

VEE-D-X Rocket Booster

INSTRUCTION SHEET

GENERAL:

The Vee-D-X "Rocket" Booster is a single-channel, high gain pre-amplifier designed for mounting on the antenna mast. Indirectly controlled by the TV receiver, it is fully automatic, and once adjusted, requires no further attention. In construction, the "Rocket" is made weather-proof with provision for adequate ventilation, insuring normal circuit operation under all conditions.

COMPONENTS:

- A. Booster proper (See Figure 1).
- B. Mast Mount Strap (Fig. 2).
- C. Hanger (See Figure 3).
- D. Control box (See Figure 4).

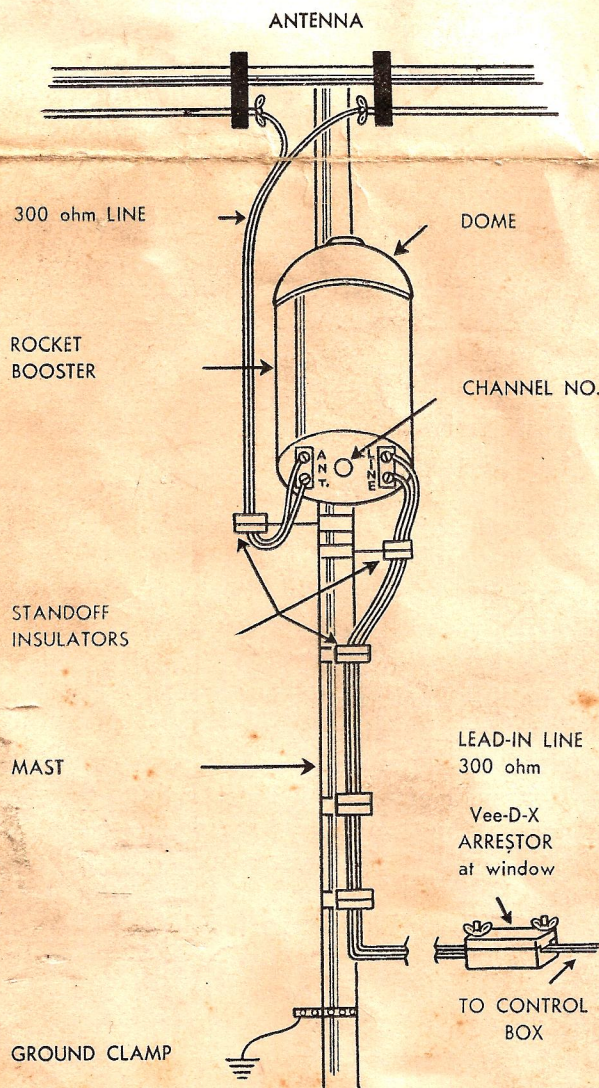


Fig. 1

INSTALLATION OF BOOSTER PROPER:

The booster proper should be mounted on the mast as close to the antenna as practical. Where stacked arrays are used, the booster should be attached at the center tie-point where the transmission line is connected.

- (a) Locate and erect the mast in a clear area. Temporarily mount the antenna just above head's height and attach the booster proper on the mast about six inches below the antenna. To attach strap to mounting bracket, first bend the free end of the strap into a hook as shown in Fig. 2. Pass the hooked end through one hole, around the center V and through the other hole. Pull it taut, then turn out screw on strap until it is flush with stationary nut. Place booster bracket with strap around mast and hook the strap with the nearest hole over the stud. Tighten screw bolt firm and turn down locking nut to secure fastening.

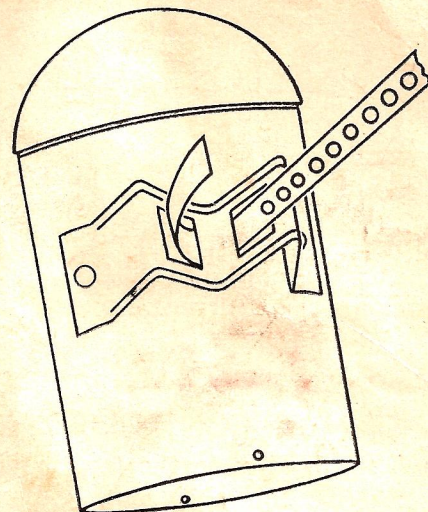
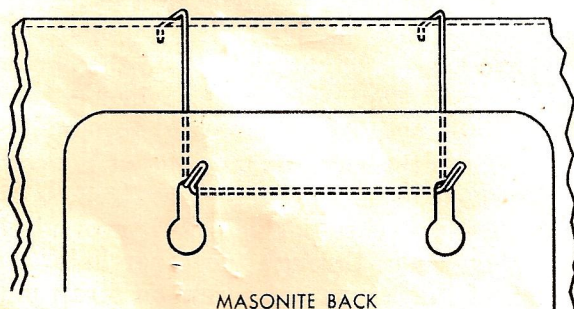


Fig. 2

- (b) Connect 300 ohm down-lead-in to the terminals marked "LINE" on the booster proper, and prepare the other end for attachment to the terminals marked "LINE" on the control box at the TV set.
- (c) Attach a short length of 300 ohm line to the antenna and connect other end to the terminals marked "ANT" on the booster proper. Fasten a mast stand-off insulator opposite the base of the booster proper to hold the line firm.

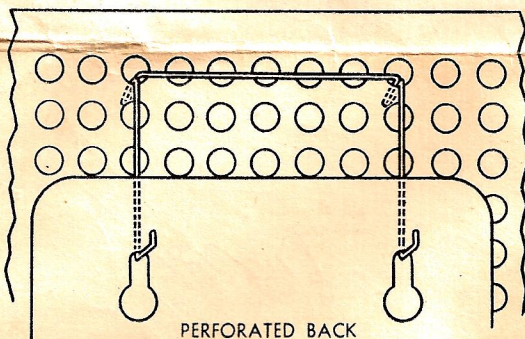
- (d) A stand-off insulator should also be placed three inches below the booster proper to relieve the down pull on the terminals. See Figure 1. Use additional insulators as necessary for proper lead-in line support. **Allowance for enough length of transmission line should be made for the permanent mounting at the top of the mast.**

Attach lead-in from the booster proper thru a Vee-D-X lightning arrester, providing usual ground connections. Either a standard or mast mounted lightning arrester may be used. Hang the control box on the back of the TV set with the hanger provided (See Figure 2).



MASONITE BACK

SLIP SQUARE HOOKS OVER TOP EDGE FOR HANGING ON MASONITE BACK.



PERFORATED BACK

REVERSE HANGER, INSERT HOOKS INTO HOLES FOR HANGING ON PERFORATED BACK.

FIG. 3

INSTALLATION OF CONTROL BOX:

- Attach the lead-in to the terminals marked "LINE" on the control box. Use a short length of 300 ohm line for connection from the terminals marked "SET" to the terminals on the TV Receiver marked "ANT".
- Insert the AC cord plug of the TV set into the receptacle on the control box and plug the control box cord into a 115 volt AC 50-60 cycle wall receptacle. Turn on TV set.
- Figure 3 shows the control box with a voltage compensator control having a screw driven slot with a pointer. When

shipped, this is adjusted to deliver the correct voltage for approximately 50 feet of twin lead made of No. 20 copper wire with 115 volts available at the power source. For any other length of lead-in, adjust the control for the estimated number of feet of line used. In cases of uncertainty as to wire size or line voltage, an accurate adjustment can be made with an A-C voltmeter by correcting the control until 23.0 volts A. C. is delivered across the "LINE" terminals of the booster at the antenna.

ADJUSTMENT AND TUNING

- Boosters are pre-tuned at the factory, and should require no further adjustment in the field for average conditions. Under difficult conditions where signals are still weak after installation, it is recommended that the booster be tuned slightly to insure peak performance. Suggested procedure is to attach a field strength meter to "SET" terminals on control box, turn on TV set to operate relay and energize Booster, remove dome from Rocket as per directions indicated thereon. Use non-magnetic screwdriver and tune slugs through two vent holes provided in cover; peak for maximum signal. **CAUTION—Do not connect field strength meter directly to "LINE" which has 24 volts on it. The excessive voltage will damage this meter.**
- FUSE.**
The control box contains a No. SAG 1/4 amp. fuse which protects the equipment against accidental shorts. Check for a "blown" fuse in all cases where the unit fails to function after proper installation has been completed.
- MULTIPLE DWELLING INSTALLATIONS**
In cases where the Rocket Booster is used as a line feed amplifier (Vee-D-X Multiple Dwelling Booster System) it may be desired to operate the unit continuously. For such service, connect a jumper wire across the two lugs provided for the tie point next to the thermal relay in the control box. The power will then be on when the A-C cord is connected to a 115 V 60 cycle outlet. A time clock can also be incorporated in this manner to provide service only during specified hours.
- FINAL CHECK**
All adjustments having been completed,

the mast is now made fast and the antenna and booster are both elevated to their permanent place at the top of the mast. (See "Installation of Booster Proper")

(d). Check over all the connections to be certain that a good installation has been made—while carefully observing all of the foregoing instructions.

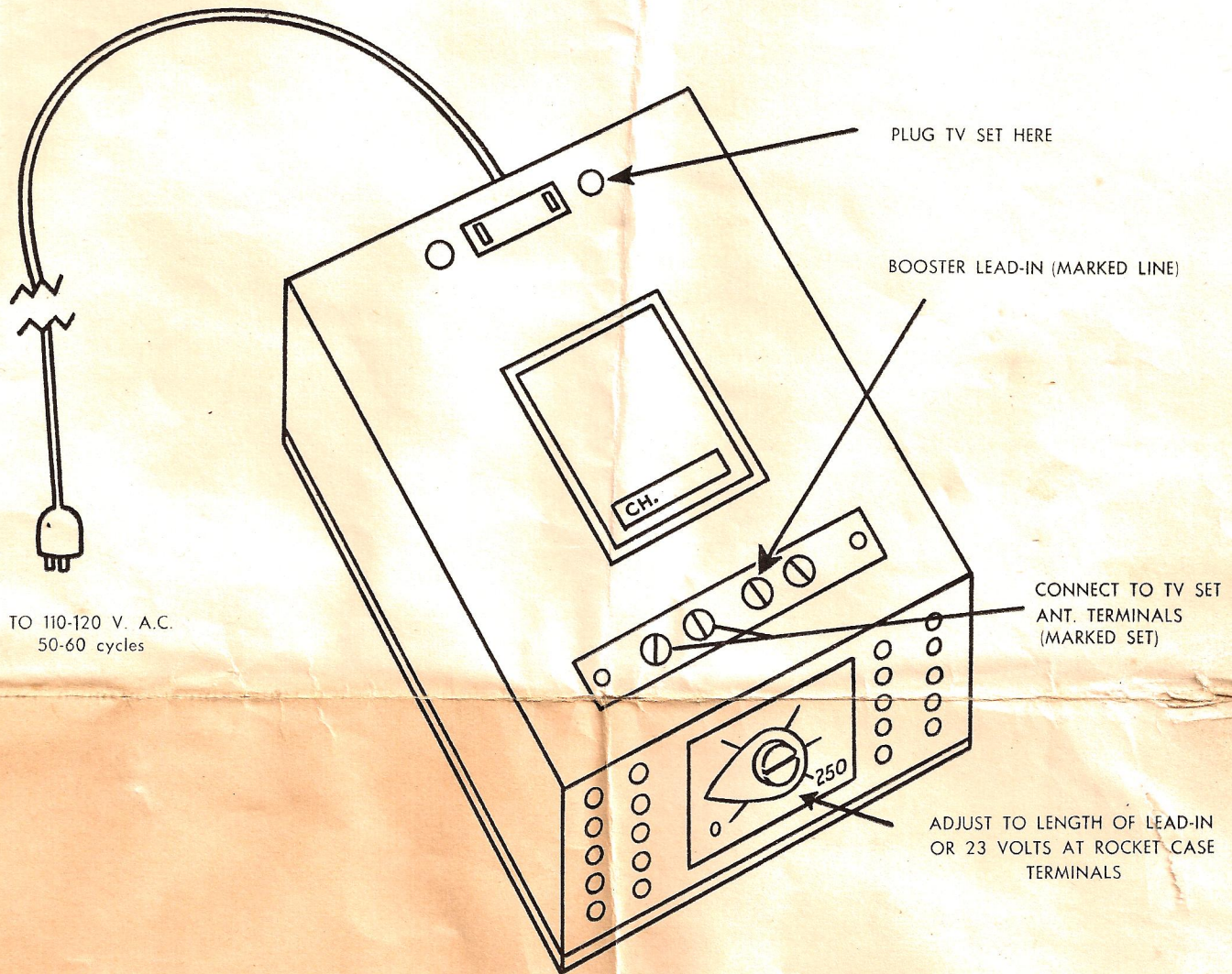


FIG. 4

ROCKET BOOSTER SPECIFICATIONS

Model-RB

Channel-Single

Tube Type, one 6J6

Input Impedance, 300 ohms

Output Impedance, 300 ohms

Adjustment, 0-250 feet of line

Fuse, Standard Type No. 8 AG- $\frac{1}{4}$ amp.

Operation, fully automatic with TV Receiver

Power rating, 12 watts, 110-120 V. A-C, 50-60 cps.

Weight of Booster mounted on mast, 1 $\frac{1}{2}$ lbs.

Mast bracket accommodates $\frac{3}{4}$ to 2- $\frac{1}{2}$ in. dia.

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