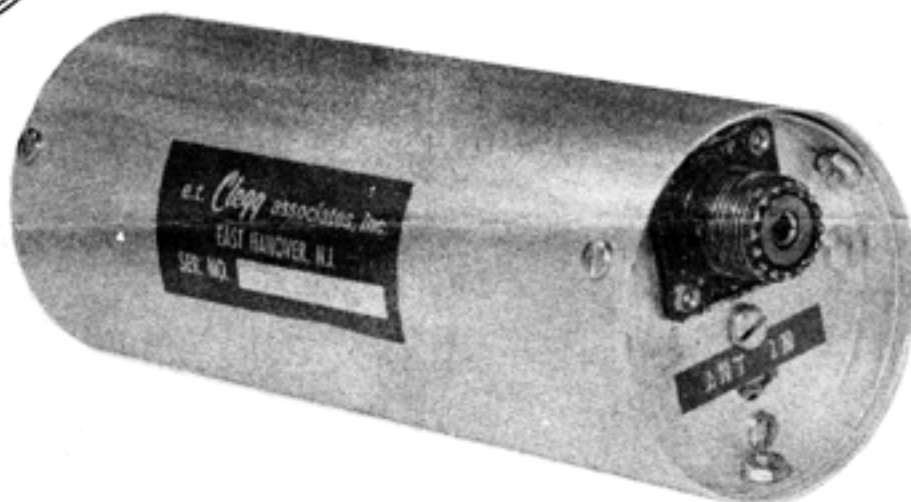




T/R BOOSTER



IF YOU WORK 2 METERS YOU NEED THE CLEGG T/R BOOSTER

If your antenna feed line is longer than 40 feet
 If some of the signals you hear are less than Q5
 If the other fellows hear more than you do
 If your present 2 meter receiver lacks gain or sensitivity

Regardless of how big your 2 meter antenna is —
 Regardless of how good your 2 meter antenna —

The T/R BOOSTER is guaranteed to improve your "hearing power" if you have more than 3 dB of feed line loss!

Here's a remarkable \$47.50 gadget that establishes your receiving capability right up at the antenna . . . where it really counts.

WHAT IS THE T/R BOOSTER?

The Clegg T/R Booster is a low noise, moderate gain, band pass preamplifier ruggedly constructed and enclosed, along with a specially designed relay assembly, in a compact weather-proof housing with input and output coax receptacles. When 10 to 15 VDC is applied to the unit, the amplifier is actuated (on receive) providing a 2-3 db noise figure and 14 to 20 db of gain. When the actuating voltage is removed (on TRANSMIT) the unit is passive and introduces virtually no VSWR or loss in the transmission line. Complete specifications and performance data on reverse side.

e.t. Clegg associates, inc.

LITTELL ROAD, EAST HANOVER, N. J. 07936 • PHONE: (201) 887-4940

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WHY THE T/R BOOSTER?

The useable sensitivity of any receiving system is principally determined by the Noise Figure of the first stage in that system. In the typical ham VHF system a feed line loss of 3 to 10 db exists between the antenna system and the receiver input. To properly define the Noise Figure of the receiving system this attenuation must be numerically added to that of the receiver itself. For instance, a good 2 meter receiver may have a 2 db Noise Figure. The 100 plus feet of RG-8/u cable between the antenna and the receiver may increase this noise figure to more than 6 db. If one adds a state of the art preamplifier in front of the receiver down in the shack the improvement would be barely detectable. If however, a good preamplifier were installed up at the antenna the improvement will be a significant 4 db. This is the purpose of the T/R Booster — to establish the receiving system noise figure at the place where it counts — at the head end of the receiving system — the antenna.

INSTALLATION AND OPERATION OF THE T/R BOOSTER

The T/R Booster is designed so that it need merely be inserted in the coax line between the antenna and the antenna relay in the station. It should be located as close to the antenna end of the coaxial line as is practical. A small single conductor wire must be taped along the outside of the coax between the shack and the T/R Booster to provide actuating power on RECEIVE. The Clegg 22'er MK II and 22'er FM as well as many other units have the necessary 10-18 VDC at 150 to 250 Ma available and properly switched to automatically actuate the T/R Booster on RECEIVE and deactivate it on TRANSMIT. Where this automatically sequenced voltage is not provided by the equipment in use, it can normally be provided by a very simple power supply.

Specifications

Gain in RECEIVE (Active)	14 - 18 dB
PASS BAND	±3 dB — 143.5 to 148.5 MHz -40 dB at 130 and 165 MHz
NOISE FIGURE	Less than 2.5 dB
INPUT & OUTPUT IMPEDANCE	50 ohms
VSWR on TRANSMIT	Less than 1.1
INSERTION LOSS ON TRANS.	Less than .1 dB.
DIMENSIONS	5½" Long x 1¾" diam.
WEIGHT	Approx. 12 oz.
CONNECTORS	UHF females (SO-239) (Type N available on special order)
AMATEUR NET PRICE	\$47.50

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