ALLEN & HEATH

MixWizard Series

WZ 14:4:2

SYS-LINK EXPANDER OPTION

This option connects a MixWizard WZ14:4:2 as a channel expander to a second A&H console already fitted with SYS-LINK with just one or two interconnecting cables.

Kit Part No: WZ1442-SL1

Single option to install SYS-LINK to one MixWizard WZ14:4:2 unit to allow interconnection to a second console already fitted with SYS-LINK.

Interconnecting cables not supplied.

For information on using SYS-LINK please refer to APPLICATIONS NOTE AP3221

FITTING INSTRUCTIONS

Publication AP3220

Issue 1 Jan 98

FITTING THE SYS-LINK EXPANDER OPTION

❶ CHECK THE CONTENTS :

Please carefully check the SYS-LINK circuit board assembly is the correct one for the console in which it is to be installed.

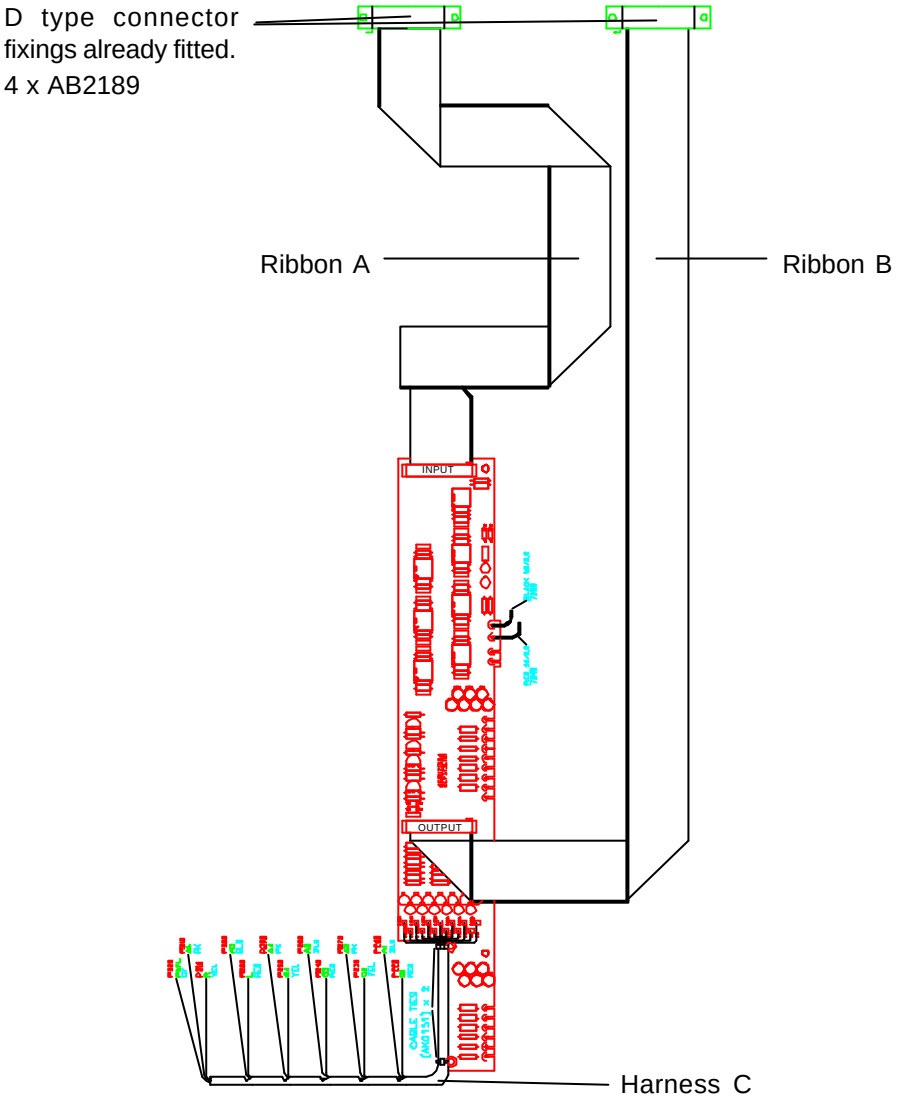


fig. 1

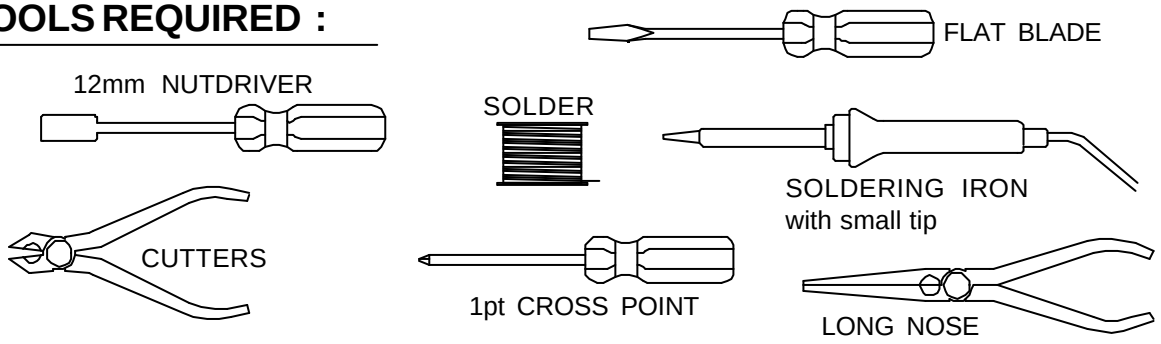
Contents:

1x SYS-LINK circuit board assembly with interconnecting harness and D type connector fixings already fitted.

1x SYS-LINK Fitting Instructions (AP3220)

1x SYS-LINK Application notes (AP3221)

❷ TOOLS REQUIRED :



❸ REMOVING THE REAR COVERS

Before beginning any service work, remove all power to the unit and disconnect any signal cables where necessary. The rotating connector module must be set for desk top operation to gain access to the cover. Ensure adequate lighting and use the correct tools.

Working from the front of the mixer remove screws and nuts (A) fixing the base cover to the front panel.

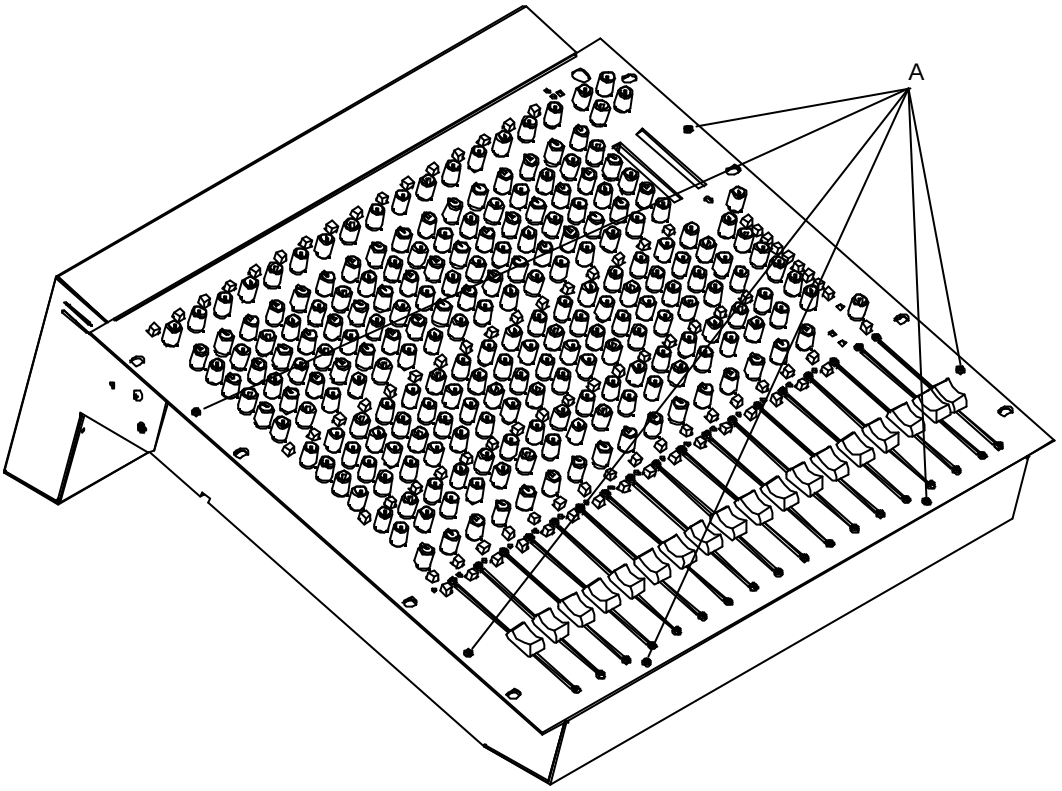


fig. 2

With the unit inverted, remove the 4 remaining screws (B) in the base cover and remove the base, then remove the 4 connector module cover screws (C) and remove the cover.

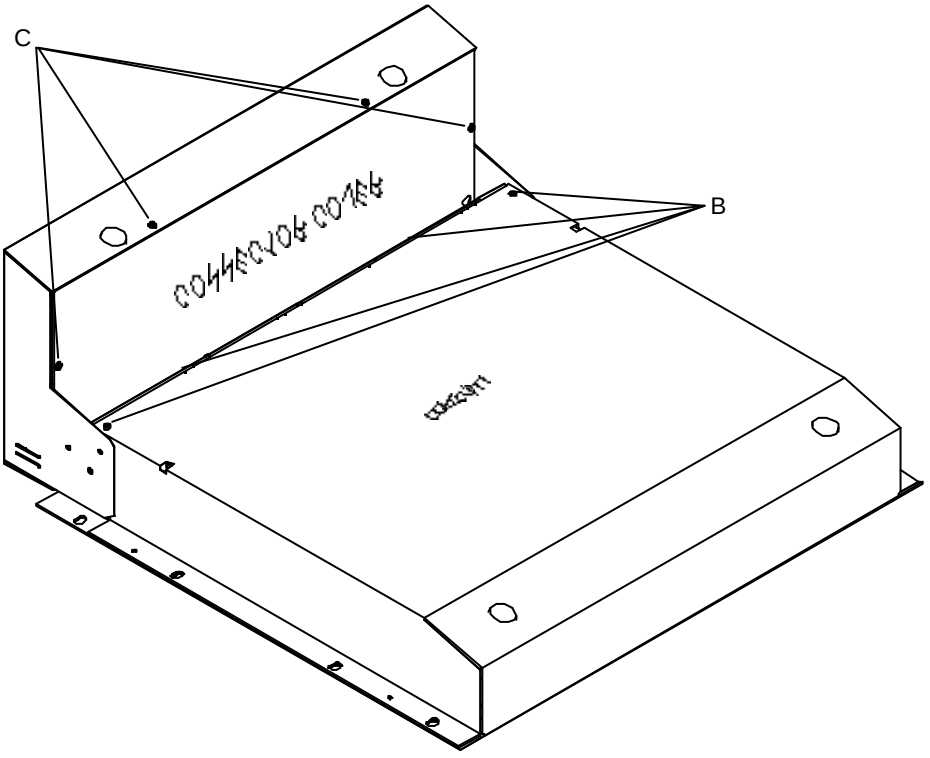
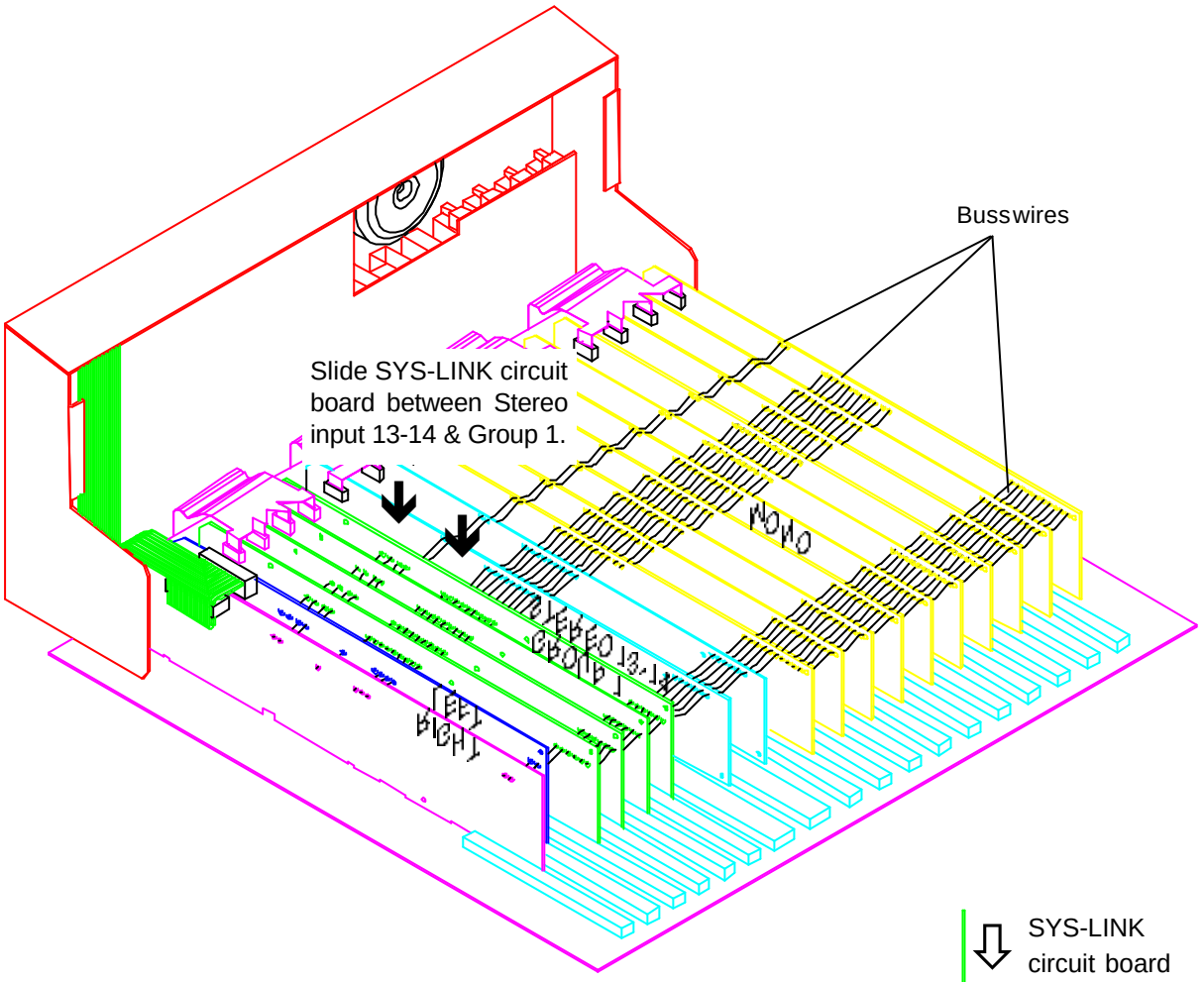


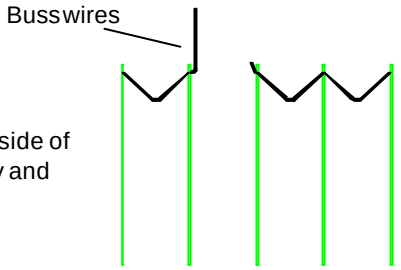
fig. 3

❹ FITTING THE SYS-LINK CIRCUIT BOARD ASSEMBLY

Locate Stereo input 13-14 circuit board assembly and Group 1 circuit board assembly. Cut the TC buss wires 5mm from the component side of the Stereo input circuit board assembly and bend the TC buss wires vertically.

Slide the SYS-LINK circuit board in between the Stereo input channel and Group 1circuit board assemblies. Take care not to damage the ribbon harnesses already connected to the circuit board.





Cut each wire 5mm from the component side of stereo input 13-14 circuit board assembly and bend wires vertically up.

fig. 4

❺ SOLDERING THE SYS-LINK HARNESS ASSEMBLY:

Refering to fig. 1, fig. 5 & fig.6, form harness C as shown and prepare the solder pads on the circuit boards with new solder to ease the soldering of the SYS-LINK wires.

Note, the wires are soldered to the trackside of the circuit boards and not the component side.

It is recommended that the wires in the SYS-LINK harness are soldered to each circuit board in the following order:

RIGHT PCB then LEFT then GROUP 4 then GROUP 3 then GROUP 2 and then finally GROUP 1 PCB.

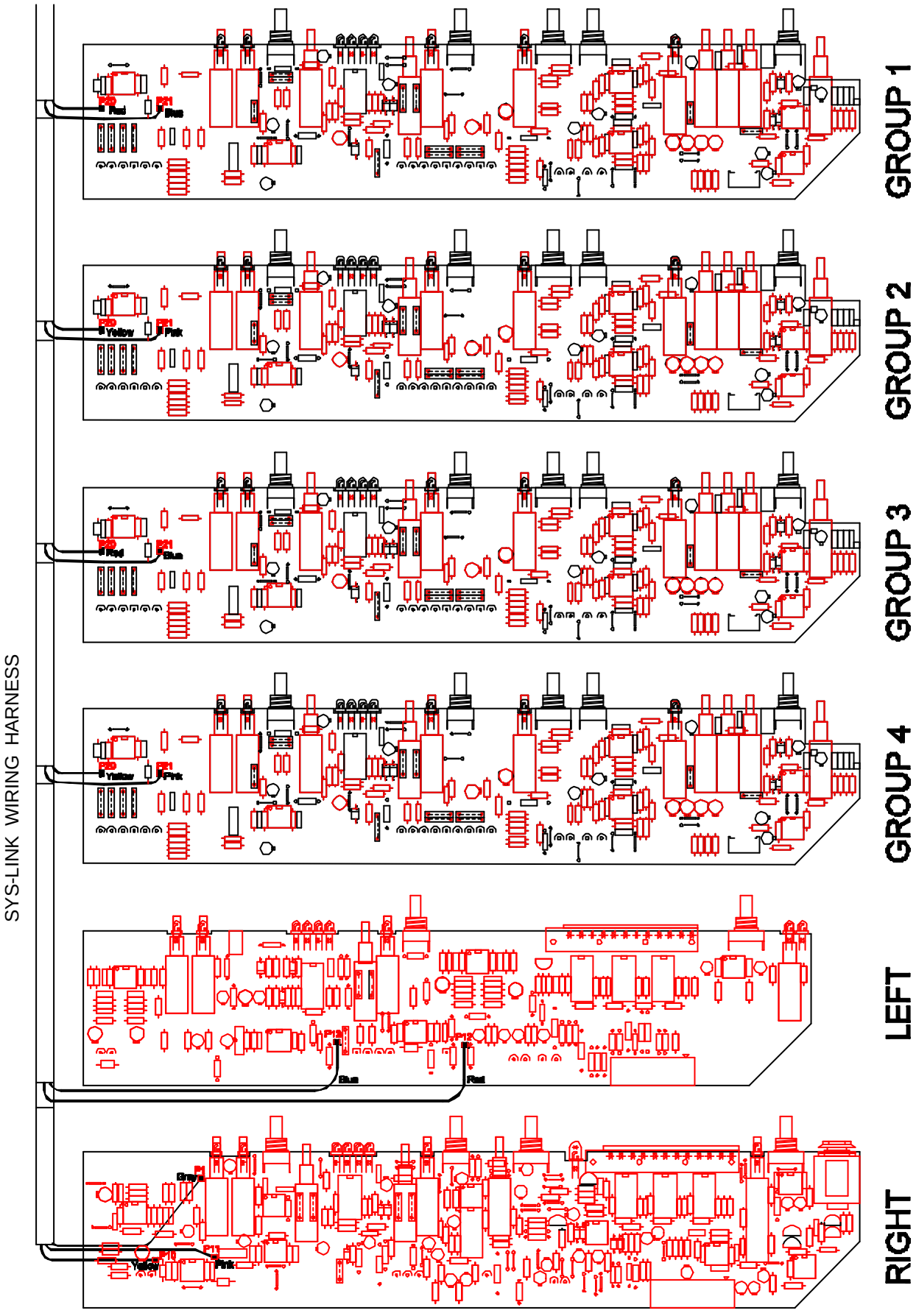
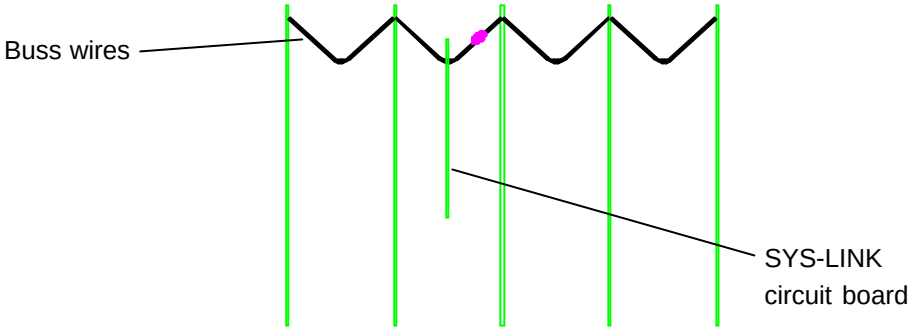

SYS-LINK WIRING HARNESS
GROUP 1
GROUP 2
GROUP 3
GROUP 4
LEFT
RIGHT

fig. 5

❼ SOLDERING THE SYS-LINK CIRCUIT BOARD ASSEMBLY:

Bend the cut vertical TC buss wires back down and resolder them.



Lift the SYS-LINK circuit board assembly and locate the TC buss wires into the slots on the circuit board. Make sure the SYS-LINK circuit board assembly is located centrally between the Stereo input circuit board and the Group circuit board assemblies.

Check the TC buss wires are located in the correct slots and carefully solder each one.

Solder red and black wires as shown in fig. 6.

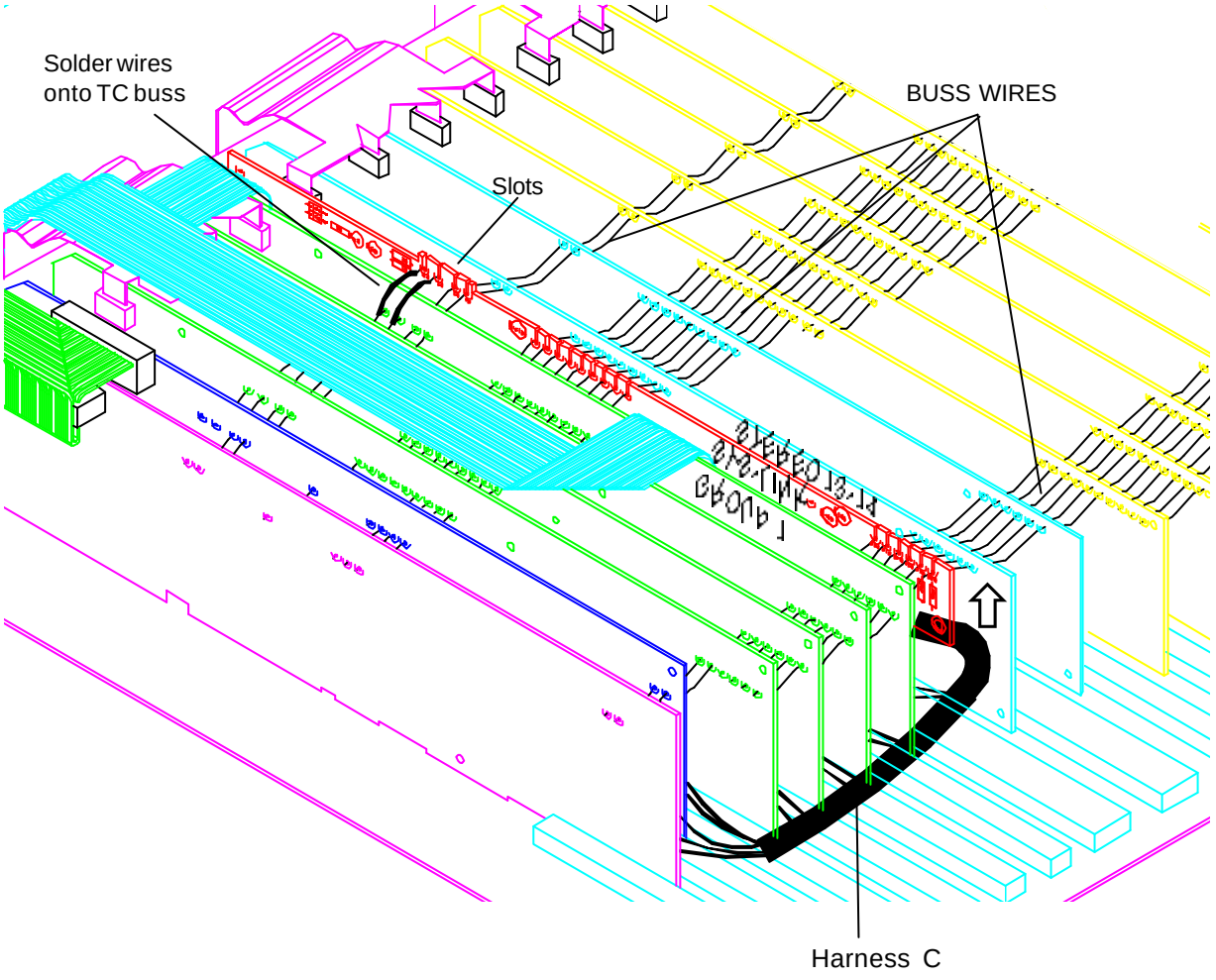


fig. 6

❽ FITTING THE SYS-LINK CONNECTORS TO THE REAR PANEL

To fit the two SYS-LINK D type connectors to the rear panel of the connector module it will be necessary to partially remove the the connector circuit board assembly from the rear panel.

Working from the rear of the console remove screws (A) fixing the XLR and phono connectors to the panel and using a 12mm Nutdriver or pliers, remove jack nuts (B). Also remove the 2 screws indicated.

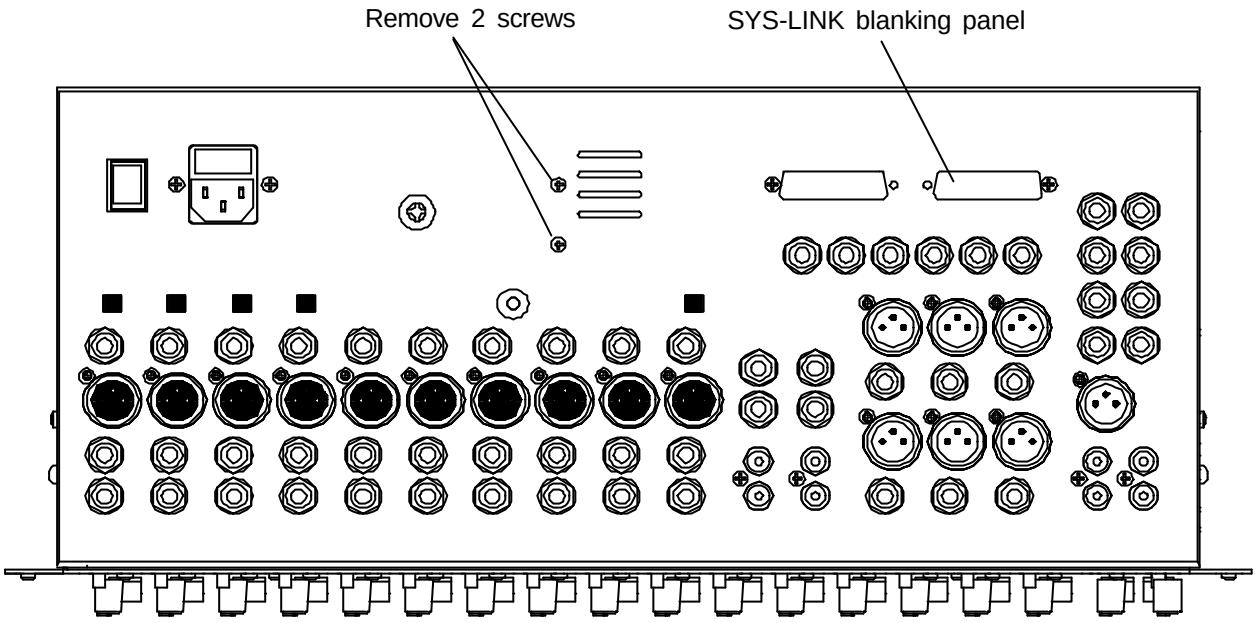


fig. 7

Carefully release the connector circuit board from the rear panel and lean it out just enough to gain access to the SYS-LINK blanking panel.

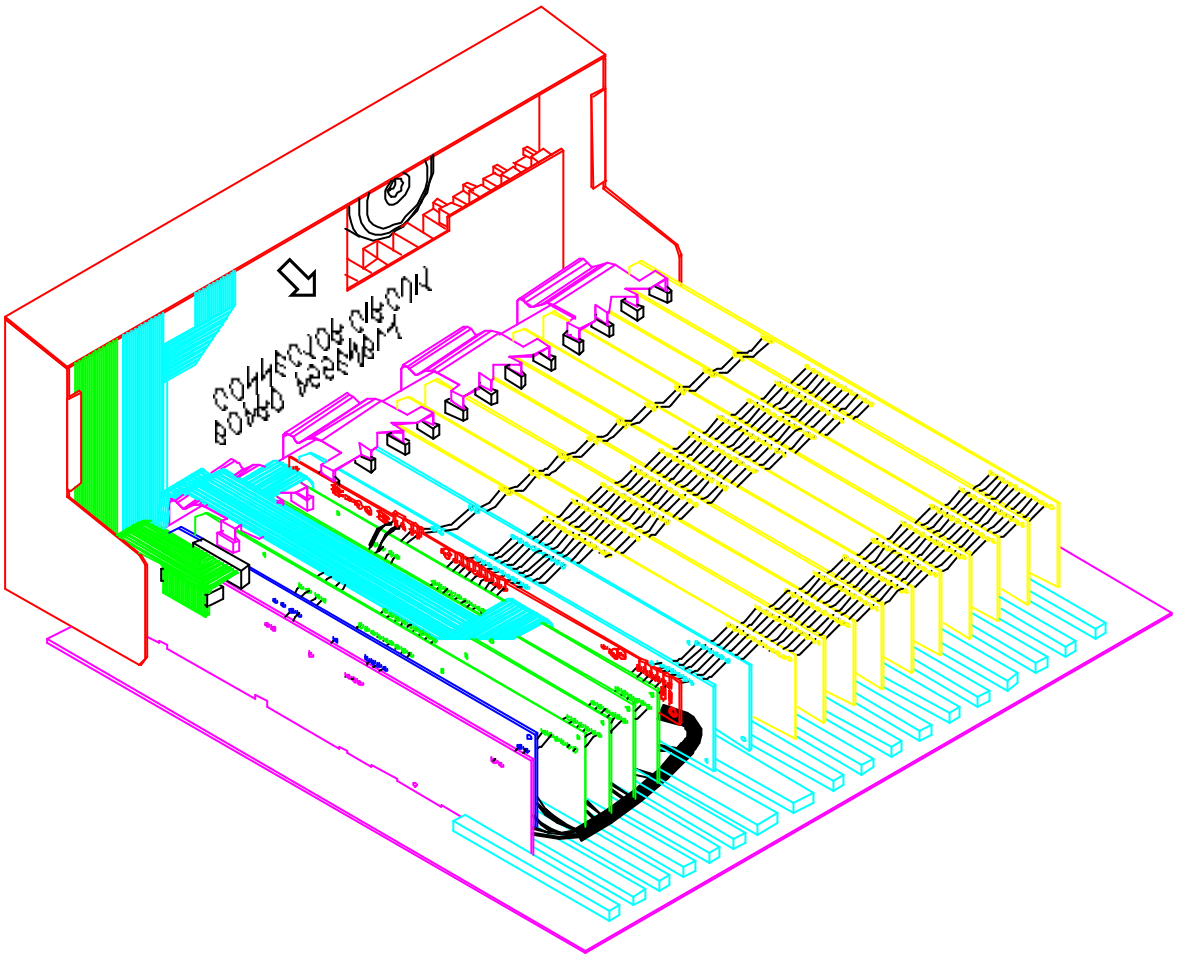


fig. 8

Refering to fig. 1 & fig. 9, remove the two screws fixing the blanking panel in place and fit the two SYS-LINK connectors. Check the connectors are fitted into the correct holes.

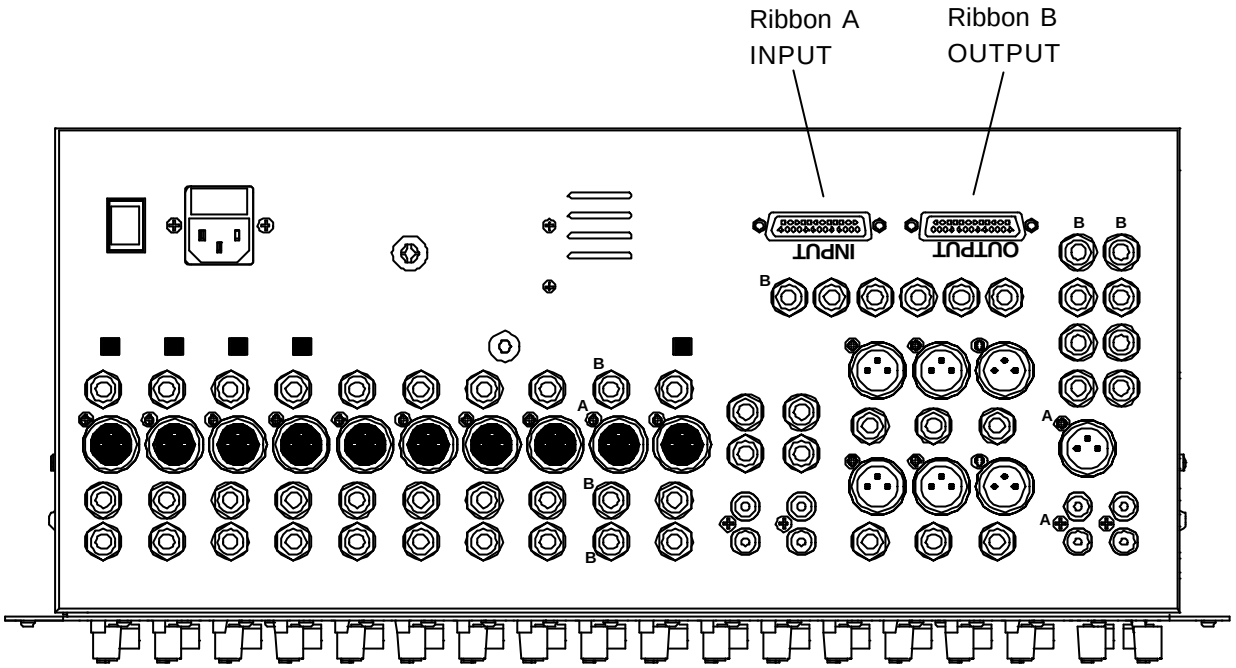


fig. 9

Refering to fig. 10, place the 2 SYS-LINK ribbon harnesses so that they locate in the slots in the base.

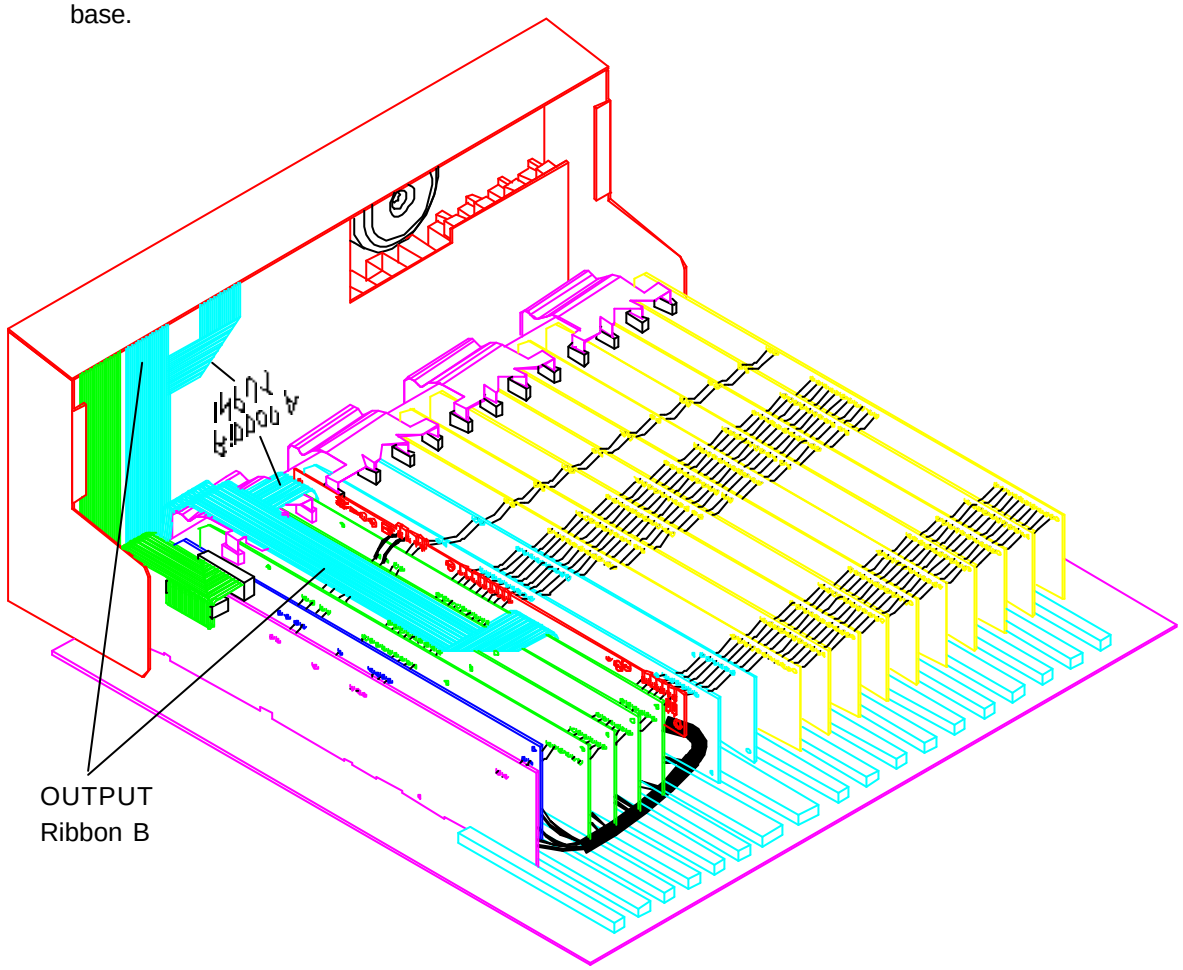


fig. 10

Carefully refit the connector circuit board assembly ensuring each XLR, Jack and Phono socket is correctly located. Check all rear panel switches operate correctly.

When all installation work is complete, remove all debris such as solder, component legs and wire clippings from inside the console and check your work carefully before reassembly.

❾ REFIT THE BASE :

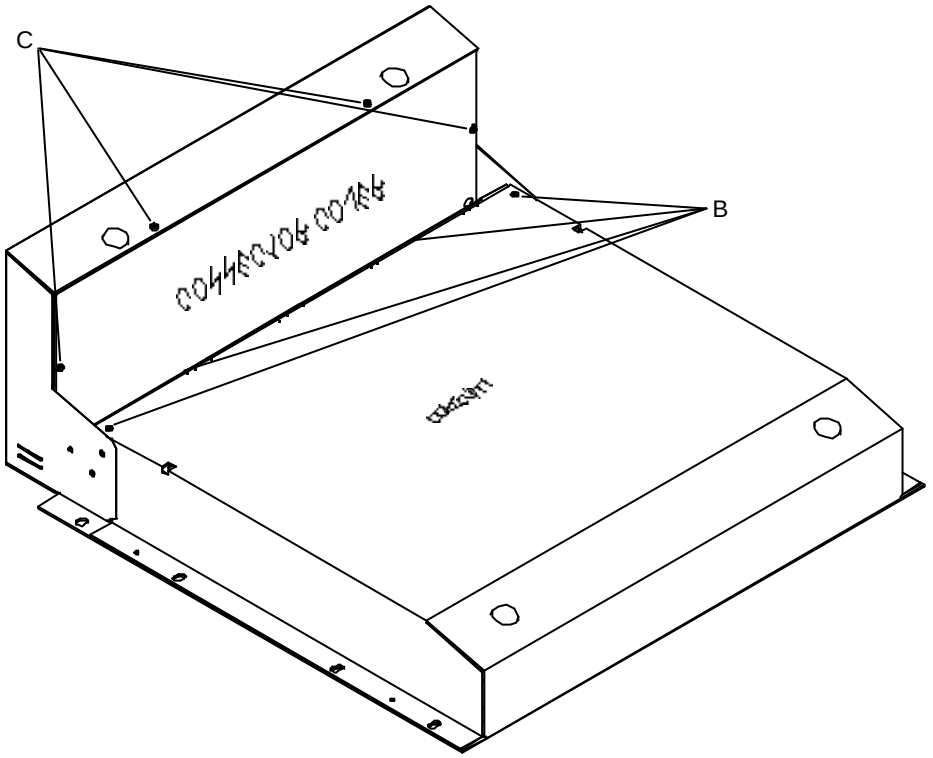


fig. 11

Refit the base and connector cover, taking care not to pinch or damage the flat flexible cables. Turn the console the correct way up.

❿ TEST THE SYSTEM:

Test all SYS-LINK inputs and outputs for correct signal level and quality by probing the D-connector pins or by interconnecting two consoles with SYS-LINK fitted. Test the PFL/AFL system for correct DC buss switching. The SYS-LINK circuit diagram and technical details are included for reference.

⓫ PLUG ON THE INTERCONNECTING CABLES:

SYS-LINK connectors are 25way D-type female. Use 25way D-type male to male connector cables. Connect pin one to pin one on all connectors. Connect shield (screen) to 0V. Standard cables are available from electronic suppliers or computer shops. It is advised that the cable is a screened type less than 10 metres. Use professional quality locking connectors.

When connecting to equipment other than the GL Series link all unused audio inputs to 0V earth at the SYS-LINK input.

The SYS-LINK Applications Note AP3221 is included separately with these fitting instructions. Provide this note to the user as applicable.

Please refer any queries to your Allen & Heath appointed service agent.