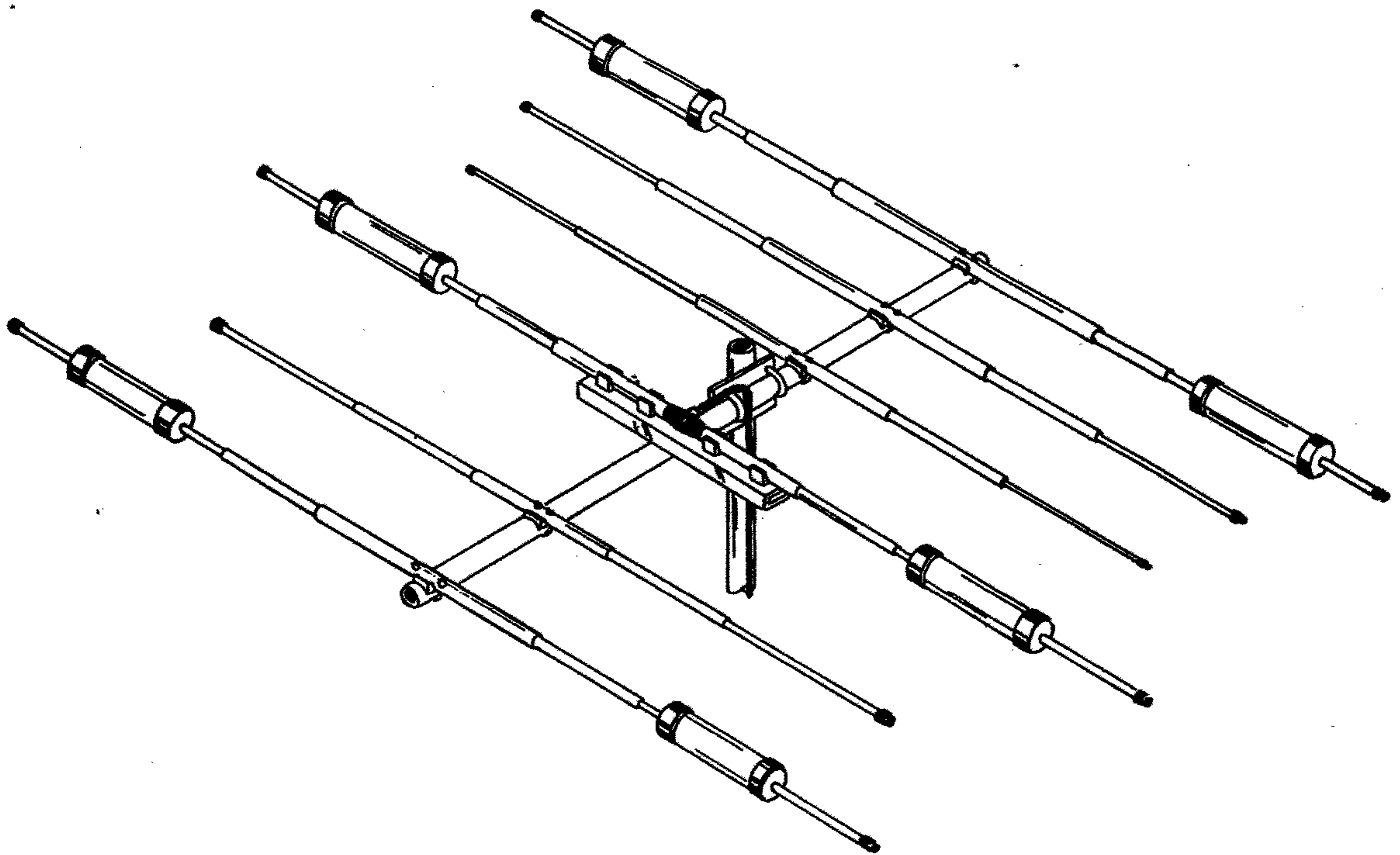


ASSEMBLY INSTRUCTIONS

FOR

Mosley Classic 36

TRI-BAND BEAM ANTENNA
MODEL CL-36



The high performance of your MOSLEY Antenna can only be achieved if the antenna is assembled in accordance with the instructions supplied. Substitution of materials or modification of design will materially lessen this performance.

CAUTION: Trap assemblies are color coded on one end only. This code should always be nearest the boom. Reversal of traps will cause a high VSWR & other malfunctions. READ DIRECTIONS CAREFULLY.

NOTE: This Mosley Beam Antenna is supplied with anti-corrosion compound, which should be applied between coupled sections of tubing to prevent formation of high resistant corrosion.

Begin by grouping all element and boom assemblies according to color code. For proper matching use 52 ohm coax. RG-8/U is recommended.

RADIATOR ASSEMBLY - COLOR CODE RED

Loosely install insulators (part 2) onto the element support (part 1) using lockwashers & screws (parts 3 & 4). Place element section (part 6A) into 'V' of insulators (part 2) - be sure screw hole of red coded end faces down, this is necessary to assure proper position of the coil assembly breather holes. Insert screw (part 5) through lockwashers, element & into insulators (parts 3, 6A & 2). Insert one end of the wires from matching tube assembly (part 11) into element (part 6A). Telescope plastic matching tube (part 11) over end of element.

Element section (part 6B) is assembled in the same manner as element section (part 6A) - be sure to insert the other wire of matching tube assembly into element section (part 6B) before inserting screws & lockwashers - Tighten screws on radiator support. Insert the red coded end of element section (part 7) into the assembled elements (parts 6A & 6B). Align holes according to frequency chart & secure with screws (part 8).

Insert red coded end of trap assembly (part 9) into end of element section (part 7). Secure with screws (part 8). Insert red coded end of element extensions (part 10) into trap assemblies (part 9). Align holes according to frequency chart & secure with screws (part 8). Place caplugs (part 17) on end of element extensions (part 10).

15 & 20 METER REFLECTOR ASSEMBLY COLOR CODED YELLOW

Element section (parts 12 & 13) are pre-assembled. Insert yellow coded end of element section (part 14) into element (part 12). Align the holes according to frequency chart & secure with screws (part 8). Insert yellow coded end of trap assemblies (part 15) into element section (part 14) & secure with screws (part 8). Insert yellow coded element section (part 16) into the trap assembly. Align holes according to frequency chart & secure with screws (part 8).

Place caplugs (part 17) over ends of element extensions (part 16).

10 METER REFLECTOR ASSEMBLY COLOR CODED WHITE

Element section (parts 18 & 19) are pre-assembled. Insert white coded end of element extension (part 20) into element (part 18). Align holes according to frequency chart, secure with screws (part 8). Press caplug (part 21) over end of elements (part 20).

10 METER DIRECTOR - COLOR CODE BLACK

Assemble in the same manner as 10 meter reflector using black elements in place of white.

15 METER DIRECTOR - COLOR CODE GREEN

Assemble in the same manner as 10 meter reflector using green elements in place of white.

10 & 20 METER DIRECTOR - COLOR CODED BLUE

Assemble in the same manner as the 15 & 20 meter reflector using blue elements in place of yellow.

BOOM & MAST PLATE ASSEMBLY

Insert end of boom splice (part 28) with screw hole into end of boom (part 27) with pre-drilled hole. Secure with screw (part 8). Insert remaining section of boom splice into red coded end of boom section (part 26). Center boom assembly (parts 26 & 27) on mast plate (part 30). Place clamping blocks (part 29) between the mast plate & boom. Place U-Bolts (part 22) around boom & through ears of clamping blocks into mast plate. Secure with lockwashers & nuts (parts 24 & 25). Assemble all four U-Bolts & clamping blocks to boom & mast plate in same manner - tighten securely.

REFLECTOR ASSEMBLY TO BOOM COLOR CODED YELLOW

Place clamping block (part 23) over the yellow code mark on boom (part 26). Place assembled reflector element on clamping block (part 23) so that breather holes of traps are facing down. Place a U-Bolt (part 22) around boom, through the clamping block & element. Secure with lockwashers & nuts (parts 24 & 25).

ASSEMBLING REMAINING PARASITIC ELEMENTS TO BOOM COLOR CODED WHITE, BLACK, GREEN, BLUE

All parasitic elements coded white, black, green & blue are assembled to the boom in the same manner as the 15 & 20 meter reflector coded yellow. Make sure all screws and breather holes are facing down & elements are located on the boom at their proper designated position according to color code. Check to see that all elements are on the same plane.

RADIATOR ASSEMBLY TO BOOM COLOR CODED RED

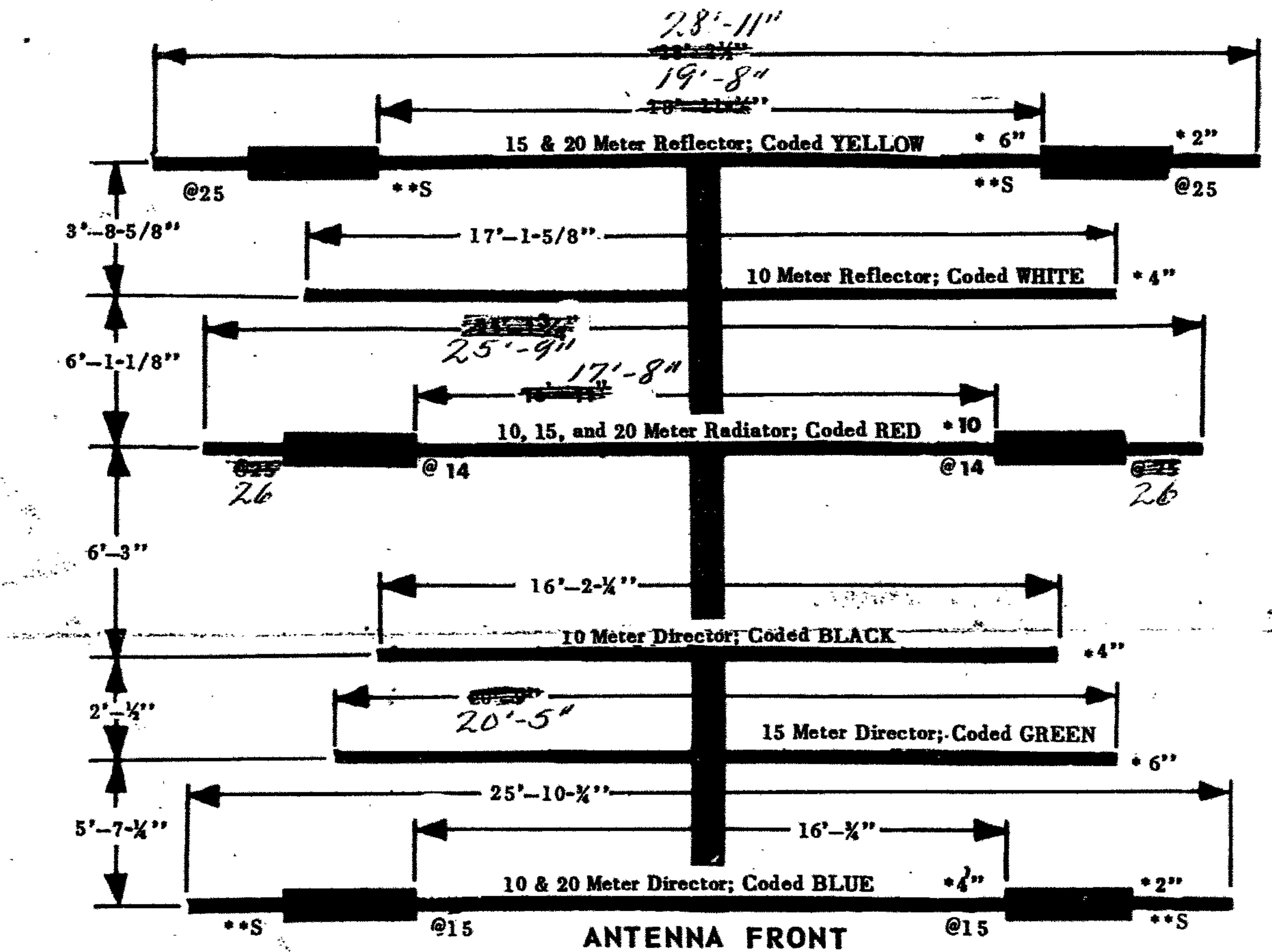
Place clamping block (part 23) over red code mark on boom (part 26). Place U-Bolt (part 22) around the boom, through clamping block & radiator element support (part 1). Secure with lockwashers & nuts (parts 24 & 25). Press caplugs (part 31) over end of boom (parts 26 & 27). A can of Weather Guard has been included with this antenna. After antenna has been assembled, spray or brush Weather Guard over entire unit before mounting on mast.

BE SURE WEATHER GUARD DOES NOT PREVENT GOOD ELECTRICAL CONTACT BETWEEN BOOM & MAST.

16
17

Mast clamping blocks (part 29) are designed to accommodate 2" OD tubing or 1½" ID pipe.

To achieve a good balance at the feed point, coil 4 turns of the transmission line in a diameter of about 4 inches and tape or wire in place on the boom near the mast. This coil isolates the outer conductor of the coax line from ground.

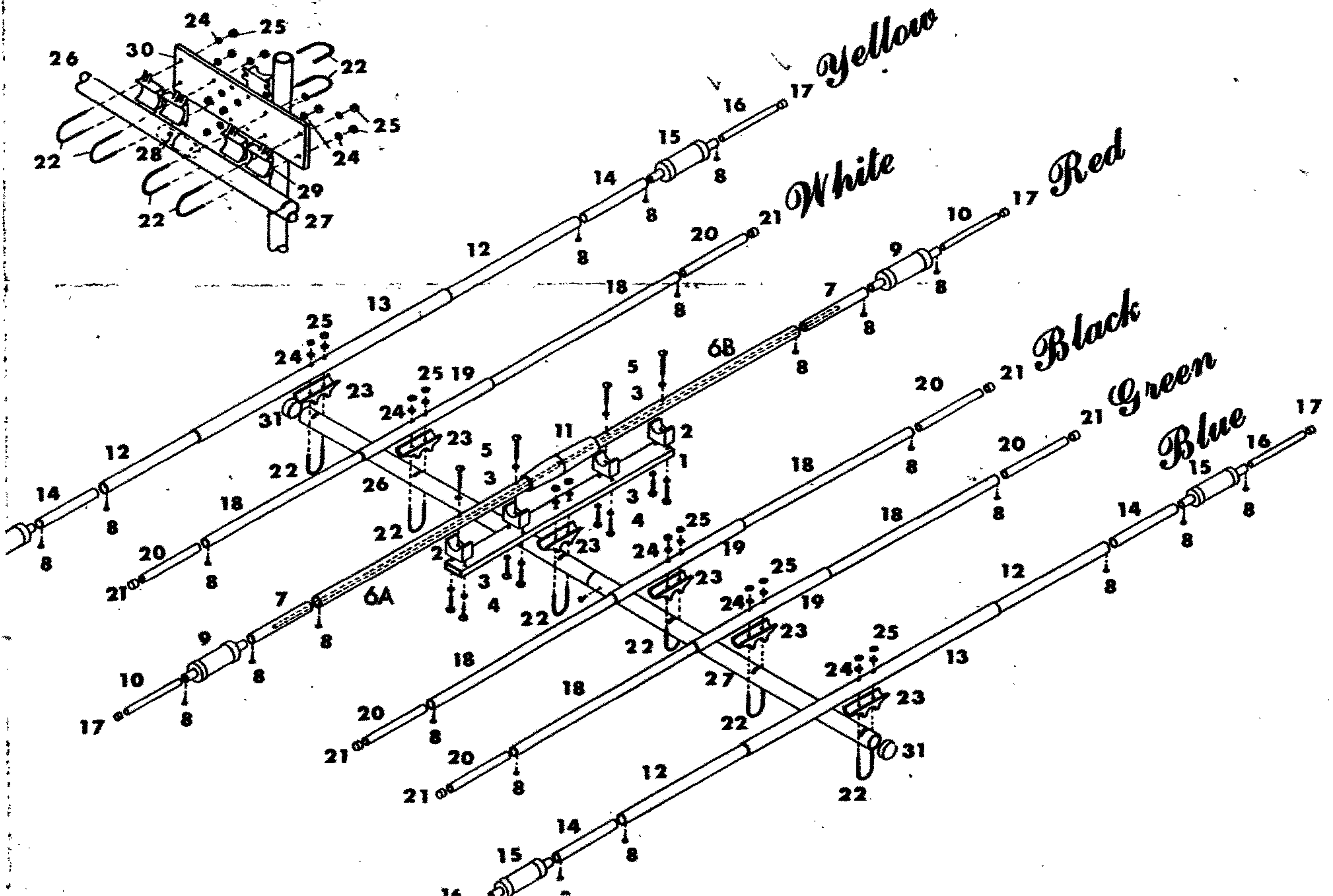


NOTE: The ARROWED dimensions above are for PHONE SETTINGS code N 2.

S** No trap turns

@ Number of trap turns

* Add these figures for total overall length change for setting No. 1*.



Part No.	Item	Quan.	Description
1334	1	1	✓ Element Support.
1002	2	4 ✓	# 4 Insulators, Plastic.
1004	3	12 ✓	# 10 Lockwashers.
1003	4	8 ✓	10-32 x 1 1/4" Machine Screws.
1005	5	4 ✓	10-32 x 1 3/4" Machine Screws.
1813	6	2 ✓	1" OD x .058 Wall Tube - Coded Red.
1815	7	2 ✓	7/8" OD x .058 Wall Tube - Coded Red.
1017	8	25 ✓	# 7 x 1/2" Metal Screws.
A-2718	9	2 ✓	Trap Assemblies - Coded Red.
2719	10	2 ✓	5/8" OD x .035 Wall Tube - Coded Red.
A-1826	11	1 ✓	Matching Tube Assembly.
1348	12	1 ✓	1" OD x .058 Wall Tube - Coded Blue.
2720	12	1 ✓	1" OD x .058 Wall Tube - Coded Yellow.
-----	13	2	1 1/8" OD x .058 Wall Tube - Pre-Assembled on Item 12.
1320	14	2 ✓	7/8" OD x .058 Wall Tube - Coded Blue.
1318	14	2 ✓	7/8" OD x .058 Wall Tube - Coded Yellow.
1328	15	2 ✓	Trap Assemblies - Coded Blue.
1329	15	2 ✓	Trap Assemblies - Coded Yellow.
1321	16	2 ✓	5/8" OD x .035 Wall Tube - Coded Blue.
1319	16	2 ✓	5/8" OD x .035 Wall Tube - Coded Yellow.
1016	17	6 ✓	5/8" Caplugs.
1349	18	1 ✓	7/8" OD x .058 Wall Tube - Coded Green.
2721	18	1 ✓	7/8" OD x .058 Wall Tube - Coded White.
2722	18	1 ✓	7/8" OD x .058 Wall Tube - Coded Black.
-----	19	3 ✓	1" OD x .058 Wall Tube - Pre-Assembled on Item 18.
1323	20	2 ✓	3/4" OD x .058 Wall Tube - Coded Green.
1324	20	2 ✓	3/4" OD x .035 Wall Tube - Coded White.
1322	20	2 ✓	3/4" OD x .058 Wall Tube - Coded Black.
1071	21	6 ✓	3/4" Caplugs.
1187	22	12 ✓	5/16-18 U-Bolts.
1190	23	6 ✓	# 48 Element Clamping Blocks.
1188	24	24 ✓	5/16" Lockwashers.
1189	25	24 ✓	5/16-18 Nuts.
1333-1	26	1	Boom Section - Coded Yellow, White & Red.
1333	27	1	Boom Section - Coded Black, Green & Blue.
1332	28	1	1 3/4" OD x .058 Wall x 12" Boom Splice.
1191	29	6 ✓	# 47 Clamping Blocks.
1192	30	1 ✓	3/8 x 4" x 18" Mast Plate.
1133	31	2 ✓	2" Caplugs.
1085	32	1 ✓	Type "N" Coax Connector.

FREQUENCY CHART		
Band	* 1 Code Mark	□ 2 Code Marks
10 METERS	28.000	28.500
15 METERS	21.050	21.300
20 METERS	14.100	14.250
	* CW	** PHONE

NOTE: Do not attempt to stagger settings. Both frequency adjustments must be made for optimum performance. Use Either Code 1 or Code 2 Throughout.

Mosley Electronics Inc.

RAP SENT @ 79¢
25 May '95