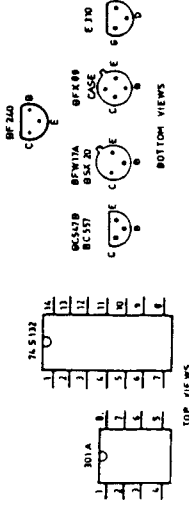


ALL COMPONENTS ON THIS PRINTED CIRCUIT BOARD CARRY PREFIX 210

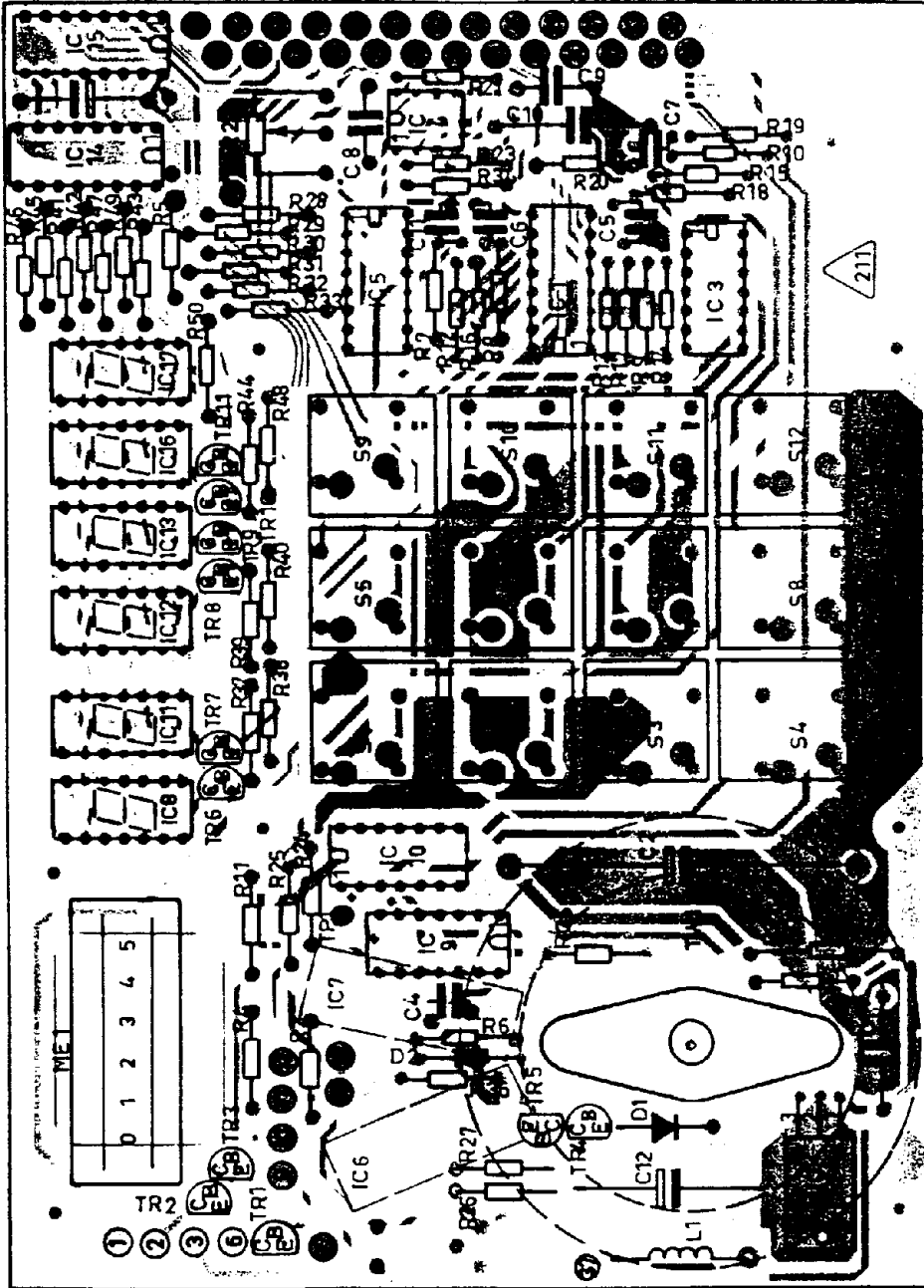
TYPE	V <sub>CC</sub> = +5V	PIN 1L	PIN 1T	PIN 7
74LS123				



X	Y	Z	VCO 3 - FREQUENCY
11V	11V	11V	(38.0085 - 47.9999) MHz
11V	0V	0V	(47.9985 - 57.9999) MHz
0V	11V	0V	(57.9985 - 67.9999) MHz

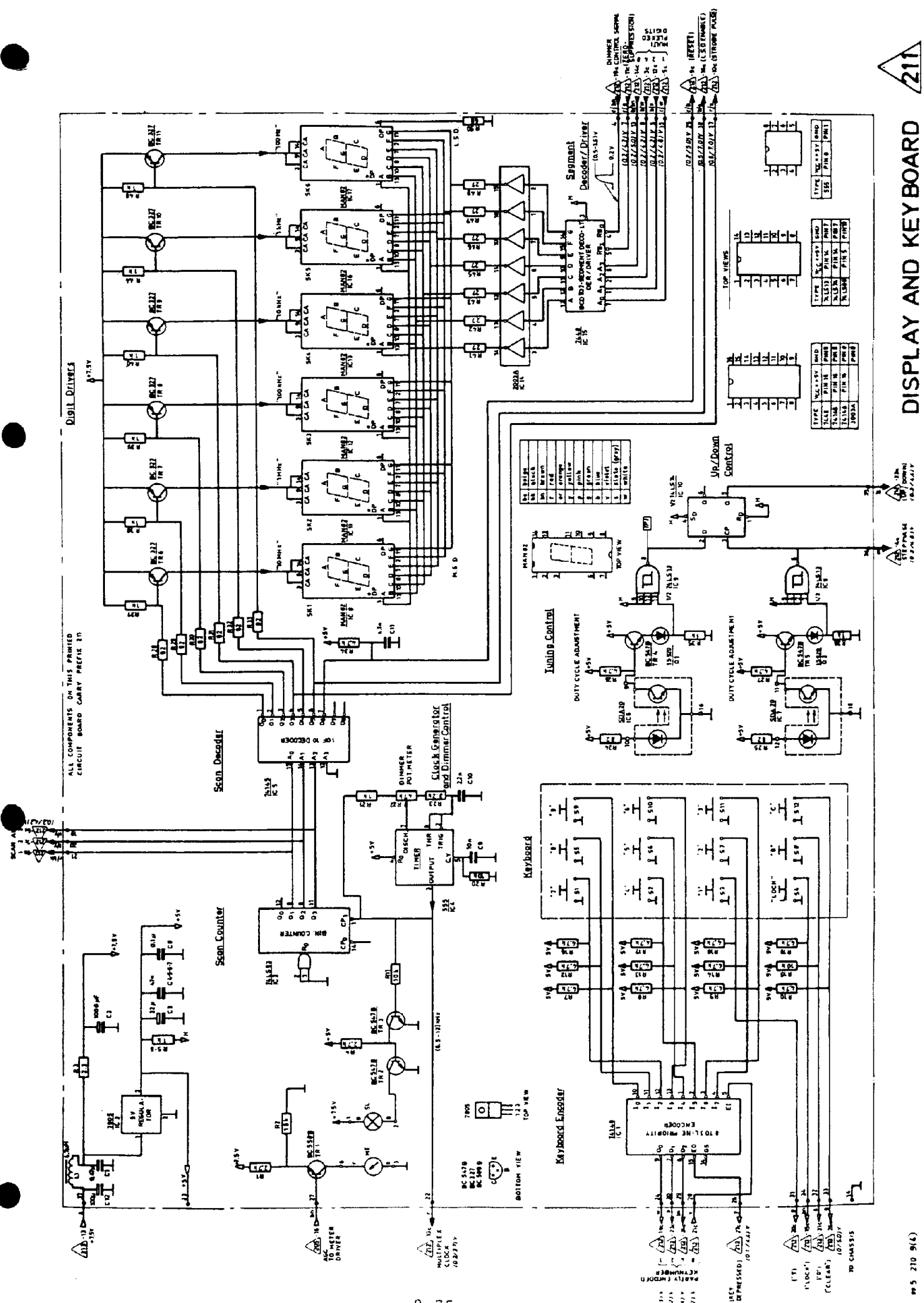
TO COMMON OR (20)

24 44 56 86 106 146 186  
116 206 246 286 326  
366 406 446 486 526  
566 606 646



PRINTED CIRCUIT BOARD **211**  
 VIEWED FROM COMPONENT SIDE

995 210 81



ALL COMPONENTS ON THIS PRINTED CIRCUIT BOARD CARRY PREFIX 111

Digit Drivers

Scan Decoder

Scan Counter

Clock Generator and Dimmer Control

Keyboard

Keyboard Encoder

Segment Decoder/Driver

Up/Down Control

Timing Control

Timing Control

Timing Control

Timing Control

Timing Control

Timing Control

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

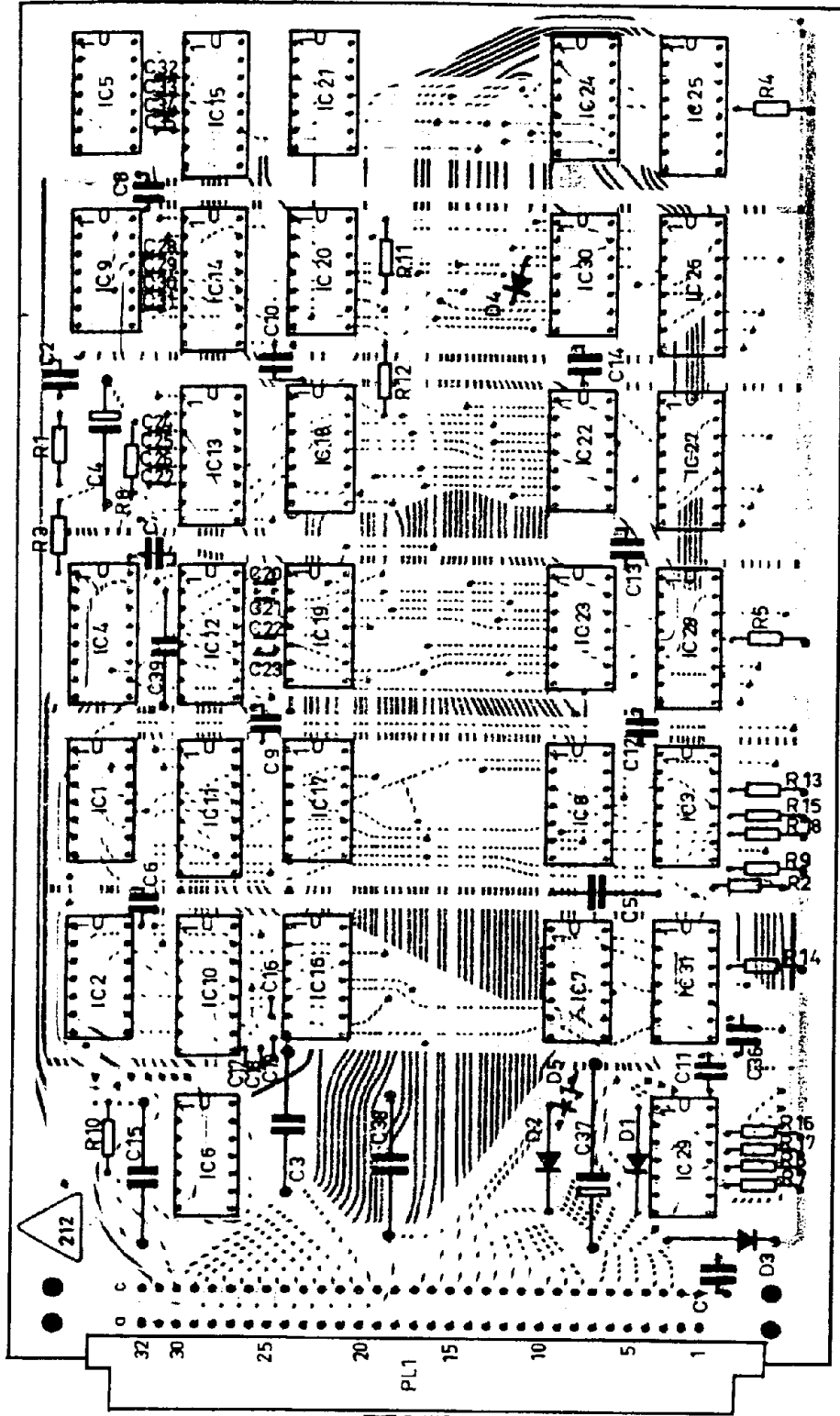
TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

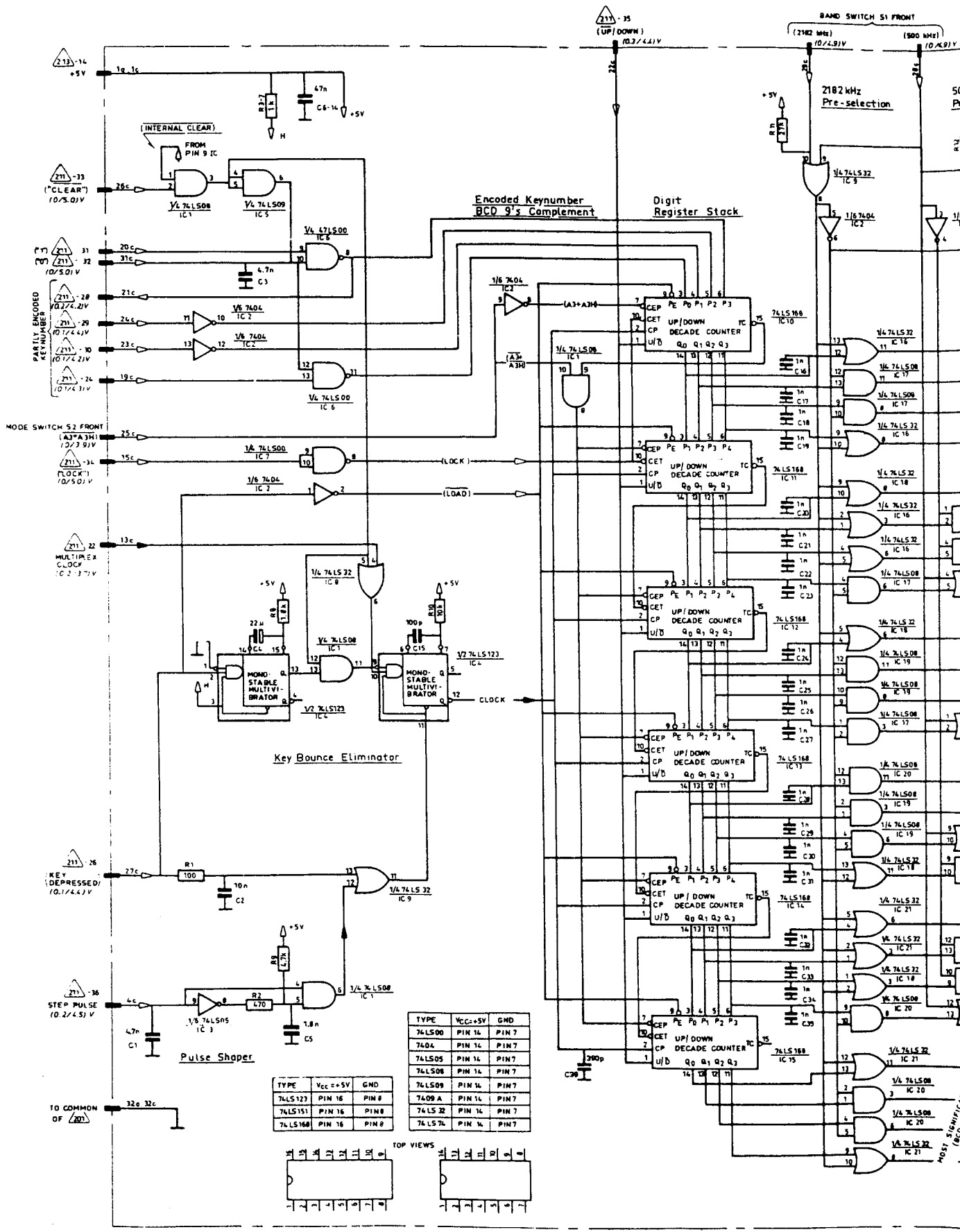
TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

TYPE	MC337	DRD
SIZE	18	18

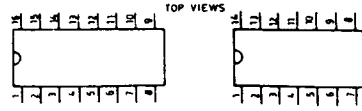


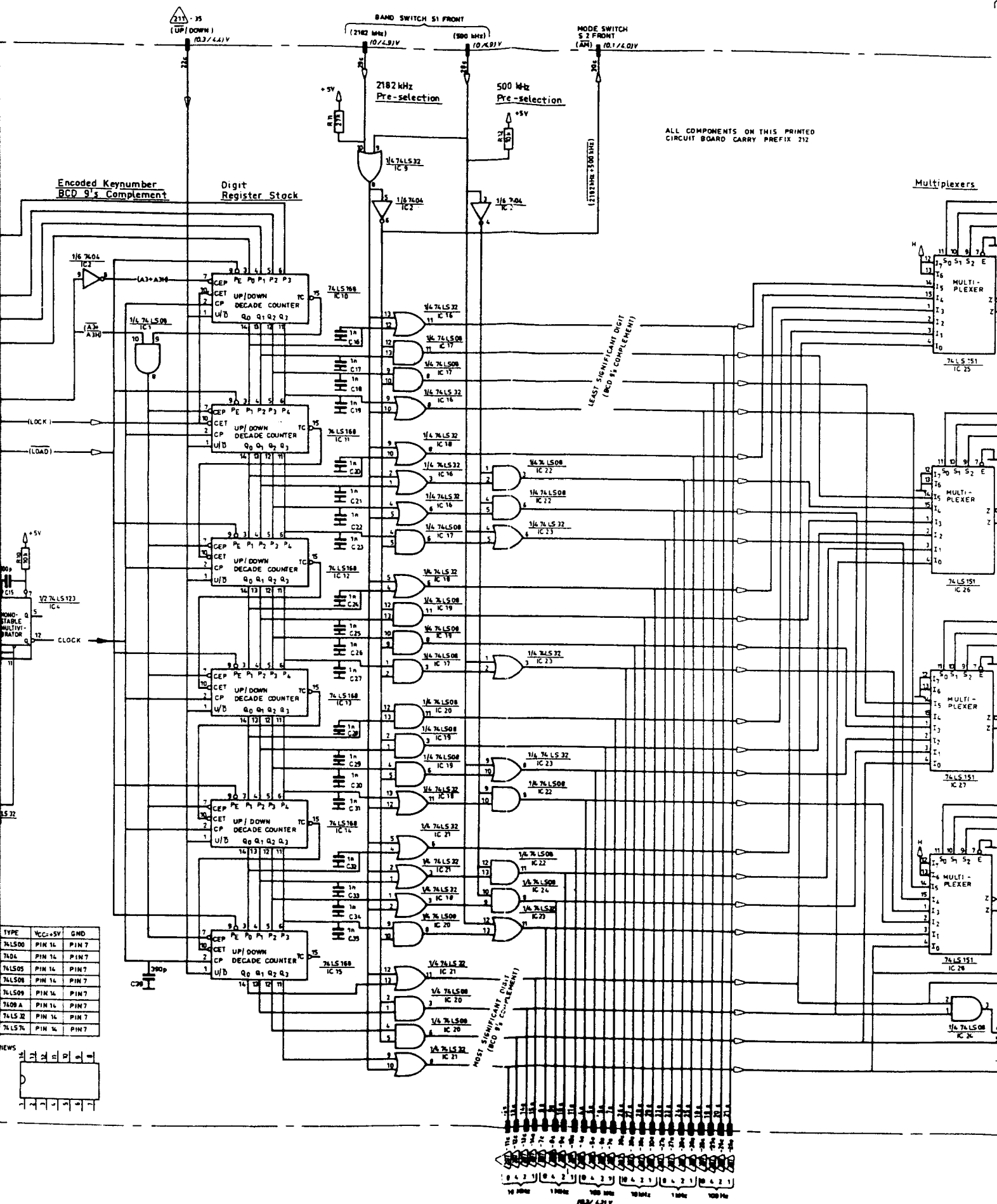
PRINTED CIRCUIT BOARD **212**  
 VIEWED FROM COMPONENT SIDE



TYPE	V <sub>CC</sub> = +5V	GND
74LS123	PIN 16	PIN 8
74LS151	PIN 16	PIN 8
74LS168	PIN 16	PIN 8

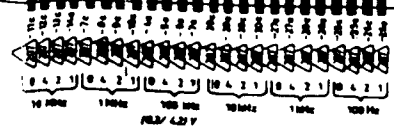
TYPE	V <sub>CC</sub> = +5V	GND
74LS00	PIN 14	PIN 7
7404	PIN 14	PIN 7
74LS05	PIN 14	PIN 7
74LS06	PIN 14	PIN 7
74LS09	PIN 14	PIN 7
74LS32	PIN 14	PIN 7
74LS74	PIN 14	PIN 7

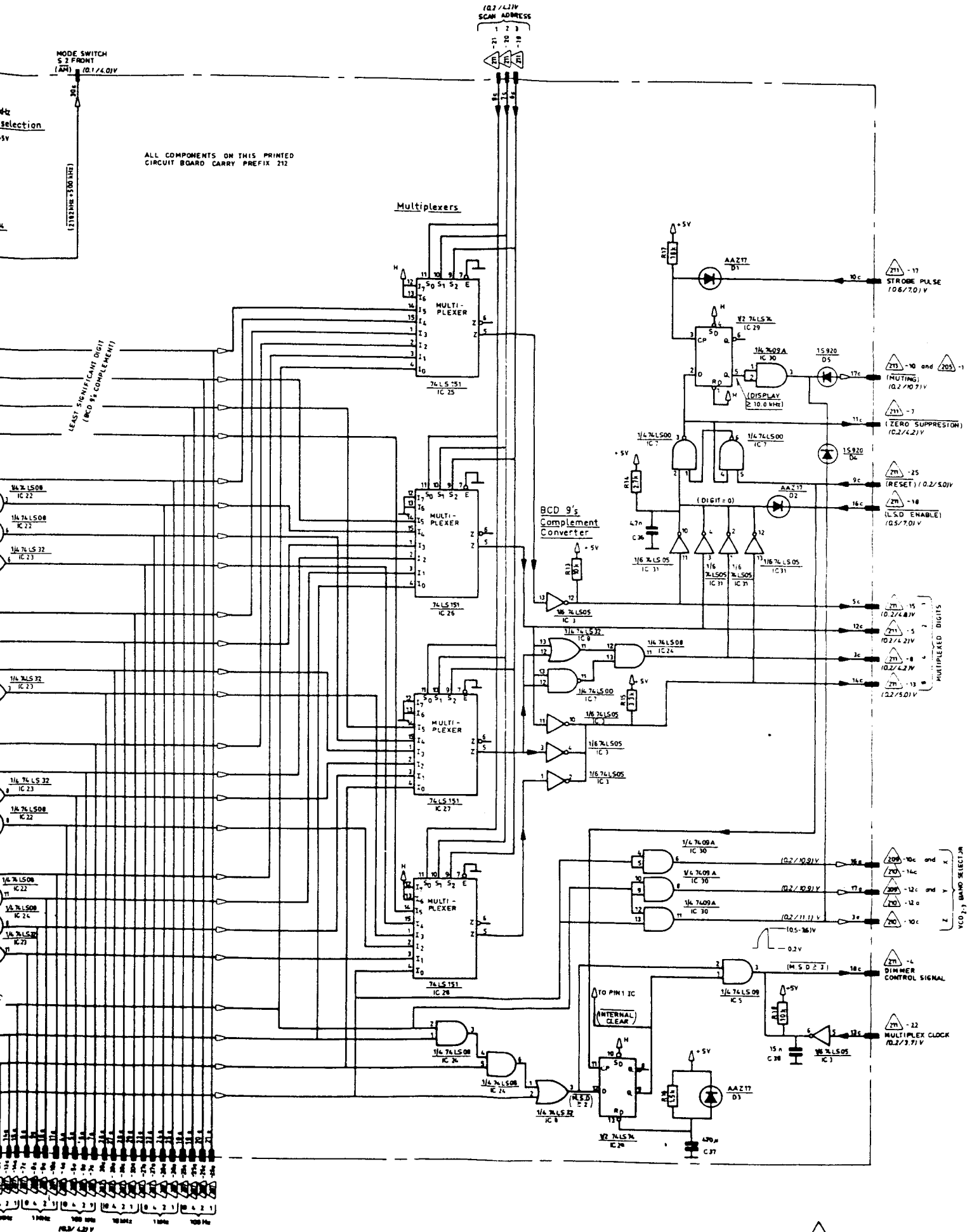




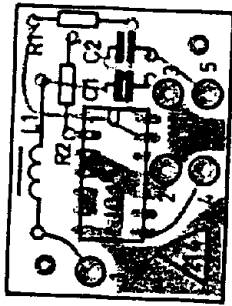
ALL COMPONENTS ON THIS PRINTED  
CIRCUIT BOARD CARRY PREFIX 212

TYPE	VCC+5V	GND
74LS00	PIN 16	PIN 7
74LS04	PIN 16	PIN 7
74LS05	PIN 16	PIN 7
74LS08	PIN 16	PIN 7
74LS09	PIN 16	PIN 7
74LS09A	PIN 16	PIN 7
74LS32	PIN 16	PIN 7
74LS74	PIN 16	PIN 7






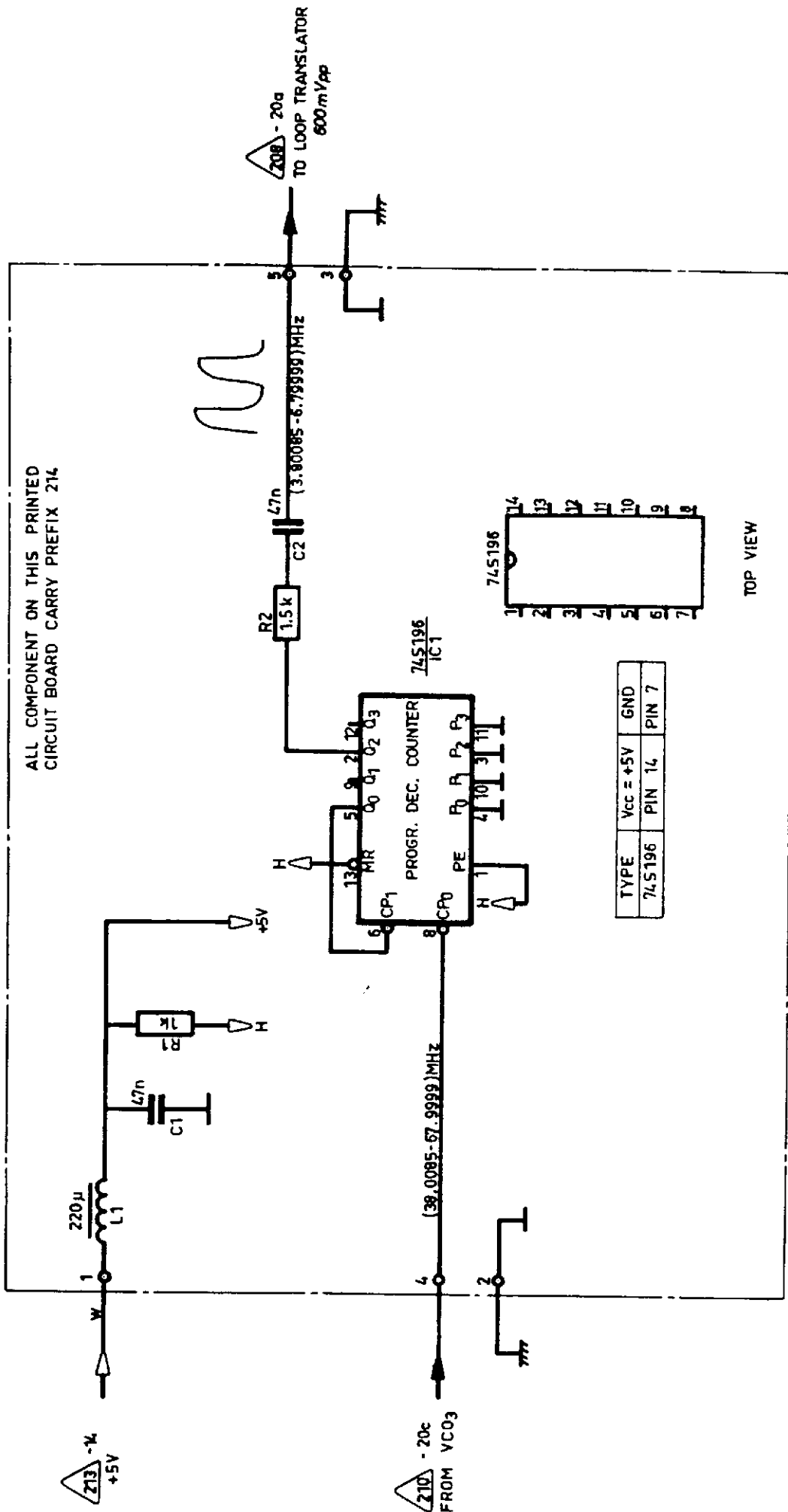
# SYNTHESIZER CONTROL

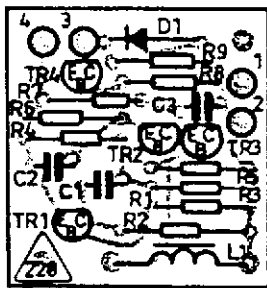


995 226 72

PRINTED CIRCUIT BOARD  214  
VIEWED FROM COMPONENT SIDE

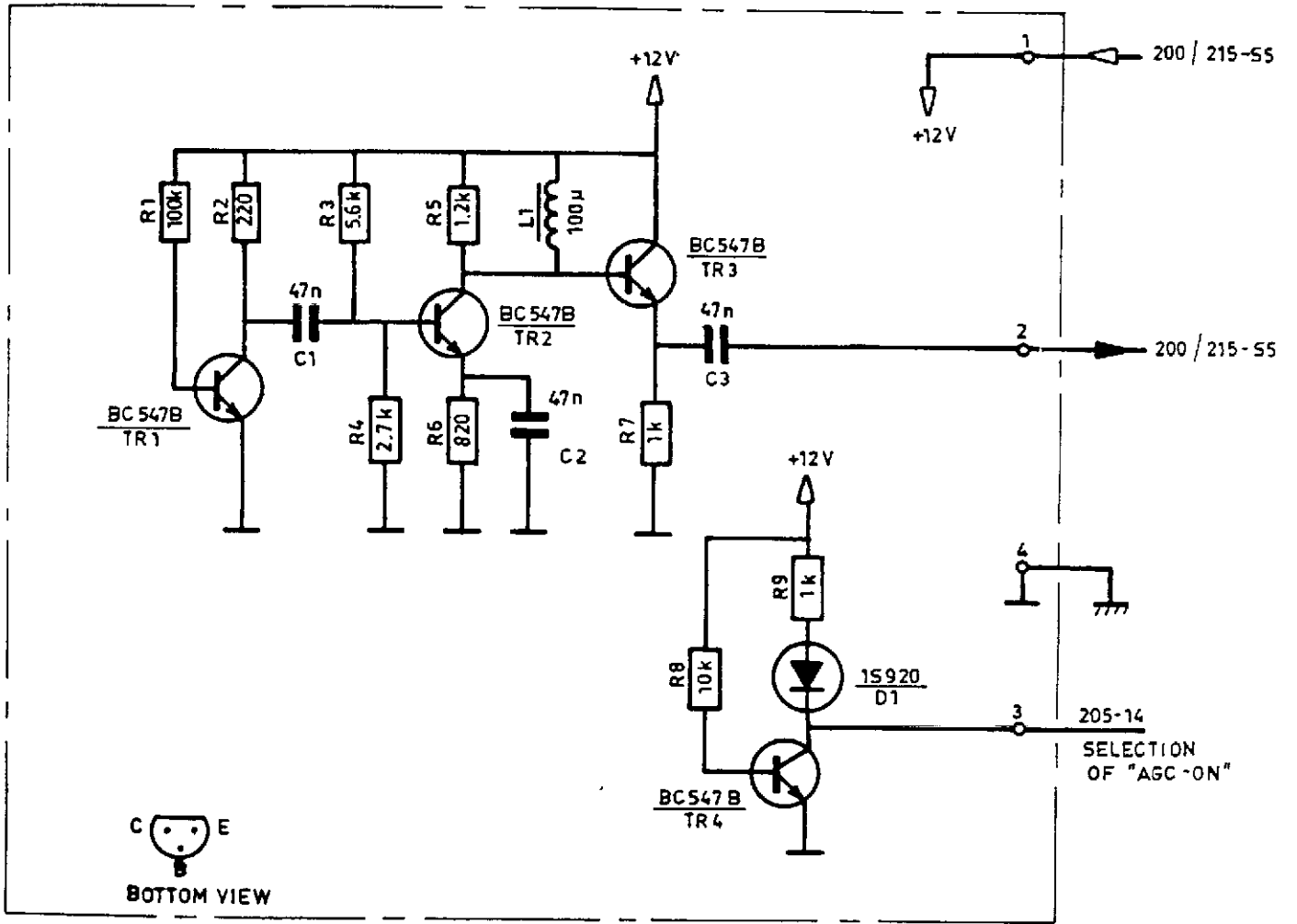






995 227 31

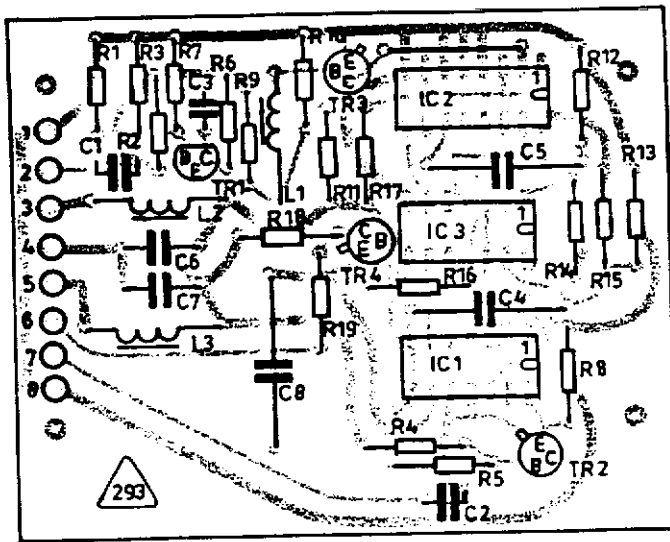
PRINTED CIRCUIT BOARD   
 VIEWED FROM COMPONENT SIDE




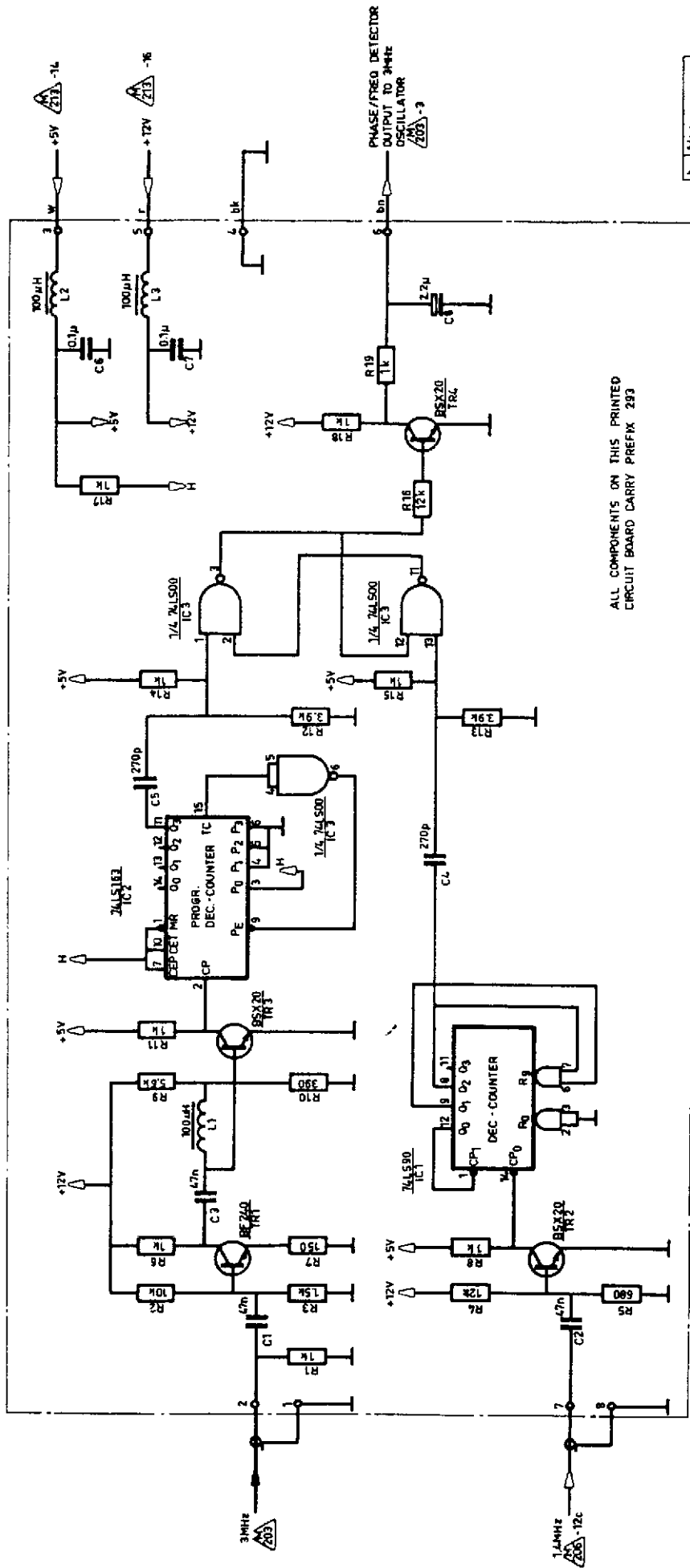
995 227 5 ①

NOISE GENERATOR





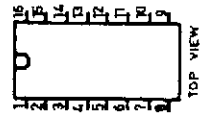
PRINTED CIRCUIT BOARD   
 VIEWED FROM COMPONENT SIDE



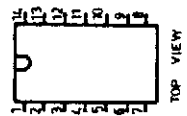
ALL COMPONENTS ON THIS PRINTED  
CIRCUIT BOARD CARRY PREFIX 293

b	blue
bl	beige
blk	black
brn	brown
g	green
or	orange
p	pink
r	red
s	slate
tt	transparent
v	violet
w	white
y	yellow

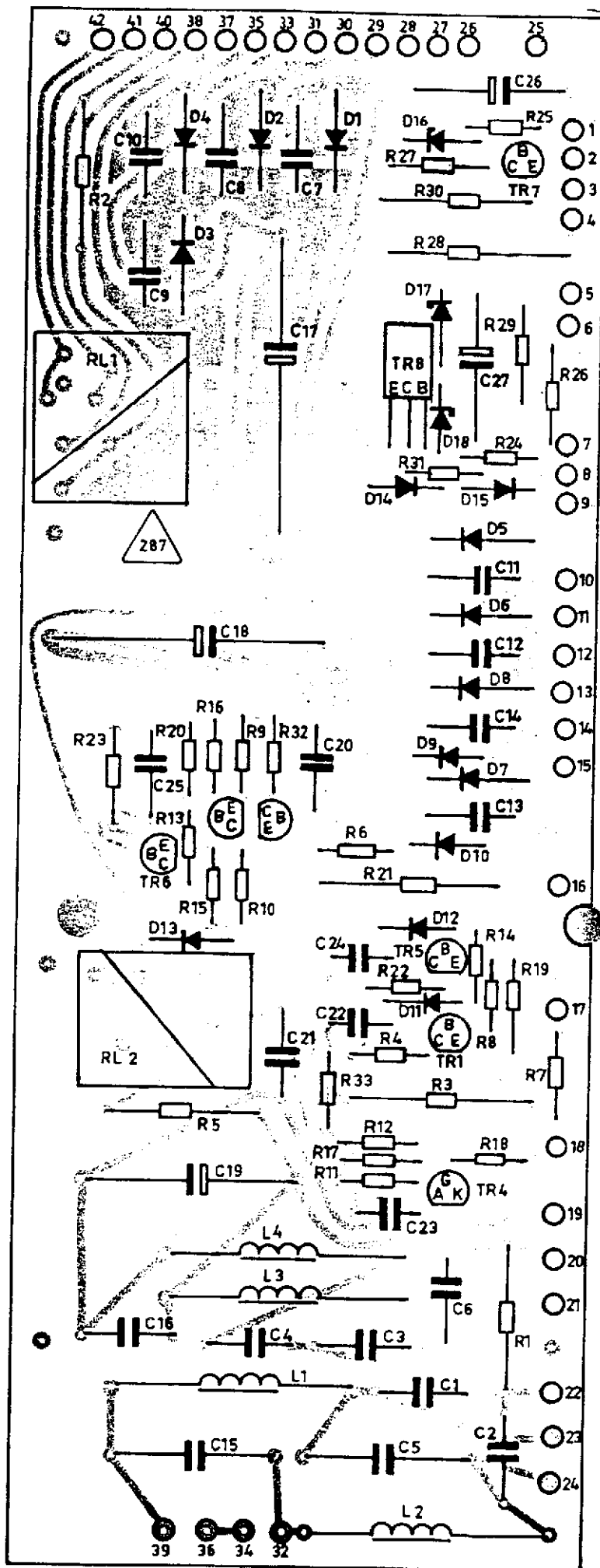
TYPE	Vcc = +5V	GND
74LS163	PIN 16	PIN 8




TYPE	Vcc = +5V	GND
74LS00	PIN 14	PIN 7
74LS90	PIN 5	PIN 10



BOTTOM VIEWS



PRINTED CIRCUIT BOARD   
 VIEWED FROM COMPONENT SIDE

BOTTOM VIEW  
S AND CASE



2N 3020  
2N 625L

TOP VIEW



ECB  
BD 135-10  
BD 234-10

BOTTOM VIEW



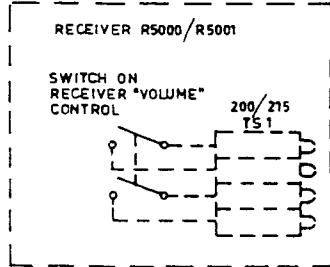
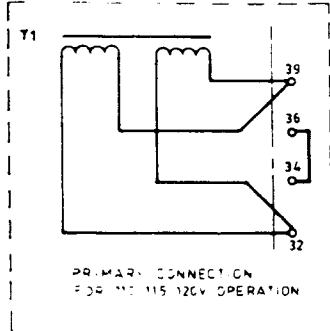
BC 137  
BC 557  
BC 547

BOTTOM VIEW

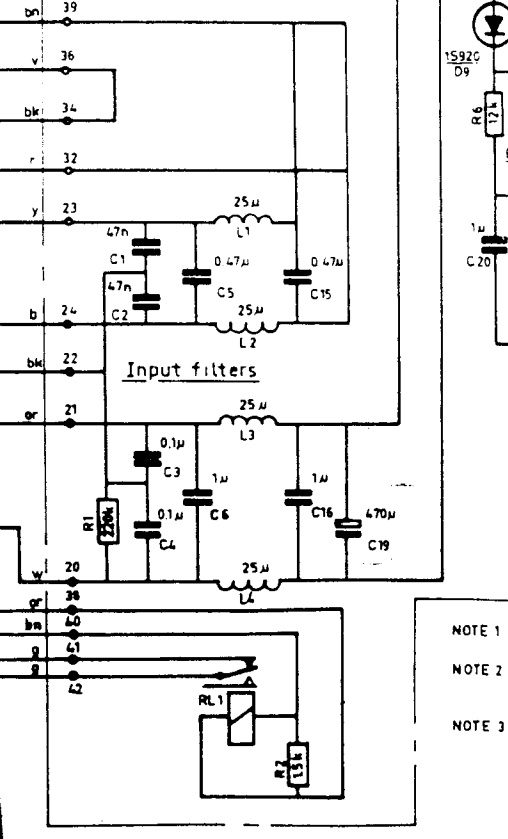
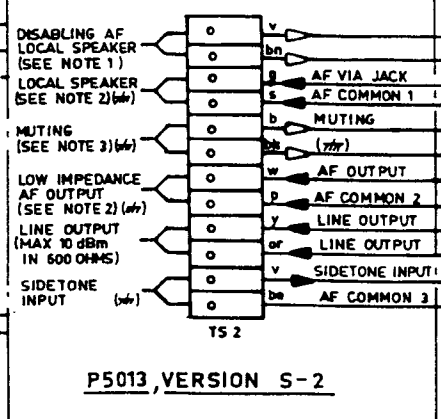
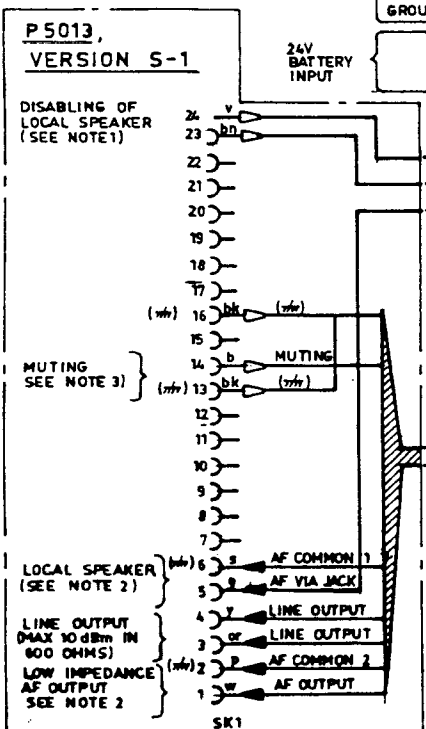
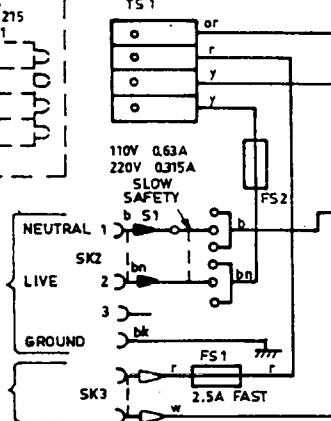
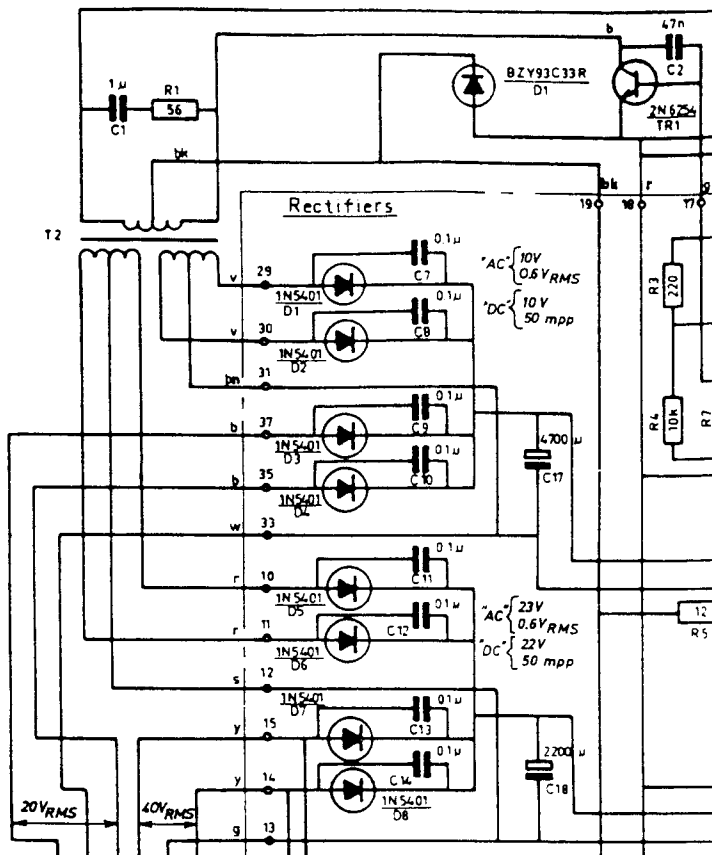


2N 6027

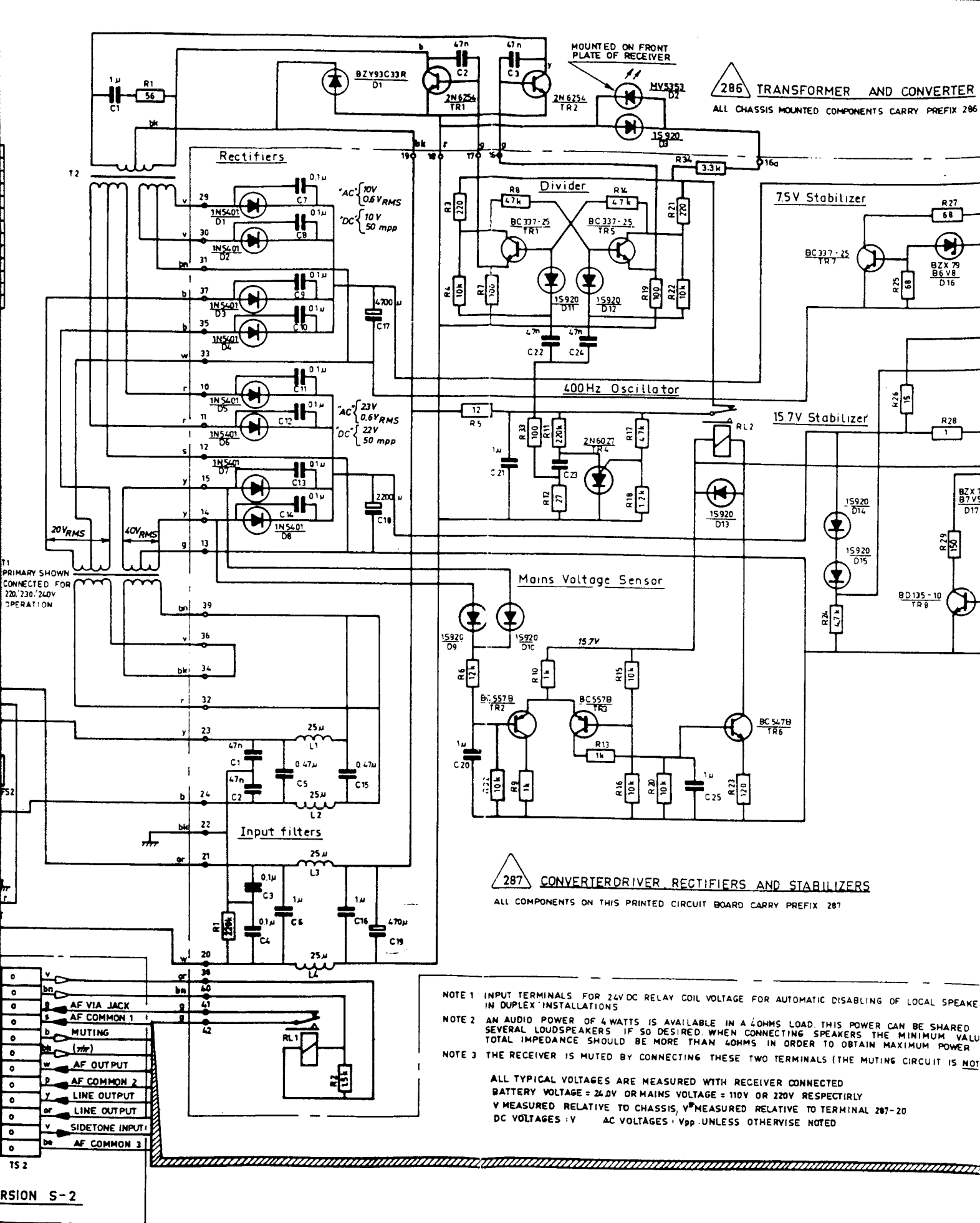
be	beige
bk	black
b	blue
bn	brown
g	green
or	orange
p	pink
r	red
s	slate
t	transparent
v	violet
w	white
y	yellow



T1 PRIMARY SHOWN CONNECTED FOR 220/230/240V OPERATION



NOTE 1  
NOTE 2  
NOTE 3

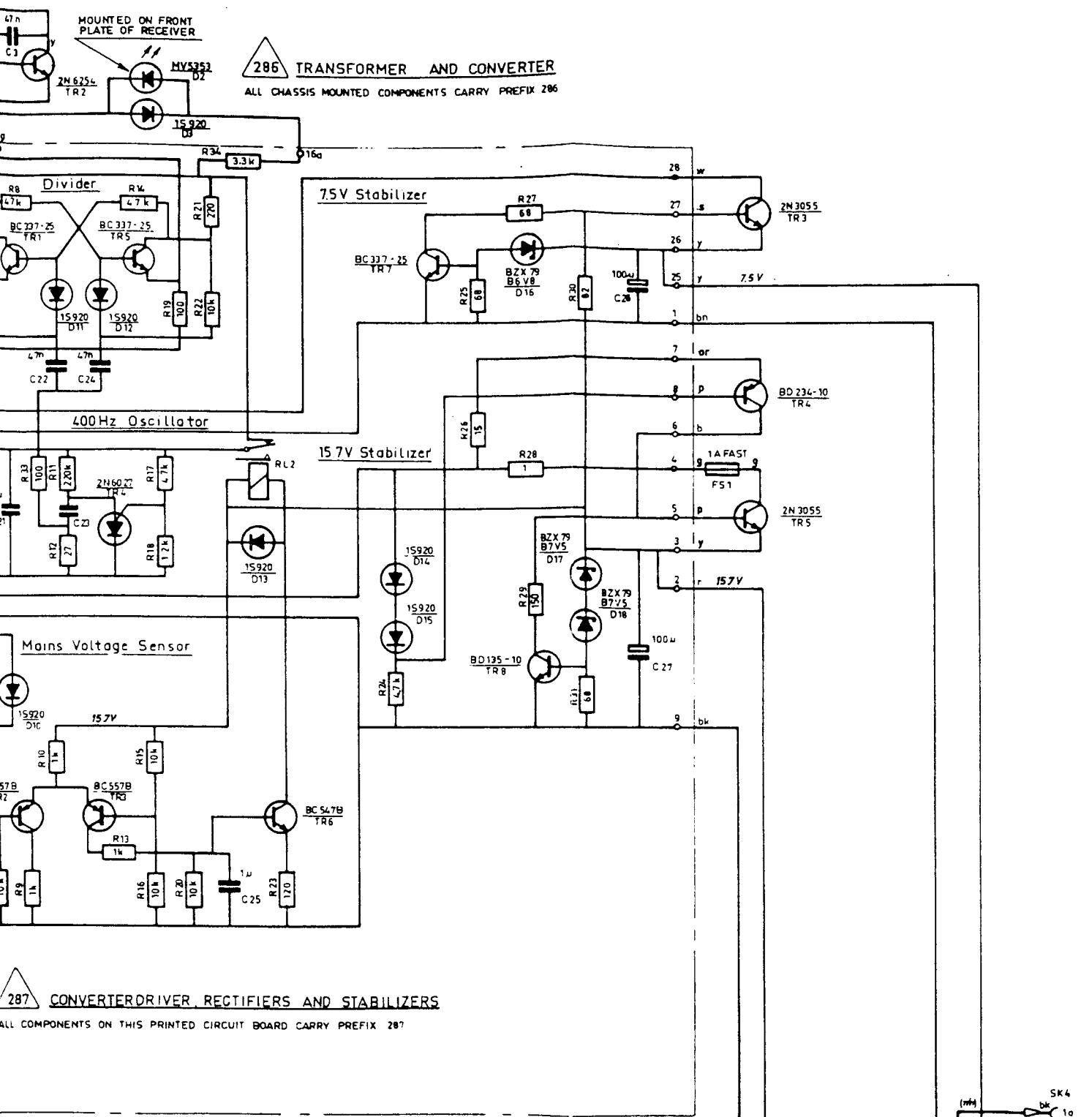


RSION S-2

PRIN

P5013 DC AC POWER PACK  
VERSION S1 AND S2





**286 TRANSFORMER AND CONVERTER**

ALL CHASSIS MOUNTED COMPONENTS CARRY PREFIX 286

**287 CONVERTER DRIVER RECTIFIERS AND STABILIZERS**

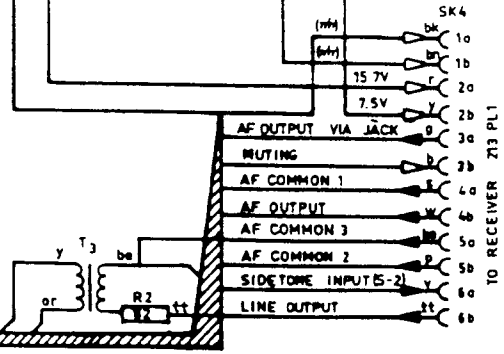
ALL COMPONENTS ON THIS PRINTED CIRCUIT BOARD CARRY PREFIX 287

POT TERMINALS FOR 24V DC RELAY COIL VOLTAGE FOR AUTOMATIC DISABLING OF LOCAL SPEAKER DUXPLX INSTALLATIONS

AN AUDIO POWER OF 4 WATTS IS AVAILABLE IN A 4 OHMS LOAD. THIS POWER CAN BE SHARED BETWEEN SEVERAL LOUDSPEAKERS IF SO DESIRED. WHEN CONNECTING SPEAKERS THE MINIMUM VALUE OF THE TOTAL IMPEDANCE SHOULD BE MORE THAN 4 OHMS IN ORDER TO OBTAIN MAXIMUM POWER OUTPUT.

THE RECEIVER IS MUTED BY CONNECTING THESE TWO TERMINALS (THE MUTING CIRCUIT IS NOT EARTH FREE)

ALL TYPICAL VOLTAGES ARE MEASURED WITH RECEIVER CONNECTED  
 BATTERY VOLTAGE = 24.0V OR MAINS VOLTAGE = 110V OR 220V RESPECTIVELY  
 V<sub>1</sub> MEASURED RELATIVE TO CHASSIS, V<sub>2</sub> MEASURED RELATIVE TO TERMINAL 287-20  
 DC VOLTAGES : V AC VOLTAGES : V<sub>rms</sub> UNLESS OTHERWISE NOTED



PRINTED CIRCUIT BOARD **287**  
 WIRING DIAGRAM **288**

P5013 DC AC POWER PACK  
 VERSION S1 AND S2