

BELANGRIJK:
houd deze schema's bij het orgel! !
IMPORTANT:
keep the schematic diagrams with the organ! !
WICHTIG:
Schaltpläne bei Orgel aufbewahren! !

SERVICE INFORMATION

0275

solina

STRING – ENSEMBLE

INHOUD – CONTENTS – INHALT

Gate circuit	021.0001
Bass circuit	003.3015
Divider circuit A	005.0077
Divider circuit B	005.0078
Register circuit	003.3016
Master oscillator circuit	005.0071
Schematic diagram	
Wiring diagram	
Signal flow diagram	
Control circuit	012.0025
Modulator circuit B	012.0022
Divider circuit C	005.0082
Power supply	008.0066

Part No.*

Sheet No.

*Printed circuit
Part number!

015.0212
015.0213
015.0214

TECHNISCHE GEGEVENS

Netfrequentie
Netspanning*

Ingang (input):
Expressionpedal

Output:
Low output I
High output II

Zekeringen:
net: 220 V*
18,5 V 2x
traag

TECHNICAL DATA

Mains frequency
Mains voltage*

Input connection:
Expressionpedal

Output :
Low output I
High output II

Fuses:
mains: 220 V*
18,5 V 2x
slow action

TECHNISCHE DATEN

Netzfrequenz
Netzspannung*
50/60 Hz
220 V (115-240-250*)

Eingang (input):
Schwellpedal

Ausgangsabnahme:
Low output I $\pm 1,5$ V tt - imp: 3 kOhm
High output II ± 5 V tt - imp: 5 kOhm

Sicherungen:
Netz: 220 V*
18,5 V 2x
träge
{
thermal release in primary winding (micro STB 4239 disconnect temp. 115 °C)
3,15 Amp.

* 115 - 240 - 250 V.

*Voor 115, 240 en 250 Volt netspanning; als volgt te werk gaan:

- verwijder kap van de transformator
- de draad op de 220 V aansluiting omzetten naar de gewenste netspanning

*For 115, 240 and 250 Volt operation:

- remove cover of transformer
- relocate mains voltage to appropriate voltage.

*Für 115, 240 und 250 V Netzspannung wie folgt handeln:

- Die Kappe des Transformators entfernen
- Den Draht des 220 V Anschlusses in die gewünschte Netzspannung umsetzen.

Service dokumentatie:

Service information:

Kundendienst dokumentation:

(aanvragen bij servicedienst te Bodegraven)
(inquire by your importer or MCH Holland)
(fragen Sie bei Ihrem Importeur oder MCH)

Service onderdelenlijst zie:

Service parts list see:

Service-Ersatzteilenliste siehe:



Schema beschrijvingen zie:

For theory of Operation see:

Schaltplanbeschreibungen siehe:



Storings- en lokalisatielijst zie

Trouble shooting guide see:

Fehlersucheliste siehe:



ATTENTIE:

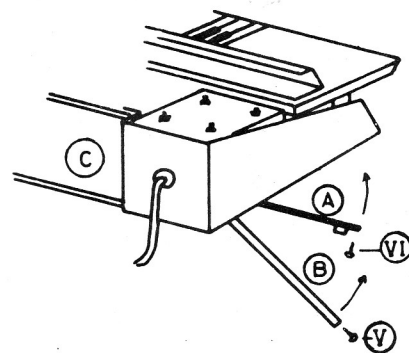
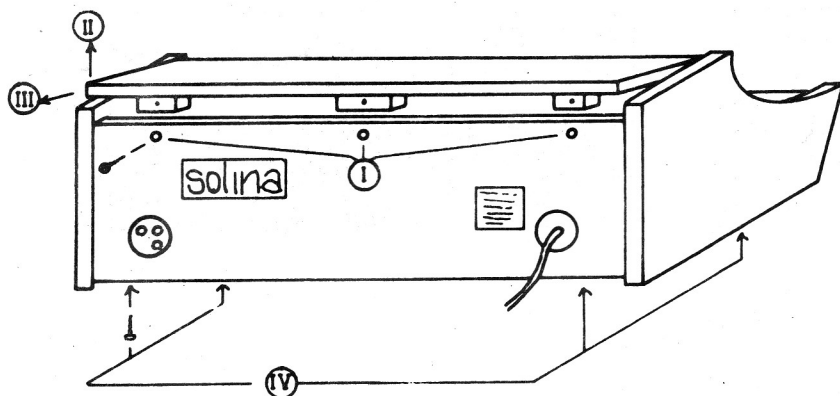
ATTENTION:

ACHTUNG:

THEORY OF OPERATION:

Divider circuit * 2 *

Divider circuit should be *2* instead of *1*



DEMONTAGE STRING-ENSEMBLE

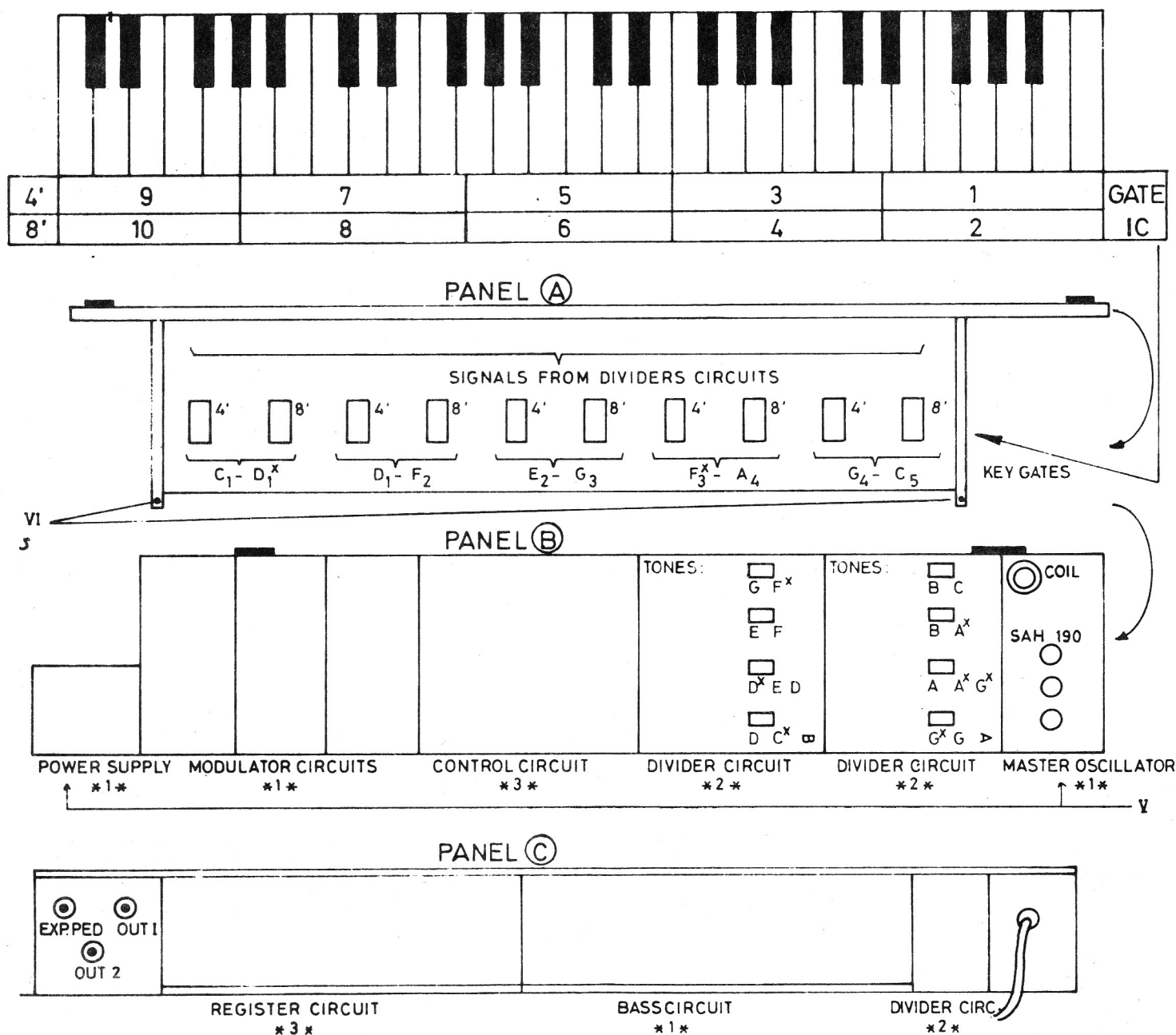
1. Verwijder schroeven I
2. Til bovenblad op, zie II
3. Schuif bovenblad weg, zie III
4. Verwijder schroeven IV
5. De konstruktie kan nu uit de kast worden getild.
6. De panelen A en B zijn klapbaar na verwijdering van schroeven V en VI

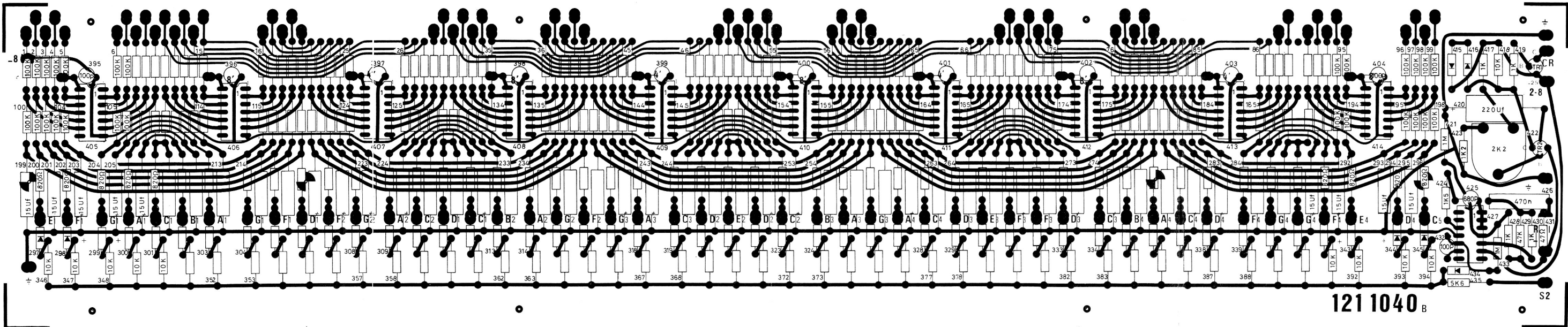
DISASSEMBLY OF STRING-ENSEMBLE

1. Remove (3) screws I
2. Raise cover, see II
3. Push cover out of the way, see III
4. Remove (4) screws IV
5. Lift out unit from cabinet
6. Panels A and B will fold out of way after removing screws V and VI

DEMONTAGE STRING-ENSEMBLE

1. Schrauben rausdrehen (siehe I)
2. Oberbrett anheben (siehe II)
3. Oberbrett wegschieben (siehe III)
4. Schrauben rausdrehen (siehe IV)
5. Die Konstruktion kann jetzt aus der Kiste gehoben werden.
6. Die Paneelen a und b sind klapbar, nachdem die Schrauben rausgedreht sind. (siehe V und VI).





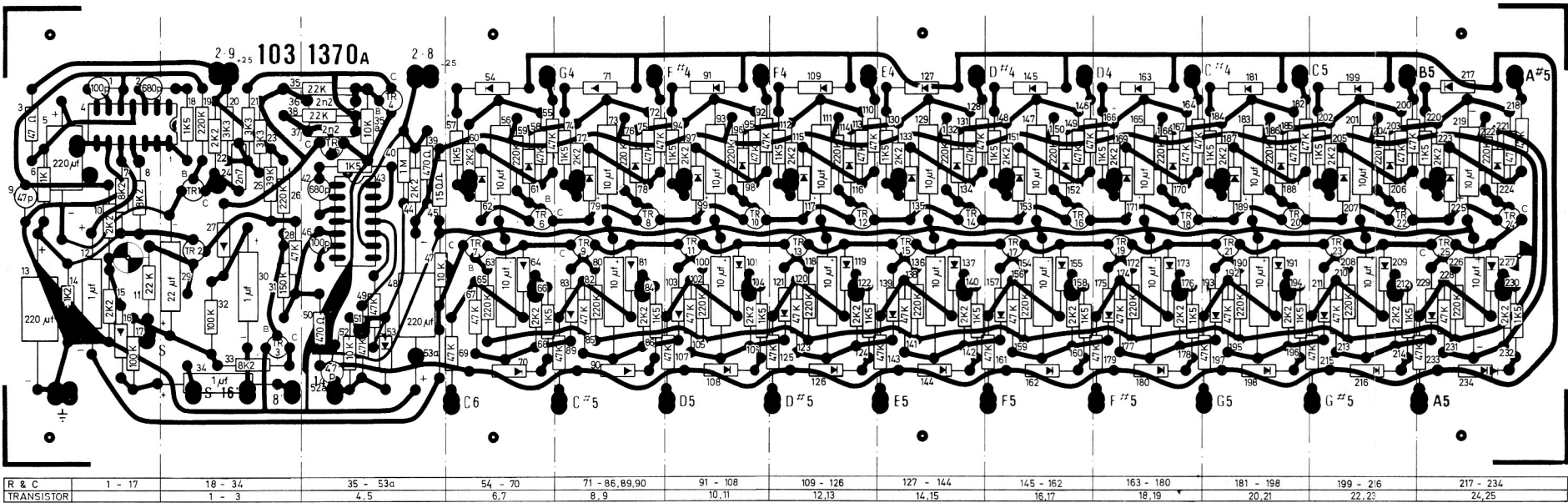
210 3479	RESISTOR	431
210 3821	"	200,202,204... 296
210 3102	"	417,419,428,430
210 3122	"	423
210 3152	"	426
210 3562	"	435
210 3103	"	346,347,348... 394,418
210 3473	"	429
210 3104	"	12,3,89,91,92,188,190,191... 198
210 3105	"	421,433
314 2101	CAPACITOR	395,396,397... 404,432
313 2681	"	425
310 2474	"	426
314 8159	EL CAPACITOR	199,201,203... 295
314 6221	"	420
230 0055	POT.METER	422
420 0317	DIODE	297,298,299... 345,415,416,434
411 1072	TRANSISTOR	TR 1
411 1610	"	TR 2
435 1470	I.C.	405,406,407... 414
436 0709	"	427
121 1040 B	CIRCUIT BOARD	
PART NO.	NAME	POSITION NO.

GATE CIRCUIT

PART NO. 021 0001

A

210 3479	RESISTOR	3
210 3471	"	50
210 3102	"	6
210 3152	"	18,41,57,68,74,86,94,106,112,124,130,142,146
210 3222	"	180,166,178,184,196,202,214,220,232
210 3122	"	10,15,22,44,60,66,77,84,97,104,115,122,133,140
210 3103	"	151,158,169,178,187,194,205,212,223,230
210 3105	"	20,21,23
210 3122	"	7,8,33
210 3103	"	47,52,35a
210 3122	"	35,38,11
210 3122	"	14
210 3103	"	28
210 3473	"	26,49,51,55,58,67,69,72,75,85,89,92,95,105,107
210 3104	"	110,113,123,125,126,131,141,143,146,148,159,161
210 3154	"	154,161,177,178,180,185,195,197,200,203,213
210 3224	"	215,218,221,231,233
210 3104	"	17,32
210 2222	"	40
210 2222	CAPACITOR	36,37
313 2479	"	5,52a
313 2101	"	1,46
313 2681	"	2,42
314 8108	EL CAPACITOR	12,30,34
314 8108	"	56,63,73,80,93,100,111,118,129,136,147,154,165
314 8229	"	172,183,190,201,208,219,228
314 6221	"	29
411 1723	TRANSISTOR	TR 1,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
411 2602	"	TR 2
420 0317	DIODE	16,27,53,54,61,62,64,70,71,78,79,81,83,90,91,98
436 0709	IC	4,43
500 0905	JUMPER WIRE	53a
103 1370	CIRC. BOARD	
CODING	NAME	POSITION NO.

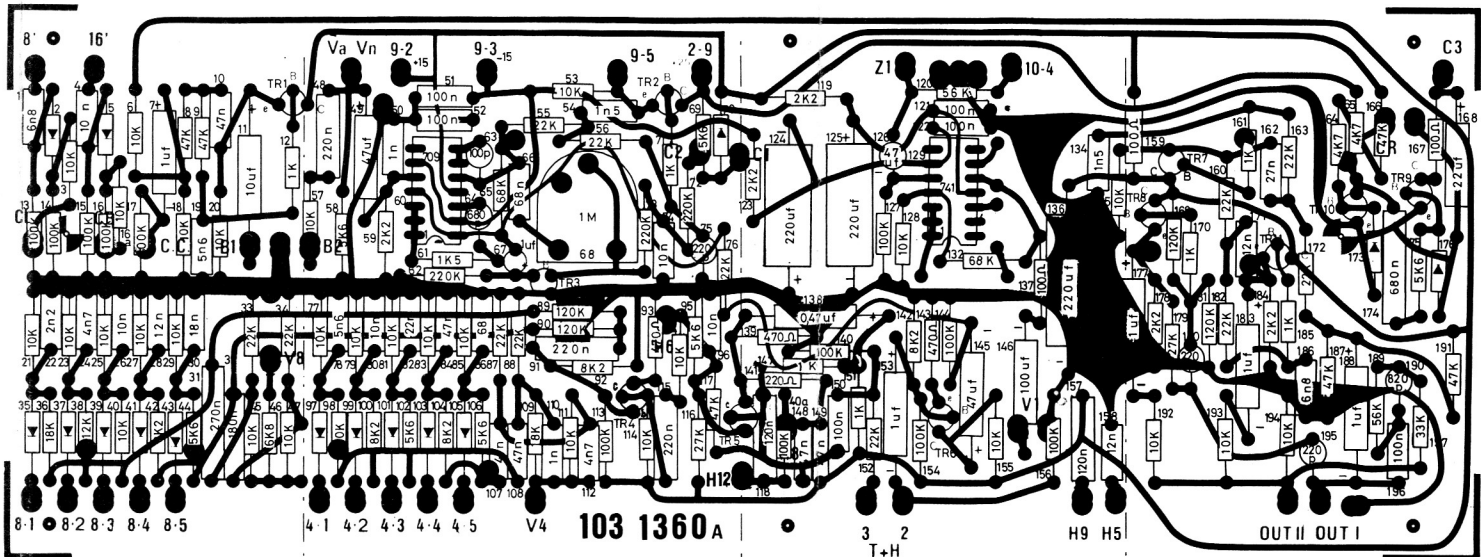


BASS CIRCUIT

PART NO. 003 3015

A

210 3101	RESISTOR	137,167
210 3221	"	141
210 3471	"	50,139,143
210 3102	"	12... 71,147,151,161,170,185
210 3152	"	59,119,123,178,184
210 3472	"	164,165
210 3562	"	44,58,69,95,102,106,175
210 3822	"	42,92,100,104,142
210 3103	"	3,6... 16a,18,20,21,23,25,27,29,40,45,47,53,57
210 3104	"	77,79,81,83,85,94,98,111,114,126,136,155,156
210 3122	"	192,193,194
210 3123	"	38
210 3183	"	36,109
210 3222	"	33,34,55,56,76,87,88,152,160,163,172,182
210 3273	"	116,179
210 3333	"	197
210 3473	"	8,9,117,156,187,191
210 3563	"	130,183
210 3583	"	65,132
210 3104	"	14,16,17,113,127,140,144,154,140a,15,13
210 3124	"	89,89,169,181
210 3224	"	62,72,73
211 3101	"	159
310 2102	CAPACITOR	50,110
310 2152	"	54,134
310 2222	"	2,2
310 2472	"	24,112
310 2562	"	15,74
310 2682	"	186,1
310 2103	"	26,74,80,96,4
310 2103	"	23,158,171
310 2183	"	30
310 2223	"	82
310 2273	"	162
310 2473	"	10,84,107,108,148,149
310 2683	"	66,86
310 2104	"	51,52,121,122,150,196
310 2136	"	118,187
310 2184	"	32
310 2224	"	48,91,115
310 2274	"	41
313 2104	"	63
313 2274	"	73,180,195
313 2584	"	64
313 2824	"	190
411 1632	TRANSISTOR	TR 4-5
411 1702	"	TR 10
411 1723	"	TR 1-2-6-7-8-11
411 1723	"	TR 9
412 1722	"	TR 3
230 0063	POT.METER	68



R & C	1 - 47	48 - 118	119 - 158	159 - 197
TRANSISTOR	TR 1	TR 2-3-4	TR 5-6	TR 7-8-9-10-11

314 8477	EL CAPACITOR	138
314 8108	"	7,153,177,183,188
314 8109	"	11
314 8229	"	168
314 8479	"	49,145
314 2101	"	146
314 6221	"	124,125,136
316 6106	"	67

316 1479	EL CAPACITOR	126
420 0317	DIODE	25,35,37,39,41,43,70,79,99,101,103,105,173,176
436 0709	I.C.	60
436 0741	"	129
103 1360	CIRCUIT BOARD	
PART NO.	NAME	POSITION NO.

316 1479	EL CAPACITOR	126
420 0317	DIODE	25,35,37,39,41,43,70,79,99,101,103,105,173,176
436 0709	I.C.	60
436 0741	"	129
103 1360	CIRCUIT BOARD	
PART NO.	NAME	POSITION NO.

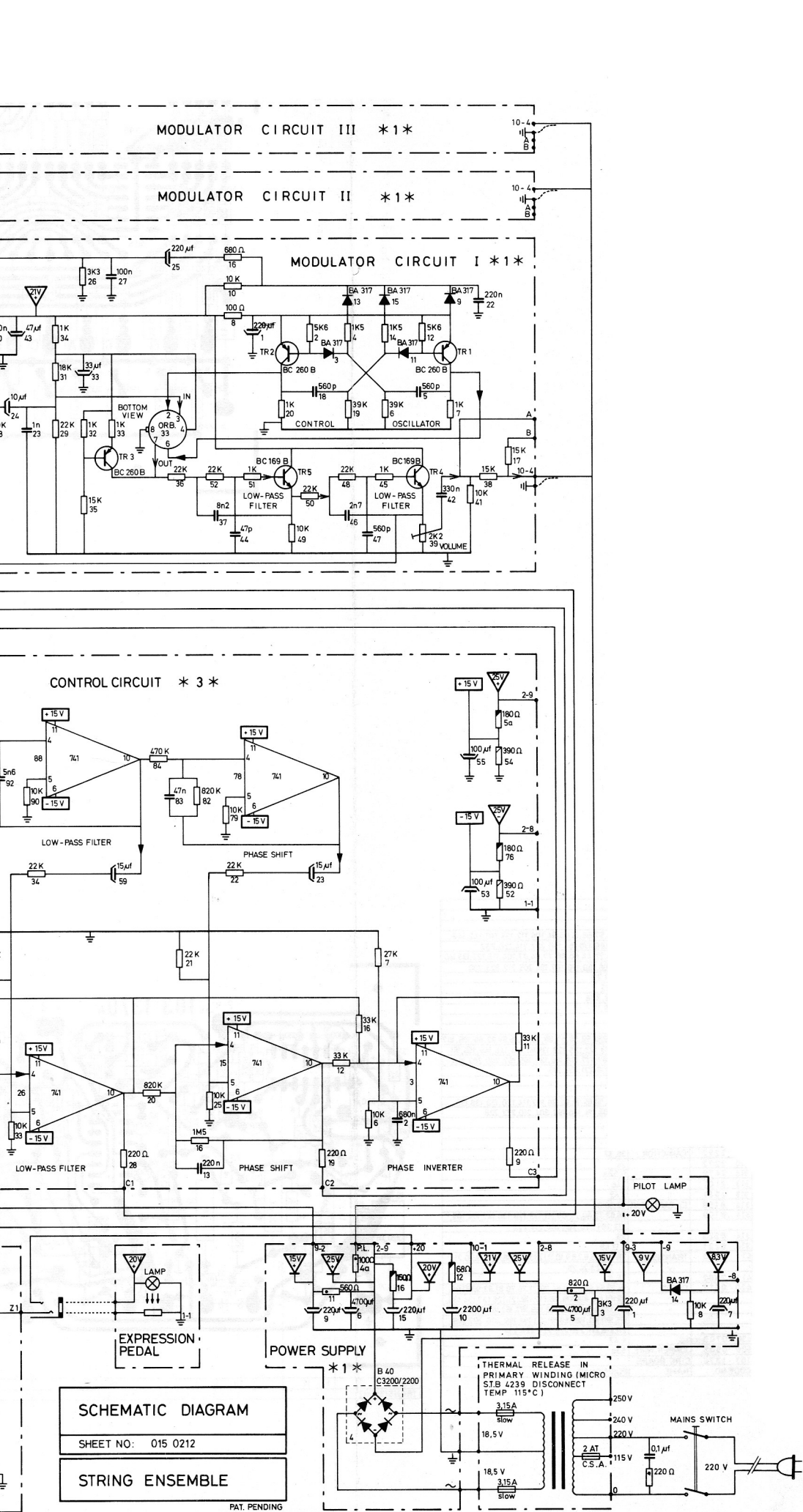
316 1479	EL CAPACITOR	126
420 0317	DIODE	25,35,37,39,41,43,70,79,99,101,103,105,173,176
436 0709	I.C.	60
436 0741	"	129
103 1360	CIRCUIT BOARD	
PART NO.	NAME	POSITION NO.

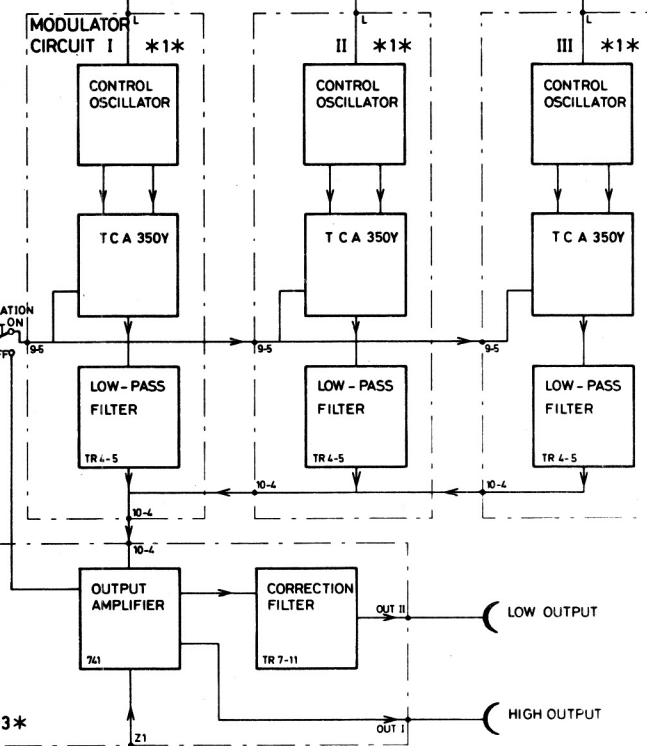
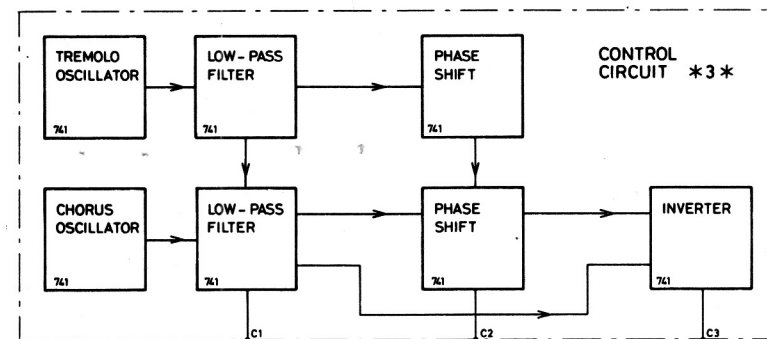
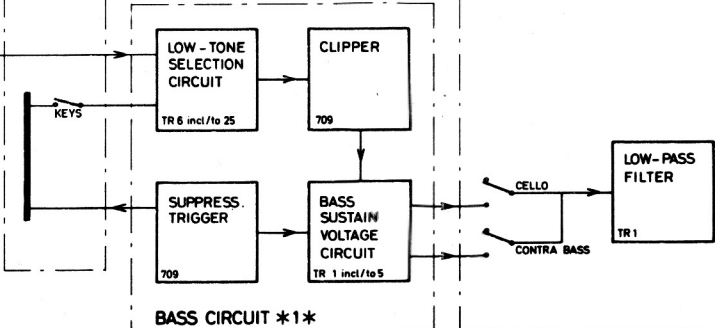
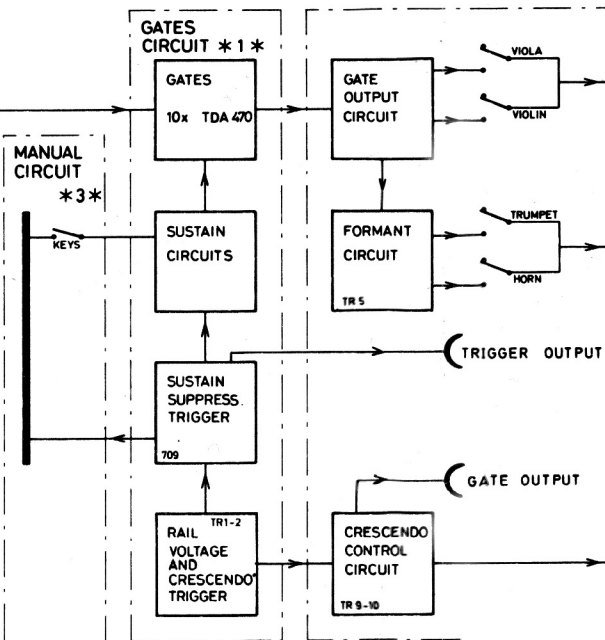
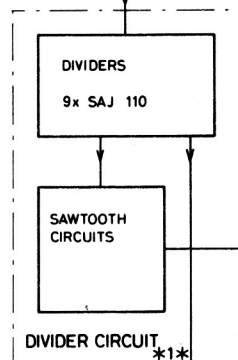
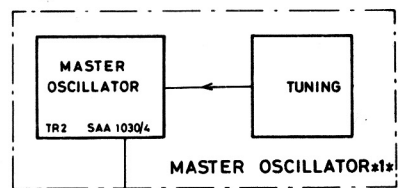
316 1479	EL CAPACITOR	126
420 0317	DIODE	25,35,37,39,41,43,70,79,99,101,103,105,173,176
436 0709	I.C.	60
436 0741	"	129
103 1360	CIRCUIT BOARD	
PART NO.	NAME	POSITION NO.

REGISTER CIRCUIT

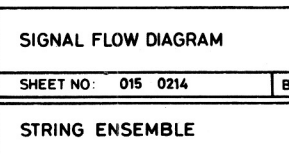
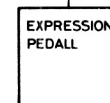
PART NO. 003 3016

A





REGISTER CIRCUIT *3*



PAT. APPLIED FOR