



PCS Electronics
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5W FM BOOSTER

5W high-gain VHF amplifier

Our 5W booster takes about 100mW and amplifies this to around 5W. High quality filter removes harmonics, boosting your range without causing interference.

From all of us we wish you happy broadcasting!

Send us your comments to feedback@pcs-electronics.com
For tech support please send email to support@pcs-electronics.com

Before you start...

Let us clear up some basic things you need to know before we move on:

-Antenna You have to realize that antenna was, is and will always be crucial part of the system, especially if you need extra range. Special care has to be taken! It is usually a good idea to place antenna away from your transmitter and audio system. If you cannot meet these requirements, you could experience feedback and other RF problems. We cannot guarantee proper operation unless suitable antenna system is used!

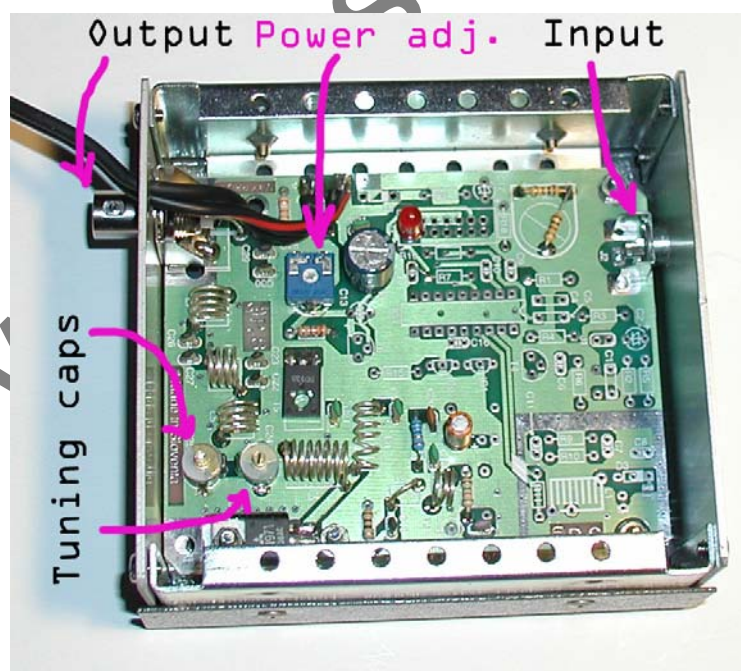
BEST RESULTS CAN BE OBTAINED
BY PLACING YOUR ANTENNA AS
HIGH AS POSSIBLE! DON'T
FORGET TO TAKE CARE OF
PROPER GROUNDING AND
LIGHTNING PROTECTION

INSTALLING 5W booster

Connect your exciter to the RCA jack, connect antenna to the BNC jack at the output. Connect power supply (+ goes to red, - goes to black).

STEP 1 – TUNE UP

It is recommended that you use dummy load when you tune your booster. Now turn your exciter on and adjust two tuning caps and watch the LED diode while you do this. More power means brighter LED. So, adjust for maximum brightness. If you want to lower your power, don't simply "detune", use the power adjustment trimmer, shown on the picture below. Don't repeat this too often, you could destroy the trimmers eventually. We also recommend that you get a set of plastic tuning tools from Radio Shack. This way the metal from the screwdriver won't interfere with adjustment.



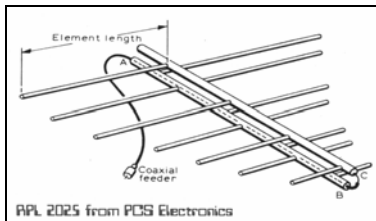
IMPORTANT NOTE!

Please remember to turn off the transmitter when not in use! This goes especially for the 5W booster. Make sure you turn it off until you start the program on the desktop and turn it off after you stop using the program! Remember that anything you broadcast through the transmitter can be heard by anyone tuning in to that frequency. Although it is unlikely certain weather conditions may allow the signal to go further than your immediate listening area so please don't broadcast anything you don't mind anyone else hearing.

WARRANTY

Any PCI-MAX unit that fails due to defects in workmanship and/or materials will be repaired or replaced, at the discretion of the manufacturer, to the original purchaser who provides dated proof of purchase. Damages caused by abuse, misuse, negligence (i.e. Water damage, improper installation, lightning strike) are considered to be avoidable.

Also available from PCS Electronics



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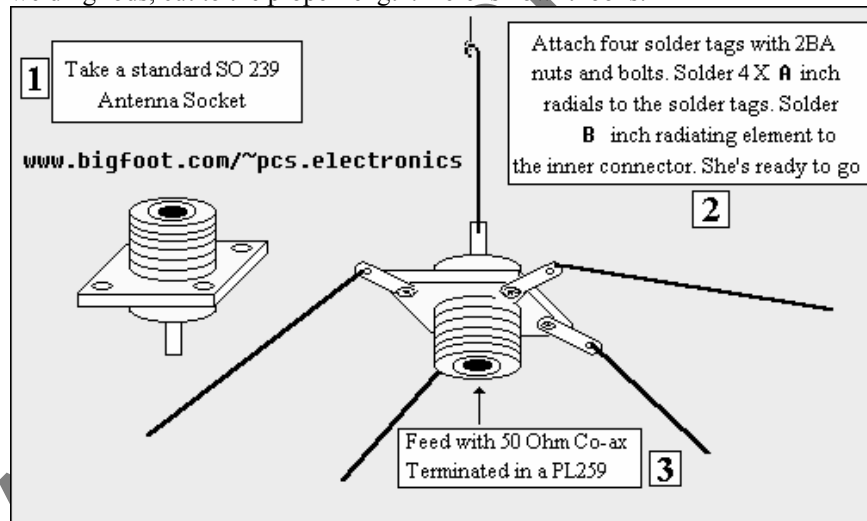
Professional MONO and STEREO exciters at power levels between 5 and 20 W. We can also ship aerials, stereo encoders and other equipment. For pictures and daily fresh prices check our web site:
<http://www.pcs-electronics.com>

Appendix A: How to increase range?

First and most important, the best thing you can ever do to increase performance is to get better aerial and to move it higher!

Appendix B: GP aerial design

You can build an inexpensive 1/4 wave antenna from 1 SO-239 chassis mount RF connector and 5 - 3' bronze welding rods, cut to the proper length. Here is how it looks:



If you have a SWR meter, leave a bit longer radiator and adjust it later by cutting to achieve minimum SWR.

Most designs on the web don't compensate for the fact that GP aerials are not wideband aerials. Here is a Freq/element length chart for this simple GP aerial, all element lengths are in millimeters:

Frequency	Radiator - B	Radials - A
108MHZ	660	693
104MHZ	684	720
100MHZ	713	749
90MHZ	792	819

For other aerial designs check our website.

Thank you for purchasing this product!

We hope you will enjoy it as much as we do and remember to tell your friends about it. Please feel free to send us your comments to feedback@pcs-electronics.com. For tech support please send email to techsupport@pcs-electronics.com

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