



Kingray MDA22V Shielded and Non Shielded F Type Masthead Distribution Amplifiers Installation Guide

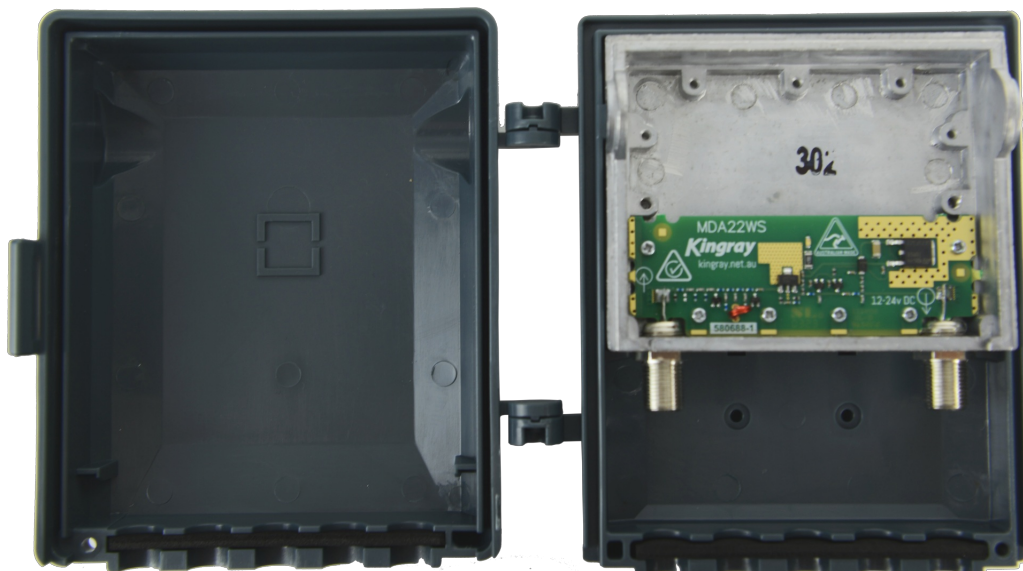
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Kingray MDA22V Shielded and Non Shielded F Type Masthead Distribution Amplifiers



Product Information

The MDA22V/MDA22U/MDA22WS are masthead distribution amplifiers designed and built in Australia. These amplifiers are suitable for digital TV distribution solutions. They are available in both shielded and non-shielded versions.

The MDA22 series is based on convergent technology, providing a low noise figure and high output performance. This makes it ideal for installations in problem reception areas. The amplifiers can be used as masthead amplifiers or distribution amplifiers and are effective in our digital environment.

Here are the specifications for each model:

Model	Frequency	Gain	Noise Figure	Output Figure	Return Loss	Supply Voltage	Inputs
MDA22V	174-230 MHz	22 dB	10 dB	1	12 to 14V DC	1	
MDA22U	520-694 MHz	22 dB	12 to 14V DC	1	1	12 to 14V DC	
MDA22WS	174-694 MHz	22 dB	12 to 24V DC	1	1	12 to 24V DC	

Note: Recommended power supply is PSK06 or PSK06F.

Product Usage Instructions

To install the masthead amplifier, follow these steps:

1. Mount the amplifier onto a mast using the polypropylene securing strap or mount it to a wall using the four pre-drilled holes. The best location for the masthead unit is on the mast, 300mm to 1m below the antenna.
2. Ensure the weatherproof strips remain in place.
3. Connect the antenna input to the amplifier.
4. Check that the power ON LED is lit, indicating power is present.
5. Connect the output connector to a splitter or power supply.
6. If using a power supply unit, place it at a television outlet or a remote location. Run a low voltage cable from the power supply to the amplifier head via the output.
7. Use F type connectors for the amplifier.
8. If necessary, strip the cable using a cable stripper or Stanley knife.
9. Slide on an F connector and crimp or use a twist-on connector.
10. If required, use adaptors depending on the wall plate installed and the model of the power supply used.

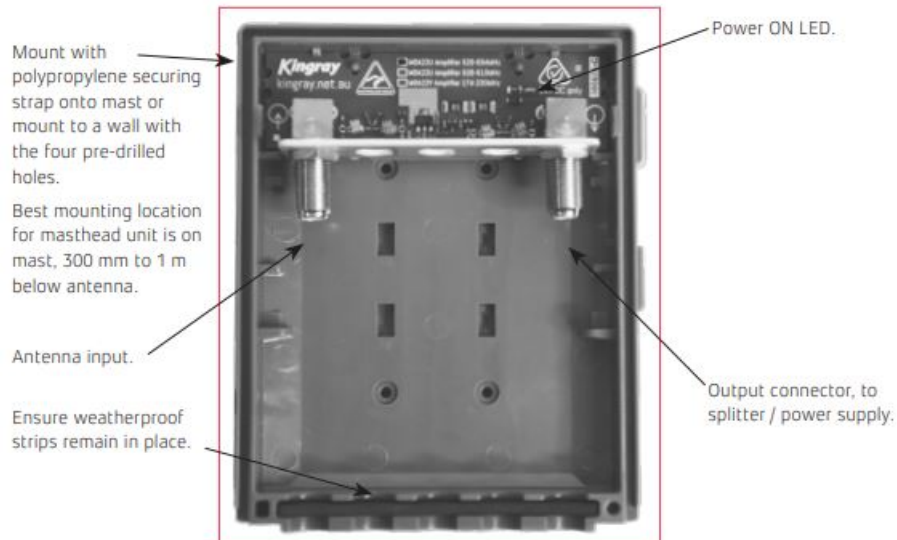
Technical Advice:

1. To check if power is reaching the amplifier, verify if the LED is lit.
2. Ensure the orientation of the injector on the power supply is correct.
3. If there are multiple outlets, 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.

For more information or support, please refer to the GME contact details provided in the warranty section.

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

PRODUCT OVERVIEW



GENERAL INFORMATION

- The MDA22 amplifier series is based on a new concept of convergent technology. The characteristics of the IC selected provide a very low noise figure and an output figure that surpasses most distribution amplifiers hence the name Masthead Distribution Amplifier (MDA).
- The MDA22 Series are multipurpose amplifiers that are ideal for our digital environment.
- Whether the units are used as a Masthead or Distribution Amplifier the low noise figure, capacity for multiple channels with low distortion and a high output provides a solution for all installations and is proven especially effective in problem reception areas.

SPECIFICATIONS

MODEL	MDA22V	MDA22U	MDA22WS
Frequency	174-230 MHz	520-694 MHz	174-694 MHz
Gain	22 dB	22 dB	22 dB
Noise Figure	<2.5 dB	<2.5 dB	<2.5 dB
Output Figure	113 dB @ -60 dBIMR Din 45004 B	113 dB @ -60 dBIMR Din 45004 B	113 dB @ -60 dBIMR Din 45004 B
Return Loss	>10 dB	>10 dB	>10 dB
Supply Voltage	12 to 14V DC	12 to 14V DC	12 to 24V DC
Inputs	1	1	1

*Recommended Power Supply PSK06 or PSK06F

INSTALLATION

- The head of the amplifier may be mounted outside on the pole under the antenna or in the roof. The amplifier requires F type connectors.
- The power supply unit (FIG.1) is placed at a television outlet, or at a remote location, a low voltage then runs up the cable to power the head remotely, via the output. There are no controls inside the housing, however there is an LED that when on, indicates power is present.
- Bare back cable with a cable stripper or Stanley knife (FIG.2).
- Slide on F connector and crimp or use a twist-on connector (FIG.3).
- Note: Depending on the wall plate installed and model power supply used, you may need to use adaptors.

FIG.1

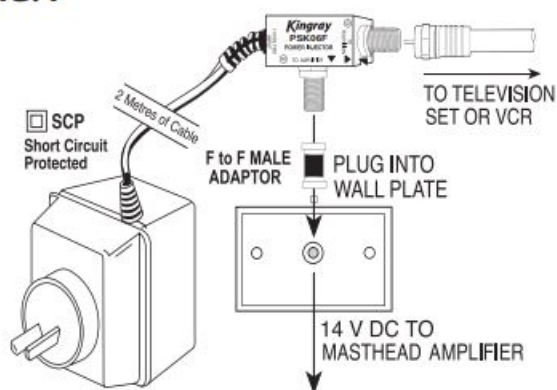


FIG.2

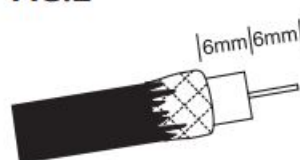
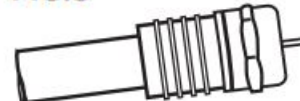
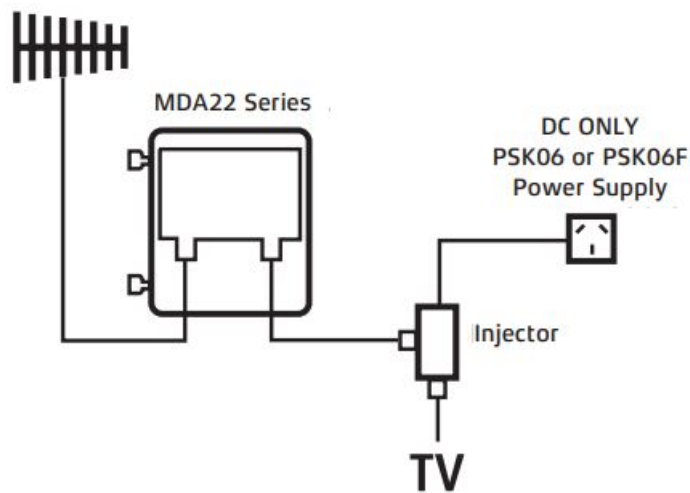


FIG.3



TECHNICAL ADVICE

1. Check if the power is reaching the amplifier, if it is, the LED will be lit.
2. Check the orientation of the injector is correct on the power supply.
3. 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).



GME 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.

Consumer guarantees

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.
2. To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

Warranty against defects

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. 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.
3. To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited
in the case of goods we supply, to any one of the following as we decide –
 1. the replacement of the goods or the supply of equivalent goods;
 2. the repair of the goods;
 3. the cost of repairing the goods or of acquiring equivalent goods;
 in the case of services we supply, to any one of the following as we decide –
 1. the supplying of the services again;
 2. the cost of having the services supplied again.

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.
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.
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.
7. Send your claim to: GME Pty Ltd.
17 Gibbon Rd, Winston Hills, NSW 2153 Australia. Tel: (02) 8867 6000, Fax: (02) 8867 6199 Email: servadmin@gme.net.au
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.

What this warranty does not cover

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.

Warranty period

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




A division of GME Pty Ltd.

Head Office: PO Box 96, Winston Hills, NSW 2153, Australia.

New Zealand: PO Box 58446 Botany, Auckland, 2163, NZ. T: (09) 274 0955.

All other international enquiries email: export@gme.net.au

Documents / Resources

	<p>Kingray MDA22V Shielded and Non Shielded F Type Masthead Distribution Amplifiers [pdf] Installation Guide</p> <p>MDA22V, MDA22U, MDA22WS, MDA22V Shielded and Non Shielded F Type Masthead Distribution Amplifiers, MDA22V, Shielded and Non Shielded F Type Masthead Distribution Amplifiers, Non Shielded F Type Masthead Distribution Amplifiers, Masthead Distribution Amplifiers, Distribution Amplifiers, Amplifiers</p>
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References

-  [Kingray Australia](#)

[Manuals+](#),