PARTS LIST FOR RV-4C

Caution has been taken to assure that all parts have been included - Check antenna parts against the list below - A box has been placed in front of each item for this purpose.

PAR	T NO.	ITEM	QUAN.	DESCRIPTION
	2489	1	1	75ft. Wire.
	1235	2	4	Insulators.
	-2342	3	1	Connector Assembly.
	2281	4	1	Ground Strap.
	2360	5	1	VB-28 Bose.
	1289	6	4	#4 x 3/8" Screws.
	2362	7	2	3/10-18 x 1/2" Screws.
	1353	8	2	10-32 x 3/11 Screws.
	1004	9	1.4	#10 Lockwashers.
	2339	10	1	Casting.
	2304	11	4	10-32 x 11/4" Screws.
	1066	12	4	10-32 Hex Nuts.
	2340	13	2	U-Bolts.
	1188	14	4	5/16" Lockwashers.
	1189	15	4	5/16-18 Hex Nuts.
	2341	16	1	Element, 11/4" x 501/2".
	2343	17	1	Element, 11/6" x 54" (one end swaged to 3/4" ID).
	-2345	18	1	Trap, 10 & 15 meter.
	2421	19	1	Element, 7/8" x 303/4".
	-2357	20	1	Trap, 20 meter & shorted coil.
	2358	21	1	Element, $\frac{5}{8}$ " x 48" (swaged one end).
	1486	22	1	Element, 3/8" x 54" (tapped one end).
	1423	23	1	3/8" Protective Closure.
	1113	24	6	#6 x 3/4" Screws.
	1487	25	1	5/16" Flat Washer.
	2359	26	5	Top Hat Radials.
	1482	27	1	5/16-18 Screw.
	2367	28	1	2" Clomp.
	2374	29	1	8-32 x 1" Screw.
	2412	30	2	#8 External Lockwashers.
	1199	31	1	8-32 Hex Nut.
	2368	32	1	Element Section, Trap.
	2475		1	Weather Guard.
	-1123		3	Anti-Corrosive Compound.

ASSEMBLY INSTRUCTIONS MODEL RV-4C



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

ASSEMBLY INSTRUCTIONS FOR RV-4C

Read and study the instructions before attempting assembly. Coat all telescoping tubes and points of electrical contact with Mosley Anti-Corrosive Compound (see package for instructions). The numbers appearing within brackets () in text and numbers on drawings correspond with the item numbers of parts list. Boxes are provided for checking your progress of assembly. Before attempting assembly it should be decided whether the antenna is to be ground mounted or mounted above ground level.

GROUND MOUNTING

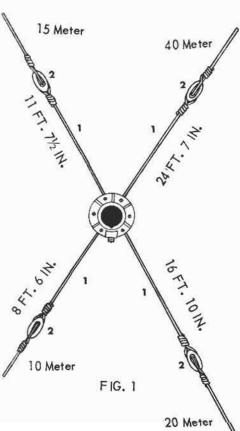
When ground mounting the antenna, cut radials to the length shown in Fig. 1. It is advisable to cut these radials so that the minimum is as shown. (Allow extra for connecting to antenna base). Insulators are not used. It is advisable to bury the radials in the ground. In relatively dry soil it is recommended to bury the radials as deep as possible. In areas of good ground conductivity the radials may be replaced with a single 6 ft. ground rod. The mast support for ground installation should be at least 3 ft. long and $1\frac{1}{4}$ in. schedule 40 pipe size which is a common $1\frac{1}{4}$ in. pipe with an OD slightly greater than $1\frac{5}{6}$ in. This pipe should be driven into the ground so that the pipe extends 6 in. above ground. For ground installation, assembly of the vertical element is shown in Fig. 3.

ABOVE GROUND MOUNTING

For above ground installation of the antenna, the length of the radial becomes an important factor in the resonant frequency of the antenna. In this type of installation the frequency of resonances may be slightly raised or lowered by adjusting the length of the radial which operates on the band on which the frequency change is required. By lengthening the radial, the resonant frequency will be lowered. By shortening the radial, the frequency will be raised. The downward slope of the radial is to be held to a minimum. The further or greater the angle from horizontal the longer will be the radial requirements, therefore, the length given in Fig. 1 may change with each individual installation. For above ground installation, assembly of the vertical element is shown in Fig. 4. IT IS ADVISABLE THAT THE SUPPORTING MAST BE UN-GROUNDED. The mast can be from 11/4 in. to 2 in. OD.

BASE ASSEMBLY (SEE FIG. 2)

- Cut 4 radials (1) as shown in Fig. 1, allowing extra for tuning for above ground installation.
- ☐ ☐ Slightly bend wire from Female Connector (3) so that connector may be placed into Base (5) without the wire hitting the far side.



 □ Place Ground Strap (4) on Base (5) and install Connector (3) so that wire goes in of the base. Loosely secure with screws (6). □ Bend bottom of Ground Strap (4) to underneath side of Base (5). This tab will just two base mounting holes for Screws (11). Tighten Screws (6). Loosely install Screws (6). Loosely install Screws (7) down into the base. □ Align Ground Strap tab (4) with Casting (10) as shown. Loosely install Screws (8) washers (9) through top of Base (5) and into Casting (10). Loosely install Screws washers (9) and Nuts (12). Tighten Screws (8). □ Place Radial Wire (1) around Screws (11) and between Lockwashers (9). Tightly tof the radial wire 8 turns and solder. Tighten Nut (12). The order of the radial wire Fig. 1 may be changed to suit your installation. □ Loosely install U-Bolts (13) to Casting (10) with Lockwashers (14) and Nuts (15) U-Bolts (13) around the supporting mast and tighten nuts. 	ust clear the rews (7) and B) and Lock- c (11), Lock- wist the end res shown in
VERTICAL ELEMENT ASSEMBLY (See Fig. 3 For Ground Mounting) (See Fig. 4 For Above Gnd. Mtg.) Telescope the unswaged end of Element (17) into the end of Element (16) having hole. Align holes and secure with Screw (24). Telescope end of the SHORTEST TRAP ASSEMBLY (18) into swaged end of Element (17). Align holes and secure with Screw (24). Telescope end of Element (19) having holes into Trap Assembly (18). Align holes and secure with Screw (24). Telescope end of the LONGEST TRAP ASSY. (20) into Element (19). Align holes and secure with Screw (24). For GROUND MOUNTING telescope the unswaged end of Element (21) into the tube of Trap Assembly (20). Align hole of Element (21) with hole closest to weather cap of Trap Assembly (20). For ABOVE GROUND MOUNTING, several combinations of element length and top hat may be used depending on resonant frequency requirements on 40 meters.	15 15 15 14 15 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

