

# ALLEN&HEATH

MixWizard Series

## WZ14:4:2+

## 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: W21442-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 AP3665

## FITTING INSTRUCTIONS

**Publication AP3664**

Issue 2 July 01

# FITTING THE SYS-LINK EXPANDER OPTION

## 1 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.

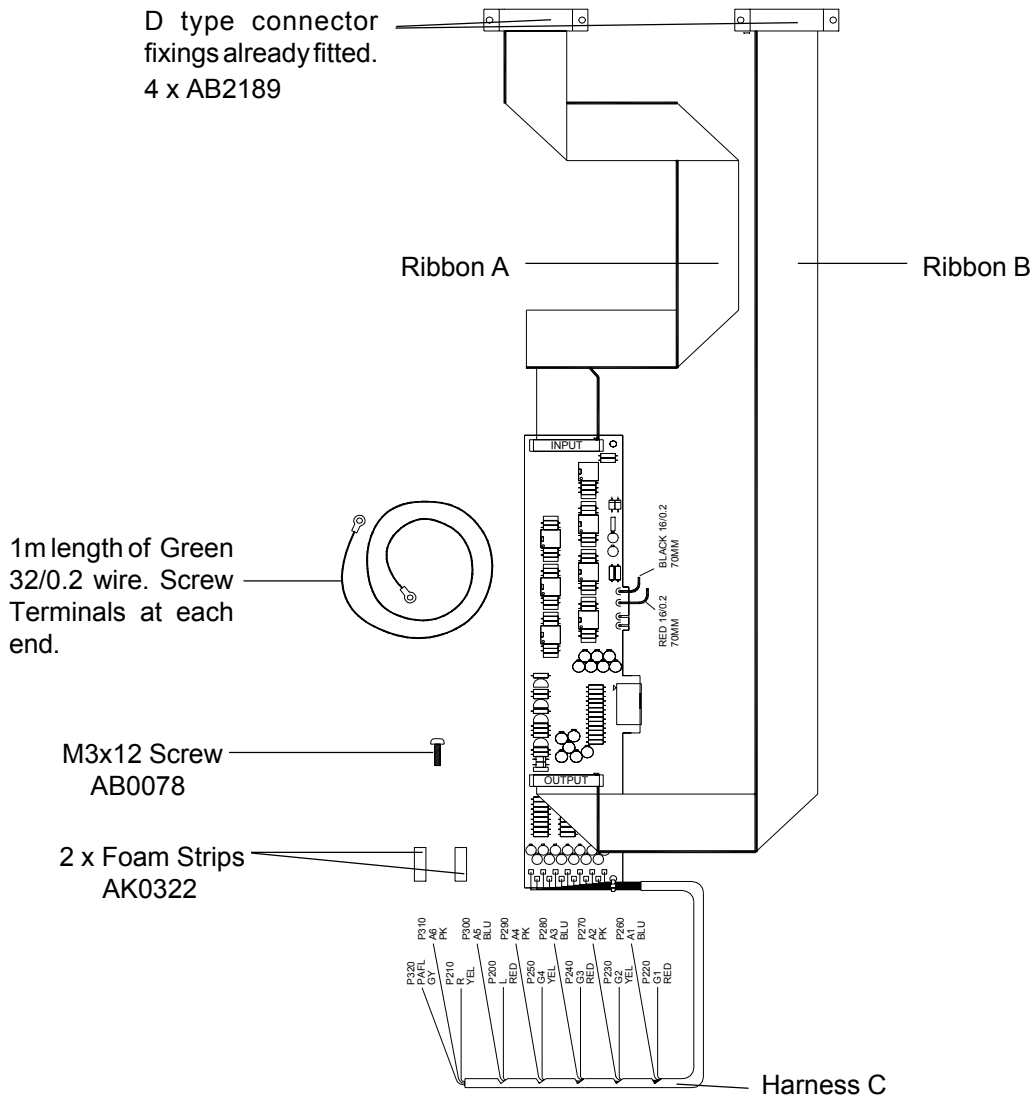


fig. 1

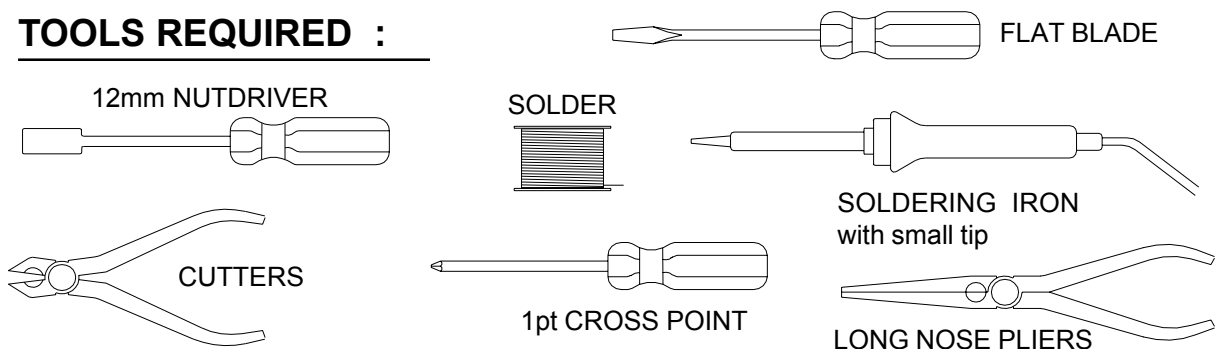
## Contents:

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

1x SYS-LINK Fitting Instructions (AP3664)

1x SYS-LINK Application notes (AP3665)

## 2 TOOLS REQUIRED :



### 3 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.

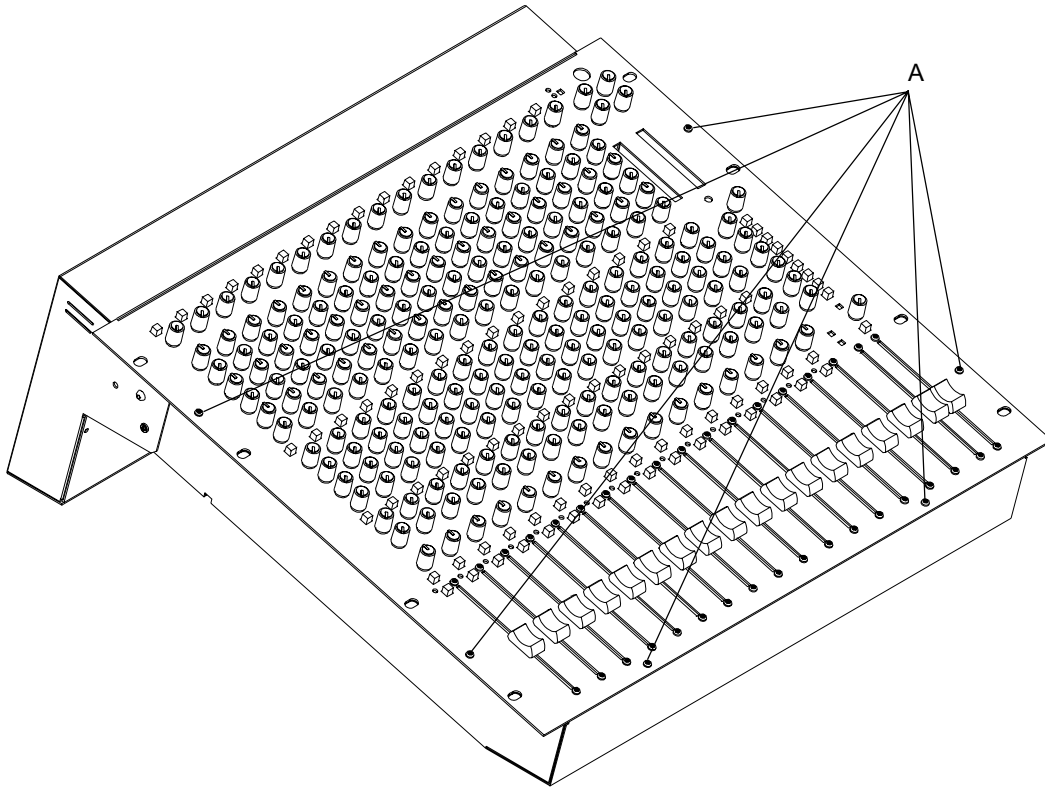


fig. 2

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.

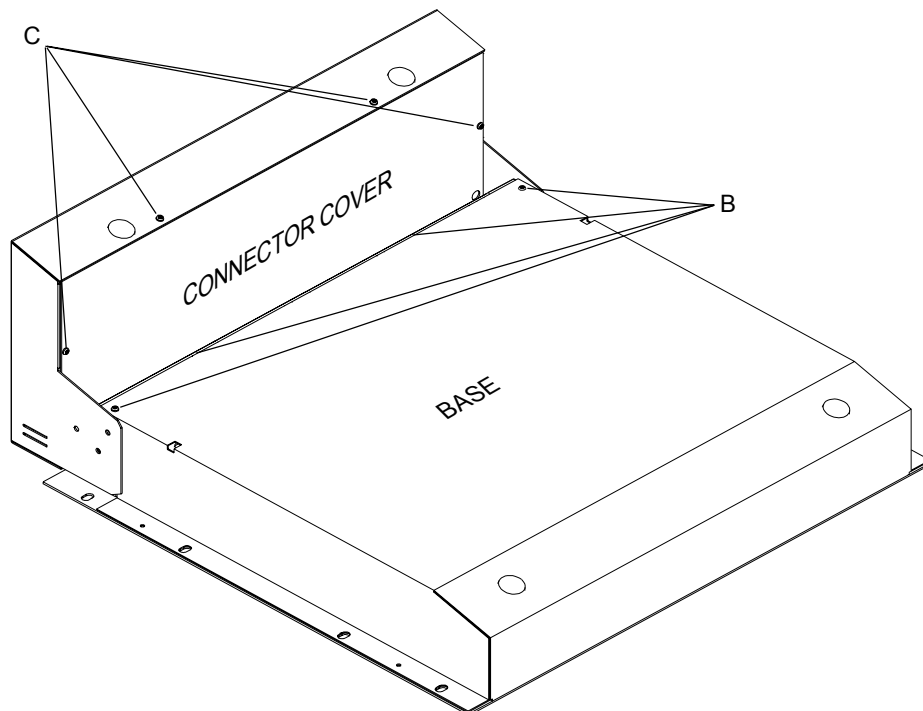


fig. 3

## 4 FITTING THE SYS-LINK CIRCUIT BOARD ASSEMBLY

Locate Stereo input 13-14 circuit board assembly and Group 1 circuit board assembly. Referring to fig.4 fit 2 x foam strips in between Stereo input 13-14 and Group 1 circuit boards. Remove the IDC harness from the Right PCB all the way to Stereo input 13-14 PCB. Cut the TC buss wire 5mm from the component side of the Stereo input 13-14 circuit board assembly and bend the TC buss wire vertically.

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

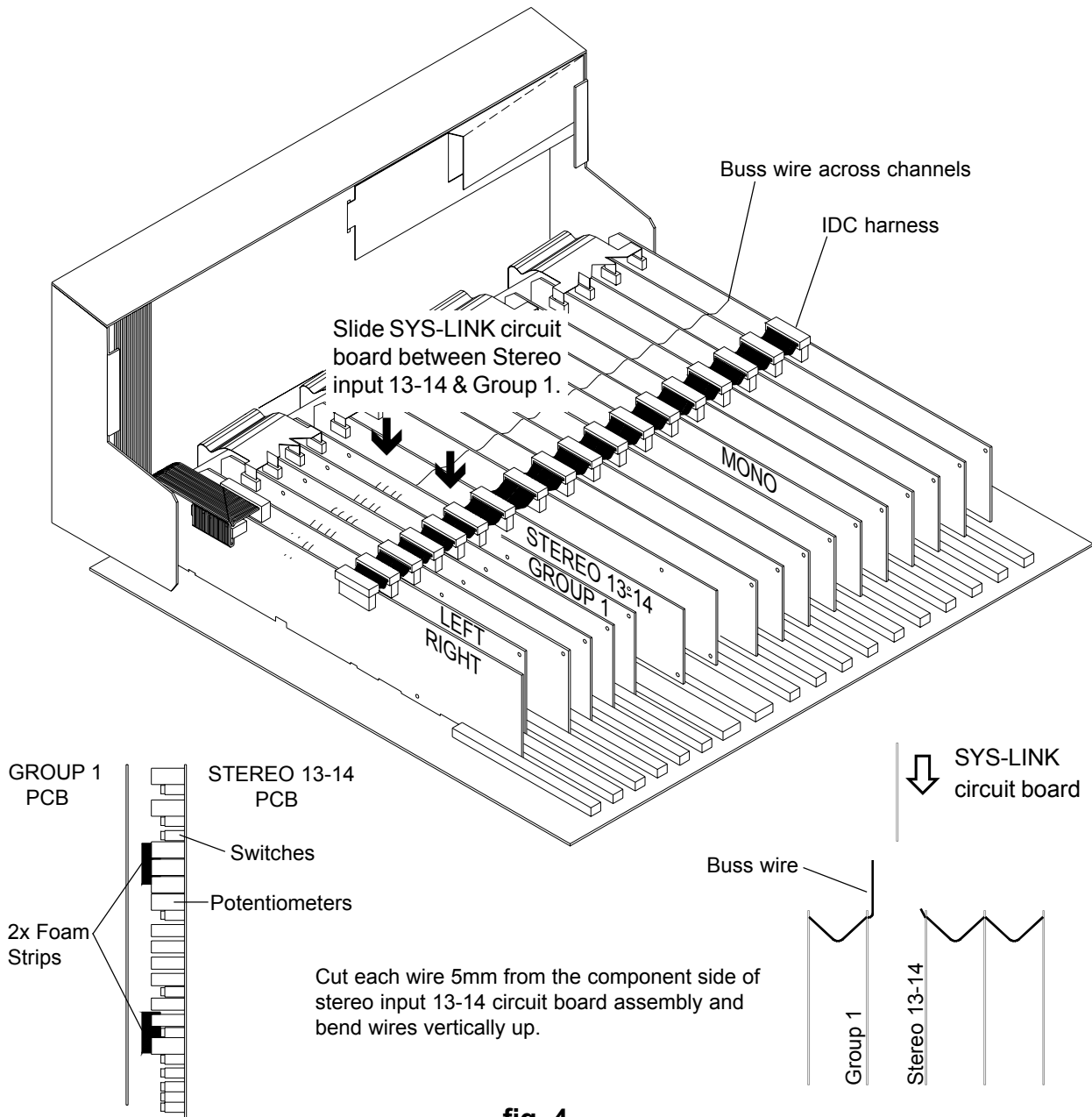


fig. 4

## 5 SOLDERING THE SYS-LINK HARNESS ASSEMBLY:

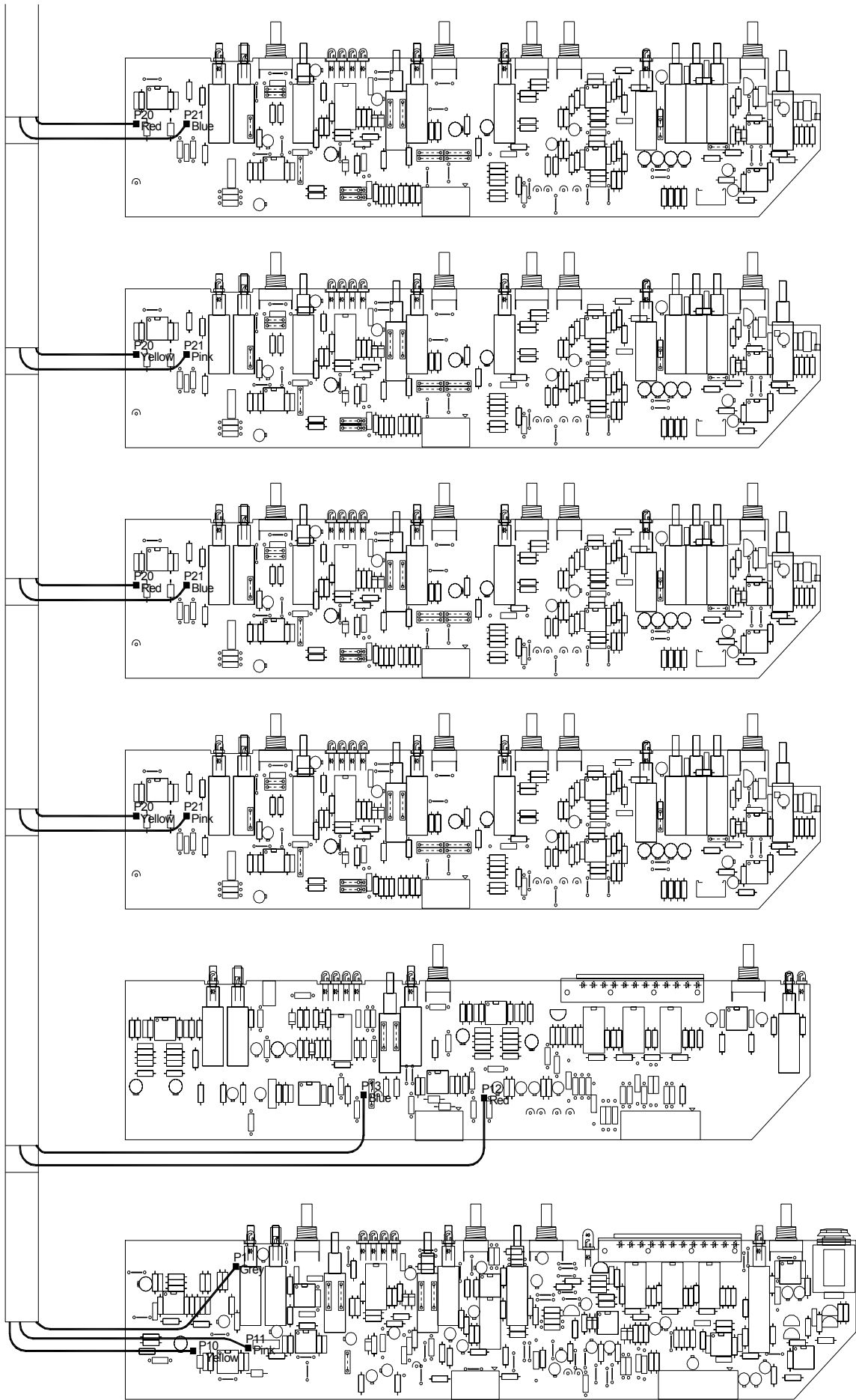
Referring to fig. 1, fig. 5 & fig.6, form harness C as shown and prepare the solder pads on the circuit boards with new solder to ease the soldering of the SYS-LINK wires.

**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

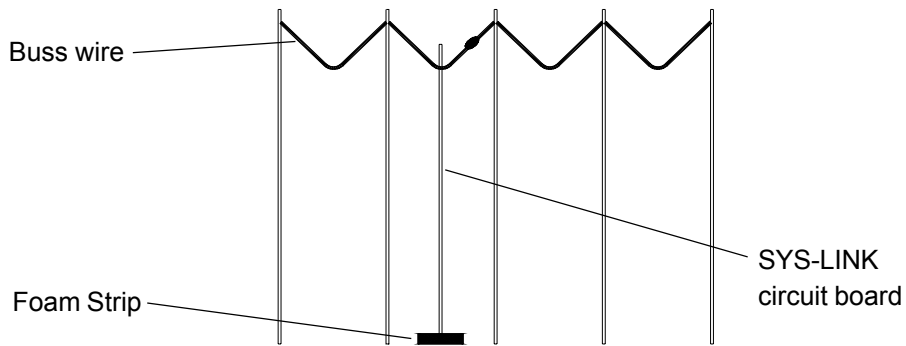


GROUP 1  
GROUP 2  
GROUP 3  
GROUP 4  
LEFT  
RIGHT

fig. 5

## 7 SOLDERING THE SYS-LINK CIRCUIT BOARD ASSEMBLY:

Bend the cut vertical TC buss wire back down and resolder.



Lift the SYS-LINK circuit board assembly and locate the Earth TC buss wire into the slot 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 resting on the 2 foam strips.

Check that the TC buss wire is located in the correct slot and carefully solder it.

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

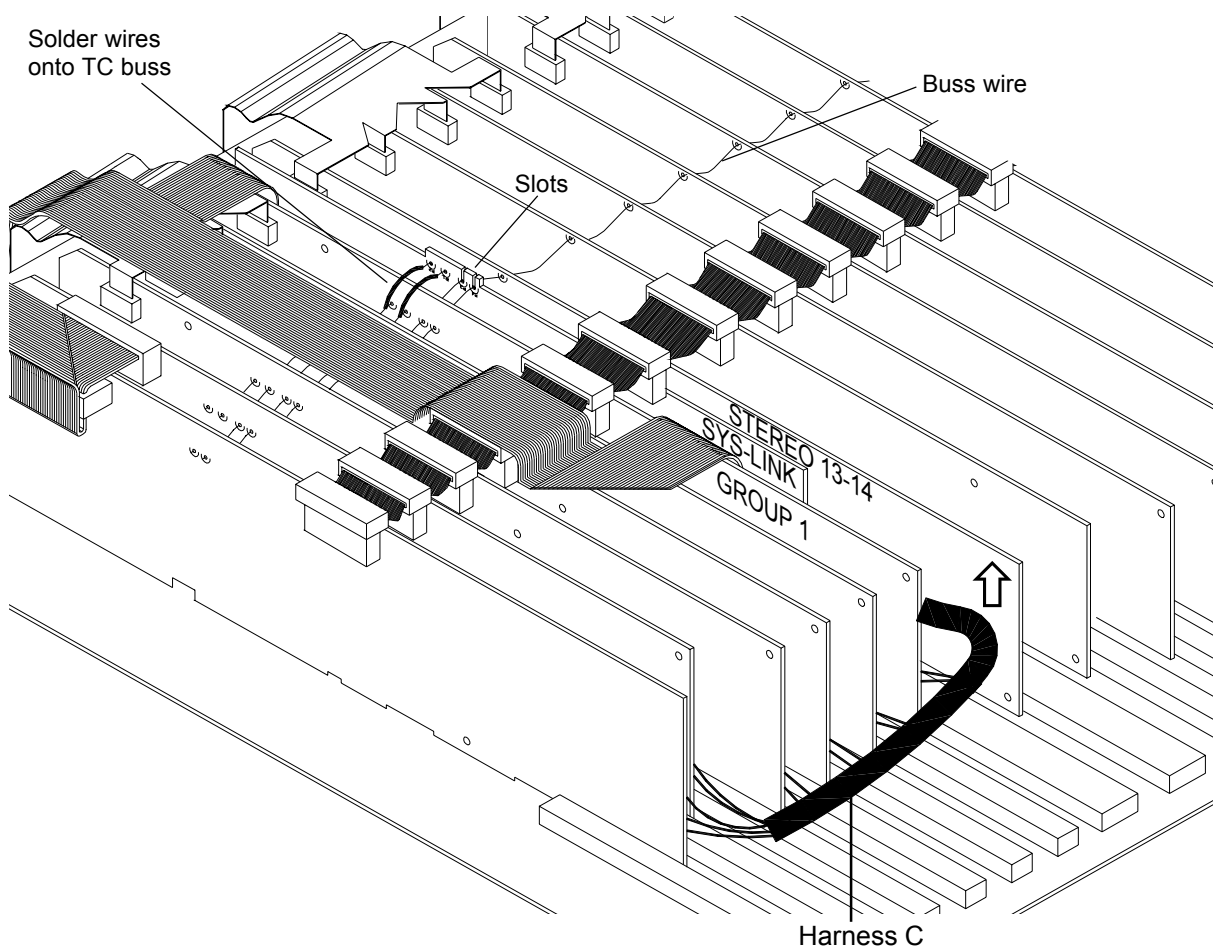


fig. 6

## 8 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).

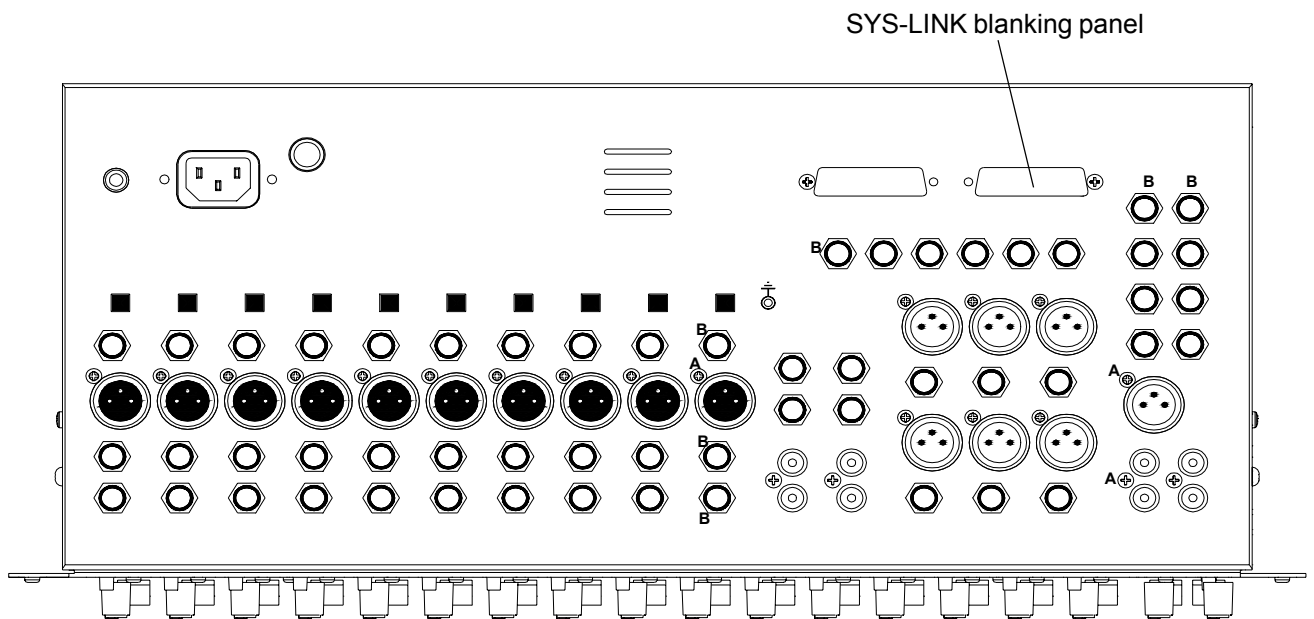


fig. 7

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.

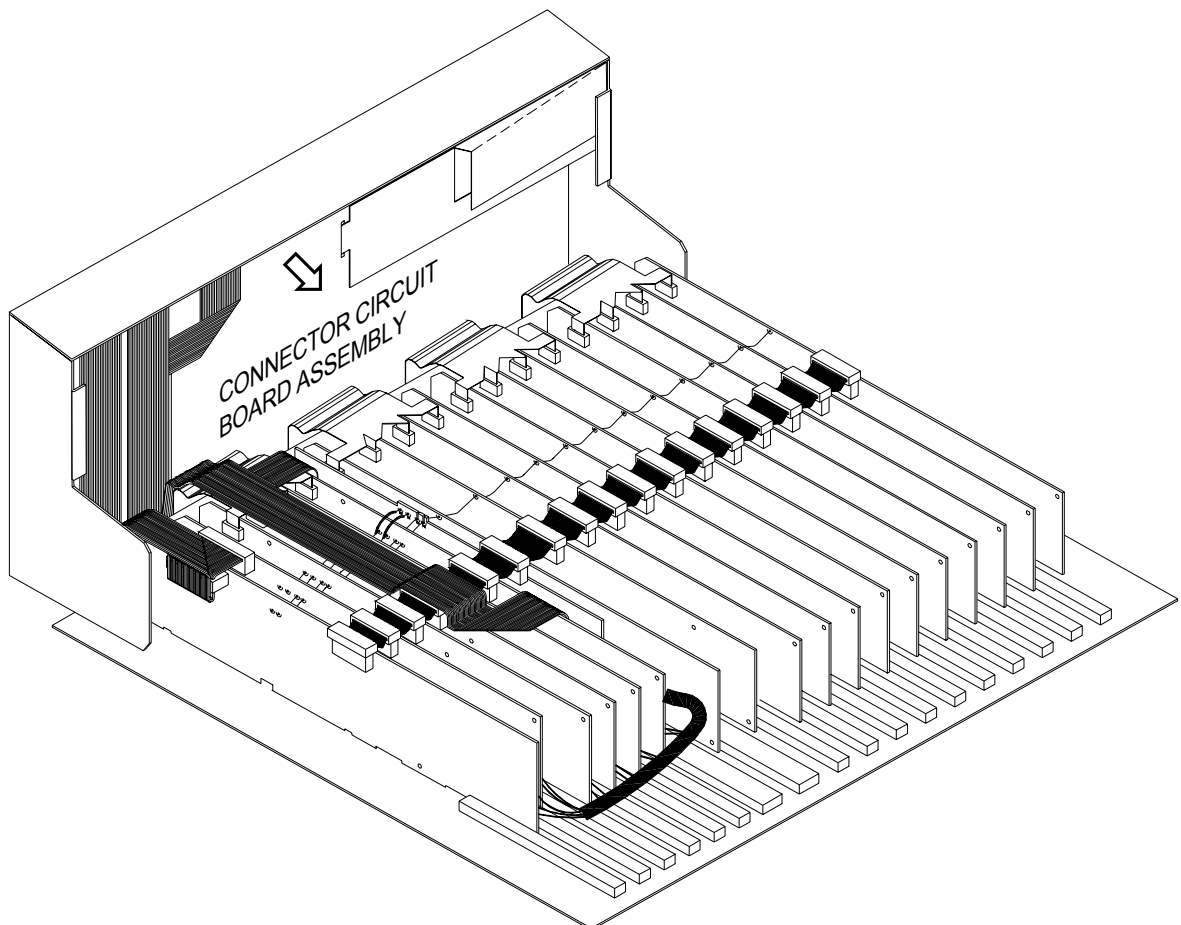
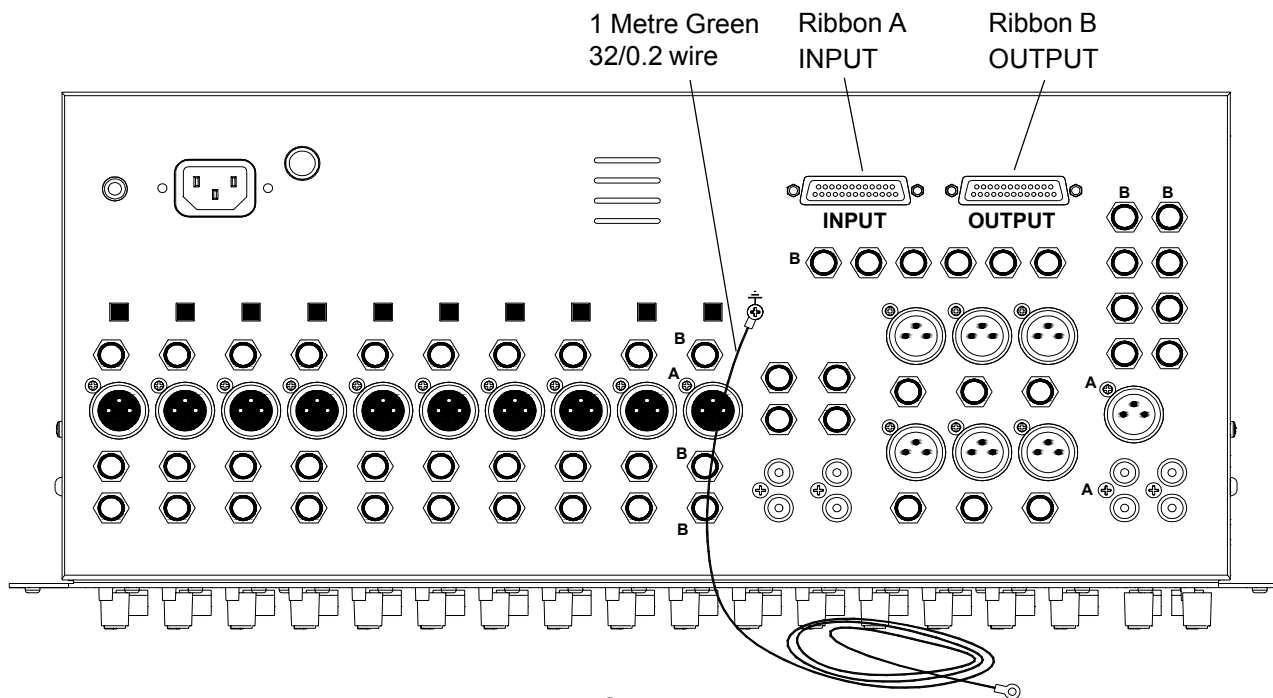


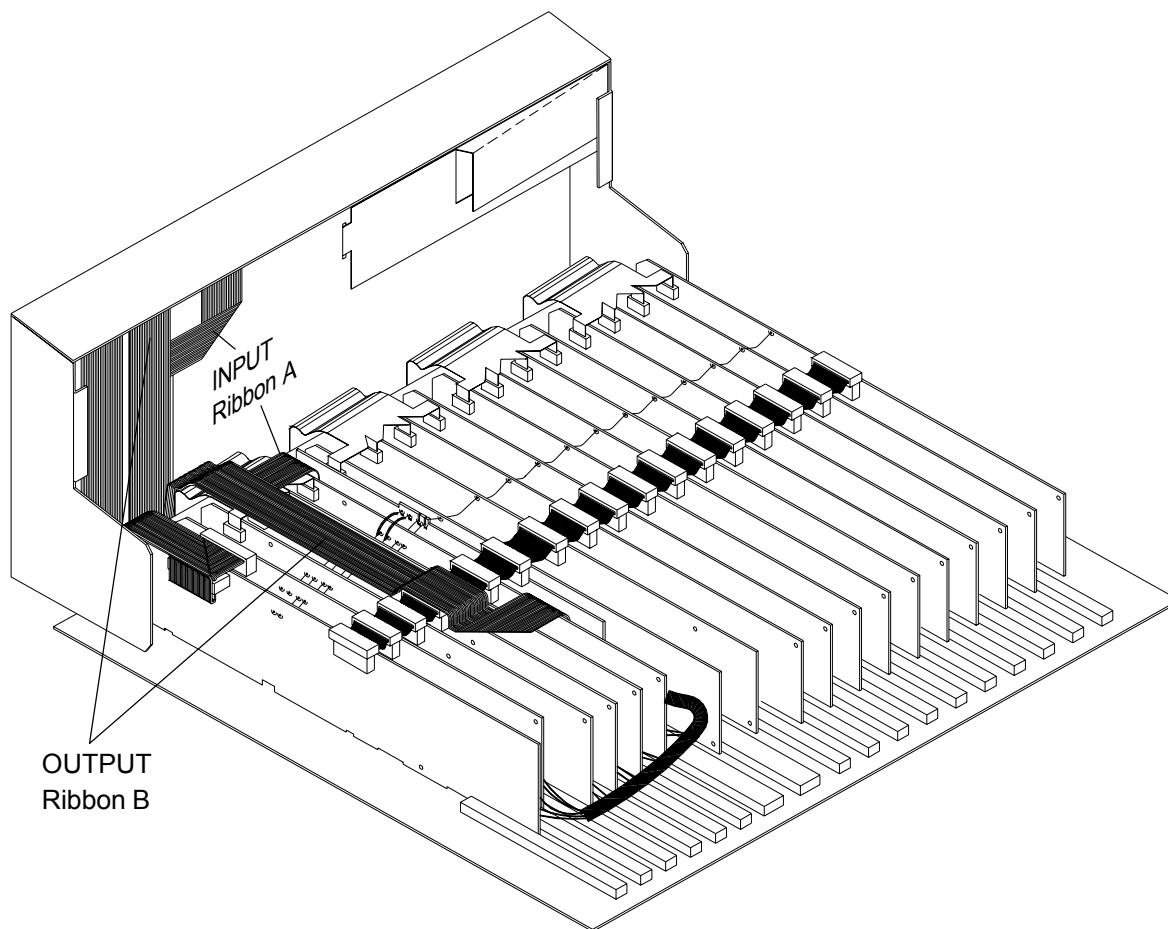
fig. 8

Referring 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. Fit the 32/0.2 Green wire to the panel using the M3 x 12 screw provided as shown below.



**fig. 9**

Referring 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.

## 9 REFIT THE BASE :

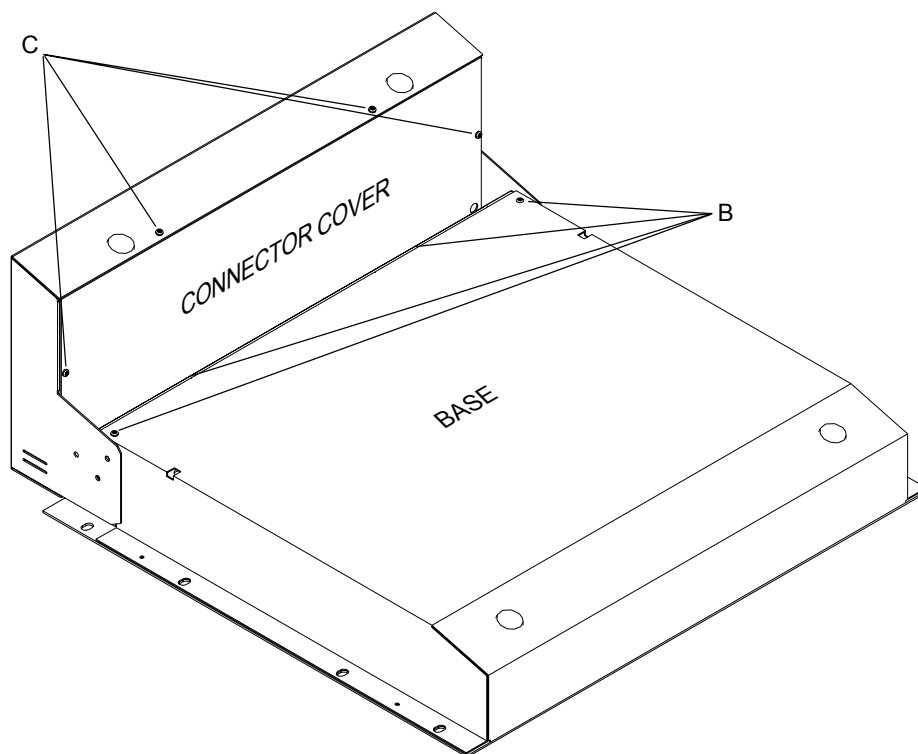


fig. 11

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

## 10 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. Connect the free end of the Green 32/0.2 wire to the second console as close to the power input as possible using one of its own chassis screws. The SYS-LINK circuit diagram and technical details are included for reference.

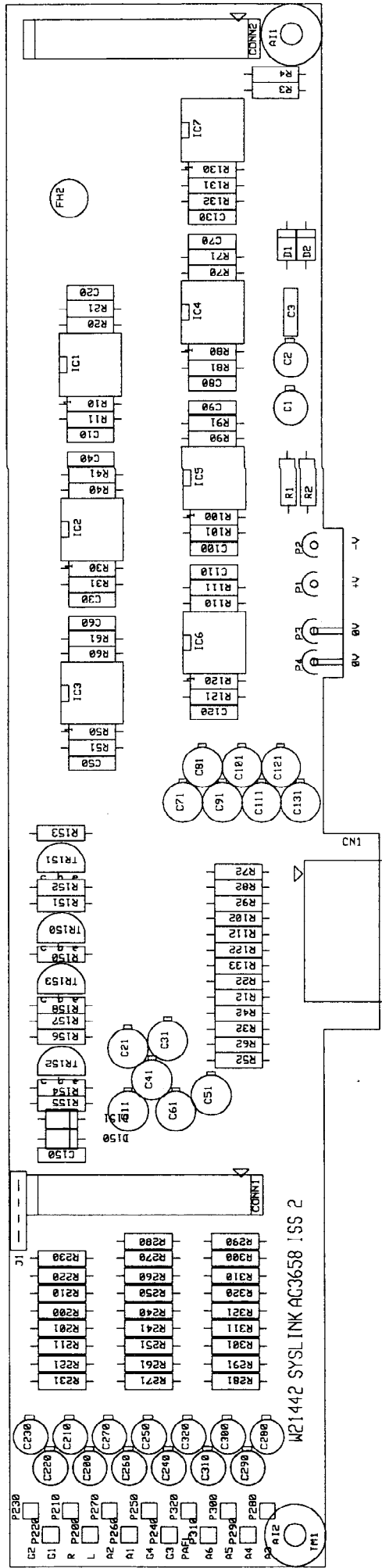
## 11 PLUG ON THE INTERCONNECTING CABLES:

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 no more than 2 metres long. 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.**

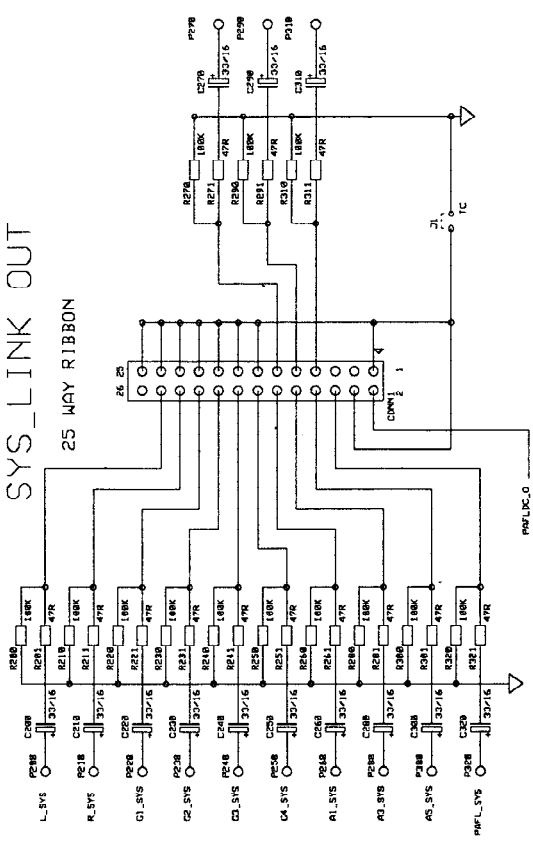
The SYS-LINK Applications Note AP3665 is included separately with these fitting instructions. Provide this note to the user as applicable.

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



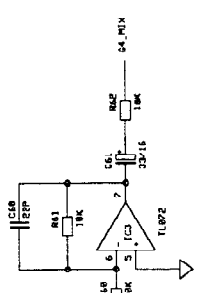
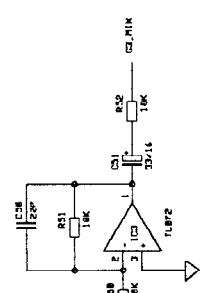
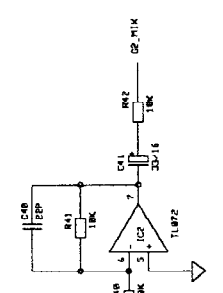
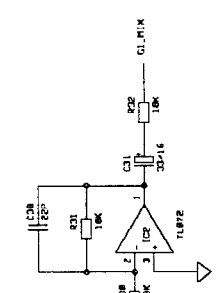
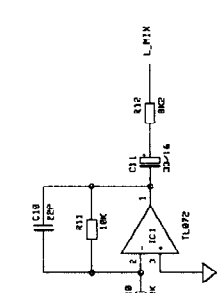
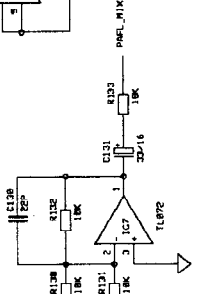
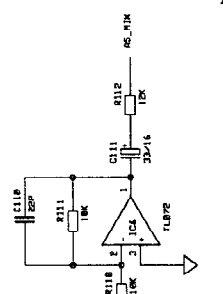
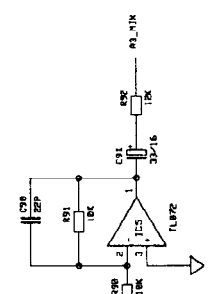
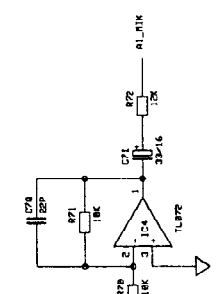
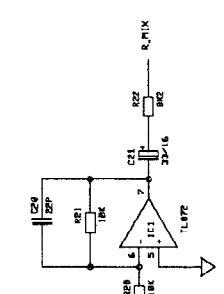
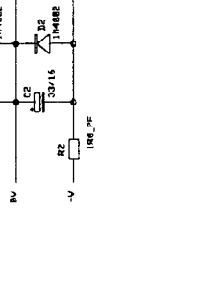
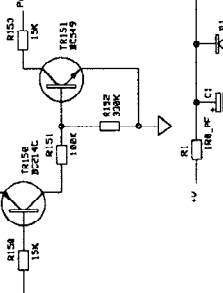
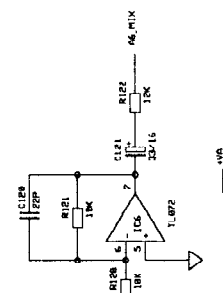
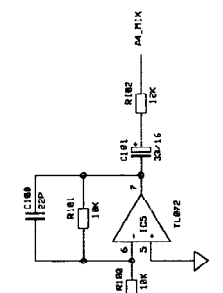
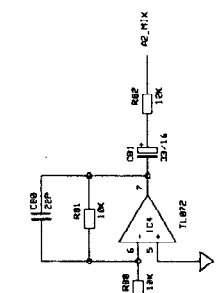
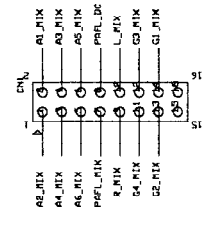
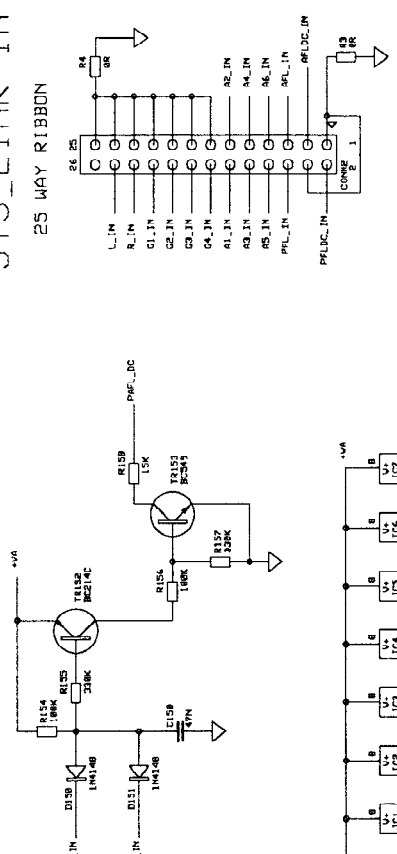
SYS\_LINK OUT

25 WAY RIBBON

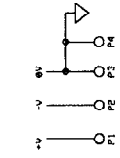


SYS\_LINK IN

25 WAY RIBBON

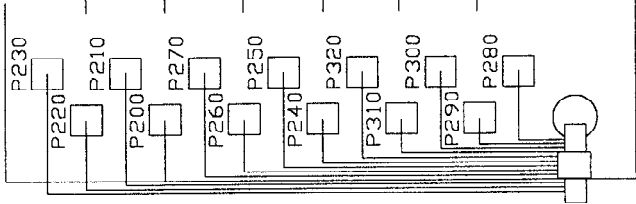


TC BUS



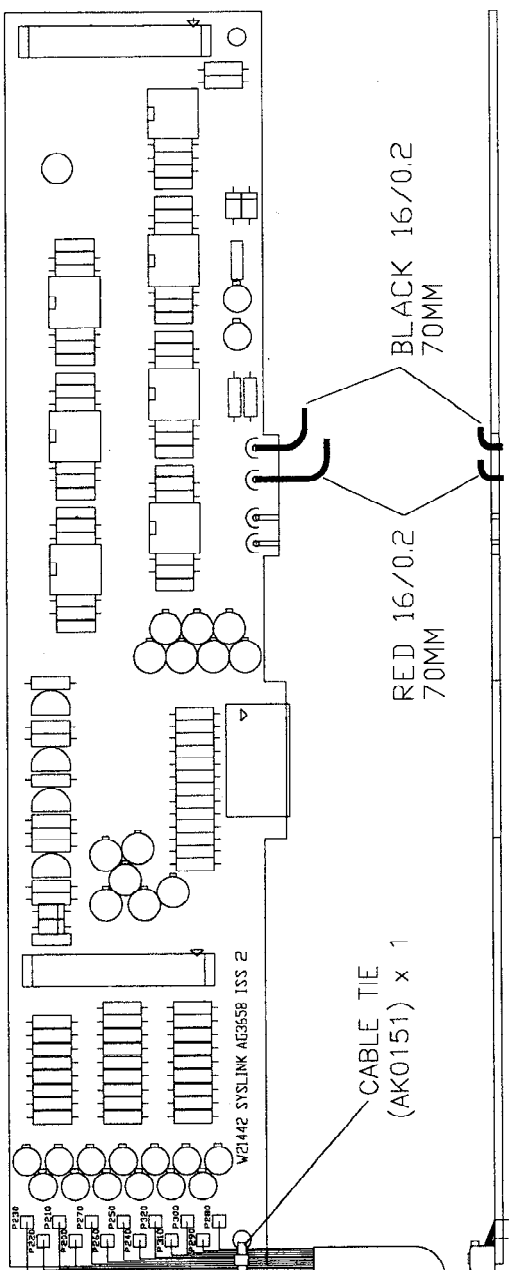
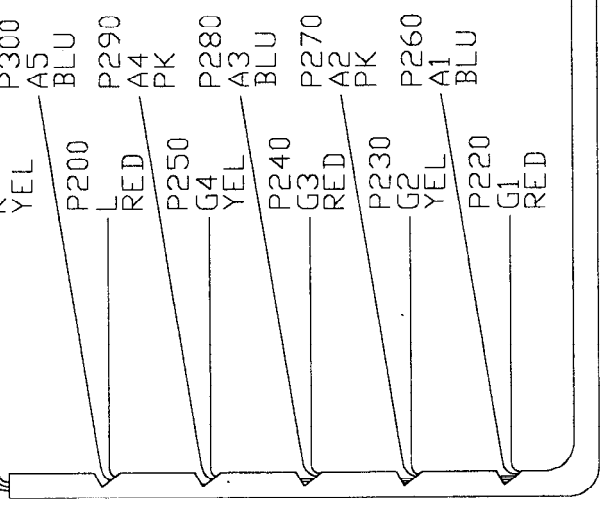
ISS. 2	REVISION	BY DATE	NOTES
ART 25-03-99			1. RESISTORS MARKED & PAE IN ALL OTHERS ARE 0.1% UNLESS OTHERWISE MARKED
ART 28-04-99			2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS
UNIT TITLE		W2142	
DRAWING TITLE		SYSLINK PCB	
PCB TYPE		AG3658	
MANUFACTURED IN ENGLAND BY		ALLEN & HEATH	
DRAWING NO.		C3658	
ISSUE		2	
PAGE		2	

SYS-LINK WIRE GROUP,L,R PCB  
PIN NO COLOUR PIN NO SIGNAL



—	P230	YEL	GROUP2, P20	G2
—	P220	RED	GROUP1, P20	G1
—	P210	YEL	RIGHT, P10	R
—	P200	RED	LEFT, P12	L
—	P270	PK	GROUP2, P21	A2
—	P260	BLU	GROUP1, P21	A1
—	P250	YEL	GROUP4, P20	G4
—	P240	RED	GROUP3, P20	G3
—	P320	GY	RIGHT, P1	PAFL
—	P310	PK	RIGHT, P11	A6
—	P300	BLU	LEFT, P13	A5
—	P290	PK	GROUP4, P21	A4
—	P280	BLU	GROUP3, P21	A3

P320	P310	P300	P290	P280	P270	P260	P220
PAFL	A6	A5	BLU	A3	A2	A1	G1
GY	PK	BLU	RED	BLU	PK	BLU	RED
P210	P200	P250	P240	P230	P240	P230	P220
R	L	G4	G3	G2	G2	G2	G1
YEL	RED	YEL	RED	YEL	YEL	YEL	RED



NOTES  
ALL DIMENSIONS IN mm  
UNLESS OTHERWISE STATED  
REMOVE ALL SHARP EDGES  
THIRD ANGLE PROJECTION

ISSUE	REVISION	BY	DATE
1	ORIGIN	DWD	26-05-99

DRAWING TITLE W21442 SYS-LINK  
PCB/WFM ASSY  
STOCK CODE M002-499

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DRAWING No M002-499 SHEET 1 A3