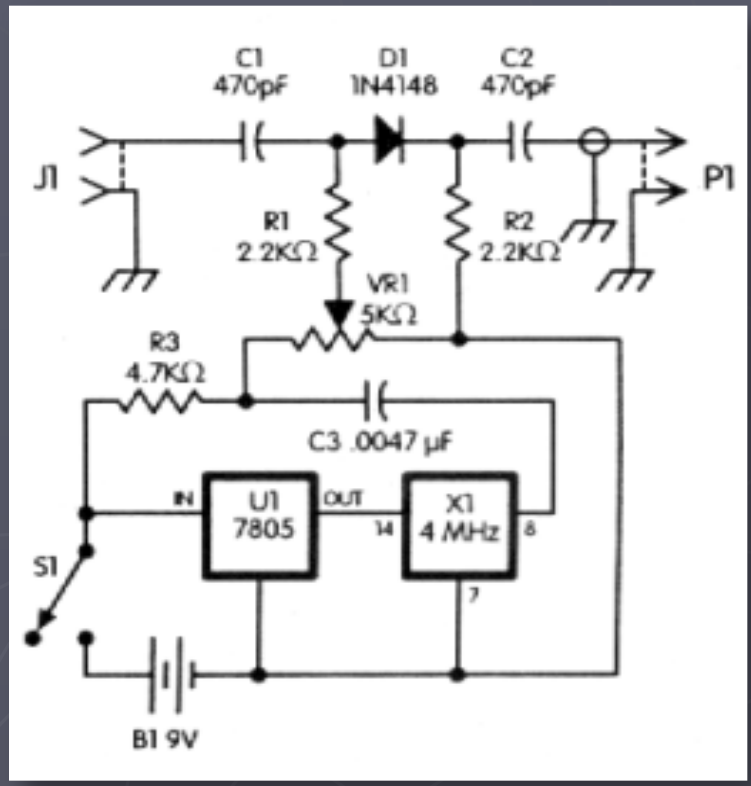
DuPage Amateur Radio Club 2010 Foxhunt Project

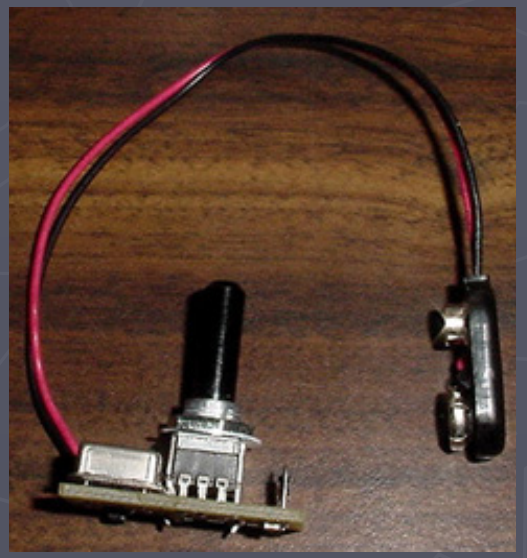
Active Attenuator

COMPONENT	DESCRIPTION
C1, 2	470 pF 0805 SMT CERAMIC CAP
C3	.0047 µF 0805 SMT CERAMIC CAP
R1, 2	2.2K 1/4 WATT, 0805 SMT
R3	4.7K 1/4 WATT, 0805 SMT
D1	1N4148 SIGNAL DIODE
VR1	5K AUDIO TAPER POTENTIOMETER (6MM SHAFT)
U1	7805 REGULATOR (+5V) SMT
X1	4.0MHz OSCILLATOR, 1/2 SIZE
MISC.	BATTERY CONNECTOR
	PC BOARD
	WIRE, COAXIAL CABLE, SOLDER A/R
	PLASTIC ENCLOSURE



Active Attenuator

- The kit contains alls you need to complete the project…



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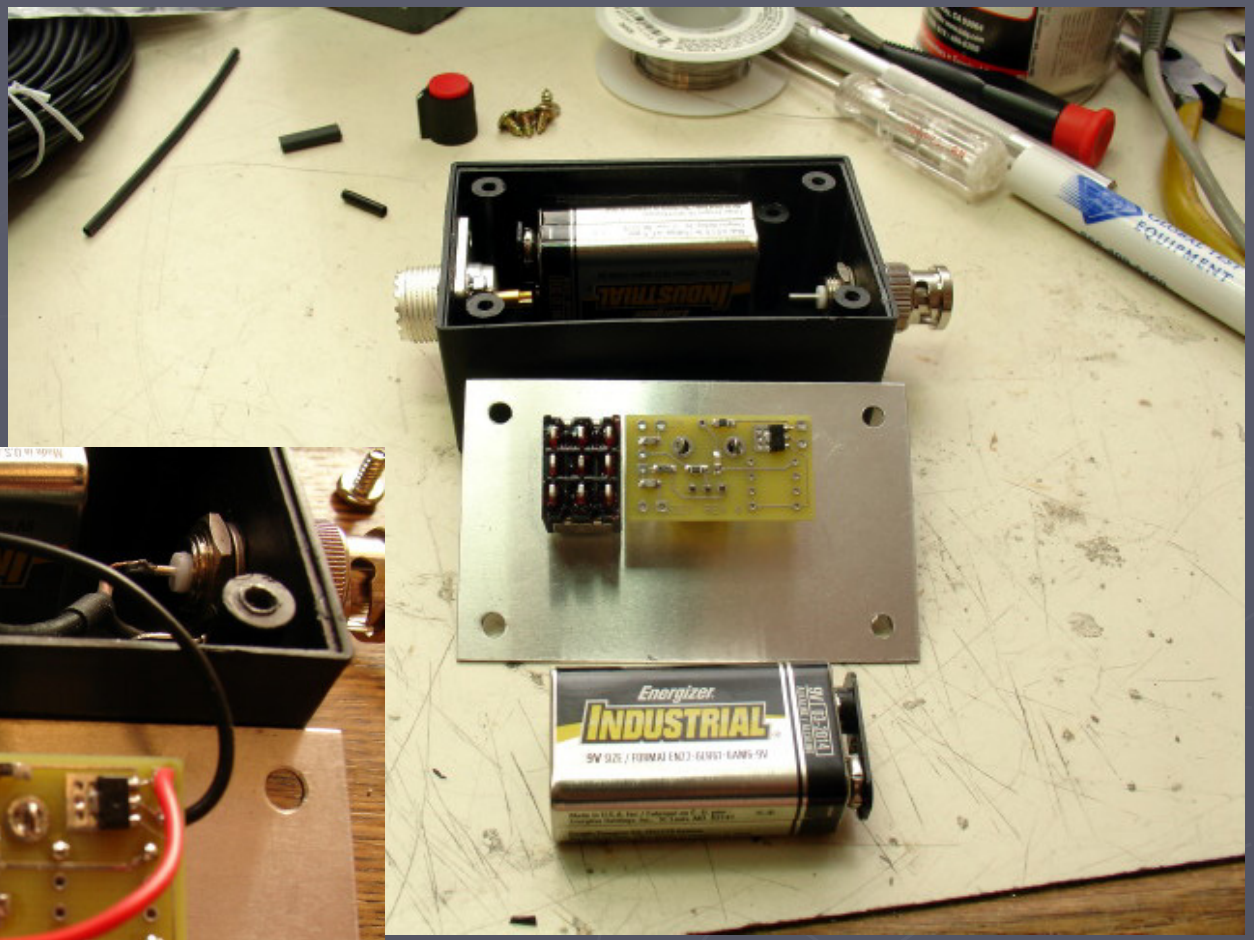
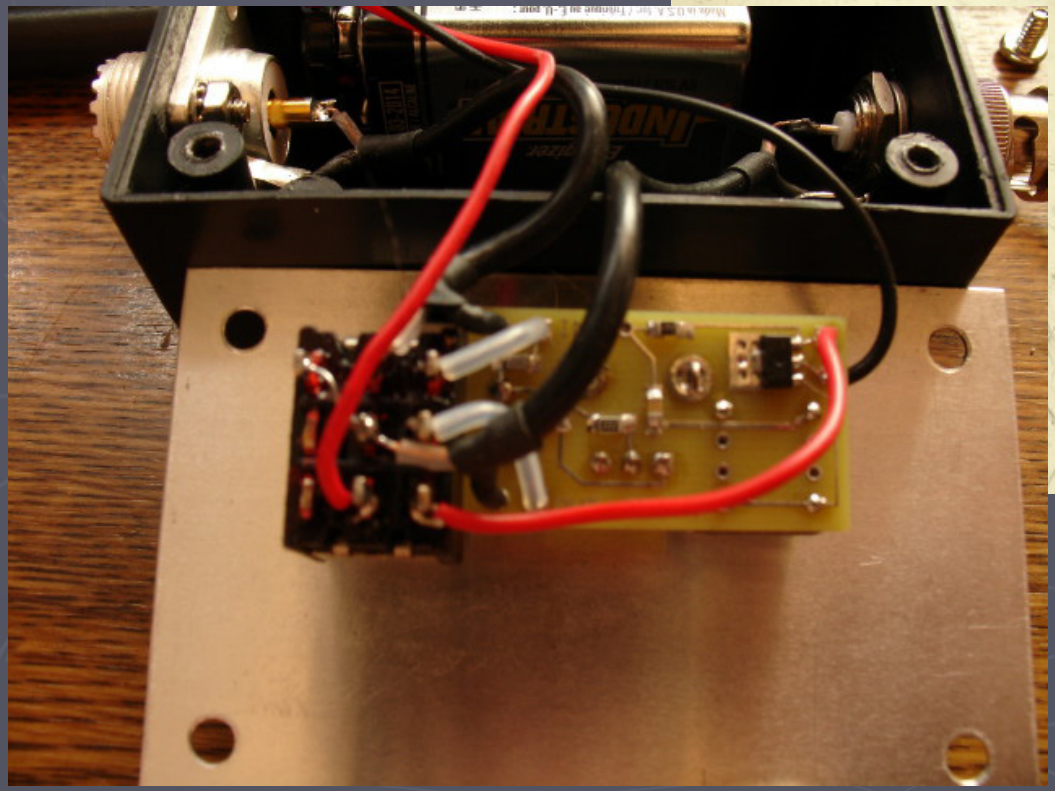
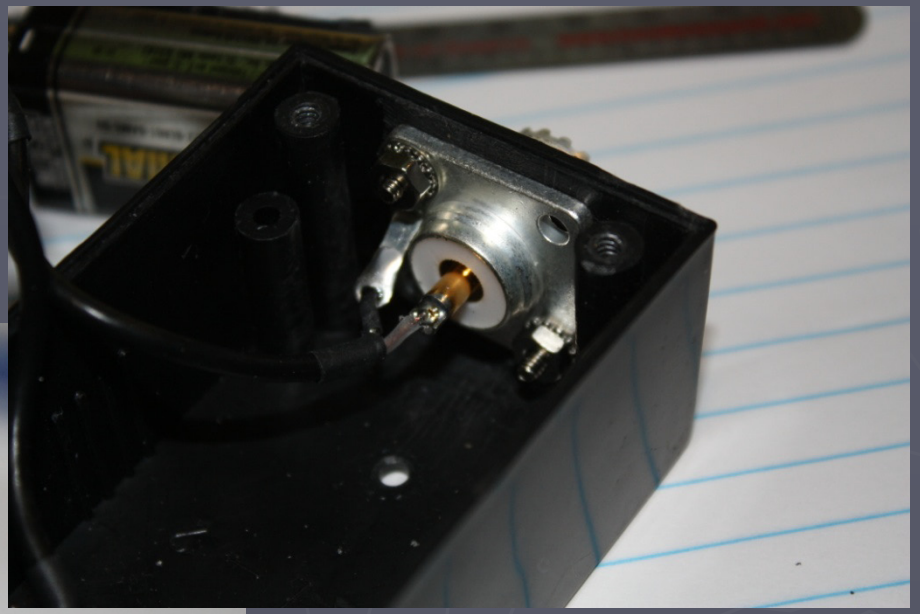
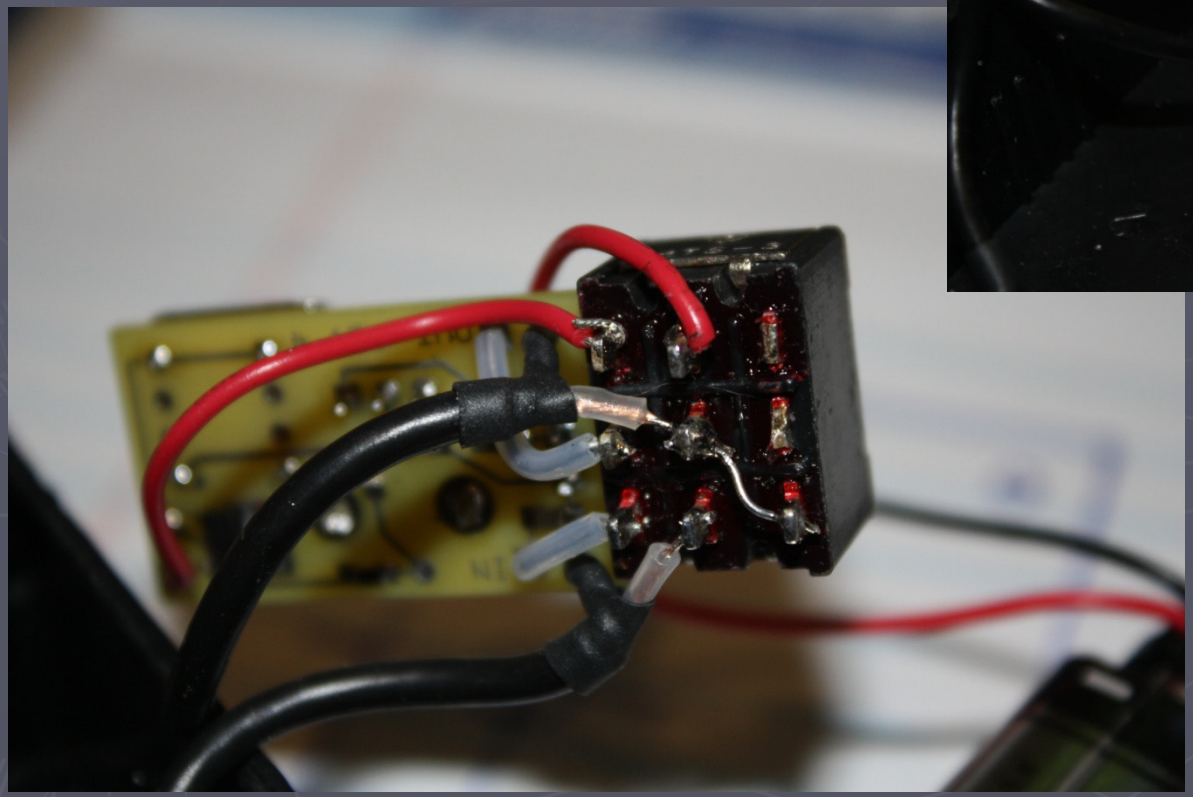




Active Attenuator

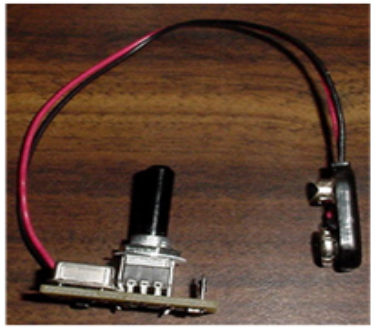




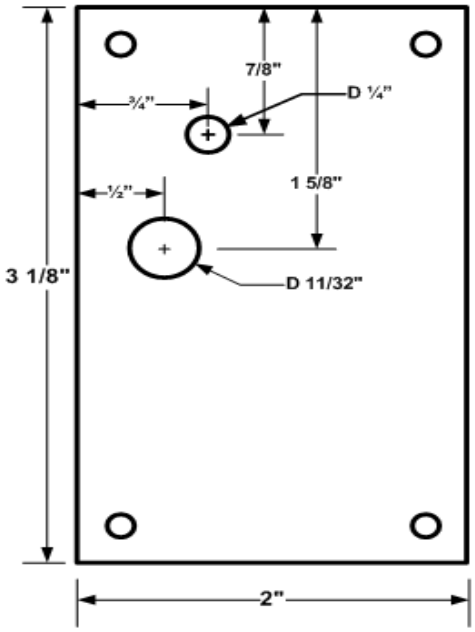
Active Attenuator

PROJECT BOX

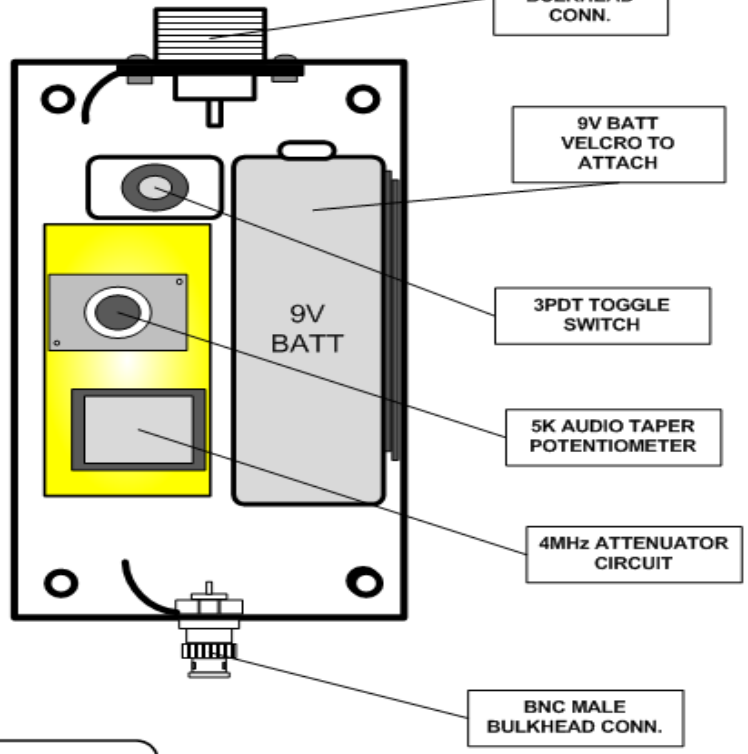
4MHz ATTENUATOR



COVER TOP VIEW



COMPONENT PLACEMENT



MATERIALS LIST

PROJECT BOX
SO-239 BULKHEAD CONN.
BNC BULKHEAD CONN.
9V BATTERY
BATTERY CONNECTOR
3PDT TOGGLE SWITCH
ATTENUATOR CIRCUIT
WIRE A/R
SOLDER

DRAWING IS NOT TO SCALE

NOTE: WIRING NOT SHOWN FOR CLARITY

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DuPAGE AMATEUR RADIO CLUB W9DUP

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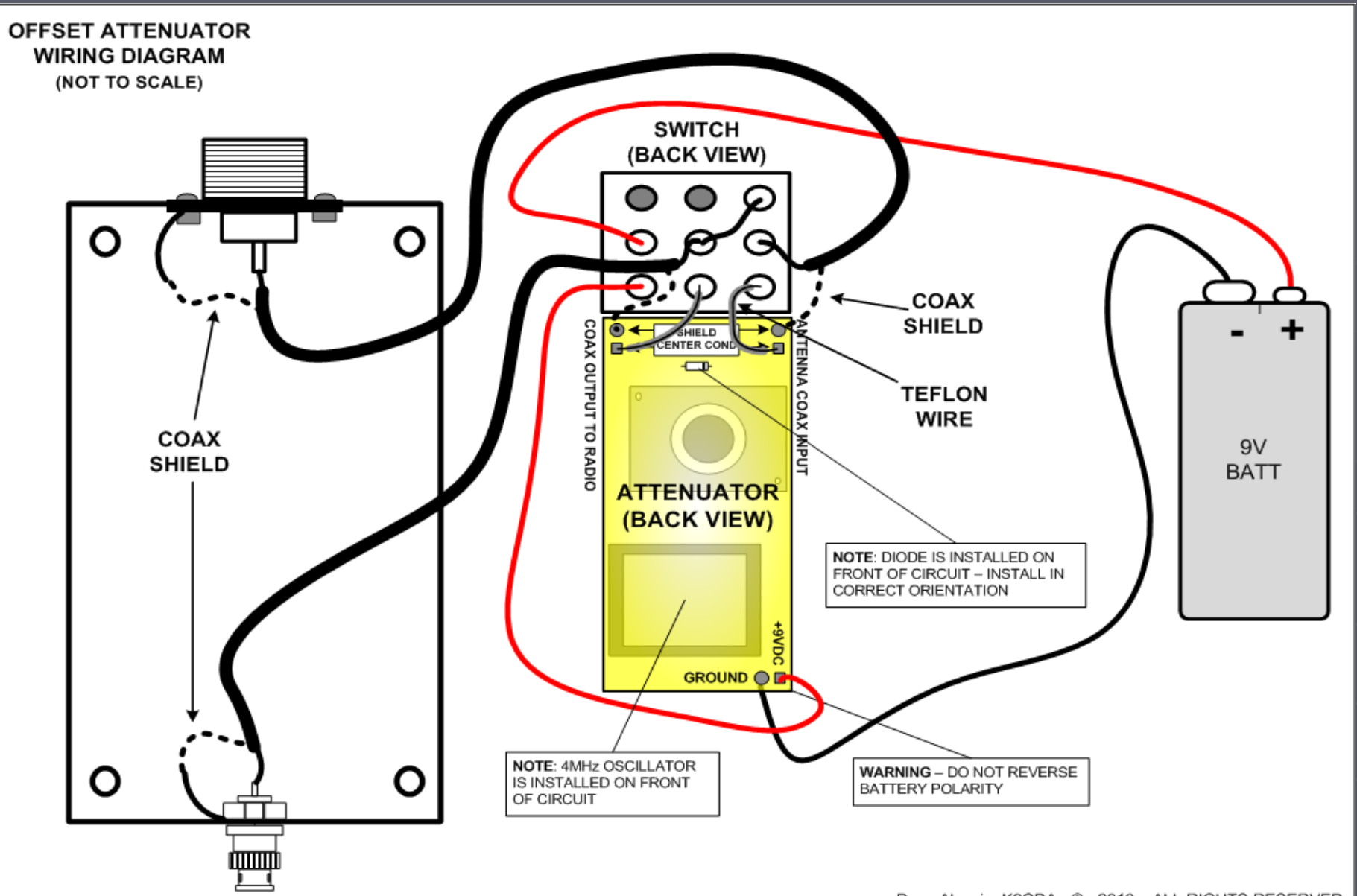

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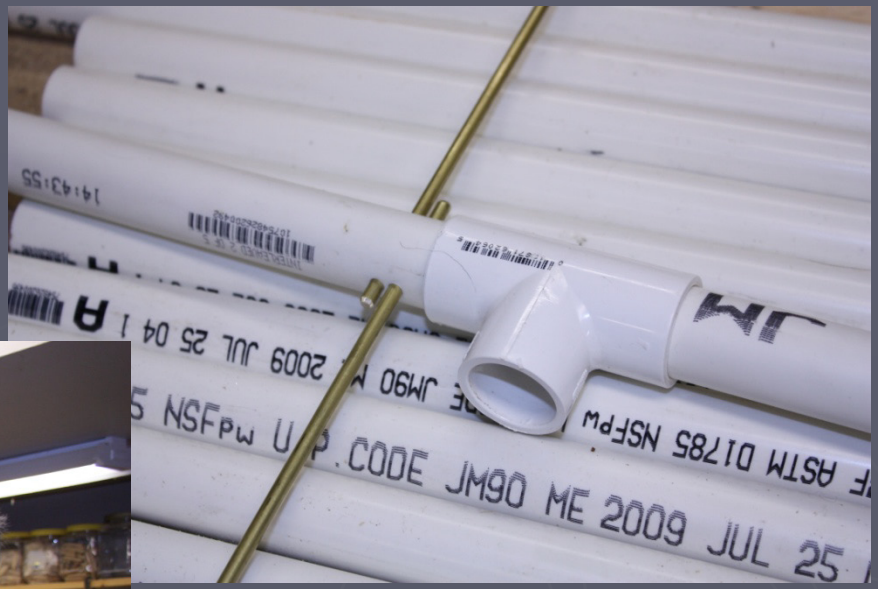
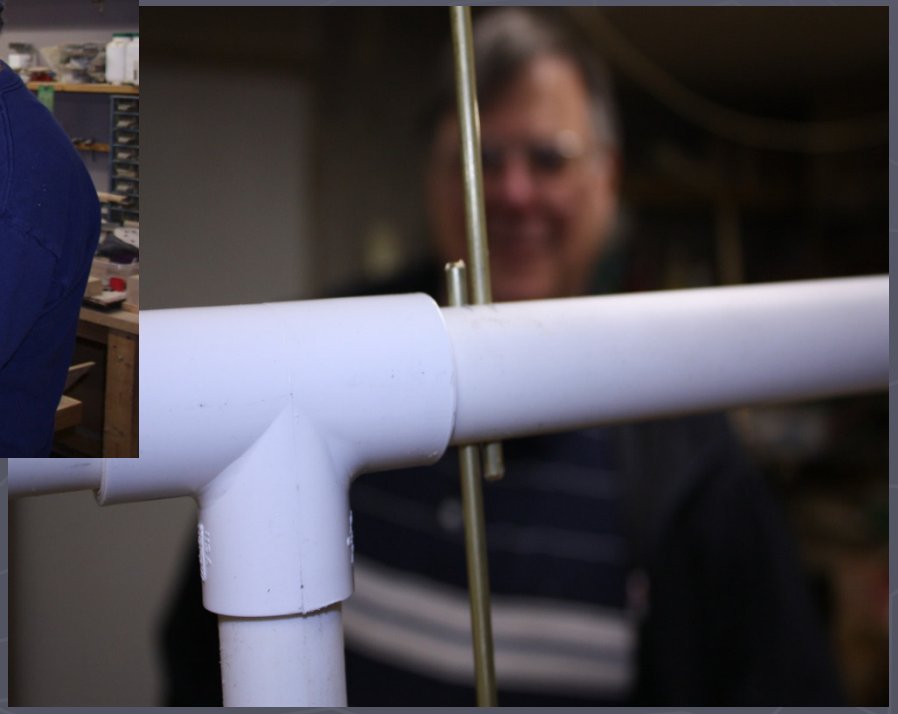
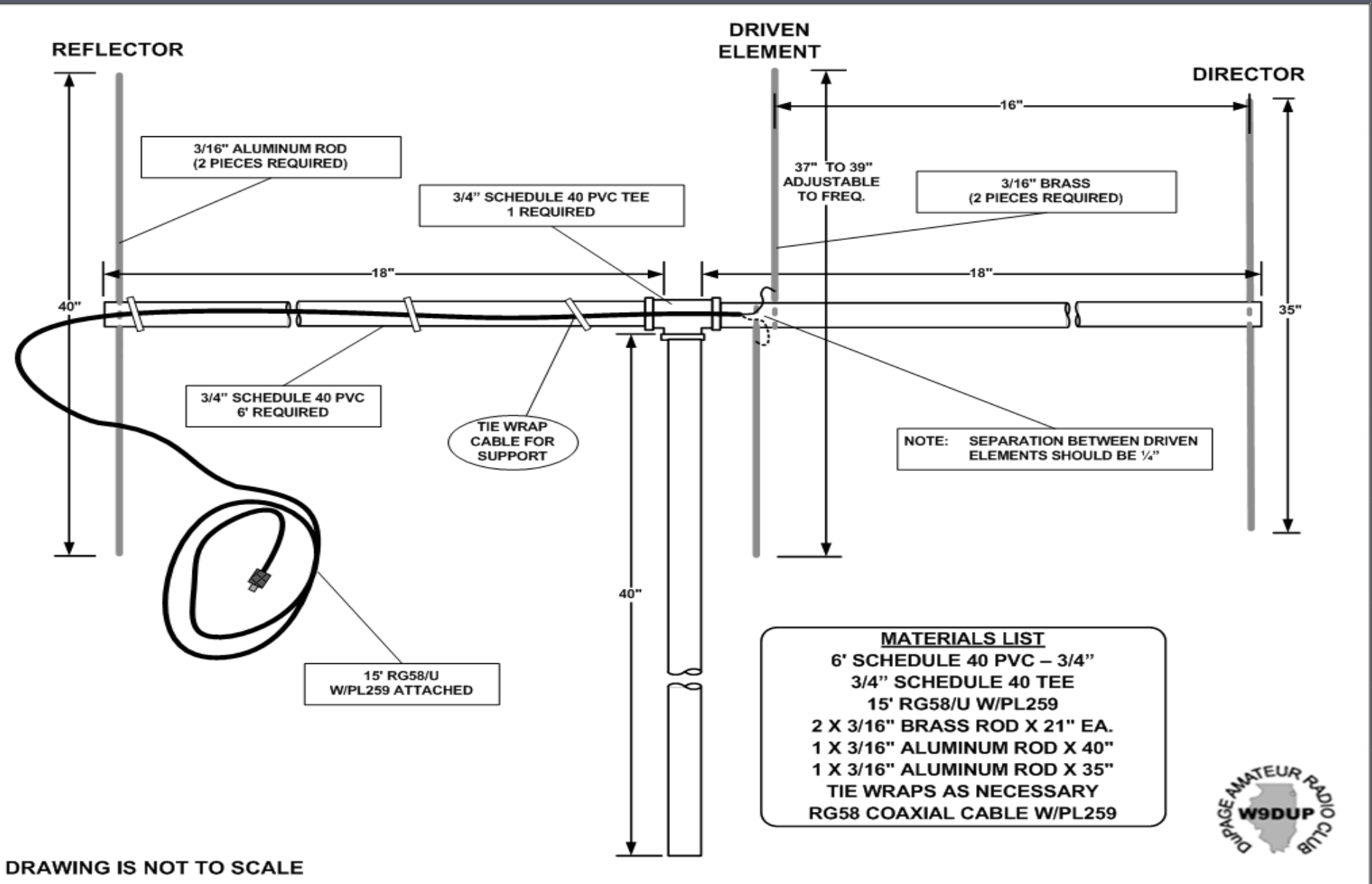
Yagi Antenna

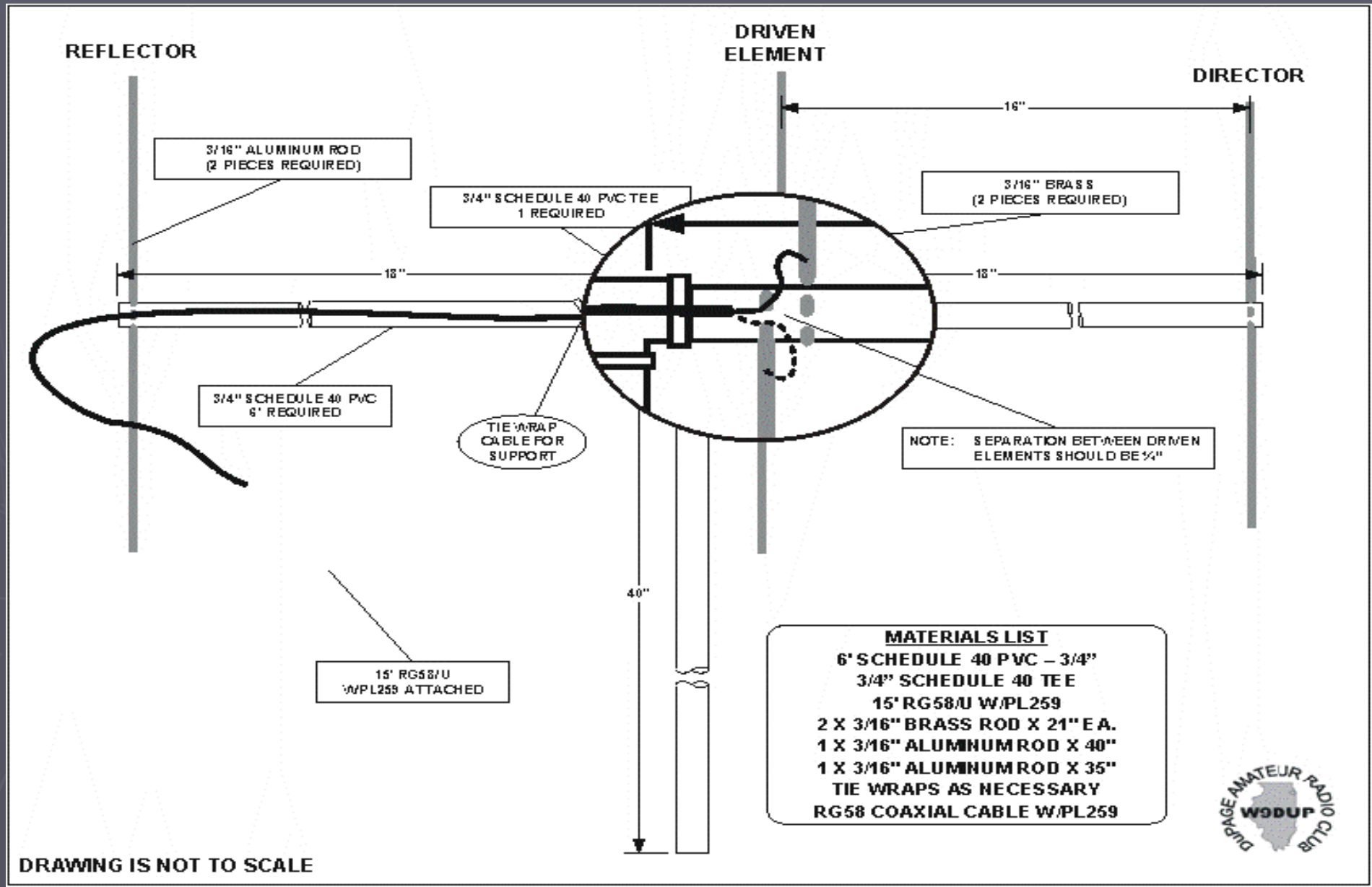




Antenna Design



Antenna Connection View



Test Equipment

- Bird Wattmeter will allow for fine tuning the FWD & REFLECTED power to the antenna. The Bird will require your radio and appropriate connector.
- The MFJ Analyzer will allow you to analyze the actual TX performance and make even finer adjustments of the antenna system. This unit will not require your radio for testing.

MFJ -259B ANTENNA ANALYZER

BIRD MODEL 43 WATTMETER