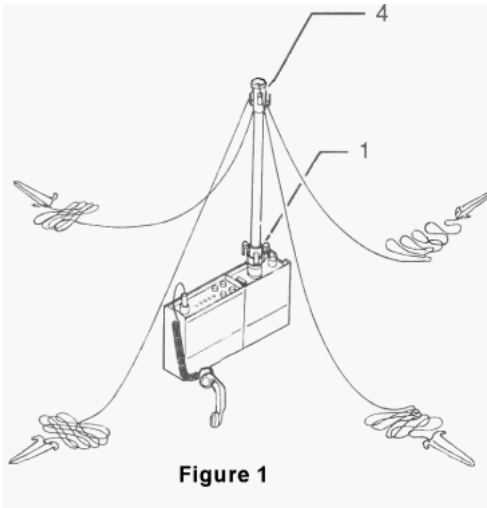


ASSEMBLY PROCEDURE FOR **AS-2259/GR** - 1990 ANTENNA

WARNING

Be sure transmitter power is off before proceeding with antenna assembly.



Step 1. Install base assembly (Item 1) on antenna coupler or directly on your transiever. Connect ground wire from base assembly to ground terminal provided on the transceiver.

Step 2. Install top mast assembly (Item 4) on top of base assembly and uncoil elements per Figure 1.

Step 3. Measure anchor positions using the crimped spacer clamp on the element wires as a guide and install anchors. Refer to Figure 2.

Note: Before connecting mast sections be sure to wipe unpainted surfaces clean of mud or dirt.

Step 4. Assemble mast by raising top mast assembly and inserting mast sections one at a time as shown in Figure 3.

Step 5. Adjust tension on all elements until mast is plumb. Elements need not be excessively taut.

OPERATION

The **1990** Antenna is designed to replace a whip antenna when path loss or terrain masking make surface wave propagation impractical. The **1990** provides a radiation pattern that is directed straight up for the 2.0 to 20.0 MHz band. This provides excellent short range skywave communication from 0 to approximately **300 miles**.

A typical radiation pattern for the **1990** Antenna is shown in Figure 4.

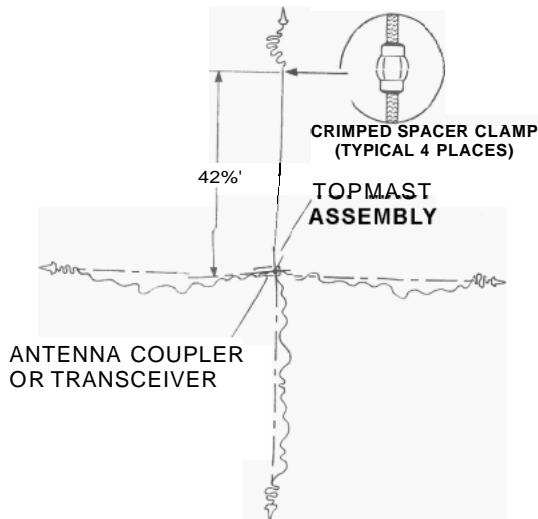


Figure 2

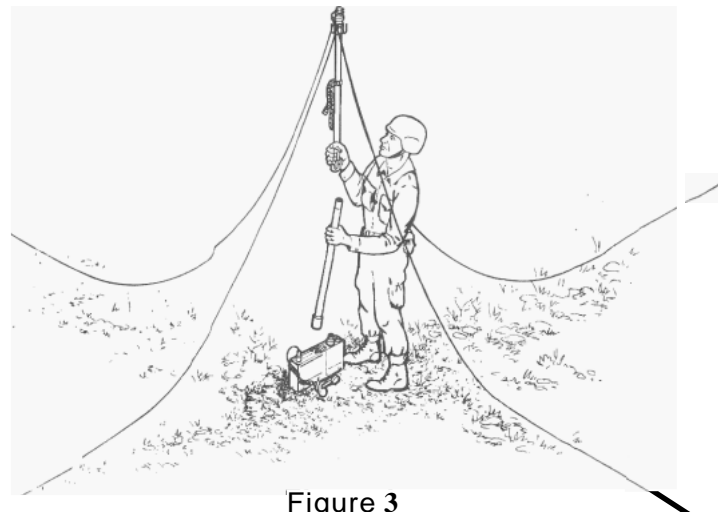


Figure 3

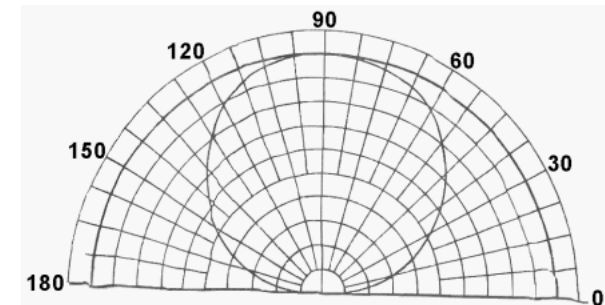


Figure 4
Typical Elevation Plane Pattern

1990 PARTS LIST

Item No.	Part No.	Description
1	878315	Base Assembly with Tuning Chart
2	150551	Tuning Chart (for AN/PRC-47)
3	878314	Mast Section
4	878312	Top Assembly without elements
5	878319	Long Element
6	878320	Short Element
7	930023	Strap
8	150550	Ground Stake
9	880183	Rope Hook Assembly
10	930024	Carrying Case

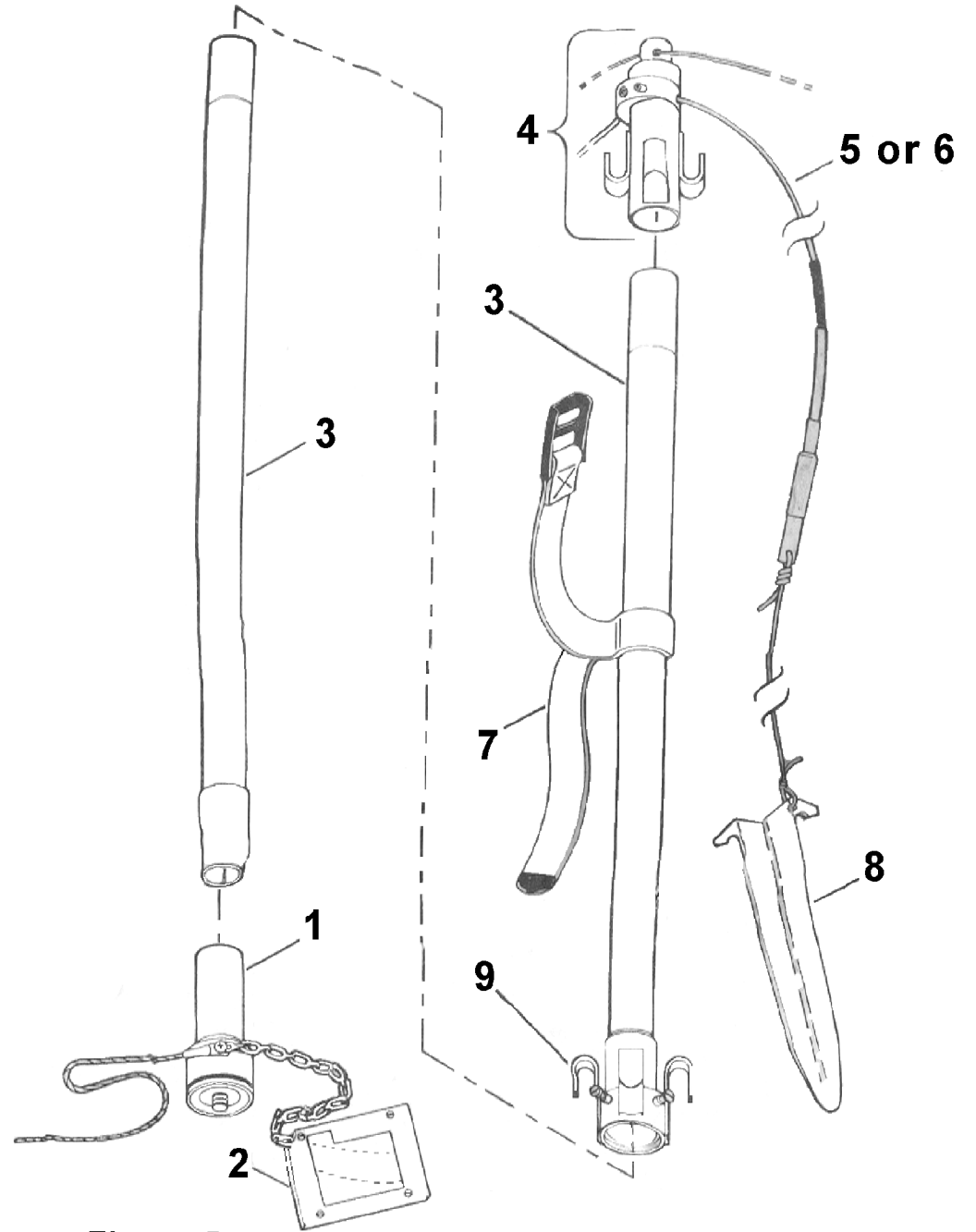


Figure 5