



LG302, LG303, LG304, LG305

With circuit protection and digital bypass

USER GUIDE

Warning! It is not recommended to expose this device to moisture or drop it.
To disconnect this device, simply unplug from the mains supply.

Introduction

USER INSTRUCTIONS

The OXi-GOLD range of boosters/amplifiers are designed to improve the picture and sound quality of TV and FM radio signals and distribute these signals around your home.

Unlike many boosters/amplifiers OXi-GOLD amplifiers have an integrated by-pass designed to allow the user to control SKY™ digital receivers from a second TV without additional equipment apart from a Link device and a SKY™ or compatible universal remote control.

For added safety the OXi-GOLD range has built-in short circuit protection on each individual output. Should a short circuit be detected the OXi-GOLD range of boosters/amplifiers will only shut down that output with the short circuit; the other outputs will continue to function as normal.*

*Please Note: If a short circuit occurs on any one output, only that output will be shut down. This assists you (or the installer) in locating the short circuit path quickly and easily. Once the short circuit has been corrected the output will reset upon reconnection.

The boosters/amplifiers are easy to install and fully automatic in operation, meaning that no user adjustment is required. The low running cost permits continuous operation. These instructions highlight the most popular applications, please retain for future reference.

These boosters/amplifiers are mains powered and come complete with a fitted main plug. They are for indoor use only and should be used in accordance with these instructions.

SET UP 1: TV & FM Radio Distribution

1 Connect the UHF aerial download to the IN UHF socket of the amplifier and the FM aerial download to the IN VHF socket.
2 Connect your TVs and Radio Tuners to any of the amplifier TV sockets in any combination.

All TVs and Tuners will receive the appropriate amplified signal.

SET UP 2: Video Cassette Recorder (VCR) Playback

1 Connect your UHF aerial download to the RF input socket of the VCR.
2 Connect the RF output lead of the VCR (usually connected direct to the TV) to aerial amplifier IN UHF socket.

TV and VCR playback signals will now be available to any TV you now connect to the boosters/amplifier TV sockets. For FM connection see SET UP 1.

N.B. Some older VCR's will not pass TV signals whilst in playback, this can sometimes be remedied by contacting your local dealer for advice.

SET UP 3: Satellite Receiver Signal Distribution

If you wish to distribute signals from a satellite receiver (this setup is devised to allow SKY™ digital receivers to be operated remotely but is also applicable to non SKY™ receivers):

1 Connect your UHF aerial download into the VCR's UHF aerial input. (If you do not have a VCR plug the UHF aerial download in the satellite receiver's UHF aerial input and ignore all further references to VCRs)
2 Connect the VCR RF output lead to the aerial input on the satellite receiver.
3 Connect the satellite receiver via the scart outputs to the VCR and TV.
4 Connect an output lead from the satellite receiver RF1 output to the aerial input on your main TV.
5 Connect an output lead from the satellite receiver RF2 output to the aerial amplifier IN UHF socket.

UHF TV, VCR playback and satellite receiver signals will now be available to your main TV and to any you now connect to the amplifier TV sockets. For FM connection see SET UP 1.

To operate your SKY™ digital receiver from one of the connected TVs you will now need to install a SKY™ compatible Link device.

N.B. It may be necessary to retune the output channel of your VCR when used with a

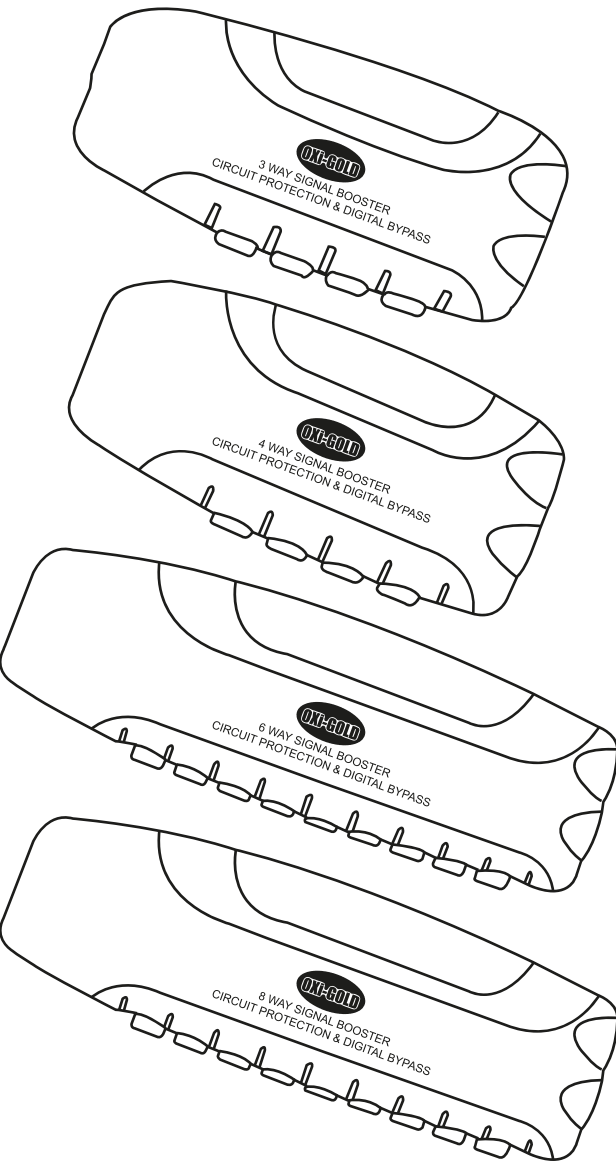
satellite receiver. Consult your VCR guide for more details.

SET UP 4: TV/VCR/DTT (Digital Terrestrial Television) distribution
1 Connect your UHF aerial download to the aerial input on the DTT receiver and connect your FM aerial download (if applicable) to the IN VHF socket on the booster/amplifier.

2 Connect an aerial fly-lead from the aerial output on your DTT receiver to the aerialinput on your VCR.
3 Connect an aerial fly-lead from the aerial output on your VCR to the IN UHF socket on the booster/amplifier.
4 Connect your TVs and FM tuners to any of the booster/amplifier TV sockets in any combination. Once connected, you can tune each television to traditional terrestrial channels, a channel for VCR viewing and a channel for DTT viewing.

If you are receiving poor DTT reception then connect the booster/amplifier before your DTT receiver to boost the signal strength. In most cases, poor DTT reception can only be cured by acquiring a suitable aerial (see troubleshooting) or waiting until DTT coverage improves in your area.

N.B. Only one DTT channel can be viewed at any one time without the use of additional DTT receivers.



Troubleshooting

If you are still experiencing reception problems after the installation of your Signal Booster/Amplifier, please refer below.

Analogue Terrestrial TV

Snowy Picture

A faint grainy or snowy picture is generally caused by a weak signal. Normally the TV transmitter will be a long way away. A possible improvement could be made by reducing the aerial download losses, installing a high gain aerial and by adding a low noise masthead amplifier. In a small number of cases, a snowy picture can also be caused by a TV signal that is too strong.

'Herringbone' Pattern

'Herringboning' is generally caused by too strong a TV signal or possibly by a local high power transmitter such as CB, amateur or taxi radio, your TV sound may be affected as well as the picture. Using an attenuator will reduce the gain of an aerial signal and improve the overall picture.

Digital Terrestrial Television

Unlike analogue TV signals that can still be viewed under weak signal strength conditions, with digital terrestrial signals blocking/freezing and/or loss of digital picture and sound can be caused by insufficient digital signal and carrier to noise ratio.

Similarly blocking and even a completely blank screen with no sound can result if the input signal to the set top box is too high. The digital cliff refers to the rapid change from the picture and sound being perfect, to disappearing altogether.

When interconnecting equipment and to get the best carrier to noise place the digital terrestrial television set top box as the first item in the signal path followed by any video or satellite receiver.

Fitting a high gain wideband roof aerial may also improve the reception and signal quality.

Digital signals are generally immune to ghosting or multiple reflections. They remain perfectly receivable under conditions where an analogue signal would suffer ghosting.

Digital Satellite Television

With digital reception, a weak signal or incorrectly aligned dish will cause the picture and sound to block or disappear. Check both the alignment of the dish and skew angle of the LNB.

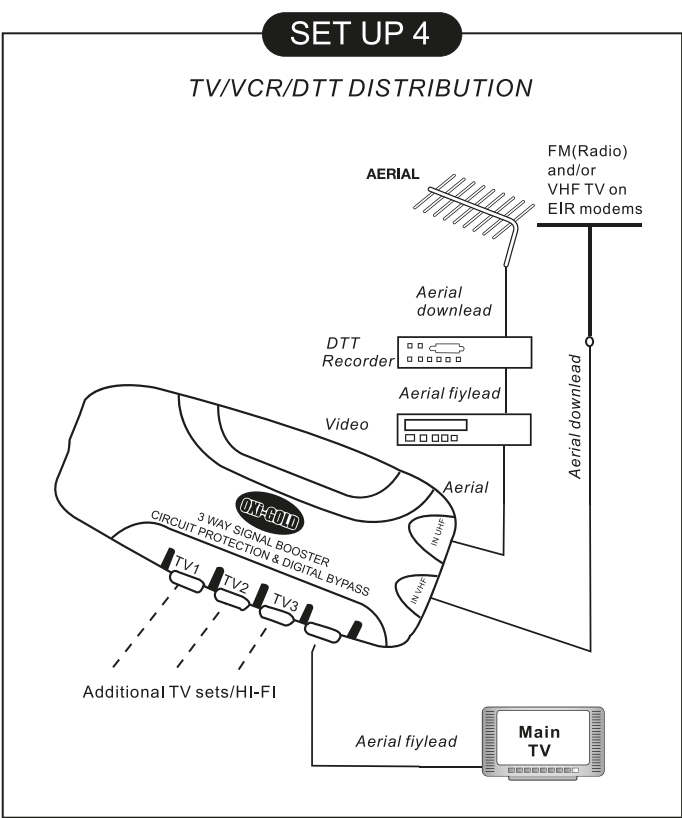
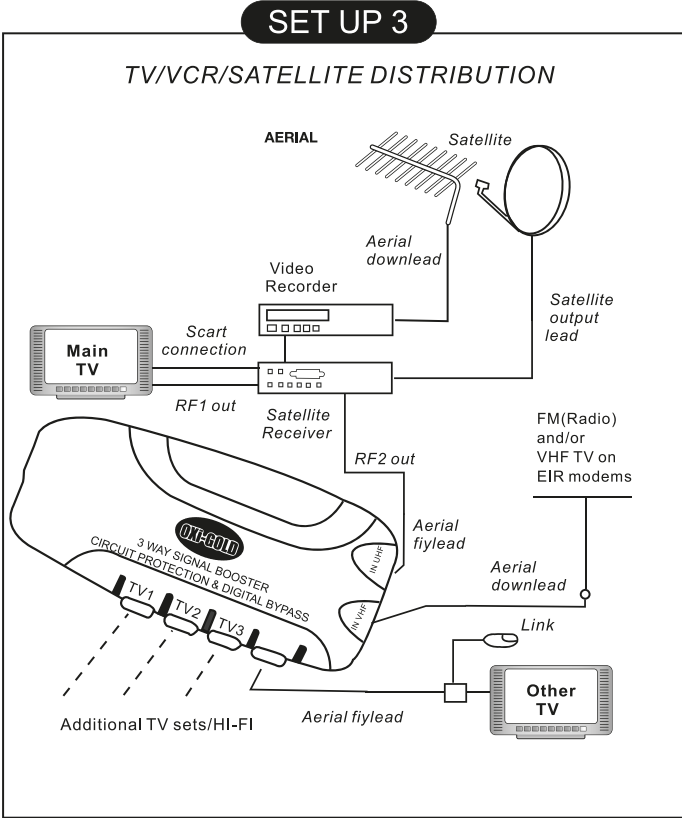
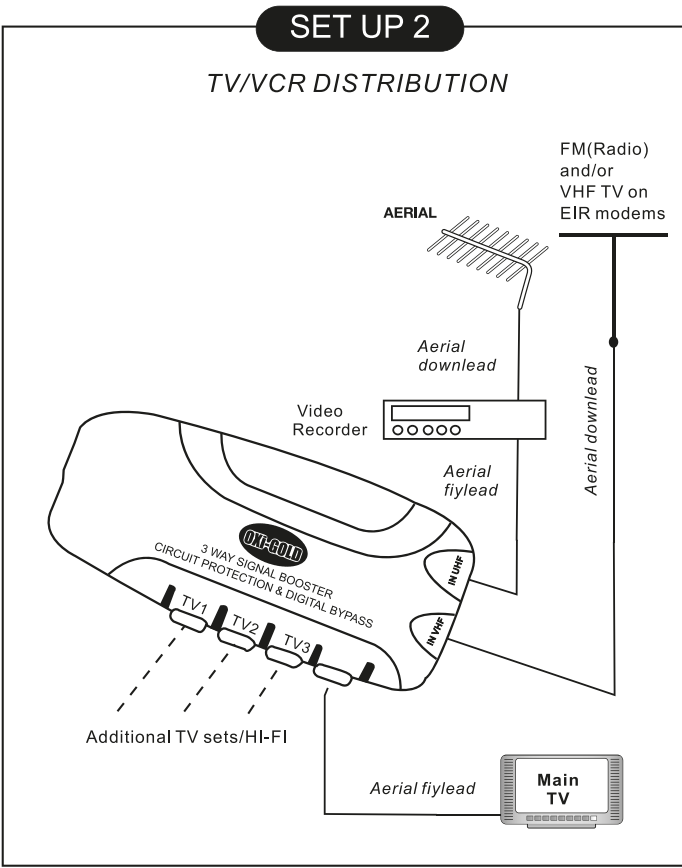
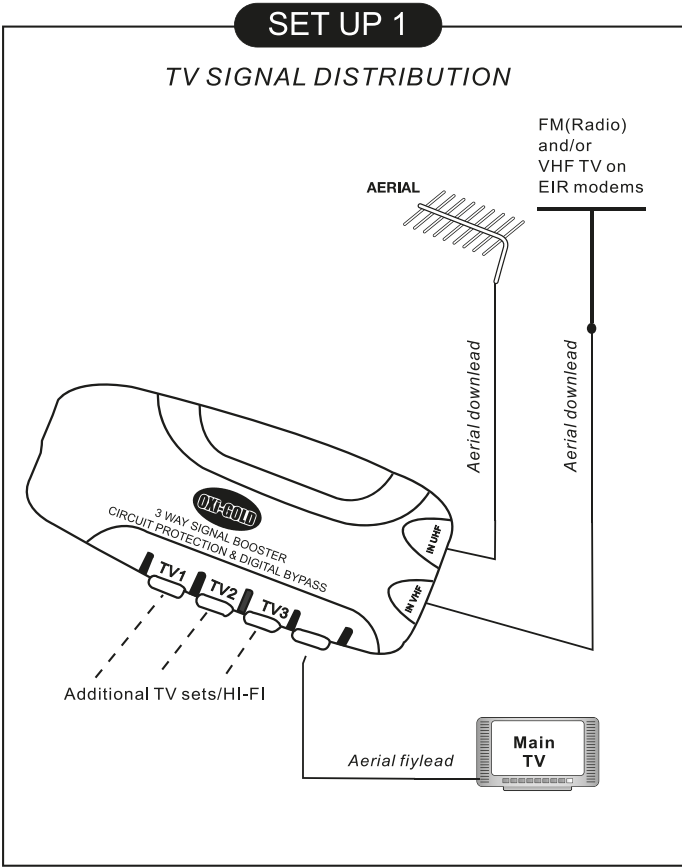
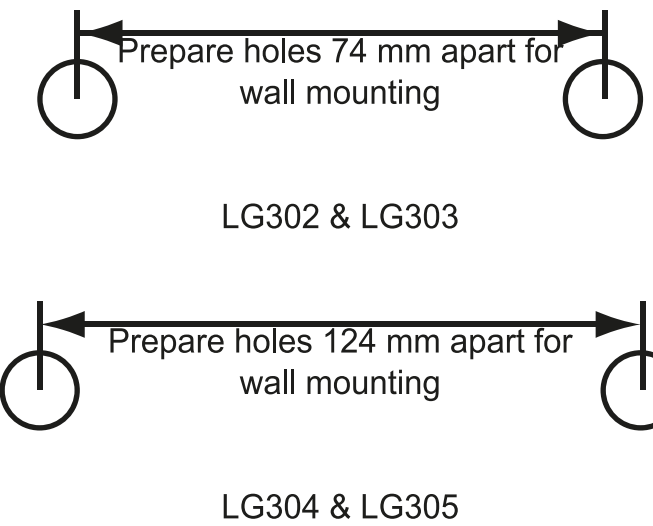
Intermittent Connections

Make sure all RF cable to connector joints are tight (both inner and outer) including all flyleads and outlet plate connections.

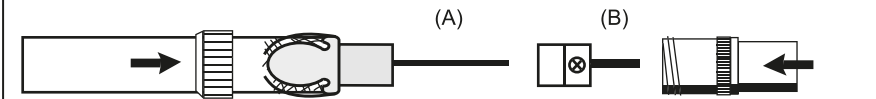
Important Caution

If the appliance is not used, please unplug. The main plug is used to disconnect the device, the disconnected device will remain readily operable.

This plug and device are not waterproof, keep dry and do not splash liquids on it at any time.



IMPORTANT



For maximum operation, make sure the inner earth core of the aerial (A) is touching the pin (B) on any of the aerial leads



Make sure that the output from the satellite receiver is retuned from frequency RF68 to RF24 to get the best reception in the other rooms if using an optional digital bypass. Please refer to your own satellite systems instruction manual for details on how to change the RF frequency.

If using Sky™, you will need to turn on the power for 'RF2' output on the digital receiver, to do this simply refer to the below guide.

Using your Sky™ handset, select SERVICES menu, followed by [4] [0] [1] [SELECT] [4], then step down to 'RF Outlet Power', set it to ON, and finally step down to 'Save Settings' and press SELECT.

Technical Information

Frequency range	UHF 470-860MHz VHF 47-230MHz
Gain full out put	12dB
Gain	9-12dB per split
Noise	< =3.5dB
Isolation loss	23dB
Weight	495g
Dimensions(wxdxh)	177x85x46mm

LG302 (3 Way) & LG303 (4 Way)

Safety Advice

Fitted mains plug

This appliance is fitted with a standard 3 Amp fused plug. If this is not suitable, refer to the instructions below.

Changing the plug

If the fitted mains plug is not suitable for the socket outlets in your home, it should be cut off and a new compatible plug fitted.

Wiring the new plug:

Any instructions supplied with the new plug MUST be followed. The brown wire must be connected to the Live (L) terminal of the plug and the blue wire to the Neutral (N) terminal. Neither wire should be connected to the earth terminal (E) of a 3 pin plug (This appliance does not require an earth connection as it is double insulated.) Ensure that the cord grip in the plug is correctly used and has clamped the sheath of the cord firmly.

Caution:

The old plug should be disposed of promptly since it would be dangerous if plugged into a live socket.

Frequency range	UHF 470-860MHz VHF 47-230MHz
Gain full out put	15dB
Gain	12-15dB per split
Noise	< =3.5dB
Isolation loss	23dB
Weight	675g
Dimensions(wxdxh)	273x89x48mm

LG304 (6 Way) & LG305 (8 Way)

Changing the fuse

If a new plug is a fused type, the fuse fitted should be rated at not more than 3 Amp. If the fuse of the fitted plug needs to be changed this should also not be more than 3 Amp. Always refit the plastic fuse carrier when replacing the fuse.

SAFETY

Suitable only for indoor installations
Before starting any electrical work, always switch off at the mains.
If in doubt consult a qualified electrician

The environment

When your booster comes to the end of its life or you have chosen to change it, please do not dispose of it with your normal household waste or by using a local amenity tip. When you buy a replacement take this fitting to your retailer for them to recycle. Regulations (WEEE Directive effective July 2006) will oblige retailers & some recycling centres to take in Waste from Electrical & Electrical Equipment.



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