style 4364 one foot extension mast.



**4330**

30' RG-59 low loss, marine type, coaxial TV cable.



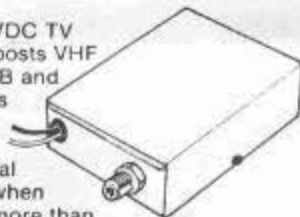
**4360-B**

50' RG-59 low loss, marine type, coaxial TV cable.

**DA-8050**

**VHF/UHF Signal Amplifier**

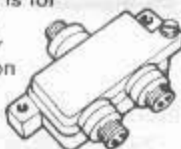
75 ohm, 12VDC TV amplifier boosts VHF signals 16dB and UHF signals 12dB. Designed for strong signal areas and when supplying more than two TV's from one antenna source.



**TV 1030**

**2-Way Signal Splitter**

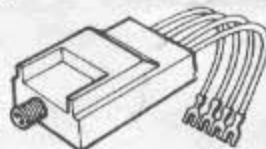
This marine grade 2-way splitter is for coupling and dividing TV or VCR signals on a 75 ohm coaxial cable. The cast metal housing has connection for grounding. All connections are "F" type suitable for RG-59.



**TV 1750**

**75/300/300 ohm VHF/UHF Band Separator**

Connects single 75 ohm downlead to separate 300 ohm VHF and UHF antenna terminals of the TV set.



**TV 3019**

**75/75/300 ohm VHF/UHF/FM Band Separator**

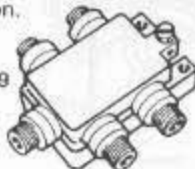
Connects 75 ohm coaxial downlead to separate 75 ohm VHF and 300 ohm UHF antenna terminals of TV set. 300 ohm no-strip screw terminals are provided for FM receiver. (Needed when using most VCR)



**TV 1035**

**4-Way Signal Splitter**

For coupling and dividing signals on 75 ohm coaxial cable 4 ways. Cast metal housing with ground connection. All connections are "F" type suitable for RG-59 cable. (Recommend DA 8050 when supplying more than 2 TV's)



**FS 8101**

**"F" type Barrel Connector**

Use with two TV 1060 "F" connectors to form a secure RG-59 cable splice.



**TV 1060**

**Screw-on "F" type Connector**

No soldering or crimping required. 2 per pack.



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