PC line

PC115-PC212-PC115W

PC212W-PC1000-PC212/2-PCSUB

PC PRO-PCPROW-PCTD

Service manual

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I. PC CABINETS REFERENCE GUIDE

I.1. Cabinets spare parts

I.1.a. PC 115 Parts list

GROUP	PART DESIGNATION		PART NAME Ver J Dates : 07/86 to 11/88 Serial N. : prior to 1653	PART NAME Ver R Dates : after 11/88 Serial N. : after 1653
Transducers	HF	Driver	HPA1048	HPA4828
		Horn	PAVHM	PAVHM
		Spare diaphragm & Ferrofluid	HPAD16 [a]	HPARK
	MF	Loudspeaker (x 2)	PC.HPM115G	PC.HPM115G
	LF	Loudspeaker	PC.HPB115	PC.HPB115
		Recone kit	PC.HPB115K	PC.HPB115K
Passive crossover	Complete filter		FPC115 [b]	FPC115 [b]
	Spare parts		see separate parts list	see separate parts list
Required controller	Complete unit		PCPRO or PCTD [c]	PCPRO or PCTD [c]
	Spare parts		see separate parts list	see separate parts list

Miscellaneous	Input connector	NC3FPB	NC3FPB
	Link connector	NC3MPB	NC3MPB
	Front foam	MFA115	MFA115
	HF horn mounting plate	APRPC	APRPC
	Flying rail (optional)(x 3)	FLYRAIL3	FLYRAIL3
	Rings for Flying rail	FLYANSP	FLYANSP
	Container	CONT115	CONT115
	Ferrofluid for HF driver	-	FERHF [d]

[a] The original HF diaphragms of Version J (ref HPAJK) are no longer available ; replacement with the HPAD16 part - equivalent to JBL D16R2425 - may not achieve 100% of the initial performance. For improved performance and total compatibility with other PC systems it is recommended to upgrade the HF section into Vers R.

[b] The first release of the Version J (FPC115 J1B) should be upgraded into the 2nd (FPC115 J1C) if servicing is required. On the Version R there has been 2 successive releases (FPC115 R1 and FPC115 R2) ; the 1st release (FPC115 R1) was used on cabinets with serial numbers prior to 2377.

[c] The PCPro has been replaced by the PCTDController since March 1992.

On PCPro delivered after January 1991 (serial number 1930) , the Sub bass channel provided to operate with the optional PCSub has been suppressed.

[d] There has been 2 successive upgrades of the ferrofluid. The newest type (which has much improved longevity and can withstand higher temperatures) should be used when replacing the diaphragm.

I.1.b. PC 212 Parts list

GROUP	PART DESIGNATION	PART NAME Ver J Dates : 07/86 to 11/88Serial N. : prior to	PART NUMBER Ver R Dates : after 11/88Serial N. : after
Transducers	HF Driver	HPA1048	HPA4828
	Horn	PAVHM	PAVHM
	Spare diaphragm & Ferrofluid	HPAD16 [a]	HPARK
	MF Loudspeaker (x 2)	PC.HPM212G	PC.HPM212G
	LF Loudspeaker (x 2)	PC.HPB212	PC.HPB212
	Recone kit	PC.HPB212K	PC.HPB212K
Passive crossover	Complete filter	FPC212 [b]	FPC212 [b]
	Spare parts	see separate parts list	see separate parts list
Required controller	Complete unit	PCPRO or PCTD [c]	PCPRO or PCTD [c]
	Spare parts	see separate parts list	see separate parts list
Miscellaneous	Input connector	NC3FPB	NC3FPB
	Link connector	NC3MPB	NC3MPB
	Front foam	MFA212	MFA212
	HF horn mounting plate	APRPC	APRPC
	Flying rail (optional)(x 3)	FLYRAIL3	FLYRAIL3
	Rings for Flying rail	FLYANSP	FLYANSP
	Container	CONT212	CONT212
	Ferrofluid for HF driver	-	FERHF [d]

[a] The original HF diaphragms of Version J (ref HPAJK) are no longer available ; replacement with the HPAD16 part - equivalent to JBL D16R2425 - may not achieve 100% of the initial performance. For improved performance and total compatibility with other PC systems it is recommended to upgrade the HF section into Vers R.

[b] The first release of the Version J (FPC212 J1B) should be upgraded into the 2nd (FPC212 J1C) if servicing is required. On the Version R there has been 2 successive releases (FPC212 R1 and FPC212 R2) ; the 1st release (FPC212 R1) was used on cabinets with serial numbers prior to 1744.

[c] The PCPro has been replaced by the PCTDController since March 1992.
On PCPro delivererd after January 1991 (serial number 1930) , the Sub bass channel provided to operate with the optional PCSub has been suppressed.

[d] There has been 2 successive upgrades of the ferrofluid. The newest type, which has much improved longevity and can withstand higher temperatures, should be used when replacing the HPARK diaphragm.

I.1.c. PC 115W Parts list

GROUP	PART DESIGNATION (x Qty)	PART NAME Vers J Dates : 07/86 to 11/88	PART NAME Vers R Dates : after 11/88
Transducers	HF Driver	HPA1048	HPA4828
	Horn	PAVHM	PAVHM
	Spare diaphragm & Ferrofluid	HPAD16 [a]	HPARK
	MF Loudspeaker (x 2)	PC.HPM115G	PC.HPM115G
	LF Loudspeaker	PC.HPB115	PC.HPB115
	Recone kit	PC.HPB115K	PC.HPB115K
Passive Crossover	Complete filter	FPC115 [b]	FPC115 [b]
	Spare parts	see separate parts list	see separate parts list
Required Controller	Complete unit	PCPROW or PCTD [c]	PCPROW or PCTD [c]
	Spare parts	see separate parts list	see separate parts list
Miscellaneous	Input connector	NC3FPB	NC3FPB
	Link connector	NC3MPB	NC3MPB
	Front foam	MFA115W	MFA115W
	Front grille	GM115W	GM115W
	HF horn mounting plate	APRPCW	APRPCW
	Flying rail (optional) (x 3)	FLYRAIL3	FLYRAIL3
	Rings for Flying rail	FLYANSP	FLYANSP
	Container	CONT115W	CONT115W
	Ferrofluid for HF driver	-	FERHF [d]

a) The original HF diaphragms of Version J (ref HPAJK) are no longer available ; replacement with the HPAD16 part - equivalent to JBL D16R2425 - may not achieve 100% of the initial performance. For improved performance and total compatibility with other PC systems it is recommended to upgrade the HF section into Vers R.

b) There has been 2 successive release of the passive cross-over for Version R (FPC115 R1 and FPC115 R2). The first was used on cabinets with serial numbers prior to ..

c) The PCProW has been replaced by the PCTDController since March 1992.

d) There has been 2 successive upgrades of the ferrofluid. The newest type, which has much improved longevity and can withstand higher temperatures, should be used when replacing the HPARK diaphragm.

I.1.d. PC 212W Parts list

GROUP	PART DESIGNATION		PART NAME Vers J Dates : 07/86 to 11/88	PART NAME Vers R Dates : after 11/88
Transducers	HF	Driver	HPA1048	HPA4828
		Horn	PAVHM	PAVHM
		Spare diaphragm & Ferrofluid	HPAD16 [a]	HPARK
	MF	Loudspeaker (x 2)	PC.HPM212G	PC.HPM212G
	LF	Loudspeaker (x 2)	PC.HPB212	PC.HPB212
		Recone kit	PC.HPB212K	PC.HPB212K
Passive Crossover	Complete filter		FPC212 [b]	FPC212 [b]
	Spare parts		see separate parts list	see separate parts list
Required Controller	Complete unit		PCPROW or PCTD [c]	PCPROW or PCTD [c]
	Spare parts		see separate parts list	see separate parts list
Miscellaneous	Input connector		NC3FPB	NC3FPB
	Link connector		NC3MPB	NC3MPB
	Front foam		MFA212W	MFA212W
	Front grille (x 2)		GM212W	GM212W
	HF horn mounting plate		APRPCW	APRPCW
	Flying rail (optional) (x 3)		FLYRAIL3	FLYRAIL3
	Rings for Flying rail		FLYANSP	FLYANSP
	Container		CONT212W	CONT212W
	Ferrofluid for HF driver		-	FERHF [d]

[a] The original HF diaphragms of Version J (ref HPAJK) are no longer available ; replacement with the HPAD16 part - equivalent to JBL D16R2425 - may not achieve 100% of the initial performance. For improved performance and total compatibility with other PC systems it is recommended to upgrade the HF section into Vers R.

[b] There has been 2 successive release of the passive cross-over for Version R (FPC115 R1 and FPC115 R2). The first was used on cabinets with serial number prior to ..

[c] The PCProW has been replaced by the PCTDController since March 1992.

[d] There has been 2 successive upgrades of the ferrofluid. The newest type, which has much improved longevity and can withstand higher temperatures, should be used when replacing the HPARK diaphragm.

I.1.e. PC 1000 Parts list

GROUP	PART DESIGNATION	PART NAME
Transducers	HF Driver	HPA4828
	Horn	PAVHM
	Spare diaphragm & Ferrofluid	HPARK
	MF Loudspeaker (x 2)	PC.HPM2
	LF Loudspeaker	[a]PC.HPB1000
	Recone kit	PC. HPB1000K
Passive Crossover	Complete filter	FPPC4
	Spare parts	see separate parts list
Required Controller	Complete unit	PCTD
	Spare parts	see separate parts list
Miscellaneous	Input connector	NL4PR
	Front grille	GRPC1000
	HF horn mounting plate	APRPC2
	Flying rail (optional) (x 3)	FLYRAIL3
	Rings for Flying rail	FLYANSP
	Container	CONT115
	Ferrofluid for HF driver	FERHF

[a] Around 11/88 some cabinets has been shipped with different MF Loudspeakers. Those are easily recognizable due to the squared shape of their chassis. Those loudspeakers are no longer manufactured, but are fully compatible with actual reference. It is nevertheless recommanded to change both louspeakers at the same time.

I.1.f. PC 212/2 Parts list

GROUP	PART DESIGNATION (x Qty)	PART NAME
Transducers	HF Driver	HPA4828
	Horn	PAVHM
	Spare diaphragm	HPARK
	MF Loudspeaker (x 2)	PC.HPM2 [a]
	LF Loudspeaker	PC.HPB2212
	Recone kit	PC.HPB2212K
Passive Crossover	Complete filter	FPPC4
	Spare parts	see separate parts list
Required Controller	Complete unit	PCTD
	Spare parts	see separate parts list
Miscellaneous	Input connector	NL4PR
	Front grille	GRPC2122
	HF horn mounting plate	APRPC2
	Flying rail (optional) (x 3)	FLYRAIL3
	Rings for Flying rail	FLYANSP
	Container	CONT212
	Ferrofluid for HF driver	FERHF

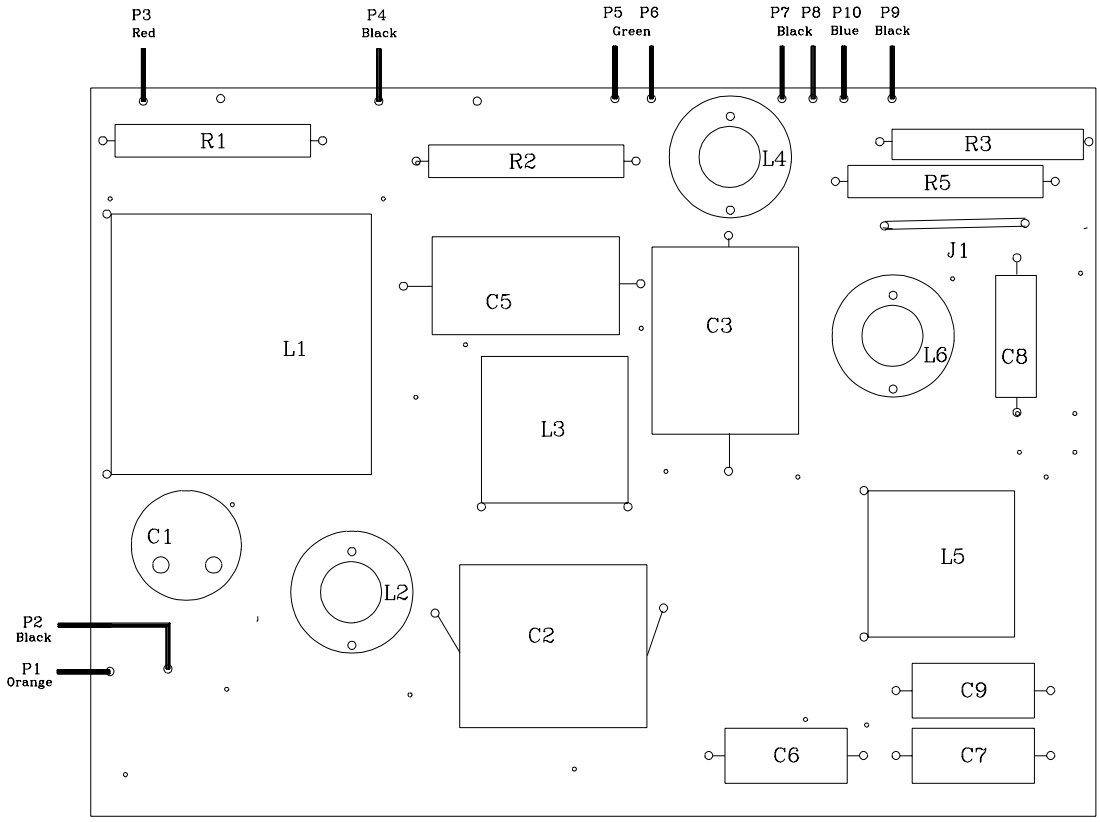
I.1.g. PCSUB parts list

GROUP	PART DESIGNATION	PART NAME
Transducers	LF Loudspeaker (x 2)	PC.HPBSub
	Recone kit	PC.HPBSubK
Required controller	Complete unit	PCPRO1a
	Spare parts	

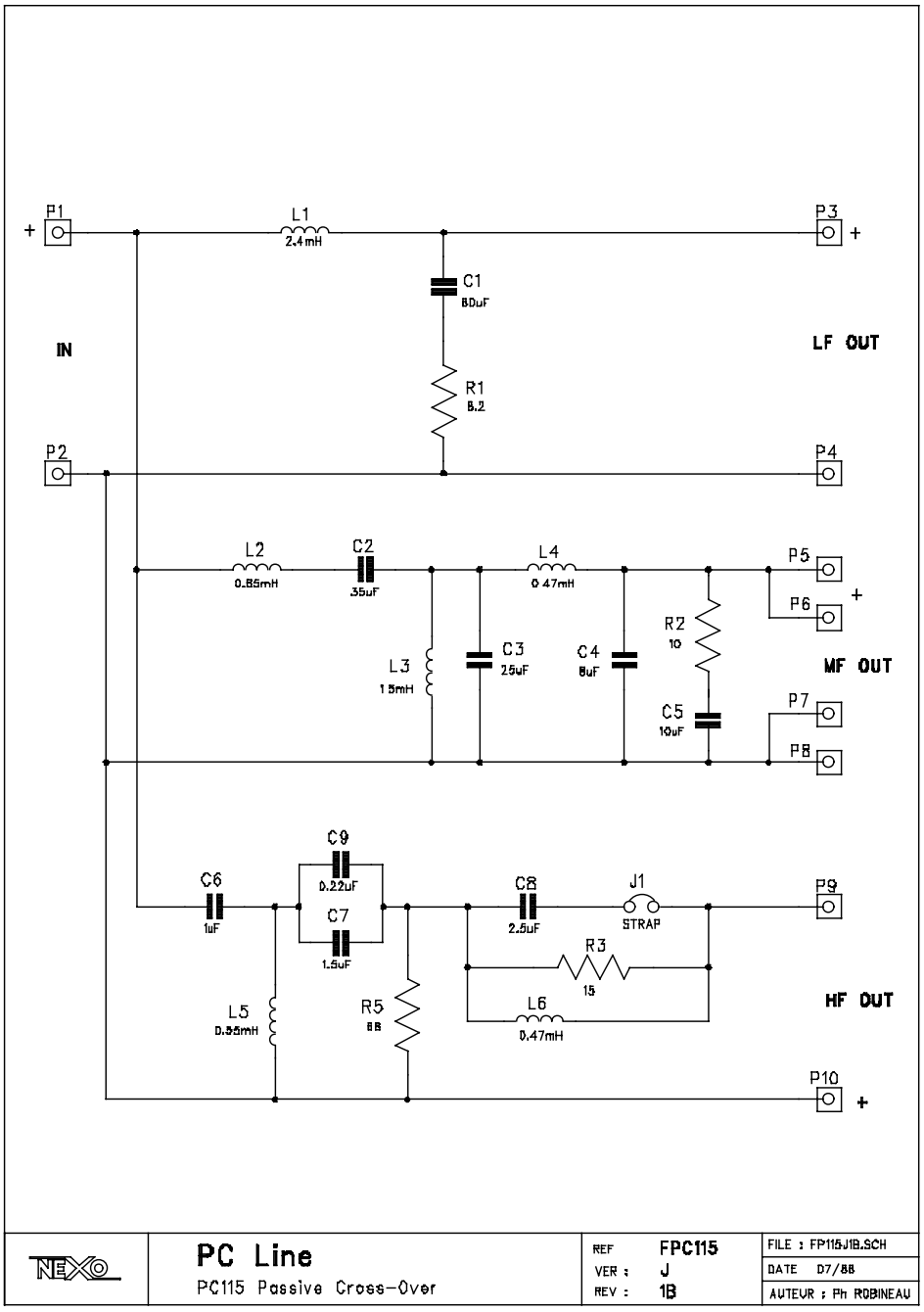
I.2. PASSIVE NETWORKS

I.2.a. Schematics, part lists & Component layouts

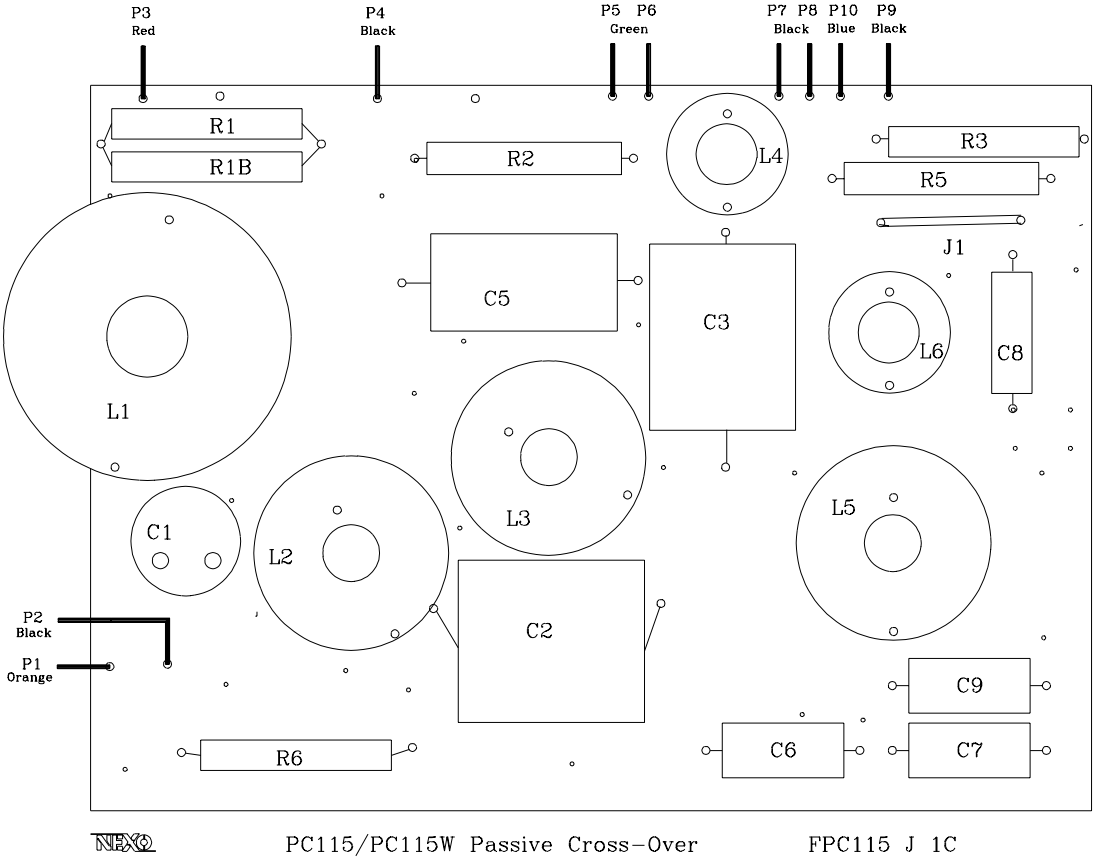
I.2.a.1.Passive Cross-Over FPC115 J 1B



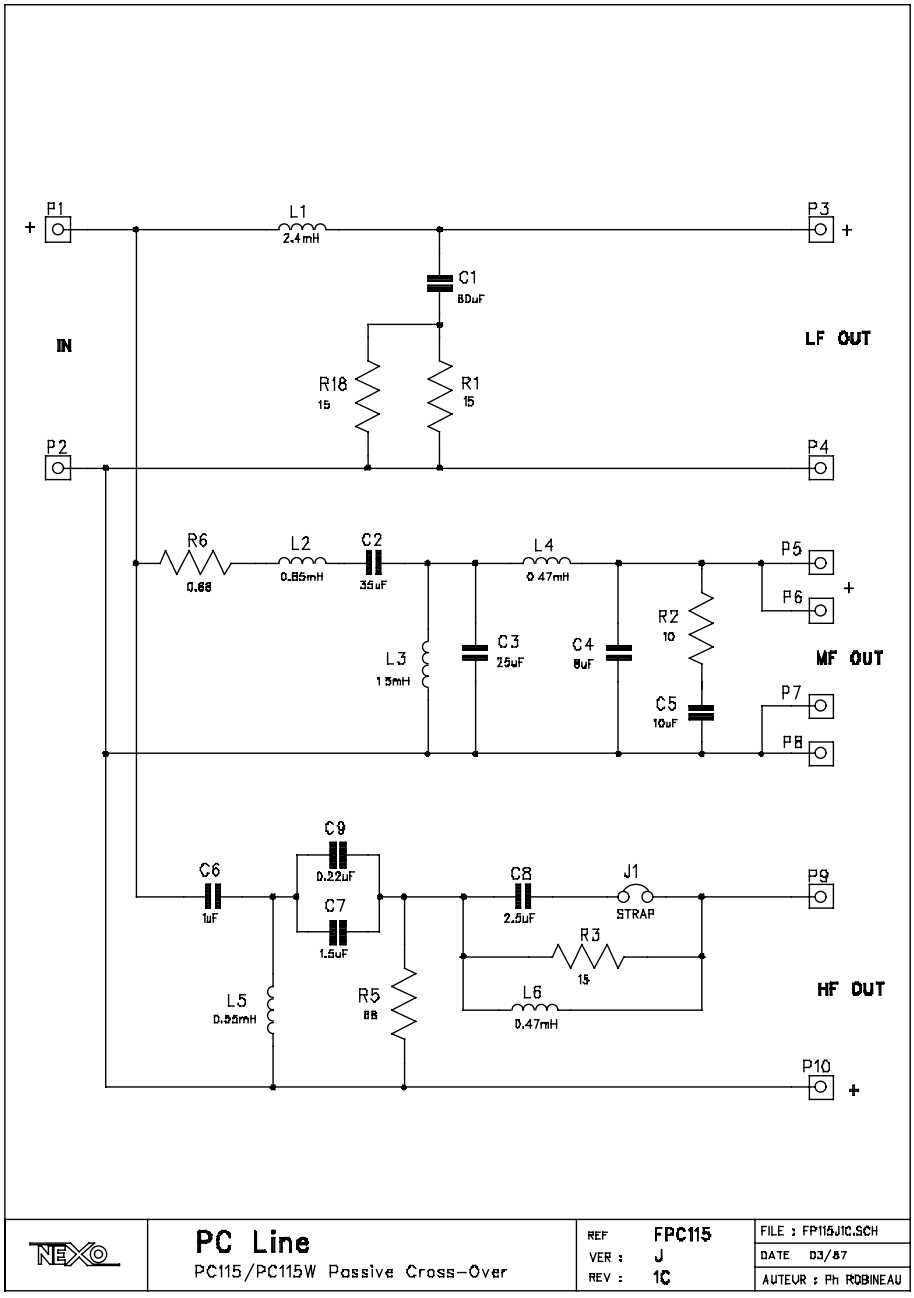
FP115J1B				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	60uF	10%	100V
C2	MKP	35uF	5%	400V
C3	MKP	25uF	5%	400V
C4	MKP	8uF	5%	400V
C5	MKP	10uF	5%	400V
C6	MKP	1uF	5%	400V
C7	MKP	1.5uF	5%	400V
C8	MKP	2.5uF	5%	400V
C9	MKP	0.22uF	5%	400V
J1	STRAP			
L1		2.4mH		400g
L2		0.85mH		30g
L3		1.5mH		100g
L4		0.47mH		30g
L5		0.55mH		100g
L6		0.47mH		30g
R1	R2C	8.2	5%	25W
R2	RWS	10	5%	25W
R3	RWS	15	5%	25W
R5	RWS	68	5%	25W


P1
L1
2.4mH
P3
C1
BDuF
IN
LF OUT
R1
8.2
P2
P4
L2
0.85mH
C2
.35uF
L4
0.47mH
P5
P6
R2
10
L3
1.5mH
C3
2.5uF
C4
8uF
MF OUT
C5
10uF
P7
P8
C9
0.22uF
C6
1uF
C7
1.5uF
C8
2.5uF
J1
STRAP
P9
R3
15
L5
0.55mH
R5
8B
L6
0.47mH
HF OUT
P10
PC Line
PC115 Passive Cross-Over
REF FPC115
VER : J
REV : 1B
FILE : FP115J1B.SCH
DATE 07/88
AUTEUR : Ph ROBINEAU

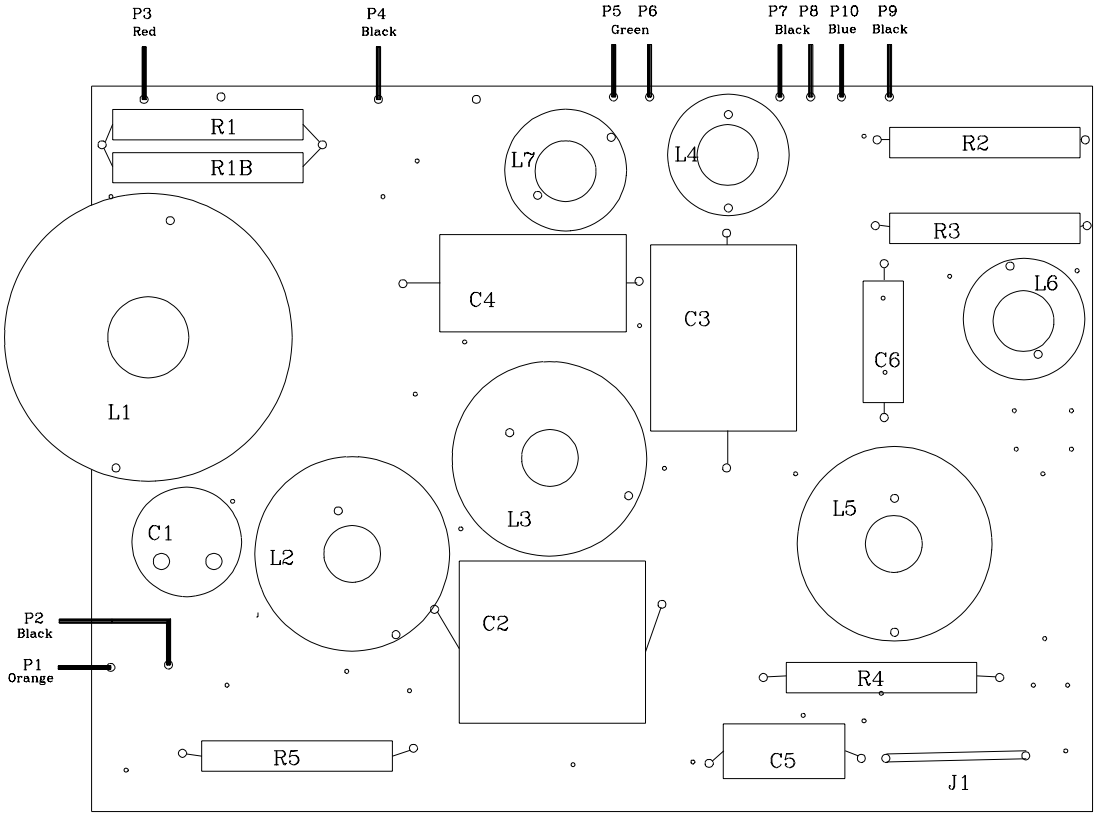
I.2.a.2.Passive Cross-Over FPC115 J 1C



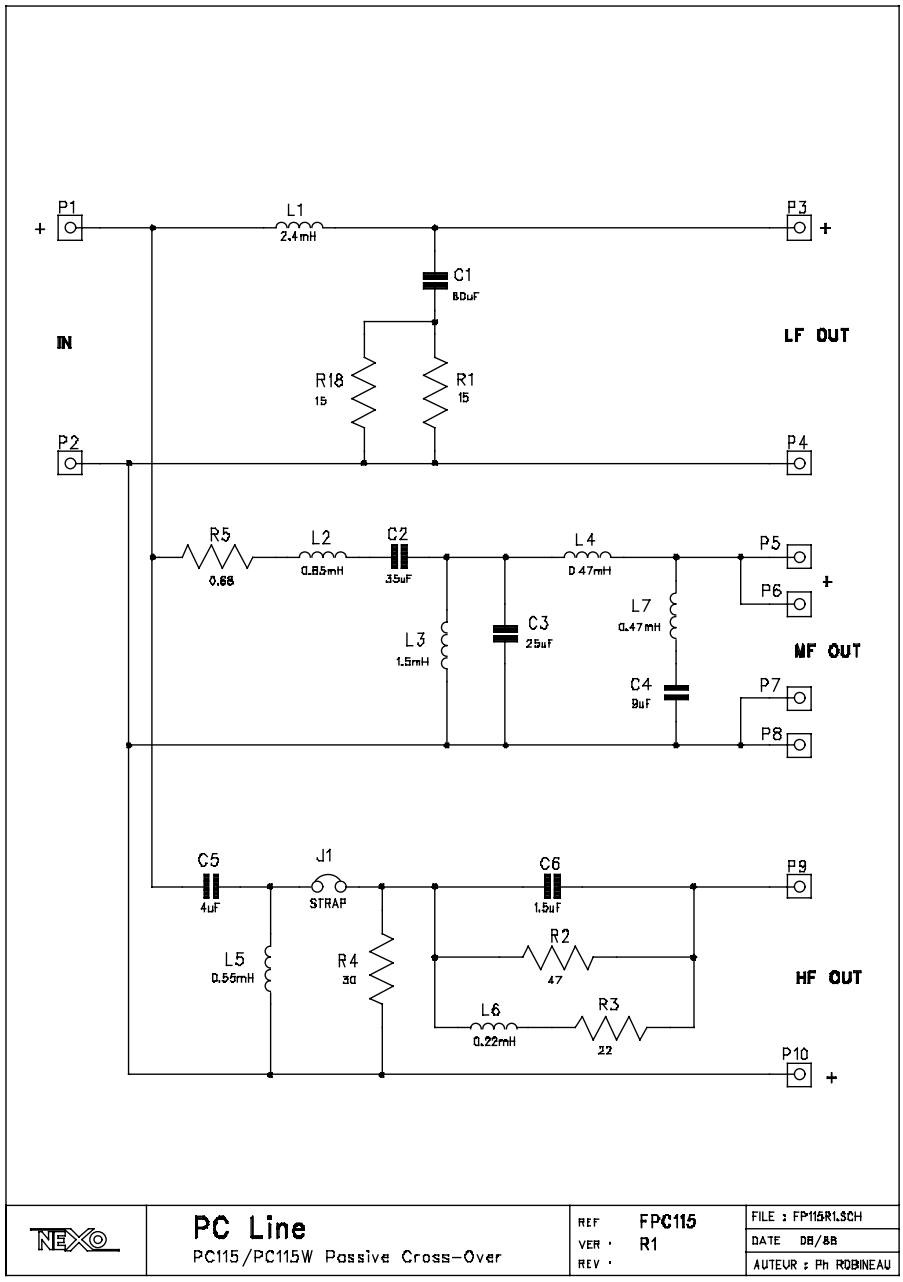
FP115J1C				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	60uF	10%	100V
C2	MKP	35uF	5%	400V
C3	MKP	25uF	5%	400V
C4	MKP	8uF	5%	400V
C5	MKP	10uF	5%	400V
C6	MKP	1uF	5%	400V
C7	MKP	1.5uF	5%	400V
C8	MKP	2.5uF	5%	400V
C9	MKP	0.22uF	5%	400V
J1	STRAP			
L1		2.4mH		500g
L2		0.85mH		100g
L3		1.5mH		100g
L4		0.47mH		30g
L5		0.55mH		100g
L6		0.47mH		30g
R1	RWS	15	5%	25W
R2	RWS	10	5%	25W
R3	RWS	15	5%	25W
R5	RWS	68	5%	25W
R6	RWS	0.68	5%	25W
R18	RWS	15	5%	25W


P1
+
L1
2.4mH
P3
+
C1
BDuF
IN
LF OUT
R18
15
R1
15
P2
P4
R6
0.68
L2
0.85mH
C2
35uF
L4
0.47mH
P5
P6
+
R2
10
L3
1.5mH
C3
25uF
C4
8uF
MF OUT
C5
10uF
P7
P8
C9
0.22uF
C6
1uF
C7
1.5uF
C8
2.5uF
J1
STRAP
P9
R3
15
L5
0.55mH
R5
8R
L6
0.47mH
HF OUT
P10
+
PC Line
PC115/PC115W Passive Cross-Over
REF FPC115
VER : J
REV : 1C
FILE : FP115J1C.SCH
DATE 03/87
AUTEUR : Ph ROBINEAU

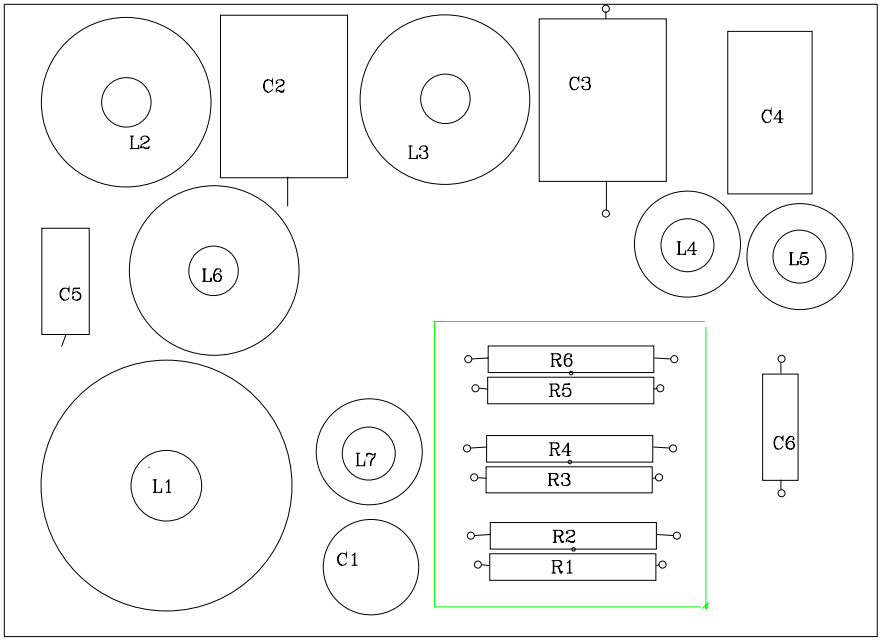
I.2.a.3.Passive Cross-Over FPC115 R 1



FP115R1				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	60uF	10%	100V
C2	MKP	35uF	5%	400V
C3	MKP	25uF	5%	400V
C4	MKP	9uF	5%	400V
C5	MKP	4uF	5%	400V
C6	MKP	1.5uF	5%	400V
J1	STRAP			
L1		2.4mH		500g
L2		0.85mH		100g
L3		1.5mH		100g
L4		0.47mH		30g
L5		0.55mH		100g
L6		0.22mH		30g
L7		0.47mH		30g
R1	RWS	15	5%	25W
R2	RWS	47	5%	25W
R3	RWS	22	5%	25W
R4	RWS	30	5%	25W
R5	RWS	0.68	5%	25W
R18	RWS	15	5%	25W

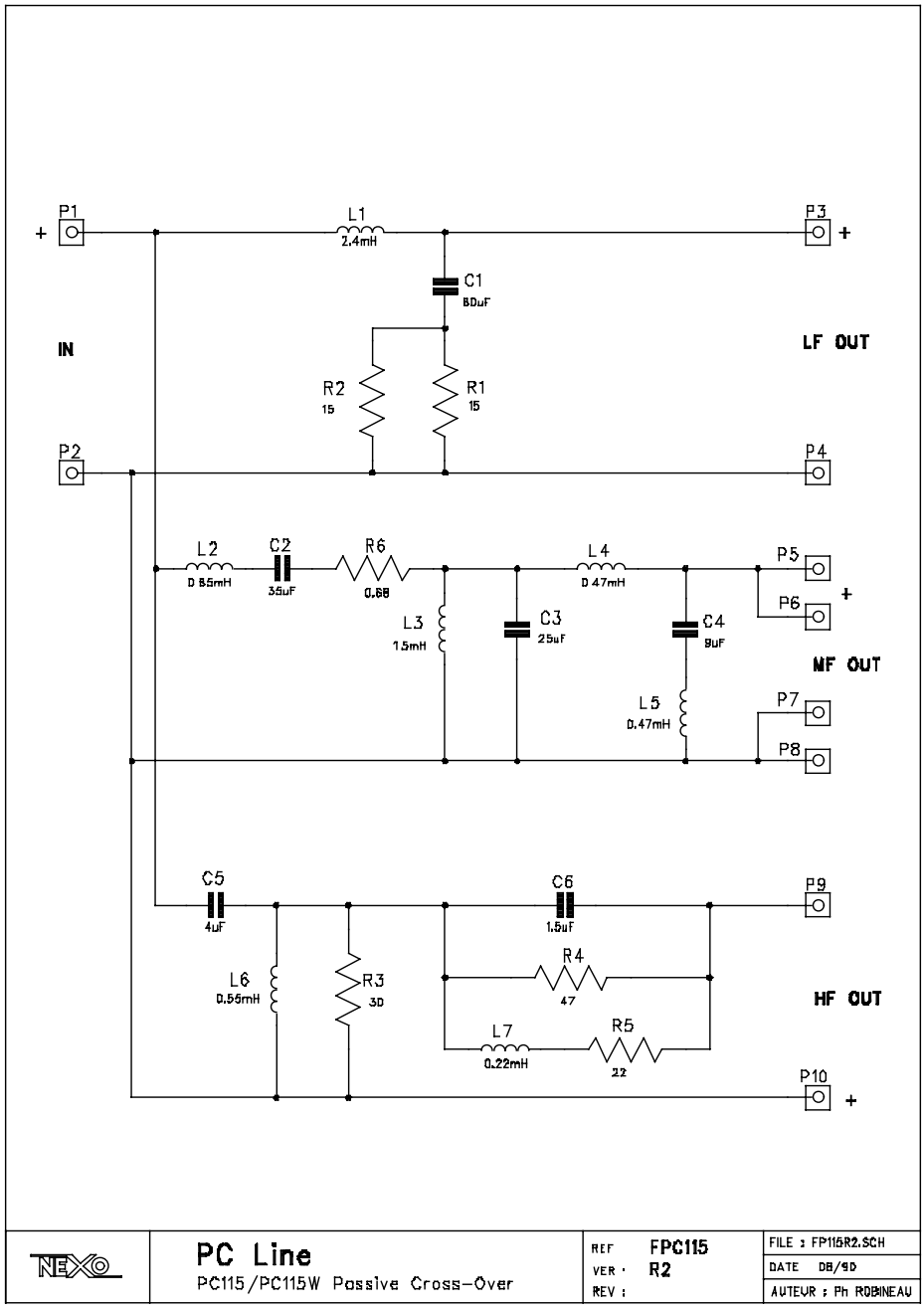

P1
L1
2.4mH
P3
C1
8DuF
IN
LF OUT
R18
15
R1
15
P2
P4
R5
0.68
L2
0.85mH
C2
35uF
L4
0.47mH
P5
P6
L7
0.47mH
L3
1.5mH
C3
25uF
MF OUT
C4
9uF
P7
P8
C5
4uF
J1
STRAP
C6
1.5uF
P9
R2
47
L5
0.55mH
R4
30
HF OUT
L6
0.22mH
R3
22
P10
PC Line
PC115/PC115W Passive Cross-Over
REF FPC115
VER : R1
REV :
FILE : FP115R1.SCH
DATE 08/88
AUTEUR : Ph ROBINEAU

I.2.a.4.Passive Cross-Over FPC115 R 2

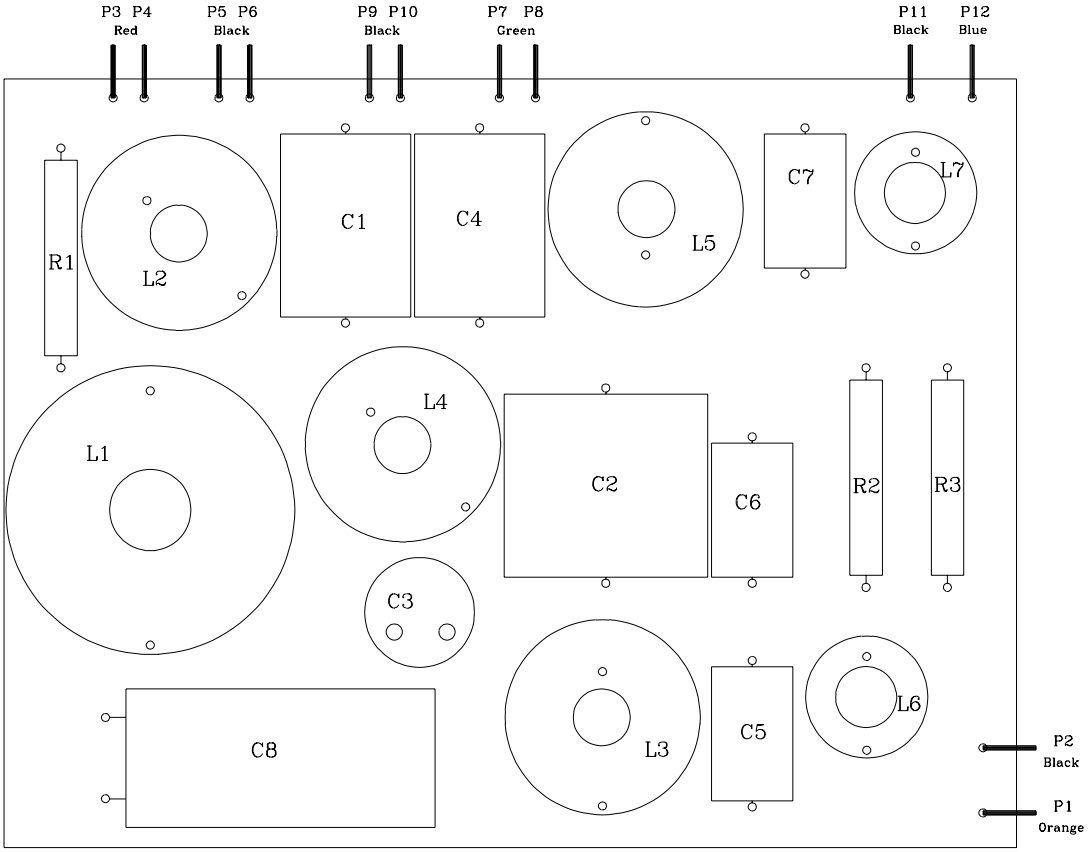


PC115 R2

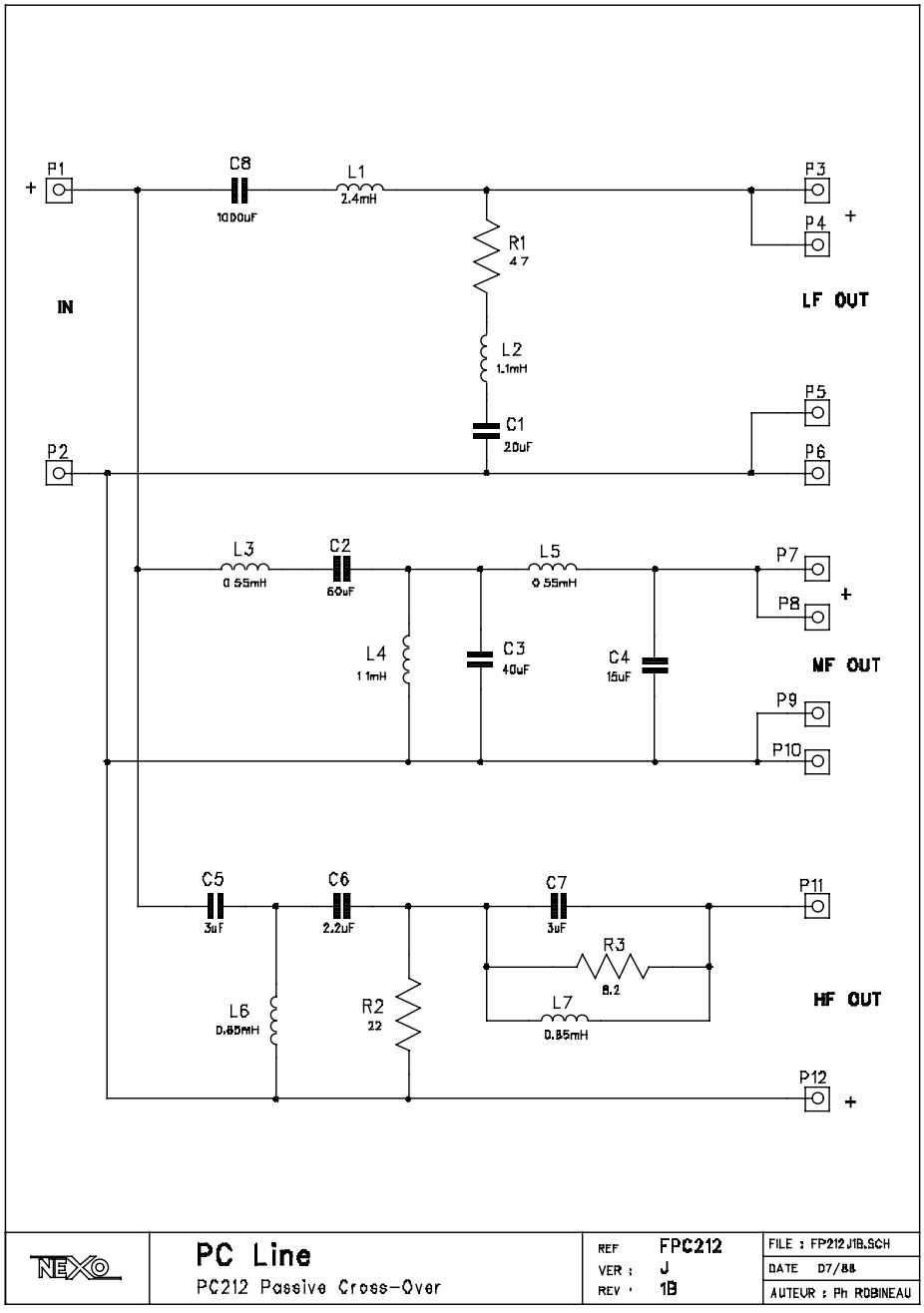
FP115R2				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	60uF	10%	100V
C2	MKP	35uF	5%	400V
C3	MKP	25uF	5%	400V
C4	MKP	9uF	5%	400V
C5	MKP	4uF	5%	400V
C6	MKP	1.5uF	5%	400V
L1		2.4mH		500g
L2		0.85mH		100g
L3		1.5mH		100g
L4		0.47mH		30g
L5		0.47mH		30g
L6		0.55mH		100g
L7		0.22mH		30g
R1	RWS	15	5%	25W
R2	RWS	15	5%	25W
R3	RWS	30	5%	25W
R4	RWS	47	5%	25W
R5	RWS	22	5%	25W
R6	RWS	0.68	5%	25W


P1
L1
2.4mH
P3
C1
BDuF
IN
LF OUT
R2
15
R1
15
P2
P4
L2
D 85mH
C2
35uF
R6
0.68
L4
D 47mH
P5
P6
L3
1.5mH
C3
25uF
C4
9uF
MF OUT
L5
0.47mH
P7
P8
C5
4uF
C6
1.5uF
P9
L6
0.55mH
R3
3D
R4
47
HF OUT
L7
0.22mH
R5
22
P10
PC Line
PC115/PC115W Passive Cross-Over
REF FPC115
VER : R2
REV :
FILE : FP115R2.SCH
DATE DB/9D
AUTEUR : Ph ROBINEAU

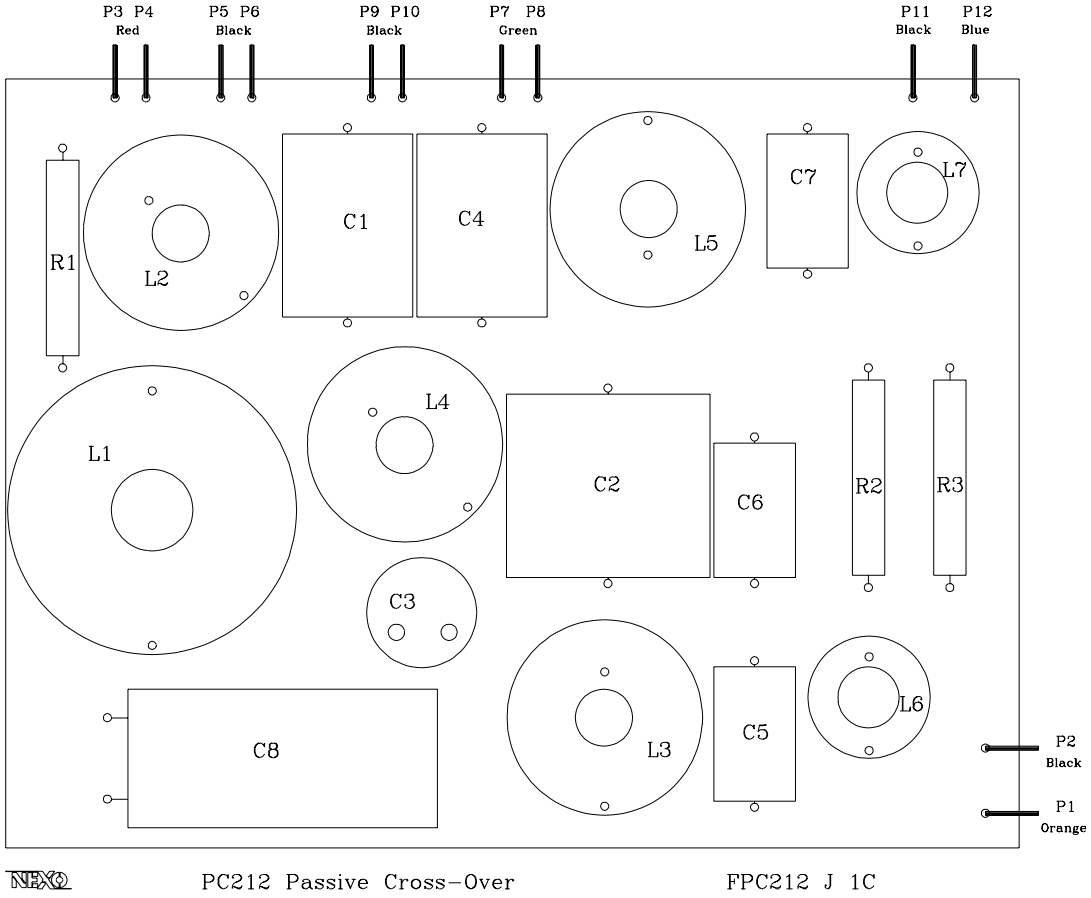
I.2.a.5.Passive Cross-Over FPC212 J 1B



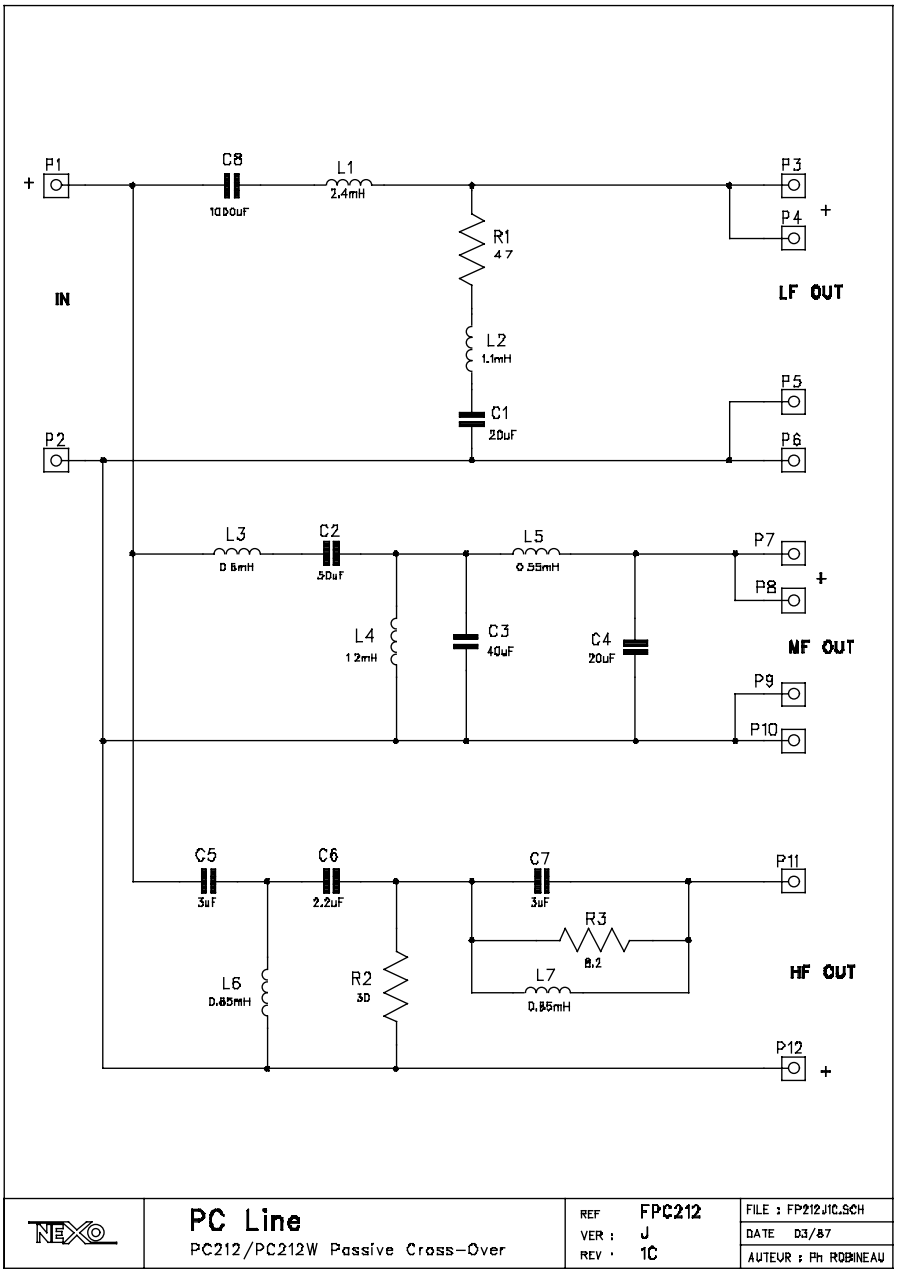
FP212J1B				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	MKP	20uF	5%	400V
C2	BIPOLAR	60uF	10%	110V
C3	BIPOLAR	40uF	10%	100V
C4	MKP	15uF	5%	400V
C5	MKP	3uF	5%	400V
C6	MKP	2.2uF	5%	400V
C7	MKP	3uF	5%	400V
C8	BIPOLAR	1000uF	10%	100V
L1		2.4mH		400g
L2		1.1mH		100g
L3		0.55mH		100g
L4		1.1mH		100g
L5		0.55mH		100g
L6		0.85mH		30g
L7		0.85mH		30g
R1	RWS	4.7	5%	25W
R2	RWS	22	5%	25W
R3	RWS	8.2	5%	25W


P1
C8
1000uF
L1
2.4mH
P3
P4
R1
4.7
IN
LF OUT
L2
1.1mH
C1
2.0uF
P5
P2
P6
L3
0.55mH
C2
60uF
L5
0.55mH
P7
P8
L4
1.1mH
C3
4.0uF
C4
15uF
MF OUT
P9
P10
C5
3uF
C6
2.2uF
C7
3uF
P11
R3
8.2
L6
0.85mH
R2
22
L7
0.85mH
HF OUT
P12
PC Line
PC212 Passive Cross-Over
REF FPC212
VER : J
REV : 1B
FILE : FP212J1B.SCH
DATE 07/88
AUTEUR : Ph ROBINEAU

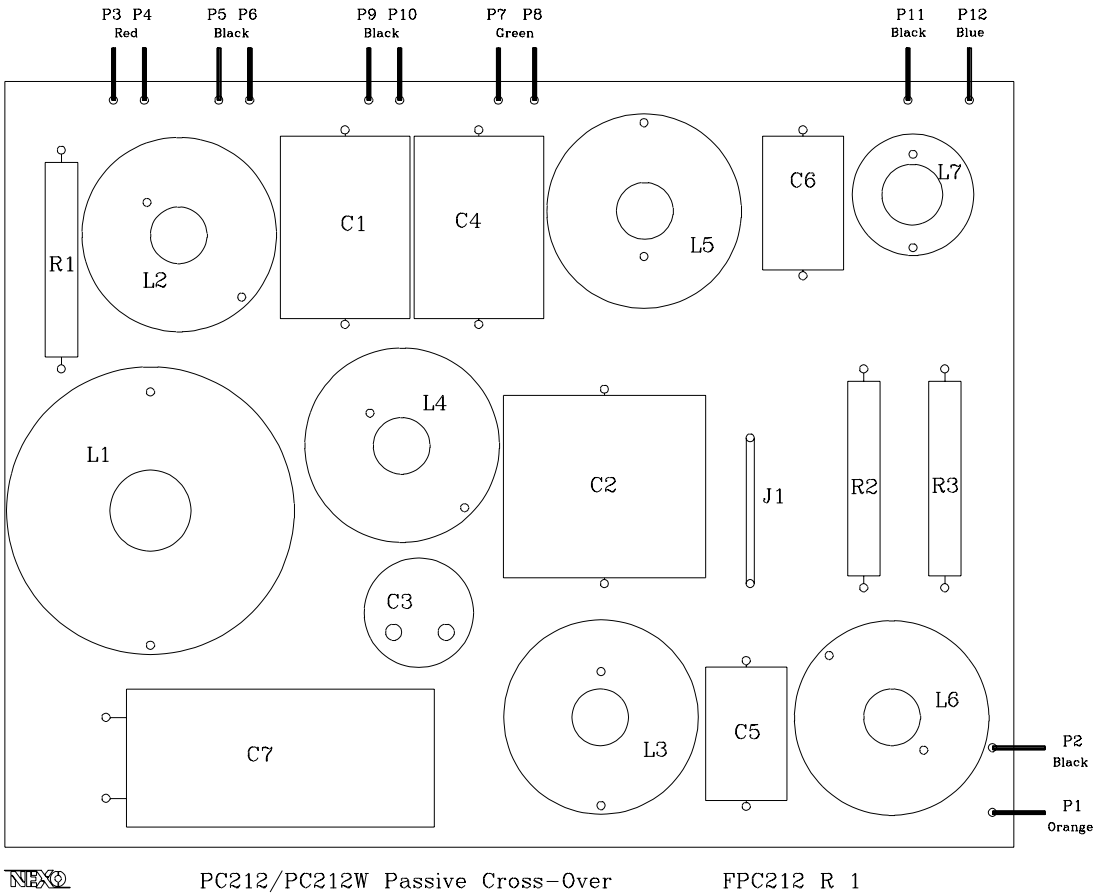
I.2.a.6.Passive Cross-Over FPC212 J 1C



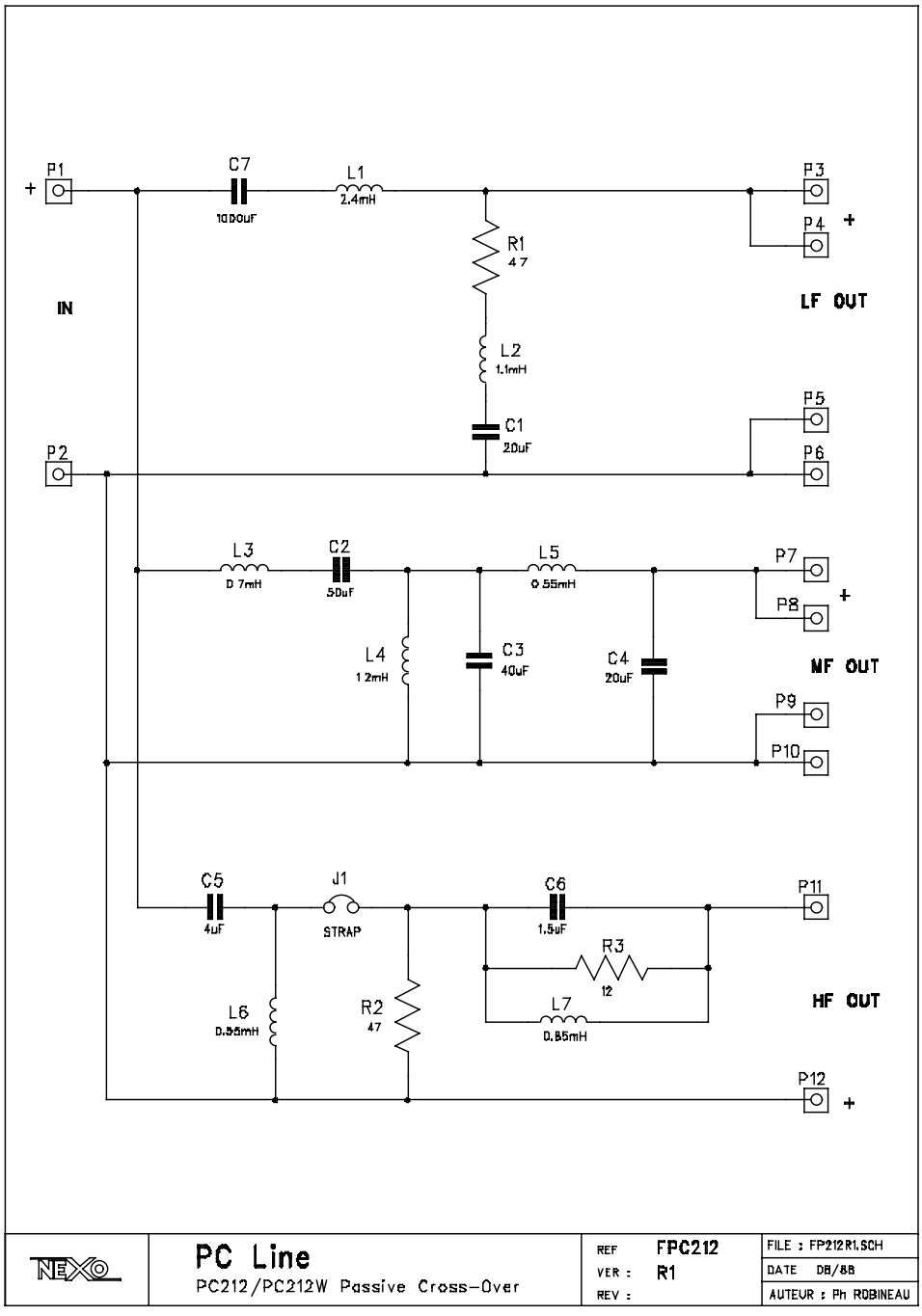
FP212J1C				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	MKP	20uF	5%	400V
C2	MKP	50uF	5%	400V
C3	BIPOLAR	40uF	10%	100V
C4	MKP	20uF	5%	400V
C5	MKP	3uF	5%	400V
C6	MKP	2.2uF	5%	400V
C7	MKP	3uF	5%	400V
C8	BIPOLAR	1000uF	10%	100V
L1		2.4mH		500g
L2		1.1mH		100g
L3		0.6mH		300g
L4		1.2mH		300g
L5		0.55mH		100g
L6		0.85mH		30g
L7		0.85mH		30g
R1	RWS	4.7	5%	25W
R2	RWS	30	5%	25W
R3	RWS	8.2	5%	25W


P1
C8
L1
2.4mH
P3
P4
R1
47
IN
LF OUT
L2
1.1mH
P5
C1
20uF
P2
P6
L3
C2
L5
P7
P8
L4
C3
C4
20uF
MF OUT
P9
P10
C5
3uF
C6
2.2uF
C7
3uF
P11
R3
8.2
L6
R2
L7
HF OUT
P12
PC Line
PC212/PC212W Passive Cross-Over
REF FPC212
VER : J
REV : 1C
FILE : FP212J1C.SCH
DATE 03/87
AUTEUR : Ph ROBINEAU

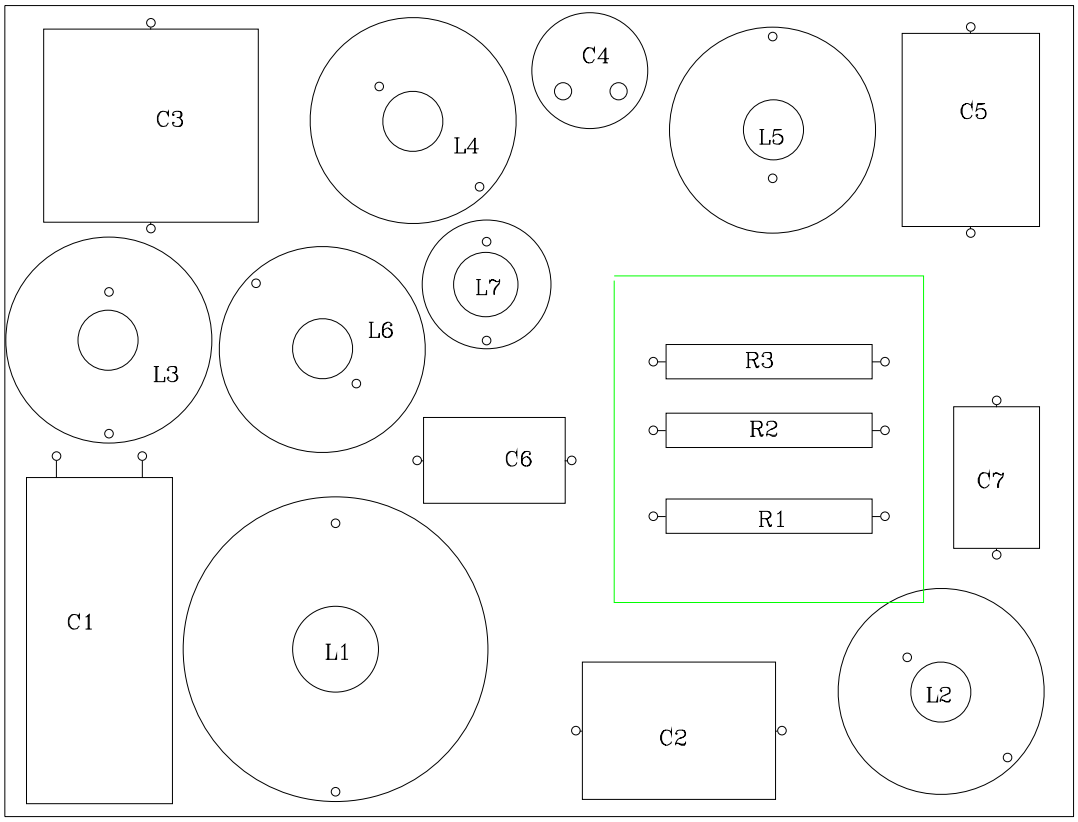
I.2.a.7.Passive Cross-Over FPC212 R 1



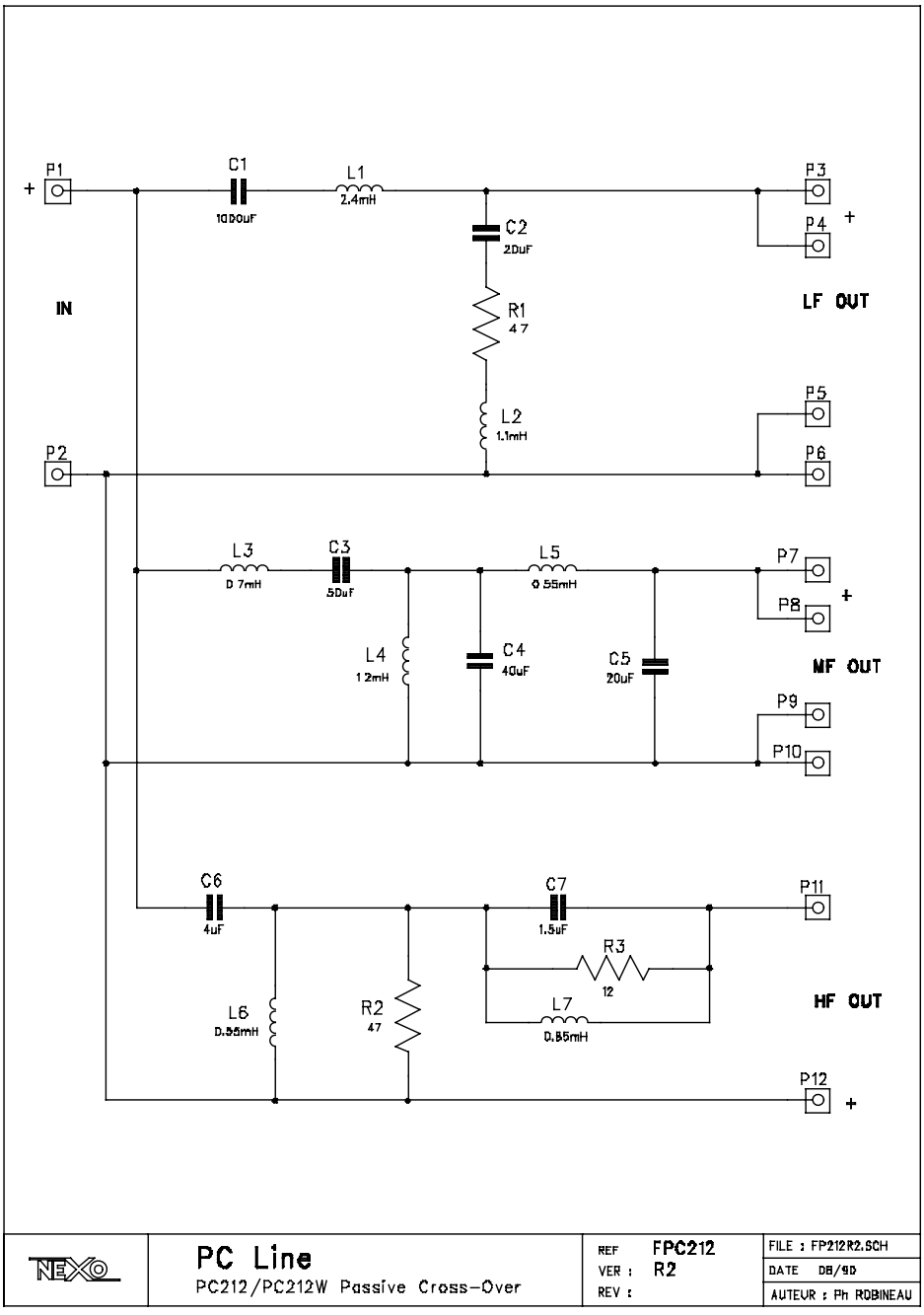
FP212R1				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	MKP	20uF	5%	400V
C2	MKP	50uF	5%	400V
C3	BIPOLAR	40uF	10%	100V
C4	MKP	20uF	5%	400V
C5	MKP	4uF	5%	400V
C6	MKP	1.5uF	5%	400V
C7	BIPOLAR	1000uF	10%	100V
J1	STRAP			
L1		2.4mH		500g
L2		1.1mH		100g
L3		0.7mH		300g
L4		1.2mH		300g
L5		0.55mH		100g
L6		0.55mH		100g
L7		0.85mH		30g
R1	RWS	4.7	5%	25W
R2	RWS	47	5%	25W
R3	RWS	12	5%	25W


P1
+
C7
10000uF
L1
2.4mH
P3
P4
+
R1
4.7
IN
LF OUT
L2
1.1mH
C1
20uF
P5
P2
P6
L3
0.7mH
C2
50uF
L5
0.55mH
P7
P8
+
L4
1.2mH
C3
40uF
C4
20uF
MF OUT
P9
P10
C5
4uF
J1
STRAP
C6
1.5uF
P11
R3
12
L6
0.55mH
R2
47
L7
0.55mH
HF OUT
P12
+
PC Line
PC212/PC212W Passive Cross-Over
REF FPC212
VER : R1
REV :
FILE : FP212R1.SCH
DATE 08/88
AUTEUR : Ph ROBINEAU

I.2.a.8.Passive Cross-Over FPC212 R 2

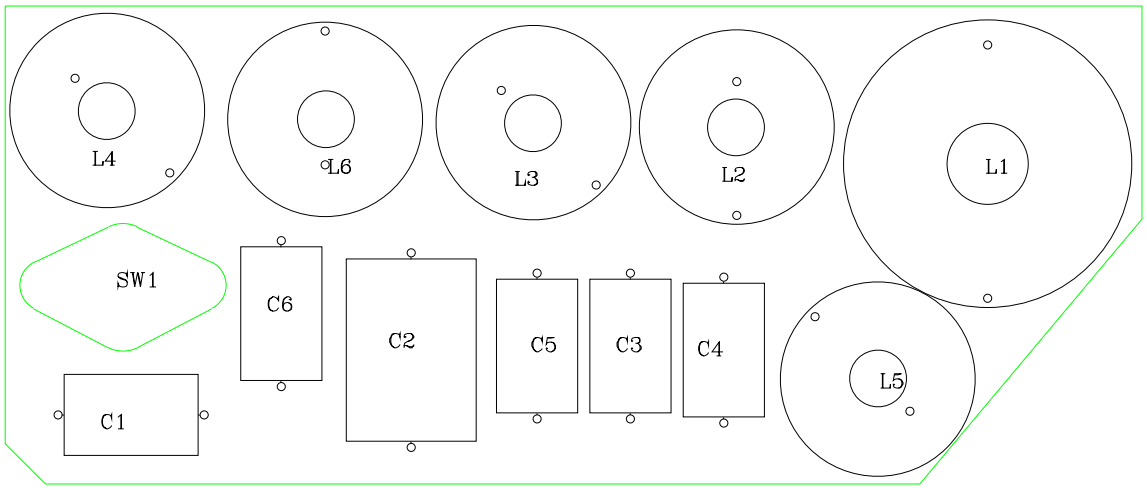


FP212R2				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	1000uF	10%	100V
C2	MKP	20uF	5%	400V
C3	MKP	50uF	5%	400V
C4	BIPOLAR	40uF	10%	100V
C5	MKP	20uF	5%	400V
C6	MKP	4uF	5%	400V
C7	MKP	1.5uF	5%	400V
L1		2.4mH		500g
L2		1.1mH		100g
L3		0.7mH		300g
L4		1.2mH		300g
L5		0.55mH		100g
L6		0.55mH		100g
L7		0.85mH		30g
R1	RWS	4.7	5%	25W
R2	RWS	47	5%	25W
R3	RWS	12	5%	25W

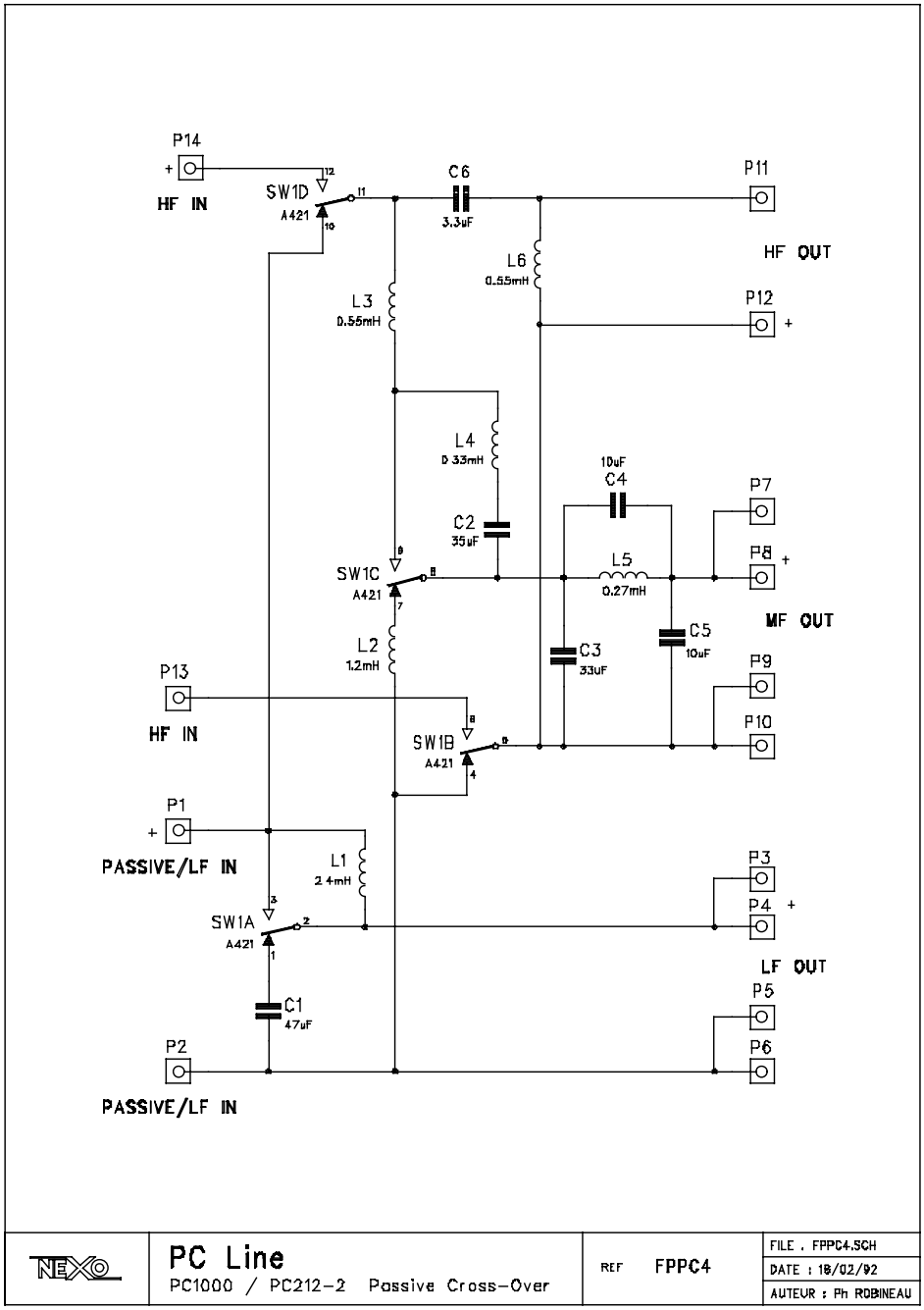

P1
C1
100uF
L1
2.4mH
C2
20uF
P3
P4
+
IN
R1
47
LF OUT
L2
1.1mH
P5
P2
P6
L3
0.7mH
C3
.5uF
L5
0.55mH
P7
P8
+
L4
1.2mH
C4
40uF
C5
20uF
MF OUT
P9
P10
C6
4uF
C7
1.5uF
P11
R3
12
L6
0.55mH
R2
47
L7
0.85mH
HF OUT
P12
+
PC Line
PC212/PC212W Passive Cross-Over
REF FPC212
VER : R2
REV :
FILE : FP212R2.SCH
DATE 08/98
AUTEUR : Ph ROBINEAU

I.2.a.9.Passive Cross-Over FPPC4

FPPC4				
REFERENCE	**TYPE**	**VALUE**	**TOL**	**RATING**
C1	BIPOLAR	47uF	10%	100V
C2	MKP	35uF	5%	400V
C3	BIPOLAR	33uF	10%	100V
C4	MKP	10uF	5%	400V
C5	MKP	10uF	5%	400V
C6	MKP	3.3uF	5%	400V
L1		2.4mH		500g
L2		1.2mH		300g
L3		0.55mH		300g
L4		0.33mH		100g
L5		0.27mH		100g
L6		0.55mH		100g
SW1	A421			



FPPC4


P14
HF IN
SW1D
A421
C6
3.3uF
P11
HF OUT
L6
0.55mH
L3
0.55mH
P12
L4
0.33mH
10uF
C4
P7
C2
35uF
SW1C
A421
L5
0.27mH
P8
MF OUT
L2
1.2mH
C3
33uF
C5
10uF
P9
P13
HF IN
SW1B
A421
P10
P1
PASSIVE/LF IN
L1
2.4mH
P3
P4
SW1A
A421
LF OUT
C1
47uF
P5
P2
PASSIVE/LF IN
P6
PC Line
PC1000 / PC212-2 Passive Cross-Over
REF FPPC4
FILE . FPPC4.SCH
DATE : 18/02/92
AUTEUR : Ph ROBINEAU

II. SERVICE INSTRUCTIONS

II.1. Using HPAD16 (JBL D16R2425) Diaphragm in PC instead of HPAJK

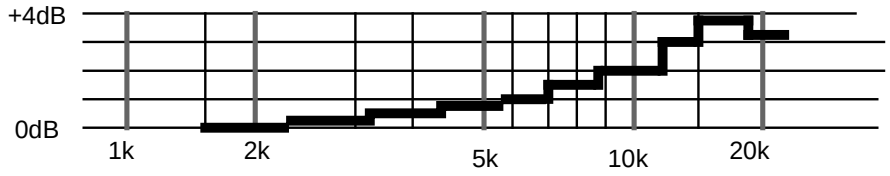
To avoid to upgrade of some old cabinets, JBL Diaphragm D16R2425 can be use in early version of SI, MSI and PC in replacement of the original diaphragm, with the following restrictions.

II.1.a. Mechanical, electrical and acoustical compatibility

JBL D16R2425 diaphragms are mechanically compatible with HPA 1008 (SI & MSI) & HPA 1048 (PC) diaphragms.

Electrical impedance is nearly the same and has only a slight influence (between 0 and +1 dB) on the passive crossover. **However a polarity invertion must be made.** (See below).

The acoustical response curve is quite close to the original one with a progressive loss of high frequencies reaching 3 or 4 dB at the higher frequencies. Here is the typical correction which should be made on a 1/3 octave equalizer (constant Q).



II.1.b. Mounting and using JBL Diaphragms

Positioning the diaphragm is not different with the JBL one, you could have to press a little more in order to achieve a good contact at the joint face.

POLARITY INVERTION : connect the black terminal on the cover with the red wire on the diaphragm.

A final check for proper sound quality can be done by applying a 2 V rms. sine wave swept from 1 kHz to 15 kHz. (NB : this assumes that the driver is connected to the horn). If distortion is too important (usually near 1k or 2k), control the tightening of the screws, and eventually reverse the position of the diaphragm in the gap. If it is not sufficient, use spacing washers (0.2mm) under the diaphragm ring (around the screws holes). Doing so will induce another loss in the high frequencies (above 7k, 1dB at 10k, max 2.5dB at 14k)

III. PC CONTROLLERS REFERENCE GUIDE

- First implantation : PC PRO_1a with sub channel until January 1991
- 2nd implantation : PC PROW four channel controller & PC PRO (same board but only two channel). In fact there has been two sligthly differents versions of this implantation one in 1986 and one in 1991. Please contact NEXO factory for more information.
- 3rd implantation : PCTD since March 1992

III.1. PC PRO_1A

PCPRO_1A

FUNCTION	REF.	SPECS.	TOL	RATING
Power supply	R1	2 kΩ	5%	1/2W
	R2	2 kΩ		1/2W
	R3	2 kΩ	5%	1/2W
	C1	2200µF		50V
	C2	100nF	5%	
	C3	100µF		25V
	C4	100nF	5%	
	C5	2200µF		50V
	C6	100nF	5%	
	C7	100µF		25V
	C8	100nF	5%	
	D1	W02F 1A		
	D2	W02F 1A		
	D3	LED 5mm green		
	S1	MFP 220		
	F1	0.25 A		250V
	TR1	2 x 15 V		15VA
	IC11	uA7815		
	IC12	uA7815		
	D4	LED 5mm Red		
	D5	LED 5mm Red		
	S3	SHADOW F4U		
	S4	SHADOW F4U		
	S2	SHADOW F2U		
ICs	IC1	TL074 (w 14p socket)		
	IC101	TL074 (w 14p socket)		
	IC3	TL074 (w 14p socket)		
	IC5	TL074 (w 14p socket)		
	IC105	TL074 (w 14p socket)		
	IC6	NE 5534 (+ support 8br.)		
	IC106	NE 5534 (+ support 8br.)		
	IC7	TL074 (w 14p socket)		
	IC8	TL074 (w 14p socket)		
	IC9	NE 5534 (w 14p socket)		
	J1	XLR 3 FDH		
	J2	XLR 3 FDH		
	J3	XLR 3 MDH		
	J4	XLR 3 MDH		
	J5	XLR 3 MDH		
	J6	XLR 3 MDH		
INPUT	R101+R1101	680 Ω	1%	1/4W
	R102+R1102	680 Ω	1%	1/4W
	R103+R1103	8,2 kΩ	1%	1/4W
	R104+R1104	8,2 kΩ	1%	1/4W
	R105+R1105	12,7 kΩ	1%	1/4W
	R106+R1106	12,7 kΩ	1%	1/4W
	C101+C1101	1 nF	5%	
	C102+C1102	1 nF	5%	
	C103+C1103	220 pF	10%	
	C104+C1104	220 pF	10%	
	R4+R1004	75 Ω	1%	1/4W

PCPRO_1A				
FUNCTION	**REF.**	**SPECS.**	**TOL**	**RATING**
	R5+R1005	75 Ω	1%	1/4W
	C9+C1009	100 µF		25v
	C10+C1010	100 µF		25v
Hi pass filter	R211+R1211	39 kΩ	1%	1/4W
	R212+R1212	27 kΩ	1%	1/4W
	R213+R1213	18 kΩ	1%	1/4W
	R221+R1221	22 kΩ	1%	1/4W
	R222+R1222	150 kΩ	1%	1/4W
	R223+R1223	STRAP 0 Ω	1%	1/4W
	C211+C1211	47 nF	5%	
	C212+C1212	47 nF	5%	
	C221+C1221	33 nF	5%	
	C222+C1222	33 nF	5%	
HF EQ	R301+R1301	NC		
	R302+R1302	27 kΩ	1%	1/4W
	R303+R1303	1,8 kΩ	1%	1/4W
	R304+R1304	STRAP 0 Ω	1%	1/4W
	R401+R1401	STRAP 0 Ω	1%	1/4W
	R402+R1402	15 kΩ	1%	1/4W
	R403+R1403	22 kΩ	1%	1/4W
	R404+R1404	NC		
	R405+R1405	STRAP 0 Ω	1%	1/4W
	C301+C1301	470 nF	5%	
	C302+C1302	470 nF	5%	
	C401+C1401	NC		
	C402+C1402	2,2 nF	5%	
	C403+C1403	100 pF	10%	
HF parametric	R501+R1501	27 kΩ	1%	1/4W
	R502+R1502	27 kΩ	1%	1/4W
	R511+R1511	2 kΩ	1%	1/4W
	R512+R1512	6,8 kΩ	1%	1/4W
	R513+R1513	5,6 kΩ	1%	1/4W
	R514+R1514	330 kΩ	1%	1/4W
	R521+R1521	8,2 kΩ	1%	1/4W
	R522+R1522	1 kΩ	1%	1/4W
	R523+R1523	6,8 kΩ	1%	1/4W
	R524+R1524	330 kΩ	1%	1/4W
	R531+R1531	1,5 kΩ	1%	1/4W
	R532+R1532	6,8 kΩ	1%	1/4W
	R533+R1533	4,7 kΩ	1%	1/4W
	R534+R1534	330 kΩ	1%	1/4W
	C511+C1511	68 nF	5%	
	C512+C1512	10 nF	5%	
	C521+C1521	10 nF	5%	
	C522+C1522	10 nF	5%	
	C531+C1531	560 pF	10%	
	C532+C1532	470 pF	10%	
OUTPUT	R604+R1604	4,7 kΩ	1%	1/4W

PCPRO_1A				
FUNCTION	**REF.**	**SPECS.**	**TOL**	**RATING**
	R605+R1605	10 kΩ	1%	1/4W
	R606+R1606	82 kΩ	1%	1/4W
	R607+R1607	47 kΩ	1%	1/4W
	R608+R1608	120 kΩ	1%	1/4W
	R609+R1609	10 kΩ	1%	1/4W
	R610+R1610	75 Ω	1%	1/4W
	P6	3 x 10 k lin. CR13		
	C601+C1601	220 nF	5%	
	C602+C1602	22 pF	10%	
	C603+C1603	12 pF	10%	
	C604+C1604	470 µF		25v
	C605+C1605	470 µF		25v
Sub sum	R701	22 kΩ	1%	1/4W
	R702	22 kΩ	1%	1/4W
	R703	4,7 kΩ	1%	1/4W
	R704	10 kΩ	1%	1/4W
Low pass Sub	R710	22 kΩ	1%	1/4W
	R711	27 kΩ	1%	1/4W
	R712	18 kΩ	1%	1/4W
	R713	27 kΩ	1%	1/4W
	C710	68 nF	5%	
	C711	33 nF	5%	
	C712	68 nF	5%	
	C713	150 nF	5%	
	C714	150 nF	5%	
	C715	27 nF	5%	
Hi pass SUB	R720	27 kΩ	1%	1/4W
	R721	18 kΩ	1%	1/4W
	R722	10 kΩ	1%	1/4W
	R723	10 kΩ	1%	1/4W
	R801	27 kΩ	1%	1/4W
	R802	27 kΩ	1%	1/4W
	R811	8,2 kΩ	1%	1/4W
	R812	1 kΩ	1%	1/4W
	R813	6,8 kΩ	1%	1/4W
	R814	330 kΩ	1%	1/4W
	R821	NC		
	R822	NC		
	R823	NC		
	R824	NC		
	C720	330 nF	5%	
	C721	330 nF	5%	
	C811	10 nF	5%	
	C812	22 nF	5%	
	C821	NC		
	C822	NC		

PCPRO_1A				
FUNCTION	**REF.**	**SPECS.**	**TOL**	**RATING**
SUB OUTPUT	R830	4,7 kΩ	1%	1/4W
	R831	15 kΩ	1%	1/4W
	R832	22 kΩ	1%	1/4W
	R833	10 kΩ	1%	1/4W
	R834	68 kΩ	1%	1/4W
	R904	4,7 kΩ	1%	1/4W
	R905	10 kΩ	1%	1/4W
	R906	82 kΩ	1%	1/4W
	R907	47 kΩ	1%	1/4W
	R908	180 kΩ	1%	1/4W
	R909	10 kΩ	1%	1/4W
	R910	75 Ω	1%	1/4W
	C901	220 nF	5%	
	C902	10 nF	5%	
	C903	12 pF	10%	
	C904	470 µF		25v
	C905	470 µF		25v
	P8	1 x 10k lin.CR13		

III.2. PC PRO_3

Board :PCPROW_3

PC PRO_3 21/11/91				
REFERENCE		**SPECS**	**TOL**	**RATING**
Left/Comm	**Right**			
C1		2200µF		50V
C2		100nF	5%	
C3		100µF		25V
C4		100nF	5%	
C5		2200µF		50V
C6		100nF	5%	
C7		100µF		25V
C8		100nF	5%	
C2391	2491	0ohm		
C301	401	100µF		25V
C302	402	100µF		25V
C311	411	1nF	5%	
C312	412	1nF	5%	
C313	413	220pF	10%	
C314	414	220pF	10%	
C321	421	470nF	5%	
C322	422	470nF	5%	
C331	431	2,2nF	5%	
C332	432	100pF	10%	
C351	451	68nF	5%	
C353	453	10nF	5%	
C361	461	10nF	5%	

PC PRO_3 21/11/91				
REFERENCE Left/Comm	**Right**	**SPECS**	**TOL**	**RATING**
C363	462	10nF	5%	
C371	471	560pF	10%	
C373	473	470pF	10%	
C392	492	33pF	10%	
C393	493	470µF		25V
C394	494	470µF		25V
D1		W02F 1A		
D2		W02F 1A		
D3		LED 5mm verte		
D4		LED 5mm Rouge		
FUSE1		0.25 A		250V
IC11		uA7815		
IC12		uA7815		
IC301	401	TL074		
IC302	402	TL074		
IC303		NE5532		
J5		XLR 3 FDH		
J6		XLR 3 MDH		
J7		XLR 3 FDH		
J8		XLR 3 MDH		
P1		10k A x 2	10%	
R1		0		
R2		0		
R3		1k	1%	1/4W
R4		1k	1%	1/4W
R5		0		
R6		0		
R7		0		
R1001		0		
R1002		1k	1%	
R1003		1k	1%	
R1391	1491	75	1%	
R1392		0		
R1393	1493	0		
R1394		0		
R2391	2491	0		
R2392	2492	0		
R2393	2493	5,11k	1%	1/4 W
R2394	2494	33,2k	1%	
R2395	2495	0	1%	1/4 W
R2396	2496	15k	1%	1/4 W
R301	401	75	1%	1/4 W
R302	402	75	1%	1/4 W
R303	403	0		
R304	404	0		
R305		0		
R306	406	0		
R307		0		
R308		0		
R309		0		
R311	411	681	1%	1/4 W

PC PRO_3 21/11/91				
REFERENCE		**SPECS**	**TOL**	**RATING**
Left/Comm	**Right**			
R312	412	681	1%	1/4 W
R313	413	8,25k	1%	1/4 W
R314	414	8,25k	1%	1/4 W
R315	415	13k	1%	1/4 W
R316	416	13k	1%	1/4 W
R321	421	1,82k	1%	1/4 W
R322	422	27,4k	1%	1/4 W
R331	431	15k	1%	1/4 W
R332	432	22,1k	1%	1/4 W
R333	433	0		
R341	441	27,4k	1%	1/4 W
R342	442	27,4k	1%	1/4 W
R343	443	0		
R351	451	2,21k	1%	1/4 W
R352	452	6,81k	1%	1/4 W
R353	453	5,62k	1%	1/4 W
R354	454	332k	1%	1/4 W
R361	461	8,25k	1%	1/4 W
R362	462	1k	1%	1/4 W
R363	463	6,81k	1%	1/4 W
R364	464	332k	1%	1/4 W
R371	471	1,5k	1%	1/4 W
R372	472	6,81k	1%	1/4 W
R373	473	4,64k	1%	1/4 W
R374	474	332k	1%	1/4 W
R384	484	0		
R392	492	22,1k	1%	1/4 W
R393	493	10k	1%	1/4 W
R395	495	10k	1%	1/4 W
SFUSE1		porte fusible		
S1		MFP 220		
S2		SHADOW F2U		
S3		SHADOW F4U		
TR1		2 x 15 V		15VA

III.3. PC PROW_3

PC PROW_3 14/05/91						
REFERENCE				**VALEUR**	**TOL**	**RATING**
Chan. 1	**Chan. 2**	**Chan.3**	**Chan.4**			
C1				2200µF		50V
C2				100nF	5%	
C3				100µF		25V
C4				100nF	5%	
C5				2200µF		50V
C6				100nF	5%	
C7				100µF		25V
C8				100nF	5%	
C101	201	301	401	100µF		
C102	202	302	402	100µF		
C111	211	311	411	1nF		

PC PROW_3				14/05/91		
REFERENCE				**VALEUR**	**TOL**	**RATING**
Chan. 1	**Chan. 2**	**Chan.3**	**Chan.4**			
C112	212	312	412	1nF		
C113	213	313	413	220pF		
C114	214	314	414	220pF	10%	
C121	221	321	421	330nF	5%	
C122	222	322	422	330nF	5%	
C131	231	331	431	2,2nF	5%	
C132	232	332	432	100pF	5%	
C151	251	351	451	68nF	5%	
C153	253	353	453	10nF	5%	
C161	261	361	461	22nF	5%	
C163	263	363	462	10nF	5%	
C171	271	371	471	560pF	5%	
C173	273	373	473	470pF	5%	
C191	291	391	491	220nF		
C192	292	392	492	22pF	10%	
C193	293	393	493	470µF		25V
C194	294	394	494	470µF		25V
D1				W02F 1A		
D2				W02F 1A		
D3				LED 5mm green		
FUSE1				0.25 A		250V
IC11				uA7815		
IC12				uA7815		
IC101	IC201	IC301	IC401	TL074		
IC102	IC202	IC302	IC402	TL074		
IC103		IC303		NE5532		
J1	J3	J5	J7	XLR 3 FDH		
J2	J4	J6	J8	XLR 3 MDH		
R1				0		
R2				0		
R3				1k	5%	1/4W
R4				1k	5%	1/4W
R5				0		
R6				0		
R7				0		
R101	201	301	401	75		
R102	202	302	402	75		
R103	203	303	403	0		
R104	204	304	404	0		
R105	205	305		0		
R	206	306	406	0		
R	207	307		0		
R108		308		0		
R109		309		0		
R111	211	311	411	681	1%	1/4 W
R112	212	312	412	681	1%	1/4 W
R113	213	313	413	8,25k	1%	1/4 W
R114	214	314	414	8,25k	1%	1/4 W
R115	215	315	415	15k	1%	1/4 W
R116	216	316	416	15k	1%	1/4 W
R121	221	321	421	4,64k	1%	1/4 W

PC PROW_3 14/05/91						
REFERENCE				**VALEUR**	**TOL**	**RATING**
Chan. 1	**Chan. 2**	**Chan.3**	**Chan.4**			
R122	222	322	422	18,2k	1%	1/4 W
R131	231	331	431	15k	1%	1/4 W
R132	232	332	432	22,1k	1%	1/4 W
R133	233	333	433	0		
R141	241	341	441	27,4k	1%	1/4 W
R142	242	342	442	27,4k	1%	1/4 W
R143	243	343	443	0		
R151	251	351	451	3,01k	1%	1/4 W
R152	252	352	452	5,62k	1%	1/4 W
R153	253	353	453	5,62k	1%	1/4 W
R154	254	354	454	332k	1%	1/4 W
R161	261	361	461	6,19k	1%	1/4 W
R162	262	362	462	1k	1%	1/4 W
R163	263	363	463	5,62k	1%	1/4 W
R164	264	364	464	274k	1%	1/4 W
R171	271	371	471	3,92k	1%	1/4 W
R172	272	372	472	6,81k	1%	1/4 W
R173	273	373	473	4,64k	1%	1/4 W
R174	274	374	474	332k	1%	1/4 W
R184	284	384	484	0		
R191	291	391	491	68k	1%	1/4 W
R192	292	392	492	121k	1%	1/4 W
R193	293	393	493	46,4k	1%	1/4 W
R194	294	394	494	75	1%	1/4 W
R195	295	395	495	10k	1%	1/4 W
SFUSE1				porte fusible		
S1				MFP 220		
S2				SHADOW F2U		
TR1				2 x 15 V		15VA

III.4. PCTD

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
C1	Axial Electrolytic	2200 µF	20%	25V
C2	CPM 63v	100 nF	5%	100V
C3	Radial Electrolytic	10 µF	20%	25V
C4	Radial Electrolytic	1 µF	20%	25V
C5	Axial Electrolytic	2200 µF	20%	25V
C6	CPM 63v	100 nF	5%	100V
C7	Radial Electrolytic	10 µF	20%	25V
C8	Radial Electrolytic	100 µF	20%	25V
C9	CPM 63v	100 nF	5%	100V
C100	Ceramic	33 pF	10%	100V
C101	Ceramic	33 pF	5%	100V
C110	CPM 63v	100 nF	5%	100V
C111	CPM 63v	1 nF	5%	100V
C112	CPM 63v	33 nF	5%	100V
C113	CPM 63v	1 nF	5%	100V
C114	Ceramic	330 pF	5%	100V
C115	Ceramic	560 pF	5%	100V

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
C116	CPM 63v	1 nF	5%	100V
C117	CPM 63v	1 nF	5%	100V
C118	CPM 63v	15 nF	5%	63V
C119	CPM 63v	2.2 nF	5%	100V
C120	CPM 63v	100 nF	5%	100V
C121	CPM 63v	2.2 nF	5%	63V
C125	CPM 63v	100 nF	5%	100V
C126	CPM 63v	100 nF	5%	100V
C128	CPM 63v	15 nF	5%	100V
C129	Ceramic	680 pF	5%	100V
C130	CPM 63v	22 nF	5%	100V
C140	CPM 63v	2.2 nF	5%	100V
C150	TANTALE GOUTTE	2.2 µF	20%	16V
C151	CPM 63v	1 nF	5%	100V
C152	Radial Electrolytic	10 µF	20%	25V
C153	Ceramic	33 pF	5%	100V
C160	Ceramic	100 pF	5%	100V
C161	Radial Electrolytic	100 µF	20%	25V
C162	Radial Electrolytic	100 µF	20%	25V
C163	Ceramic	220 pF	5%	100V
C170	CPM 63v	68 nF	5%	100V
C171	CPM 63v	47 nF	5%	100V
C172		NC		
C173		NC		
C191		NC		
C192		NC		
C200	TANTALE GOUTTE	2.2 µF	20%	16V
C201	CPM 63v	100 nF	5%	100V
C210	CPM 63v	10 nF	5%	100V
C211	CPM 63v	1 nF	5%	100V
C220	CPM 63v	47 nF	5%	100V
C221	CPM 63v	6.8 nF	5%	100V
C230	CPM 63v	1 nF	5%	100V
C250	CPM 63v	1 nF	5%	100V
C261	CPM 63v	470 nF	5%	100V
C262	CPM 63v	22 nF	5%	100V
C263	CPM 63v	2.2 nF	5%	100V
C270	CPM 63v	1 nF	5%	100V
C301	Radial Electrolytic	10 µF	20%	25V
C404	CPM 63v	150 nF	5%	100V
C410	CPM 63v	220 nF	5%	100V
C411	CPM 63v	22 nF	5%	100V
C412		NC		
C413		NC		
C414	CPM 63v	100 nF	5%	100V
C415	Radial Electrolytic	10 µF	20%	25V
C429	CPM 63v	47 nF	5%	100V
C430	CPM 63v	33 nF	5%	100V
C431	TANTALE GOUTTE	10 µF	20%	16V
C440	CPM 63v	6.8 nF	5%	100V
C441	CPM 63v	2.2 nF	5%	100V

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
C442	CPM 63v	100 nF	5%	100V
C443	CPM 63v	100 nF	5%	100V
C444	CPM 63v	47 nF	5%	100V
C445	TANTALE GOUTTE	2.2 µF	20%	16V
C460	CPM 63v	2.2 nF	5%	100V
C461	CPM 63v	2.2 nF	5%	100V
C462	CPM 63v	4.7 nF	5%	100V
C463	CPM 63v	2.2 nF	5%	100V
C464	TANTALE GOUTTE	2.2 µF	20%	16V
C480	CPM 63v	100 nF	5%	100V
C481	CPM 63v	1 nF	5%	100V
C500	Ceramic	33 pF	10%	100V
C501	Ceramic	33 pF	5%	100V
C510	CPM 63v	100 nF	5%	100V
C511	CPM 63v	1 nF	5%	100V
C512	CPM 63v	33 nF	5%	100V
C513	CPM 63v	1 nF	5%	100V
C514	Ceramic	330 pF	5%	100V
C515	Ceramic	560 pF	5%	100V
C516	CPM 63v	1 nF	5%	100V
C517	CPM 63v	1 nF	5%	100V
C518	CPM 63v	15 nF	5%	63V
C519	CPM 63v	2.2 nF	5%	63V
C520	CPM 63v	100 nF	5%	63V
C521	CPM 63v	2.2 nF	5%	63V
C525	CPM 63v	100 nF	5%	100V
C526	CPM 63v	100 nF	5%	100V
C528	CPM 63v	15 nF	5%	100V
C529	Ceramic	680 pF	5%	100V
C530	CPM 63v	22 nF	5%	100V
C540	CPM 63v	2.2 nF	5%	100V
C550	TANTALE GOUTTE	2.2 µF	20%	16V
C551	CPM 63v	1 nF	5%	100V
C552	Radial Electrolytic	10 µF	20%	25V
C553	Ceramic	33 pF	5%	100V
C560	Ceramic	100 pF	5%	100V
C561	Radial Electrolytic	100 µF	20%	25V
C562	Radial Electrolytic	100 µF	20%	25V
C563	Ceramic	220 pF	5%	100V
C580	CPM 63v	22 nF	5%	100V
C581	CPM 63v	22 nF	5%	100V
C584	CPM 63v	33 nF	5%	100V
C585	CPM 63v	33 nF	5%	100V
C591	CPM 63v	33 nF	5%	100V
C600	TANTALE GOUTTE	2.2 µF	20%	16V
C601	CPM 63v	100 nF	5%	100V
C610	CPM 63v	10 nF	5%	100V
C611	CPM 63v	1 nF	5%	100V
C620	CPM 63v	47 nF	5%	100V
C621	CPM 63v	6.8 nF	5%	100V
C630	CPM 63v	1 nF	5%	100V

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
C650	CPM 63v	1 nF	5%	100V
C661	CPM 63v	470 nF	5%	100V
C662	CPM 63v	22 nF	5%	100V
C663	CPM 63v	2.2 nF	5%	100V
C670	CPM 63v	1 nF	5%	100V
C701	Radial Electrolytic	10 µF	20%	25V
C804	CPM 63v	150 nF	5%	100V
C810	CPM 63v	220 nF	5%	100V
C811	CPM 63v	22 nF	5%	100V
C812		NC		
C813		NC		
C814	CPM 63v	100 nF	5%	100V
C815	Radial Electrolytic	10 µF	20%	25V
C829	CPM 63v	47 nF	5%	100V
C830	CPM 63v	33 nF	5%	100V
C831	TANTALE GOUTTE	10 µF	20%	16V
C840	CPM 63v	6.8 nF	5%	100V
C841	CPM 63v	2.2 nF	5%	100V
C842	CPM 63v	100 nF	5%	100V
C843	CPM 63v	100 nF	5%	100V
C844	CPM 63v	47 nF	5%	100V
C845	TANTALE GOUTTE	2.2 µF	20%	16V
C860	CPM 63v	2.2 nF	5%	100V
C861	CPM 63v	2.2 nF	5%	100V
C862	CPM 63v	4.7 nF	5%	100V
C863	CPM 63v	2.2 nF	5%	100V
C864	TANTALE GOUTTE	2.2 µF	20%	16V
C880	CPM 63v	100 nF	5%	100V
C881	CPM 63v	1 nF	5%	100V
D1	pont diode WA06	15k		
D2	1N4148			
D3	1N4148			
D4	1N4148			
D5	BXZ55C	4V7		
D8	BZX55C	4V7		
D9	1N4148			
D110	1N4148			
D111	1N4148			
D112	1N4148			
D200	1N4148			
D201	1N4148			
D210	1N4148			
D220	1N4148			
D221	1N4148			
D230	1N4148			
D240	1N4148			
D241	1N4148			
D250	1N4148			
D260	1N4148			
D261	1N4148			
D262	1N4148			

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
D270	1N4148			
D301	1N4148			
D302	1N4148			
D303	1N4148			
D305	1N4148			
D306	1N4148			
D420	1N4148			
D421	1N4148			
D422	1N4148			
D429	1N4148			
D430	1N4148			
D431	1N4148			
D432	1N4148			
D433	1N4148			
D434	1N4148			
D450	1N4148			
D451	1N4148			
D452	1N4148			
D453	1N4148			
D470	1N4148			
D471	1N4148			
D472	1N4148			
D473	1N4148			
D480	1N6263			
D510	1N4148			
D511	1N4148			
D512	1N4148			
D600	1N4148			
D601	1N4148			
D610	1N4148			
D620	1N4148			
D621	1N4148			
D630	1N4148			
D640	1N4148			
D641	1N4148			
D650	1N4148			
D660	1N4148			
D661	1N4148			
D662	1N4148			
D670	1N4148			
D701	1N4148			
D702	1N4148			
D703	1N4148			
D705	1N4148			
D706	1N4148			
D820	1N4148			
D821	1N4148			
D822	1N4148			
D830	1N4148			
D831	1N4148			
D832	1N4148			
D833	1N4148			

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
D834	1N4148			
D840	1N4148			
D850	1N4148			
D851	1N4148			
D852	1N4148			
D853	1N4148			
D870	1N4148			
D871	1N4148			
D872	1N4148			
D873	1N4148			
D880	1N6263			
F1	Fusible	250mA / 250V		
J1	XLR3F			
J2	XLR3F			
J3	XLR3M			
J4	XLR3M			
J5	XLR4M			
J8	3x1.5mm2			
J11	connecteur HE14	4PTS		
J12	connecteur HE14	4PTS		
J13	connecteur HE14	4PTS		
LED1	3mm	Red		
LED2	3mm	Red		
LED3	5mm	Bicolor		
LED4	3mm	Green		
LED5	3mm	Red		
LED6	3mm	Yellow		
LED7	3mm	Yellow		
LED8	3mm	Yellow		
LED14	3mm	Green		
LED15	3mm	Red		
LED16	3mm	Yellow		
LED17	3mm	Yellow		
LED18	3mm	Yellow		
P1	PA11QZ DUO13CR	10kA	20%	
R1	Metal	2.49 kΩ	1%	1/4W
R2	Metal	221 Ω	1%	1/4W
R4	Metal	22.1 kΩ	1%	1/4W
R5	Metal	22.1 kΩ	1%	1/4W
R6	Metal	22.1 kΩ	1%	1/4W
R7	Metal	562 kΩ	1%	1/4W
R9	Metal	6.81 kΩ	1%	1/4W
R10	Metal	2.49 kΩ	1%	1/4W
R11	Metal	221 Ω	1%	1/4W
R13	Metal	2.21 kΩ	1%	1/4W
R14	Metal	2.21 kΩ	1%	1/4W
R16	Metal	10 kΩ	1%	1/4W
R17	Metal	2.21 kΩ	1%	1/4W
R20		NC		
R21	Metal	121 kΩ	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R22		NC		
R100	Metal	18.2 kΩ	1%	1/4W
R101	Metal	18.2 kΩ	1%	1/4W
R102	Metal	18.2 kΩ	1%	1/4W
R103	Metal	18.2 kΩ	1%	1/4W
R104	Metal	11 kΩ	1%	1/4W
R105	Metal	10 kΩ	1%	1/4W
R106		NC		
R110	Metal	12.1 kΩ	1%	1/4W
R111	Metal	681 kΩ	1%	1/4W
R112	Metal	6.81 kΩ	1%	1/4W
R113	Metal	825 kΩ	1%	1/4W
R114	Metal	10 kΩ	1%	1/4W
R115	Metal	178 kΩ	1%	1/4W
R116	Metal	4.64 kΩ	1%	1/4W
R117	Metal	82.5 kΩ	1%	1/4W
R118	Metal	5.62 kΩ	1%	1/4W
R119	Metal	1 MΩ	1%	1/4W
R120	Metal	22.1 kΩ	1%	1/4W
R121	Metal	562 kΩ	1%	1/4W
R122	Metal	3.32 kΩ	1%	1/4W
R123	Metal	3.32 kΩ	1%	1/4W
R125	Metal	8.25 kΩ	1%	1/4W
R126	Metal	221 kΩ	1%	1/4W
R127	Metal	121 kΩ	1%	1/4W
R128	Metal	2.74 kΩ	1%	1/4W
R129	Metal	2.74 kΩ	1%	1/4W
R130	Metal	13 kΩ	1%	1/4W
R131	Metal	27.4 kΩ	1%	1/4W
R132	Metal	464 Ω	1%	1/4W
R133	Metal	464 Ω	1%	1/4W
R134	Metal	18.2 kΩ	1%	1/4W
R135	Metal	10 kΩ	1%	1/4W
R136	Metal	10 kΩ	1%	1/4W
R137	Metal	10 kΩ	1%	1/4W
R140	Metal	13 kΩ	1%	1/4W
R141	Metal	27.4 kΩ	1%	1/4W
R142	Metal	464 Ω	1%	1/4W
R143	Metal	464 Ω	1%	1/4W
R144	Metal	12.1 kΩ	1%	1/4W
R145	Metal	12.1 kΩ	1%	1/4W
R146	Metal	10 kΩ	1%	1/4W
R147	Metal	10 kΩ	1%	1/4W
R150	Metal	20 kΩ	1%	1/4W
R151	Metal	18.2 kΩ	1%	1/4W
R152	Metal	51.1 Ω	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R153	Metal	100 kΩ	1%	1/4W
R154	Metal	5.11 kΩ	1%	1/4W
R155	Metal	20 kΩ	1%	1/4W
R160	Metal	4.64 kΩ	1%	1/4W
R161	Metal	4.64 kΩ	1%	1/4W
R162	Metal	51.1 Ω	1%	1/4W
R163	Metal	2 kΩ	1%	1/4W
R165	Metal	51.1 Ω	1%	1/4W
R170	Metal	5.62 kΩ	1%	1/4W
R171	Metal	5.62 kΩ	1%	1/4W
R172	Metal	0 Ω	1%	1/4W
R173	Metal	2 kΩ	1%	1/4W
R191	Metal	0 Ω	1%	1/4W
R192	Metal	11 kΩ	1%	1/4W
R193	Metal	10 kΩ	1%	1/4W
R194	Metal	2 kΩ	1%	1/4W
R195		NC		
R200	Metal	150 kΩ	1%	1/4W
R201	Metal	3.32 kΩ	1%	1/4W
R202	Metal	2.49 kΩ	1%	1/4W
R204	Metal	22.1 kΩ	1%	1/4W
R205	Metal	20 kΩ	1%	1/4W
R206	Metal	22.1 kΩ	1%	1/4W
R210	Metal	1 kΩ	1%	1/4W
R211	Metal	10 kΩ	1%	1/4W
R212	Metal	22 MΩ	5%	1/4W
R213	Metal	3.32 kΩ	1%	1/4W
R214	Metal	10 kΩ	1%	1/4W
R220	Metal	150 kΩ	1%	1/4W
R221	Metal	10 kΩ	1%	1/4W
R222	Metal	2.49 kΩ	1%	1/4W
R224	Metal	22.1 kΩ	1%	1/4W
R225	Metal	20 kΩ	1%	1/4W
R226	Metal	8.25 kΩ	1%	1/4W
R230	Metal	10 kΩ	1%	1/4W
R233	Metal	3.32 kΩ	1%	1/4W
R234	Metal	10 kΩ	1%	1/4W
R241	Metal	221 kΩ	1%	1/4W
R242	Metal	100 kΩ	1%	1/4W
R243	Metal	2 kΩ	1%	1/4W
R244	Metal	100 kΩ	1%	1/4W
R250	Metal	100 Ω	1%	1/4W
R253	Metal	3.32 kΩ	1%	1/4W
R254	Metal	33.2 kΩ	1%	1/4W
R260	Metal	10 kΩ	1%	1/4W
R261	Metal	8.25 kΩ	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R262	Metal	332 kΩ	1%	1/4W
R264	Metal	1 MΩ	1%	1/4W
R265	Metal	68.1 kΩ	1%	1/4W
R266	Metal	100 Ω	1%	1/4W
R270	Metal	10 kΩ	1%	1/4W
R273	Metal	3.32 kΩ	1%	1/4W
R301	Metal	10 kΩ	1%	1/4W
R302	Metal	10 kΩ	1%	1/4W
R303	Metal	20 kΩ	1%	1/4W
R304	Metal	20 kΩ	1%	1/4W
R305	Metal	15 kΩ	1%	1/4W
R306	Metal	2 kΩ	1%	1/4W
R307	Metal	13 kΩ	1%	1/4W
R309	Metal	121 kΩ	1%	1/4W
R310	Metal	20 kΩ	1%	1/4W
R311	Metal	2 kΩ	1%	1/4W
R312	Metal	13 kΩ	1%	1/4W
R313	Metal	13 kΩ	1%	1/4W
R314	Metal	22.1 kΩ	1%	1/4W
R317		NC		
R401	Metal	3.92 kΩ	1%	1/4W
R402	Metal	3.92 kΩ	1%	1/4W
R403	Metal	3.92 kΩ	1%	1/4W
R404	Metal	3.92 kΩ	1%	1/4W
R405	Metal	150 kΩ	1%	1/4W
R406	Metal	150 kΩ	1%	1/4W
R407	Metal	150 kΩ	1%	1/4W
R409	Metal	12.1 kΩ	1%	1/4W
R410	Metal	221 kΩ	1%	1/4W
R411	Metal	22.1 kΩ	1%	1/4W
R412	Metal	1 MΩ	1%	1/4W
R413	Metal	27.4 kΩ	1%	1/4W
R414	Metal	2.21 kΩ	1%	1/4W
R415	Metal	1 MΩ	1%	1/4W
R416		NC		
R417		NC		
R418	Metal	8.25 kΩ	1%	1/4W
R419	Metal	100 kΩ	1%	1/4 W
R421	Metal	11 kΩ	1%	1/4W
R422	Metal	2.74 kΩ	1%	1/4W
R423	Metal	8.25 kΩ	1%	1/4W
R424	Metal	33.2 kΩ	1%	1/4W
R425	Metal	11 kΩ	1%	1/4W
R426	Metal	2 kΩ	1%	1/4W
R427	Metal	3.32 kΩ	1%	1/4W
R428	Metal	6.81 kΩ	1%	1/4W
R429		NC		

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R430	Metal	68.1 kΩ	1%	1/4W
R431	Metal	1 MΩ	1%	1/4W
R432	Metal	1.5 MΩ	1%	1/4W
R433	Metal	562 kΩ	1%	1/4W
R434	Metal	100 kΩ	1%	1/4W
R435	Metal	56.2 kΩ	1%	1/4W
R436	Metal	3.32 kΩ	1%	1/4W
R437	Metal	332 kΩ	1%	1/4W
R438	Metal	100 kΩ	1%	1/4W
R439	Metal	2 kΩ	1%	1/4W
R440	Metal	27.4 kΩ	1%	1/4W
R441	Metal	27.4 kΩ	1%	1/4W
R442	Metal	3.32 kΩ	1%	1/4W
R443	Metal	4.64 kΩ	1%	1/4W
R444	Metal	10 kΩ	1%	1/4W
R445	Metal	221 kΩ	1%	1/4W
R446	Metal	1 MΩ	1%	1/4W
R447	Metal	825 kΩ	1%	1/4W
R448	Metal	46.4 kΩ	1%	1/4W
R449	Metal	3.32 kΩ	1%	1/4W
R450	Metal	100 kΩ	1%	1/4W
R451	Metal	332 kΩ	1%	1/4W
R452	Metal	100 kΩ	1%	1/4W
R457	Metal	10 kΩ	1%	1/4W
R460	Metal	15 kΩ	1%	1/4W
R461	Metal	22.1 kΩ	1%	1/4W
R462	Metal	2.21 kΩ	1%	1/4W
R463	Metal	10 kΩ	1%	1/4W
R464	Metal	1 MΩ	1%	1/4W
R465	Metal	221 kΩ	1%	1/4W
R466	Metal	464 kΩ	1%	1/4W
R467	Metal	90.9 kΩ	1%	1/4W
R468	Metal	3.32 kΩ	1%	1/4W
R469	Metal	100 kΩ	1%	1/4W
R470	Metal	332 kΩ	1%	1/4W
R471	Metal	100 kΩ	1%	1/4W
R480	Metal	10 kΩ	1%	1/4W
R481	Metal	22 MΩ	5%	1/4W
R482	Metal	4.64 kΩ	1%	1/4W
R491	Metal	221 kΩ	1%	1/4W
R492	Metal	121 kΩ	1%	1/4W
R493	Metal	121 kΩ	1%	1/4W
R500	Metal	18.2 kΩ	1%	1/4W
R501	Metal	18.2 kΩ	1%	1/4W
R502	Metal	18.2 kΩ	1%	1/4W
R503	Metal	18.2 kΩ	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R504	Metal	11 kΩ	1%	1/4W
R505	Metal	10 kΩ	1%	1/4W
R506		NC		
R510	Metal	12.1 kΩ	1%	1/4W
R511	Metal	681 kΩ	1%	1/4W
R512	Metal	6.81 kΩ	1%	1/4W
R513	Metal	825 kΩ	1%	1/4W
R514	Metal	10 kΩ	1%	1/4W
R515	Metal	178 kΩ	1%	1/4W
R516	Metal	4.64 kΩ	1%	1/4W
R517	Metal	82.5 kΩ	1%	1/4W
R518	Metal	5.62 kΩ	1%	1/4W
R519	Metal	1 MΩ	1%	1/4W
R520	Metal	22.1 kΩ	1%	1/4W
R521	Metal	562 kΩ	1%	1/4W
R522	Metal	3.32 kΩ	1%	1/4W
R523	Metal	3.32 kΩ	1%	1/4W
R525	Metal	8.25 kΩ	1%	1/4W
R526	Metal	221 kΩ	1%	1/4W
R527	Metal	121 kΩ	1%	1/4W
R528	Metal	2.74 kΩ	1%	1/4W
R529	Metal	2.74 kΩ	1%	1/4W
R530	Metal	13 kΩ	1%	1/4W
R531	Metal	27.4 kΩ	1%	1/4W
R532	Metal	464 Ω	1%	1/4W
R533	Metal	464 Ω	1%	1/4W
R534	Metal	18.2 kΩ	1%	1/4W
R535	Metal	10 kΩ	1%	1/4W
R536	Metal	10 kΩ	1%	1/4W
R537	Metal	10 kΩ	1%	1/4W
R540	Metal	13 kΩ	1%	1/4W
R541	Metal	27.4 kΩ	1%	1/4W
R542	Metal	464 Ω	1%	1/4W
R543	Metal	464 Ω	1%	1/4W
R544	Metal	12.1 kΩ	1%	1/4W
R545	Metal	12.1 kΩ	1%	1/4W
R546	Metal	10 kΩ	1%	1/4W
R547	Metal	10 kΩ	1%	1/4W
R550	Metal	20 kΩ	1%	1/4W
R551	Metal	18.2 kΩ	1%	1/4W
R552	Metal	51.1 Ω	1%	1/4W
R553	Metal	100 kΩ	1%	1/4W
R554	Metal	5.11 kΩ	1%	1/4W
R555	Metal	20 kΩ	1%	1/4W
R560	Metal	4.64 kΩ	1%	1/4W
R561	Metal	4.64 kΩ	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R562	Metal	51.1 Ω	1%	1/4W
R563	Metal	2 kΩ	1%	1/4W
R565	Metal	51.1 Ω	1%	1/4W
R580		NC		
R581	Metal	15 kΩ	1%	1/4W
R582	Metal	0 Ω	1%	1/4W
R583		NC		
R584	Metal	2.74 kΩ	1%	1/4W
R585	Metal	27.4 kΩ	1%	1/4W
R591	Metal	5.11 kΩ	1%	1/4W
R592	Metal	10 kΩ	1%	1/4W
R593	Metal	10 kΩ	1%	1/4W
R600	Metal	150 kΩ	1%	1/4W
R601	Metal	3.32 kΩ	1%	1/4W
R602	Metal	2.49 kΩ	1%	1/4W
R604	Metal	22.1 kΩ	1%	1/4W
R605	Metal	20 kΩ	1%	1/4W
R606	Metal	22.1 kΩ	1%	1/4W
R610	Metal	1 kΩ	1%	1/4W
R611	Metal	10 kΩ	1%	1/4W
R612	Metal	22 MΩ	5%	1/4W
R613	Metal	3.32 kΩ	1%	1/4W
R614	Metal	10 kΩ	1%	1/4W
R620	Metal	150 kΩ	1%	1/4W
R621	Metal	10 kΩ	1%	1/4W
R622	Metal	2.49 kΩ	1%	1/4W
R624	Metal	22.1 kΩ	1%	1/4W
R625	Metal	20 kΩ	1%	1/4W
R626	Metal	8.25 kΩ	1%	1/4W
R630	Metal	10 kΩ	1%	1/4W
R633	Metal	3.32 kΩ	1%	1/4W
R634	Metal	10 kΩ	1%	1/4W
R641	Metal	221 kΩ	1%	1/4W
R642	Metal	100 kΩ	1%	1/4W
R643	Metal	2 kΩ	1%	1/4W
R644	Metal	100 kΩ	1%	1/4W
R650	Metal	100 Ω	1%	1/4W
R653	Metal	3.32 kΩ	1%	1/4W
R654	Metal	33.2 kΩ	1%	1/4W
R660	Metal	10 kΩ	1%	1/4W
R661	Metal	8.25 kΩ	1%	1/4W
R662	Metal	332 kΩ	1%	1/4W
R664	Metal	1 MΩ	1%	1/4W
R665	Metal	68.1 kΩ	1%	1/4W
R666	Metal	100 Ω	1%	1/4W
R670	Metal	10 kΩ	1%	1/4W

PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R673	Metal	3.32 kΩ	1%	1/4W
R701	Metal	10 kΩ	1%	1/4W
R702	Metal	10 kΩ	1%	1/4W
R703	Metal	20 kΩ	1%	1/4W
R704	Metal	20 kΩ	1%	1/4W
R705	Metal	15 kΩ	1%	1/4W
R706	Metal	2 kΩ	1%	1/4W
R707	Metal	13 kΩ	1%	1/4W
R709	Metal	121 kΩ	1%	1/4W
R710	Metal	20 kΩ	1%	1/4W
R711	Metal	2 kΩ	1%	1/4W
R712	Metal	13 kΩ	1%	1/4W
R713	Metal	13 kΩ	1%	1/4W
R714	Metal	22.1 kΩ	1%	1/4W
R717		NC		
R801	Metal	3.92 kΩ	1%	1/4W
R802	Metal	3.92 kΩ	1%	1/4W
R803	Metal	3.92 kΩ	1%	1/4W
R804	Metal	3.92 kΩ	1%	1/4W
R805	Metal	150 kΩ	1%	1/4W
R806	Metal	150 kΩ	1%	1/4W
R807	Metal	150 kΩ	1%	1/4W
R809	Metal	12.1 kΩ	1%	1/4W
R810	Metal	221 kΩ	1%	1/4W
R811	Metal	22.1 kΩ	1%	1/4W
R812	Metal	1 MΩ	1%	1/4W
R813	Metal	27.4 kΩ	1%	1/4W
R814	Metal	2.21 kΩ	1%	1/4W
R815	Metal	1 MΩ	1%	1/4W
R816		NC		
R817		NC		
R818	Metal	8.25 kΩ	1%	1/4W
R819	Metal	100 kΩ	1%	1/4 W
R821	Metal	11 kΩ	1%	1/4W
R822	Metal	2.74 kΩ	1%	1/4W
R823	Metal	8.25 kΩ	1%	1/4W
R824	Metal	33.2 kΩ	1%	1/4W
R825	Metal	11 kΩ	1%	1/4W
R826	Metal	2 kΩ	1%	1/4W
R829	Metal	10 kΩ	1%	1/4W
R830	Metal	68.1 kΩ	1%	1/4W
R831	Metal	1 MΩ	1%	1/4W
R832	Metal	1.5 MΩ	1%	1/4W
R833	Metal	562 kΩ	1%	1/4W
R834	Metal	100 kΩ	1%	1/4W
R835	Metal	56.2 kΩ	1%	1/4W

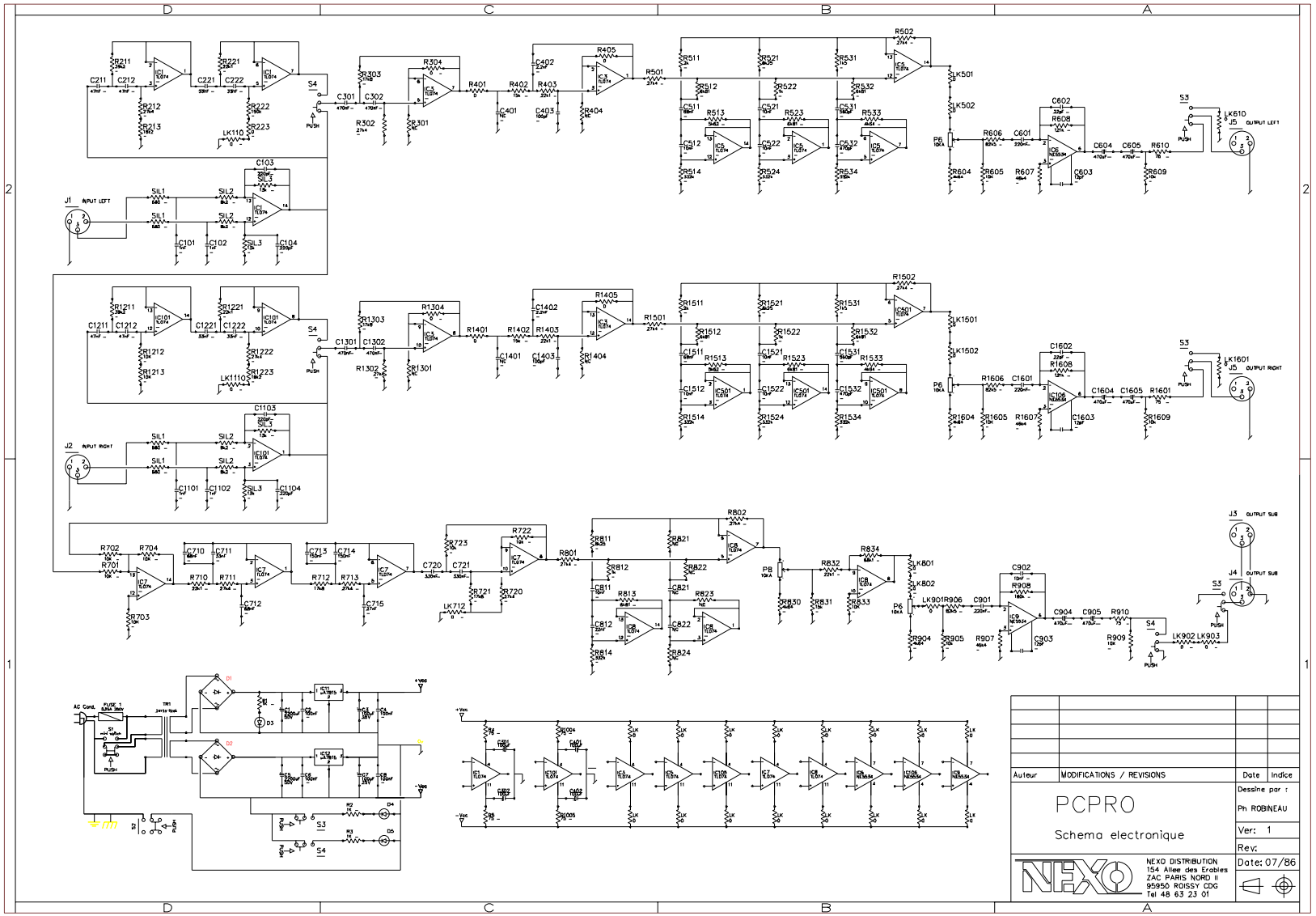
PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
R836	Metal	3.32 kΩ	1%	1/4W
R837	Metal	332 kΩ	1%	1/4W
R838	Metal	100 kΩ	1%	1/4W
R839	Metal	2 kΩ	1%	1/4W
R840	Metal	27.4 kΩ	1%	1/4W
R841	Metal	27.4 kΩ	1%	1/4W
R842	Metal	3.32 kΩ	1%	1/4W
R843	Metal	4.64 kΩ	1%	1/4W
R844	Metal	10 kΩ	1%	1/4W
R845	Metal	221 kΩ	1%	1/4W
R846	Metal	1 MΩ	1%	1/4W
R847	Metal	825 kΩ	1%	1/4W
R848	Metal	46.4 kΩ	1%	1/4W
R849	Metal	3.32 kΩ	1%	1/4W
R850	Metal	100 kΩ	1%	1/4W
R851	Metal	332 kΩ	1%	1/4W
R852	Metal	100 kΩ	1%	1/4W
R855	Metal	10 kΩ	1%	1/4W
R856	Metal	10 kΩ	1%	1/4W
R860	Metal	15 kΩ	1%	1/4W
R861	Metal	22.1 kΩ	1%	1/4W
R862	Metal	2.21 kΩ	1%	1/4W
R863	Metal	10 kΩ	1%	1/4W
R864	Metal	1 MΩ	1%	1/4W
R865	Metal	221 kΩ	1%	1/4W
R866	Metal	464 kΩ	1%	1/4W
R867	Metal	90.9 kΩ	1%	1/4W
R868	Metal	3.32 kΩ	1%	1/4W
R869	Metal	100 kΩ	1%	1/4W
R870	Metal	332 kΩ	1%	1/4W
R871	Metal	100 kΩ	1%	1/4W
R880	Metal	10 kΩ	1%	1/4W
R881	Metal	22 MΩ	5%	1/4W
R882	Metal	4.64 kΩ	1%	1/4W
R891	Metal	221 kΩ	1%	1/4W
R892	Metal	121 kΩ	1%	1/4W
R893	Metal	121 kΩ	1%	1/4W
REG1	LM317	AJUST +		
REG2	LM337	AJUST -		
RV150	T10FV	47kA	20%	
RV420	T10FV	47kA	20%	
RV430	T10FV	47kA	20%	
RV450	T10FV	47kA	20%	
RV470	T10FV	47kA	20%	
RV490	T10FV	47kA	20%	
RV550	T10FV	47kA	20%	
RV820	T10FV	47kA	20%	

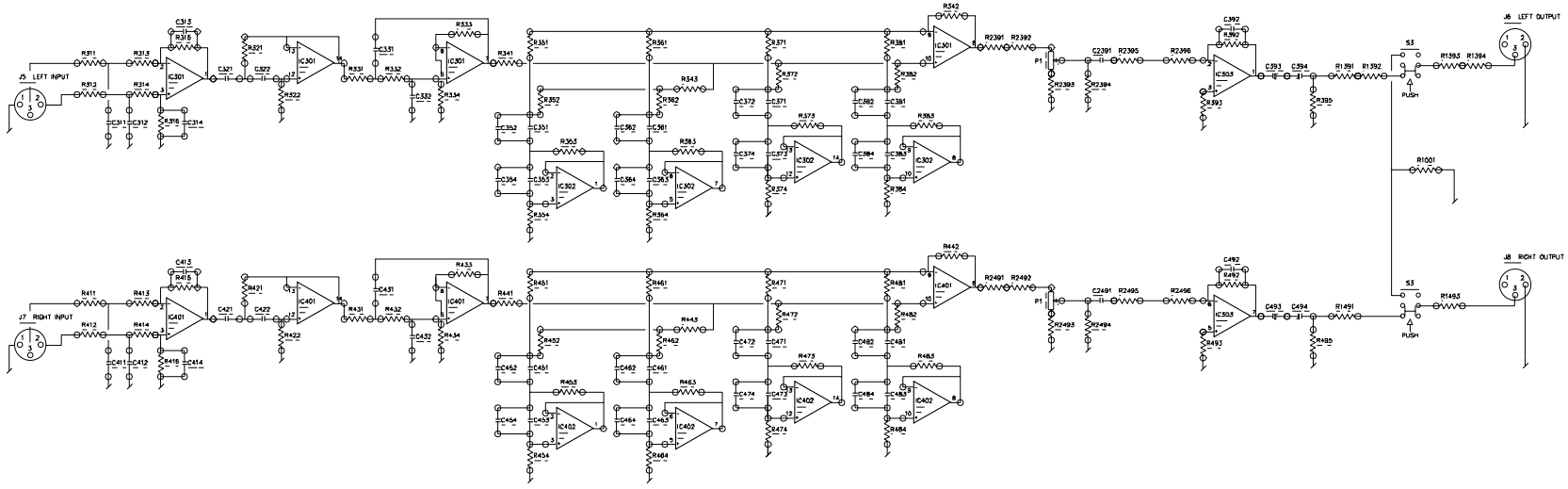
PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
RV830	T10FV	47kA	20%	
RV850	T10FV	47kA	20%	
RV870	T10FV	47kA	20%	
RV890	T10FV	47kA	20%	
RY1	FBR244	12 V		
SW1	SCHADOW F2U			
SW2	24BL	2RT		
SW3	24BL	2RT		
SW4	17.500/DP/8			
SW5	SCHADOW F2U			
T1	MYRRA 45046	2x15V		14VA
TP0	POINT TEST			
TP+0	POINT TEST			
TP_0	POINT TEST			
TR1	BC548			
TR4	BD135			
TR300	PN4393			
TR429	NC			
TR430	BC548			
TR450	BC548			
TR451	PN4393			
TR470	BC548			
TR471	PN4393			
TR700	PN4393			
TR830	BC548			
TR831	PN4393			
TR840	PN4393			
TR850	BC548			
TR870	BC548			
U1	TL074			
U2	TL074			
U3	TL074			
U4	LM13700			
U5	DBX2150			
U6	LM837			
U7	TL074			
U8	TL064			
U9	TL064			
U10	TL064			
U11	TL064			
U12	TL064			
U13	TL072			
U14	LM339			
U15	TL074			
U16	TL074			
U17	DBX2150			
U18	TL072			
U19	LM339			
U20	LM13700			
U21	TL074			
U22	TL064			
U23	TL064			

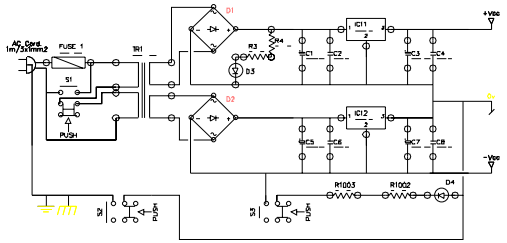
PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
U24	TL064			
U25	TL064			
U26	TL064			
U27	MC 33079 CP			
U28	TL074			
U29	TL074			
W37				
WD1	Ceramic	100nF	10%	
WD2	Ceramic	100nF	10%	
WD3	Ceramic	100nF	10%	
WD4	Ceramic	100nF	10%	
WD5	Ceramic	100nF	10%	
WD6	Ceramic	100nF	10%	
WD7	Ceramic	100nF	10%	
WD8	Ceramic	100nF	10%	
WD9	Ceramic	100nF	10%	
WD10	Ceramic	100nF	10%	
WD11	Ceramic	100nF	10%	
WD12	Ceramic	100nF	10%	
WD13	Ceramic	100nF	10%	
WD14	Ceramic	100nF	10%	
WD15	Ceramic	100nF	10%	
WD16	Ceramic	100nF	10%	
WD17	Ceramic	100nF	10%	
WD18	Ceramic	100nF	10%	
WD19	Ceramic	100nF	10%	
WD20	Ceramic	100nF	10%	
WD21	Ceramic	100nF	10%	
WD22	Ceramic	100nF	10%	
WD23	Ceramic	100nF	10%	
WD24	Ceramic	100nF	10%	
WD25	Ceramic	100nF	10%	
WD26	Ceramic	100nF	10%	
WD27	Ceramic	100nF	10%	
WD28	Ceramic	100nF	10%	
WD29	Ceramic	100nF	10%	
WD30	Ceramic	100nF	10%	
WD31	Ceramic	100nF	10%	
WD32	Ceramic	100nF	10%	
WD33	Ceramic	100nF	10%	
WD34	Ceramic	100nF	10%	
WD35	Ceramic	100nF	10%	
WD36	Ceramic	100nF	10%	
WD37	Ceramic	100nF	10%	
WD38	Ceramic	100nF	10%	
WD39	Ceramic	100nF	10%	
WD40	Ceramic	100nF	10%	
WD41	Ceramic	100nF	10%	
WD42	Ceramic	100nF	10%	
WD43	Ceramic	100nF	10%	
WD44	Ceramic	100nF	10%	
WD45	Ceramic	100nF	10%	

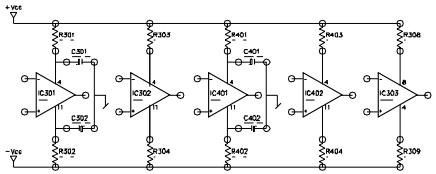
PC TDController 1.0 05 MARS 93				
REFERENCE	**DESCRIPTION**	**SPECS**	**TOL**	**RATING**
WD46	Ceramic	100nF	10%	
WD47	Ceramic	100nF	10%	
WD48	Ceramic	100nF	10%	
WD49	Ceramic	100nF	10%	
WD50	Ceramic	100nF	10%	
WD51	Ceramic	100nF	10%	
WD52	Ceramic	100nF	10%	
WD53	Ceramic	100nF	10%	
WD54	Ceramic	100nF	10%	
WR1		NC		
WR2		NC		
WR10	Metal	0Ω	1%	1/4W

III.5. SCHEMATICS









Auteur	MODIFICATIONS / REVISIONS	Date	Indice

PC PRO

Schema electronique

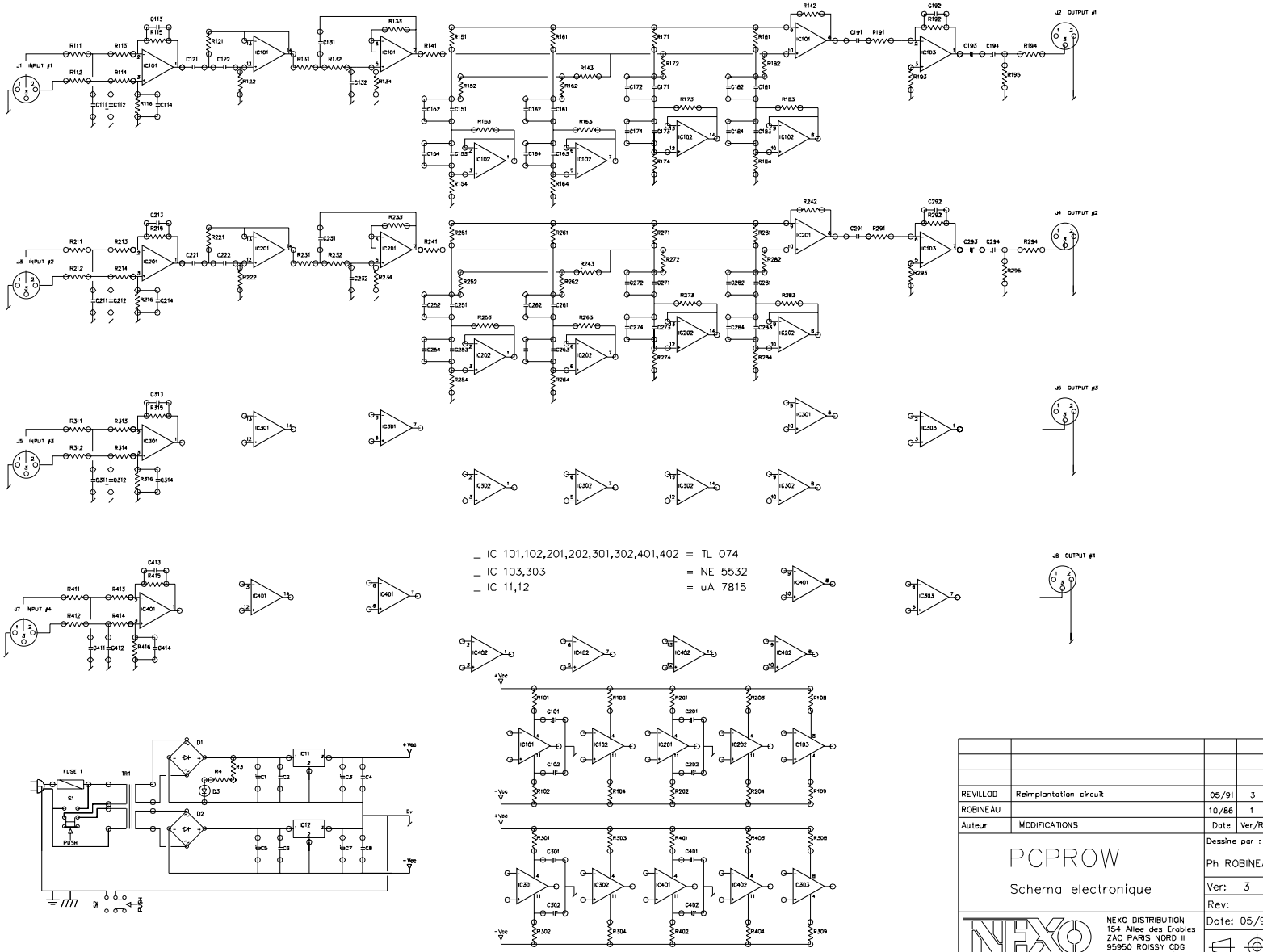
Dessine par : Ph ROBINEAU

Date: 04/91

Ech :

No : 3.0

NEXO DISTRIBUTION
154 Allee des Erables
ZAC PARIS NORD II
95950 ROISSY CDG
Tel 48 63 23 01



REVILLOD	Reimplantation circuit	05/91	3
ROBINEAU		10/86	1
Auteur	MODIFICATIONS	Date	Ver/Rev

PCPROW

Schema electronique

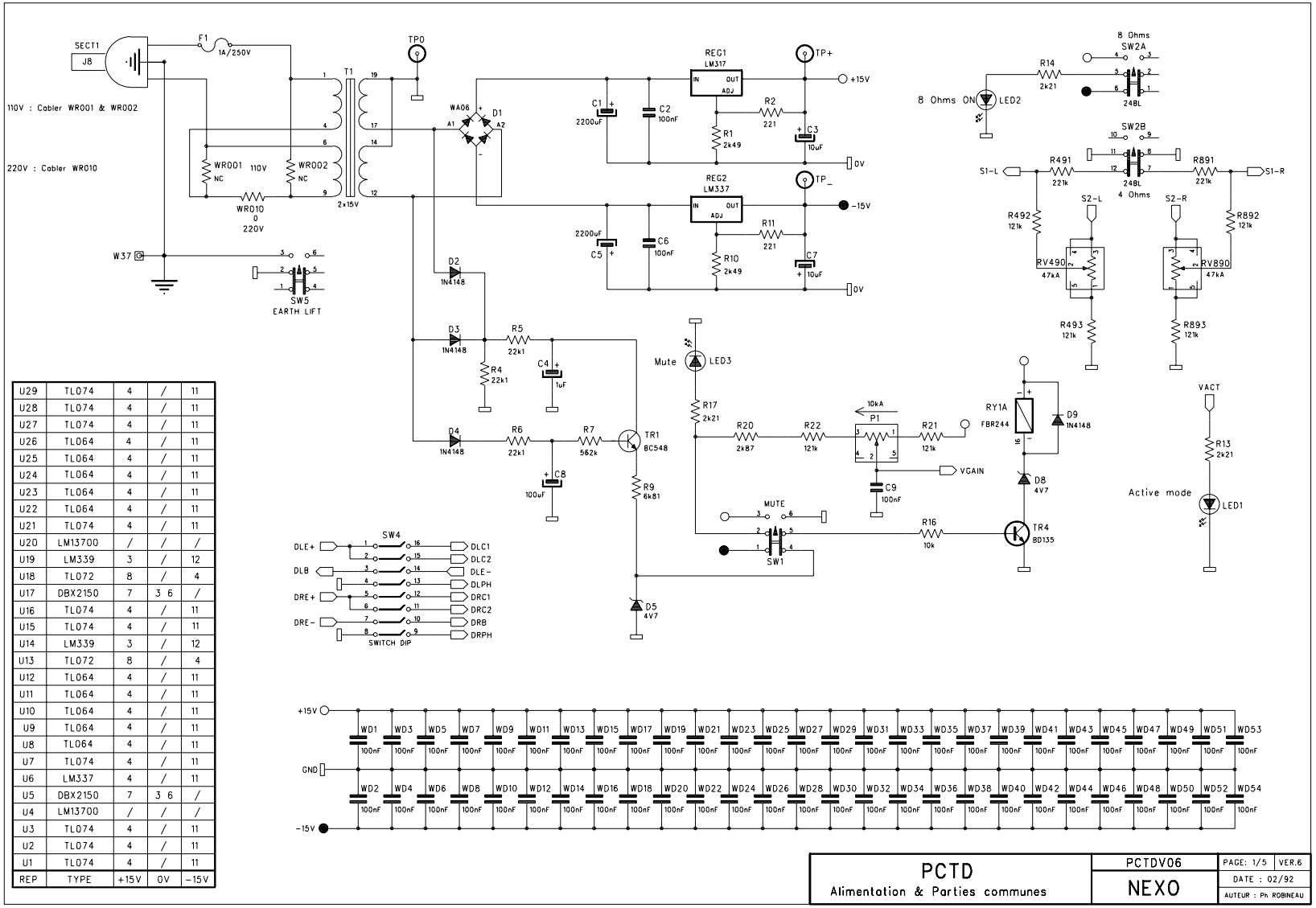
Dessine par : Ph ROBINEAU

Ver: 3

Rev:

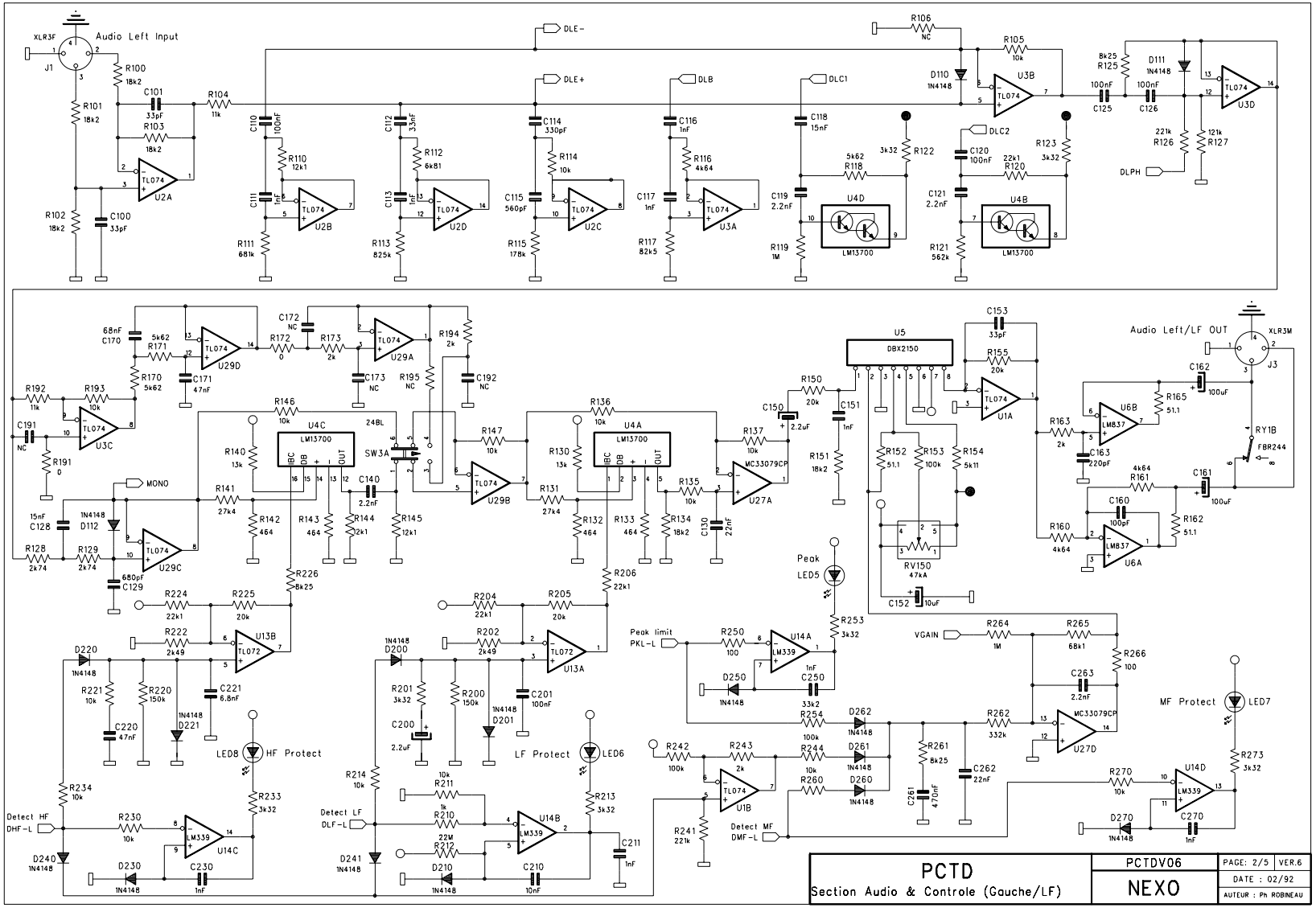
Date: 05/91

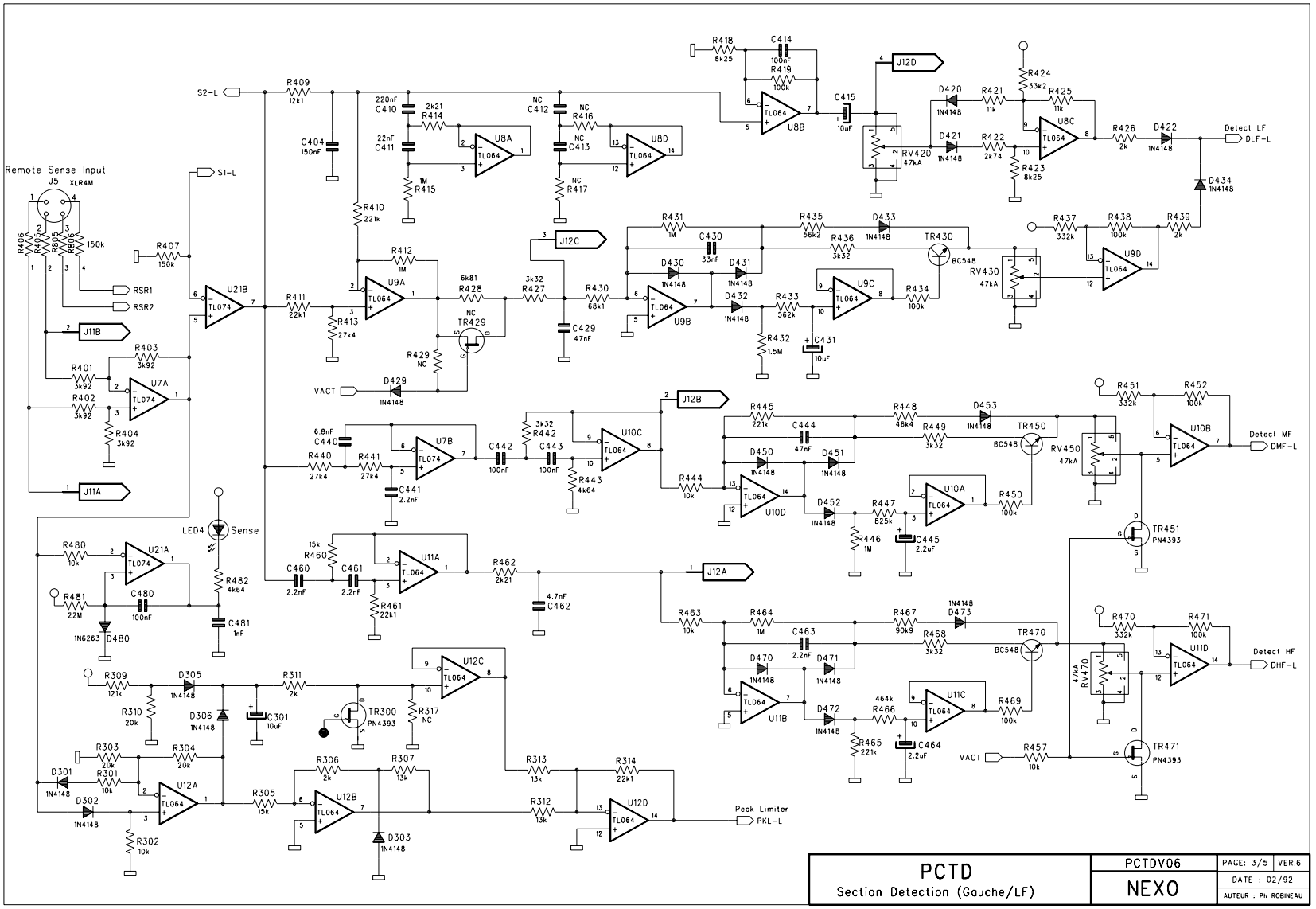
NEXO DISTRIBUTION
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ZAC PARIS NORD II
95950 ROISSY CDG
Tel 48 63 23 01

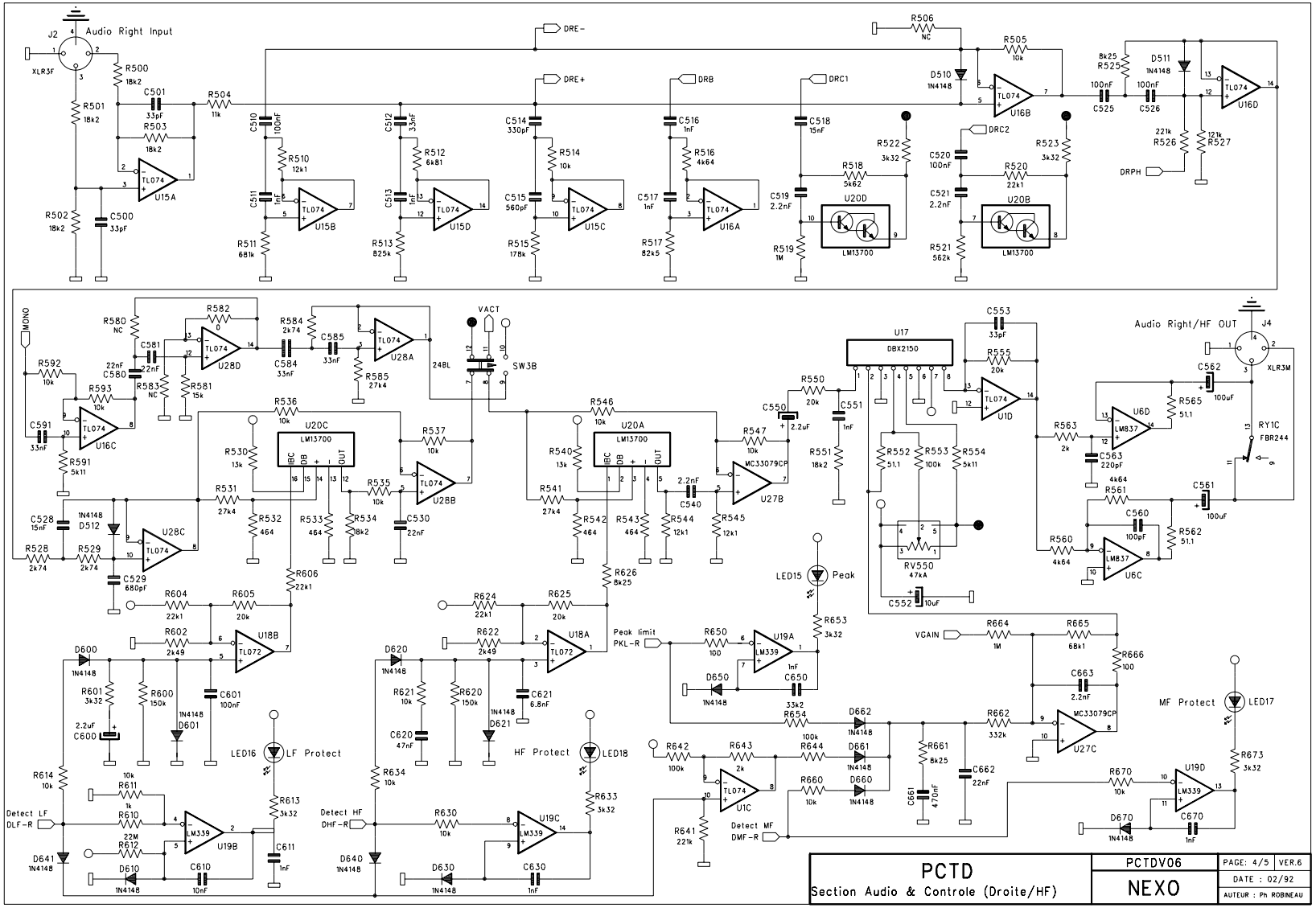


U29	TL074	4	/	11
U28	TL074	4	/	11
U27	TL074	4	/	11
U26	TL064	4	/	11
U25	TL064	4	/	11
U24	TL064	4	/	11
U23	TL064	4	/	11
U22	TL064	4	/	11
U21	TL074	4	/	11
U20	LM13700	/	/	/
U19	LM339	3	/	12
U18	TL072	8	/	4
U17	DBX2150	7	3 6	/
U16	TL074	4	/	11
U15	TL074	4	/	11
U14	LM339	3	/	12
U13	TL072	8	/	4
U12	TL064	4	/	11
U11	TL064	4	/	11
U10	TL064	4	/	11
U9	TL064	4	/	11
U8	TL064	4	/	11
U7	TL074	4	/	11
U6	LM337	4	/	11
U5	DBX2150	7	3 6	/
U4	LM13700	/	/	/
U3	TL074	4	/	11
U2	TL074	4	/	11
U1	TL074	4	/	11
REP	TYPE	+15V	0V	-15V

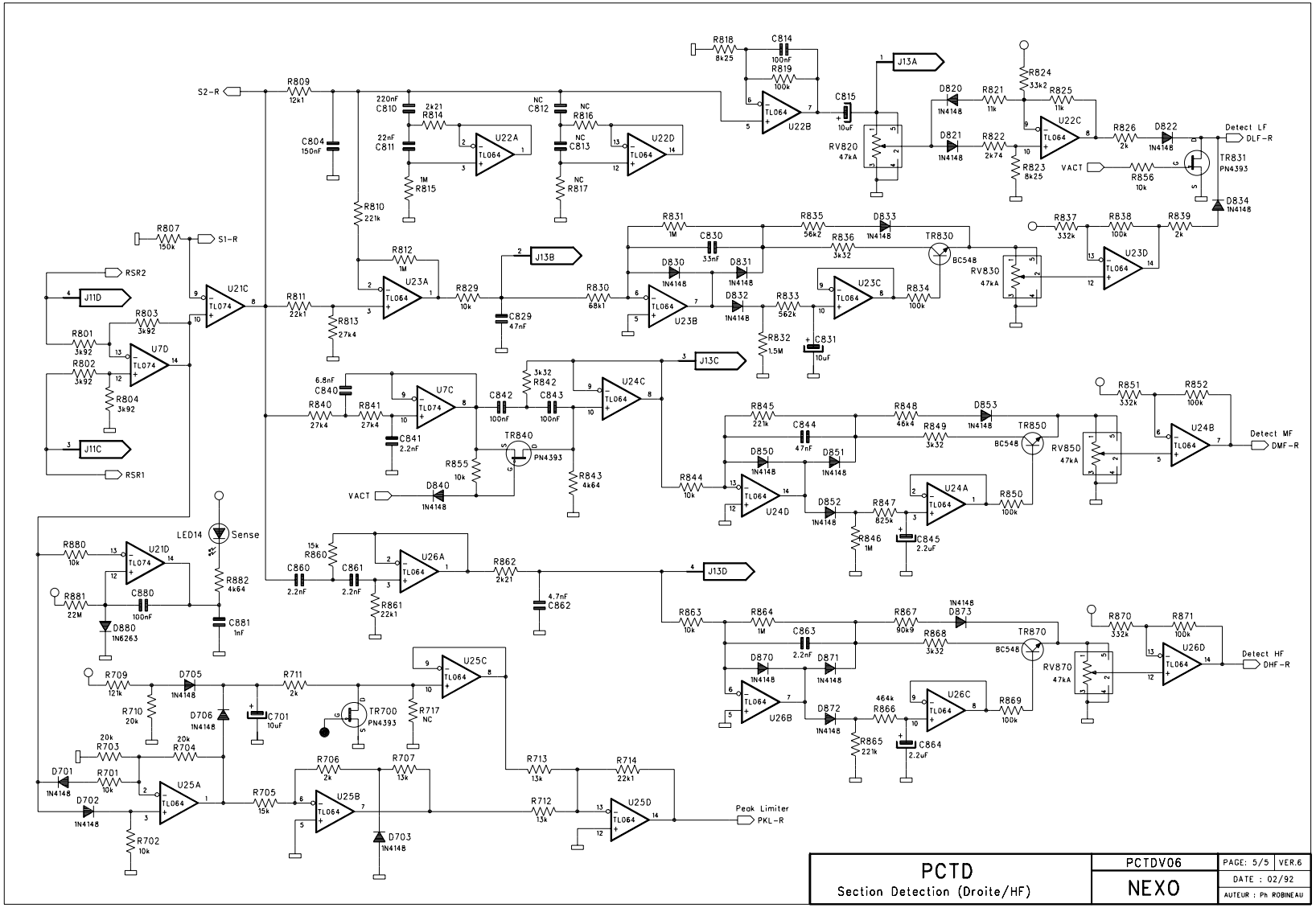
PCTD Alimentation & Parties communes	PCTDV06	PAGE: 1/5	VER.6
	NEXO	DATE : 02/92	
		AUTEUR : Ph. ROBINEAU	


Audio Left Input
XLR3F
J1
DLE-
DLE+
DLB
DLC1
DLC2
DLPH
U2A
U2B
U2C
U2D
U3A
U3B
U3C
U3D
U4A
U4B
U4C
U4D
LM13700
U29A
U29B
U29C
U29D
U27A
U1A
U5
DBX2150
Audio Left/LF OUT
XLR3M
J3
U6A
U6B
LM837
RY1B
FBR244
Peak
LED5
VGAIN
MF Protect
LED7
HF Protect
LED8
LF Protect
LED6
Peak limit
PKL-L
Detect HF
DHF-L
Detect LF
DLF-L
Detect MF
DMF-L
MONO
U13A
U13B
U14A
U14B
U14C
U14D
U1B
U27D
RV150
47kA
PCTD
Section Audio & Controle (Gauche/LF)
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Remote Sense Input
J5 XLR4M
S2-L
S1-L
RSR1
RSR2
VACT
LED4 Sense
Peak Limiter
PKL-L
Detect LF
DLF-L
Detect MF
DMF-L
Detect HF
DHF-L
PCTD
Section Detection (Gauche/LF)
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PCTD Section Audio & Controle (Droite/HF)	PCTDV06 NEXO	PAGE: 4/5 | VER.6 DATE : 02/92 AUTEUR : Ph ROBINEAU


S2-R
S1-R
RSR2
RSR1
J11D
J11C
J13A
J13B
J13C
J13D
Sense
LED14
VACT
Detect LF
DLF-R
Detect MF
DMF-R
Detect HF
DHF-R
Peak Limiter
PKL-R
PCTD
Section Detection (Droite/HF)
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AUTEUR : Ph ROBINEAU