

MAIN PROGRAMME PATHS : INPUTS / OUTPUTS

This Section of the Handbook provides all the wiring information needed to install a 51 SERIES console.

Please note that the following data is accurate at the time of publication, and applies only to standard 51 SERIES consoles. The Authors will endeavour to continually update this information when changes are made to standard consoles, and to provide individual Addenda for customised versions of the 51 SERIES.

INTRODUCTION

All console inputs, outputs, insertion sends/returns and DC control lines are available on multiway connectors at the rear of the console.

There are four different Panels where these can be found :

1. CUSTOMER CONNECTOR PANELS

A Customer Connector Panel is located in each 12 Channel console section. It provides 12 Channels of audio inputs/outputs and DC control lines for customer wiring.

2. MONITOR & FACILITIES RACK REAR CONNECTOR PANEL

The Monitor & Facilities Rack rear connector panel contains connectors for internal console wiring, but also provides all Facilities, Monitoring and DC control lines inputs/outputs for customer wiring.

3. DC DISTRIBUTION PANEL

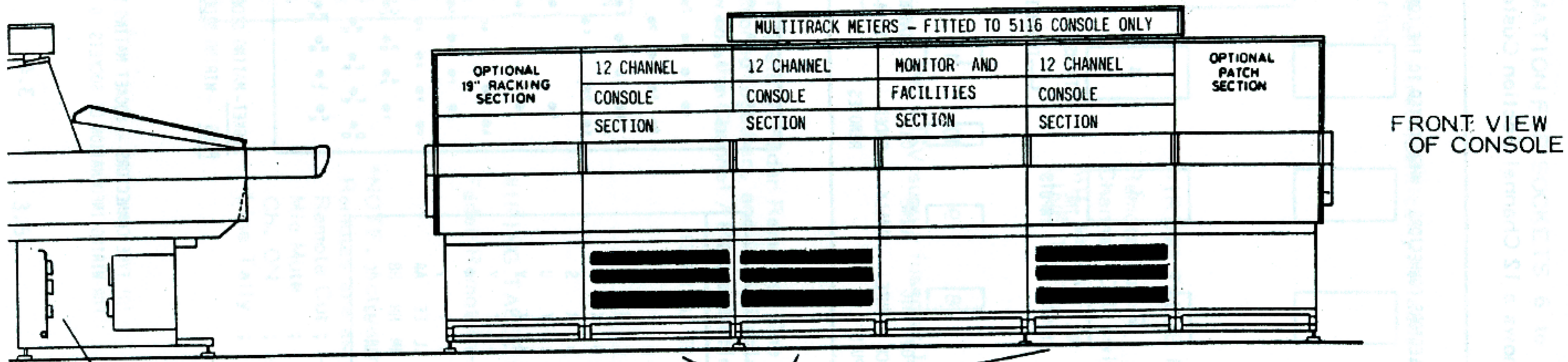
This contains the console DC Distribution block, and is the wiring point for the console's external supplies. On the same panel are connectors for the customer wiring of the console Tape Remotes modules.

4. MULTITRACK RACK CONNECTOR PANEL ** 5116 CONSOLES **

The Multitrack Rack rear connector panel contains connectors for internal console wiring, but also provides for customer wiring of the following:

- 24 Track Tape Inputs - Tracks 1-24 Record Inputs from 5116 Channels 1-24 Direct Outputs.
- 24 Track Tape Outputs - Tracks 1-24 Playback Outputs.

The following information deals with each type of connector panel in turn, showing its location, identifying each socket, and listing signal/pin numbering.



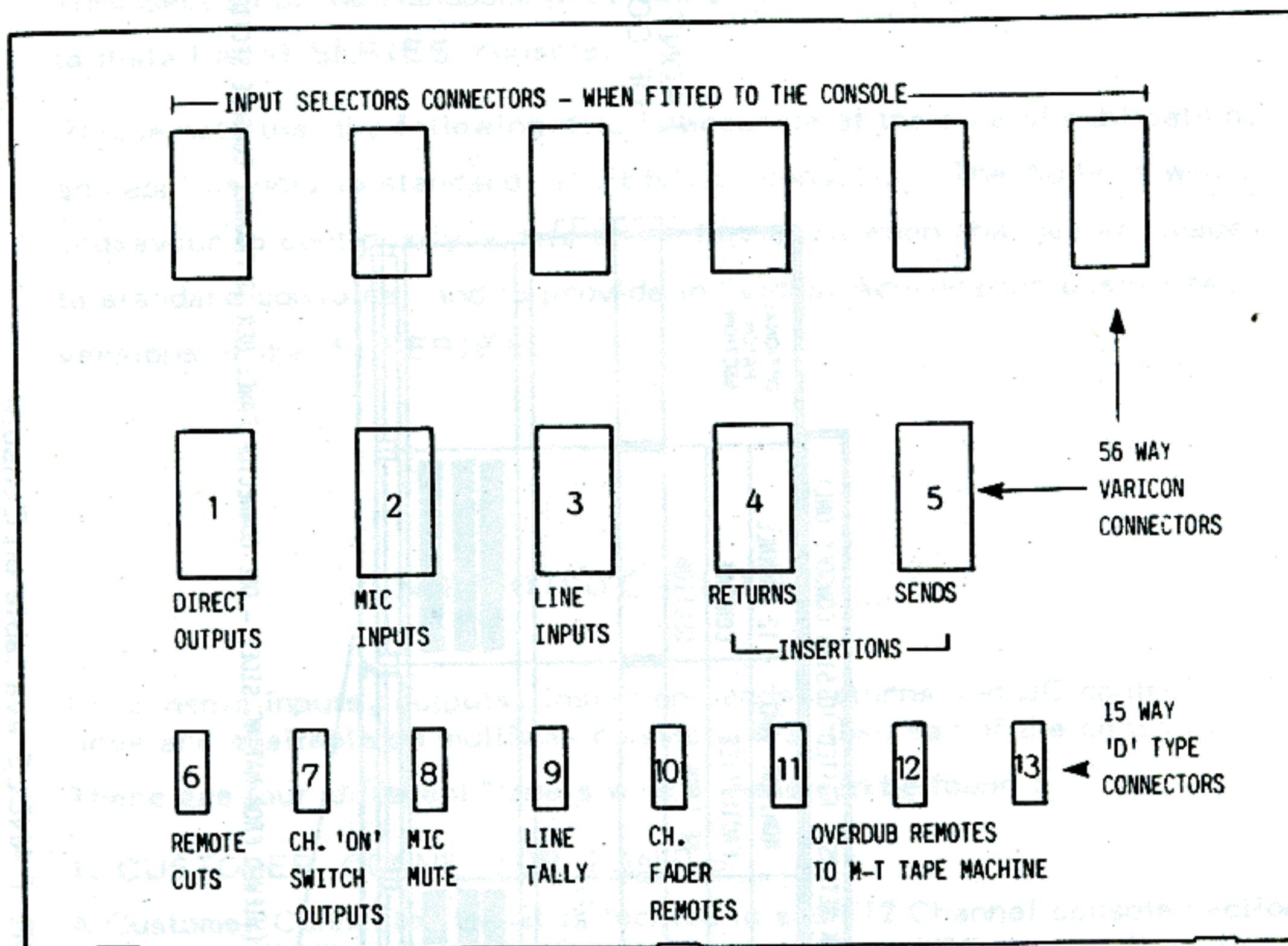
CUSTOMER CONNECTOR PANEL (VIEWED FROM SIDE)

CUSTOMER CONNECTOR PANELS (VIEWED FROM MATING SIDE) - ONE CONNECTOR PANEL PER 12 CHANNEL CONSOLE SECTION

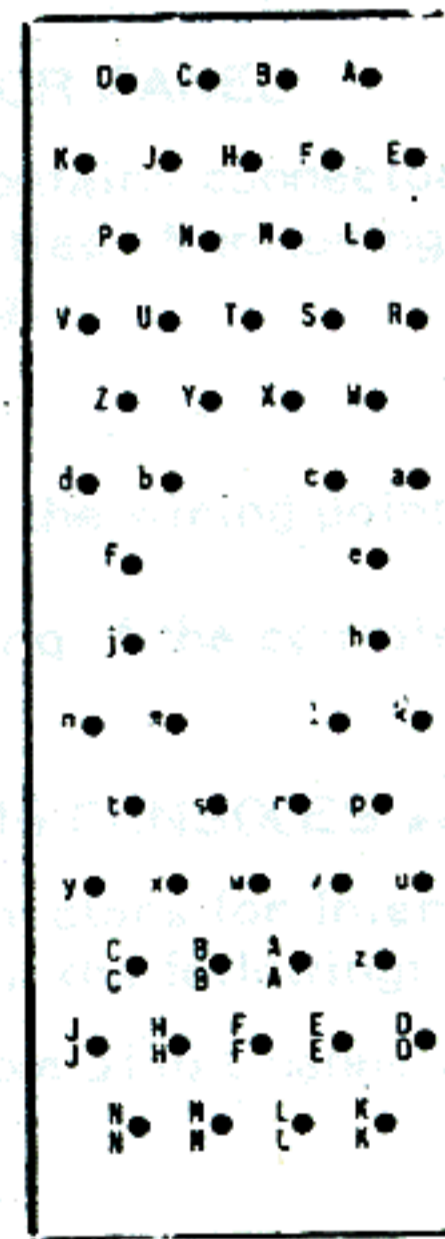
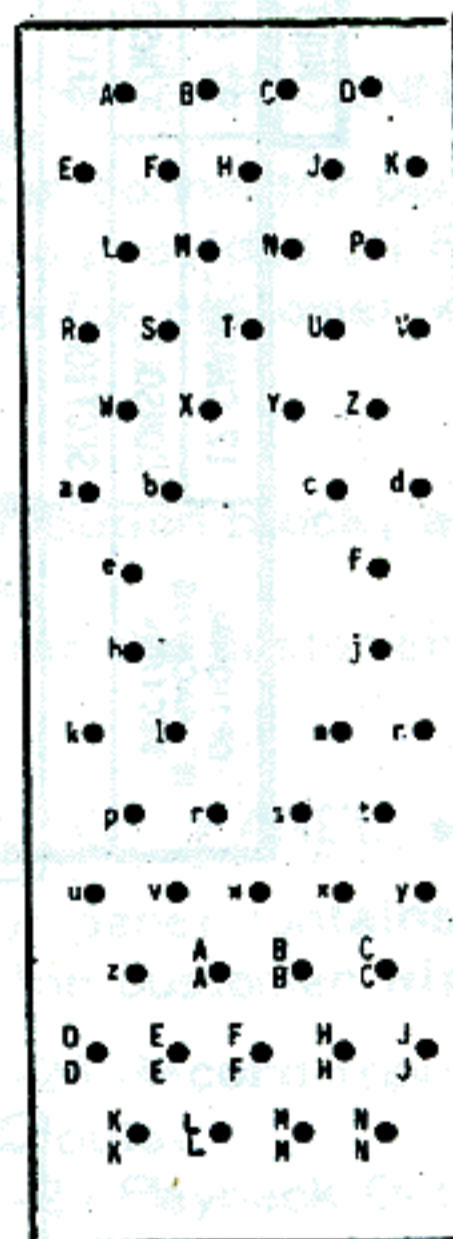
CUSTOMER CONNECTOR PANELS available on Console.
 (36 Channel Console illustrated)

CUSTOMER CONNECTOR PANELS

Drawing below shows a 12 Channel Section Customer Connector Panel - MATING side



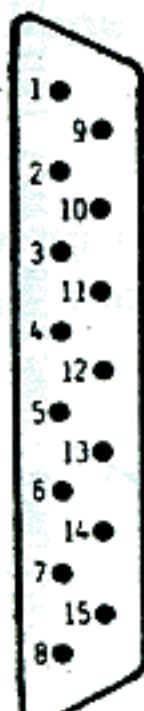
SOCKETS 1 to 5 PIN NUMBERING						
CHANNEL NUMBERING	HI	LO	SCREEN	HI	LO	SCREEN
1	13	25	37	B	F	M
2	14	26	38	C	J	N
3	15	27	39	D	K	P
4	16	28	40	b	X	S
5	17	29	41	c	Y	U
6	18	30	42	d	Z	V
7	19	31	43	l	r	v
8	20	32	44	m	s	x
9	21	33	45	n	t	y
10	22	34	46	LL	EE	AA
11	23	35	47	MM	HH	BB
12	24	36	48	NN	JJ	CC



56 WAY
VARICON
CONNECTORS

SOCKET - MATING SIDE
PLUG - WIRING SIDE

WIRING SIDE
MATING SIDE



'D' TYPE CONNECTORS - SOCKET MATING SIDE.
FOR WIRING INFORMATION OF SOCKETS 6 to 13, REFER TO TABLES OVERLEAF.

CUSTOMER CONNECTOR PANELS

WIRING INFORMATION FOR SOCKETS 6 to 13

Sockets 6, 7, 8 and 9 are all wired identically. Please refer to the Table below for Channel / Pin numbering.

CHANNEL NUMBERING				PIN
1	13	25	37	10
2	14	26	38	2
3	15	27	39	11
4	16	28	40	3
5	17	29	41	12
6	18	30	42	4
7	19	31	43	13
8	20	32	44	5
9	21	33	45	14
10	22	34	46	6
11	23	35	47	15
12	24	36	48	7
				0V 1
				-15V 9
				N/C 8

* WIRING TABLE FOR :

Remote Cuts - Socket 6
 Channel 'ON' switch Outputs - Socket 7
 MIC Mutes - Socket 8
 LINE Tallies Socket 9

0V, -15V supply fused at 1A for external equipment

Socket 10 contains 12 channels of Fader Remotes. One side of all the Fader Remote switches is commoned together, and is available on pin 7. Please refer to the Table below for the Channel / Pin numbering of the other switch contacts.

CHANNEL NUMBERING				PIN
1	13	25	37	1
2	14	26	38	9
3	15	27	39	2
4	16	28	40	10
5	17	29	41	3
6	18	30	42	11
7	19	31	43	4
8	20	32	44	12
9	21	33	45	5
10	22	34	46	13
11	23	35	47	6
12	24	36	48	14
FADER COMMON				7
				N/C { 15
				8

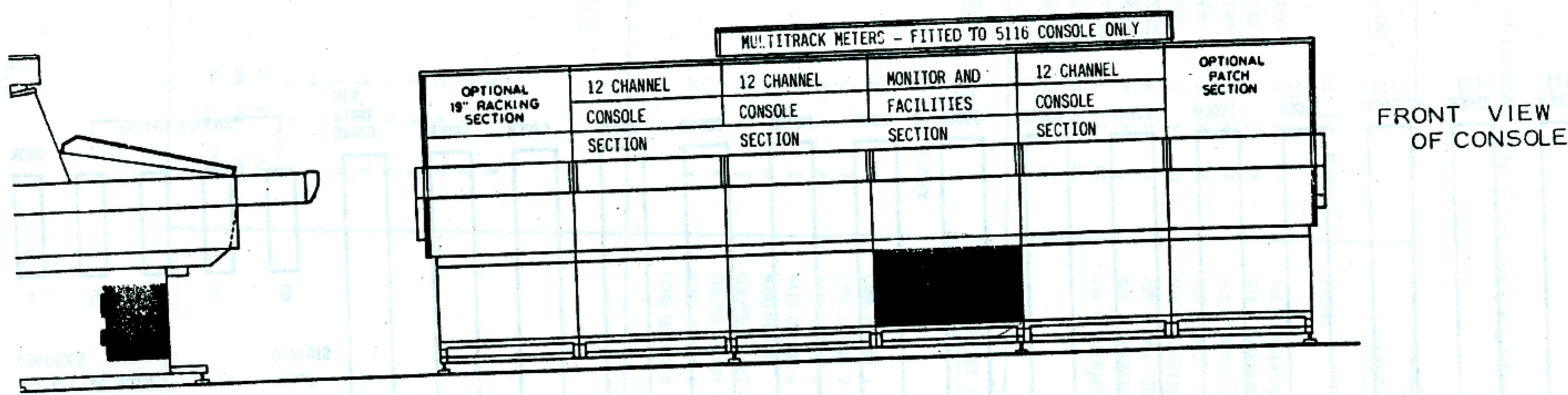
WIRING TABLE FOR :

Fader Remotes - Socket 10

*NOTE. Activating voltages for these

Remotes are as follows :

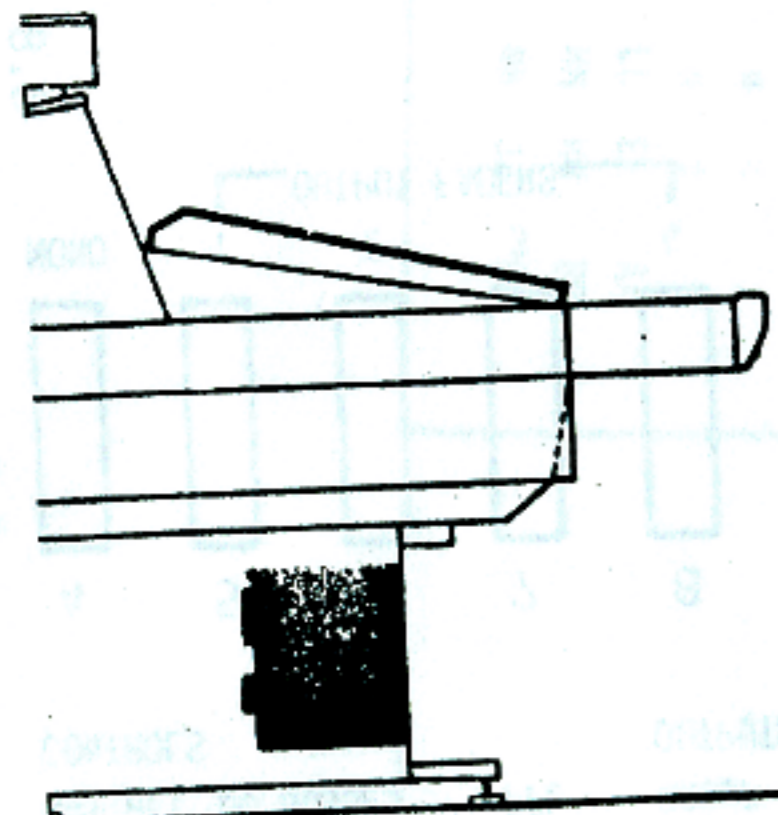
Remote Cut ; -15V
 Mic Mute ; 0V
 Ch. ON ; -15V
 Line Tally ; 0V



MULTITRACK METERS - FITTED TO 5116 CONSOLE ONLY

OPTIONAL 19" RACKING SECTION	12 CHANNEL CONSOLE SECTION	12 CHANNEL CONSOLE SECTION	MONITOR AND FACILITIES SECTION	12 CHANNEL CONSOLE SECTION	OPTIONAL PATCH SECTION

FRONT VIEW OF CONSOLE



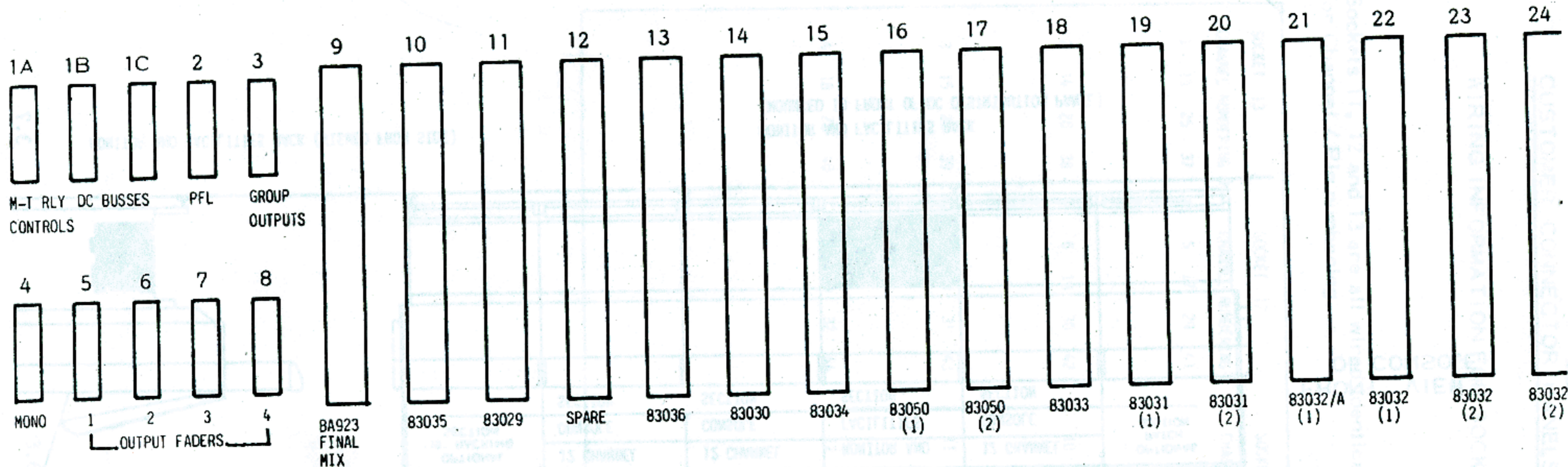
MONITOR AND FACILITIES RACK (VIEWED FROM SIDE)

MONITOR AND FACILITIES RACK (MOUNTED IN FRONT OF DC DISTRIBUTION PANEL)

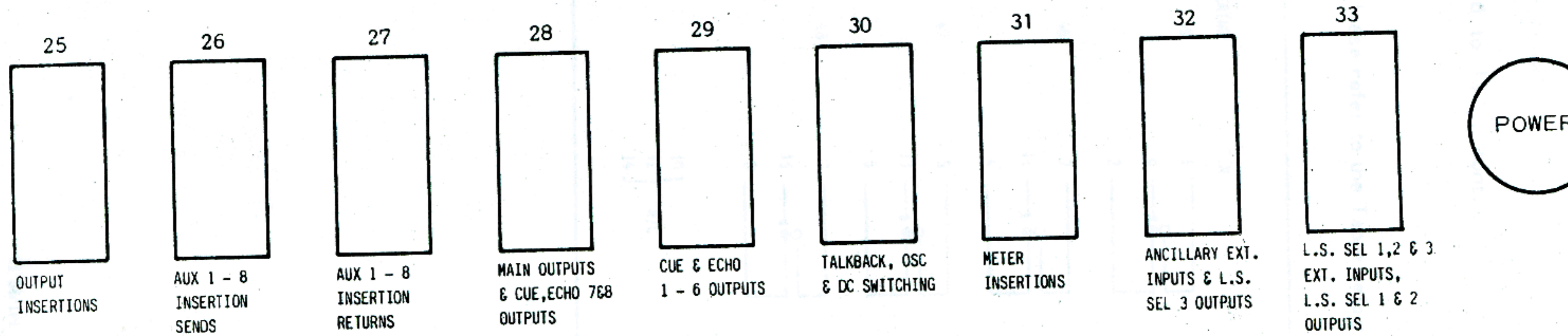
MONITOR AND FACILITIES RACK
(36 Channel Console illustrated)

3.7

MONITOR AND FACILITIES RACK : REAR PANEL CONNECTORS - Mating Side



3.8



WIRING INFORMATION FOR SOCKETS 25 to 33

WIRING INFORMATION FOR SOCKETS 25 to 33

<u>SOCKET 25 PIN NUMBERING</u>				<u>SOCKET 26 PIN NUMBERING</u>			
SIGNAL	HI	LO	SCREEN	SIGNAL	HI	LO	SCREEN
MAIN OUTPUT 1 INSERTION SEND	B	F	M	AUX 1 INSERTION SEND	B	F	M
MAIN OUTPUT 2 INSERTION SEND	C	J	N	AUX 2 INSERTION SEND	C	J	N
MAIN OUTPUT 3 INSERTION SEND	D	K	P	AUX 3 INSERTION SEND	D	K	P
MAIN OUTPUT 4 INSERTION SEND	b	X	S	AUX 4 INSERTION SEND	b	X	S
MONO OUTPUT INSERTION SEND	c	Y	U	AUX 5 INSERTION SEND	c	Y	U
MAIN OUTPUT 1 INSERTION RETURN	m	s	x	AUX 6 INSERTION SEND	d	Z	V
MAIN OUTPUT 2 INSERTION RETURN	n	t	y	AUX 7 INSERTION SEND	l	r	v
MAIN OUTPUT 3 INSERTION RETURN	LL	EE	AA	AUX 8 INSERTION SEND	m	s	x
MAIN OUTPUT 4 INSERTION RETURN	MM	HH	BB				
MONO OUTPUT INSERTION RETURN	NN	JJ	CC				

<u>SOCKET 27 PIN NUMBERING</u>				<u>SOCKET 28 PIN NUMBERING</u>			
SIGNAL	HI	LO	SCREEN	SIGNAL	HI	LO	SCREEN
AUX 1 INSERTION RETURN	B	F	M	LINE OUTPUT 1	B	F	M
AUX 2 INSERTION RETURN	C	J	N	LINE OUTPUT 2	C	J	N
AUX 3 INSERTION RETURN	D	K	P	MAIN OUTPUT 3	D	K	P
AUX 4 INSERTION RETURN	b	X	S	MAIN OUTPUT 4	b	X	S
AUX 5 INSERTION RETURN	c	Y	U	MONO OUTPUT	c	Y	U
AUX 6 INSERTION RETURN	d	Z	V	CUE/FB OUTPUT 7	n	t	y
AUX 7 INSERTION RETURN	l	r	v	CUE/FB OUTPUT 8	LL	EE	AA
AUX 8 INSERTION RETURN	m	s	x	ECHO OUTPUT 7	MM	HH	BB
				ECHO OUTPUT 8	NN	JJ	CC

<u>SOCKET 29 PIN NUMBERING</u>			
SIGNAL	HI	LO	SCREEN
CUE/FB OUTPUT 1	B	F	M
CUE/FB OUTPUT 2	C	J	N
CUE/FB OUTPUT 3	D	K	P
CUE/FB OUTPUT 4	b	X	S
CUE/FB OUTPUT 5	c	Y	U
CUE/FB OUTPUT 6	d	Z	V
ECHO OUTPUT 1	l	r	v
ECHO OUTPUT 2	m	s	x
ECHO OUTPUT 3	n	t	y
ECHO OUTPUT 4	LL	EE	AA
ECHO OUTPUT 5	MM	HH	BB
ECHO OUTPUT 6	NN	JJ	CC

MONITOR AND FACILITIES RACK CONNECTOR LISTS

WIRING INFORMATION FOR SOCKETS 25 to 33

SOCKET 30 PIN NUMBERING				SOCKET 31 PIN NUMBERING			
SIGNAL	HI	LO	SCREEN	SIGNAL	HI	LO	SCREEN
RETURN PLAYBACK INPUT	A	E	L	STEREO METER L INSERTION SEND	B	F	M
TALKBACK OUTPUT	D	K	P	STEREO METER R INSERTION SEND	C	J	N
OSCILLATOR OUTPUT	C	J	N	PHASE METER L INSERTION SEND	D	K	P
				PHASE METER R INSERTION SEND	b	X	S
			<u>D.C.</u>	MONO METER INSERTION SEND	c	Y	U
TX SWITCH EXT. DC INPUT			a	ANCILLARY METER INSERTION SEND	d	Z	V
TX SWITCH EXT. DC OUTPUT			b	STEREO METER L INSERTION RETURN	l	r	v
NORM SWITCH EXT. DC INPUT			c	STEREO METER R INSERTION RETURN	m	s	x
NORM SWITCH EXT. DC OUTPUT			d	PHASE METER L INSERTION RETURN	n	t	y
REH SWITCH EXT. DC INPUT			w	PHASE METER R INSERTION RETURN	LL	EE	AA
REH SWITCH EXT. DC OUTPUT			x	MONO METER INSERTION RETURN	MM	HH	BB
TX SWITCH INT. DC OUTPUT			y	ANCILLARY METER INSERTION RETURN	NN	JJ	CC
MONITOR DIM EXT. DC INPUT			e				
MONITOR CUT EXT. DC INPUT			h				
CLS 1 CUT EXT. DC INPUT			f				
CLS 2 CUT EXT. DC INPUT			j				
TAPE REMOTES TO CONSOLE DC INPUT			z				
LOGIC OV			R				
LOGIC 15V			S				
OPTIONAL TALKBACK KEYSWITCH 1 INPUT			KK				
OPTIONAL TALKBACK KEYSWITCH 2 INPUT			LL				
OPTIONAL TALKBACK KEYSWITCH 3 INPUT			MM				
OPTIONAL TALKBACK KEYSWITCH 4 INPUT			NN				
5 INPUT			DD				
6 INPUT			EE				
7 INPUT			HH				
8 INPUT			JJ				
1 OUTPUT			z				
1 OUTPUT			AA				
2 OUTPUT			BB				
2 OUTPUT			CC				
3 OUTPUT			u				
3 OUTPUT			v				
4 OUTPUT			x				
4 OUTPUT			y				
5 OUTPUT			p				
5 OUTPUT			r				
6 OUTPUT			s				
6 OUTPUT			t				
7 OUTPUT			k				
7 OUTPUT			l				
8 OUTPUT			m				
8 OUTPUT			n				

SOCKET ³² 31 PIN NUMBERING			
SIGNAL	HI	LO	SCREEN
EXT. ANCILLARY METER INPUT 1	B	F	M
EXT. ANCILLARY METER INPUT 2	C	J	N
EXT. ANCILLARY METER INPUT 3	D	K	P
EXT. ANCILLARY METER INPUT 4	b	X	S
EXT. ANCILLARY METER INPUT 5	c	Y	U
EXT. ANCILLARY METER INPUT 6	d	Z	V
EXT. MONO METER INPUT	l	r	v
L.S. SEL 3 OUTPUT LEFT	MM	HH	BB
L.S. SEL 3 OUTPUT RIGHT	NN	JJ	CC

pentot 9214?

MONITOR AND FACILITIES RACK CONNECTOR LISTS

WIRING INFORMATION FOR SOCKETS 25 to 33

SOCKET 33 PIN NUMBERING			
SIGNAL		HI	LO SCREEN
L.S. SEL 1 EXT. INPUT LEFT	1	B	F M
L.S. SEL 1 EXT. INPUT RIGHT	2	C	J N
L.S. SEL 2 EXT. INPUT LEFT	3	D	K P
L.S. SEL 2 EXT. INPUT RIGHT	4	b	X S
L.S. SEL 3 EXT. INPUT LEFT	5	c	Y U
L.S. SEL 3 EXT. INPUT RIGHT	6	d	Z V
L.S. SEL 4 EXT. INPUT LEFT	7	l	r v
L.S. SEL 4 EXT. INPUT RIGHT	8	m	s x
L.S. SEL 1 OUTPUT LEFT		n	t y
L.S. SEL 1 OUTPUT RIGHT		LL	EE AA
L.S. SEL 2 OUTPUT LEFT		MM	HH BB
L.S. SEL 2 OUTPUT RIGHT		NN	JJ CC