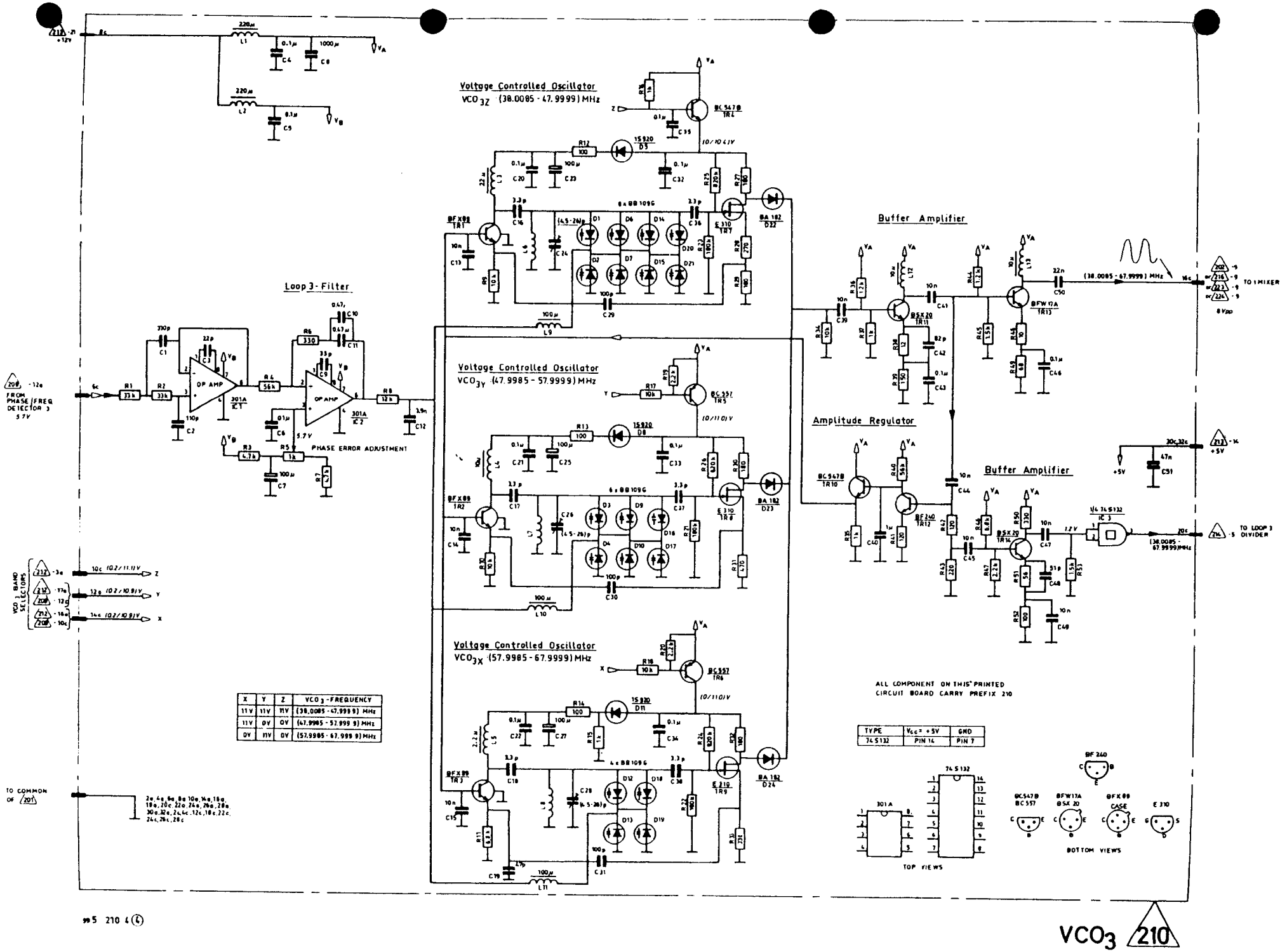
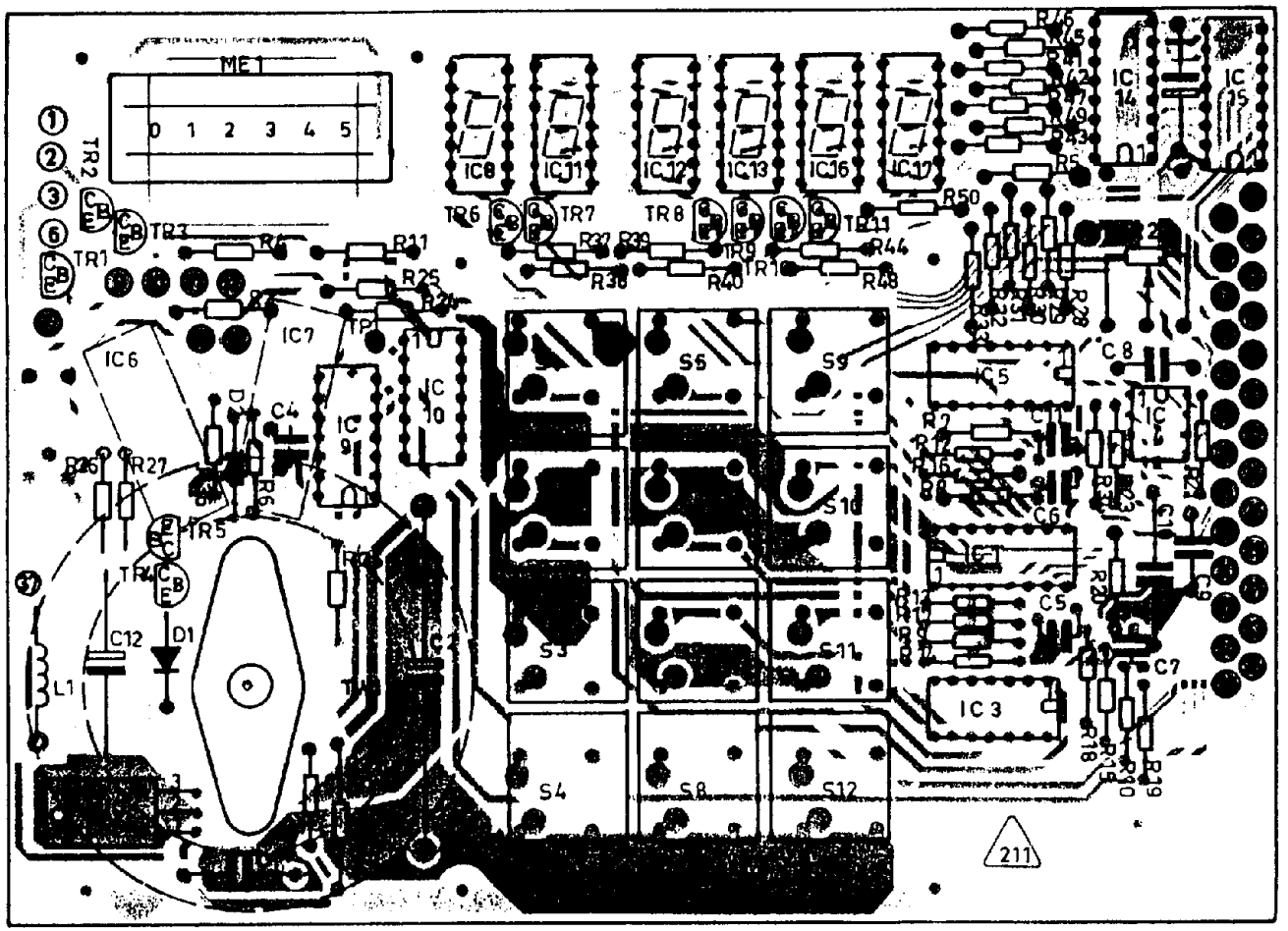


X	Y	Z	VCO3 - FREQUENCY
11 V	11 V	11 V	(38.0085 - 47.999 9) MHz
11 V	0 V	0 V	(47.9985 - 57.999 9) MHz
0 V	11 V	0 V	(57.9985 - 67.999 9) MHz

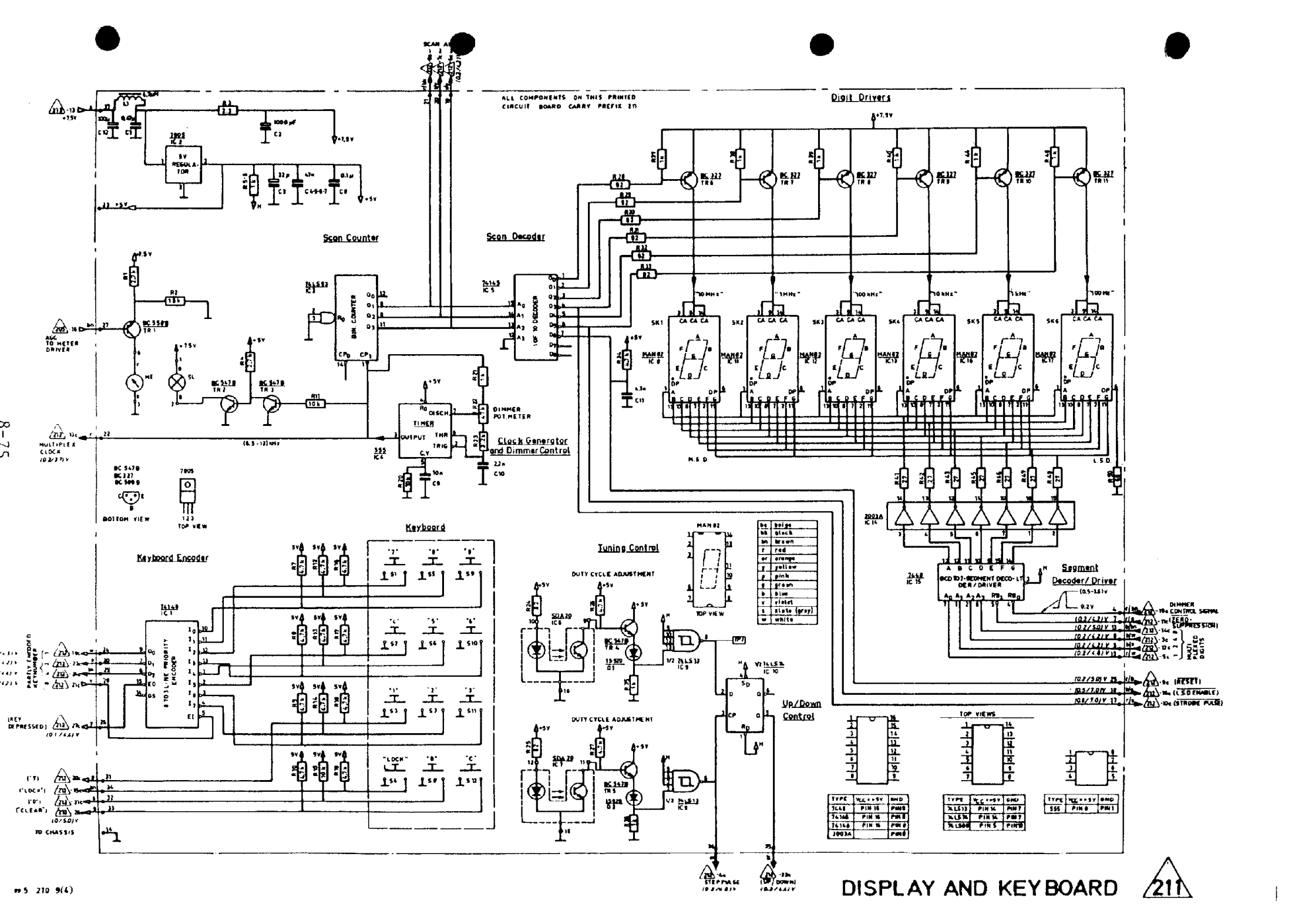
TYPE	V_{CC} = +5V	GND
74 S 132	PIN 14	PIN 7



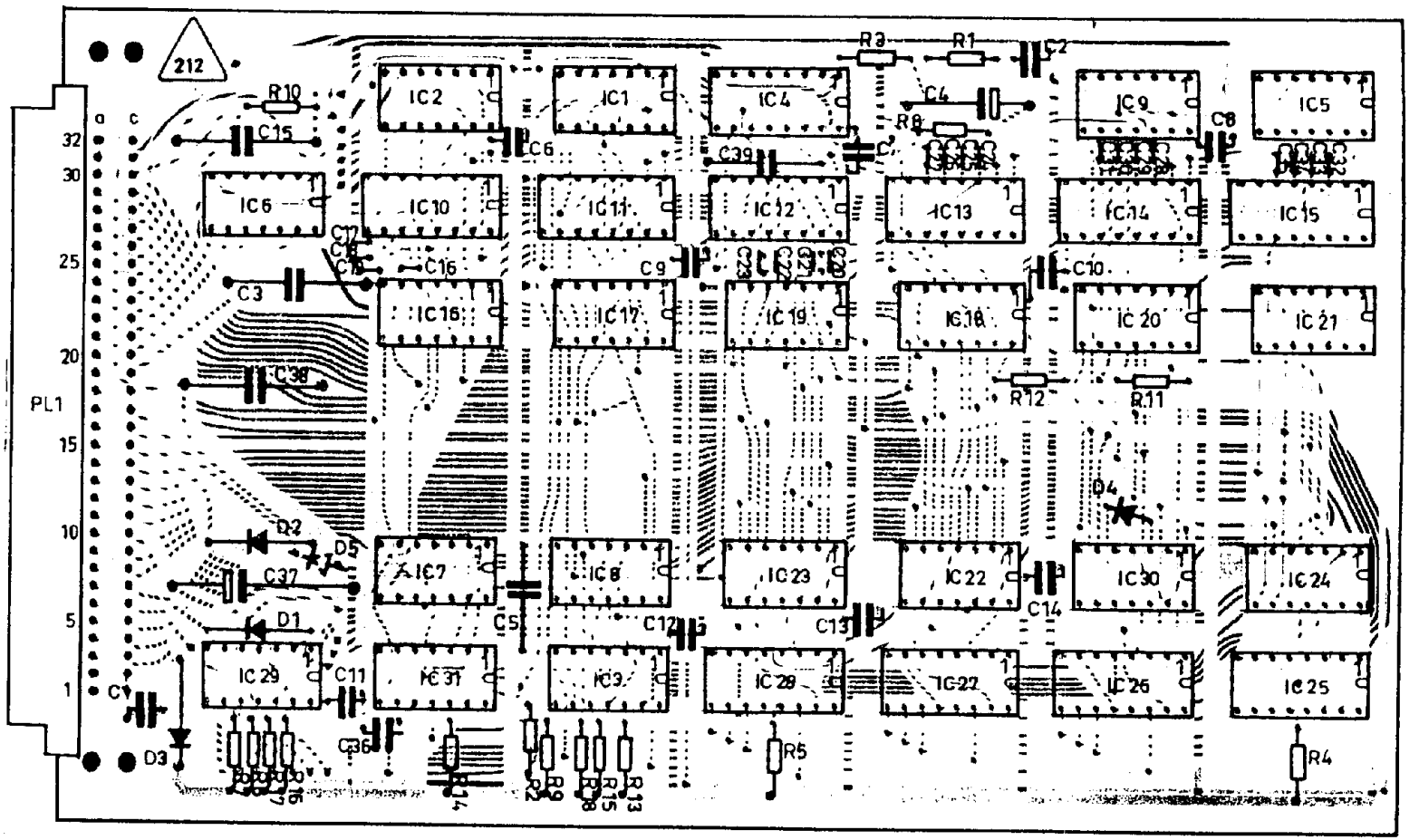
PRINTED CIRCUIT BOARD 211

VIEWED FROM COMPONENT SIDE

995 210 81

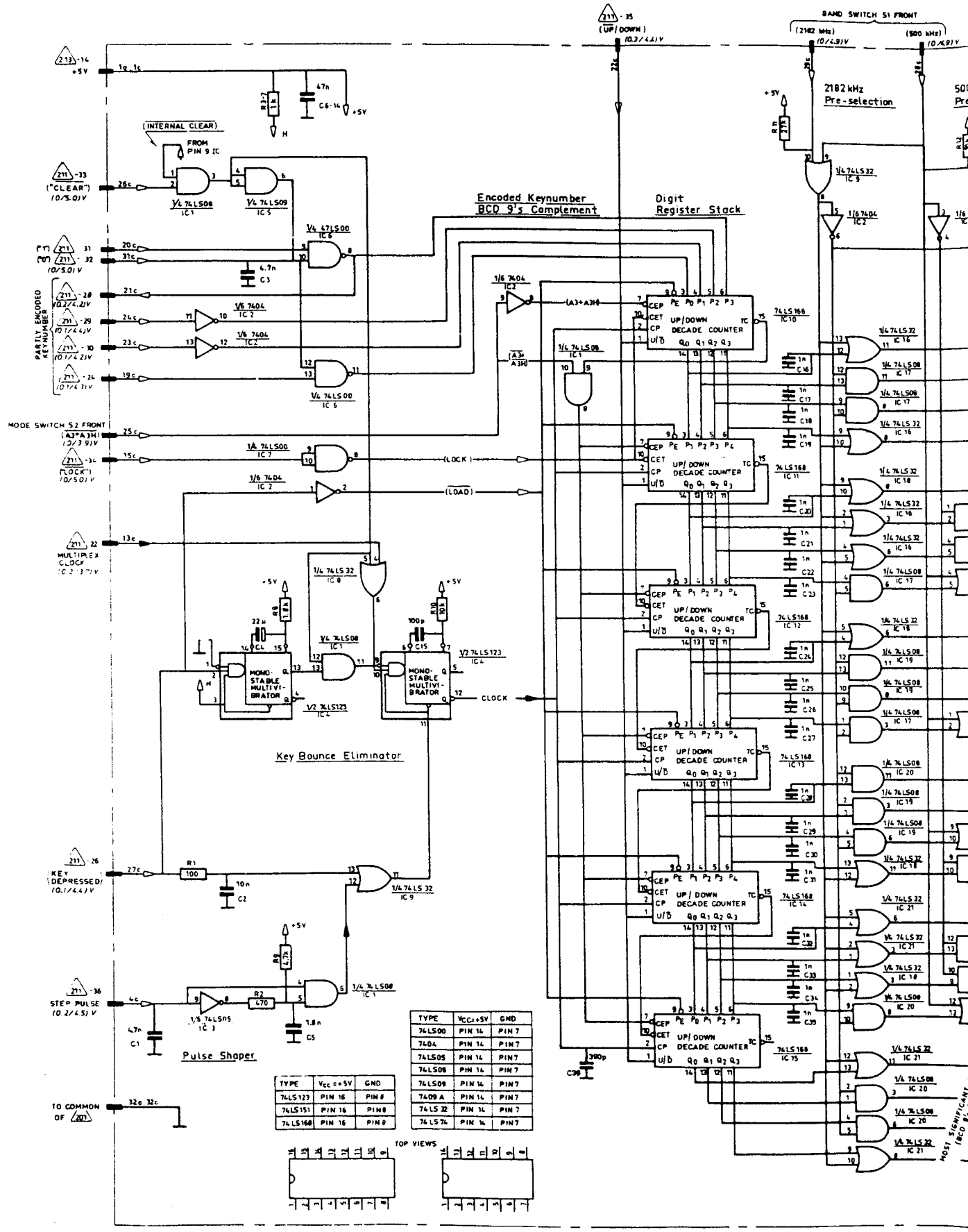


DISPLAY AND KEYBOARD 211



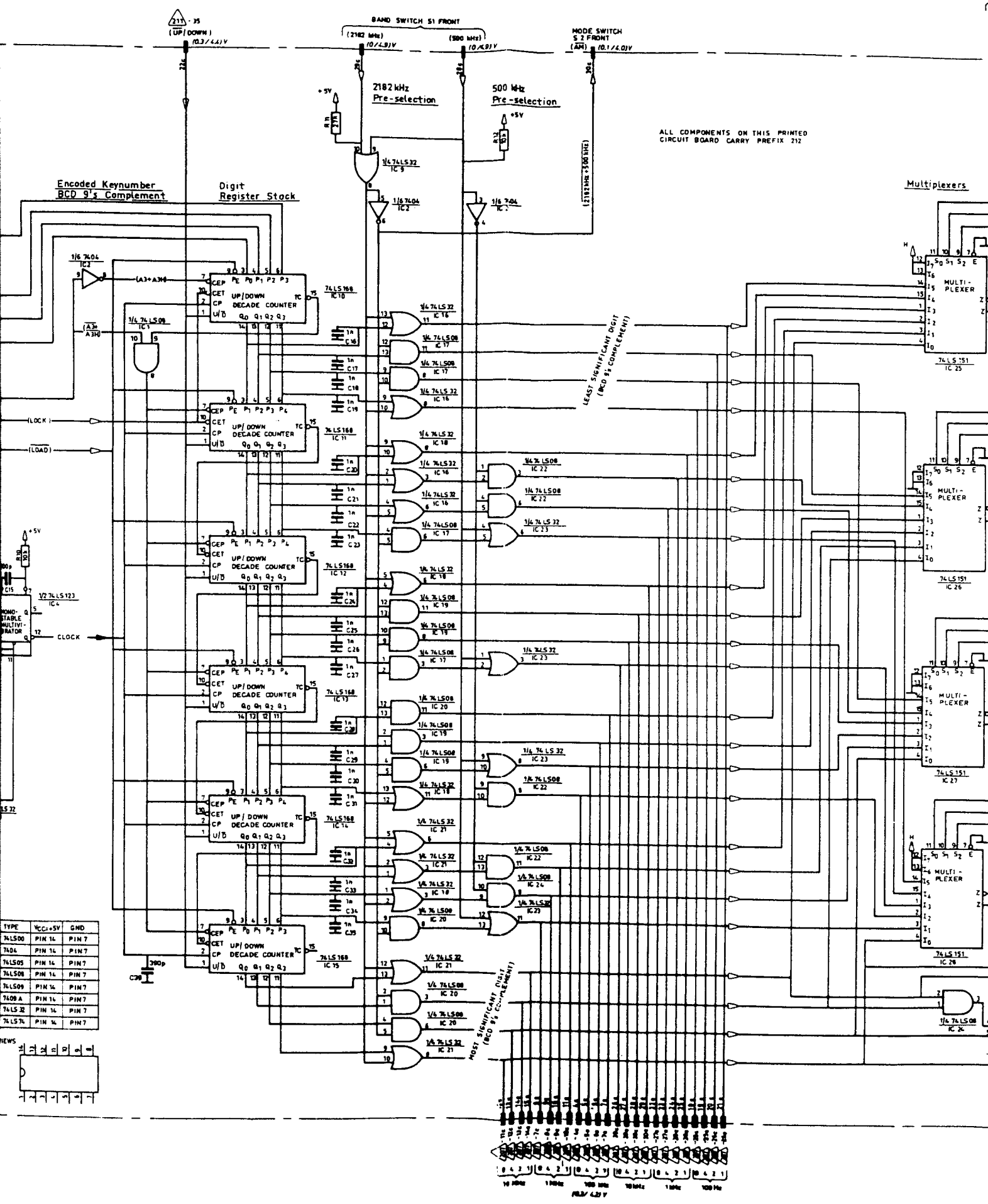
995 211 32

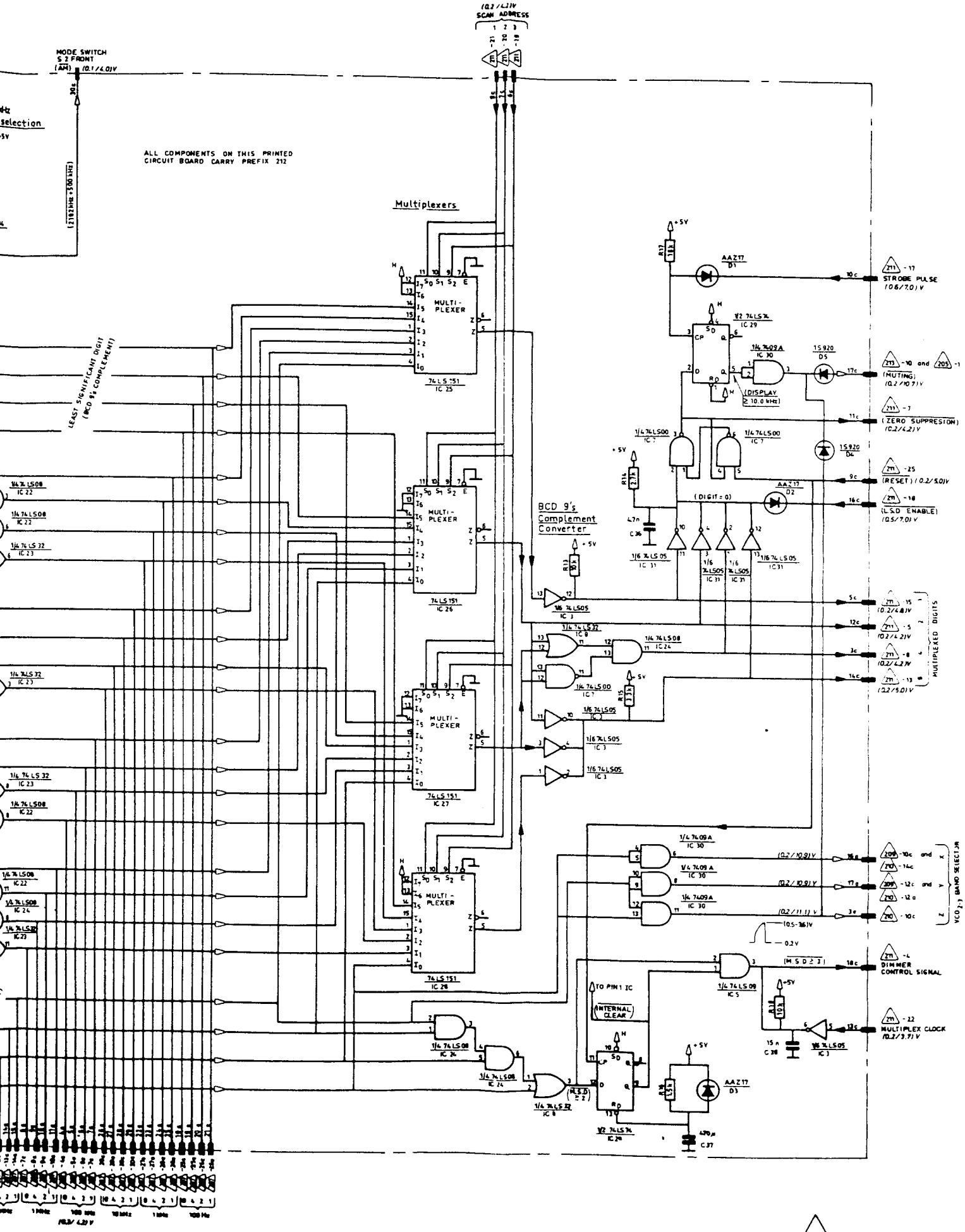
PRINTED CIRCUIT BOARD 212
VIEWED FROM COMPONENT SIDE

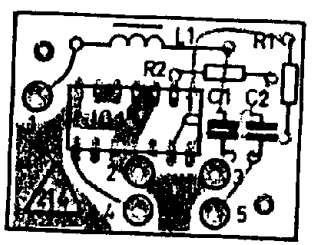


TYPE	V_{CC}=+5V	GND
74LS123	PIN 16	PIN 8
74LS151	PIN 16	PIN 8
74LS168	PIN 16	PIN 8

TYPE	V_{CC}=+5V	GND
74LS00	PIN 14	PIN 7
7404	PIN 14	PIN 7
74LS05	PIN 14	PIN 7
74LS08	PIN 14	PIN 7
74LS09	PIN 14	PIN 7
7409 A	PIN 14	PIN 7
74LS 32	PIN 14	PIN 7
74LS 74	PIN 14	PIN 7

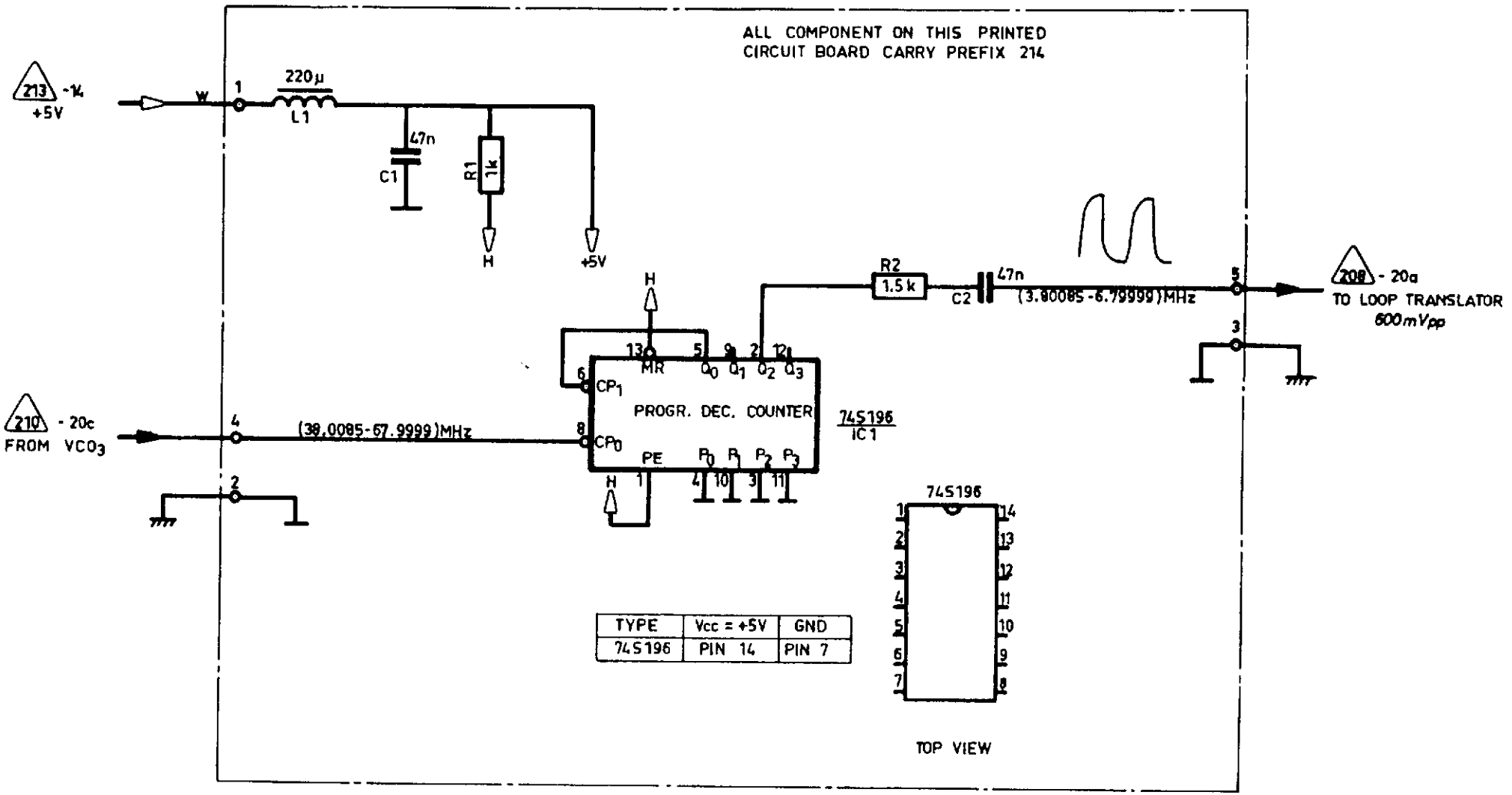

BAND SWITCH S1 FRONT
(2182 kHz)
(500 kHz)
MODE SWITCH S 2 FRONT
(AM)
2182 kHz Pre-selection
500 kHz Pre-selection
ALL COMPONENTS ON THIS PRINTED CIRCUIT BOARD CARRY PREFIX 212
Encoded Keynumber BCD 9's Complement
Digit Register Stack
Multiplexers
LEAST SIGNIFICANT DIGIT (BCD 9's COMPLEMENT)
MOST SIGNIFICANT DIGIT (BCD 9's COMPLEMENT)
UP/DOWN DECADE COUNTER
MULTI-PLEXER
(LOCK)
(LOAD)
CLOCK
MONO-STABLE MULTIVI-BRATOR
TYPE
VCC=+5V
GND
74LS00 PIN 14 PIN 7
7404 PIN 14 PIN 7
74LS05 PIN 14 PIN 7
74LS08 PIN 14 PIN 7
74LS09 PIN 14 PIN 7
7409 A PIN 14 PIN 7
74LS 32 PIN 14 PIN 7
74LS74 PIN 14 PIN 7


SCAN ADDRESS
MODE SWITCH S 2 FRONT
ALL COMPONENTS ON THIS PRINTED CIRCUIT BOARD CARRY PREFIX 212
Multiplexers
MULTI-PLEXER
74 LS 151
IC 25
IC 26
IC 27
IC 28
LEAST SIGNIFICANT DIGIT (BCD 9's COMPLEMENT)
BCD 9's Complement Converter
(DIGIT = 0)
(DISPLAY ≥ 10.0 kHz)
STROBE PULSE
(MUTING)
(ZERO SUPPRESSION)
(RESET)
(LSD ENABLE)
MULTIPLEXED DIGITS
VCO 1, 2, 3 BAND SELECTION
DIMMER CONTROL SIGNAL
MULTIPLEX CLOCK
TO PIN 1 IC
(INTERNAL CLEAR)
SYNTHESIZER CONTROL
212

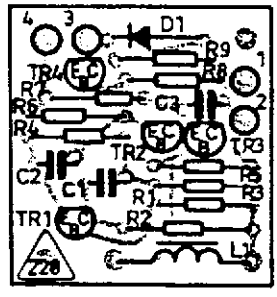


995 226 72

PRINTED CIRCUIT BOARD 214
VIEWED FROM COMPONENT SIDE

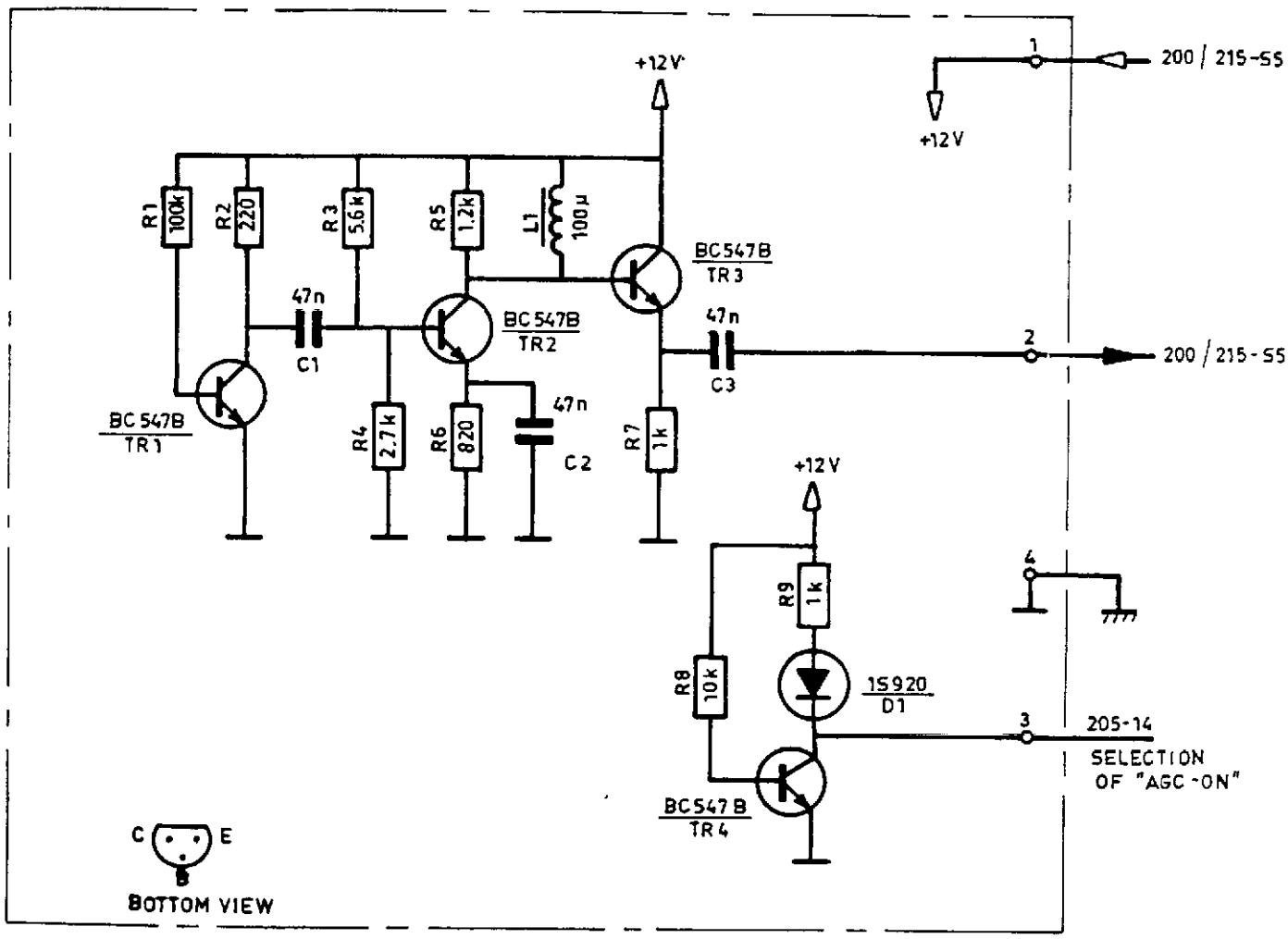


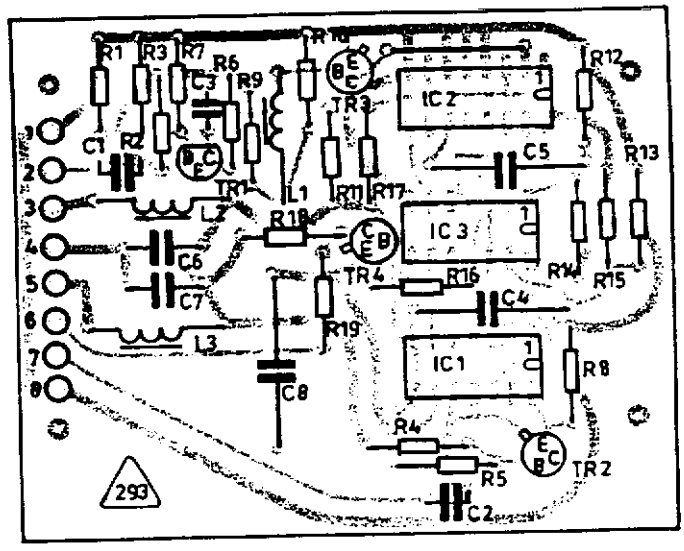
LOOP 3 - DIVIDER 214



PRINTED CIRCUIT BOARD (228)
VIEWED FROM COMPONENT SIDE

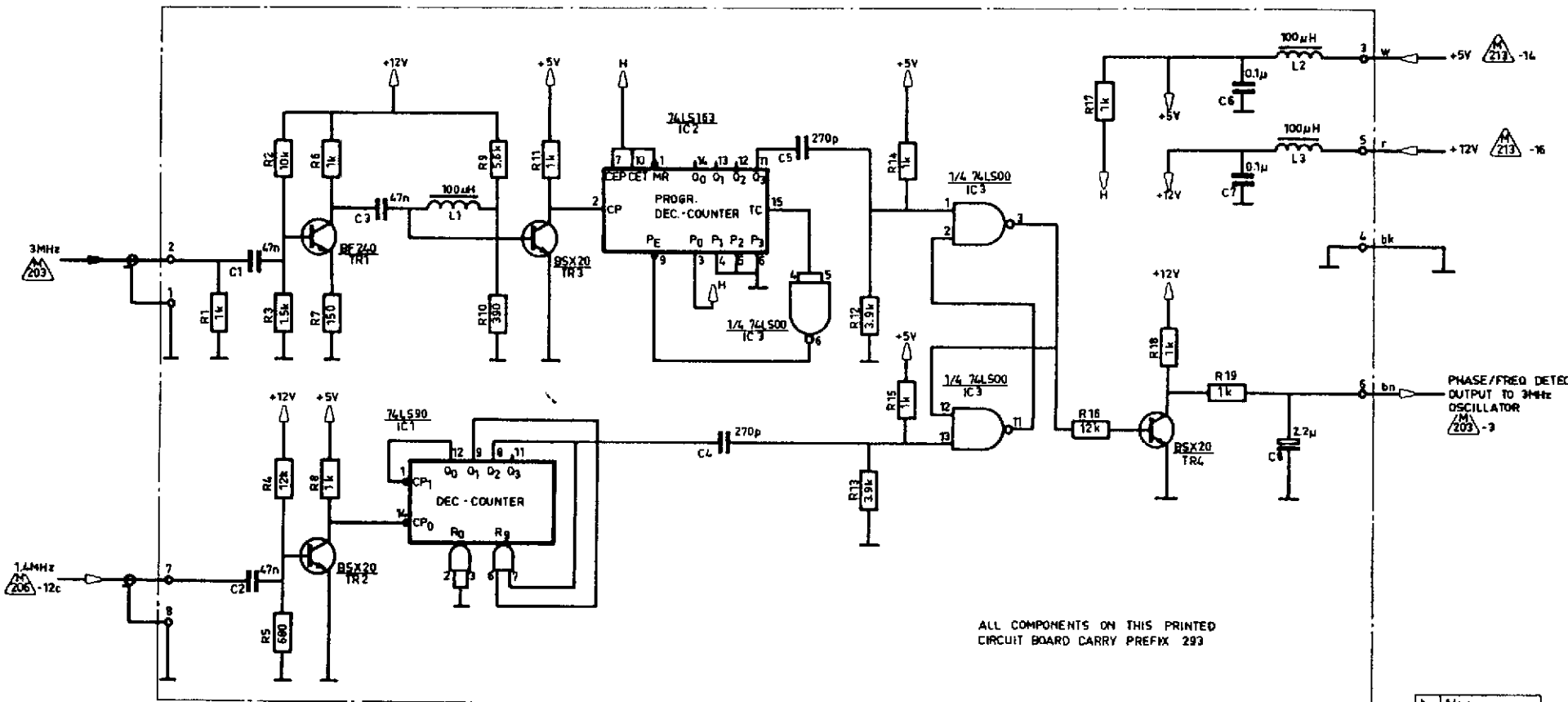
995 227 31


+12V
1
200 / 215-55
+12V
R1 100k
R2 220
R3 5.6k
R5 1.2k
L1 100µ
BC547B TR3
47n
C1
BC547B TR2
47n
C3
2
200 / 215-55
BC547B TR1
R4 2.7k
R6 820
47n
C2
R7 1k
+12V
4
R9 1k
R8 10k
1S920 D1
3
205-14
SELECTION OF "AGC-ON"
BC547B TR4
C
E
B
BOTTOM VIEW



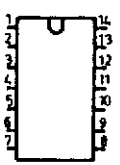
PRINTED CIRCUIT BOARD 293
VIEWED FROM COMPONENT SIDE

995 234 81



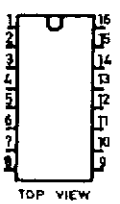
BF 240 BSX 20

BOTTOM VIEWS



TOP VIEW

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

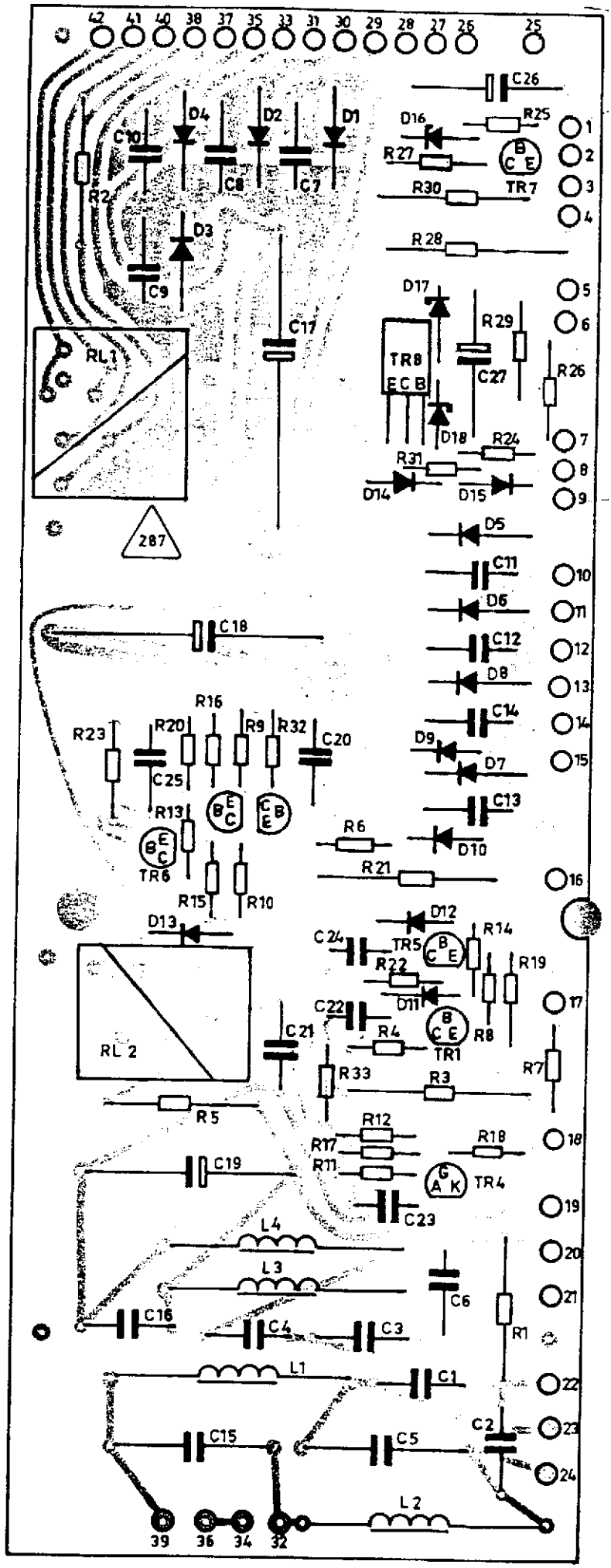


TOP VIEW

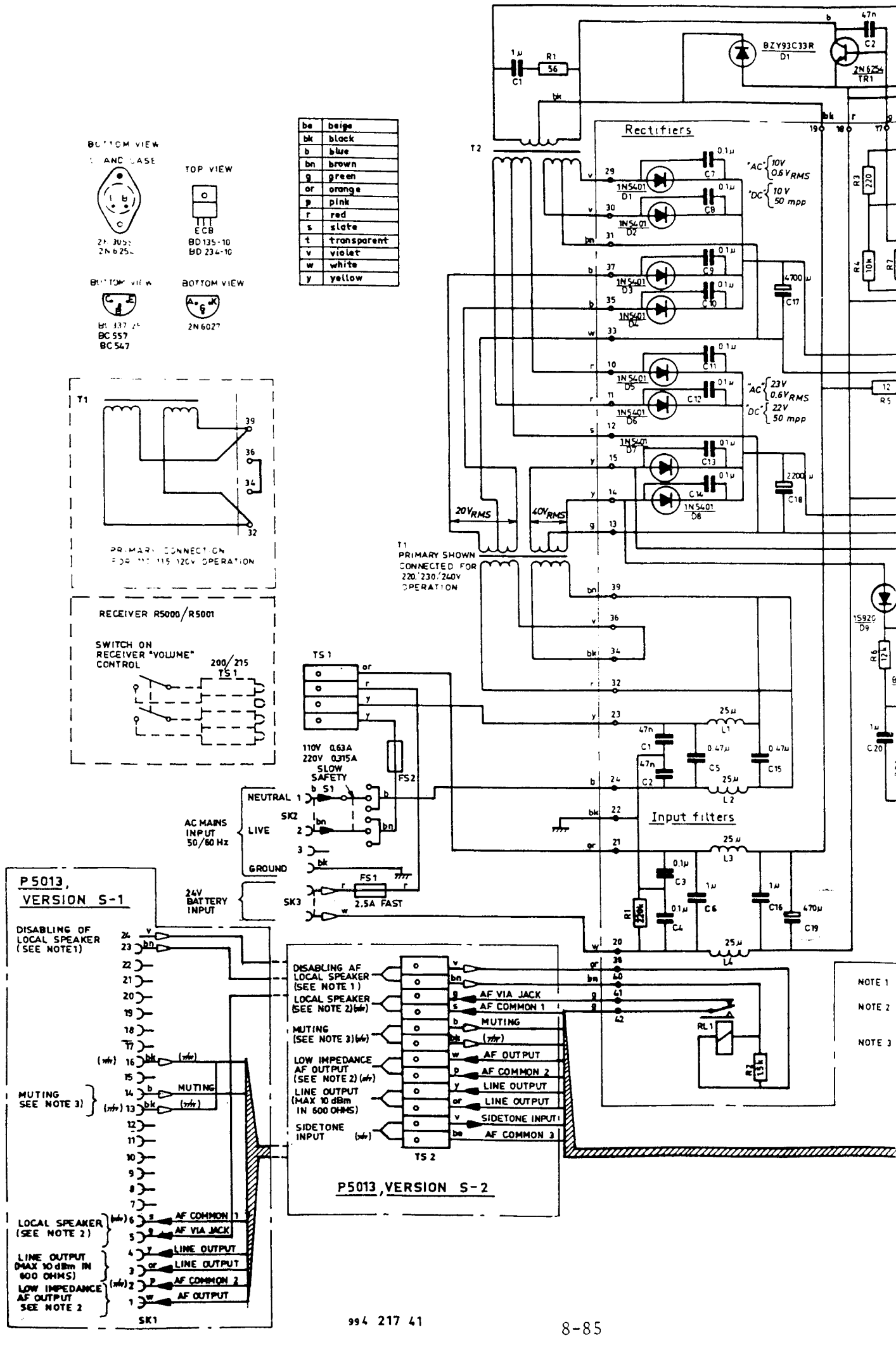
TYPE	Vcc = +5V	GND
74LS163	PIN 16	PIN 8

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

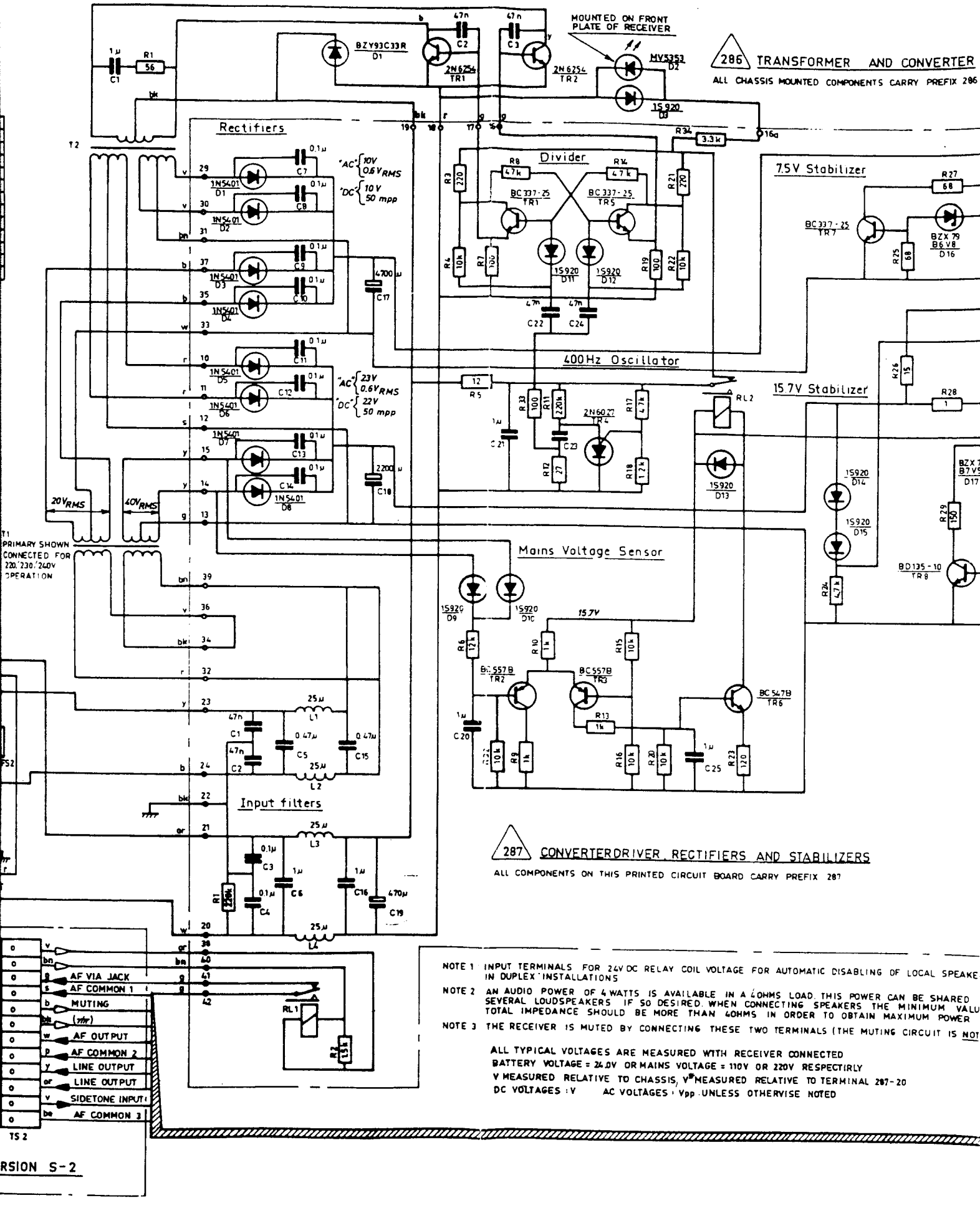
3 MHz LOCK 293



PRINTED CIRCUIT BOARD 287
VIEWED FROM COMPONENT SIDE

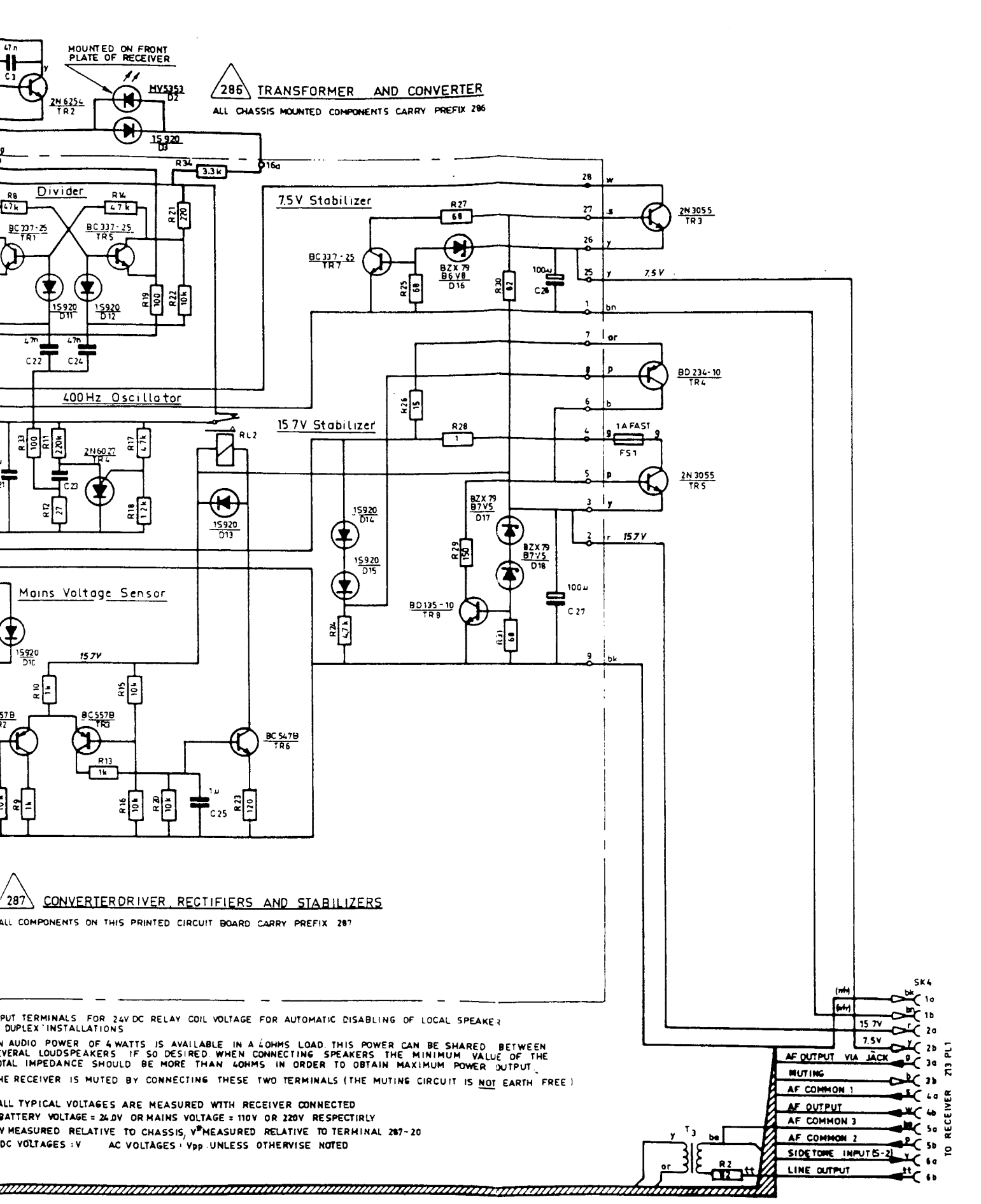


be	beige
bk	black
b	blue
bn	brown
g	green
or	orange
p	pink
r	red
s	slate
t	transparent
v	violet
w	white
y	yellow



PRIN

P5013 DC AC POWER PACK VERSION S1 AND S2



P5013 DC AC POWER PACK VERSION S1 AND S2

PRINTED CIRCUIT BOARD WIRING DIAGRAM 287/288