HALL SOUNDFIELD SYSTEM
40SFSYS33

ASSEMBLY
GUIDANCE NOTES

AND
USER INSTRUCTIONS

Connevans Limited

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR Telephone: 01 737 247571
help@connevans.com websites: Information – www.connevans.com Online shopping – www.DeafEquipment.co.uk

CONNEVANS LIMITED

HALL SOUNDFIELD SYSTEM
40SFSYS33

ASSEMBLY GUIDANCE NOTES

Upon receipt check all the packages for damage and check the contents,
You should receive the following:

Main Equipment.

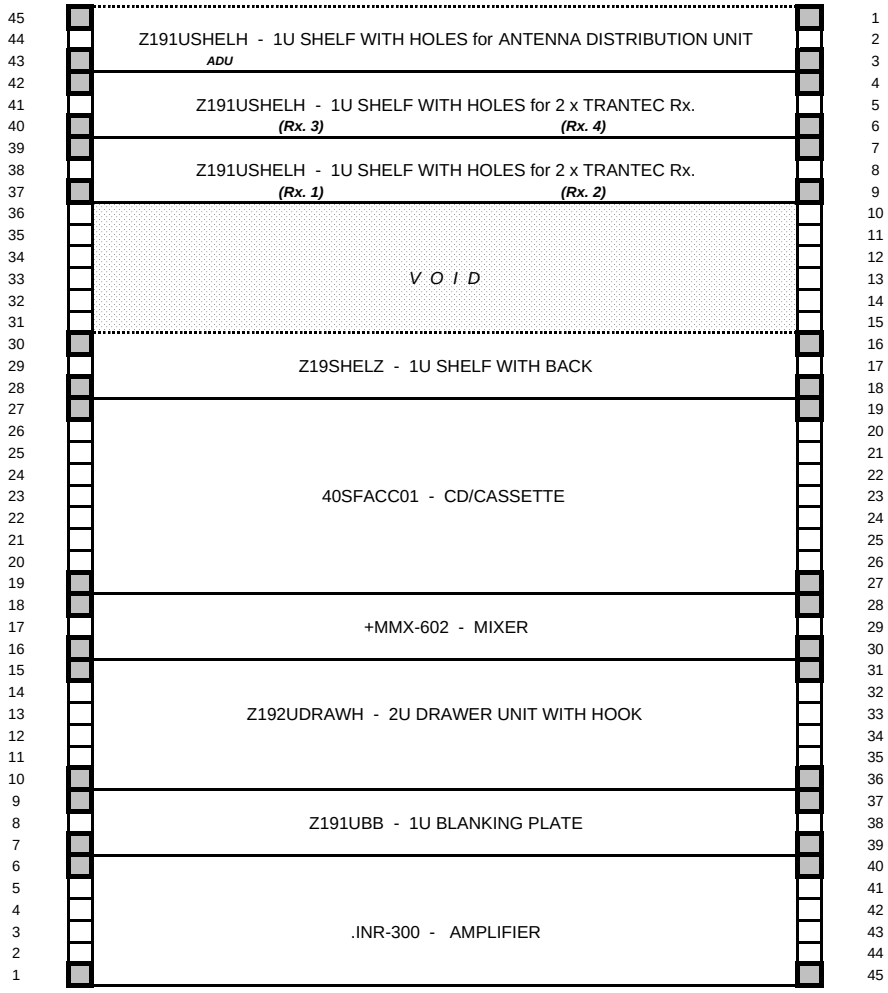
1 x 15U Wall mounting cabinet (Z1915UWALL)
3 x 1U shelf with holes (Z191USHELH)
1 x 1U Shelf with back (Z191USHELZ)
1 x 1U Blanking Plate (Z191UBB)
1 x Microphone Line Mixer (+MMX-602)
1 x Stereo Power Amplifier (.INR300)
1 x Marantz CD & Cassette player (40SFACC01)
6 x Loudspeakers (.JBLCONT5)
6 x Speaker mounting brackets (.JBLMTC51)
6 x Loudspeaker Safety Chains + screw eye (Z0SAFE02)
2 x Handheld Radio mic. (Complete) (.S4.5MD)
2 x Radio mic. Belt Pack Transmitter unit. (.S4.5L)
2 x Collar Microphone for beltpack unit. (40SFAMICT)
1 x Antenna Distribution Unit (.S4000ADU)
2 x Boom mic. stands (40SF*M07)
1 x 2U Lockable drawer unit – with hook. (Z192UDRAWH)

Accessories.

Marker Cable Ties (Packet of 20) (*F054BL)
Terminal Block (1 strip) (*F512)
Drum of Speaker Cable (100m) (*E627)
2 x Six-way mains extension block (*E200DA*)
6 x XLR Plug to XLR Socket lead. 700mm (XLRE.7MBK)
Stereo lead. 2 x Phono plugs to 2 x stackable Phono sockets (*A114F*)
2 x Microphone (butterfly) holder (*G129)
1 x Transmitter Stereo input adaptor for fmGenie (FMG81)
1 x Transmitter Stereo input adaptor for CRM-220 (2206S)
Stereo Lead. 3.5mm plug to 2 x Phono plug. 1200mm (*A121B*)
Stereo Lead. 2 x Phono Plug to 2 x Phono Plug. (*A114*)
1 x fmGenie neck harness and pouch (FMG621)
1 x Quad battery charger (22684)
8 x Rechargeable batteries (2267NMH)
4 x M8 x 10 Rawlbolts (ZFRB0810)
19" Panel captive nuts and screws (M6 x 25mm) 10 Pkts of 4 (Z19FIX1)
1 x Antenna mounting plate assembly (A0SF2AA)
1 x Under Trantec to tray spacer kit (10 x screws and 10 x Spacers).
Set of labels for Mixer front panel. Set of 3 Self Adhesive Pads (for Stereo Input Adaptor)

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR
Tel 01737 247571 **Minicom/Textphone** 01737 243134 **Fax** 01737 223475

40SFSYS33 - HALL SOUNDFIELD SYSTEMS
ARRANGEMENT OF EQUIPMENT



Viewed from the front

POSITIONING FOR CAPTIVE NUTS

THERE MUST ALWAYS BE A GAP OF 1U OR 2U ABOVE
THE AMPLIFIER, TO ASSIST CONVECTION VENTILATION.

THE TRANTEC RECEIVERS ARE SECURED TO THE SHELF WITH SCREWS THAT REQUIRE THE USE OF SPACERS. PLEASE CHECK THE ACCESSORY PACK FOR THE NECESSARY PARTS.

fig. 1

Installation.

Decide on where the 15U wall cabinet will be fixed.

- **Things to consider**.

- At the front or the back of the Hall, but with a clear view of the Hall – for the Aerials.
- Leave enough clear space so that the door can be opened freely.
- Away from large metal objects (E.g. Steel beams and column supports Etc.).
- Not immediately above or too near to a radiator or room heater.
- Near to an existing 13A Mains Power socket (*or you could have a new spur fitted*).
- Low enough so that you can get to the equipment controls and the drawer unit.
- Not so low that it becomes a hazard (with or without the door open).
- Please consider <u>all</u> of the uses for the Hall, and consult with other members of staff.

Remove the front door and the side panels from the wall cabinet (*take care as both the door and side panels are heavy*). Fix the antenna mounting plate assembly (as shown in the drawing **fig. 2**). Attach the two antennae to the sockets on the mounting plate and arrange them so that they are angled outwards to the left and right – approx 30 degrees away from vertical (**\ /**).

Having the antennae not touching and not vertical and is essential, because the transmitters operate on two channels so as to avoid creating radio reception 'dead spots' around the Hall.

Temporarily fix the paper 'drilling template', supplied with the wall cabinet, at your chosen position and drill four holes, 14mm x 60mm, where indicated.

Remove the template and fix the cabinet to the wall with the four 'Rawlbolts' supplied.

Decide on the location of the loudspeakers and fix them to the wall.

Remember, when installing speakers for a Hall Soundfield System, try not to "think sound", but try to "think light". Imagine that your aim is to give an even spread of *light* throughout the Hall, and place the loudspeakers accordingly.

Using the drum of speaker cable supplied connect up the loudspeakers, as per the notes and drawing supplied, and bring the wires back to the wall cabinet, for connection to the output terminals on the rear of the amplifier, through the cable entry point in the antenna mounting plate.

Assemble the four radio microphone receivers and the Antenna Distribution Unit (ADU) on to their trays, using the screws and spacers provided in the accessory kit, and as per the drawings – see **fig. 3** and **fig 4.**

Using the captive nuts and screws from the accessory pack, install the equipment as per the drawing supplied (**fig. 1**). Remember that there <u>must</u> be a gap of 1U or 2U above the amplifier (at the base of the cabinet) in order to assist with convection ventilation.

Once the equipment is installed connect it together, using the cables supplied, as per the drawings **fig. 5** and **fig 6**.

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR
Tel 01737 247571 **Minicom/Textphone** 01737 243134 **Fax** 01737 223475

Carefully remove the four 'knockout' cable entry pieces from the top of the wall box.
Slacken off the nuts and screws, pre-fitted to the antenna mounting plate (do not remove), and place the plate in to the hole.
Assemble the nuts screws and washers as shown below.

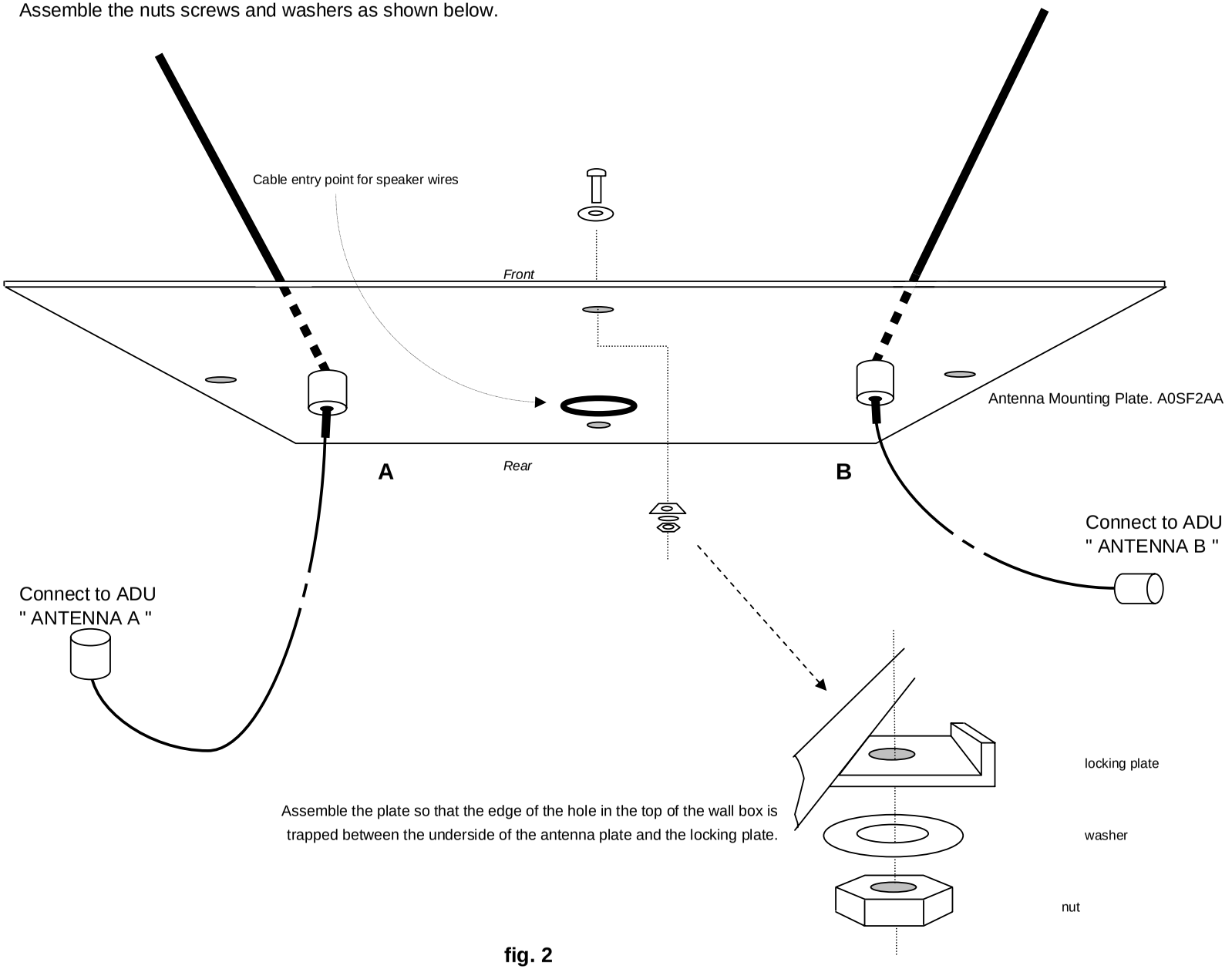
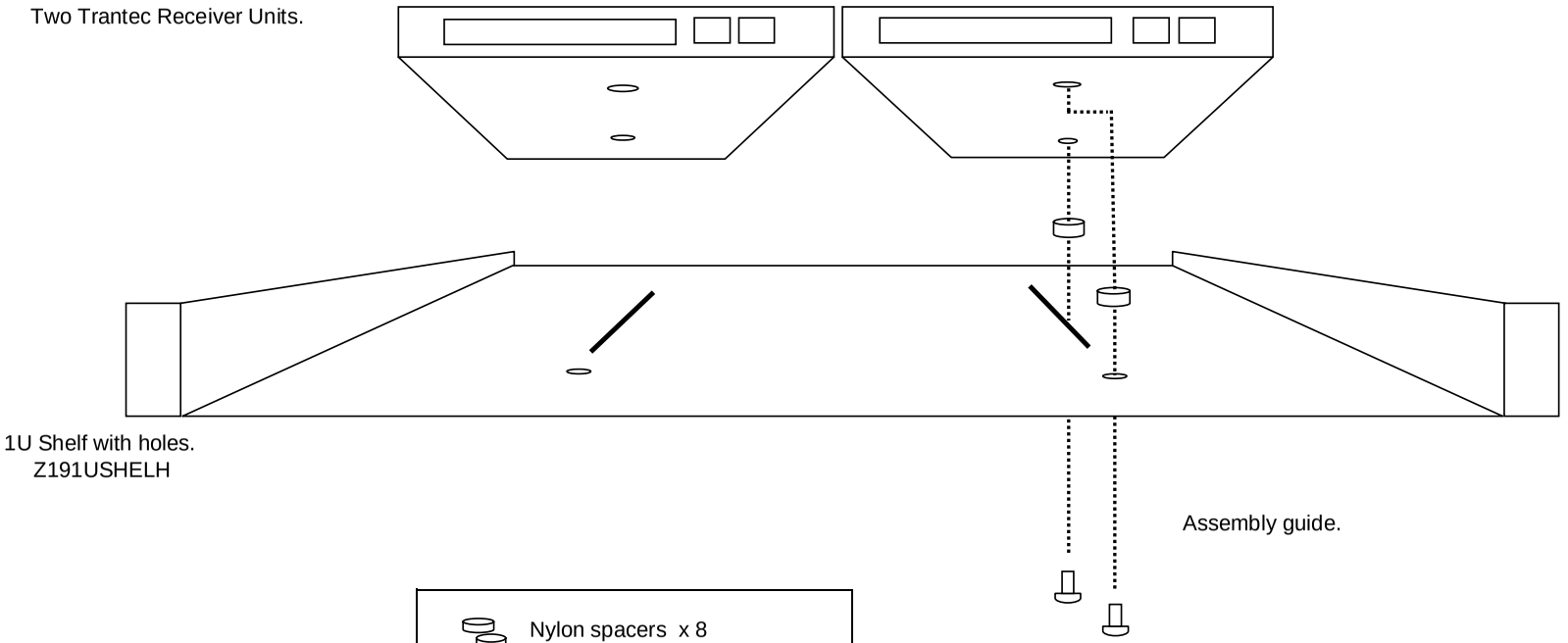


fig. 2

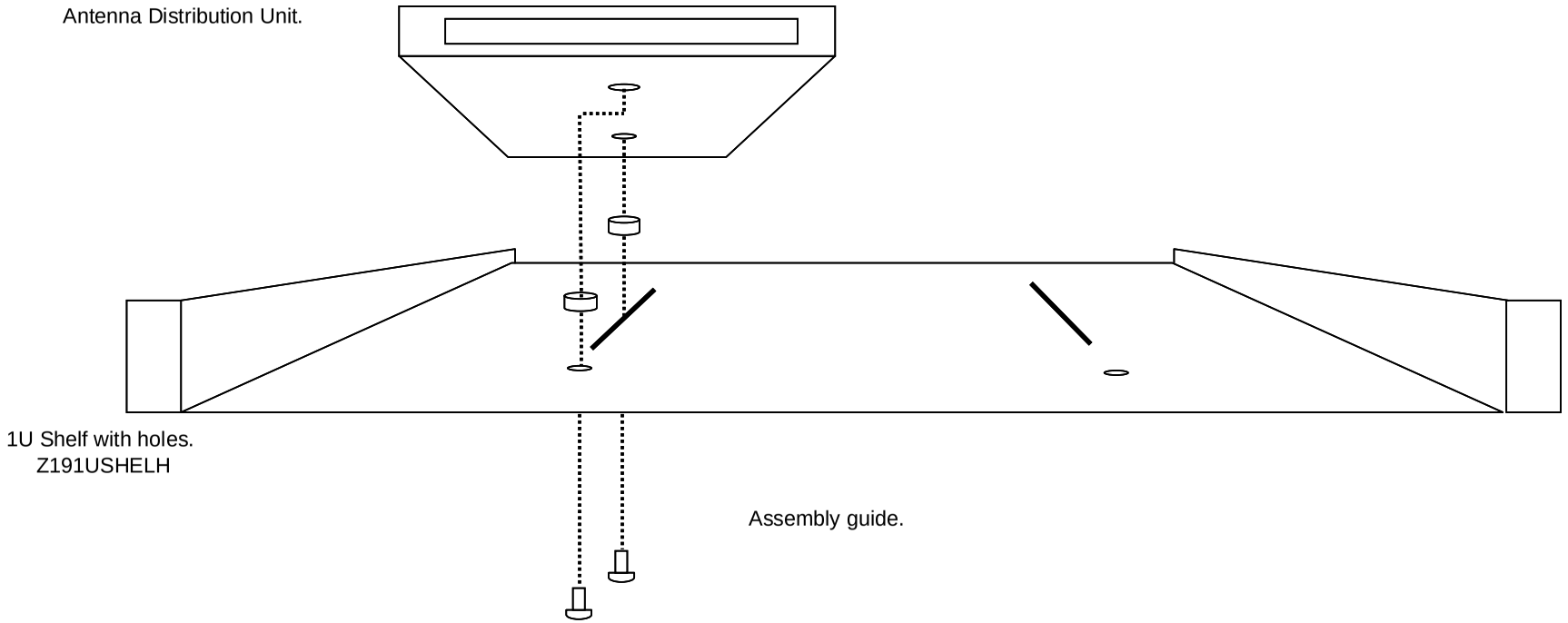
GUIDE FOR FITTING THE RADIO MICROPHONE RECEIVERS TO THE SHELF.



	Nylon spacers x 8
	M4 x 12 Pan head screws x 8
Z191USHELH 1U Shelf, with holes x 2	

fig. 3

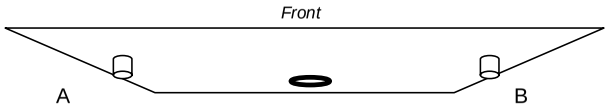
GUIDE FOR FITTING THE ANTENNA DISTRIBUTION UNIT TO THE SHELF



	Nylon spacers x 2
	M4 x 12 Pan head screws x 2
Z191USHELH 1U Shelf, with holes. x 1	

fig. 4

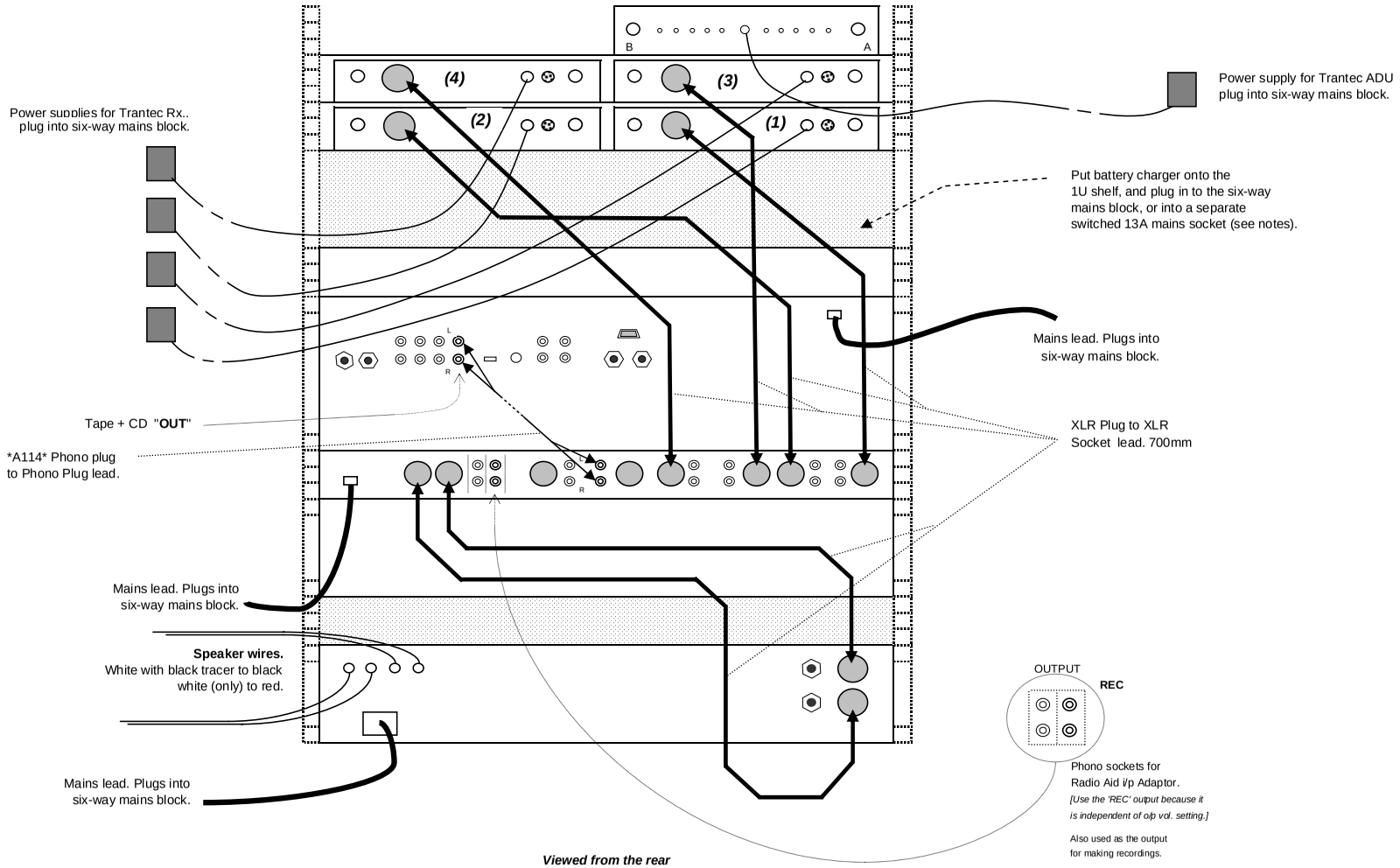
40SFSYS33 - HALL SOUNDFIELD SYSTEMS
INTERCONNECTION OF EQUIPMENT



Antenna mounting plate assembly

As viewed from in front of the cabinet.

For connections between the Radio mic' receivers and the Aerial Distribution Unit (ADU) please see ***fig. 6***



Power supplies for Trantec Rx.. plug into six-way mains block.

Power supply for Trantec ADU plug into six-way mains block.

Put battery charger onto the 1U shelf, and plug in to the six-way mains block, or into a separate switched 13A mains socket (see notes).

Mains lead. Plugs into six-way mains block.

Tape + CD "**OUT**"

A114 Phono plug to Phono Plug lead.

XLR Plug to XLR Socket lead. 700mm

Mains lead. Plugs into six-way mains block.

Speaker wires.
White with black tracer to black white (only) to red.

Mains lead. Plugs into six-way mains block.

OUTPUT

REC

Phono sockets for Radio Aid i/p Adaptor.
[Use the 'REC' output because it is independent of o/p vol. setting.]

Also used as the output for making recordings.

See Notes

Viewed from the rear

fig. 5

Connecting the Radio mic. receiver Aerials to the
Antenna Distribution Unit.

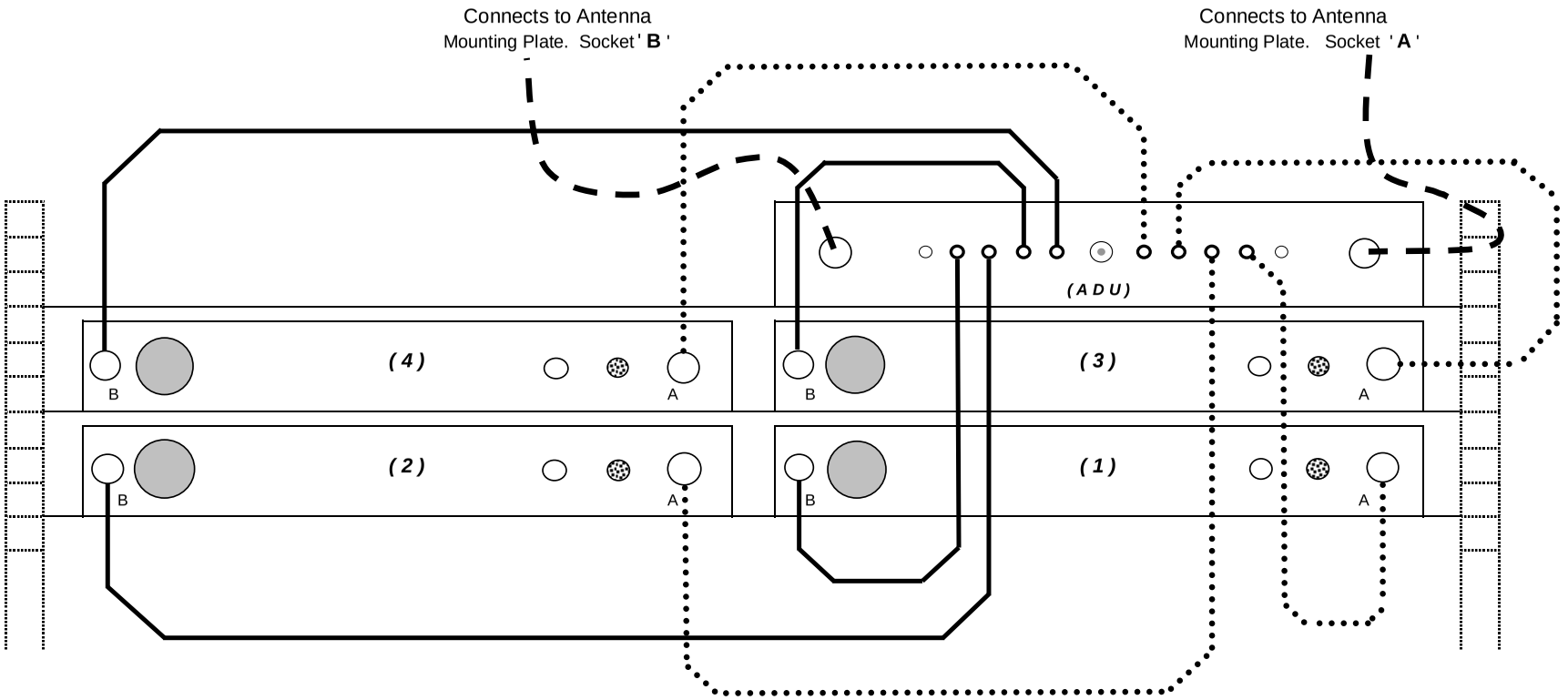


fig. 6

Follow the manufacturers instructions for the 'Trantec' radio microphones to select four different frequencies and to enter an identity (or user name) – up to eight characters - for each one. (E.g. HAND ONE and HEAD ONE *or, simply,* ONE, TWO, THREE Etc.).

Once all the equipment has been installed and wired up, together with the wires from the loud speakers, you can replace the two side panels and the door – although you may prefer to wait until the system has been fully set-up and tested.

Front Panel Controls and Setting-up the system

The controls on the front panel may be used to set the volume, and to 'balance' the sound from the radio microphones and the CD/Cassette player – so that they sound 'even' or 'level'.

A set of self adhesive labels has been supplied so that you may identify each control and which input or microphone they operate.
Please see the drawing (**fig. 7**) with details on which control is which.

Once you have got the system set up and working do not be afraid to move any of the user adjustable controls in order to obtain the best results for YOUR hall.

Although the amplifier, mixer and the CD/Cassette have their own on/off switches the two Trantec receivers and the battery charger do not. So, it is quite in order, and much easier, to use the switch on the mains socket (*where the six-way mains blocks are plugged in*) as a 'master' on/off switch - for the whole system.

However, you will need to plug the battery charger in to a separate switched socket so that you may still charge the rechargeable batteries even when the system is not in use.

If there is no spare socket near to where the six way blocks are plugged in it should be a fairly straightforward matter to add another single, or preferably double, socket. An alternative to this would be to simply store the battery charger in the cabinet, and use it away from the cabinet to recharge the batteries.

If you want to use the system, and find that there are no charged batteries available for the radio microphones, it is quite in order to use Alkaline batteries as an alternative – and we would recommend keeping a stock of Alkaline batteries for just such an eventuality!

As a guide, you should find that you get approximately 8 to 10 hours use from a set of Alkaline batteries. A set of rechargeable batteries should last approximately 3 to 4 hours.

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR
Tel 01737 247571 **Fax** 01737 223475 **Minicom/Textphone** 01737 243134

Installing the direct input adaptor

for using the system together with CONNEVANS Radio Aids.

Decide if you are using **CRM-220** or **fmGenie** Radio Aids and select the appropriate direct input adaptor;

2206S for CRM-220 or FMG81 for fmGenie

- Locate and fix the selected input adaptor, using the sticky pads supplied and as shown in the drawing **fig. 8**

- From the accessory pack find the lead *A121B* - (Stereo 3.5mm Jack Plug to two Phono Plugs).

- Insert the Phono Plugs into the output terminals marked '**REC**' on the rear panel of the mixer. (see **fig. 5**)

- Bring the free end through to the side of the cabinet.

- Plug the 3.5mm Jack into the socket on the input adaptor.

The fixed lead from the input adaptor should be plugged into the socket marked '**Ext mic'** on the side of the Radio Aid **Transmitter**. Place the Transmitter into its pouch and hang the pouch from the hook provided on the front of the drawer unit.

Ensure that Radio Aid Transmitter aerial wire hangs freely and is not obstructed, so as to ensure a good signal.

Once the direct input adaptor has been installed and set-up it should not need any further adjustment and is, therefore, located away from the front panel controls (but it is still accessible – by removing the side panel – should you ever need to re-adjust it).

For further details on how to adjust the direct input adaptor you should refer to your fmGenie or CRM-220 Operating Instructions, together with the information leaflet supplied with the adaptor.

For those who might wish to record the output from their Soundfield system we supply an adaptor lead *A114F*

- Unplug the Transmitter i/p Adaptor lead from the 'REC' sockets at the back of the mixer and insert the stackable plugs, on the end of the adaptor lead.

- Replace the Phono plugs from the Transmitter i/p Adaptor lead into the sockets on the stackable plugs.

- Bring the other end of the recording lead through to the front of the cabinet to plug into the 'INPUT' sockets on your recorder.

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR
Tel 01737 247571 **Minicom/Textphone** 01737 243134 **Fax** 01737 223475

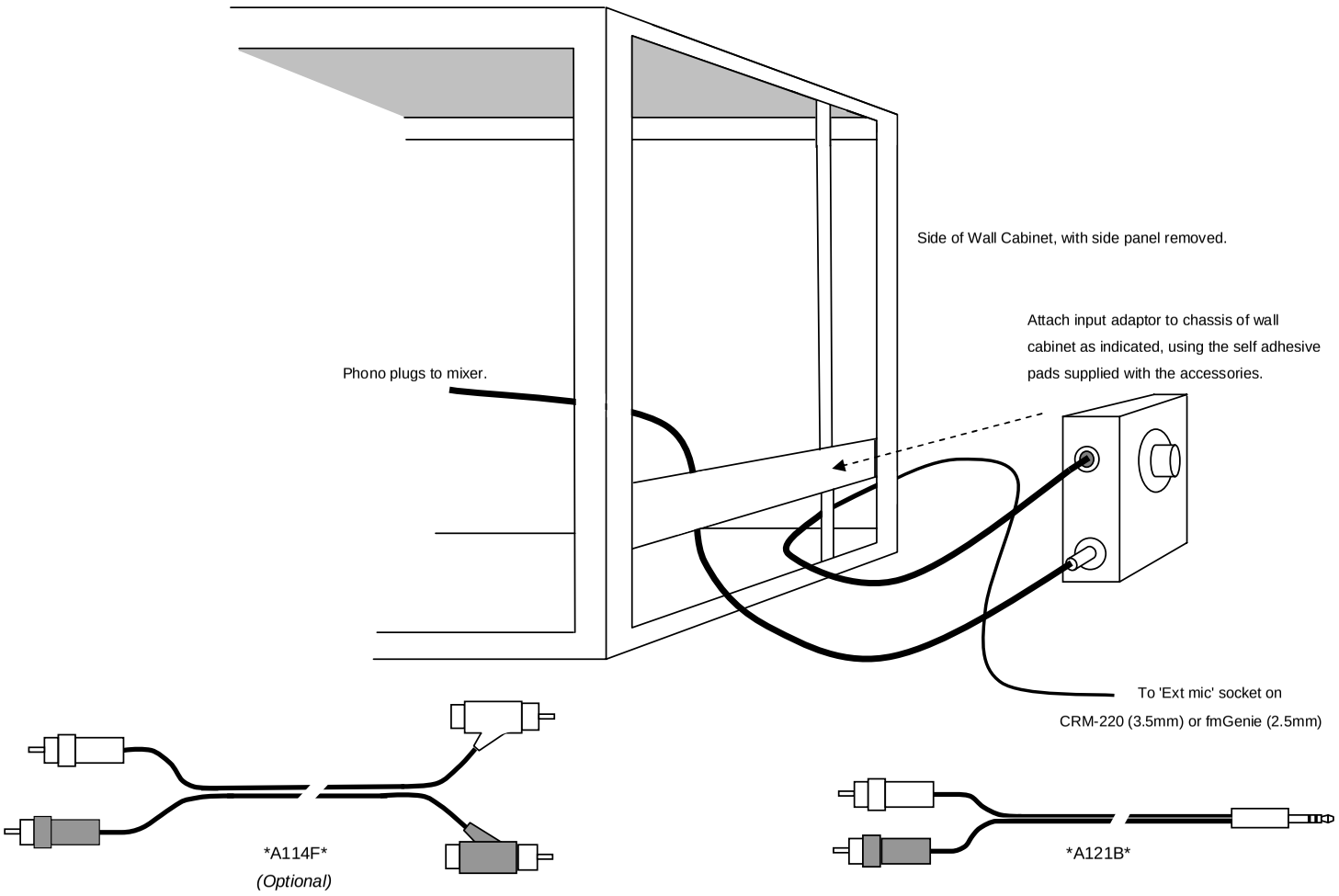

Side of Wall Cabinet, with side panel removed.
Attach input adaptor to chassis of wall cabinet as indicated, using the self adhesive pads supplied with the accessories.
Phono plugs to mixer.
To 'Ext mic' socket on CRM-220 (3.5mm) or fmGenie (2.5mm)
A114F
(Optional)
A121B

fig. 8

N O T E S

CONNEVANS LIMITED 54 Albert Road North, Reigate, Surrey RH2 9YR
Tel 01737 247571 **Minicom/Textphone** 01737 243134 **Fax** 01737 223475

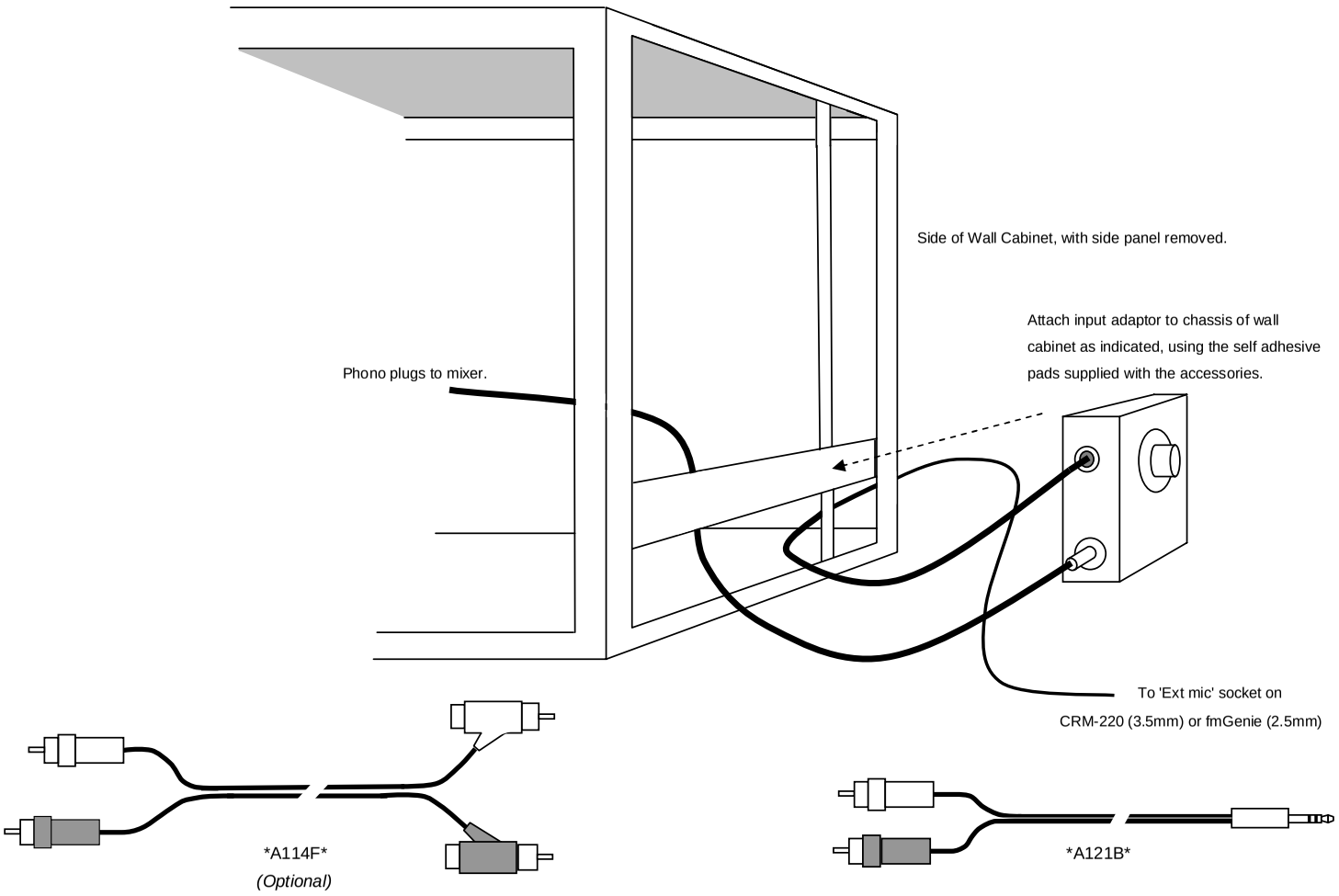
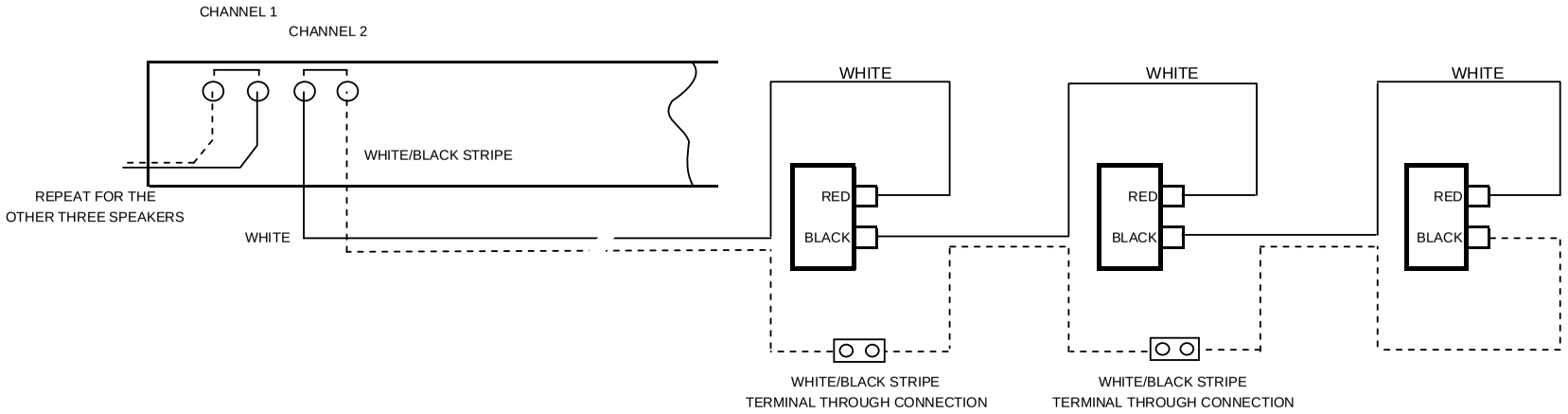
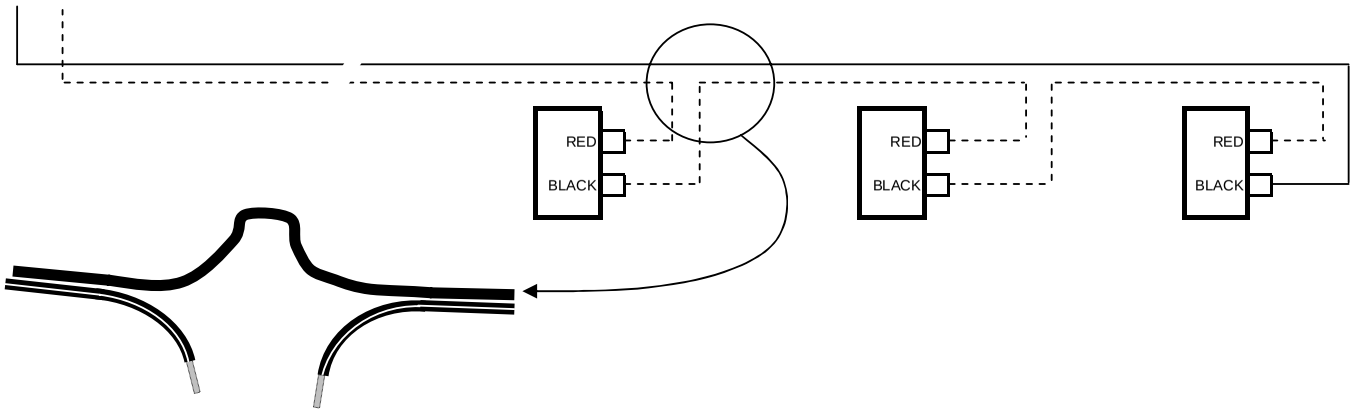

Side of Wall Cabinet, with side panel removed.
Attach input adaptor to chassis of wall cabinet as indicated, using the self adhesive pads supplied with the accessories.
Phono plugs to mixer.
To 'Ext mic' socket on CRM-220 (3.5mm) or fmGenie (2.5mm)
A114F
(Optional)
A121B

fig. 8

Wiring details for SIX speaker Hall Soundfield



THE WIRING SHOWN ABOVE IS THE RECCOMMENDED METHOD, AND 10A TERMINAL BLOCKS ARE SUPPLIED. HOWEVER, THE METHOD SHOWN BLOW IS ACCEPTABLE, BUT MORE PRONE TO ERRORS.



Rear of Aerial Distribution Unit