



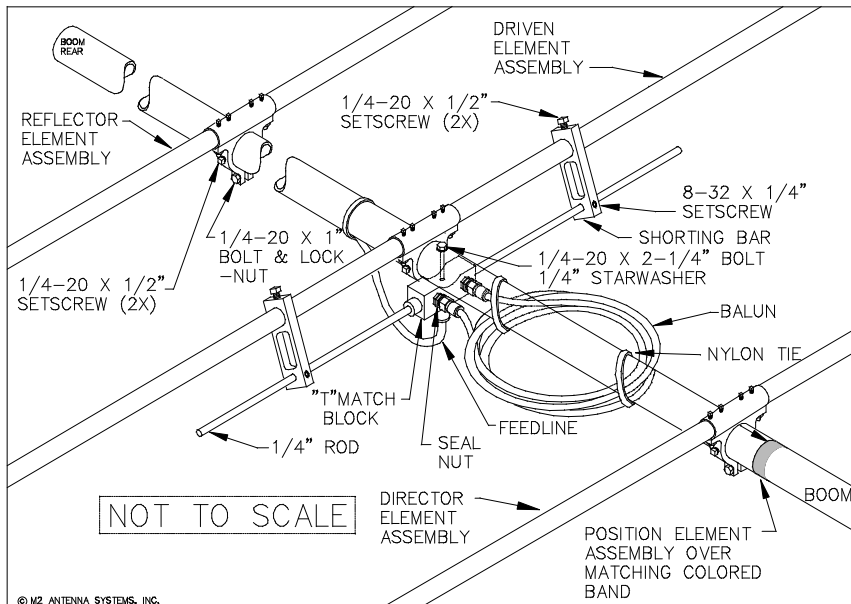
M2 Antenna Systems, Inc.

Model No: 75-5AS

Assembly of the 75-5AS is easy! There are 5 ELEMENT ASSEMBLIES, each one marked with a different color. There are 5 differently colored bands on the 2" X 104" BOOM that indicates the mounting position of the element assembly with the matching color. The steps below outline the assembly process and the correct hardware to use.

1. Install quantity 4, 1/4-20 x 1/2" ss square head set screws into the top of each ring clamp and one in the side.
2. Sort the elements by length and color code into pairs. One pair at a time, insert the open end of each element into the ring clamp till it bottoms on the center roll pin. Tighten the set screws and repeat for the other element half. Continue until all the element pairs are mounted on the ring clamps. The color bands should be near the ring clamps and the corked element end should be out.
3. Mount the 'T' MATCH ASSEMBLY BLOCK to the bottom of the boom using the 1/4" hole at 35" from the rear of the boom, and a single 1/4-20 x 2-1/4" bolt with a 1/4" star washer under the head of the bolt. Orient the two balun connectors towards the Front of the boom.
4. Rotate the boom until the 'T' match assembly is on top. With the element tubes on the bottom, slide the ELEMENT ASSEMBLIES onto the boom from both ends and position directly over the matching color band. Spread the ring clamp fingers with a flatbladed screwdriver, if necessary, to ease the movement on boom. Loosely add a 1/4-20 x 1" bolt / locknut and a 1/4-20 x 1/2" squarehead set screw to each ring clamp. Do not tighten yet.
5. Loosely add two 8-23 x 1/4" setscrews and one 1/4-20 x 1/2" squarehead screw to each SHORTING BAR. Slide the shorting bars down toward the "T" match assembly on the DRIVEN ELEMENT tubes and onto the 'T' MATCH rods. Position them according to the Dimension Sheet: The measurement is from the outer face of the 'T' match block to the inner face of the shorting bar. Align the rods parallel with the element sections and tighten all setscrews. A 5/64" Allen wrench has been provided for the smaller setscrews.
6. Push the DRIVEN ELEMENT ASSEMBLY against the 'T' match block and tighten the 1/4-20 x 1" bolt and locknut to secure the element. Tighten the 1/4-20 x 1/2" squarehead setscrew, to ground it.

75-5AS HARDWARE ARRANGEMENT



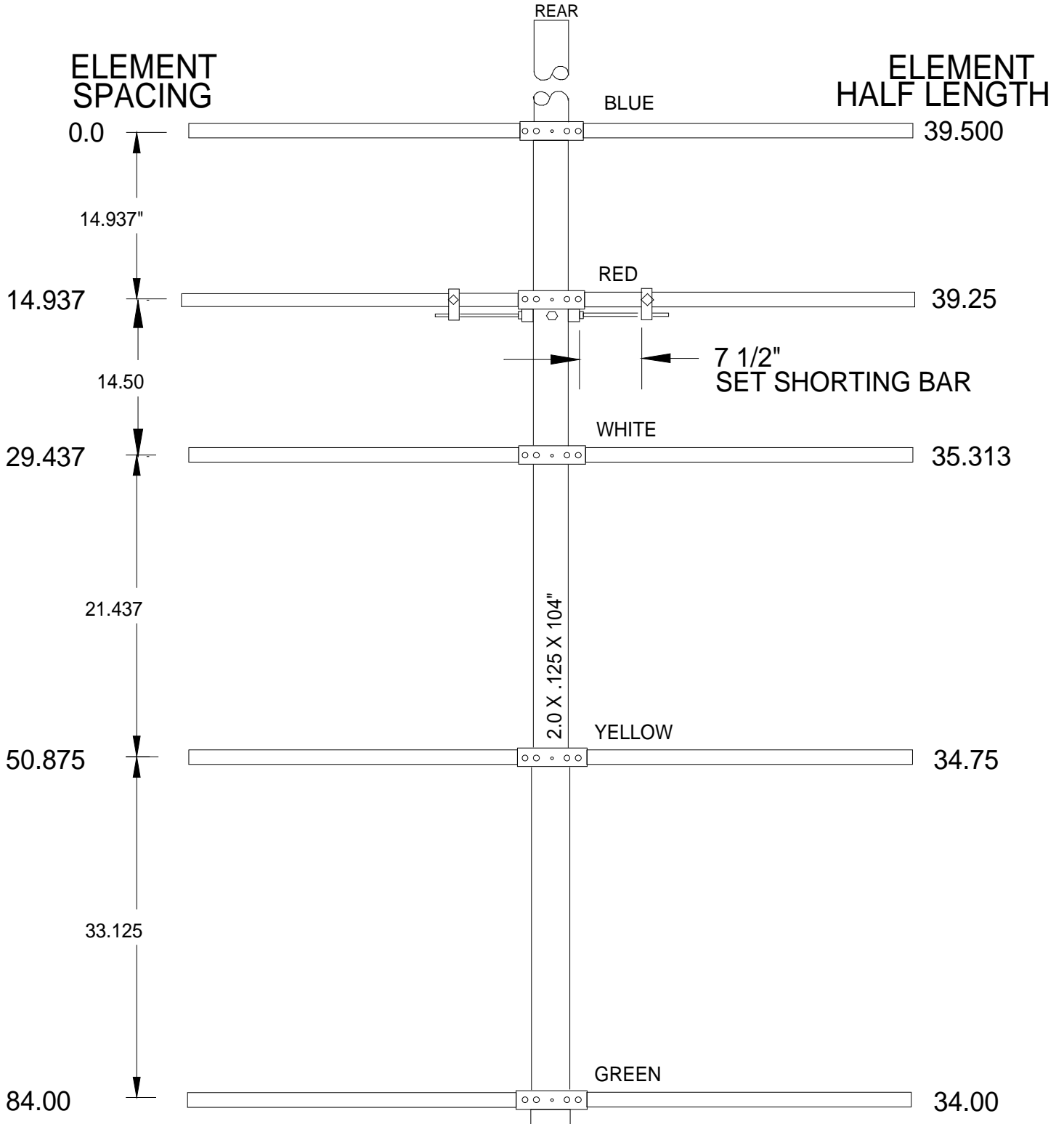
7. Align the remaining four PARASITIC ELEMENT ASSEMBLIES parallel to the DRIVEN ELEMENT ASSEMBLY. Tighten the 1/4-20 x 1" clamp bolts and the 1/4 x 1/2" setscrews.

8. Align the other four elements and tighten the 1/4-20 X 1" bolt and locknut on each element. Check to be sure all elements are aligned and now tighten the square head 1/4-20 X 1/2" set screws on each element.

9. Before installing the balun, thread a 3/8-32 SEAL NUT all the way onto both block connectors, black Neoprene side facing out. Attach balun and tighten connectors **gently** using a 7/16" end wrench. Then back the Seal Nuts out and finger-tighten firmly up against the face of the connectors (or tighten gently with 1/2" end wrench). Secure balun coil to the boom with two nylon cable ties. If the feed connector will be inaccessible after installation, install a feedline section reaching a convenient point.

75-5AS DIMENSION SHEET

TOOLS REQUIRED: Screwdriver, 11/32 wrench, socket or spintite, a 7/16" and 1/2" wrench or socket, tape measure.



75-5AS PARTS & HARDWARE

DESCRIPTION.....	QTY
Boom section, 2" x .065 x 104" str. HBA*	1
Element section, 3/4" x see Dimension Sheet, HBA	10
'T' match Assembly,HBA	1
Balun, RG6U half wave length	1
Ring Clamp, 2",HBA	5
Assembly Instructions	1

IN HARDWARE BAG	QTY
Shorting bars, 1/4" to 3/4", 1/2" x 1" x 4.375", HBA	2
Set screw, 1/4-20 x 1/2" square head ss	27
Bolt, 1/4-20 x 2-1/4" ss	1
Bolt, 1/-20 x 1" ss	5
Nuts, 1/4-20, ss, nylock	5
Set screw, 8-32 x 1/4" internal Allen head, ss	4
Nylon tie, large black, 11"	5
Nut Seals	2
Allen wrench, 5/64"	1

*HBA stands for hard black anodized

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