

OverView A.P.T Converter to AEA AVT Interface connections:

1. To connect the OverView converter to the AVT system use the wiring diagrams in the OverView manual, make all connections as detailed there with the exception of the two clock in/out wires, and the OverView audio output cable.
2. The two clock in/out wires now have a three pin header plug attached which simply plugs into the matching three pin clock control header on the AVT P.C.B (labeled I.O.G.). To accomplish this remove AVT cover, locate header connector, remove small shorting block on pins I and O, and install the OverView header plug as indicated in the diagram. Best routing of this cable outside of the AVT enclosure will be determined by the enclosure used for the OverView P.C.B. * NOTE: If the tape record and playback functions are not desired then the clock control header wiring is not necessary *.
3. To connect the OverView audio output cable, an RCA phono type plug must be attached to the coax (not supplied). Once this plug is attached simply connect to any one of the five audio inputs on the AEA AVT interface as detailed in the diagram.

Operation:

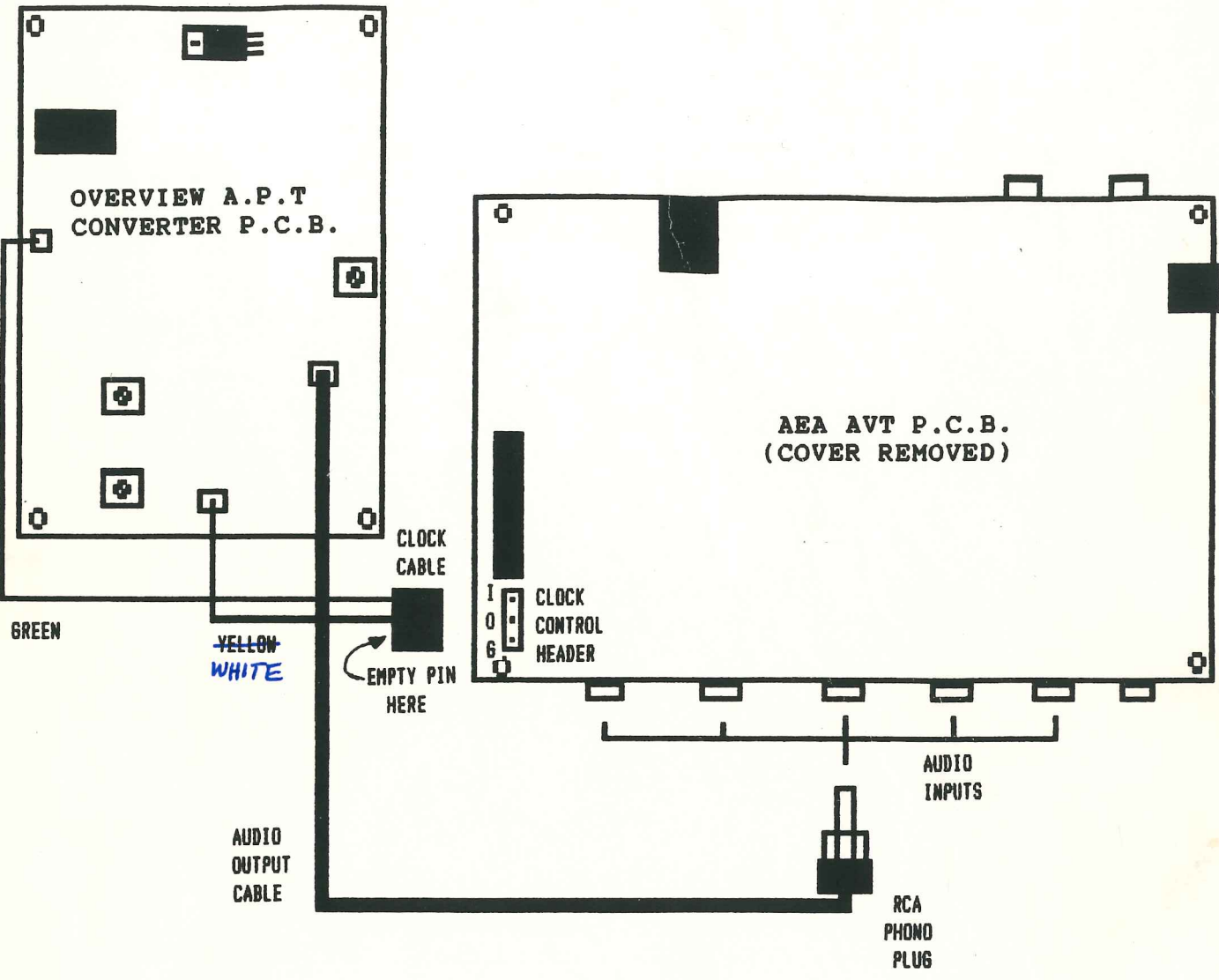
Once the OverView Converter is connected according to the wiring diagrams in the manual and the update sheet proceed as follows:

1. Power up the computer and both AVT interface and OverView Converter.
2. Boot up AVT software as usual.
3. Open the I/O Routing Control window in the AVT control panel and select the input channel that the OverView Converter is connected to.
4. Make sure source of AM FAX (receiver output or tape deck) is connected to the OverView Converter audio input.
5. You are now ready to display AM FAX as outlined in the OverView A.P.T Converter manual.

Additional Notes:

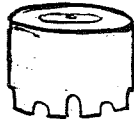
1. Make sure that the miniature clock control toggle switch is in the closed (ON) position only during tape playback, otherwise the imaged displayed will be skewed and out of sync.
2. The Version 3.0 AVT software shipped with the AEA AVT system now supports the 240 LPM of the GOES NOAA weather satellites.
3. As stated in the AEA manual AM FAX is located in several places on the TVRO satellites. It appears that different modes of modulation are used, some are sideband and some are FM, you will have to experiment to determine which is which. Also some of the images are sent as negatives. These can be converted to positive images one of two ways: Before reception: create a reverse FAX curve using the Generate Curve function in the pull-down FAX menu. After reception: use the "N" gadget (N for negative) in the FAX window on the AVT control panel. If the image is transmitted as a negative, display may have to be started manually since auto start and phasing may not operate correctly.
4. AM FAX wire photos are also available on ~~TVRO satellite ANIK 1~~ transponder #8 @ 6.278 Mhz. MOVED ?

OverView A.P.T. Converter to AEA AVT
Connect Diagram



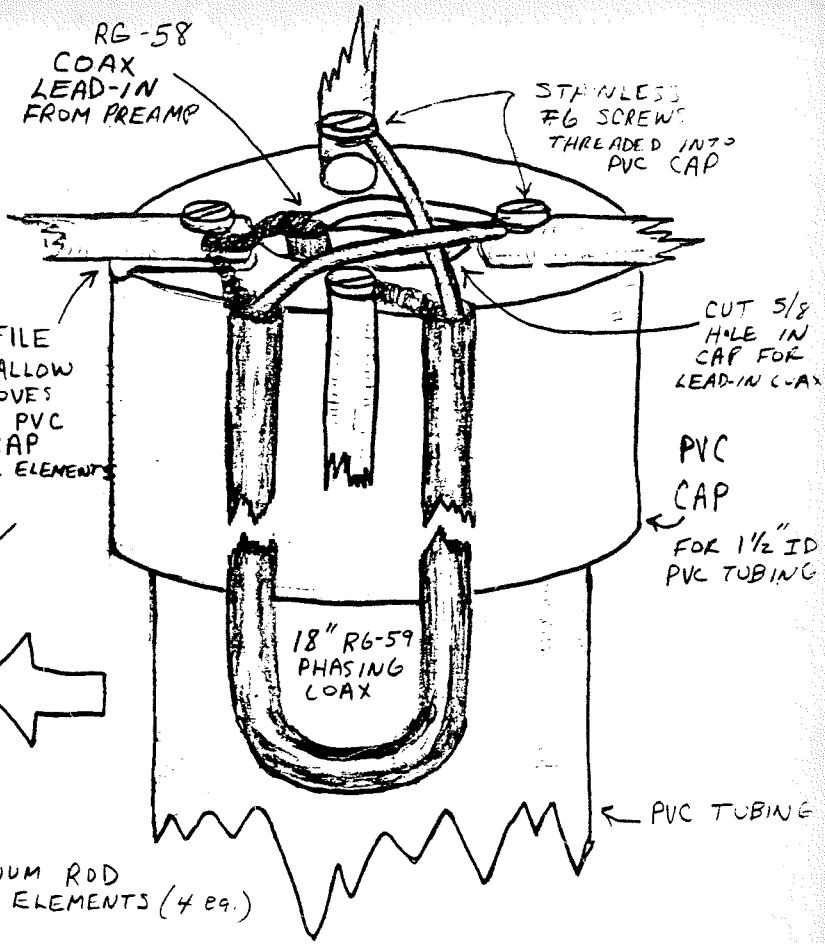
Refer to OverView manual to complete wiring.

AEROSOL SPRAY CAN CAP, WITH NOTCHES CUT, IS PLACED ON TOP TO SEAL FROM MOISTURE.



RG-58 COAX LEAD-IN FROM PREAMP

STAINLESS #6 SCREWS THREADED INTO PVC CAP



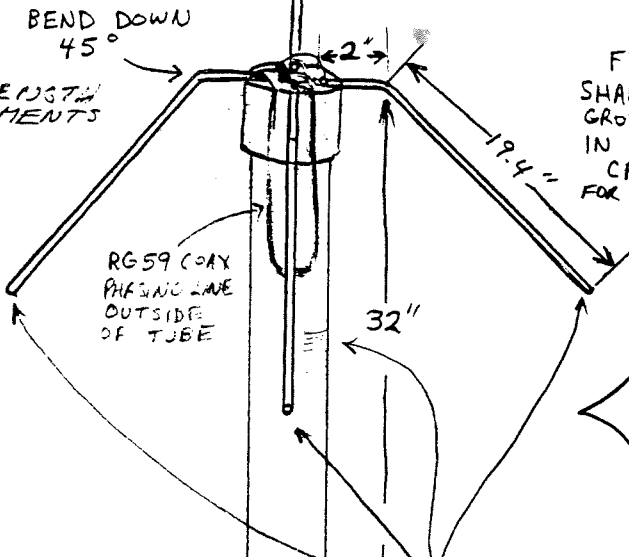
CUT 5/8 HOLE IN CAP FOR LEAD-IN COAX
PVC CAP FOR 1/2" ID PVC TUBING

FILE SHALLOW GROOVES IN PVC CAP FOR ELEMENTS

18" RG-59 PHASING COAX

PVC TUBING

BEND DOWN 45°
TOTAL LENGTH OF ELEMENTS 21.4"



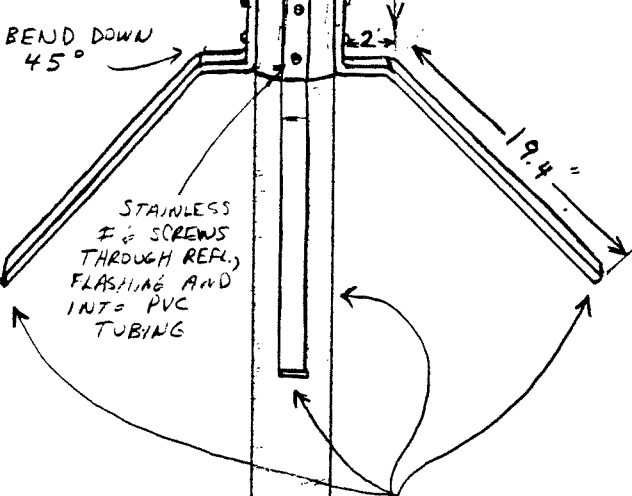
RG-59 COAX PHASING LEAD OUTSIDE OF TUBE

32"

1/4" ALUMINUM ROD DRIVEN ELEMENTS (4 ea.)

2" ALUMINUM FLASHING WRAPPED AROUND TUBING

BEND DOWN 45°



TOTAL LENGTH OF REFLECTORS: 23.4"

STAINLESS #6 SCREWS THROUGH REFL., FLASHING AND INTO PVC TUBING

1/16" X 3/4" BAR STOCK ALUMINUM REFLECTORS (4 ea.)

1 1/2" ID PVC TUBING

LENGTH OF TUBING BELOW REFLECTORS NOT CRITICAL. MOUNT BOTTOM OF TUBE TO SIDE OF ROOF, USING U-BOLTS AND TV ANT BRACKETS. ACTIVE PORTION OF ANT SHOULD BE ABOVE PEAK OF ROOF AND OTHER OBSTACLES TO PREVENT SIGNAL DROPOUT, WHEN SATELLITE IS AT LOW ELEVATIONS.

RG-58 COAX RUN INSIDE OF TUBING

HAMTRONICS LNW-144 or LNW-144 PREAMP

12 VDC

TO 137 MHz VHF FM WIDEBAND RECEIVER (BANDWIDTH OF ~ 37 KHz)

137 MHz POLAR ORBIT SATELLITE ANTENNA FOR OVERVIEW SYSTEM DESIGNED BY TIM HEFFIELD N4IFP MAR. 1989