

Kingray

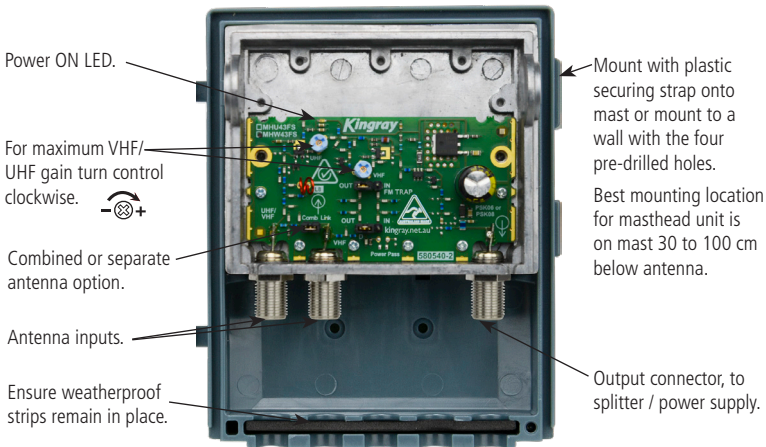
Specialists in TV Signal Amplification

MHW43FS

FULLY SHIELDED MASTHEAD AMPLIFIER

Thank you for selecting an Australian designed and built masthead amplifier.

This Kingray masthead amplifier is engineered to amplify VHF & UHF TV Signals whilst filtering 4G/LTE & 5G signals to maximise interference rejection.



INSTALLATION

Kingray masthead amplifiers have several built-in filters for interference rejection. The inclusion of low band and LTE/4G filtering in this model is designed to provide maximum interference rejection.

In addition, this model includes filters for amateur radio and pager frequencies as well as a switchable FM radio filter.

To configure the amplifier, please follow Fig 1 below.

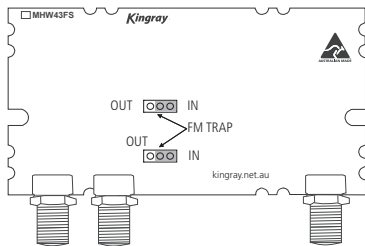


Fig 1

Combined or Separate Antenna Option

When using a combination VHF/UHF antenna, make sure the link is on (DEFAULT) and the left hand input is used. For separate UHF and VHF antennas, remove link and use the left hand input for UHF, the middle input for VHF.

Please follow Fig 3.

FM Filter

To eliminate FM radio interference; make sure both jumper links are on the 'FM TRAP IN' (DEFAULT).

To amplify FM radio signals, set both jumper links to 'FM TRAP OUT'. Please follow Fig 2 below.

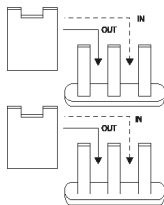


Fig 2

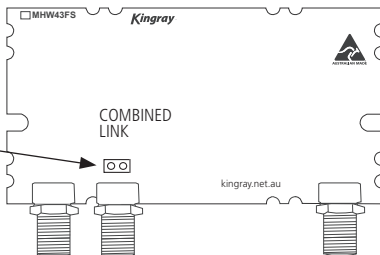
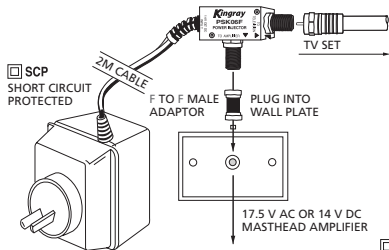
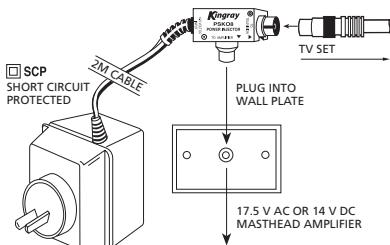


Fig 3

POWER SUPPLY OPTIONS



PSK06F & PSK08F



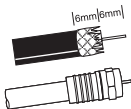
PSK06 & PSK08

TECHNICAL ADVICE

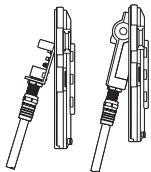
1. **Check** there is no earth braid touching the centre conductor on the coaxial cable.
2. **Is there more than one outlet?** Check the splitter box, the power supply must be connected to the coaxial outlet that feeds the AC/DC leg of the splitter box to pass power to the head unit. (Check if LED is on in the amplifier).
3. **Is there now too much signal causing an overload effect?** Try turning down the gain controls on the masthead unit, or select a lower gain amplifier.
4. **There is a white line moving through the picture:** Try a PSK06 14 V DC power supply.

Please see diagrams below for installation tips.

Bare back cable with a cable stripper or Stanley knife.

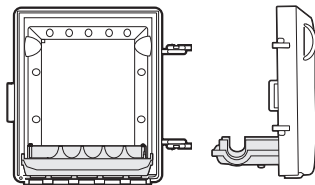


Slide on F connector and crimp or use a twist on connector.



The MHW43FS can pivot to easily access connectors.

The lid can be inserted into the plastic outer cover during installation.



SPECIFICATIONS

Frequency Range	FM/VHF: 88-230 MHz (FM TRAP OUT POSITION) VHF: 174-230 MHz (Default) UHF: 520-694 MHz (Default)	Gain Control Range 35dB Models	VHF: Tilt control 16 – 12dB UHF: 10dB
Max Gain 35dB Models	VHF: 27-35dB UHF: 43dB	Suitable Power Supplies	PSK08 & PSK08F PSK06 & PSK06F
Output Figure	108dB DIN45004B @ (-60dB IMR)	Pager Filter	-25 dB @ 148 MHz and 158 MHz
Noise Figure	VHF: < 3dB UHF: < 2.5dB	FM Filter	-25dB @ 88-108 MHz
		Band 1 Filter	-30dB @ 44 MHz

STANDARD COMMUNICATIONS CONTRACT WARRANTY AGAINST DEFECTS

This warranty against defects is given by GME Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7. This warranty statement only applies to products purchased in Australia. Please contact your local GME distributor for products sold outside of Australia. Local distributor details at www.gme.net.au/export.

1. Consumer guarantees

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects

- 2.1 This warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.
- 2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
- 2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited

- (a) in the case of goods we supply, to any one of the following as we decide -
- (i) the replacement of the goods or the supply of equivalent goods;
 - (ii) the repair of the goods;
 - (iii) the cost of repairing the goods or of acquiring equivalent goods;
- (b) in the case of services we supply, to any one of the following as we decide -
- (i) the supplying of the services again;
 - (ii) the cost of having the services supplied again.

- 2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.
- 2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.
- 2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.
- 2.7 Send your claim to:
GME Pty Ltd.
PO Box 96, Winston Hills, NSW 2153.
Tel: (02) 8867 6000, Fax: (02) 8867 6199
Email: servadmin@gme.net.au

2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to you, and reimburse you for your reasonable expenses of sending your warranty claim to us.

3. What this warranty does not cover

3.1 This warranty will not apply in relation to:

- (a) goods modified or altered in any way;
- (b) defects and damage caused by use with non GME products;
- (c) repairs performed other than by our authorised representative;
- (d) defects or damage resulting from misuse, accident, impact or neglect;
- (e) goods improperly installed or used in a manner

contrary to the relevant instruction manual; or
(f) goods where the serial number has been removed or made illegal.

4. Warranty period

4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

Product Type	Warranty Period
Kingray Masthead Amplifiers	3 years



ISO 9001:2015
AU9710906
List of certified
characteristics available
at www.sgs.com



☎ 1300 463 463 ↗ kingray.net.au

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