ALLEN&HEATH

WARNING – HIGH VOLTAGES

Power Supply Unit (PSU) work should only be carried out by qualified personnel.

We recommend that you use an approved Allen & Heath service centre for all power supply work.

Please contact your local Allen & Heath distributor for more details.

http://www.allen-heath.com/

SERVICE ACCESS

ACCESS TO MIXER CIRCUITS

To implement any User Options, you will need to gain access to the internal circuit cards, The various jumper links later defined are located on those cards. Follow the outlined procedure to safely open the Scepter mixer.

The Scepter is composed of individual glass-epoxy circuit cards secured to **a** silk-screened aluminum front panel. A steel rear panel is secured to the rear of the circuit cards by numerous jack nuts. This sub-assembly (i.e. Front panel, Circuit cards and Rear Panel) is then inserted into a steel chassis. Eight 6x32 front panel counter-sunk screws and eight 6x32 rear panel screws hold both assemblies together. The front carrying handles also hold the two assemblies together with four 10x32 screws.

In order to get to the jumper links, you will have to first remove the Front panel/Circuit card/Rear panel sub-assembly from the chassis and then remove the Rear panel from the Circuit cards. The jumper links will then be accessible. NOTE: If you need to change only the Master options (Mono or Stereo Out Jumpers) then the Rear panel **DOES NOT** have to be separated from the Circuit cards. Eliminate step 2 and proceed as far as step 7.

DISASSEMBLY

**Perform all work on a soft surface to prevent undue scratching of the Scepter unit.**

1   Place the Scepter face down (resting on its handles) on a soft surface
2   Loosen (do not remove yet) the black plastic nuts from the 1/4" jacks.
3   Remove the 8 panel screws securing the Rear panel to the chassis.
4   Turn the Scepter over and remove the 8 countersunk screws securing the Front panel to the Chassis. At this point the Handles screws are the only fasteners holding the Front panel Assembly to the Chassis.
5   Support the Scepter on its front, but without using the handles for support. Use a foam block or similar item 2" or greater in height to clear the handles.
6   Remove the 4 countersunk handle screws. Hold onto the handles when performing this step to prevent them from rotating and possibly scratching the Front panel.
7   Lift the Chassis off the Front panel assembly.
       At this point you may make changes to the Master jumper links. The remaining steps should only be performed if you need to remove the Rear panel. (This is necessary if Input or L/R jumper links have to be changed or if servicing needs

to be carried out.

a   Free the DC power XLR-5 pin insert from its metal shell by using a small screwdriver to loosen the XLR setscrew (anti-clockwise). The insert can then be pulled out the back of the XLR shell. The DC wires to the Master card will remain attached to the insert.

9   Remove the loosened plastic nuts from the **1/4"** jacks.

10   Remove the 2 fixing screws from each XLR jack.

11   Lift the Rear panel off the circuit cards.

The Circuit cards are now accessible for changes to the jumper links or repair work. If the main IDC 20 way ribbon harness is removed for service, use care when it is replaced. Make sure that all pins on all Circuit cards are correctly inserted into the IDC sockets; it is easy to bend a pin or mistakenly shift over one pin when putting a socket on. When re-assembling the Scepter, follow the above steps in reverse order.

The diagram below shows a header and Jumper link arrangement.

REMOVABLE JUMPER

DUAL ROW HEADER
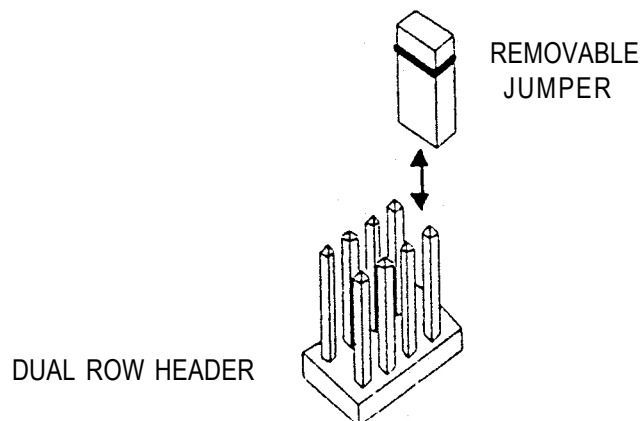
USER CONFIGURED OPTIONS

There are a number of User options available on the Scepter mixer. They are implemented with removable jumper links that the user can move to different combinations of header pins; no soldering is necessary. (except for the left and right Stereo Return options).

To alter any of the User Configured Options you will have to gain access to the internal circuit cards. Please read the ACCESS TO MIXER CIRCUITS procedure in the SERVICE ACCESS section.

OPTION DESCRIPTIONS

Input Channel Options

Seven different options are available on each Input channel:

Direct Out	1 of 3 choices
Aux send source select	1 of 3 choices for each Aux
Pre-EQ source select	1 of 3 choices
Pre-EQ mute select	1 of 2 choices

Direct Out

Three choices are available for the Channel Direct Out. Normally the Direct Out is set to follow the Fader and Mute switch, however there may be situations when you may want the Direct Out to stay active even if the Channel is muted. This would allow you to use each input as an independent preamp. If the channel is muted, the signal would appear only at the Direct Out jack; the Aux sends and L/R pan feed would be cut.

1	Post-Fader/Post-Mute	The Direct Out follows the Channel fader and Mute switch. This option is factory set.
2	**Post-Fader/Pre-Mute**	The Direct Out follows the Channel fader but the Mute switch has no effect on the signal.
3	Pre-Fader/Pre-Mute	Neither the fader nor Mute switch affect the Direct out.

Channel Aux Send Source Select

Three choices are available for each of the four Auxiliary Sends. Aux A & B are set up as Monitor or Cue sends (Pre-EQ/Pre-Fader); Aux C & D are set as EFX sends (Post-Fader). Normally all Aux sends are muted along with the channel, but the Pre-EQ source can be set to ignore the Mute switch. (see Pre-Eq Mute/No mute section) The Pre-EQ can also be set to 1 of 3 different configurations (See Pre-EQ Source Select).

1	Pre-EQ	Aux Send signal follows Gain control only. Auxes A & B default factory setting. This source has 3 extra configuration options. (see Pre-Eq Source Select)
2	Pre-Fader	Aux Send follows the EQ and Mute switches; Fader level has no effect. Same signal as PFL.
3	Post-Fader	Aux Send follows Fader and Mute Switch. Used for Effect send. Auxes C & D default factory setting.

Pre-EQ Source Select

Three choices are provided for the Pre-EQ source. Normally the Post-Insert/ Post-HPF option is selected. The aux signal will be after any signal processing equipment you may have patched into the Channel Insert jack and also the channel High pass filtering. If you want the Aux send to be unaffected by the external equipment, select the Pre-Insert option. Likewise, choose the Post-Insert/Pre-HPF point if you want the Aux to have the effect but not have the High Pass Filtering.

1	Pre-Insert	Pre-EQ point is directly after the channel preamp section. Any external equipment will not affect the aux send signal.
2	Post Insert/Pre-HPF	Pre-EQ point follows any external equipment but is not affected by HPF switch.
3	Post Insert/Post HPF	Pre-EQ signal is after any external processing equipment and is affected by the HPF switch. This is the factory default setting.

Pre-EQ Mute/No Mute

The Pre-EQ source (1 of 3 selected above) can be set to follow the Channel Mute switch or to ignore it. It is normally set to follow the mute. If you desire the source to be active even when the channel is muted, configure the No Mute option.

1   Pre-EQ Mute   Pre-EQ source will mute with the Channel. This is the factory default setting.

2   Pre-EQ No Mute   Pre-EQ source will remain on even when the channel is muted.

Left and Right Stereo Return Options

There are four 10k Ohm resistors (brown,black,orange) that can be set on each L/R card. These four resistors are located behind the two Aux controls. They select the source for the two Aux sends on each Stereo return. You have many variations, for each of the two Aux send sources.

If you select both a Left and Right source, the Aux will be a mono mix of the Stereo return.

1   L-R return Pre-level   Aux sends A & B configured to follow the pre-level mono mix of left and right return. This is the factory default setting.

2   L-R return Post level   Aux sends A & B configured to follow after the post level mono mix of left and right return.

If you want to change to Aux A Left only and Aux B Right only, remove the appropriate resistors. You may then configure the resistors for pre or post level for each aux send.

3   Left return Pre-level   Aux sends A and/or B can be configured to follow the left return only.

4   Left return Post-Level   Aux sends A and/or B can be configured to follow just the left return after the level control and mute switch.

5   Right return Pre-level   Aux sends A and/or B can be configured to follow the right return only.

6   Right return Post-level   Aux sends A and/or B can be configured to follow just the right return after the level control and mute switch.

Master Options

The user can choose the sources for both the Balanced MONO out XLR connector and the STEREO OUT 1/4" jack socket. These outputs are derived from some point in the main Left and Right audio path. The options are: Pre-Insert, **Post-Insert/Pre-Fader** and Post-Fader.

Normally both the Mono and Stereo outputs are set for Pre-Insert. This makes them independent of the main L & R faders and any processing equipment that is patched into the Left or Right Insert jacks.

1	Mono Out Pre-Insert	Output is a mono mix of the main left & right pre-insert signal. This is the factory default setting.
2	Stereo Out Pre-Insert	Output is the main left & right pre-insert signal. Tip is left and Ring is right. This is the factory default setting.

Configure the jumper links for Post Insert if you want the MONO and STEREO OUT signals to be affected by any external processing equipment patched into the L & R Inserts.

3	Mono Out Post Insert	Output is a mono mix of the main left & right post insert signal. The L & R fader levels have no effect.
4	Stereo Out Post Insert	Output is the main left & right post insert signal. Tip is left and Ring is right. The L & R fader levels have no effect.

Configure the jumper links for Post-Fader to have both outputs follow the main L & R outputs.

5	Mono Out Post Fader	Output is a mono mix of the main left & right post fader signal. Equivalent to a mono mix direct out.
6	Stereo Out Post Fader	Output is the main left & right post fader signal. Tip is left and Ring is right. Equivalent to a stereo direct out.

The Mono Output header mixes the two selected sources together. The Stereo Out header routes the left source to the left out and the right source to the right out.

Two extra positions are available on the Stereo out header. These points are

brought out to holes in the circuit board allowing you to feed an Aux output or other signal to the Stereo Out. Solder a wire between the hole pad and the desired signal point and move the header to the Ext position.

OPTIONS TABLE

All the possible Scepter user options are listed in the table below with the factory defaults indicated with an X. Diagrams on the following pages show the Scepter circuit cards and where the various jumper links and default jumpers are located.

INPUT CHANNEL	
Direct Out	Post-Fader/Post-Mute X
	Post-Fdr/Pre-Mute
	Pre- Fader
Aux A Source	Post-Fader
	Pre-Fader
	Pre-EQ X
Aux B Source	Post-Fader
	Pre- Fader
	Pre-EQ X
Aux C Source	Post-Fader X
	Pre-Fader
	Pre-EQ
Aux D Source	Post-Fader X
	Pre- Fader
	Pre-EQ
Pre-EQ Source	Post-Insert/Post-HPF X
	Post-Insert/Pre-HPF
	Pre-insert
Pre-EQ Mute	Mute With Channel X
	No Mute With Channel

L/R GROUP	
Stereo Return Aux Feeds	
Aux A Source	Left Rtn: Post-Level
(Mixes L & R)	Left Rtn: Pre-Level X
	Right Rtn: Post-Level
	Right Rtn: Pre-Level X
Aux B Source	Left Rtn: Post-Level
(Nixes L & R)	Left Rtn: Pre-Level X
	Right Rtn: Post- Level
	Right Rtn: Pre-Level X

MASTER	
Mono Out	Left: Pre-Insert X
(Mixes L & R)	Left: Post Insert
	Left: Post-Fader
	Right: Pre-Insert X
	Right: Post Insert
	Right: Post- Fader
Stereo Out Left	Left: Pre-Insert X
	Left: Post Insert
	Left: Post-Fader
	Ext PC Pad
Stereo Out Right	Right: Pre-Insert X
	Right: Post Insert
	Right: Post- Fader
	Ext PC Pad

CHASSIS GROUND LIFT

Normally the chassis of the Scepter is connected to the audio ground with a link on the DC Input connector.

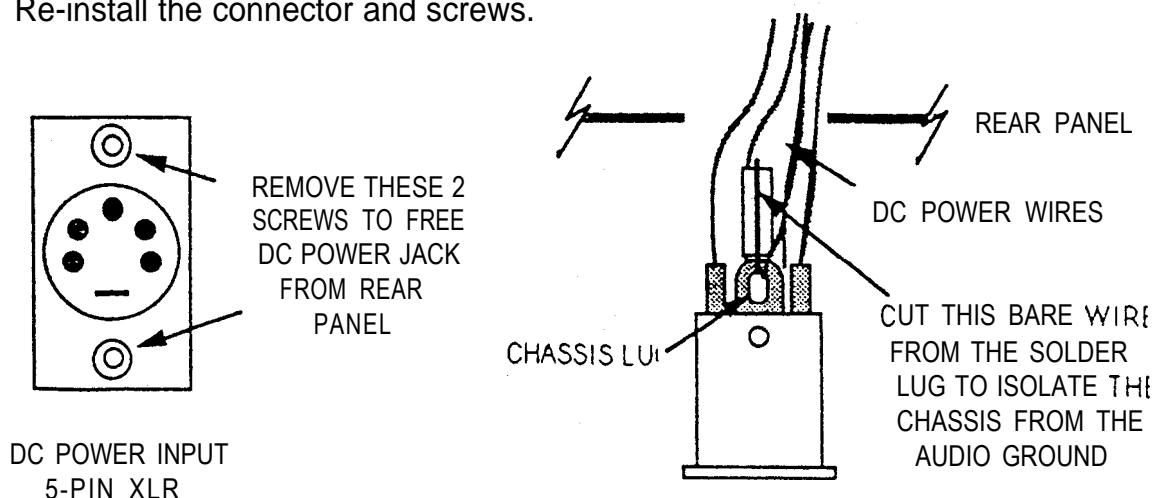 The chassis can be lifted from the audio ground by removing this link.

 This should not be confused with disconnecting the ground on an AC plug. The AC ground is a safety ground; it is there as protection from electrocution if some component should fail and cause an exposed surface to become live. The safety ground is designed to shunt this voltage to ground, causing the equipment or outlet fuse to blow. The Power supply chassis is attached to this AC ground since there are potentially hazardous voltages inside the case. The Scepter chassis and audio ground are isolated from this AC ground since the Power Supply feeds only low-voltage DC to the mixer. The Scepter chassis and audio ground are floating in respect to the AC ground; they will obtain their ground from the external equipment they are attached to.

 In most rack situations, there are a number of grounds tied together via the metal rack rails. This can lead to ground loops which may cause hum in a system. These ground loops can be eliminated in many cases.by isolating the equipment audio ground from this metal rail. If you need to isolate the Scepter chassis then follow the procedure outlined below:

 The Scepter is also provided with Pin-I lifts on all its Balanced outputs. In some cases lifting Pin 1 is all that is required to fix a ground loop problem.

Chassis-Audio Ground isolation procedure:

1 Release the DC Power connector from the rear panel by removing the 2 fixing screws

2 Carefully ease the connector out and locate the chassis lug (see diagram)

3 Locate the bare wire link that is attached to this lug(see diagram)

4 Cut this wire and dress it to prevent shorting.

5 Re-install the connector and screws.

REMOVE THESE 2
SCREWS TO FREE
DC POWER JACK
FROM REAR
PANEL

DC POWER INPUT
5-PIN XLR

REAR PANEL

DC POWER WIRES

CUT THIS BARE WIRE
FROM THE SOLDER
LUG TO ISOLATE THE
CHASSIS FROM THE
AUDIO GROUND

CHASSIS LUG

SERVICE INFORMATION
AND
DIAGRAMS

MAIN RIBBON SIGNALS

TOP VIEW

```
19  ⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓  1
20  ▐▐▐▐▐▐▐▐▐▐  2

    u u u u u u u u u u
```

```
19  ▣▣▣▣▣▣▣▣▣▣  1
20  ▣▣▣▣▣▣▣▣▣▣  2    CIRCUIT BOARD
```
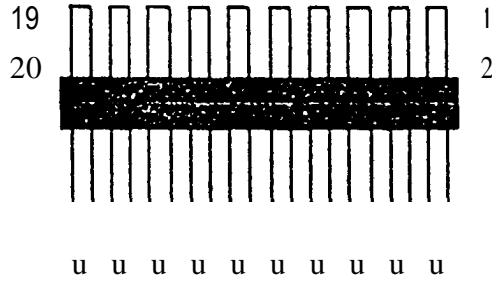
VIEW ON PINS

MAIN RIBBON SIGNALS

PIN #	SIGNAL	PIN #	SIGNAL
1	AUX C MIX	2	AUX B MIX
3	AUX D MIX	4	AUX A MIX
5	PFL MIX	6	REF GROUND
7	RIGHT MIX	8	AUDIO GROUND
9	LEFT MIX	10	AUDIO GROUND
11	AUDIO GROUND	12	AUDIO GROUND
13	POWER GROUND	14	LED GROUND
15	PFL DC	16	+48 VOLTS
17	AUDIO +15 VOLTS	18	LED +15 VOLTS
19	AUDIO -15 VOLTS	20	LED -15 VOLTS

NOTE: The Silkscreen legends on the PCBs are in error (odds and evens are reversed). Pin ID locations are correct as shown above.
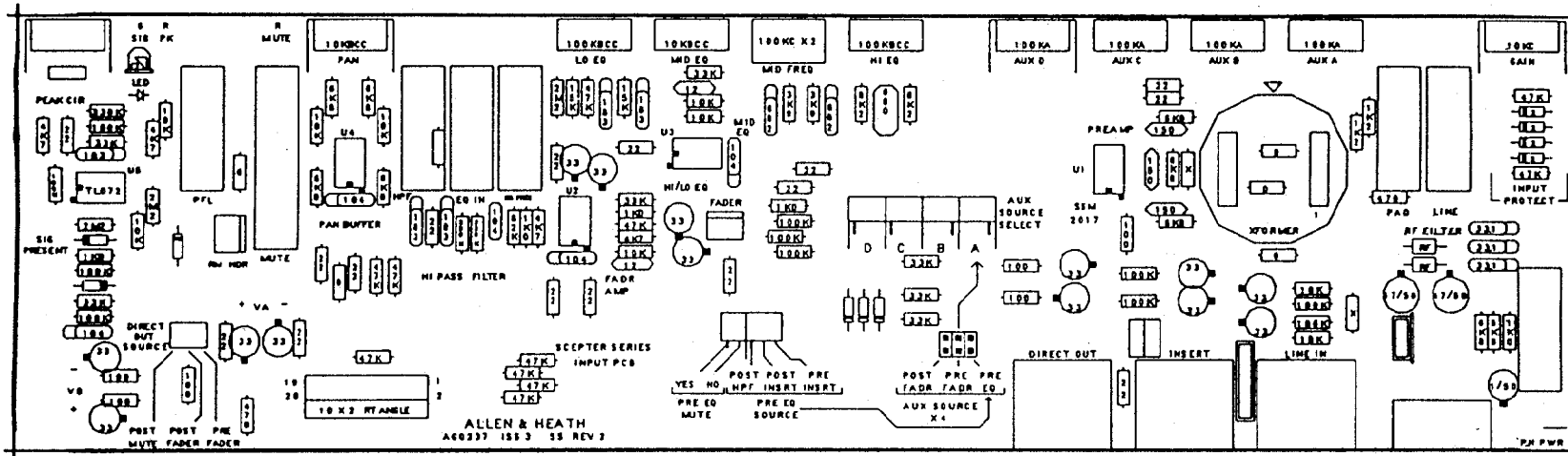
SCEPTER RACK MIXER - 10 RACK SPACES

17
(445)

DEPTH
BEHIND
PANEL

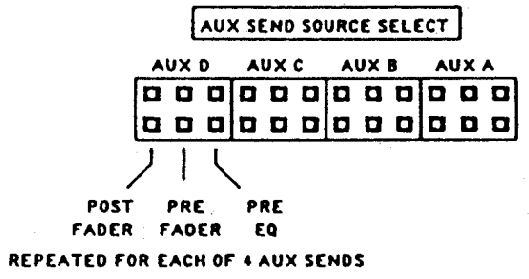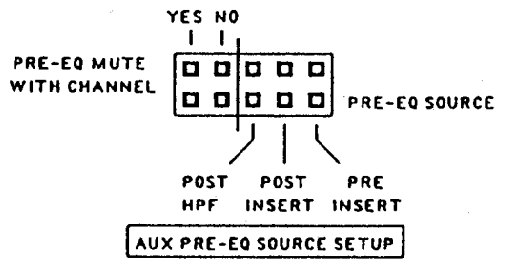3.7
(94)

19 (483)
PANEL
WIDTH

1.4
(36)

HEIGHT ABOVE
PANEL (HANDLES)

CHASSIS
WIDTH

1.0
(25)

RACK EAR
WIDTH

17 (432)
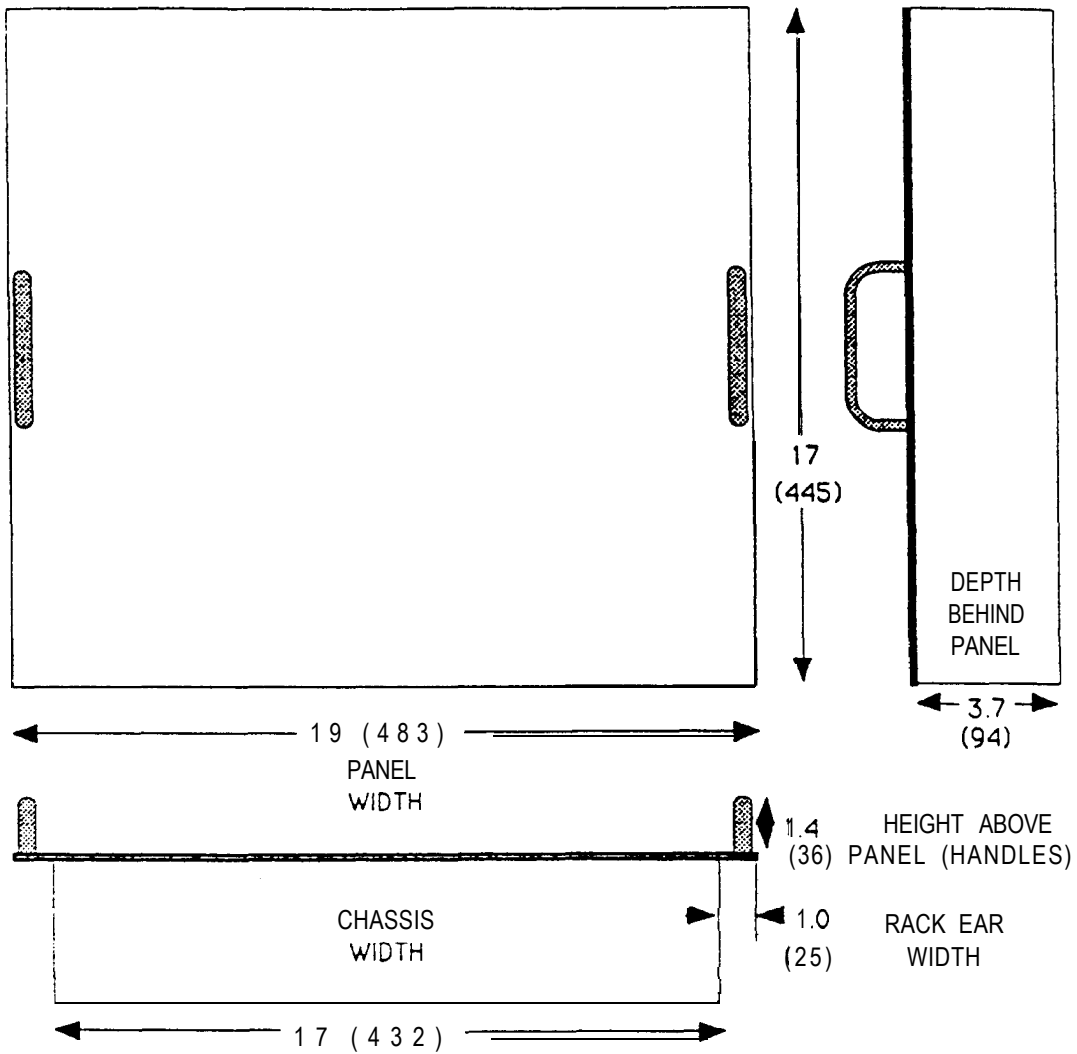
MPS-8R POWER SUPPLY - 2 RACK SPACES

19 (483)

3.5
(89)

DC PWR
CORD OUT

AC MAINS
CORD INLET

MAINS
FUSE

2.8
(71)

11
(280)

SCEPTER RACK MOUNT MIXER
ALL DIMENSIONS IN INCHES & (MM)
OCT 89 JRP

SCEPTER RACK MIXER
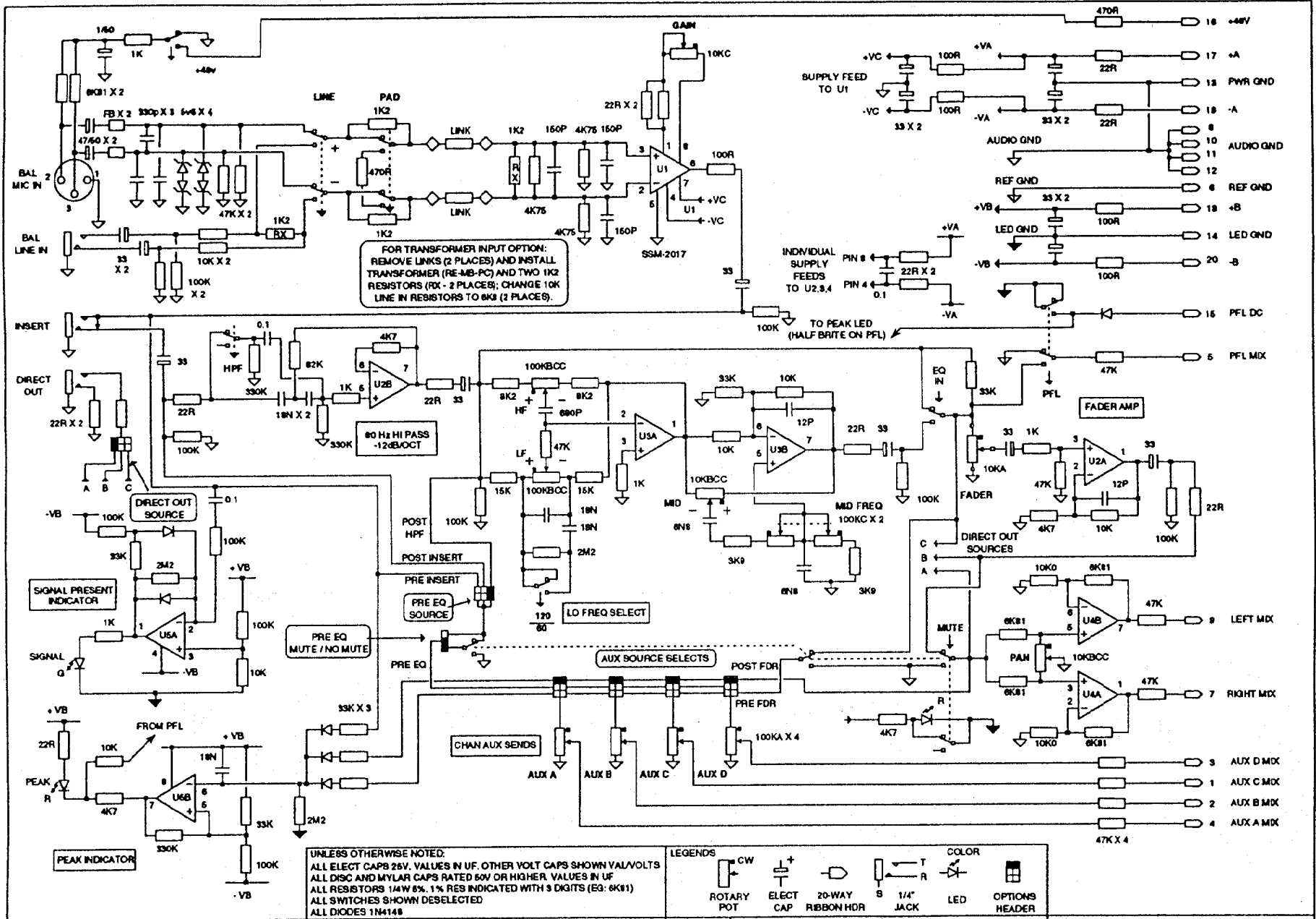BLOCK SCHEMATICS
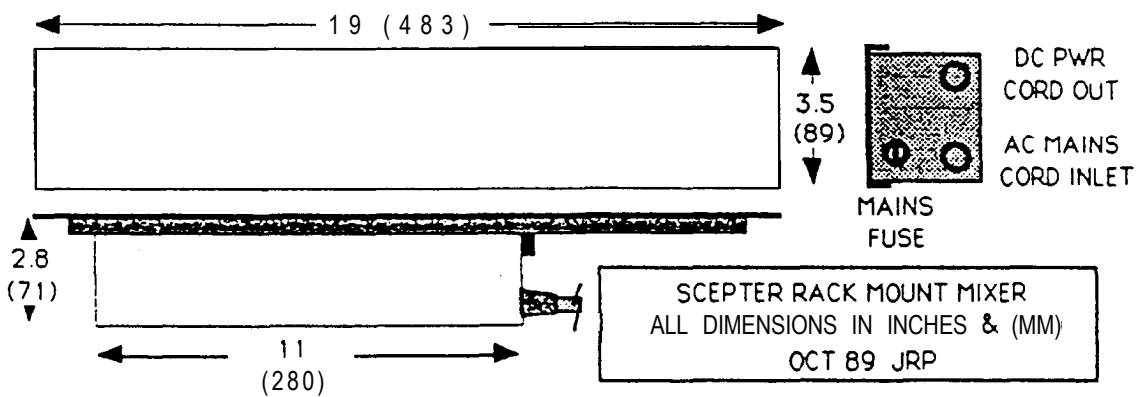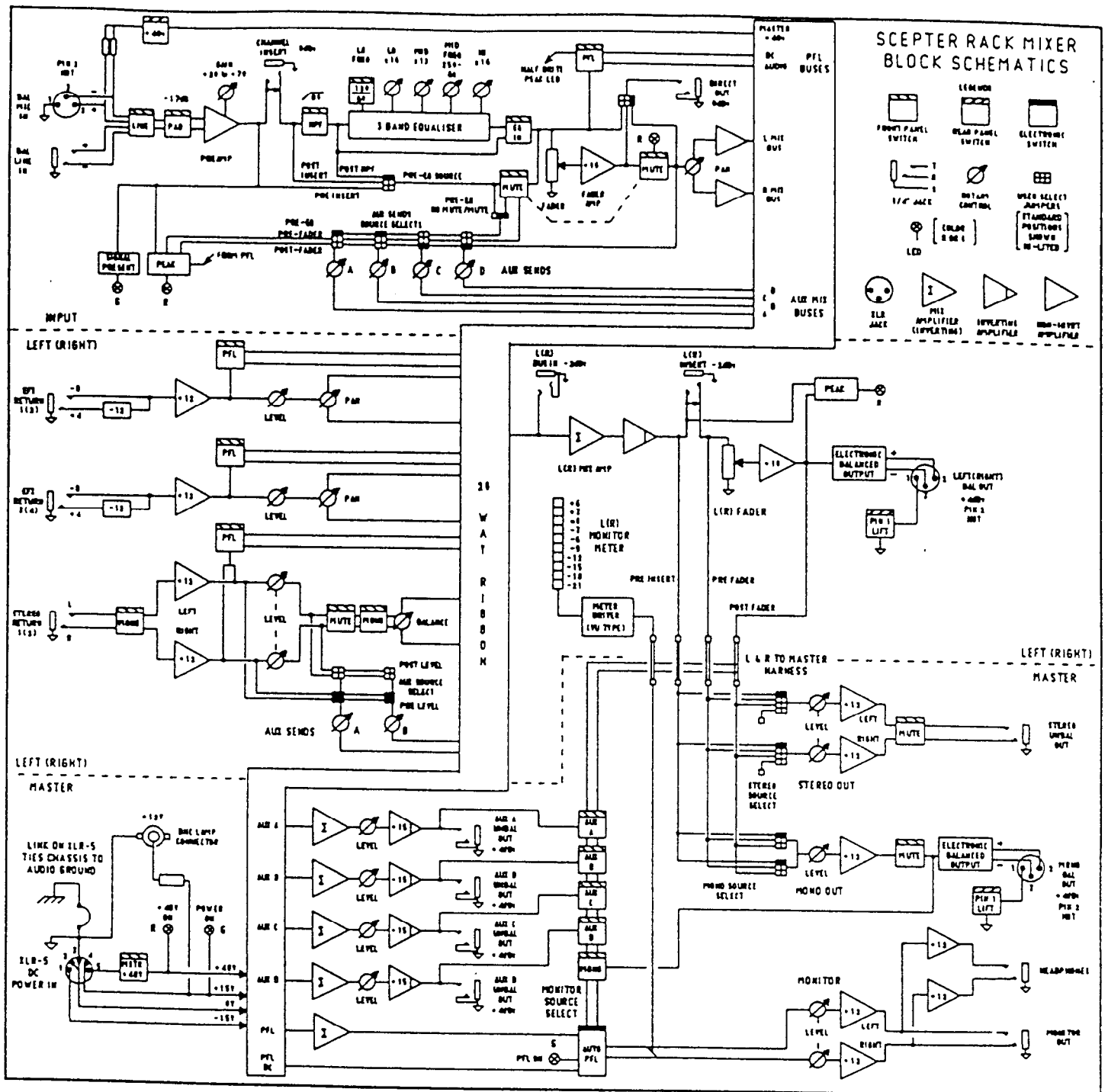
ALLEN & HEATH
SCEPTER RACK   BLOCK DIAGRAM   ISSUE 2   OCT 89

* INDICATES 1% MF RESISTOR

⊏◯◻ INDICATES NEG CAP LEAD

SCEPTER SERIES INPUT PCB
ALLEN & HEATH
AG0237 ISS 3 SS REV 2

```
POST   POST   PRE
MUTE   FADER  FADER
```
DIRECT OUT SOURCE SELECT

```
        YES NO
PRE-EQ MUTE
WITH CHANNEL              PRE-EQ SOURCE

POST   POST   PRE
HPF    INSERT INSERT
```
AUX PRE-EQ SOURCE SETUP

AUX SEND SOURCE SELECT

```
AUX D    AUX C    AUX B    AUX A

POST   PRE   PRE
FADER  FADER  EQ
```
REPEATED FOR EACH OF 4 AUX SENDS
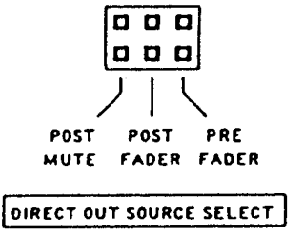
SCEPTER INPUT PCB   ISSUE 3   MAR 91.
PARTS PLACEMENT & OPTION HEADER LOCATIONS
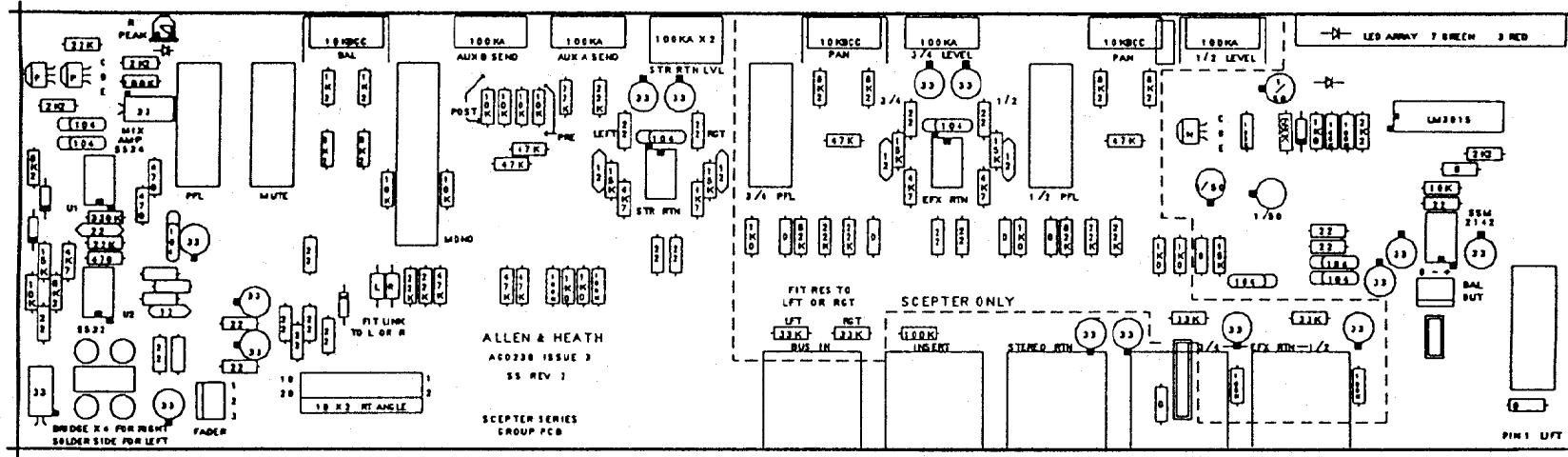
HEADERS SHOWN ON PCB WITH JUMPERS SET AT FACTORY DEFAULT.

SCEPTER / VISION MIXER- INPUT SCHEMATIC

CIRCUIT DIAGRAM PCB AG0237 ISSUE 3

ALLEN & HEATH

PROFESSIONAL AUDIO EQUIPMENT MANUFACTURERS

DATE	COMMENTS	DRWN	CHKD
3/91	ISS 3 PCB NEW PREAMP IC, XFORMR OPTION	JRP	JRP
10/89	ISS 2 PCB BUFFRD PAN. NEW PAD & SIG PRSNT	JRP	JRP
11/88	ISS 1 PCB PRODUCTION	JRP	JRP

UNLESS OTHERWISE NOTED:
ALL ELECT CAPS 25V. VALUES IN UF. OTHER VOLT CAPS SHOWN VAL/VOLTS
ALL DISC AND MYLAR CAPS RATED 50V OR HIGHER. VALUES IN UF
ALL RESISTORS 1/4W 5%. 1% RES INDICATED WITH 5 DIGITS (EG: 6K81)
ALL SWITCHES SHOWN DESELECTED
ALL DIODES 1N4148

FOR TRANSFORMER INPUT OPTION:
REMOVE LINKS (2 PLACES) AND INSTALL
TRANSFORMER (RE-MB-PC) AND TWO 1K2
RESISTORS (RX - 2 PLACES); CHANGE 10K
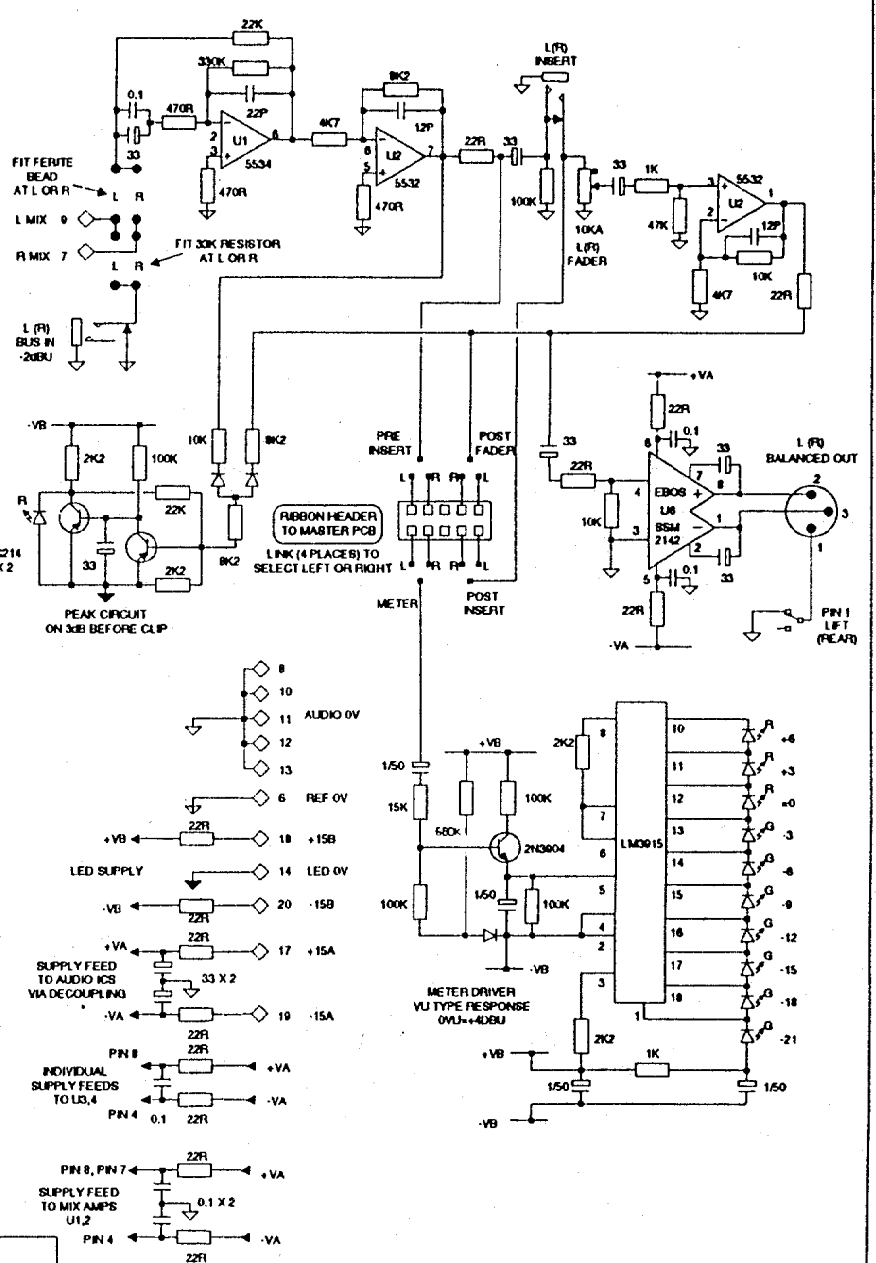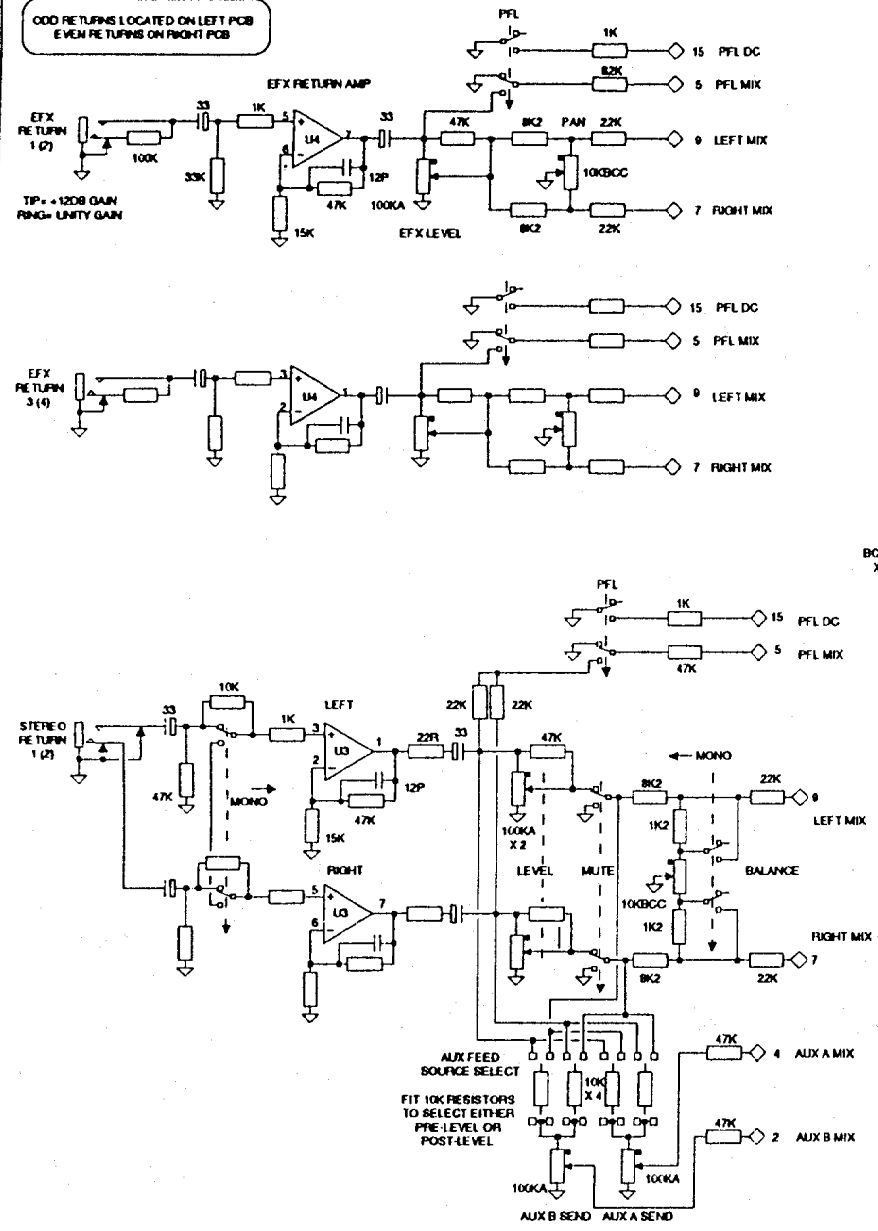LINE IN RESISTORS TO 6K8 (2 PLACES).

◁◯ □ INDICATES NEG CAP LEAD

AUX SENDS FROM STEREO RETURN
SELECT PRE OR POST LEFT AND RIGHT FOR EACH OF 2 SENDS
LEFT AND RIGHT SIGNALS WILL BE MIXED FOR EACH SEND

AUX B   AUX A
□ □ □ □   □ □ □ □
□ □ □ □   □ □ □ □

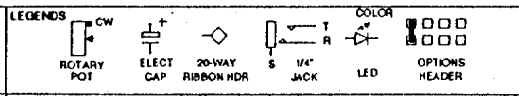POST   PRE   POST   PRE
LEFT   LEFT RIGHT RIGHT
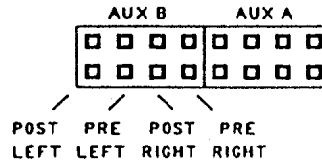
SCEPTER LEFT/RIGHT PCB   ISSUE 3   MAR 91.
PARTS PLACEMENT & OPTION HEADER LOCATIONS

HEADERS SHOWN ON PCB WITH JUMPERS SET AT FACTORY DEFAULT.

ODD RETURNS LOCATED ON LEFT PCB
EVEN RETURNS ON RIGHT PCB

EFX RETURN AMP

EFX RETURN 1 (2)
TIP = +12DB GAIN
RING = UNITY GAIN

FIT FERRITE BEAD AT L OR R

FIT 30K RESISTOR AT L OR R

L (R) BUS IN -20dBU

PEAK CIRCUIT ON 3dB BEFORE CLIP

RIBBON HEADER TO MASTER PCB
LINK (4 PLACES) TO SELECT LEFT OR RIGHT

STEREO RETURN 1 (2)

AUX FEED SOURCE SELECT
FIT 10K RESISTORS TO SELECT EITHER PRE-LEVEL OR POST-LEVEL

AUX B SEND   AUX A SEND

LED SUPPLY

SUPPLY FEED TO AUDIO ICS VIA DECOUPLING

PIN 8 INDIVIDUAL SUPPLY FEEDS TO U3,4
PIN 4

PIN 8, PIN 7 SUPPLY FEED TO MIX AMPS U1,2
PIN 4

METER DRIVER VU TYPE RESPONSE 0VU = +4DBU

L (R) BALANCED OUT

PIN 1 LIFT (REAR)

UNLESS OTHERWISE NOTED:
ALL ELECT CAPS 25V VALUES IN uF OTHER VOLT CAPS SHOWN VAL/VOLTS
ALL DISC AND MYLAR CAPS RATED 50V OR HIGHER VALUES IN uF
ALL RESISTORS 1/4W 5% 1% RES INDICATED WITH 3 DIGITS (EG 6K81)
ALL SWITCHES SHOWN DESELECTED
ALL DIODES 1N4148

LEGENDS
ROTARY POT   ELECT CAP   20-WAY RIBBON HDR   1/4" JACK   LED   OPTIONS HEADER

IC LOCATIONS

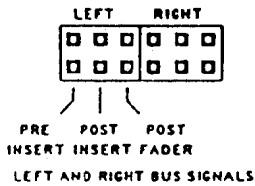| DATE	COMMENTS	DRWN	CHKD
MAR 91	ISS 3 PCB. NEW EBOS IC, VISION HEADERS	JFP	JFP
OCT 89	ISSUE 2 20 WAY DUAL HEADER NEW MONO SW	JFP	JFP
AUG 89	ORIGINAL - ISSUE 1 PRODUCTION	JFP	JFP

UNIT TITLE: SCEPTER / VISION MIXER- LEFT/RIGHT SCHEMATIC

DRAWING TITLE: CIRCUIT DIAGRAM PCB AG0238 ISSUE 3

ALLEN & HEATH
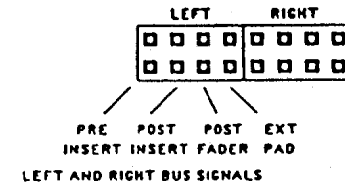PROFESSIONAL AUDIO EQUIPMENT MANUFACTURERS

DRAWING NO   ISSUE
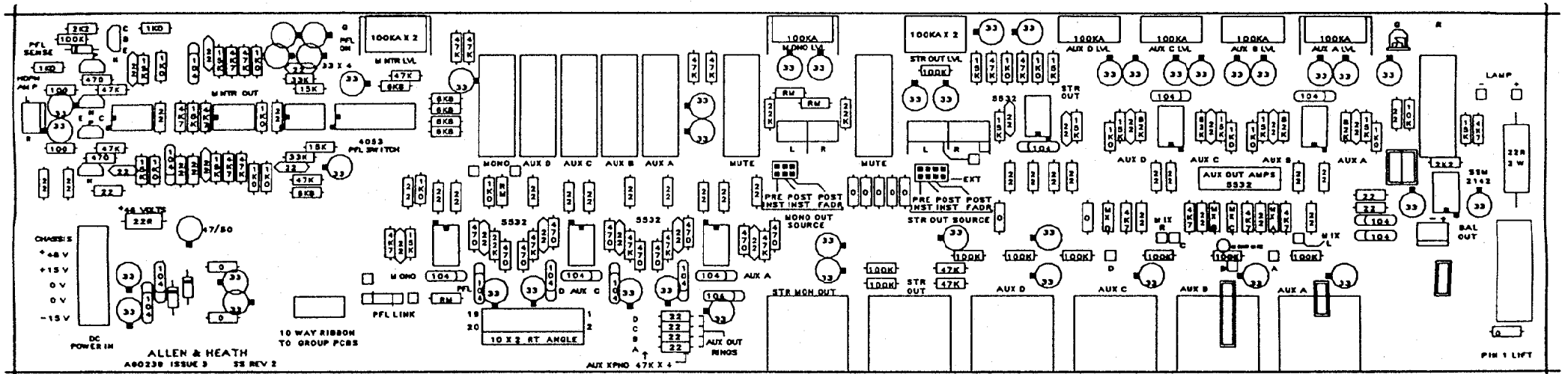
□ INDICATES NEG CAP LEAD
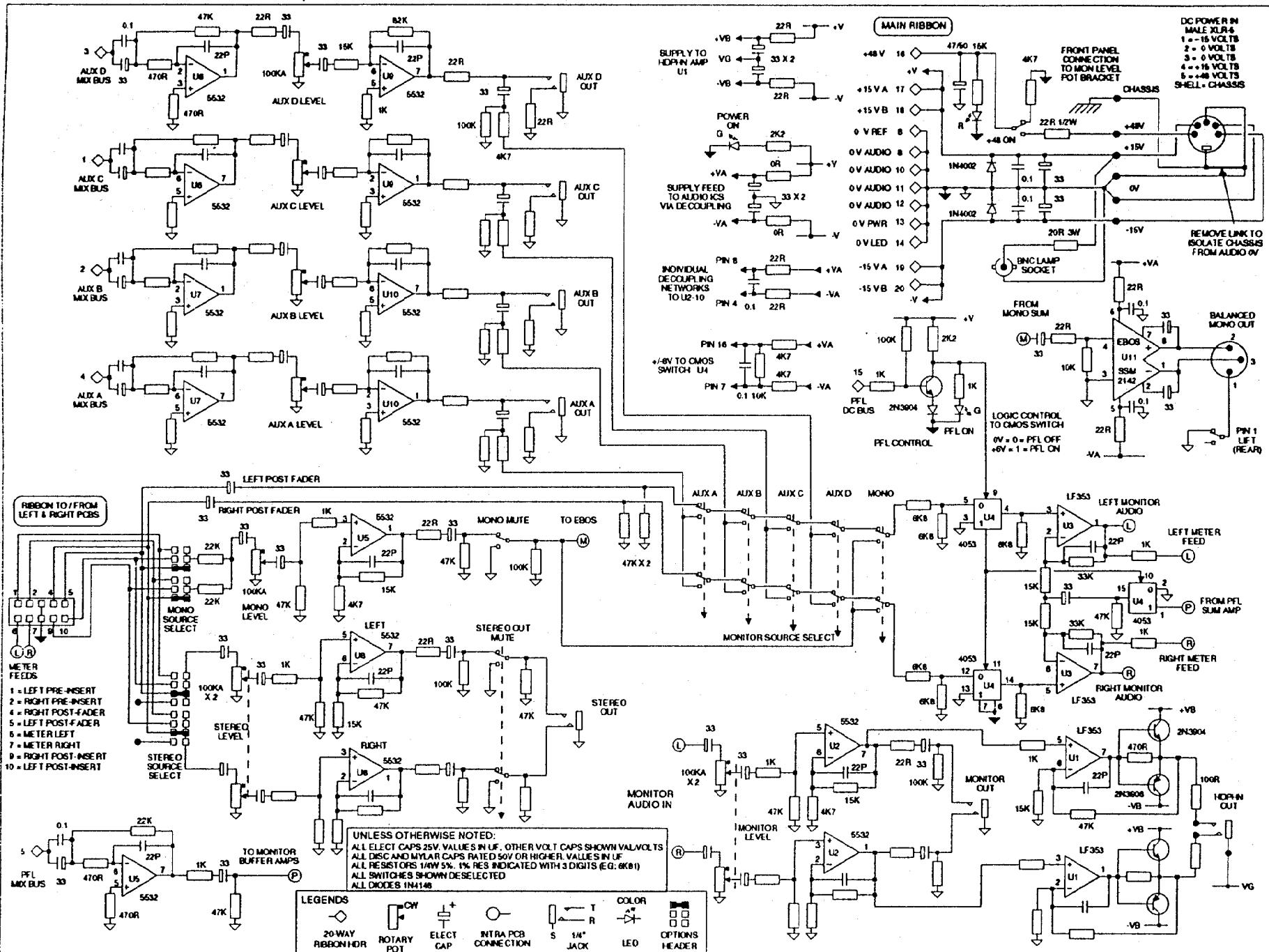
MONO OUTPUT SOURCE SELECT
MIXES LEFT AND RIGHT SIGNALS TOGETHER

LEFT   RIGHT

PRE   POST   POST
INSERT INSERT FADER

LEFT AND RIGHT BUS SIGNALS

STEREO OUTPUT SOURCE SELECT

LEFT   RIGHT

PRE   POST   POST   EXT
INSERT INSERT FADER   PAD

LEFT AND RIGHT BUS SIGNALS

SCEPTER MASTER PCB   ISSUE 3   MAR 91.
PARTS PLACEMENT & OPTION HEADER LOCATIONS

HEADERS SHOWN ON PCB WITH JUMPERS SET AT FACTORY DEFAULT.

ALLEN & HEATH
A00238 ISSUE 3   SS REV 2

SCEPTER / VISION - MASTER PCB SCHEMATIC

ALLEN & HEATH
PROFESSIONAL AUDIO EQUIPMENT MANUFACTURERS

DRAWING TITLE: CIRCUIT DIAGRAM PCB AG0239 ISSUE 3

UNLESS OTHERWISE NOTED:
ALL ELECT CAPS 25V. VALUES IN UF. OTHER VOLT CAPS SHOWN VAL/VOLTS
ALL DISC AND MYLAR CAPS RATED 50V OR HIGHER. VALUES IN UF
ALL RESISTORS 1/4W 5%. 1% RES INDICATED WITH 3 DIGITS (EG: 6K81)
ALL SWITCHES SHOWN DESELECTED
ALL DIODES 1N4148

LEGENDS

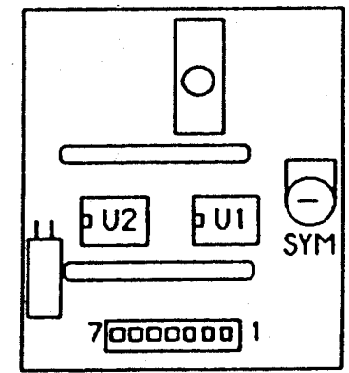20-WAY RIBBON HDR | ROTARY POT | ELECT CAP | INTRA PCB CONNECTION | 1/4" JACK | LED | OPTIONS HEADER

METER FEEDS
1 = LEFT PRE-INSERT
2 = RIGHT PRE-INSERT
4 = RIGHT POST-FADER
5 = LEFT POST-FADER
6 = METER LEFT
7 = METER RIGHT
9 = RIGHT POST-INSERT
10 = LEFT POST-INSERT

DC POWER IN
MALE XLR-5
1 = -15 VOLTS
2 = 0 VOLTS
3 = 0 VOLTS
4 = +15 VOLTS
5 = +48 VOLTS
SHELL = CHASSIS

DATE	COMMENTS	DRWN	CHKD
MAR 91	ISS 3 PCB NEW EBOS IC, VISION HEADERS	JRP	JRP
OCT 89	ISS 2 PCB NO CAP AUX OUT, 20 WAY RIBBON	JRP	JRP
AUG 89	ORIGINAL - ISSUE 1 PRODUCTION	JRP	JRP

UNBAL INPUT -2dBv 5

22R

U1

2

3

1

V+ 2 PIN 8

0.1U TO OPAMPS

V- 1 PIN 4

0 VOLTS 4

SYMMETRY

300R

U1

6

5

7

22P

U2

6

5

7

22R

7 OUT +

10P

4K75

33U

BALANCED OUTPUT +4dBv

U2

3

2

1

22R

6 OUT -

22P

ALL UNMARKED RESISTORS ARE 10K 2% RESISTOR NETWORK
ALL DISC CAPS NPO CERAMIC 50 VOLT

U1 = LF353
U2 = NE5532

COMPONENT SIDE VIEW
EBOS 2

U2   U1

SYM

7 1

Electronically Balanced Output Stage

T1

TRANS-TRONIC P1025

MPS 78 PCB
PCB TYPE AG0070
ISSUE 1 1

220

BR1 MPS8 · 2AMP 200V

IC1
7815

ORANGE

110

C1 220/50   C2 220/35   C3 0.04   C6 0.04   C7 47/40   R1 1K7   F5 +15VDC

IN4002 D1
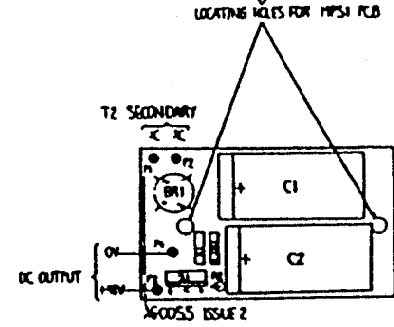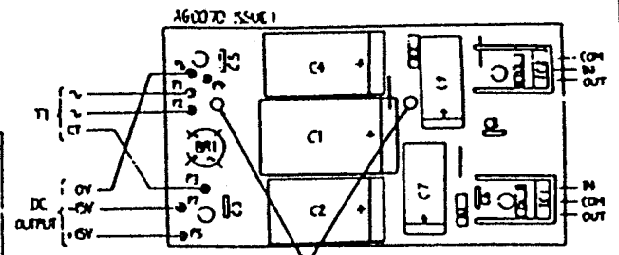
BROWN

130v
VARISTOR

230

100

ORANGE

GREEN

F6 0V

C4 220/35   C5 0.04   C8 0.04   C9 47/40   R2 1K7

GREEN

IN4002 D2

IC2
7915

F7 -15VDC

AG0070 ISSUE 1

T1

DC OUTPUT   0V / -15V / +15V

LOCATING HOLES FOR MPS1 PCB
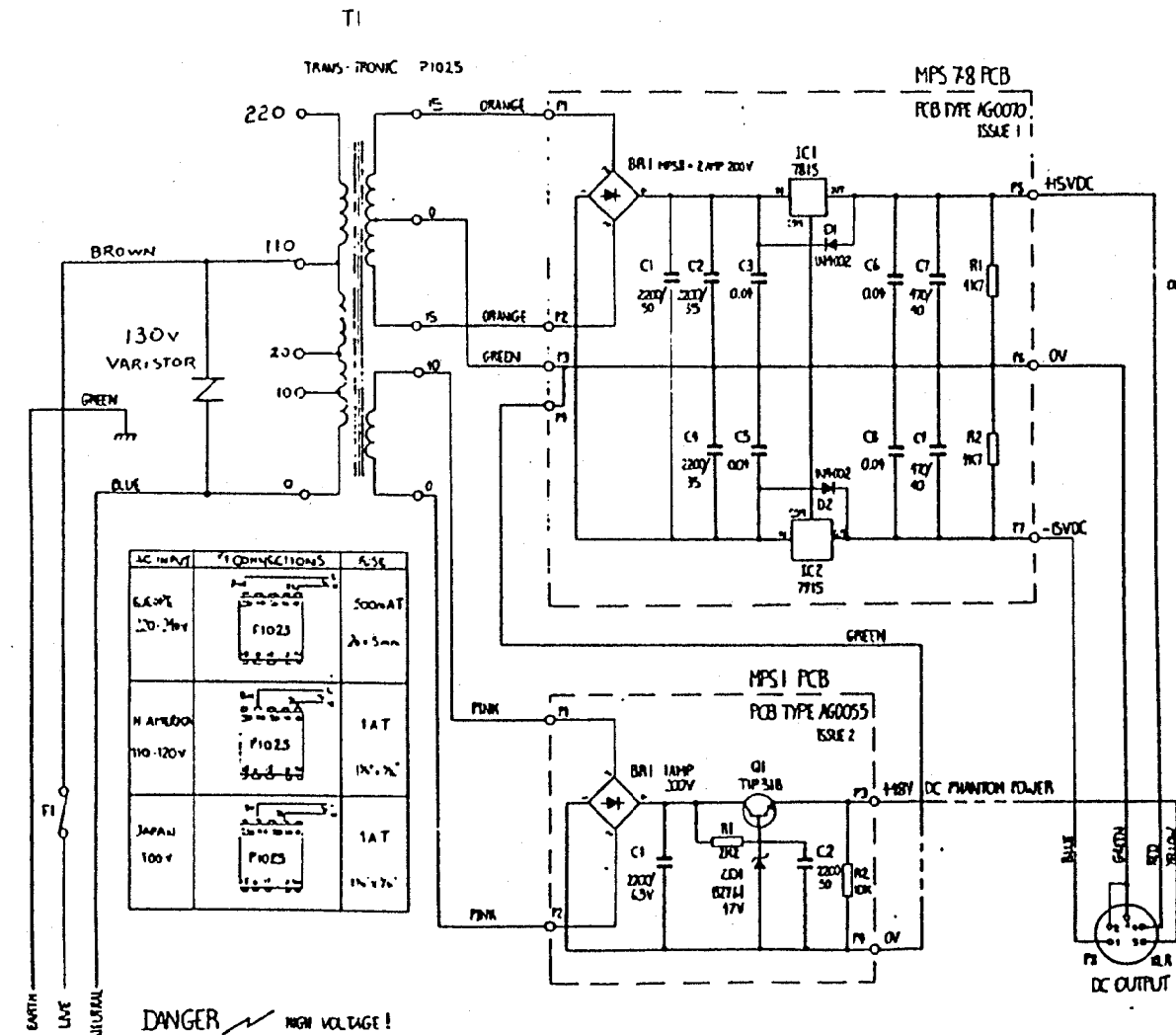
AC INPUT	CONNECTIONS	FUSE
EUROPE 220-240v	P1025	500mAT λ=5mm
N AMERICA 110-120v	P1025	1AT
JAPAN 100v	P1025	1AT

T2 SECONDARY

BR1   C1   C2

DC OUTPUT   0V / +15V

AG0055 ISSUE 2

GREEN

MPS1 PCB
PCB TYPE AG0055
ISSUE 2

PINK

BR1 1AMP 200V

Q1
TIP31B

F3 +48V DC PHANTOM POWER

PINK

C1 220/63V   R1 2K2   ZD1 BZX61 47V   C2 220/50   R2 10K

F4 0V

GREEN

DC OUTPUT

MPS8R DETAIL.

F1

EARTH   LIVE   NEUTRAL

DANGER HIGH VOLTAGE!

AC MAINS INPUT 50/60 HZ SEE NOTE ABOVE

7	MPS8R - VARISTOR ADDED		JP	1·8?
6	MPS1 C1=63V, FUSES·T, DC CABLE COLOURS		CP	7·7?
5	MPS8P ONLY		?	11·84
No	DESCRIPTION		CHK'D APP'D	DATE
REVISIONS				

AHB POWER SUPPLY MPS8P CIRCUITS AND GENERAL ARRANGEMENT
INCLUDING PHANTOM POWER.

DRAWN	TRACED	CHECKED	APPROVED	DATE	SCALE
CP				9-9-82	

DRAWING No. 283   ISSUE 6