Bang & Olufsen

Beovision MX 7000

Type 338X/3390

10-92 3538821 Paste into Service Manual Beovision LX 5000/6000, MX 4000/6000, 3538812

Beovision MX 7000

Type 338X/3390

SERVICE MANUAL

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8-3
TYPE SURVEY

*TYPE SURVEY

MX7000	System	Colour	Stereo	Remarks	
3380	B/G/L[1)]	PAL/SECAM	A2		EU
3381	B/G/L[1)]	PAL/SECAM	A2+NICAM		EU
3383	I	PAL	NICAM		GB
3384	B/G/L[1)]	PAL/SECAM	A2		Italy
3385	B/G/L[1)]	PAL	A2		AUS
3386	B/G/L[1)]	PAL/SECAM	A2	SAT	EU
3387	B/G/L[1)]	PAL/SECAM	A2+NICAM	SAT	EU
3388	B/G/L[1)]	PAL/SECAM	A2+NICAM	SAT D2 MAC	EU
3389	I	PAL	NICAM	SAT	GB
3390	I	PAL	NICAM	SAT D2 MAC	GB
3392	B/G/L[1)]	PAL/SECAM	A2	SAT	Italy

[1)]System L: To receive VHF band 1 system L, the TV has to be fitted with a transposer part no. 1306125 (white) 1306126 (black).

8007449 Tuner & IF system B/G/L PCB.
3390452 Small bag with components to extend 8007449 to system I.
3390453 Small bag with components to modify 8007449 to system B/G/D/K.
8008062 PAL/SECAM/NTSC colour decoder PCB. TV's equiped with 8008062 (PAL/SECAM MODELS) are able to receive NTSC on AV.
8007997 Tuner & IF system B/G/M PCB.

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Mounting modules for modification to other TV transmission systems				
PAL B/G/I	**PAL/SECAM B/G/L/I[1)]**	**PAL/SECAM B/G/D/K**	**PAL/SECAM B/G/L[1)]**	**PAL/SECAM B/G NTSC M**
	3390452	3390453		8007997
	3390452	3390453		8007997
3390452 +8007449	3390452 +8007449 +8008062	3390453 +8007449 +8008062	8007449 +8008062	8007997 +8008062
	3390452	3390453		8007997
3390452 +8007449	3390452 +8007449 +8008062	3390453 +8007449 +8008062	8007449 +8008062	8007997 +8008062
	3390452	3390453		8007997
	3390452	3390453		8007997
	3390452	3390453		8007997
3390452 +8007449	3390452 +8007449 +8008062	3390453 +8007449 +8008062	8007449 +8008062	8007997 +8008062
3390452 +8007449	3390452 +8007449 +8008062	3390453 +8007449 +8008062	8007449 +8008062	8007997 +8008062
	3390452	3390453		8007997

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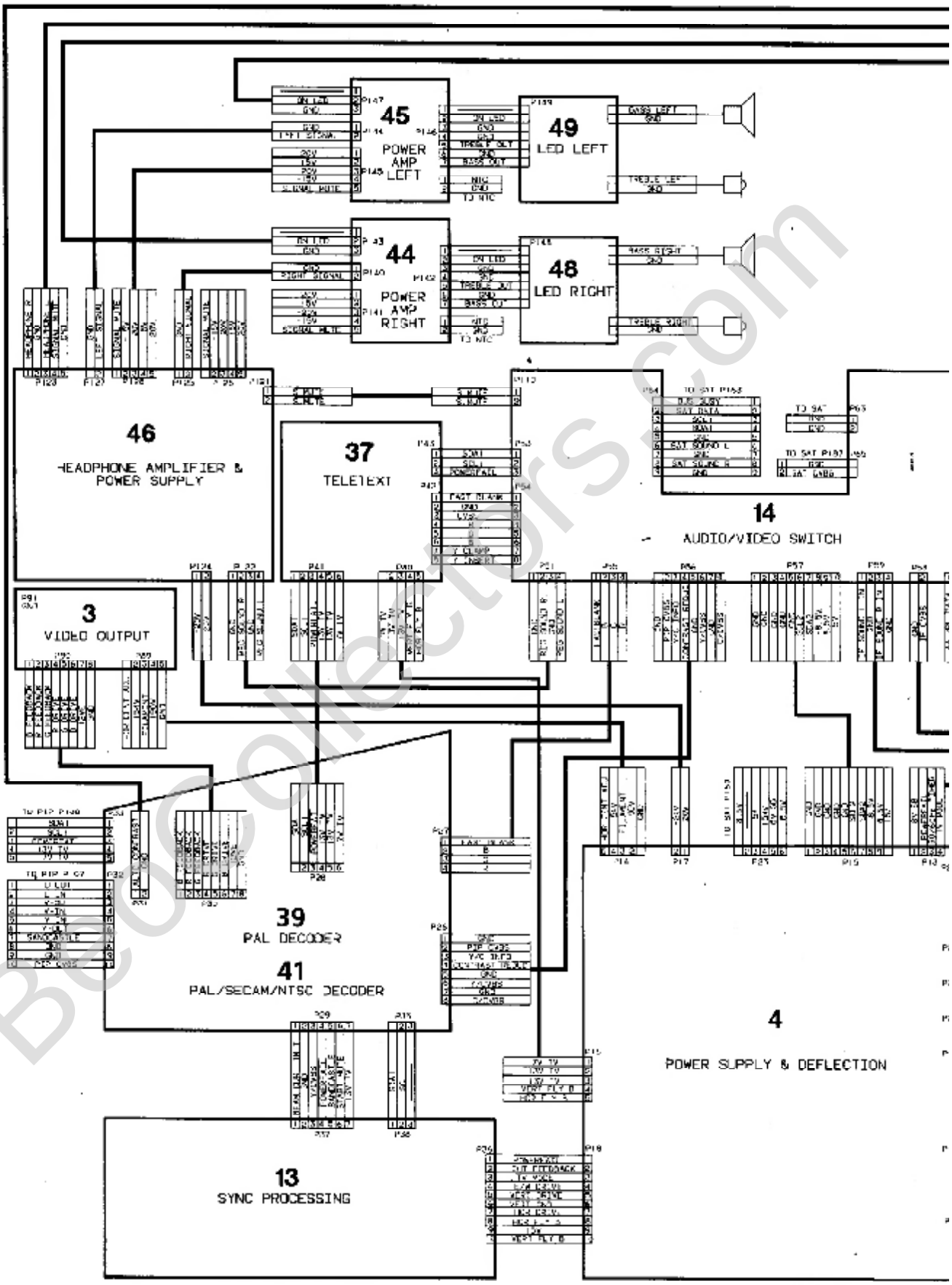
WIRING DIAGRAM



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9-1
WIRING DIAGRAM

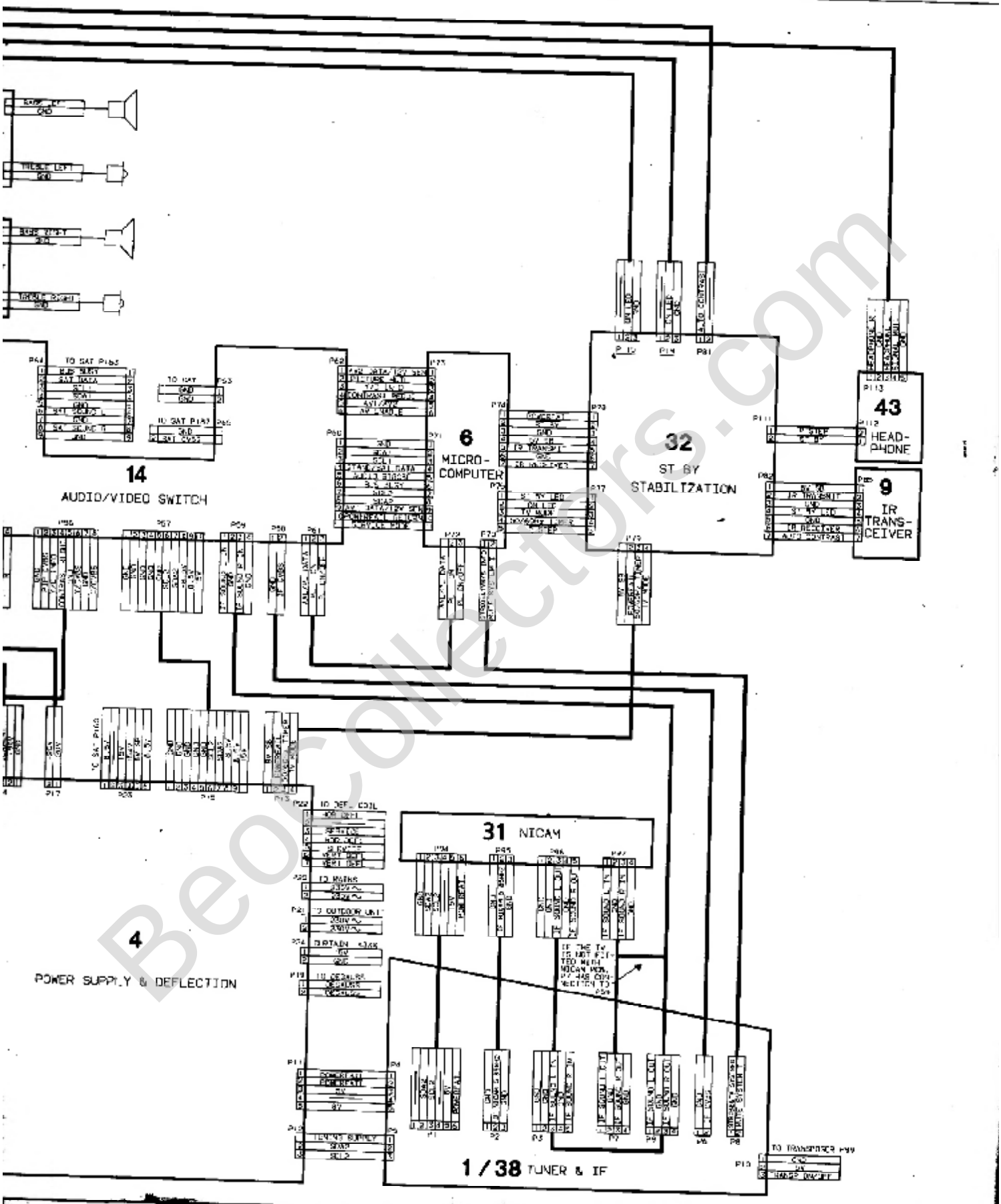

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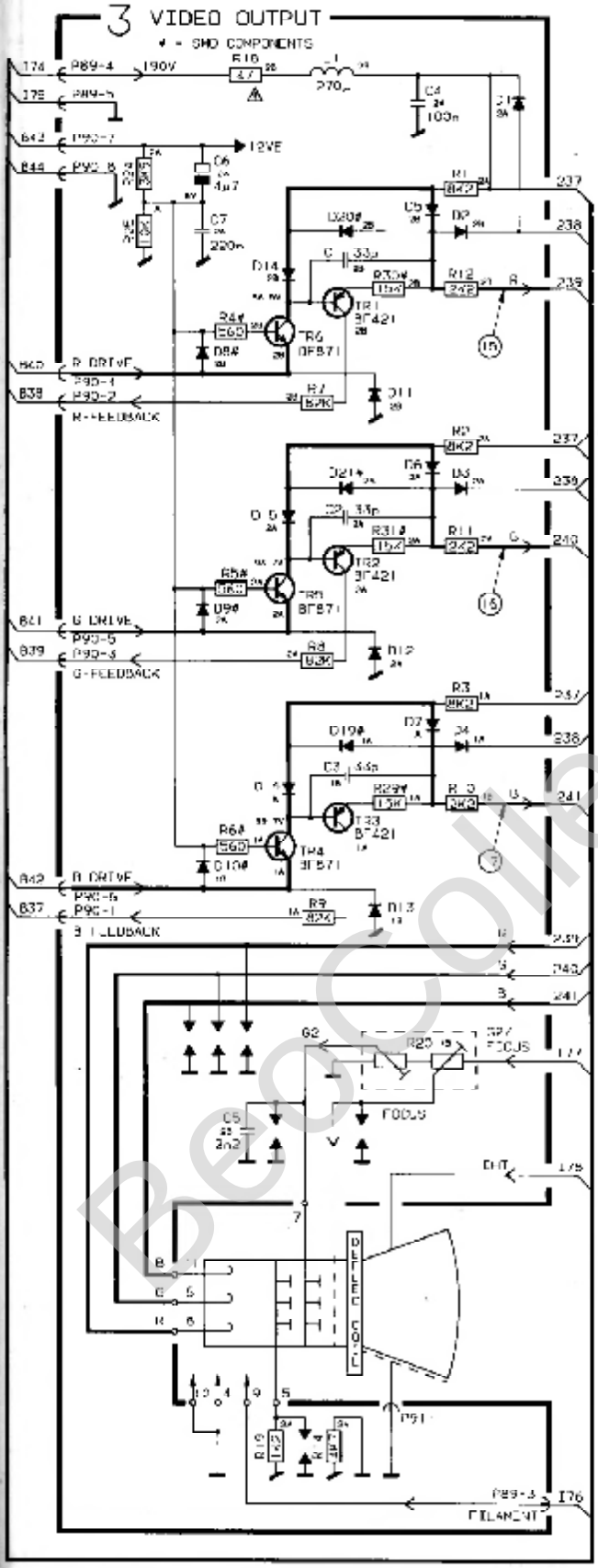
DIAGRAM C VIDEO OUTPUT



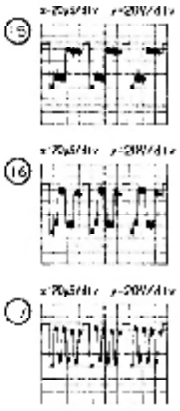


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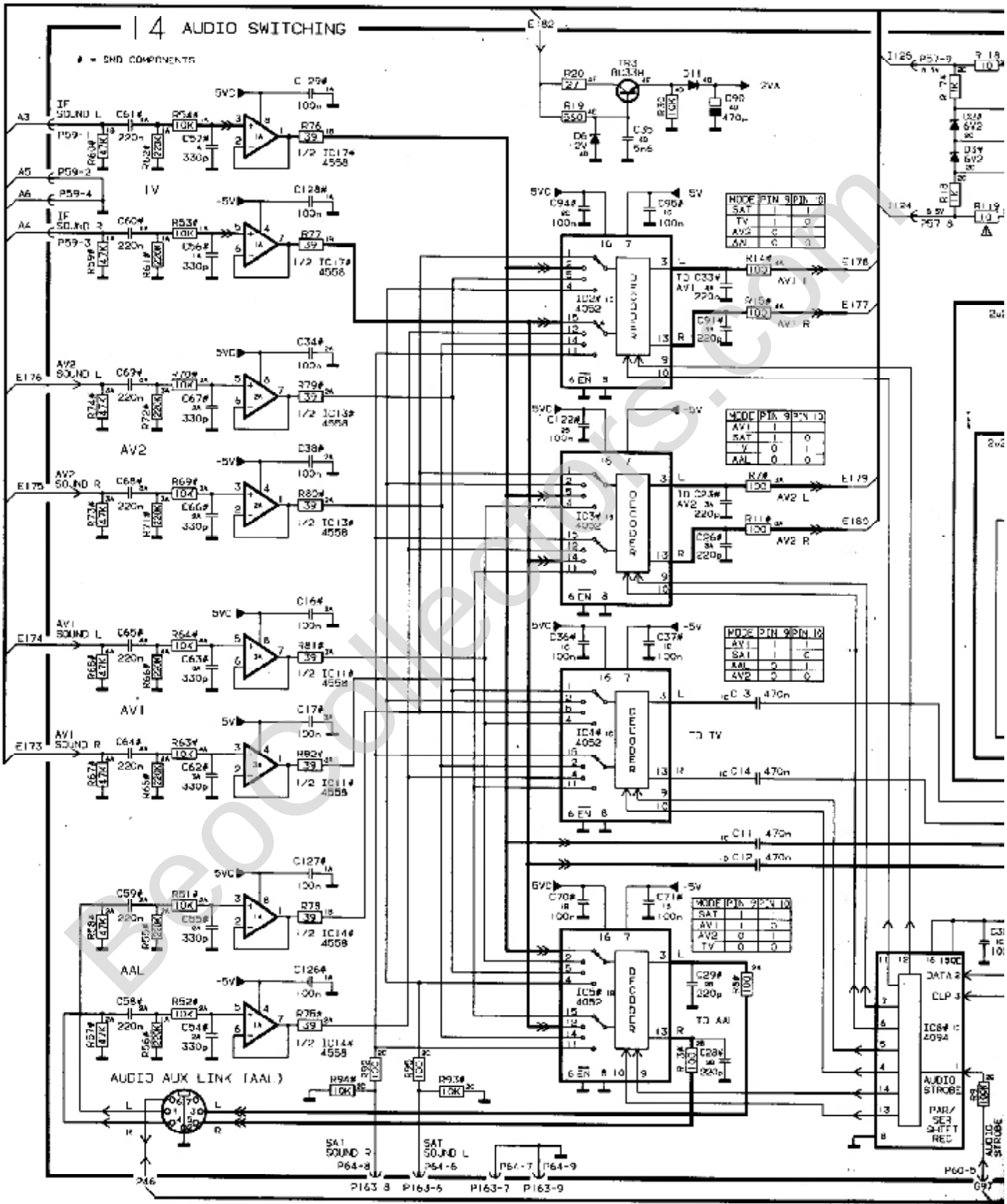
DIAGRAM D SOUND SWITCHING & CONTROL



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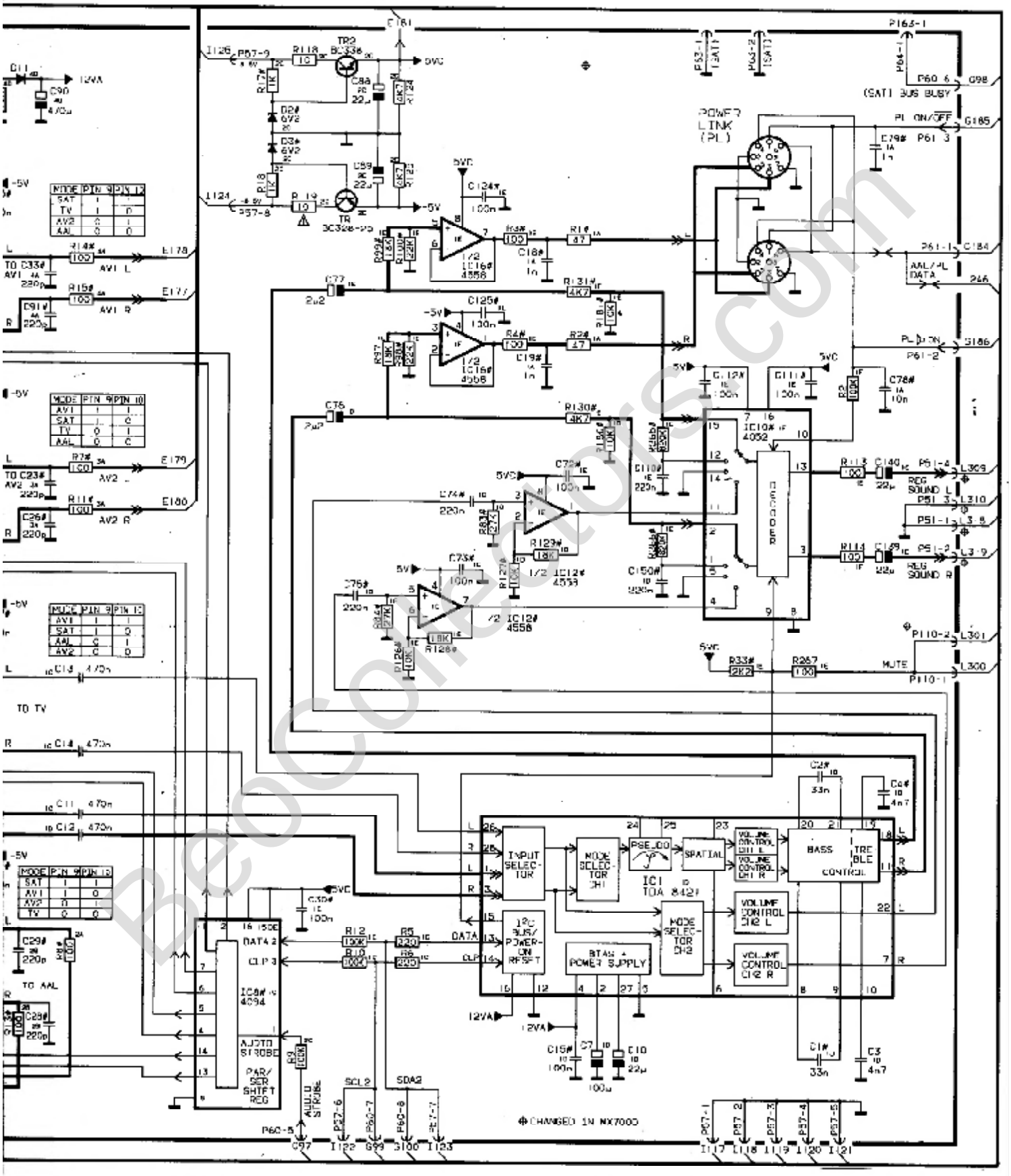
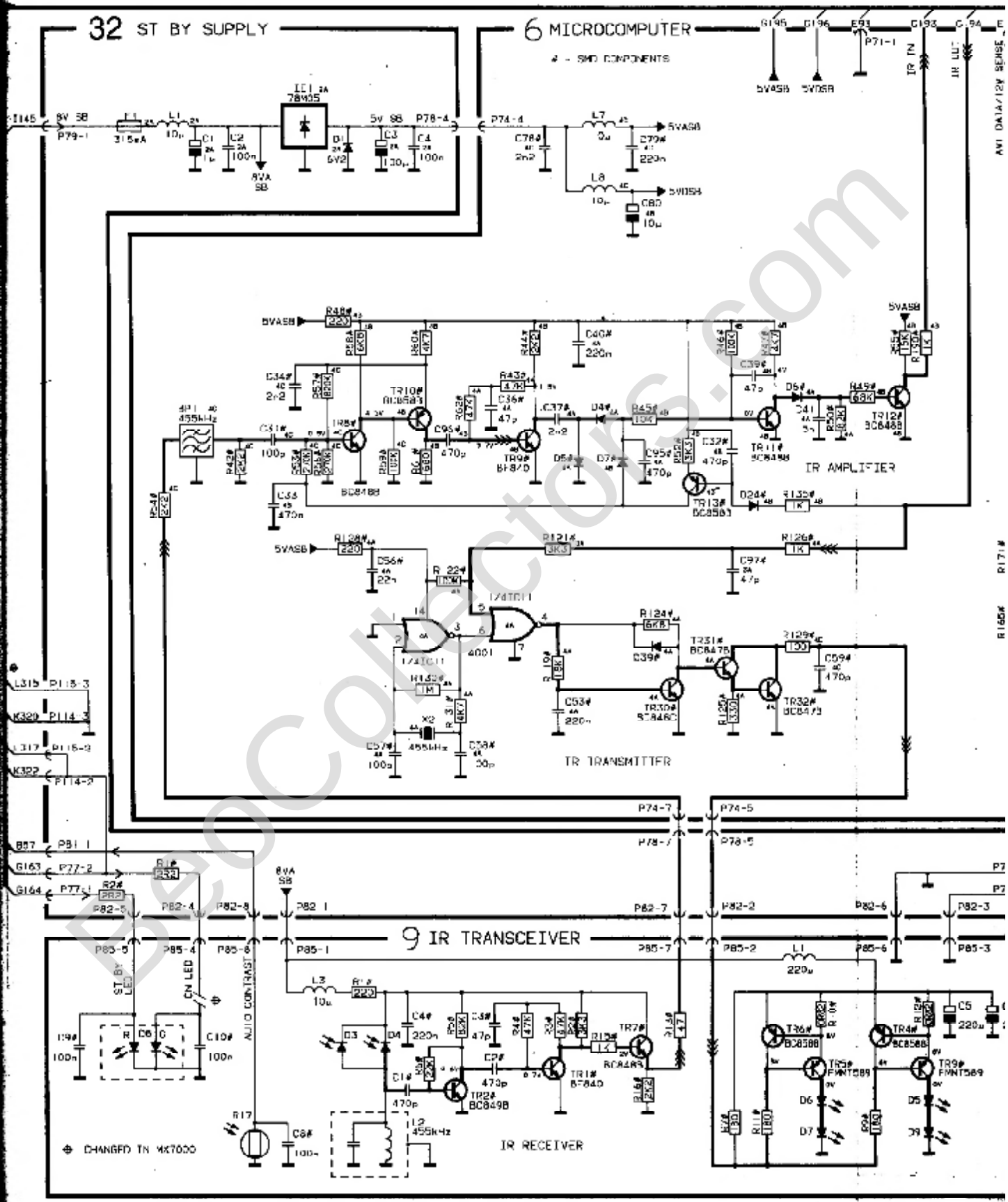
9-3
DIAGRAM D



BeoConstructions.com

AGRAM F IR TRANSCEIVER AND 5V ST BY SUPPLY



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9-4
DIAGRAM F

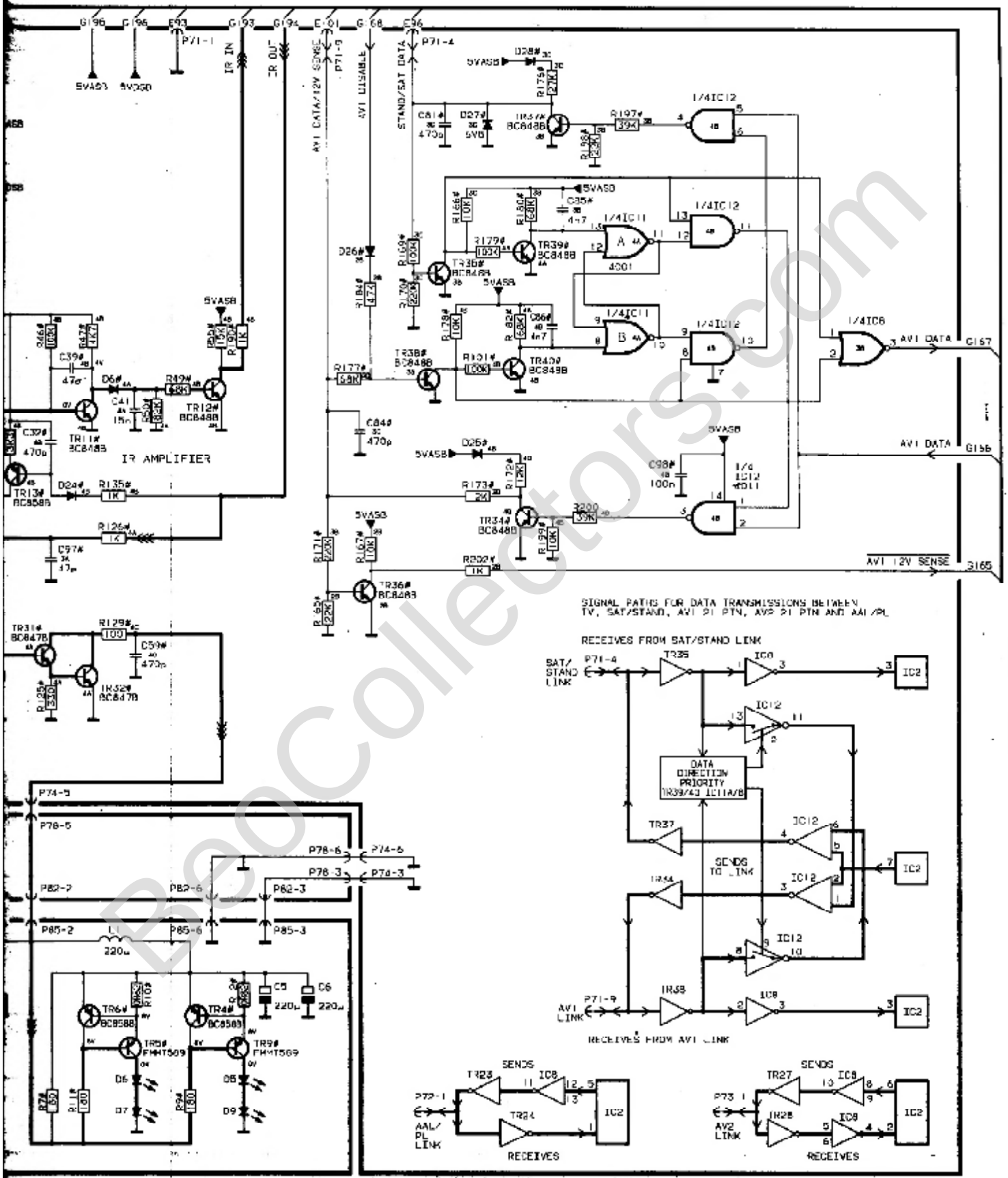

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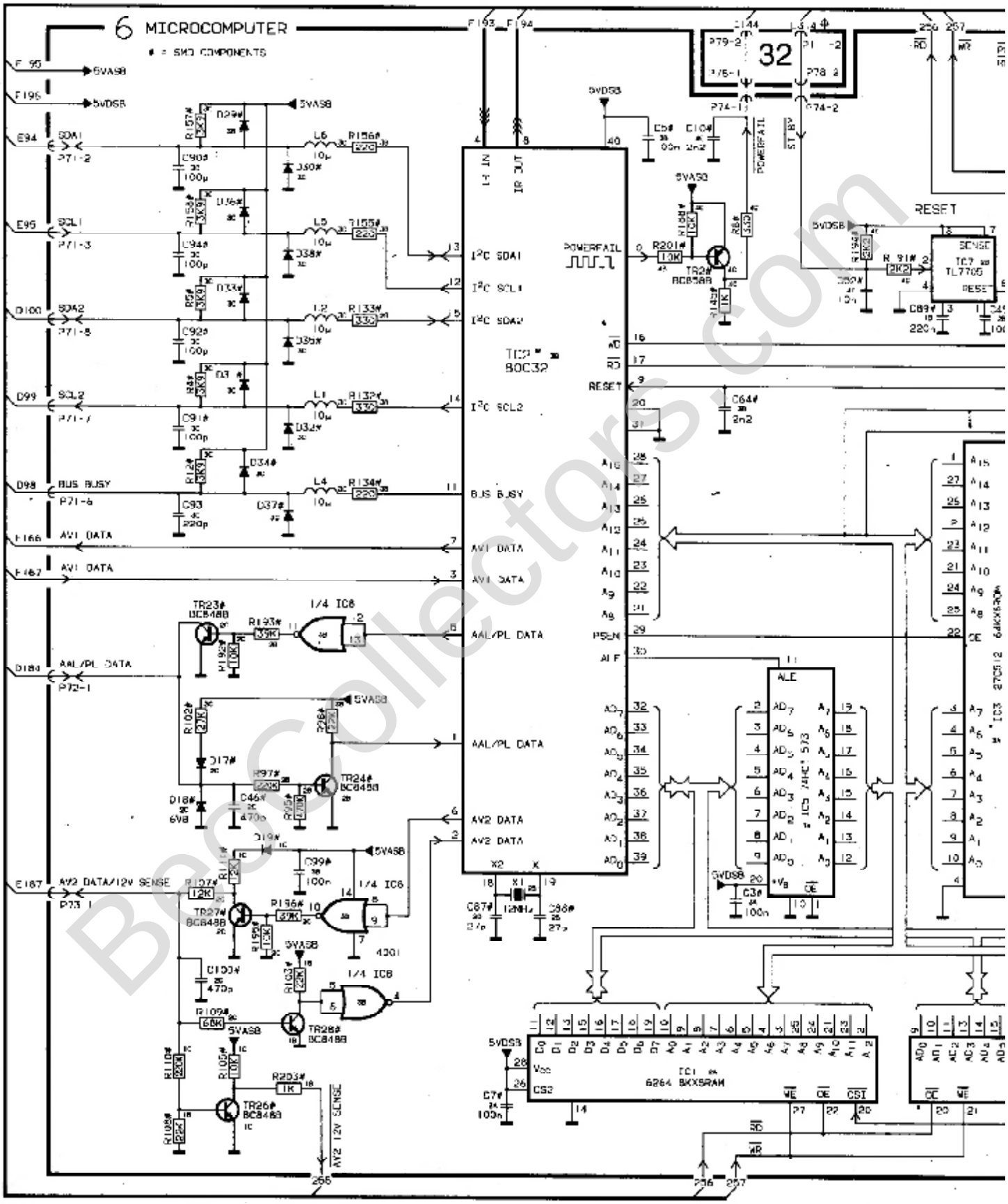
DIAGRAM G MICROCOMPUTER



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9-5
DIAGRAM G

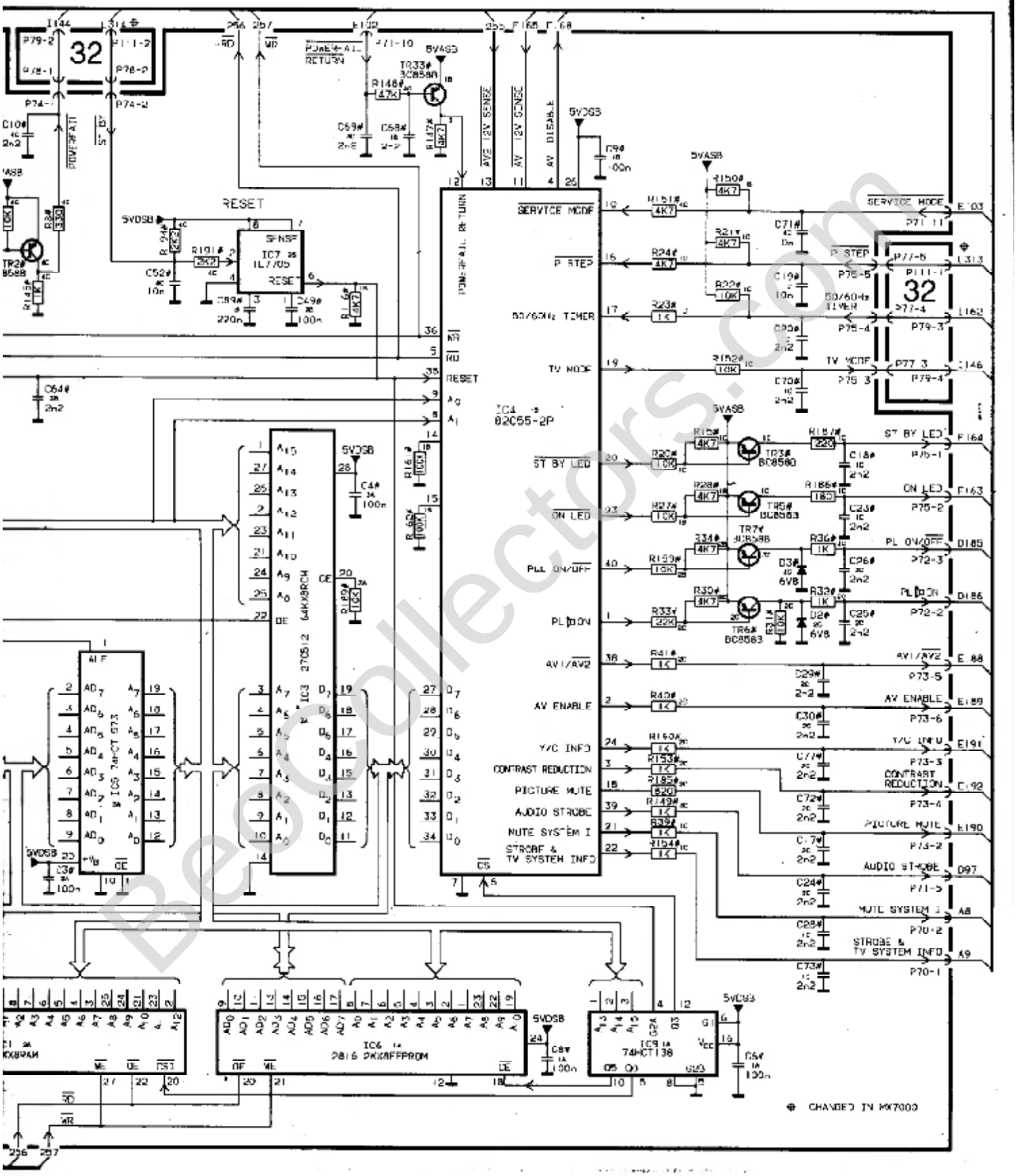

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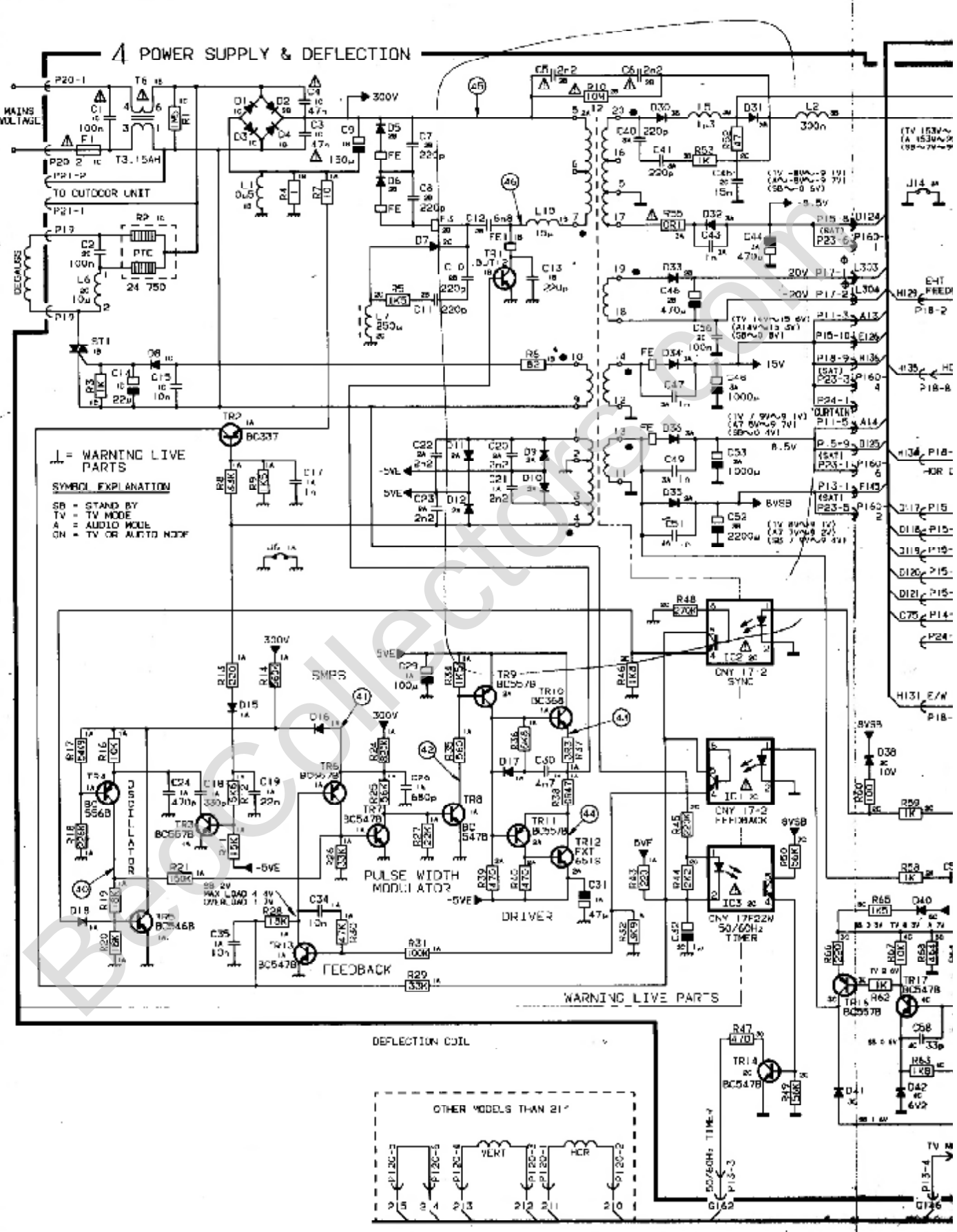
DIAGRAM I POWER SUPPLY & DEFLECTION



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9-6
DIAGRAM I

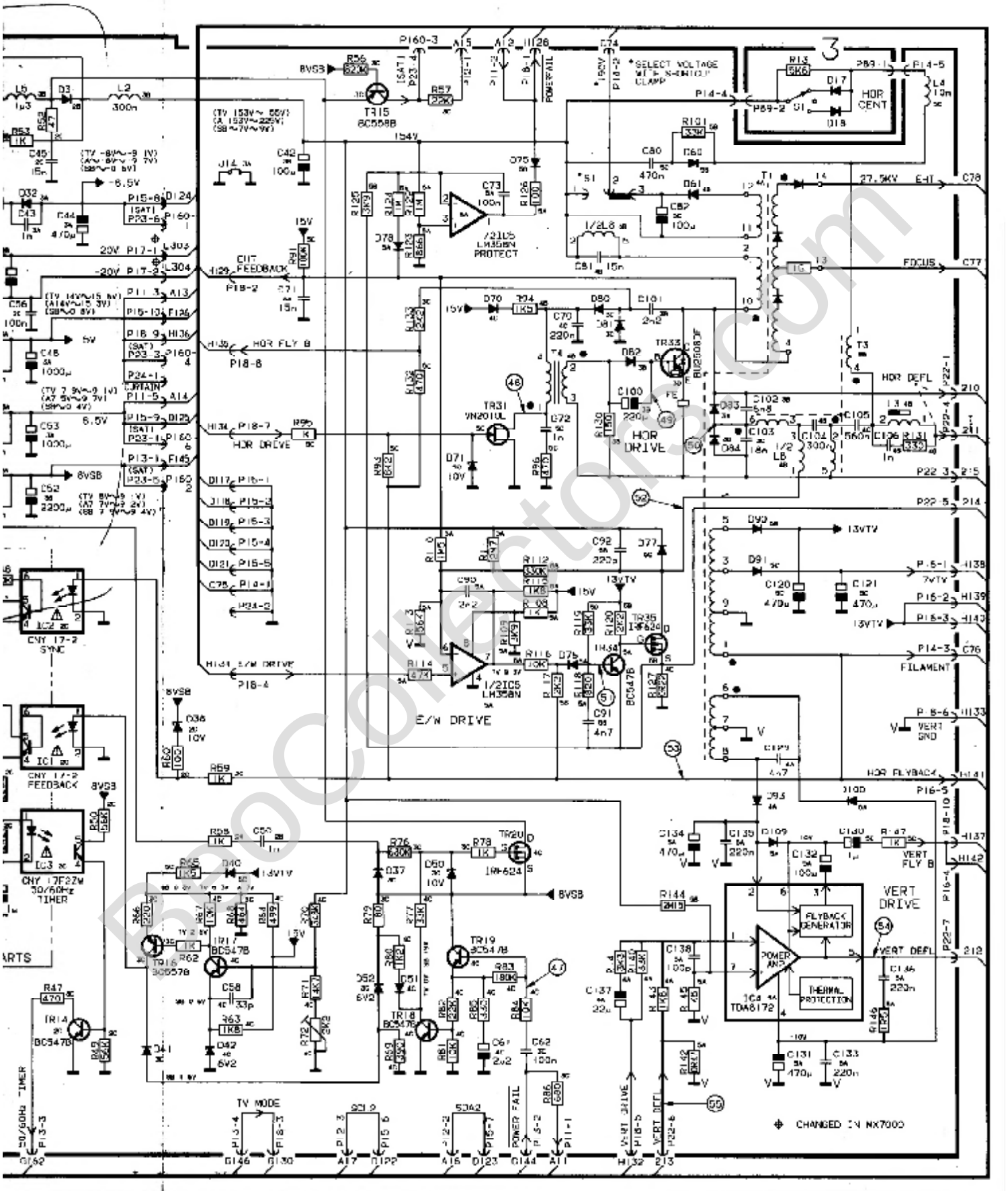

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DIAGRAM K POWER AMPLIFER RIGHT

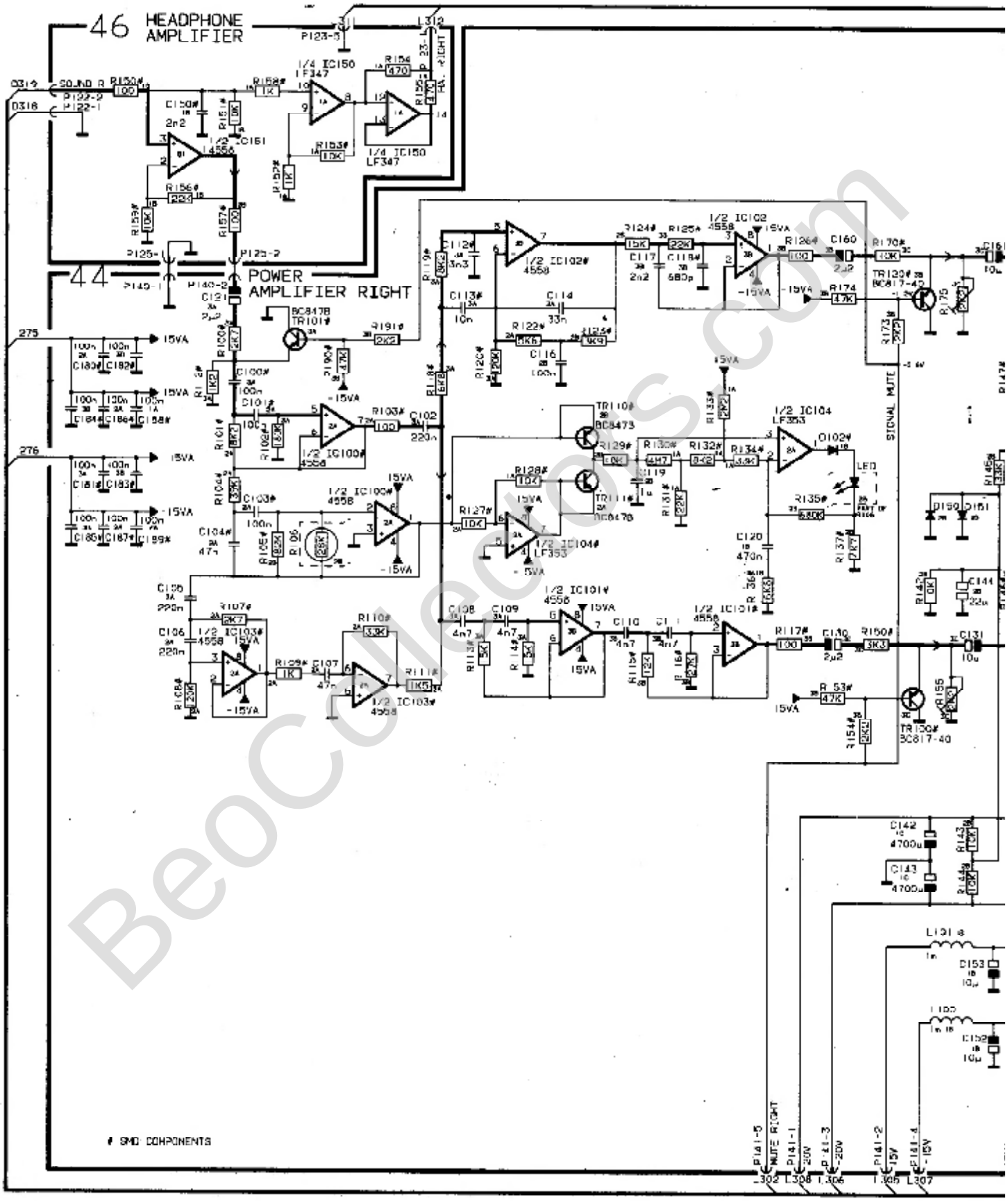

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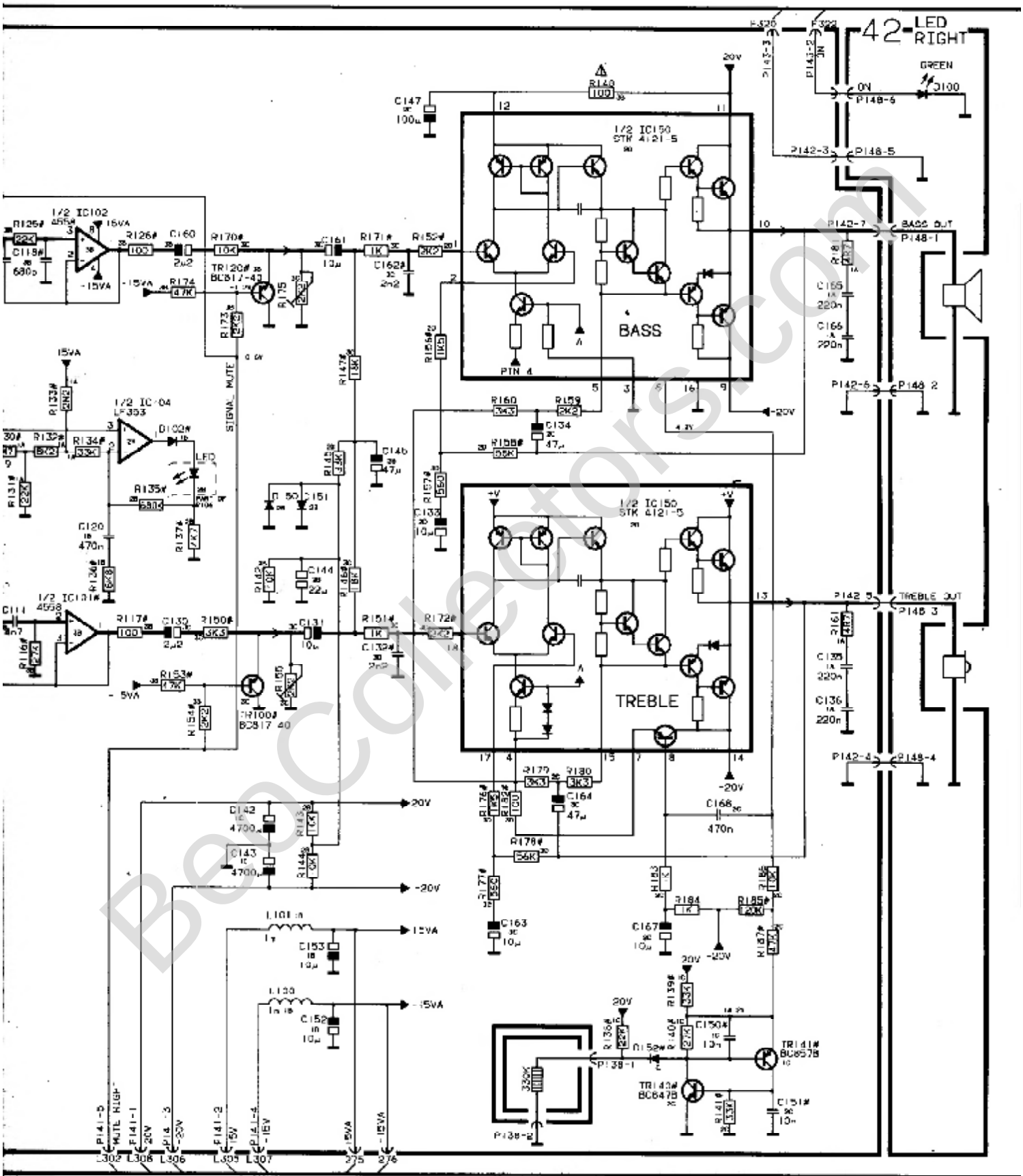
DIAGRAM K



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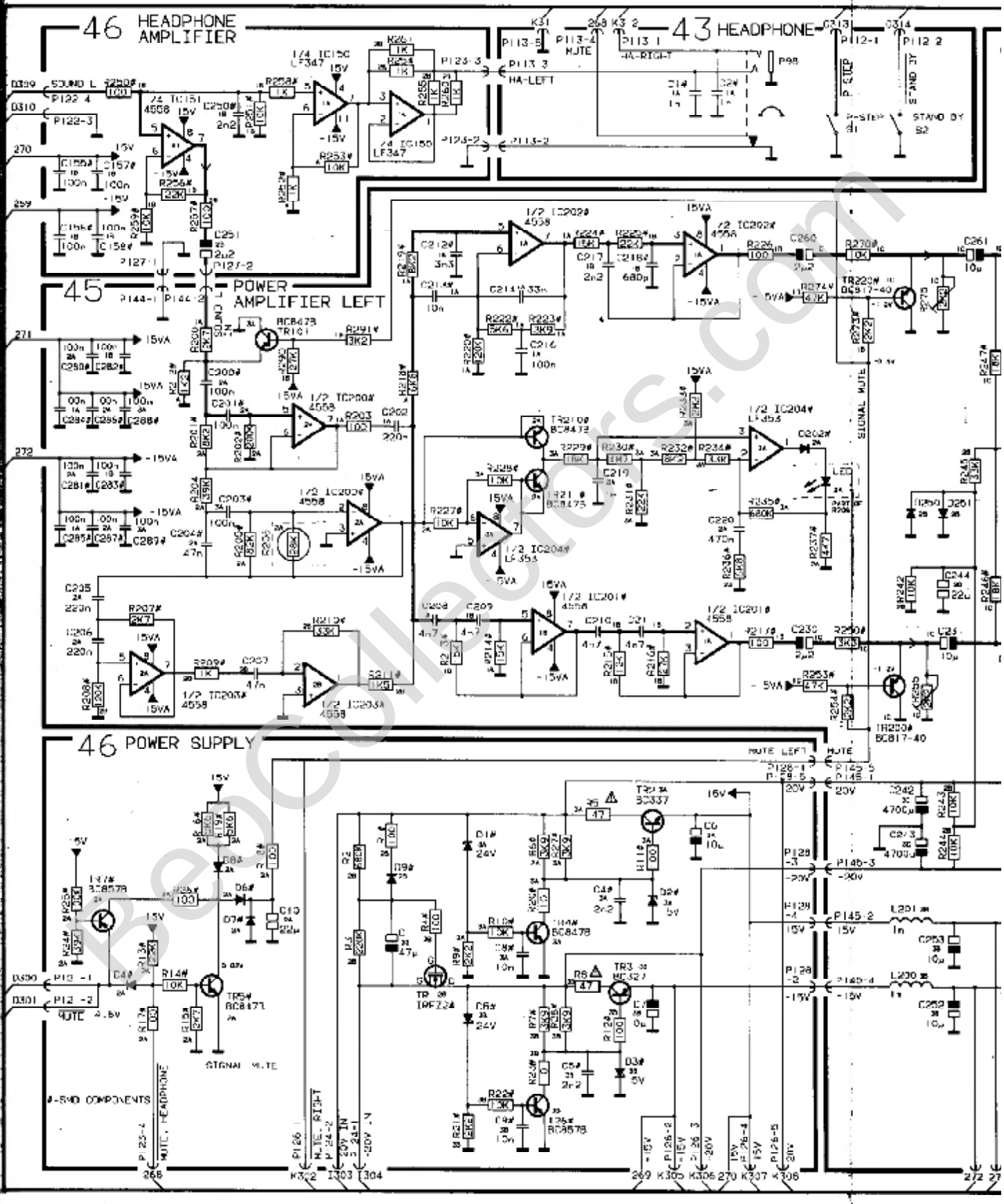
AGRAM L POWER AMPLIFER LEFT



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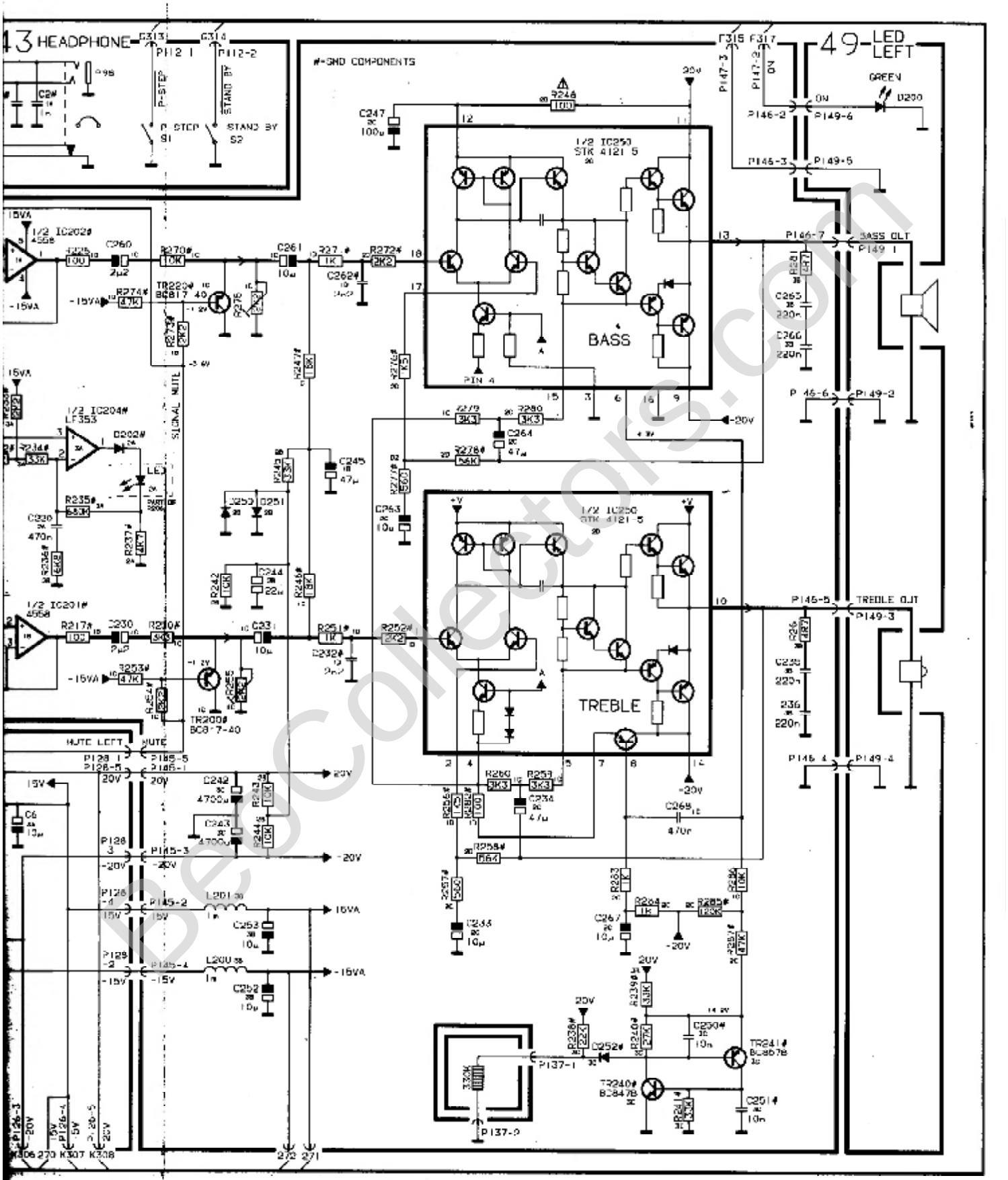
9-8
DIAGRAM L



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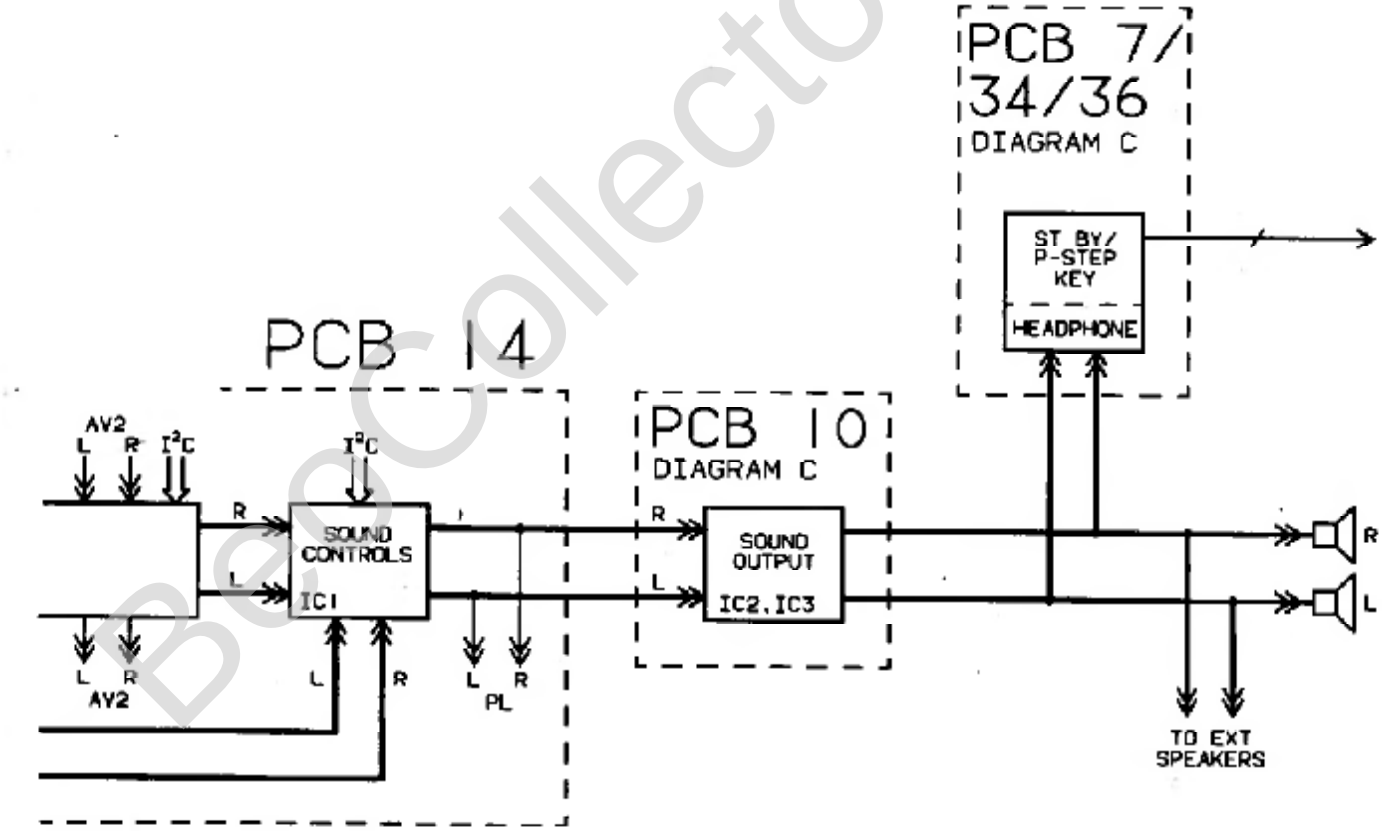
9-9

PART OF PAGE 2-3



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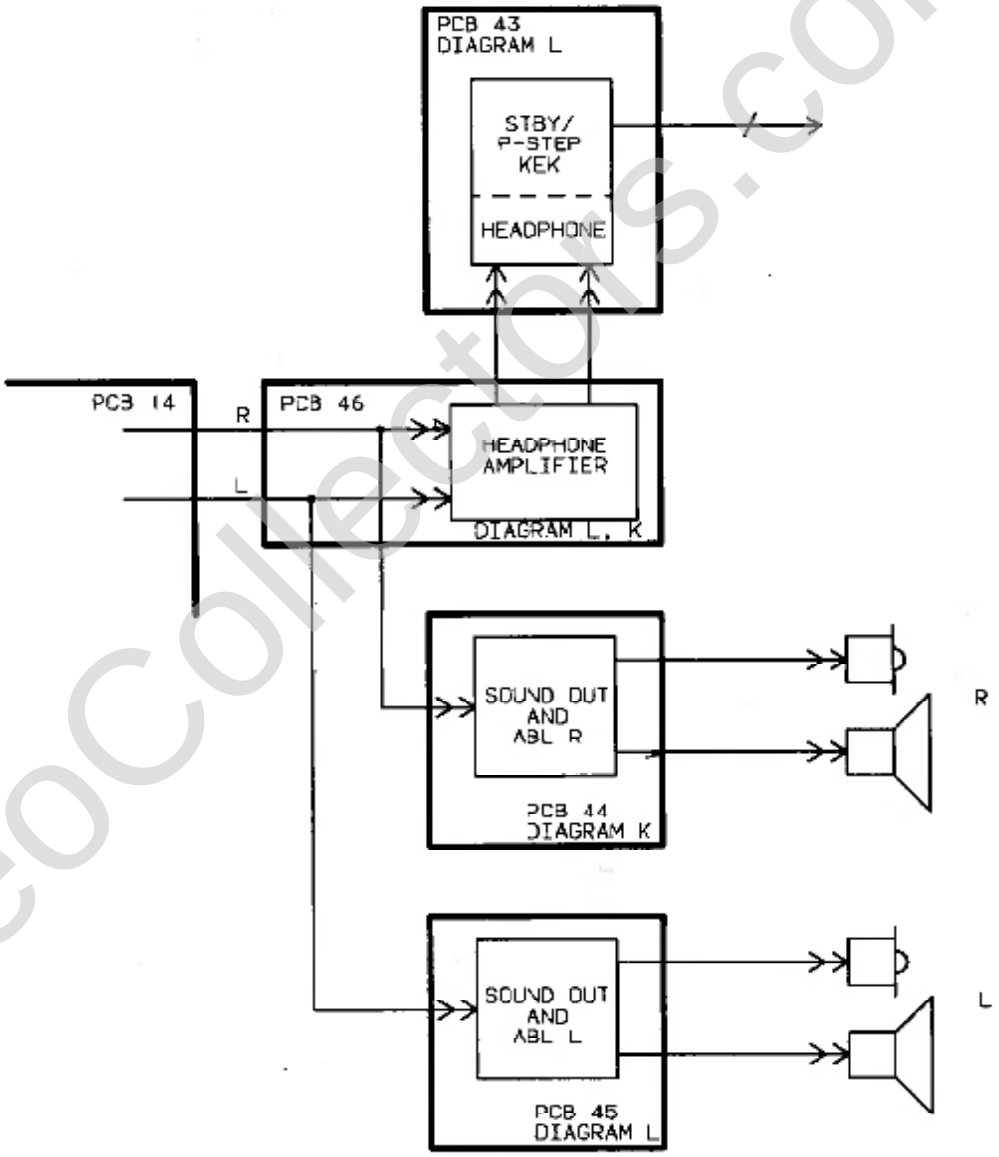

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ADJUSTMENT

Adjustment of bass/treble levels

When a speaker is replaced, the level has to be adjusted.
The new unit will have a rated value printed on the back, stated in dB.

This is the target value of the adjustment.

The speaker units need not be connected when the adjustment is performed.

1. Connect an audio oscillator to the AUDIO AUX LINK socket:

   – right channel, pin 5.

   – left channel, pin 3.

   – ground, pin 2.

Signal levels

When adjusting a tweeter, apply a signal of 10kHz – 500mV.

When adjusting a woofer, apply a signal of 1kHz – 500mV.

2. The TV must be switched on during the adjustment, and the following settings must be used:

Volume	**60**
Bass	**0**
Treble	**0**
Balance	**0**
Loudness	**0**

NOTE!
If this audio setup is not stored, it has to be repeated in case the TV is switched on after having been switched off during the adjustment procedure.

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3. To obtain an input signal from the AUDIO AUX LINK socket, press AV RADIO.

4. Connect a AC voltmeter across the connection terminals of the replaced unit.
Adjust by means of:

Tweeter
right channel: R155-PCB44
left channel: R255-PCB45

Woofer
right channel: R175-PCB44
left channel: R275-PCB45

to the voltage in Table 1 that corresponds to the rated value.

Replacement of PCB44

When PCB44 is replaced, the level of the tweeter has to be adjusted to 2,39V by means of R155-PCB44 and that of the woofer to 2,04V by means of R175-PCB44.

Replacement of PCB45

When PCB45 is replaced, the level of the tweeter has to be adjusted to 2,39V by means of R255-PCB45 and that of the woofer to 2,04V by means of R275-PCB45.

Rated value in dB	Treble	Bass
2,00	1,90V	1,62V
1,75	1,96V	1,67V
1,50	2,01V	1,72V
1,25	2,07V	1,77V
1,00	2,13V	1,82V
0,75	2,19V	1,88V
0,50	2,26V	1,93V
0,25	2,32V	1,98V
0,00	2,39V	2,04V
–0,25	2,46V	2,10V
–0,50	2,53V	2,17V
–0,75	2,61V	2,23V
–1,00	2,68V	2,29V
–1,25	2,76V	2,36V
–1,50	2,84V	2,43V
-1,75	2,93V	2,50V
–2,00	3,01V	2,57V

Tabel 1

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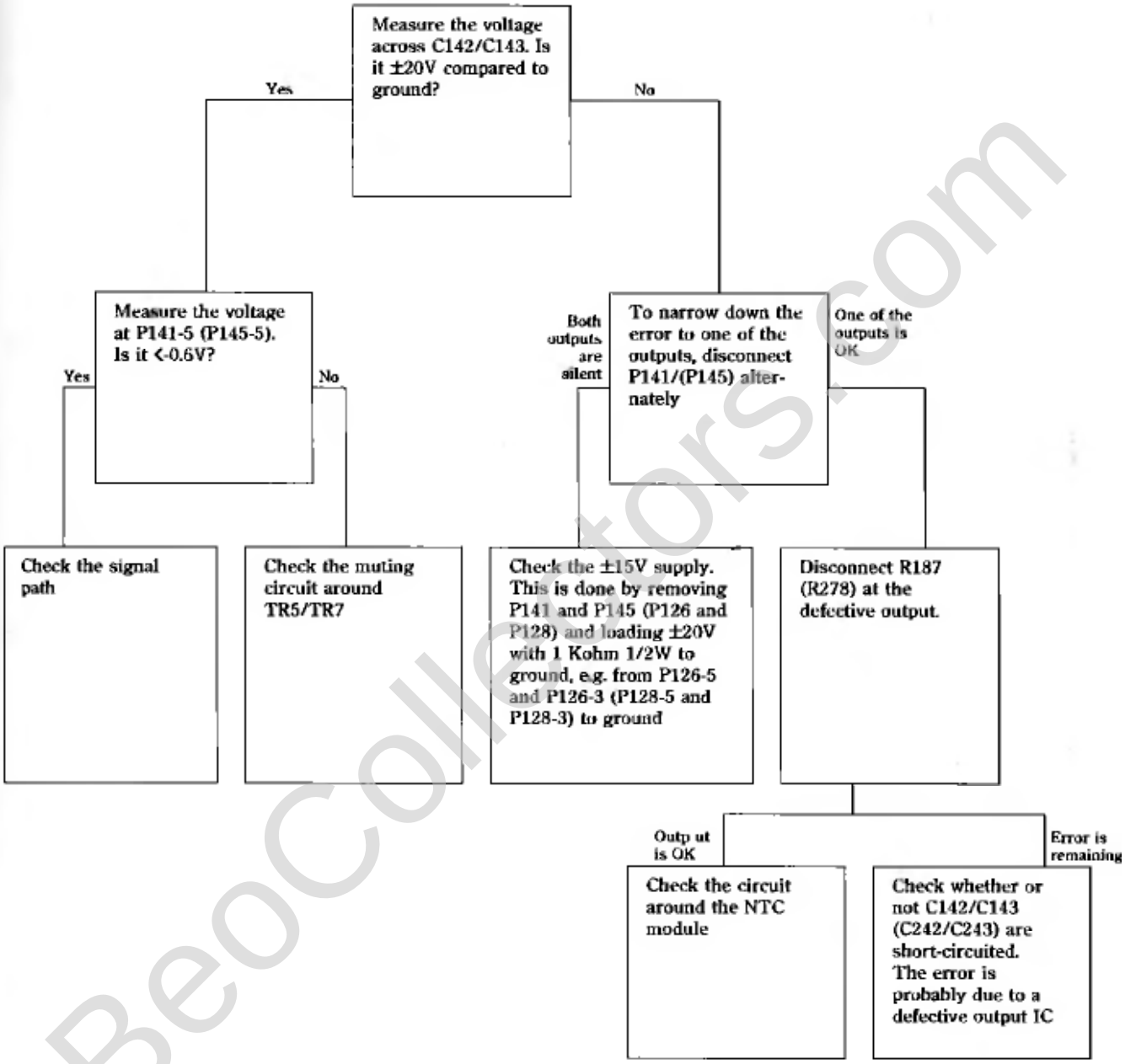
Repair tips

If both outputs are silent, this will often be due to an uneven loading of the ±20V supply.
The chart below can be used to pinpoint the reason for the error.

Position numbers in brackets apply to the left channel.



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The ABL function is checked most easily by connecting an audio oscillator (80 Hz) to the AUDIO AUX LINK socket.

The following settings must be used during the testing procedure:

Volume	**80**
Bass	**0**
Treble	**0**
Balance	**0**
Loudness	**0**

NOTE!
If this audio setup is not stored, it has to be repeated in case the TV is switched on after having been switched off during the adjustment procedure.

To obtain an input signal from the AUDIO AUX LINK socket, press [AV] [RADIO].

Connect a DC voltmeter across R137-PCB44 (R237-PCB45).

Set the audio oscillator level to approx. 70mV, and then increase it slowly until the voltage across R137-PCB44 (R237-PCB45) just begins to increase from 0V. The voltage must be between 0 and 30mV. In this condition the ABL will just be active.

Then increase the level at the input by 10dB.

The voltage across R137-PCB44 (R237-PCB45) must increase to approx. 2.6V immediately.

Damp the level at the input by 10dB.

After 5 to 10 seconds, the voltage across R137-PCB44 (R237-PCB45) must drop to approx. 0V. The ABL is now out of operation.

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