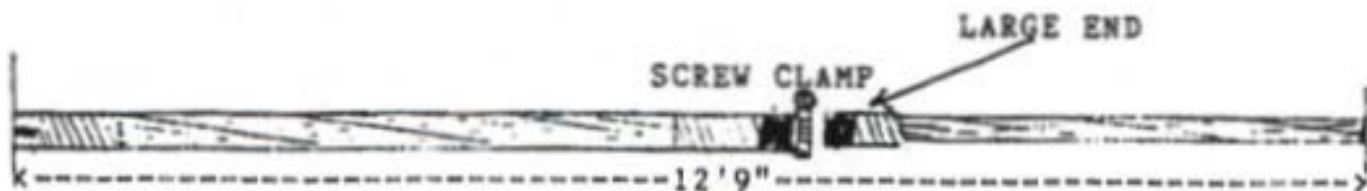


INSTRUCTIONS SHEET FOR 32MCQ & 32MCQ/WB

(1.) ASSEMBLE SPREADERS:

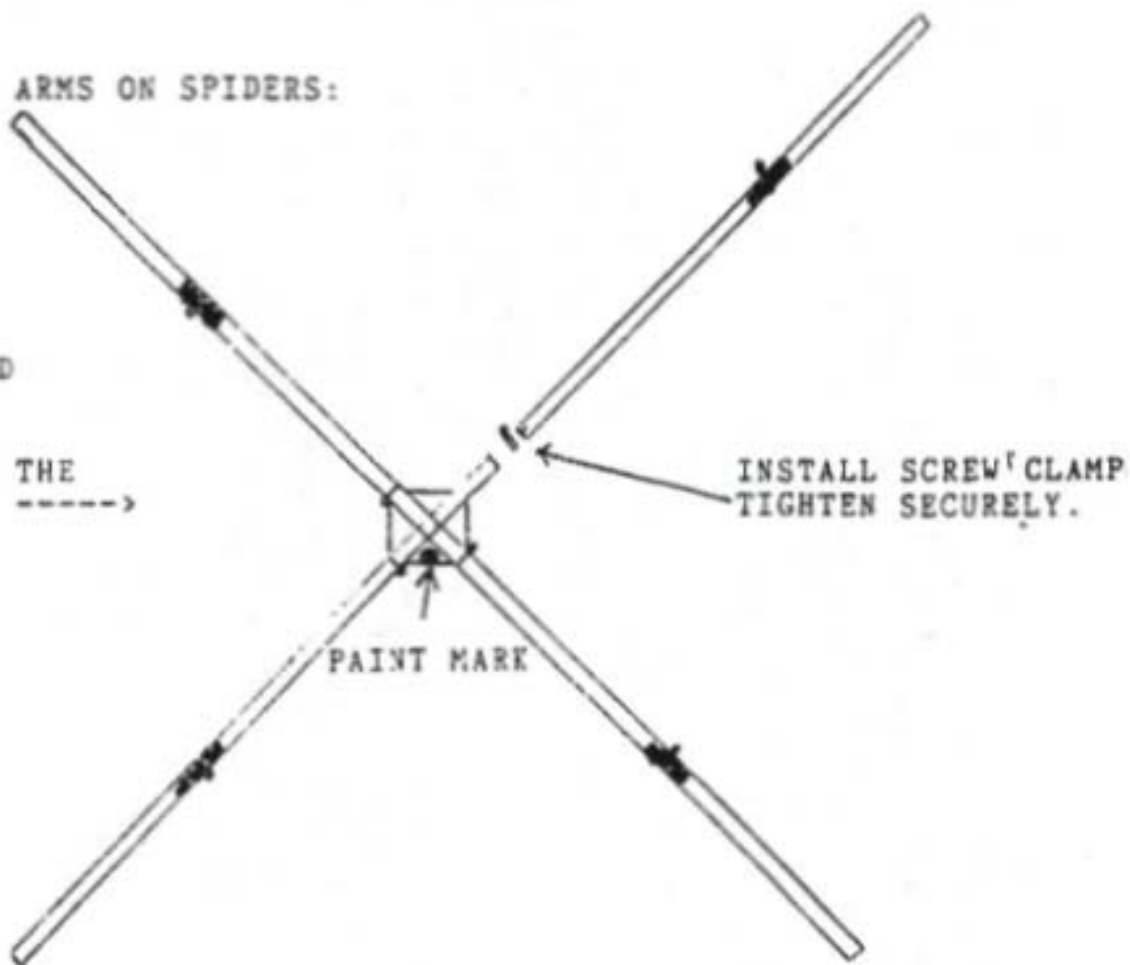
TIGHTEN SCREW CLAMPS SECURELY.



(2.) INSTALL ARMS ON SPIDERS:

LAY ON GROUND

THIS SIDE OF THE SPIDER IS UP ----->



NOTE: PLEASE WEAR GLOVES WHEN WORKING WITH FIBERGLASS.

- 3.) INSTALL WIRE HOLDERS ON ARMS. SEE CHART BELOW FOR WIRE HOLDER POSITIONS.

FOR WIRE HOLDER POSITIONS; MEASURE FROM INSIDE OF SPIDER.

| BAND | REFLECTOR | DRIVEN ELEMENT |
|--------|-----------|----------------|
| 20 MTR | 12'9½" | 12'5" |
| 17 MTR | 10'1" | 9'10½" |
| 15 MTR | 8'6¾" | 8'5½" |
| 12 MTR | 7'3½" | 7'1" |
| 10 MTR | 6'3¾" | 6' |

DO NOT TIGHTEN TIGHT. ONLY SNUG.
 YOU MAY NEED TO MAKE MORE ADJUSTMENTS.
 REMEMBER: MORE ADJUSTMENTS COULD BE NEEDED
 WHEN WIRES ARE INSTALLED.

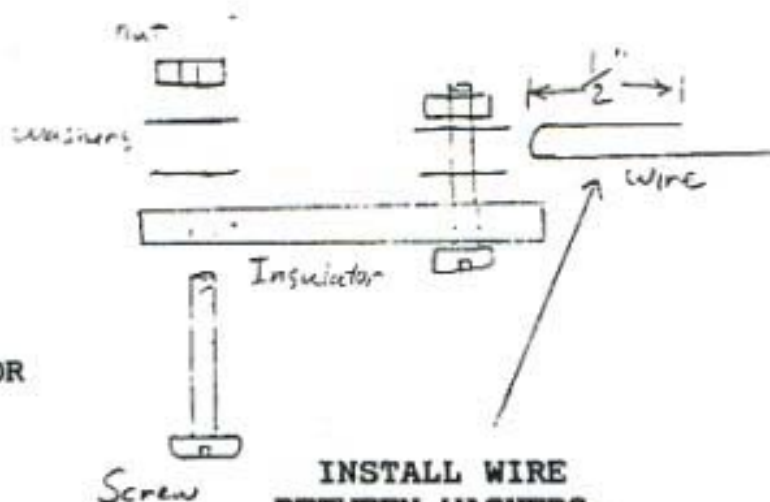
*****NOTE: WHEN WORKING WITH WIRE WEAR EYE PROTECTION.

- 4.) MEASURE, CUT, AND INSTALL ONE WIRE AT A TIME. START WITH 20 MTR. REFLECTOR SEE FIGURE 4A FOR INSULATOR ASSEMBLY AND INSTALLATION. ONCE WIRE IS INSTALLED, ADJUST WIRE HOLDERS SO THAT ELEMENT IS DISTRIBUTED EVENLY OVER THE SPREADERS. WIRE SHOULD BE SNUG BUT NOT TO TIGHT. THERE SHOULD BE A SLIGHT BOW TO THE SPREADERS. (DO NOT OVER TIGHTEN .)

CUT WIRES TO FOLLOWING LENGTHS, INSTALL AS SHOWN ON NEXT PAGE. NOTE: USE 100 FOOT MEASURING TAPE WHEN MEASURING WIRE.

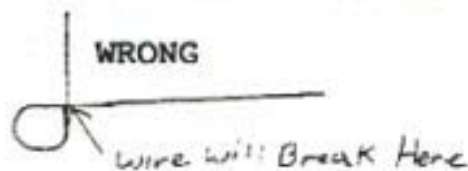
| | |
|--------|-------|
| 20 MTR | 72'6" |
| 17 MTR | 57'2" |
| 15 MTR | 48'8" |
| 12 MTR | 41'5" |
| 10 MTR | 35'8" |

DO NOT CROSS WIRE OVER ITSELF OR IT WILL BREAK



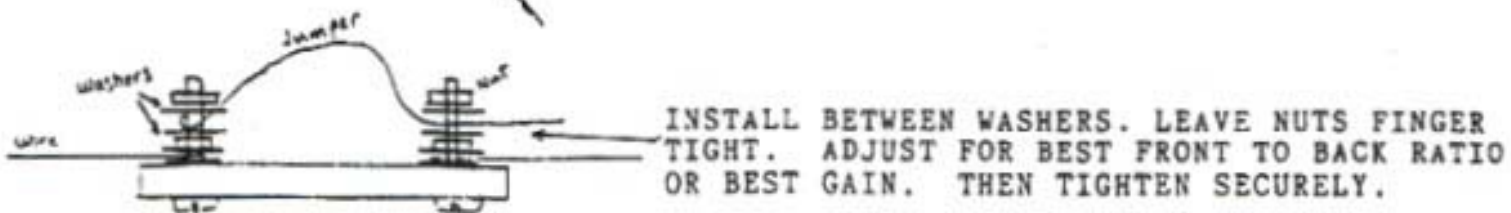
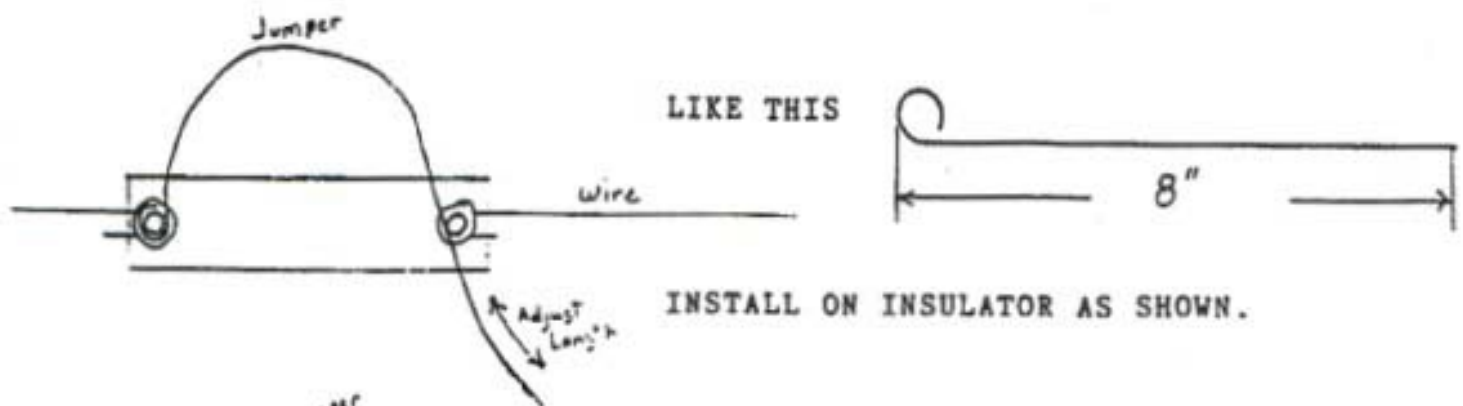
RIGHT

WRONG



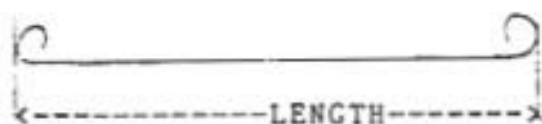
(4B.) ADJUSTABLE REFLECTOR STUB:

CUT 8" OF WIRE. MAKE LOOP ON ONE END.

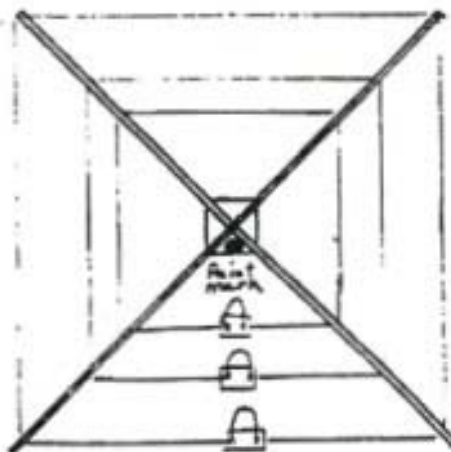


PRESET REFLECTOR MAKE JUMPERS THE FOLLOWING LENGTHS AND INSTALL ON INSULATORS AS IN STEP ABOVE.

| | |
|----------------|----|
| 20, 17, 15 MTR | 6" |
| 12 MTR | 5" |
| 10 MTR | 4" |



(4C.) MAKE SURE THE INSULATORS ARE LOCATED UNDER THE PAINT MARK. AFTER FINAL ASSEMBLY, PAINT MARKS WILL BE AT THE BOTTOM, OR TOWARDS THE GROUND.



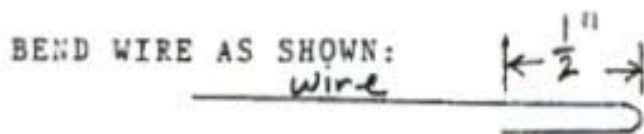
(5.) DRIVEN ELEMENT:

REPEAT STEP 4. IF YOU ARE INSTALLING THE TRANSFORMER START WITH 15 MTR. WIRE FIRST. ADJUST WIRE HOLDERS AFTER ALL WIRES HAVE BEEN INSTALLED.

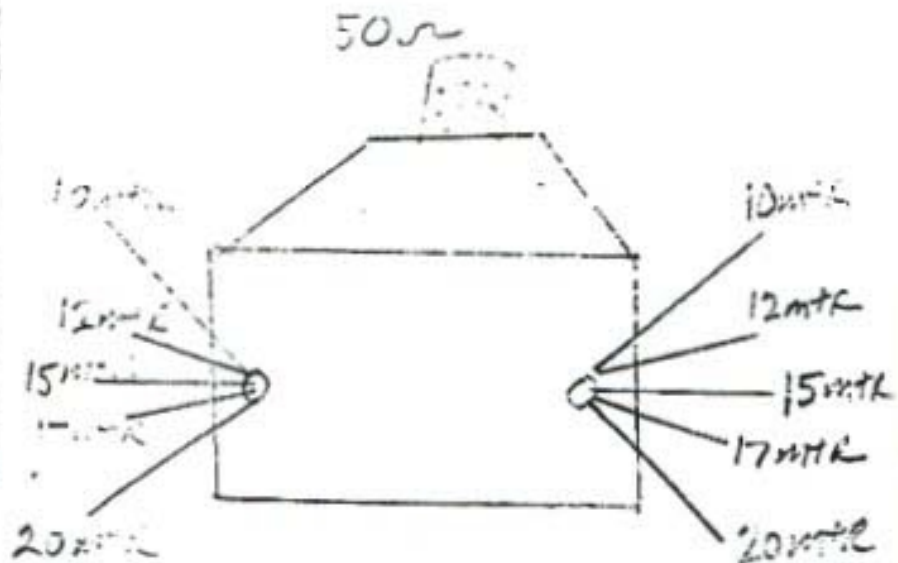
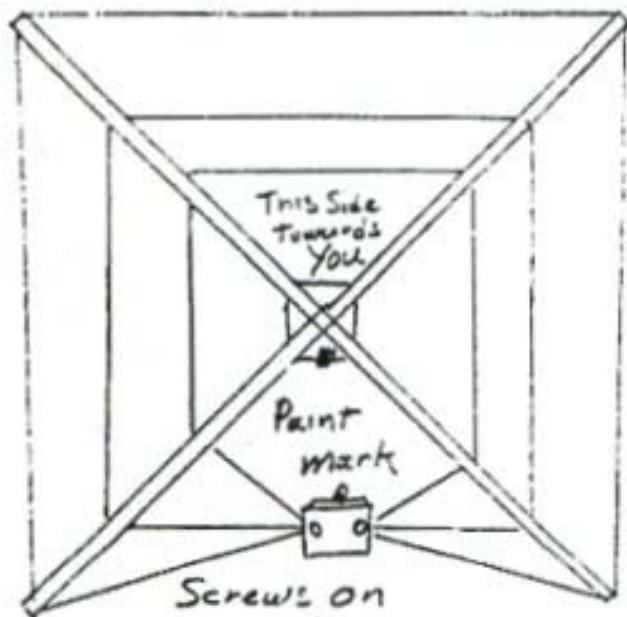
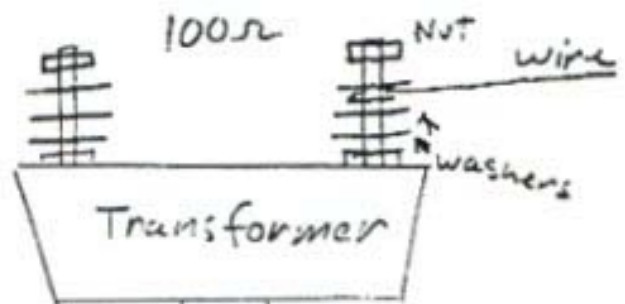
CUT WIRES TO THE FOLLOWING LENGTHS.

| | |
|---------|-------|
| 15 MTR. | 47'8" |
| 20 MTR. | 70'6" |
| 10 MTR. | 35' |
| 17 MTR. | 55'9" |
| 12 MTR. | 40'5" |

INSTALL WIRE BETWEEN WASHERS

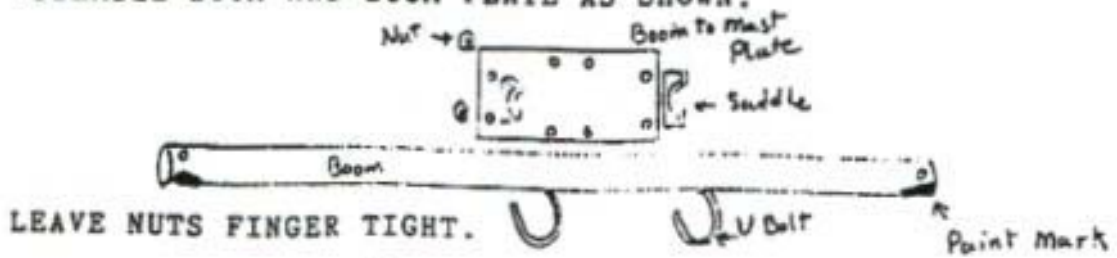


DO NOT BEND WIRE OVER ITSELF.



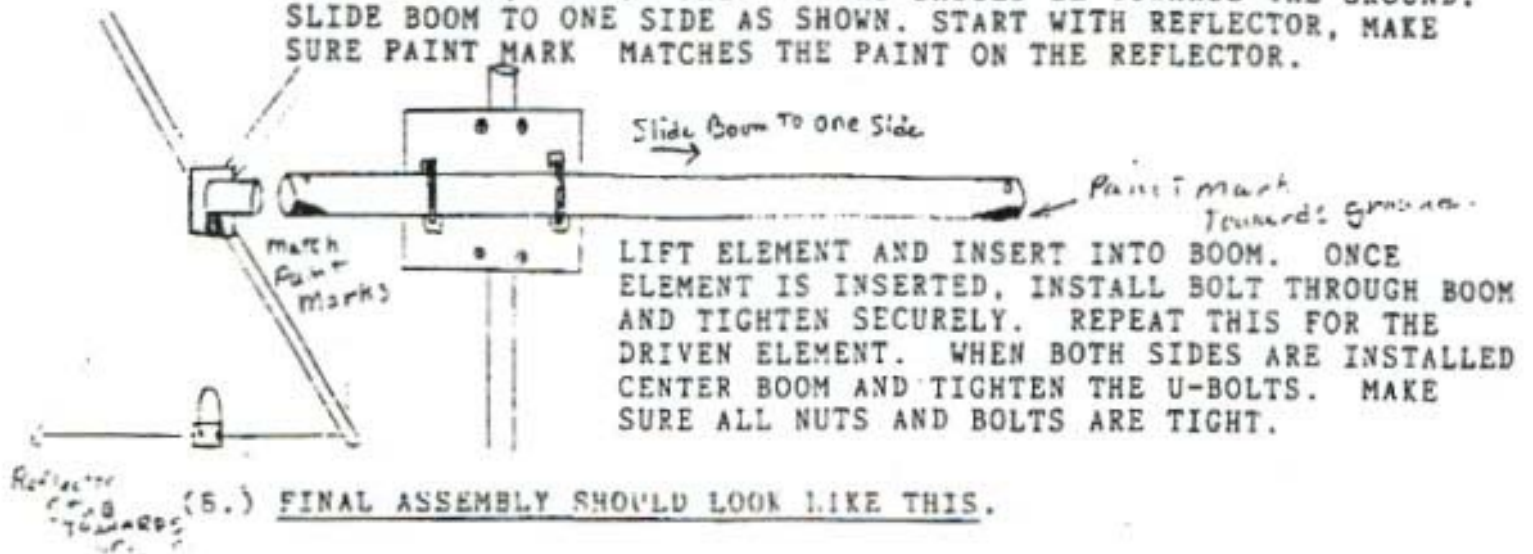
(6.) BOOM ASSEMBLY:

ASSEMBLE BOOM AND BOOM PLATE AS SHOWN.

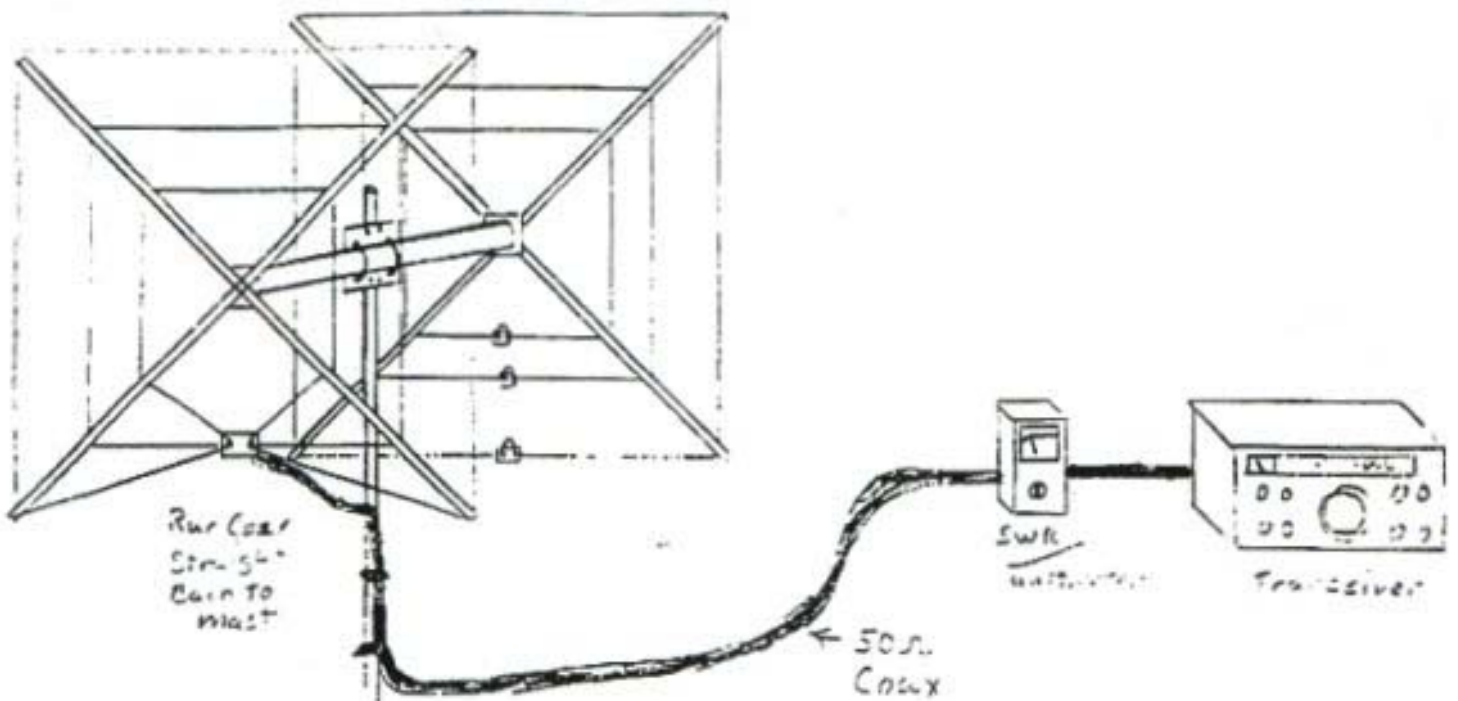


(7.) FINAL ASSEMBLY: DANGER DO NOT INSTALL NEAR POWER LINES.

INSTALL THE BOOM ASSEMBLY ON A MAST OR SOME SUPPORT (TOWER, STEP LADDER, ETC.) PAINT MARKS SHOULD BE TOWARDS THE GROUND. SLIDE BOOM TO ONE SIDE AS SHOWN. START WITH REFLECTOR, MAKE SURE PAINT MARK MATCHES THE PAINT ON THE REFLECTOR.



(8.) FINAL ASSEMBLY SHOULD LOOK LIKE THIS.



IMPORTANT:

TUNERS, SWITCH BOXES, FILTERS, LINEAR AMPLIFIERS, WILL EFFECT SWR READINGS. YOU SHOULD HAVE NOTHING BUT COAX BETWEEN THE SWR/WATT METER AND THE ANTENNA. DO NOT USE TUNER. IF LINEAR AMP. IS USED, LOCATE BETWEEN RIG AND SWR METER. IF ANYTHING OTHER THAN THE ABOVE CIRCUIT IS USED, YOU WILL BE RESPONSIBLE FOR ANY SWR PROBLEMS. LIGHTNING BOLT ANTENNAS IS NOT RESPONSIBLE FOR ACCIDENTS, TVI, RFI, APPEARANCE OR INSTALLATION COMPLAINTS. !!!!!DANGER!!!!!! DO NOT INSTALL NEAR POWER LINES.

(724)
IF YOU HAVE ANY QUESTIONS CALL ~~(412)~~ 530-7396

MIKE'S ATUO ELECTRIC
LIGHTNING BOLT ANTENNAS
RD # 2 RT 19
VOLANT, PA. 16156