

A single wire antenna, similar to that illustrated in figure 2-2, may be used quite successfully for general communications reception. In cases where an antenna is desired for better operation in a limited frequency

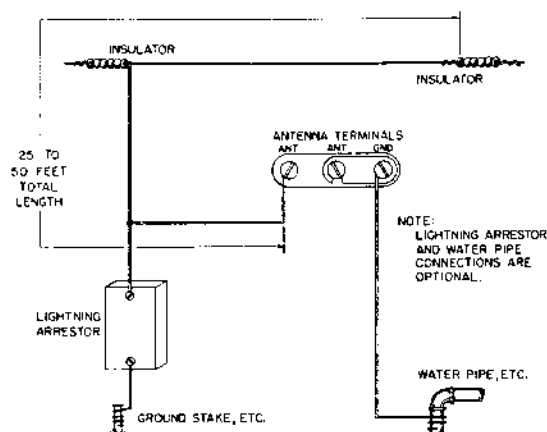


Figure 2-2. Typical Single-Wire Antenna Hookup

range, a doublet antenna, similar to that illustrated in figure 2-3, is recommended. The lightning arrestors and water pipe ground connections shown in the antenna illustrations are optional.

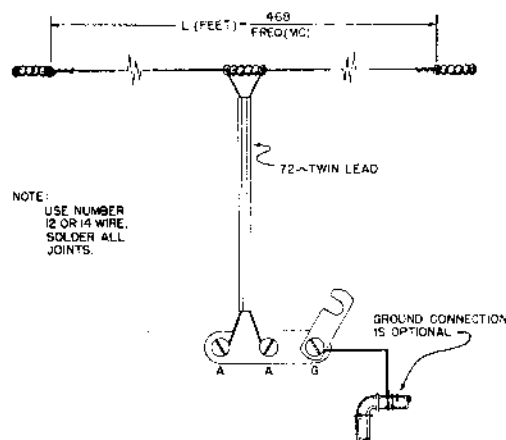


Figure 2-3. Typical Doublet Antenna Hookup

## SECTION 3 OPERATION

### 3.0 CONTROLS

All controls and indicators necessary to operate your NC109 are located on the front panel. The diagram on the following page, (figure 3-1), shows the location of these controls, switches, and indicators and

gives a functional description of each part.

### 3.1 OPERATING PROCEDURES

Initial control and switch settings are shown in Table II.

TABLE II

CONTROL	AM SETTING	SSB SETTING	CW SETTING
SELECTIVITY	OFF	OFF	OFF
PHASING	(par. 3.5)	(par. 3.5)	(par. 3.5)
SENSITIVITY	Maximum	Mid position	Mid position
ANTENNA	Mid position	Mid position	Mid position
BAND	Optional	Optional	Optional
MODE	AM	SSB	CW
PITCH	Inoperative	Mid position	Mid position
REC-STBY	REC	REC	REC
TONE	Optional	Optional	LO
VOLUME	Mid position	Maximum	Maximum
MAIN TUNING	Optional	Optional	Optional
BANDSPREAD	SET	SET	SET