

Service Manual



Video Projection Monitor
TC-43GF10M
 R12M Chassis

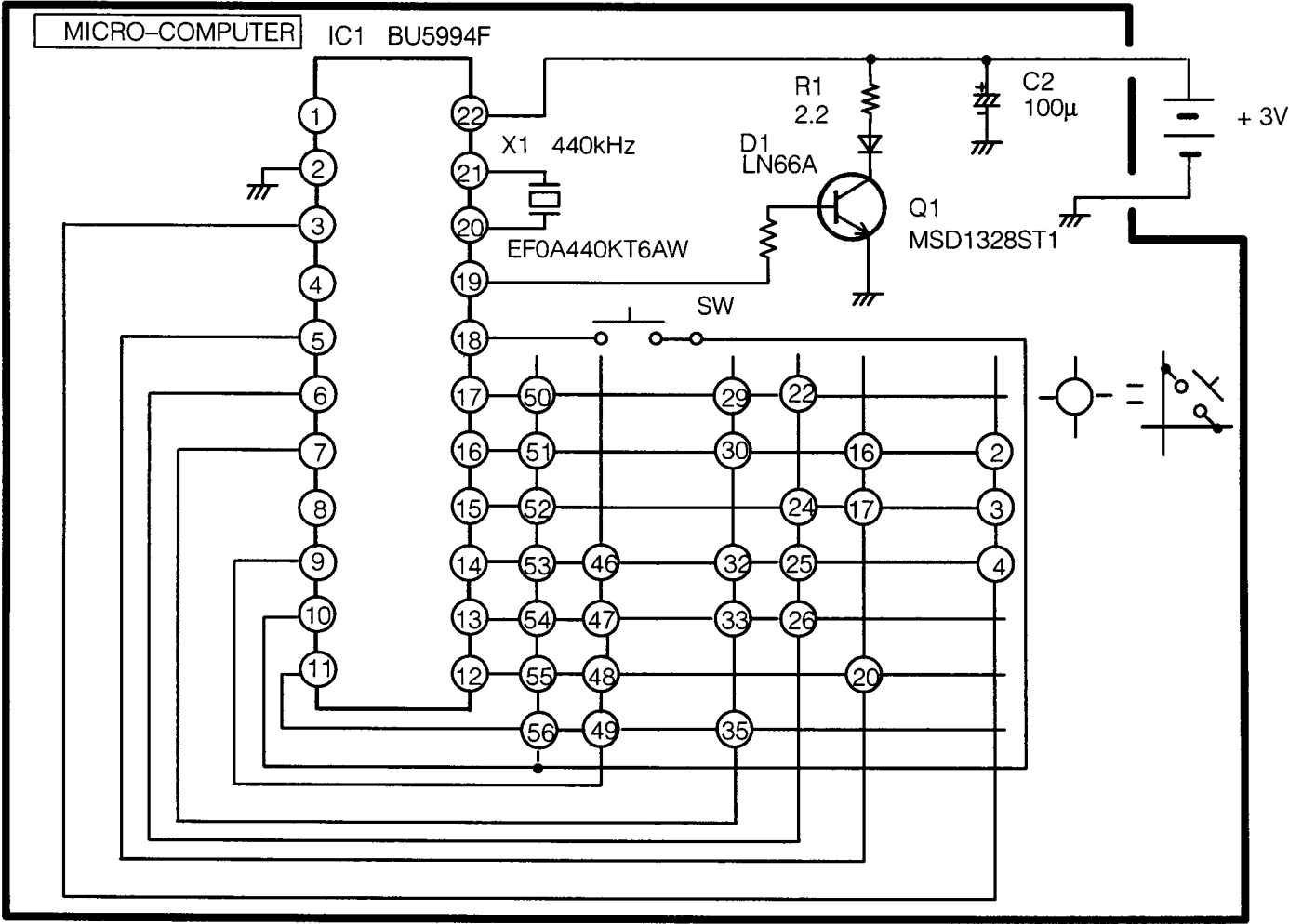
GA00

SPECIFICATIONS/ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
CHASSIS BOARDS LAYOUT/РАСПОЛОЖЕНИЕ ПЛАТ ШАССИ
SERVICE HINTS/ПРИЕМЫ ТЕХНИЧЕСКОГО ОБСЛУЖИВАНИЯ
ADJUSTMENT METHOD/МЕТОД РЕГУЛИРОВКИ
CRT Set Up/УСТАНОВКА КИНЕСКОПА
FOCUS ADJUSTMENT/РЕГУЛИРОВКА ФОКУСА
AUTO CONVERGENCE FUNCTION/ФУНКЦИЯ АВТОМАТИЧЕСКОГО СВЕДЕНИЯ ЛУЧЕЙ
CONVERGENCE PRE-ADJUSTMENT WAVEFORM/ПРЕДУСТАНОВЛЕННЫЕ КРИВЫЕ СВЕДЕНИЯ ЛУЧЕЙ
GREEN RASTER ADJUSTMENT/РЕГУЛИРОВКА ЗЕЛЕННОГО РАСТРА
AUTO-STATIC CONVERGENCE ADJUSTMENT/РЕГУЛИРОВКА СТАТИЧЕСКОГО СВЕДЕНИЯ
COMPLETE DYNAMIC CONVERGENCE ADJUSTMENT/РЕГУЛИРОВКА ДИНАМИЧЕСКОГО СВЕДЕНИЯ
SERVICE ADJUSTMENT PROCEDURES/МЕТОДИКА НАСТРОЙКИ
SPECIAL SERVICING PROCEDURE/ПРОЦЕДУРА СПЕЦИАЛЬНОГО ОБСЛУЖИВАНИЯ
LOCATION OF LEAD WIRING/РАСПОЛОЖЕНИЕ ЭЛЕКТРИЧЕСКИХ КАБЕЛЕЙ И СОЕДИНЕНИЙ
BLOCK DIAGRAMS/БЛОК-СХЕМЫ
Power Supply/Питание
Video/Видео
Audio/Аудио
Deflection/Отклонение
Control/Управление
SCHEMATIC DIAGRAMS/ПРИНЦИПИАЛЬНЫЕ СХЕМЫ
Remote Controller/Пульт дистанционного управления
N-Board/Н-Плата
P1, P2, P4, P5-Boards/Р1, Р2, Р4, Р5-Платы
E-Board/Е-Плата
V-Board/В-Плата
D, DH-Boards/Д, ДН-Платы
A-Board/А-Плата
Q-Board/Q-Плата
AD, AR, VM-Boards/AD, AR, VM-Платы
LB, LR-Boards/LB, LR-Платы
LG-Board/LG-Плата
C-Board/С-Плата
U-Board/У-Плата
C1-Board/С1-Плата
C2-Board/С2-Плата
C3-Board/С3-Плата
C4-Board/С4-Плата
M-Board/М-Плата
G, K, R-Boards/Г, К, R-Платы
X-Board/Х-Плата
T-Board/Т-Плата
Waveform Pattern Table/Форма сигналов в контрольных точках
Interconnection/Соединение
EXPLODED VIEWS AND PARTS LIST/СБОРОЧНЫЕ ЧЕРТЕЖИ И СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

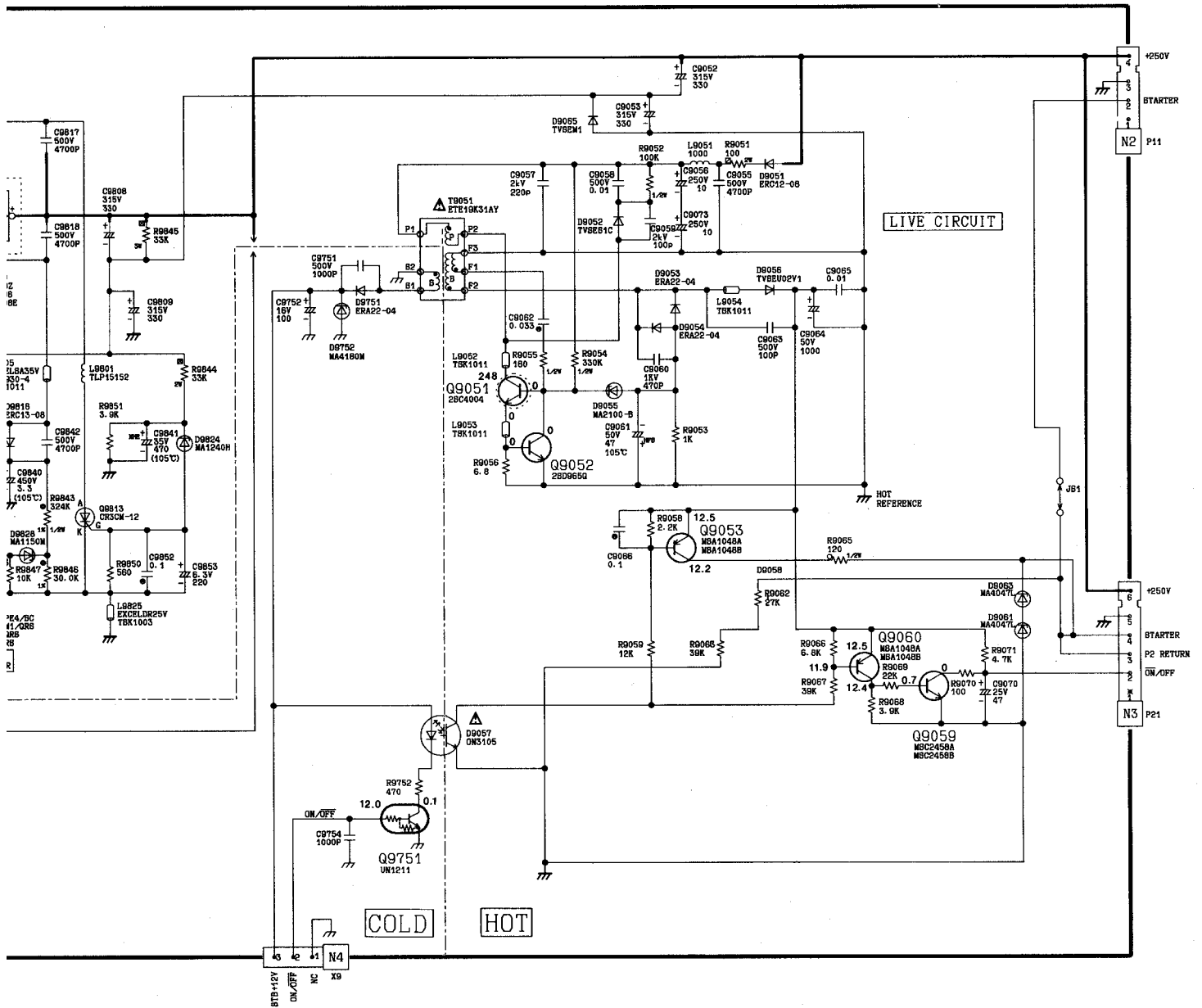
TC-43GF10M

Remote Controller EUR50717



Key Function Table

Key No.	Data Code	Function	Key No.	Data Code	Function	Key No.	Data Code	Function
2	05	AV SELECT	26	4A	POSITION UP.	49	00	VCR STOP
3	32	MUTE	29	51	SOUND MENU	50	06	VCR PAUSE
4	3D	TV POWER	30	4F	POSI. RIGHT	51	0C	VCR ADVANCE
16	20	VOL. UP.	32	4E	POSI. LEFT	52	08	VCR REC.
17	39	RECALL	33	4B	POSITION DN.	53	02	VCR REW.
20	21	VOL. DN.	35	7F	AI	54	0A	VCR PLAY.
22	49	NORMAL	46	23	VCR CH. DN.	55	03	VCR FF.
24	52	FEATURE MENU	47	22	VCR CH. UP.	56	3D	SOUND SELECT
25	50	PICTURE MENU	48	20	VCR POWER			

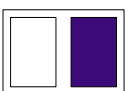


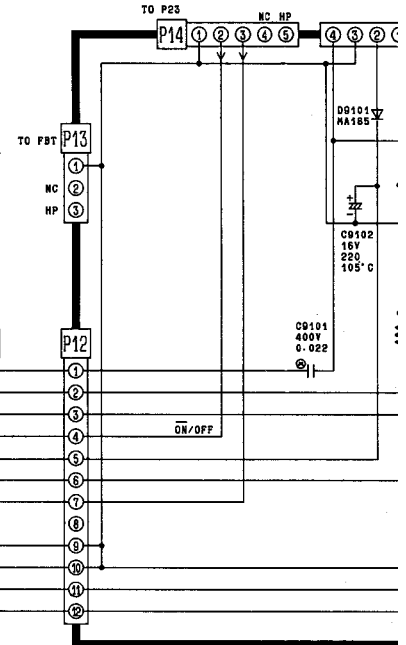
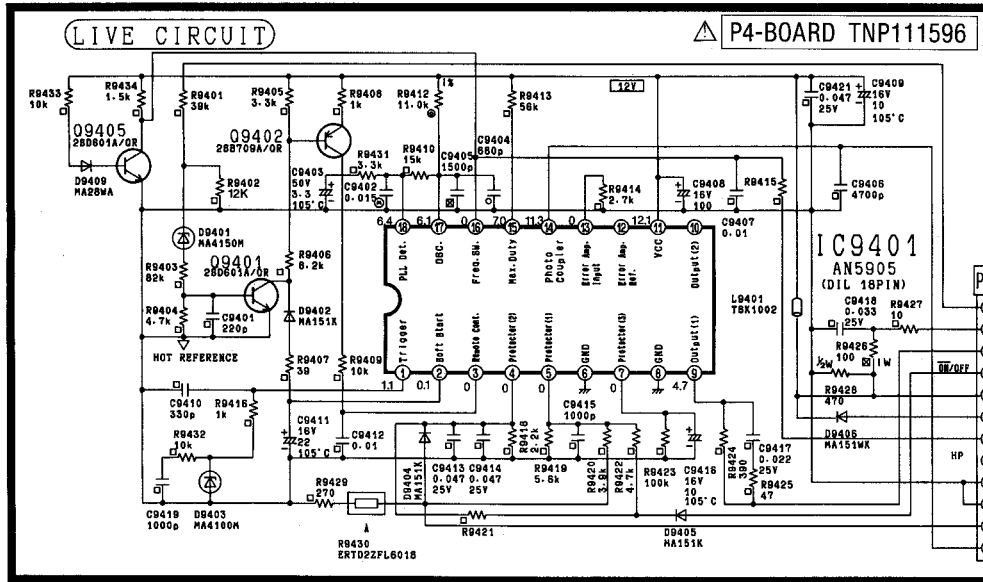
E

F

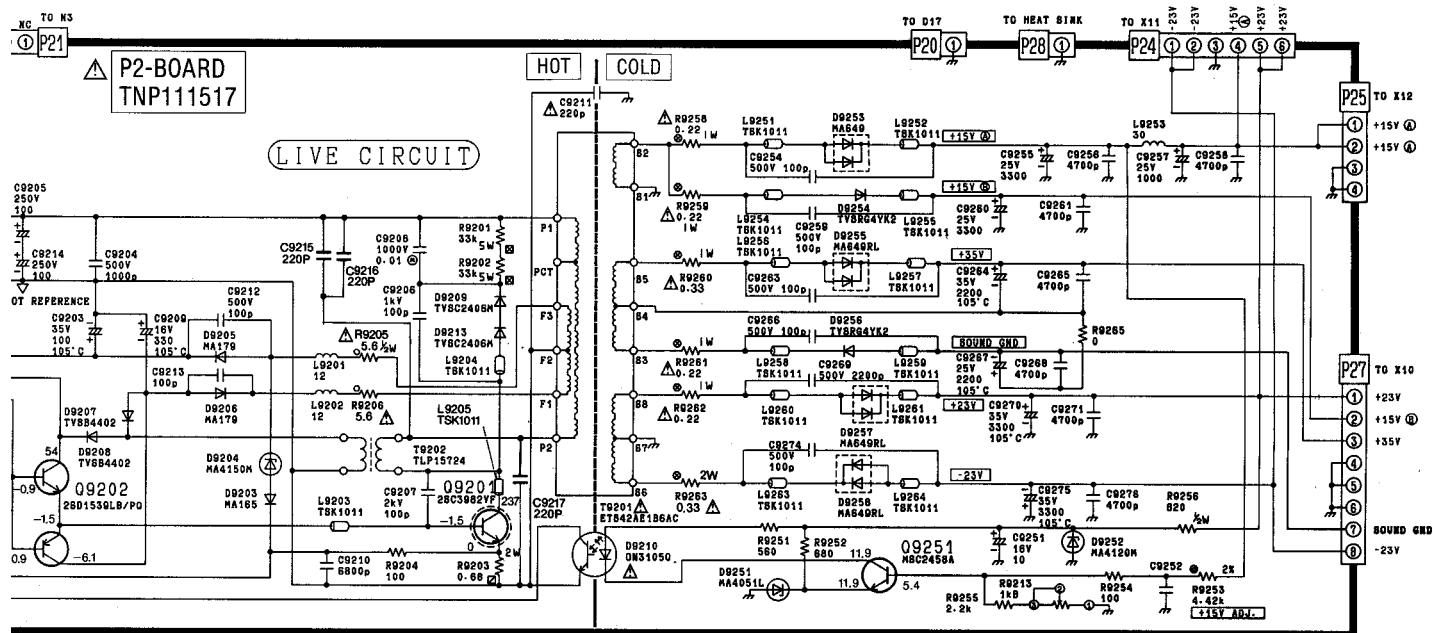
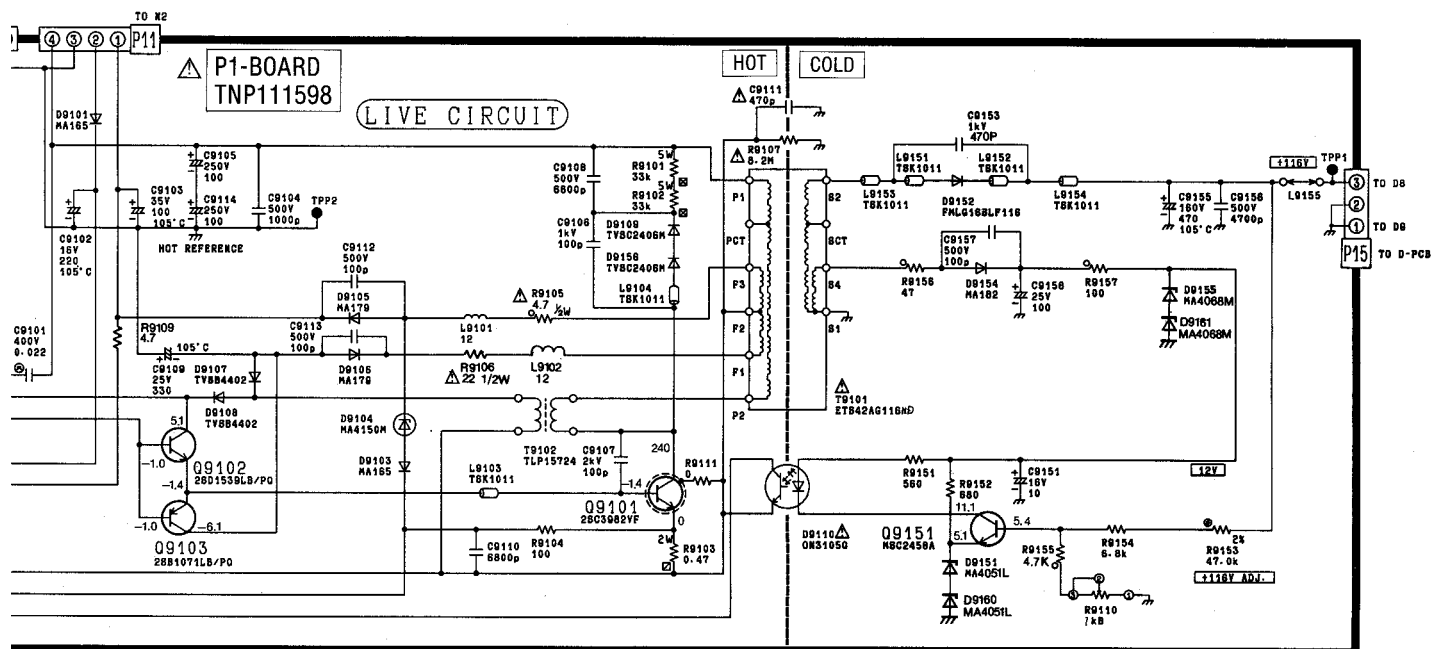
G

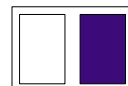
H



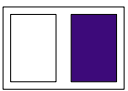


TC-43GF10M

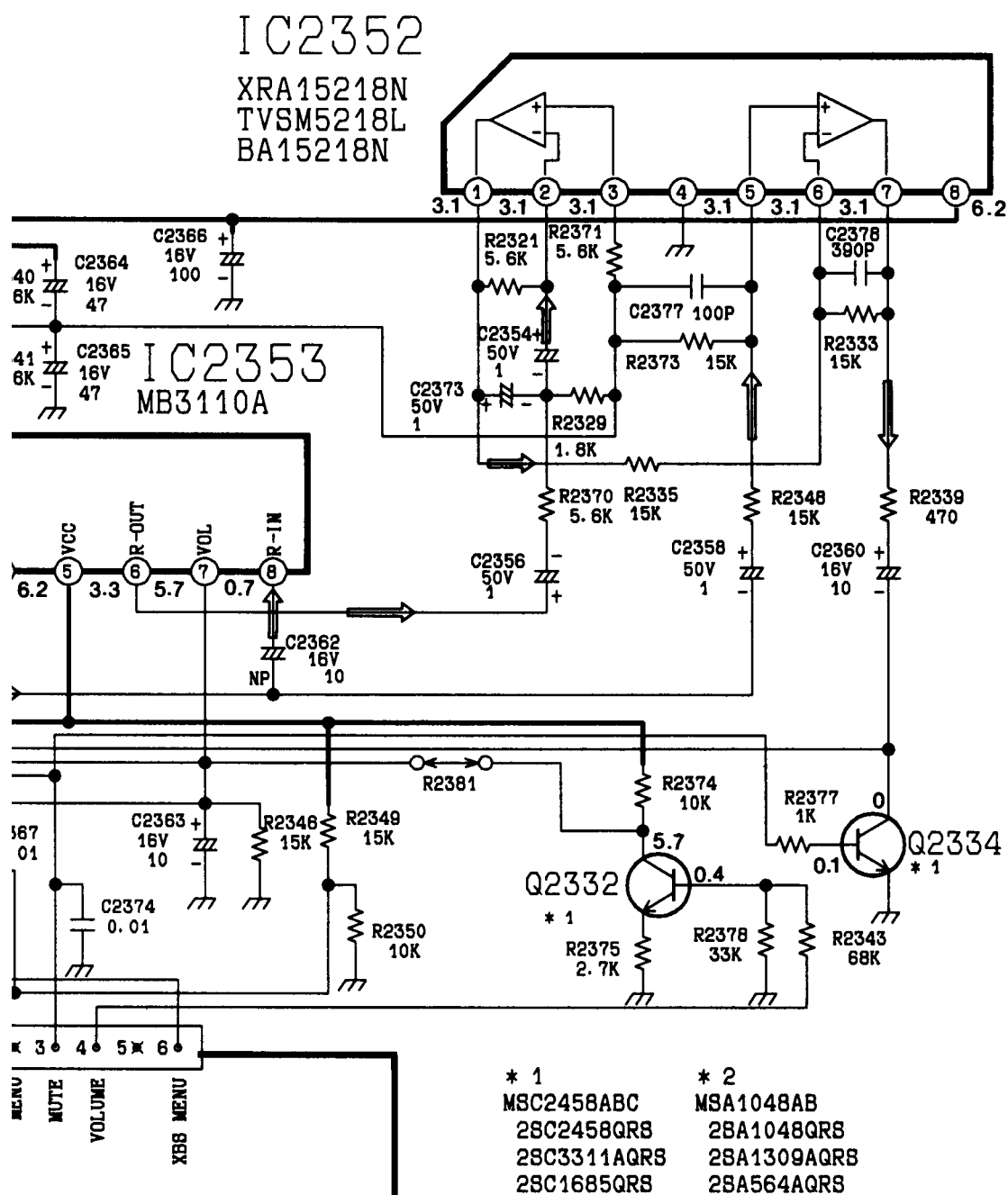


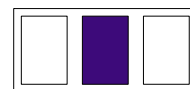


TC-43GF10M

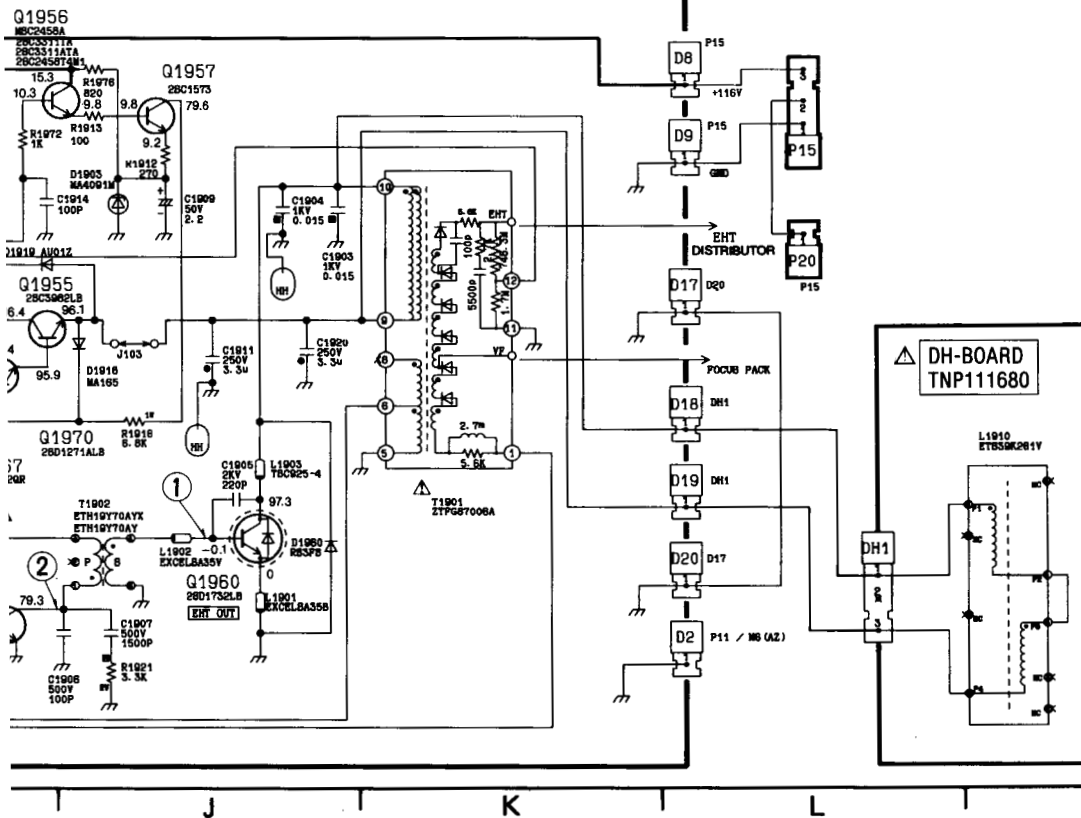


TC-43GF10M



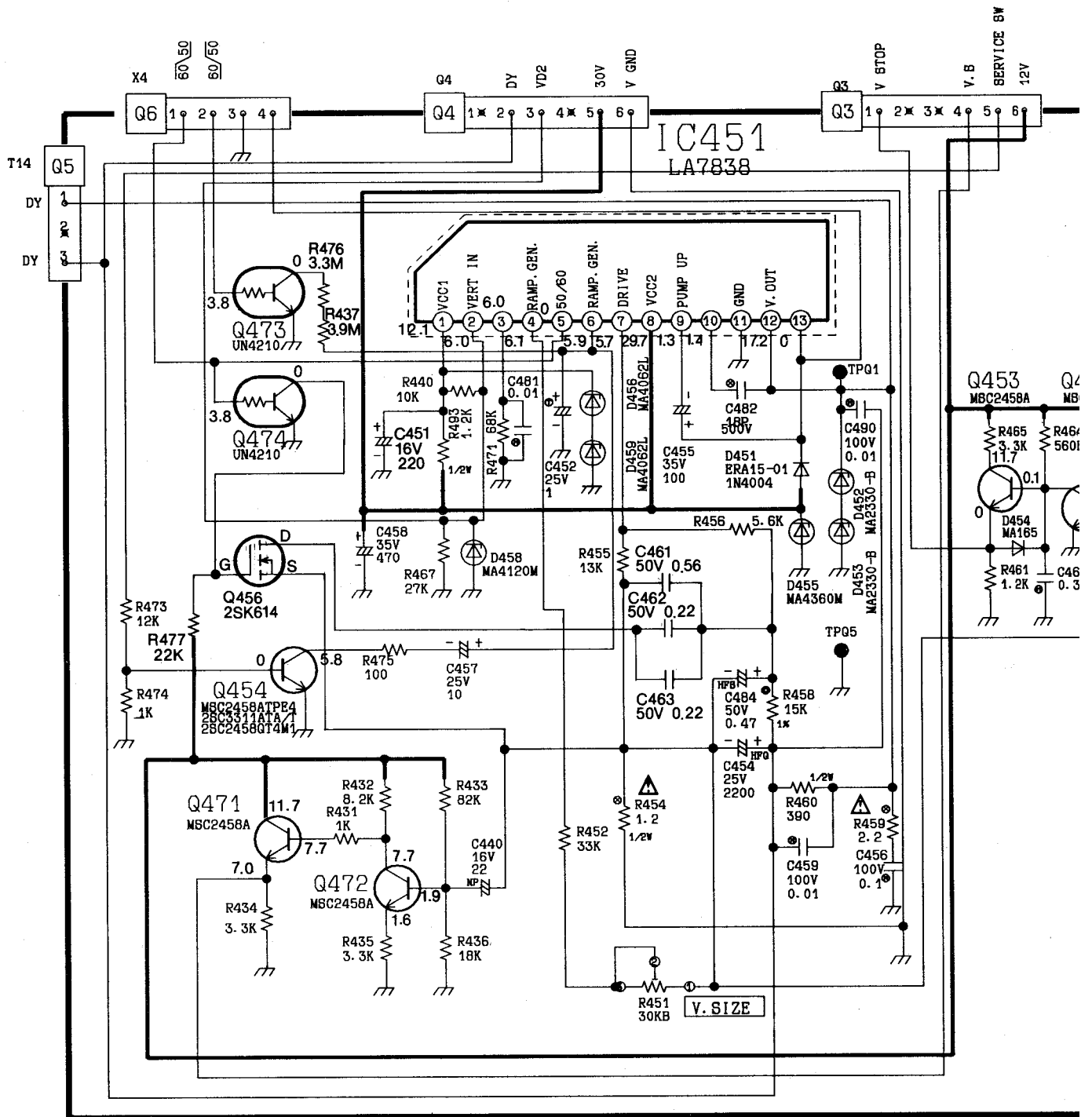


△ D-BOARD
TNP190213AZ
TNP190213BZ (For Hong Kong)

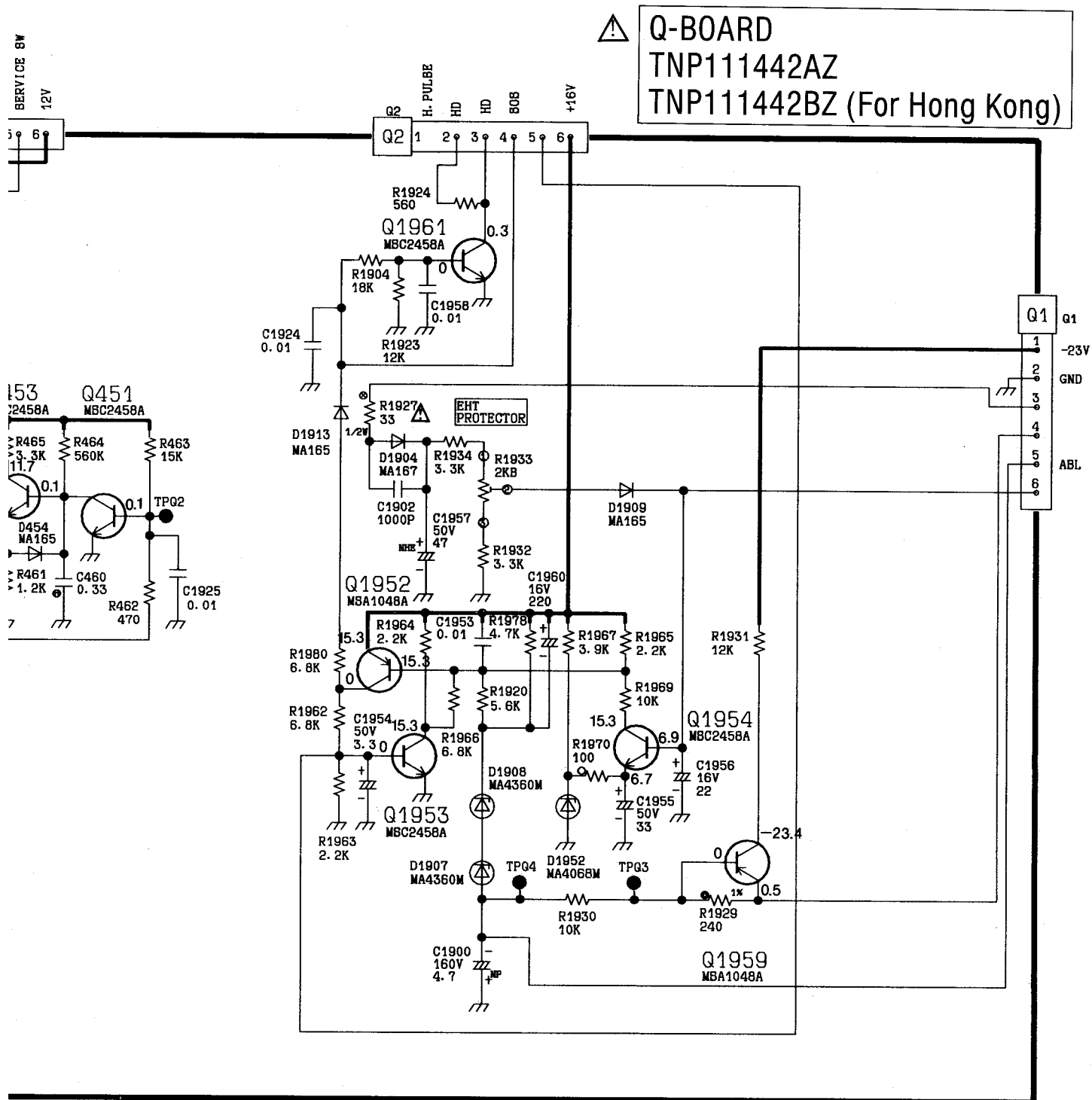


1





TC-43GF10M



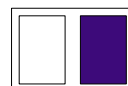
J

K

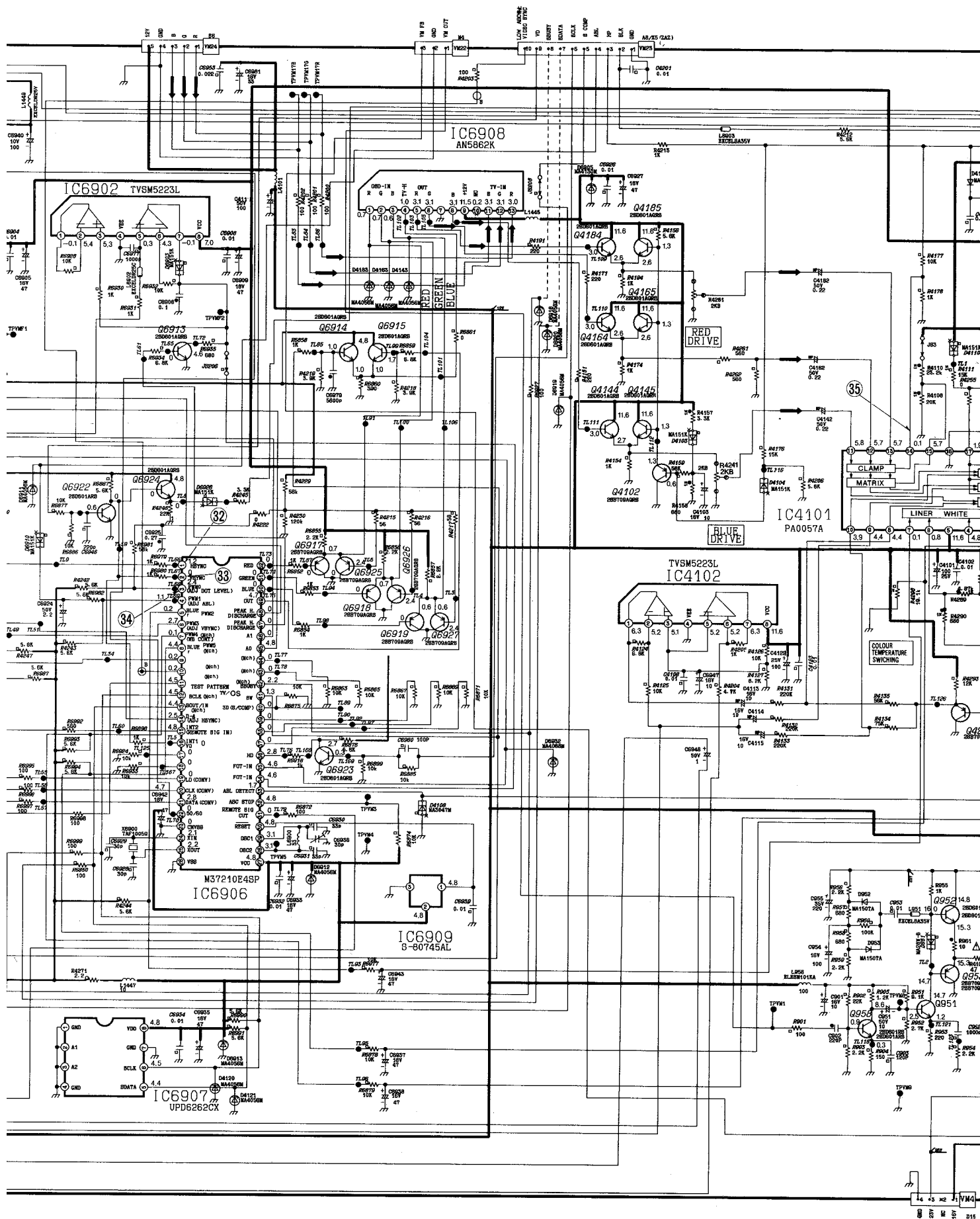
L

M

N







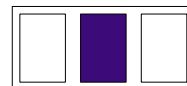
F

G

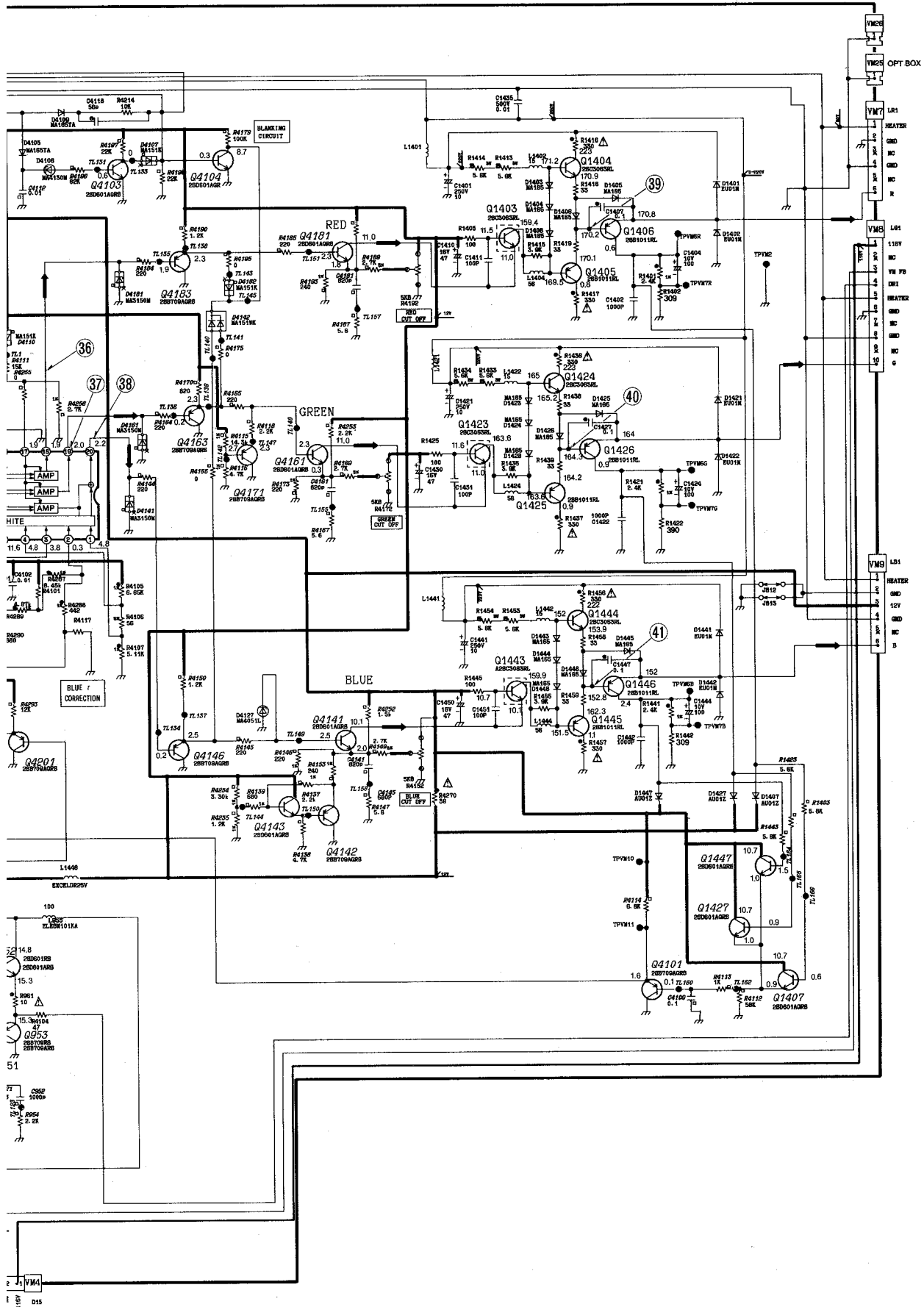
H

I

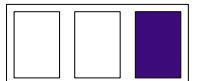
J



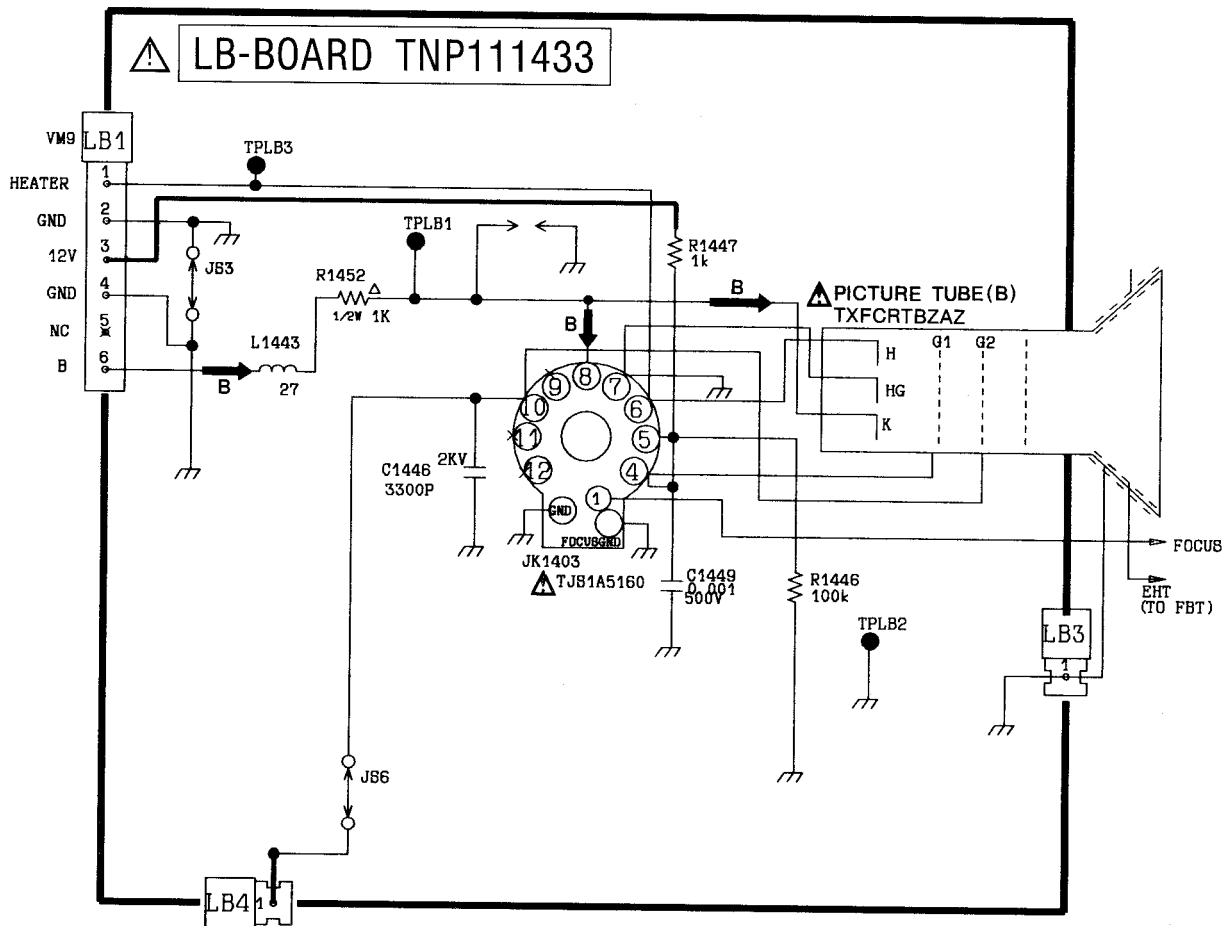
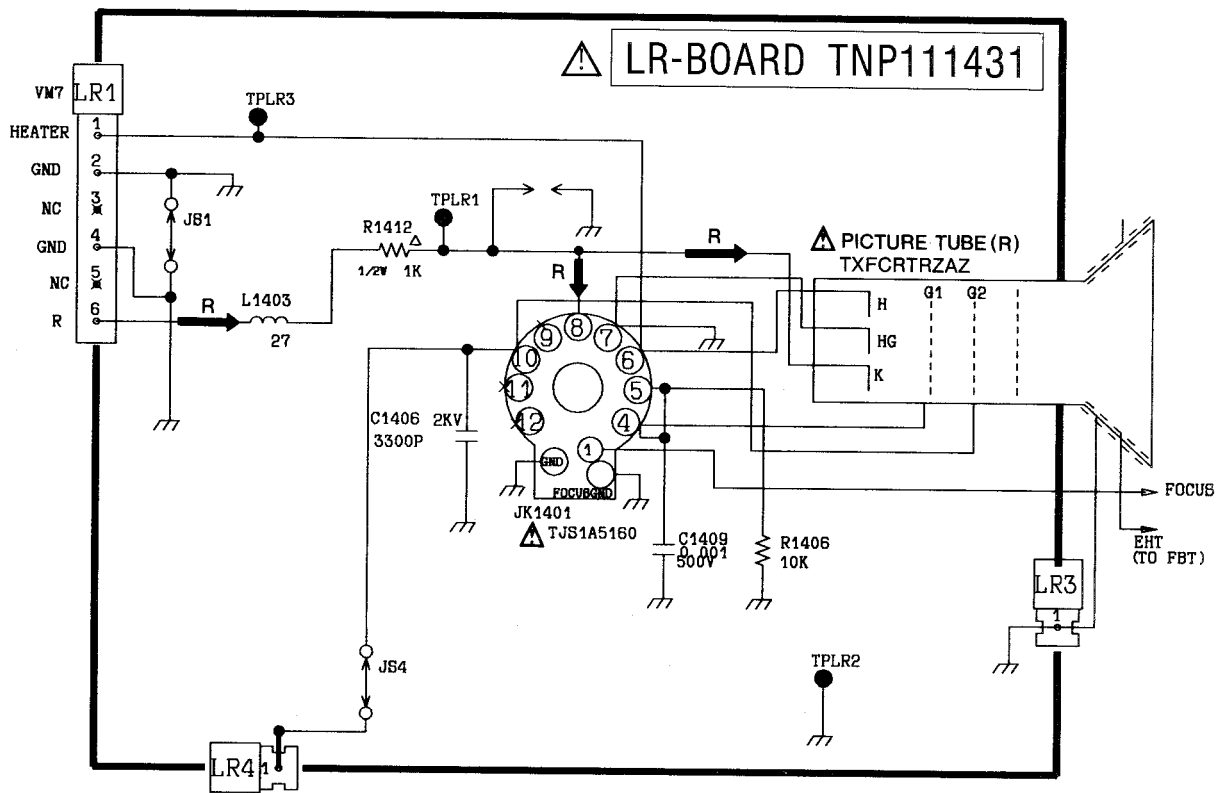
TC-43GF10M



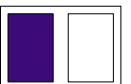
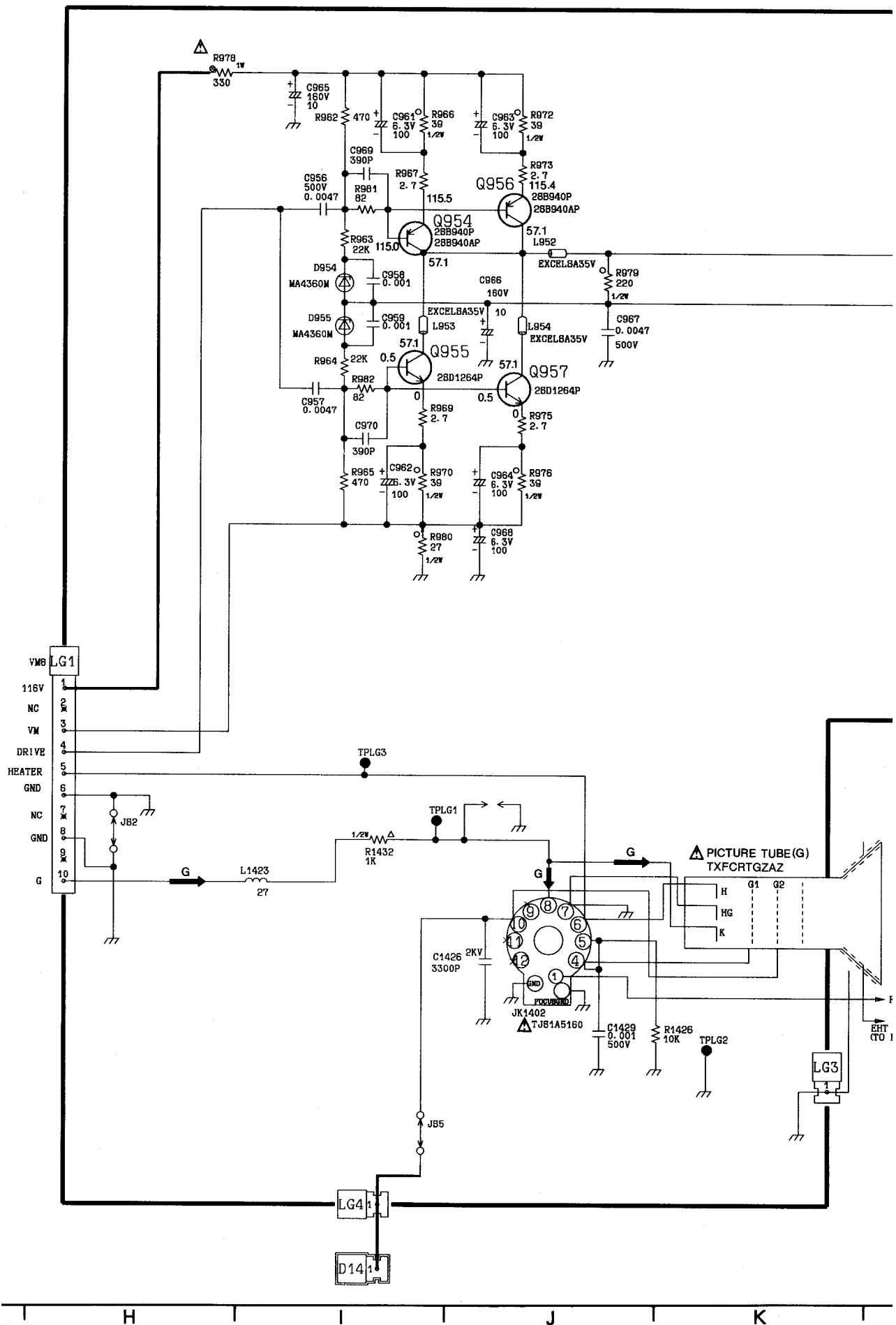
N



TC-43GF10M

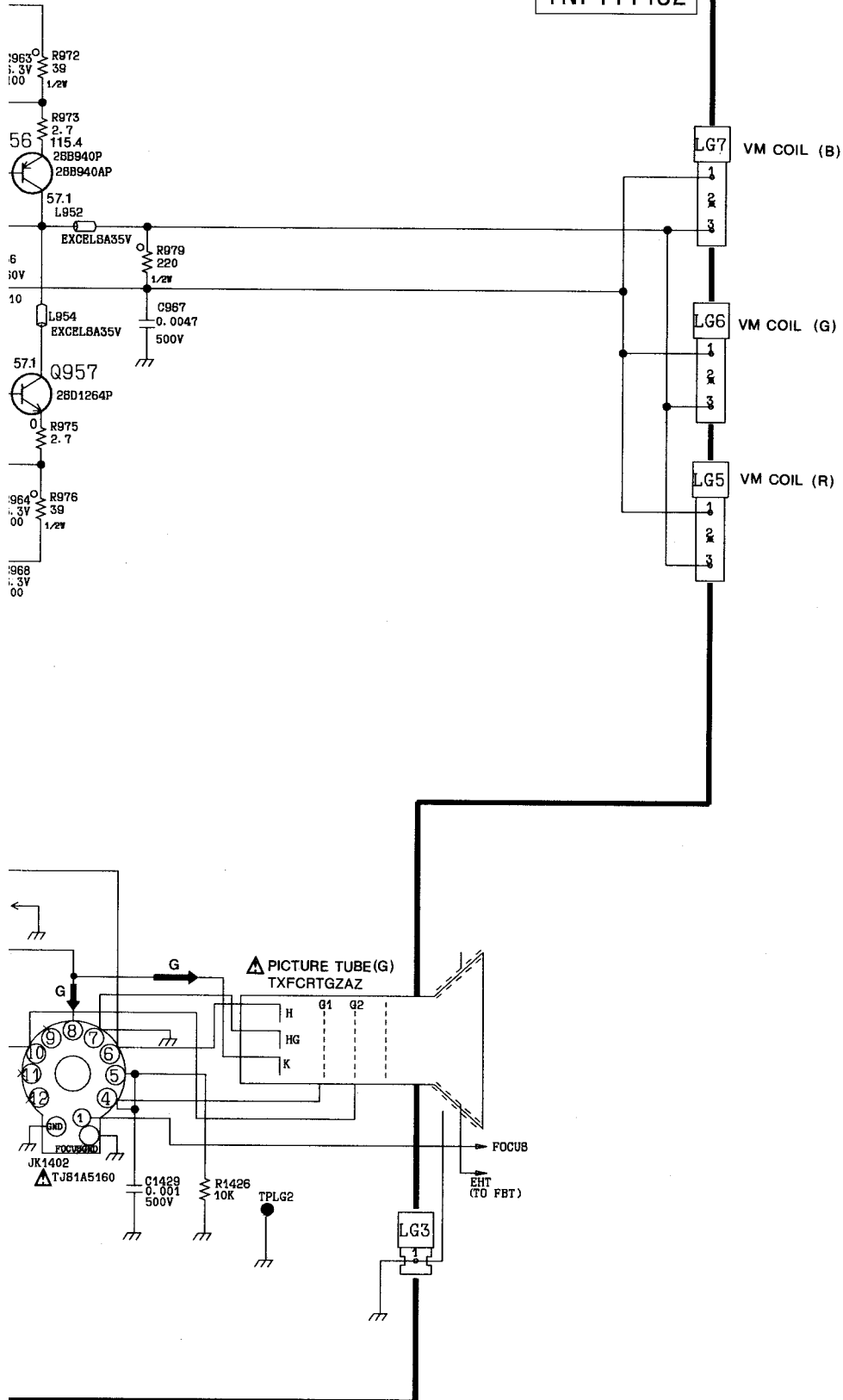


TC-43GF10M

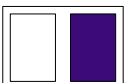


TC-43GF10M

△ LG-BOARD
TNP111432



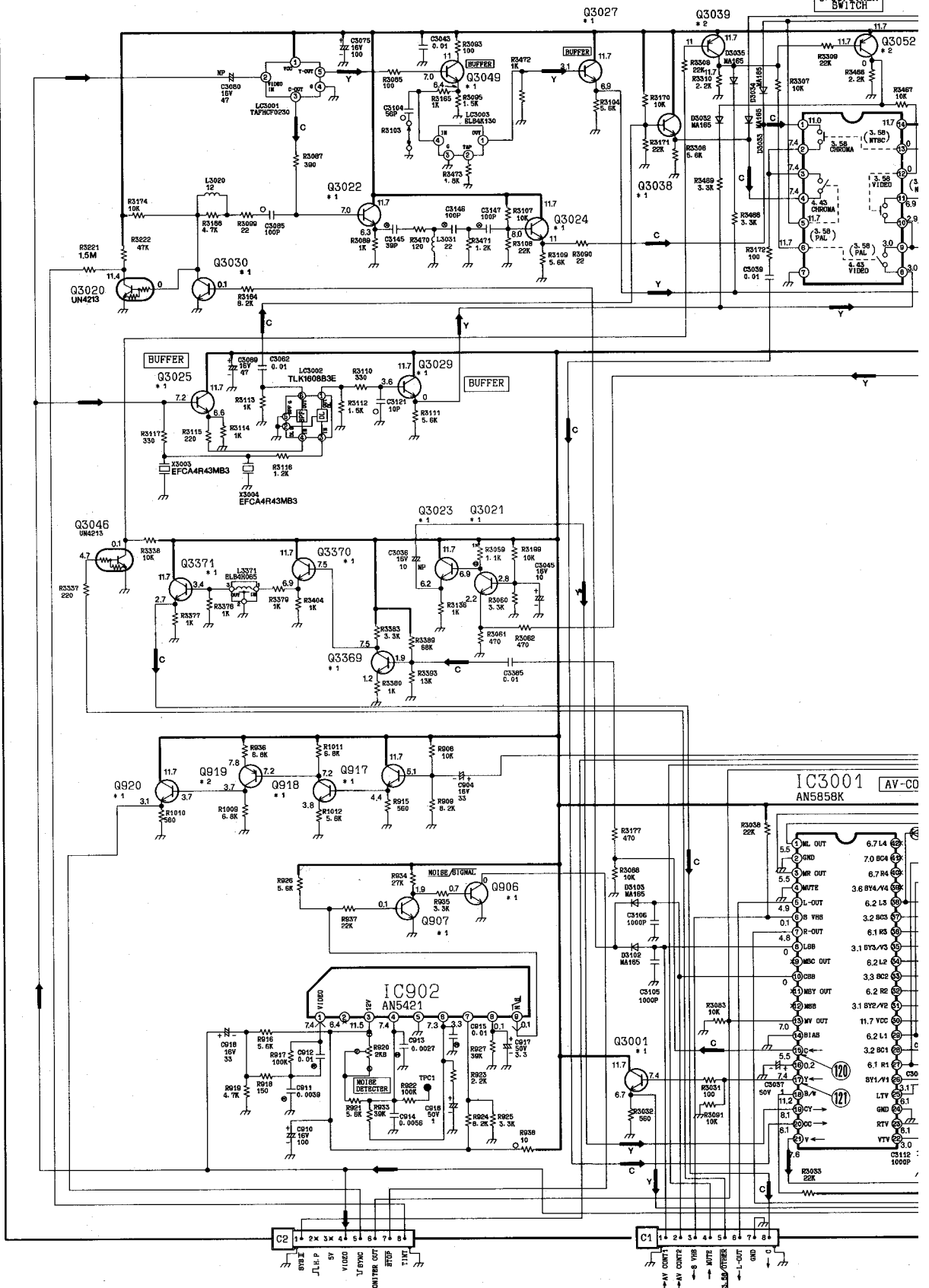
J I K L M



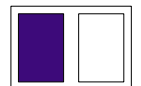
△ C-BBOARD
TNP107929AH

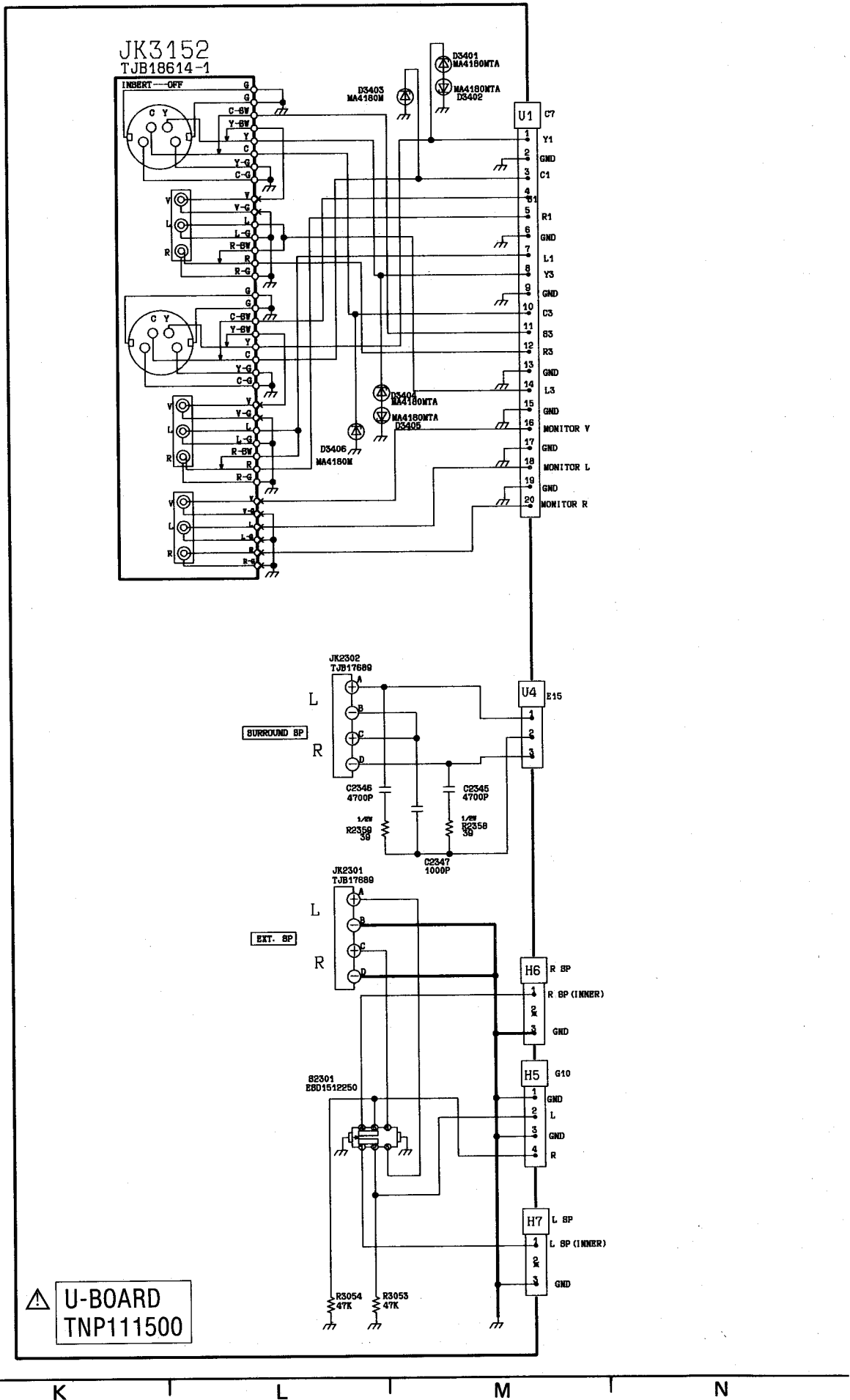
IC3003
MC14066BCP
MN4066BP
HEF4066BP

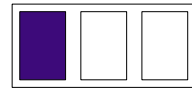
3.58 OTHER
SWITCH

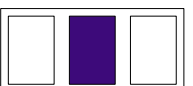
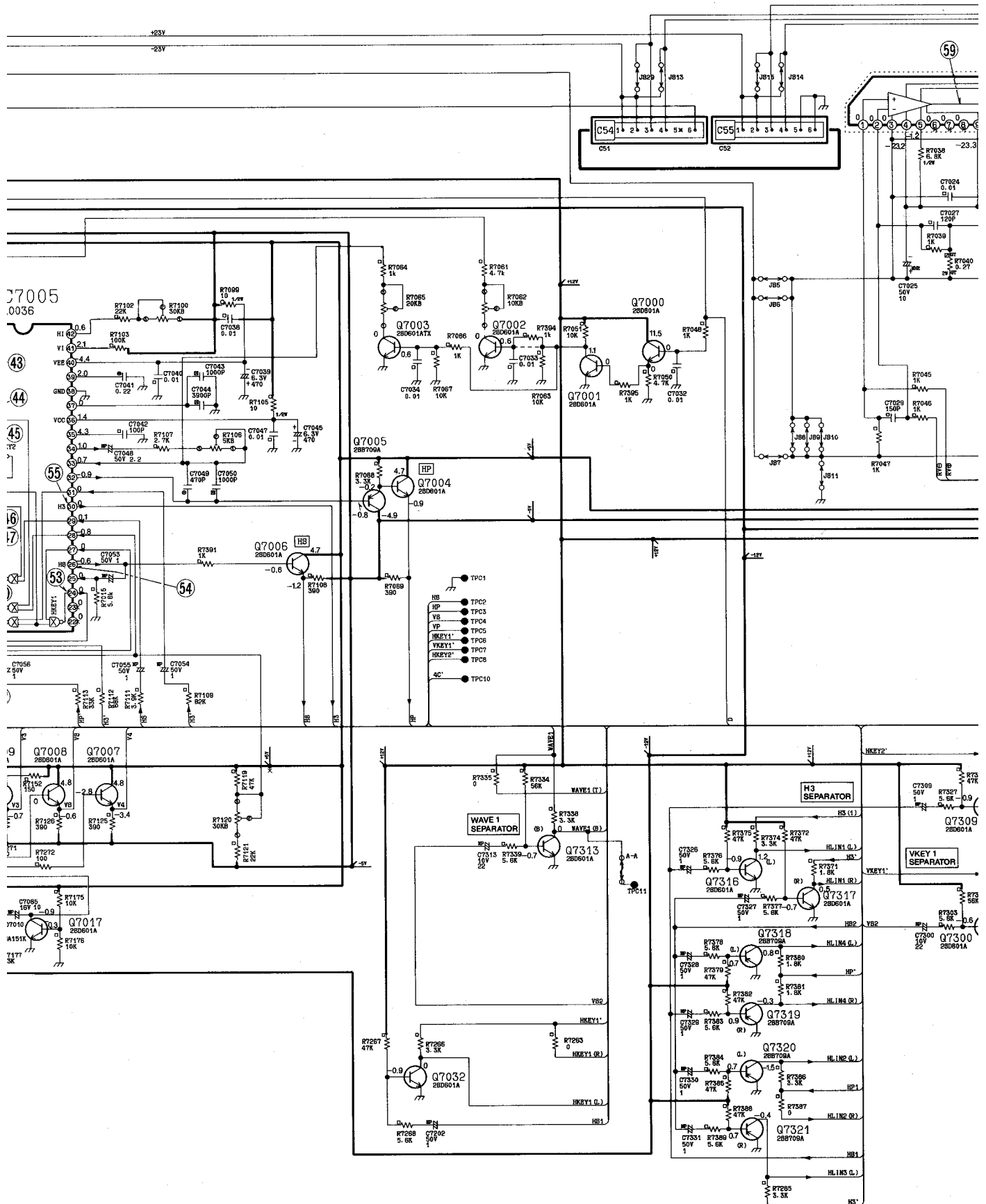


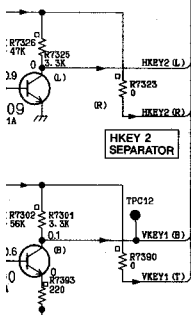
IC3001 AV-CO
AN5858K



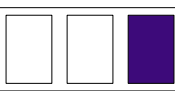








M



6

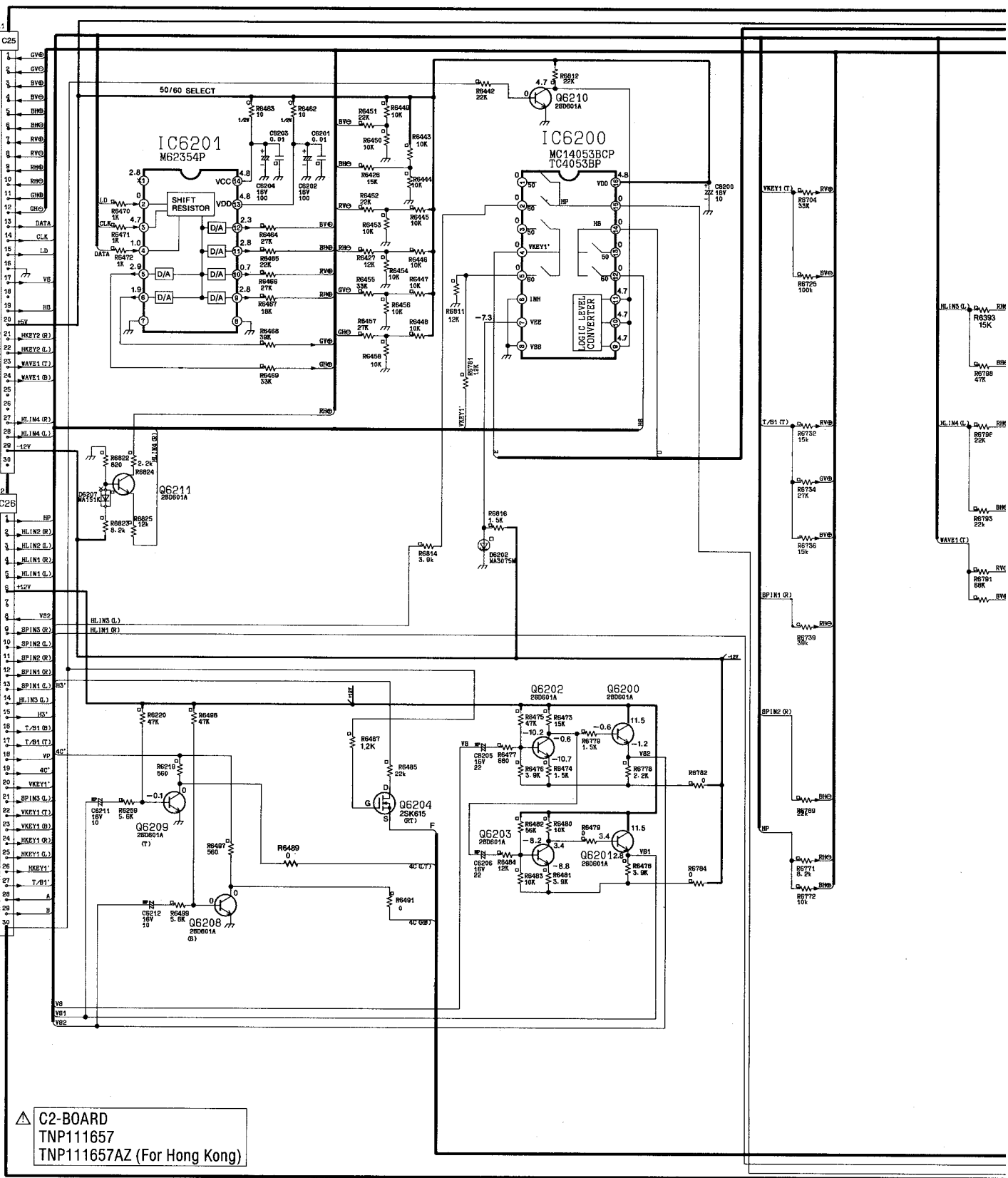
5

4

3

2

1



△ C2-BOARD
TNP11657
TNP11657AZ (For Hong Kong)

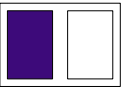
A

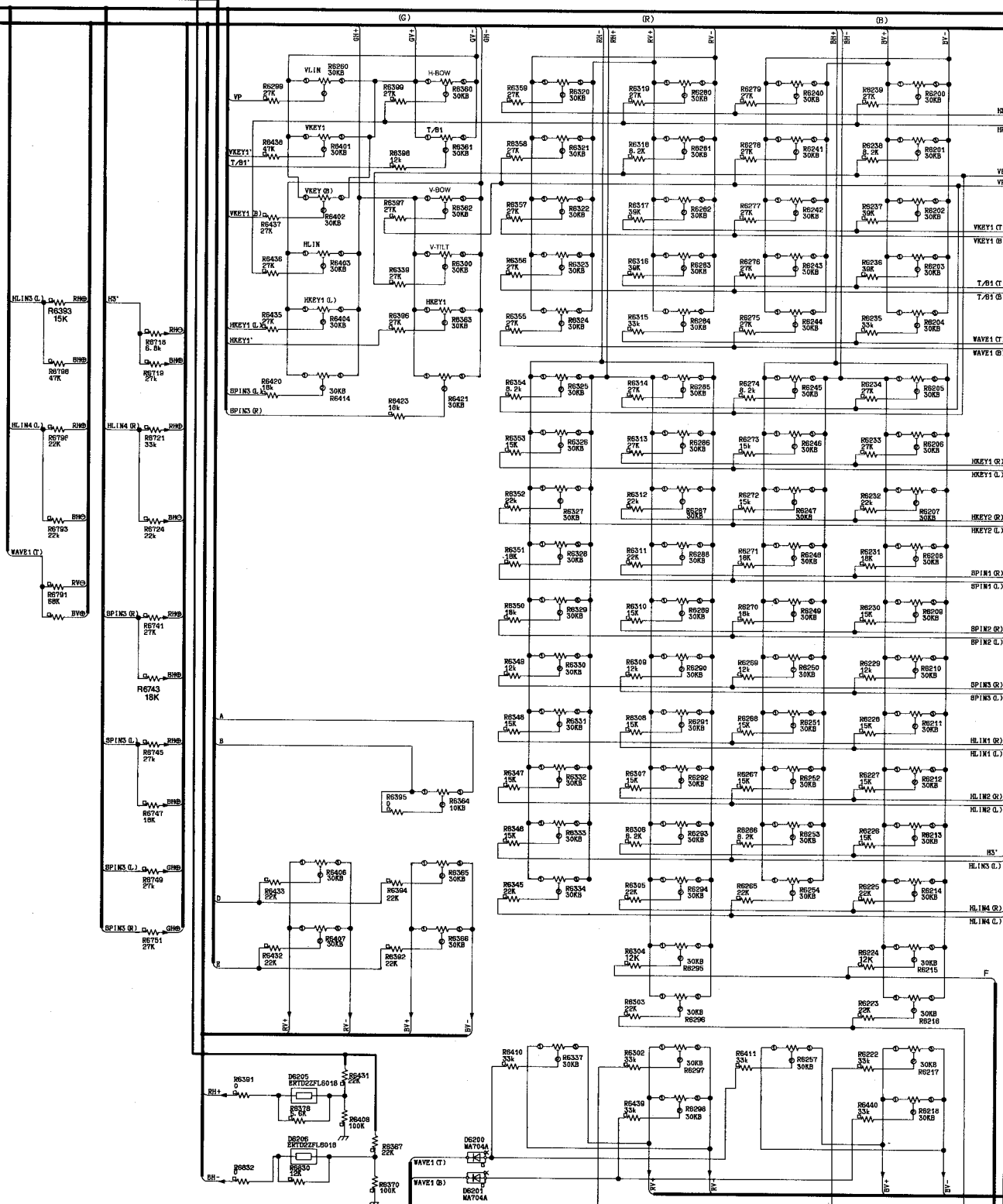
B

C

D

E

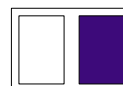


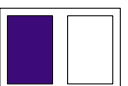
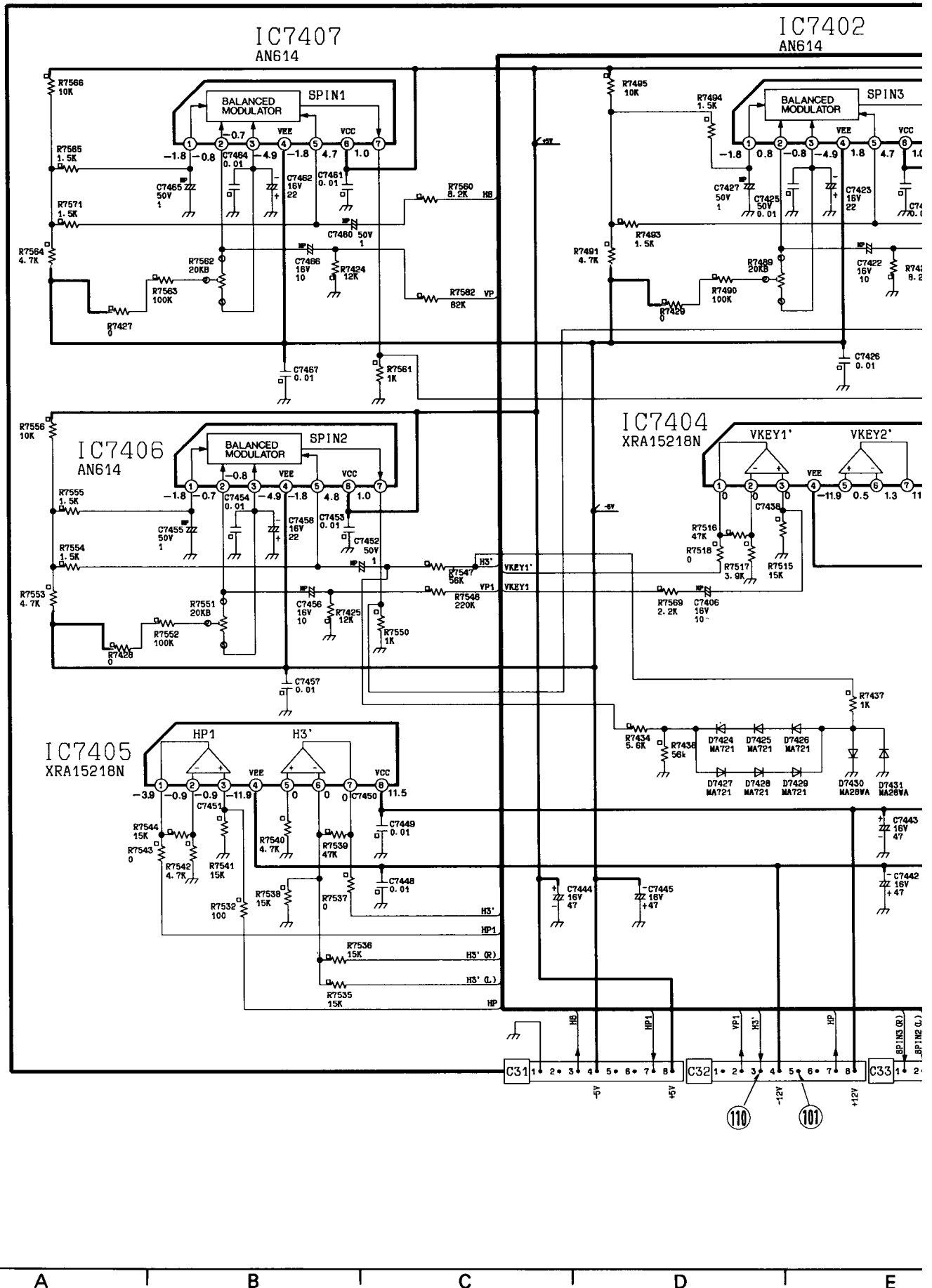


E

F

G

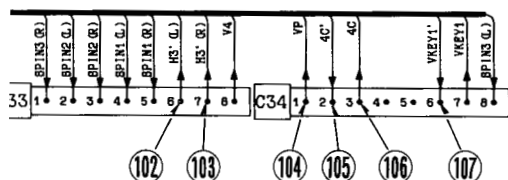
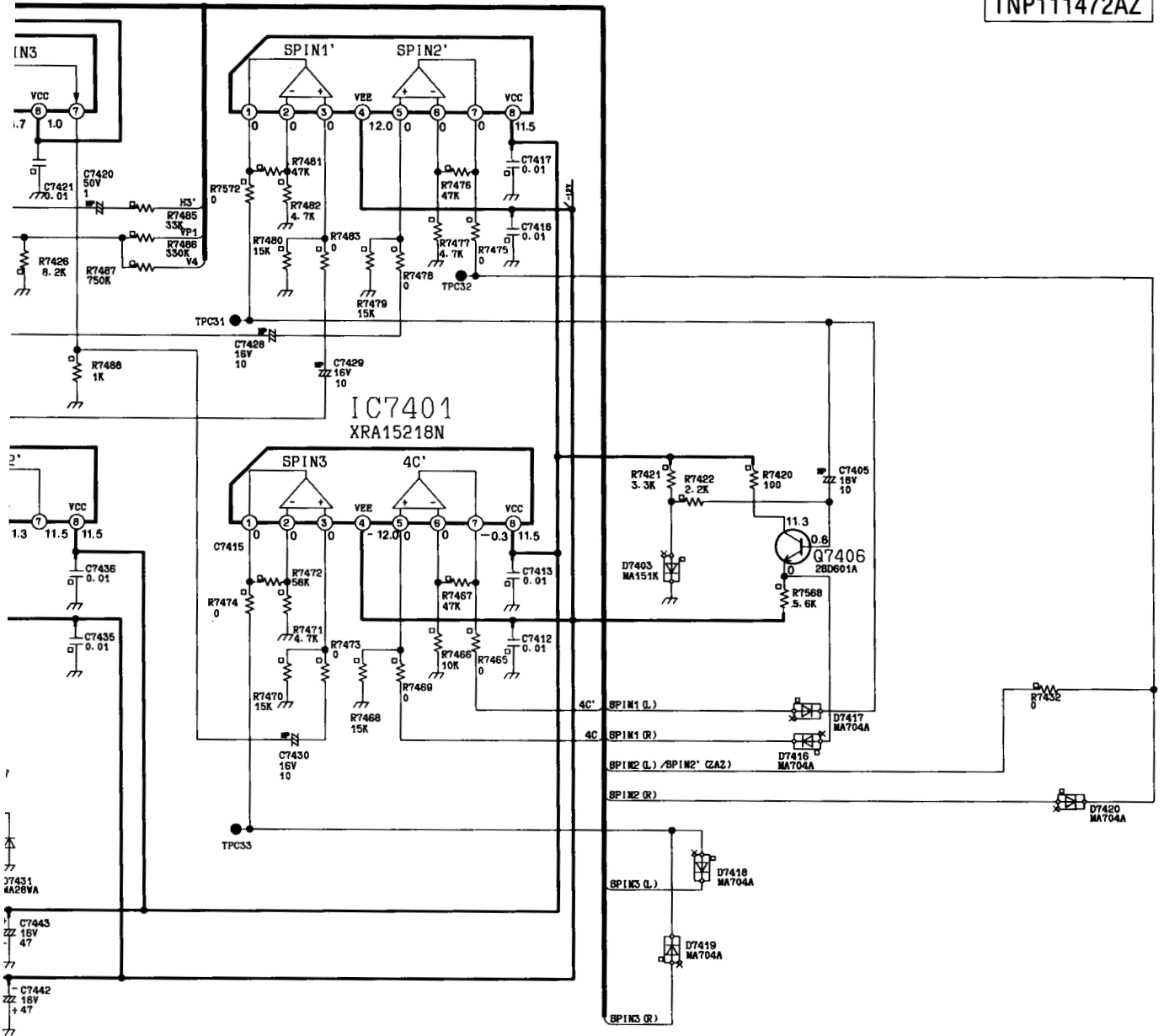
H

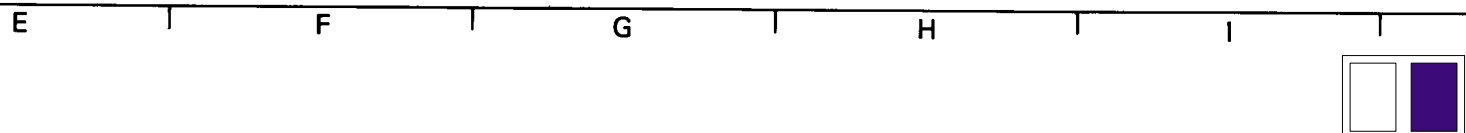


TC-43GF10M

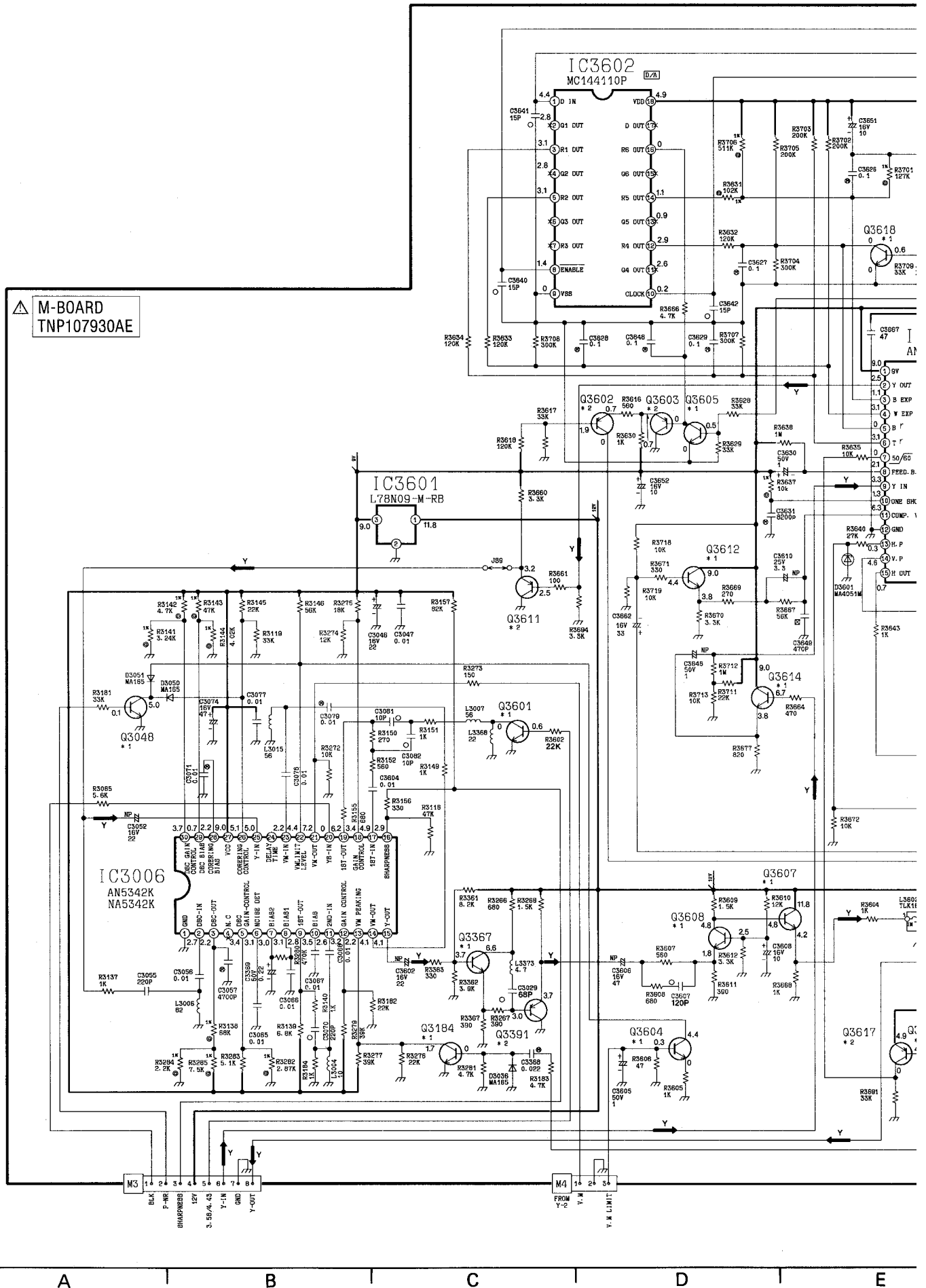
IC7400
XRA15218N

△ C3-BOARD
TNP111472AZ

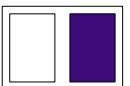
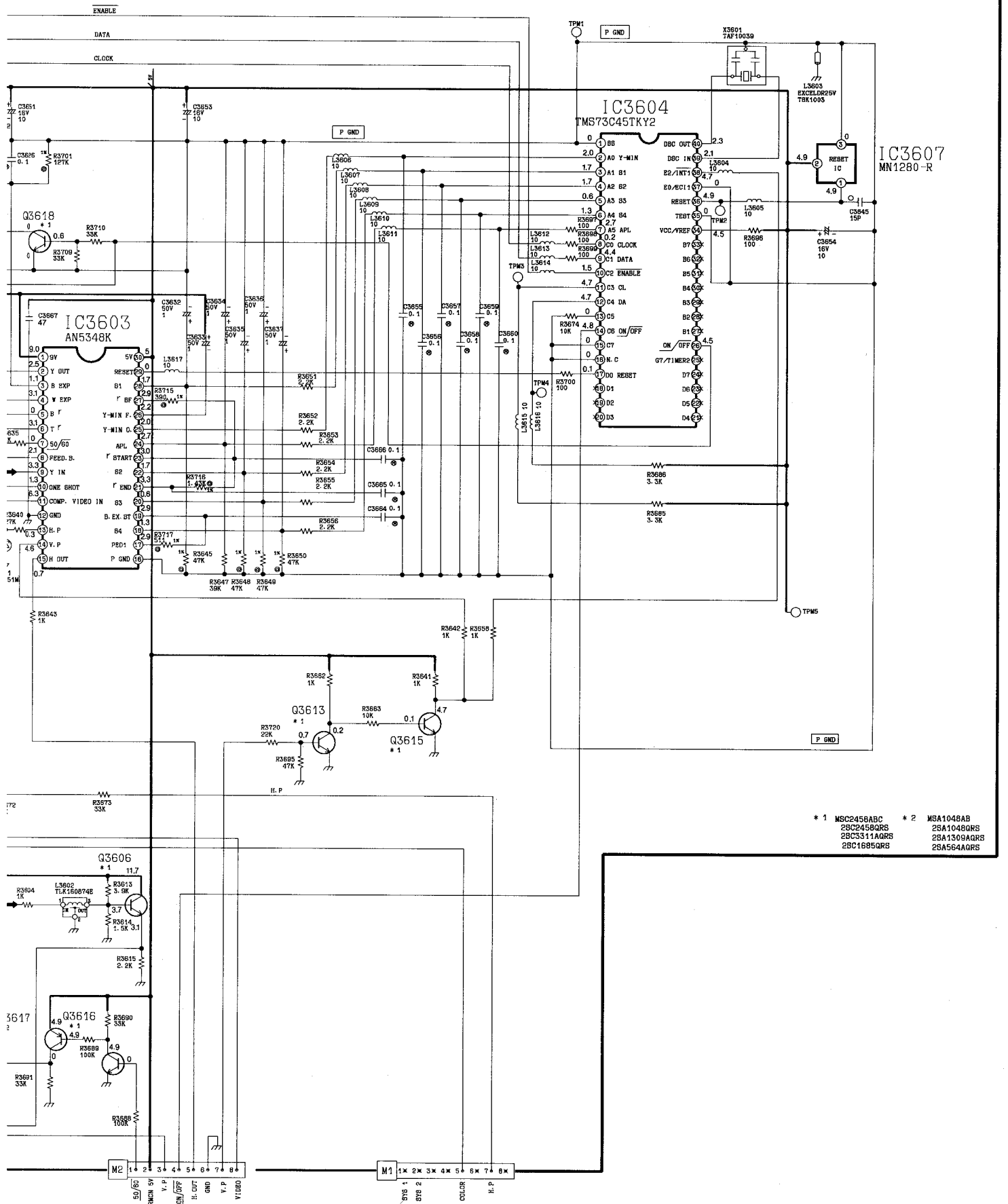




 M-BOARD
TNP107930AE



TC-43GF10M



6

5

4

3

2

1

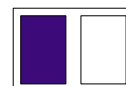
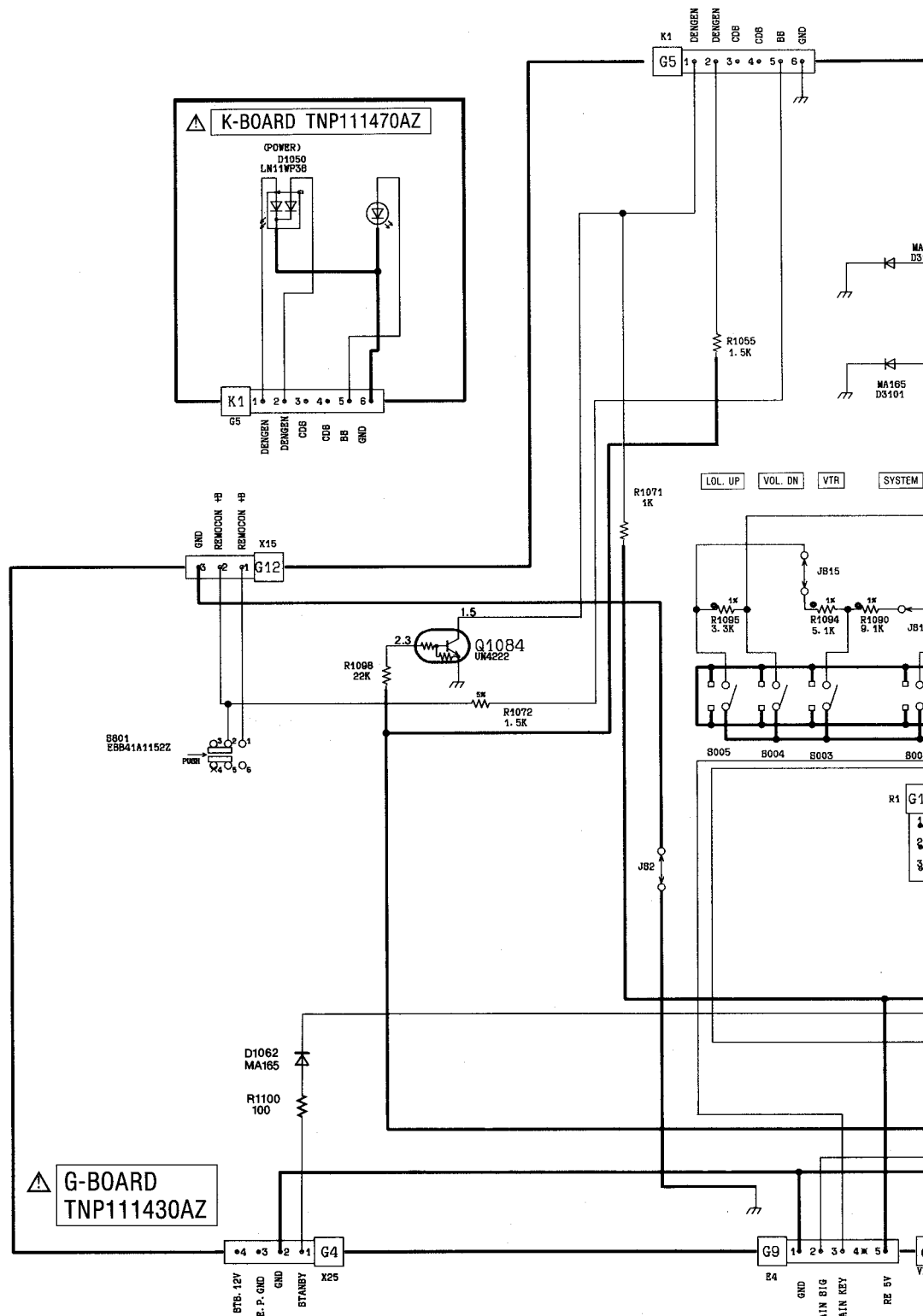
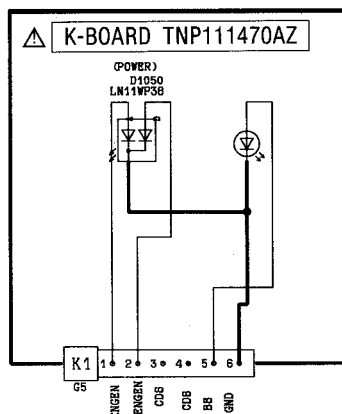
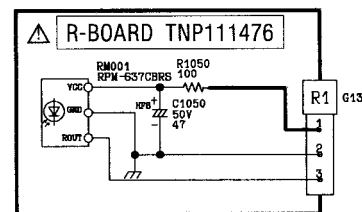
A

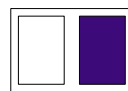
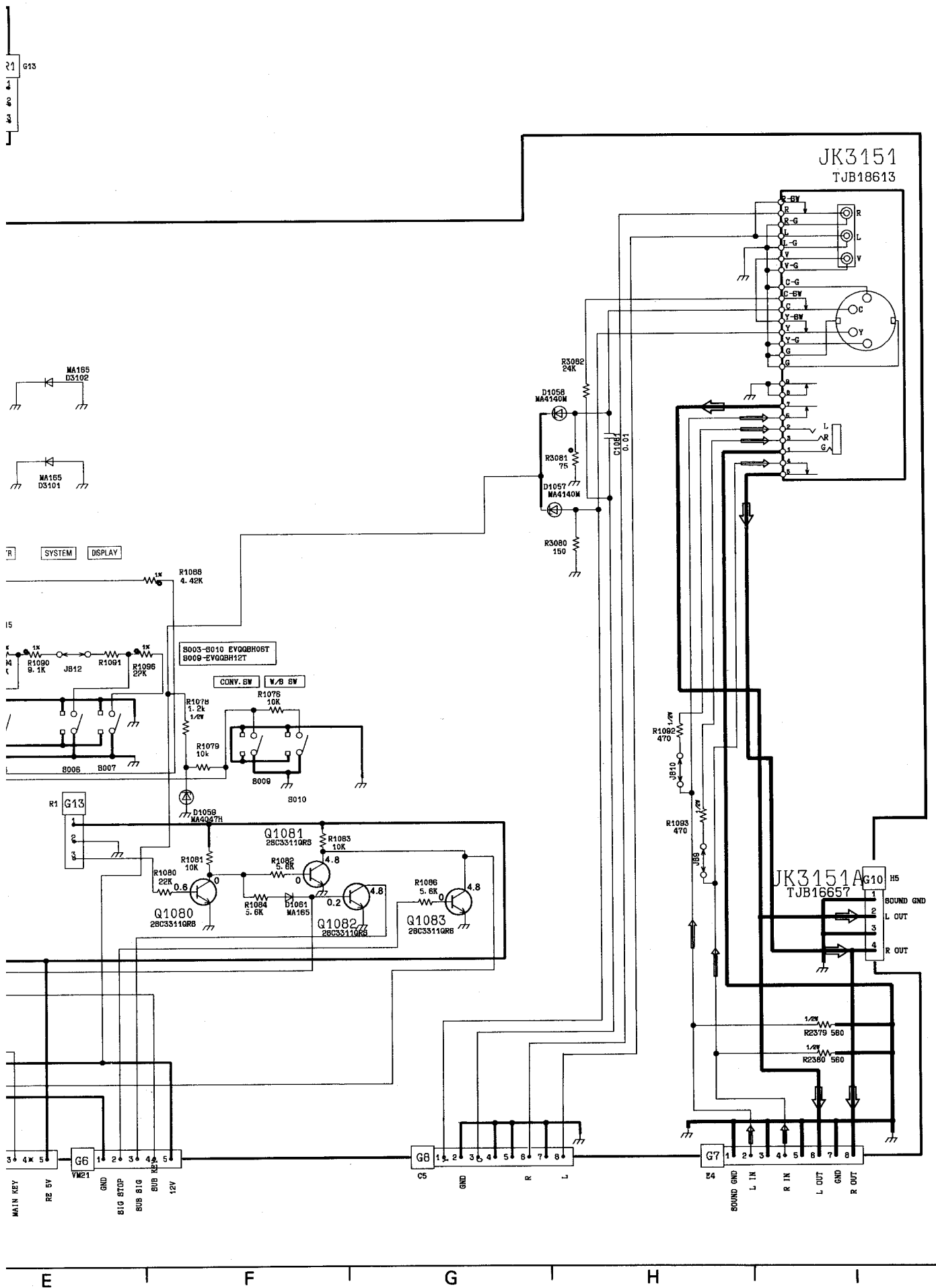
B

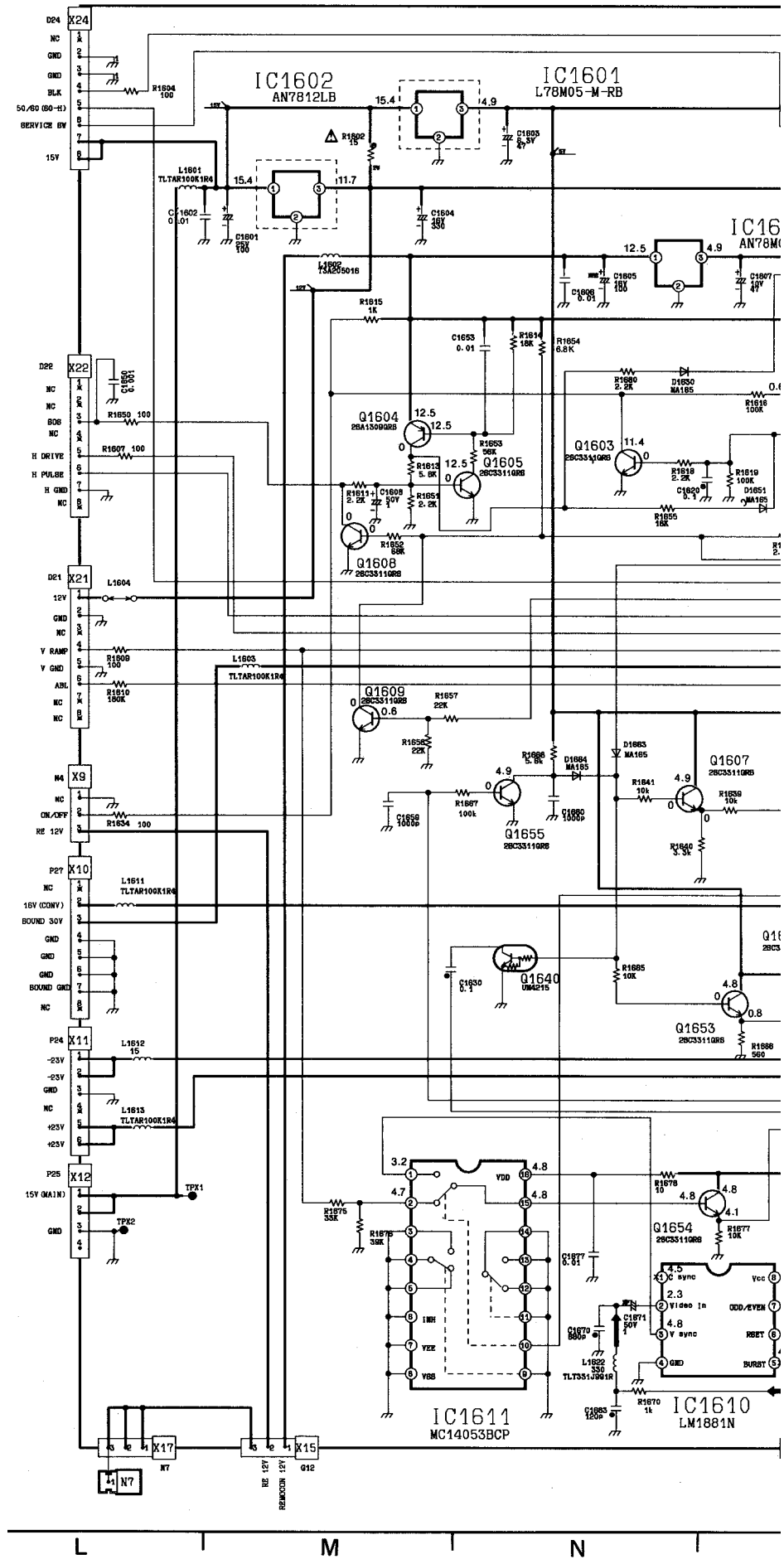
C

D

E







TC-43GF10M

6

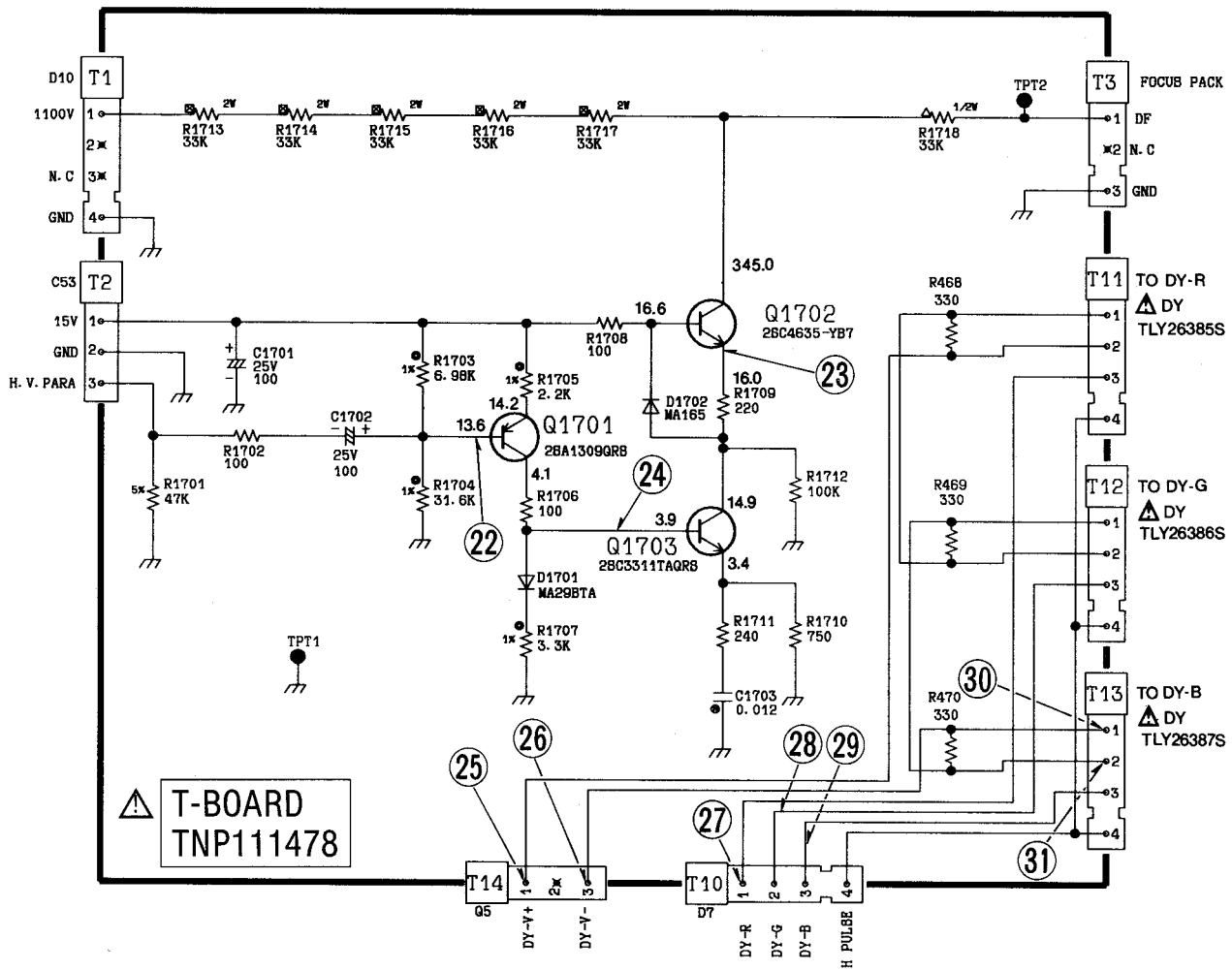
5

4

3

2

1



A








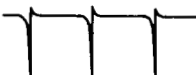







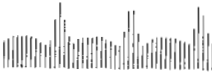
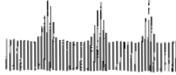

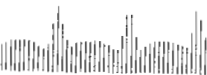
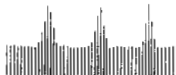










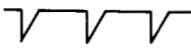




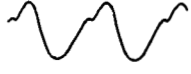
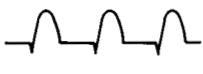
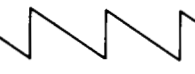






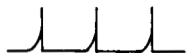
B






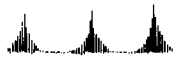







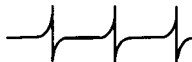


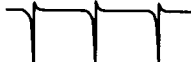


















C

D

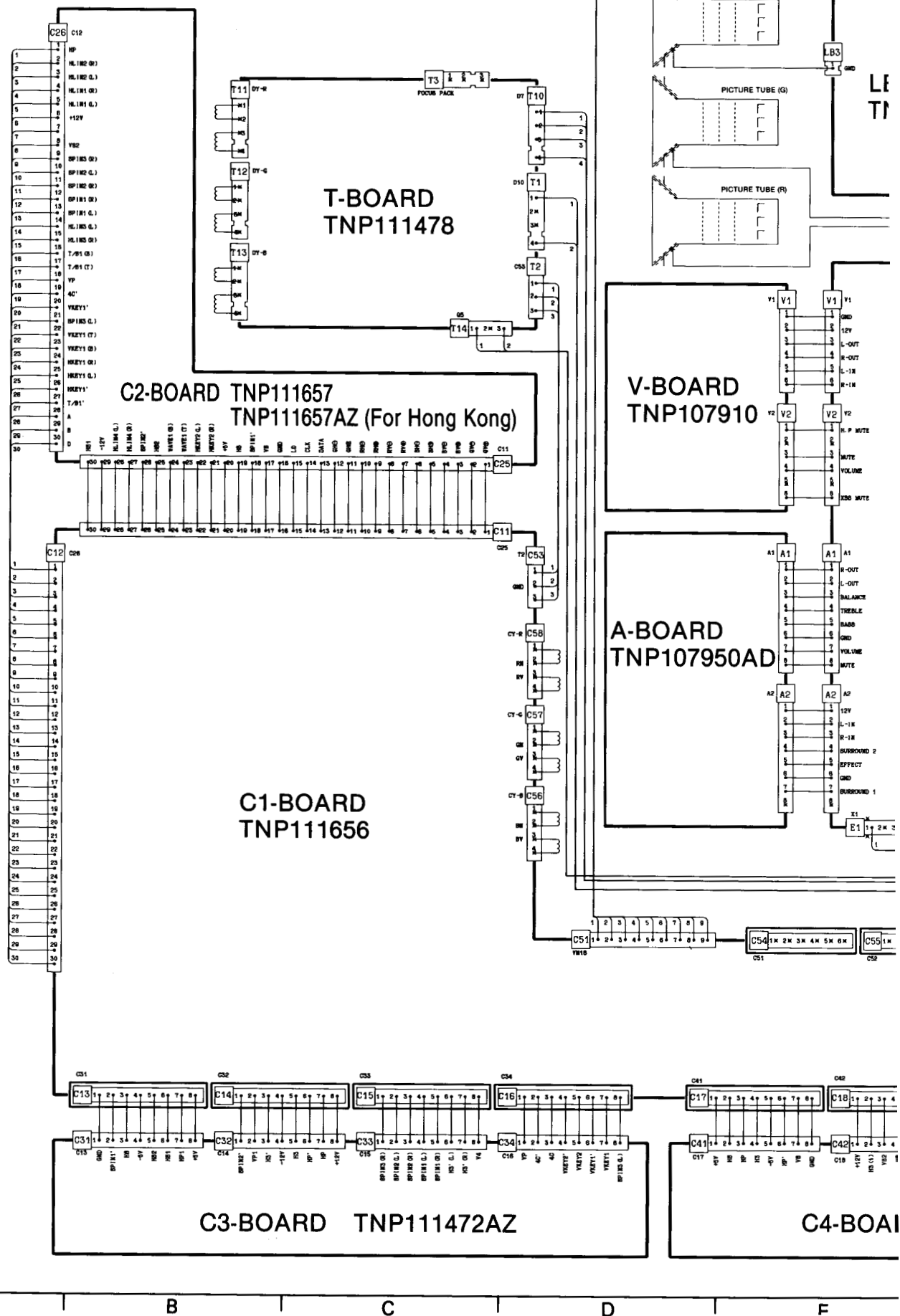
Waveform Pattern Table

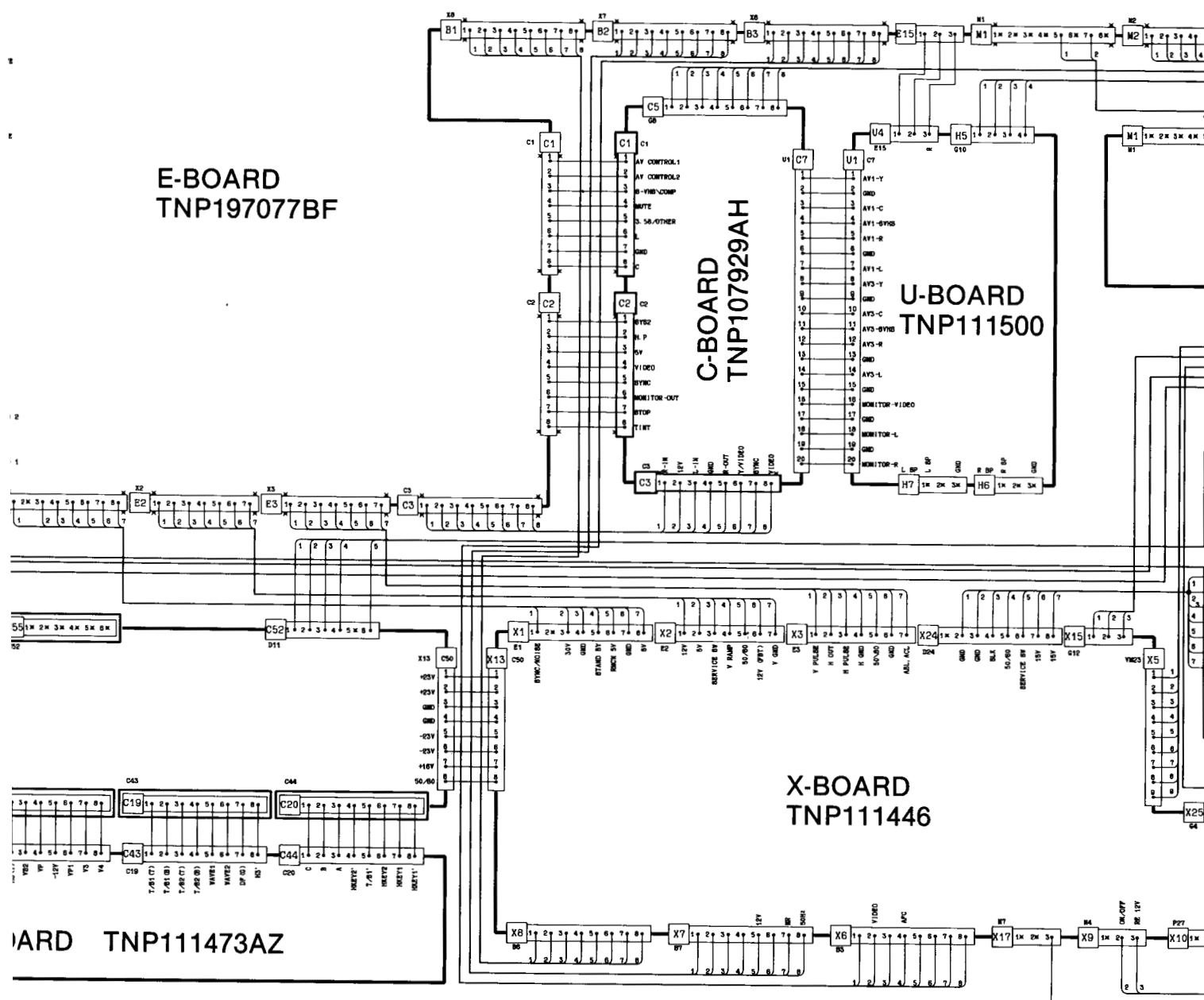
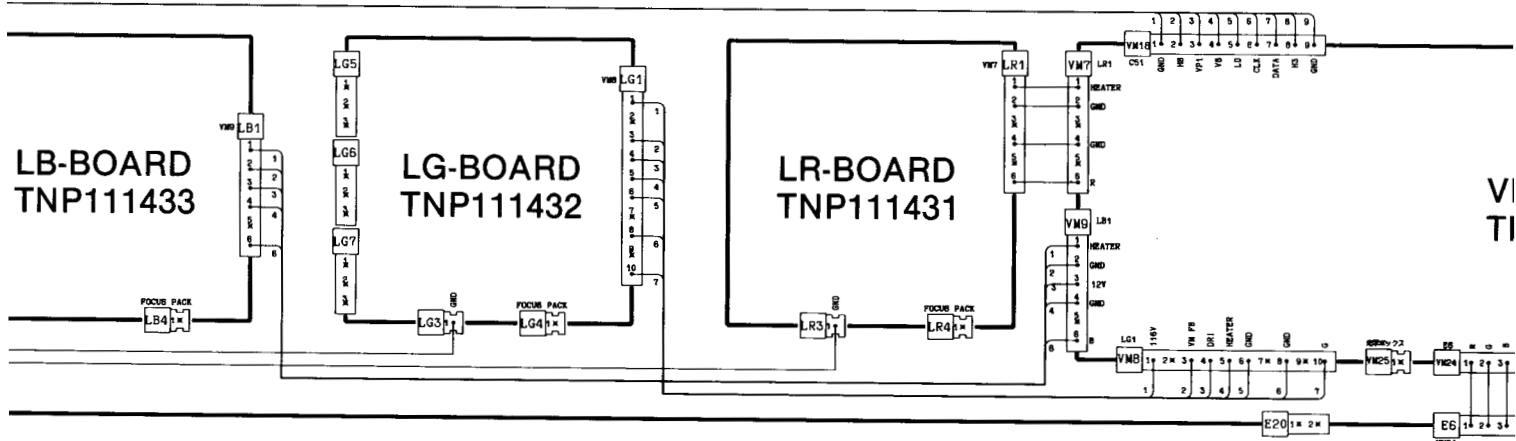
D-BOARD				
① 17.5Vp-p (20µs)	② 190Vp-p (20µs)	③ 1.8Vp-p (20µs)	④ 22Vp-p (20µs)	⑤ 140Vp-p (20µs)
⑥ 1.5Vp-p (20µs)	⑦ 28Vp-p (20µs)	⑧ 3.4Vp-p (20µs)	⑨ 0.4Vp-p (20µs)	⑩ 6.4Vp-p (5ms)
⑪ 4.4Vp-p (5ms)	⑫ 7.4Vp-p (5ms)			
E-BOARD				
⑬ 4Vp-p (20µs)	⑭ 3.8Vp-p (20µs)	⑮ 3.8Vp-p (20µs)	⑯ 1.2Vp-p (20µs)	⑰ 2.5Vp-p (20µs)
⑱ 1.2Vp-p (20µs)	⑲ 10Vp-p (5ms)	⑳ 6Vp-p (20µs)	㉑ 0.8Vp-p (20µs)	
T-BOARD				
㉒ 4Vp-p (20µs)	㉓ 0.68Vp-p (20µs)	㉔ 5.4Vp-p (20µs)	㉕ 52Vp-p (5ms)	㉖ 3.8Vp-p (5ms)
㉗ 219Vp-p (5ms)	㉘ 219Vp-p (5ms)	㉙ 219Vp-p (5ms)	㉚ 4.1Vp-p (5ms)	㉛ 21Vp-p (5ms)
VM-BOARD				
㉜ 5.0Vp-p (20µs)	㉝ 5.1Vp-p (5ms)	㉞ 4.7Vp-p (10µs)	㉟ 2.0Vp-p (20µs)	㊱ 2.0Vp-p (20µs)
㊲ 1.8Vp-p (20µs)	㊳ 2.8Vp-p (20µs)	㊴ 129Vp-p (20µs)	㊵ 123Vp-p (20µs)	㊶ 156Vp-p (20µs)

C1-BOARD				
<p>④②</p>  <p>3.9Vp-p (20μs)</p>	<p>④③</p>  <p>2.9Vp-p (5ms)</p>	<p>④④</p>  <p>2.4Vp-p (5ms)</p>	<p>④⑤</p>  <p>1.8Vp-p (5ms)</p>	<p>④⑥</p>  <p>2.2Vp-p (5ms)</p>
<p>④⑦</p>  <p>1.8Vp-p (5ms)</p>	<p>④⑧</p>  <p>2.0Vp-p (20μs)</p>	<p>④⑨</p>  <p>1.8Vp-p (20μs)</p>	<p>⑤⑩</p>  <p>1.0Vp-p (5ms)</p>	<p>⑤⑪</p>  <p>0.7Vp-p (5ms)</p>
<p>⑤②</p>  <p>0.9Vp-p (5ms)</p>	<p>⑤③</p>  <p>1.3Vp-p (5ms)</p>	<p>⑤④</p>  <p>2.8Vp-p (20μs)</p>	<p>⑤⑤</p>  <p>2.6Vp-p (20μs)</p>	<p>⑤⑥</p>  <p>46Vp-p (5ms)</p>
<p>⑤⑦</p>  <p>46Vp-p (5ms)</p>	<p>⑤⑧</p>  <p>40Vp-p (5ms)</p>	<p>⑤⑨</p>  <p>42Vp-p (5ms)</p>	<p>⑥⑩</p>  <p>47Vp-p (5ms)</p>	<p>⑥⑪</p>  <p>32Vp-p (5ms)</p>
<p>⑥②</p>  <p>2.2Vp-p (5ms)</p>	<p>⑥③</p>  <p>16Vp-p (5ms)</p>	<p>⑥④</p>  <p>2.6Vp-p (20μs)</p>	<p>⑥⑤</p>  <p>8.7Vp-p (5ms)</p>	<p>⑥⑥</p>  <p>5.5Vp-p (5ms)</p>
<p>⑥⑦</p>  <p>11Vp-p (5ms)</p>	<p>⑥⑧</p>  <p>8.7Vp-p (5ms)</p>	<p>⑥⑨</p>  <p>11.5Vp-p (20μs)</p>	<p>⑦⑩</p>  <p>7Vp-p (5ms)</p>	<p>⑦⑪</p>  <p>3.5Vp-p (20μs)</p>
<p>⑦②</p>  <p>3.5Vp-p (20μs)</p>	<p>⑦③</p>  <p>13.3Vp-p (20μs)</p>	<p>⑦④</p>  <p>11.3Vp-p (20μs)</p>	<p>⑦⑤</p>  <p>11.3Vp-p (20μs)</p>	<p>⑦⑥</p>  <p>8.6Vp-p (20μs)</p>
<p>⑦⑦</p>  <p>12.3Vp-p (20μs)</p>	<p>⑦⑧</p>  <p>5.3Vp-p (20μs)</p>	<p>⑦⑨</p>  <p>9.9Vp-p (5ms)</p>	<p>⑧⑩</p>  <p>7.3Vp-p (5ms)</p>	<p>⑧⑪</p>  <p>13.3Vp-p (5ms)</p>
<p>⑧②</p>  <p>7.3Vp-p (5ms)</p>	<p>⑧③</p>  <p>7.9Vp-p (5ms)</p>	<p>⑧④</p>  <p>7.3Vp-p (5ms)</p>	<p>⑧⑤</p>  <p>4.9Vp-p (20μs)</p>	<p>⑧⑥</p>  <p>4.2Vp-p (20μs)</p>

C1-BOARD				
87  6.6Vp-p (5ms)	88  9.5Vp-p (5ms)	89  7.9Vp-p (5ms)	90  3.9Vp-p (5ms)	91  11.9Vp-p (5ms)
92  7.9Vp-p (5ms)	93  11.4Vp-p (5ms)	94  7.8Vp-p (5ms)	95  11.5Vp-p (5ms)	96  8.2Vp-p (5ms)
97  11.3Vp-p (5ms)	98  10.1Vp-p (5ms)	99  1.1Vp-p (5ms)		
C3-BOARD				
100  12.2Vp-p (20μs)	101  2.5Vp-p (20μs)	102  2.0Vp-p (20μs)	103  2.0Vp-p (20μs)	104  2.4Vp-p (5ms)
105  4.0Vp-p (5ms)	106  0.7Vp-p (5ms)	107  11.3Vp-p (5ms)		
C4-BOARD				
108  2.6Vp-p (20μs)	109  10.7Vp-p (5ms)	110  6.2Vp-p (5ms)	111  11.0Vp-p (5ms)	112  1.8Vp-p (5ms)
113  5.1Vp-p (5ms)	114  6.6Vp-p (5ms)	115  1.2Vp-p (5ms)	116  9.1Vp-p (5ms)	117  10.1Vp-p (5ms)
118  12.6Vp-p (5ms)	119  11.8Vp-p (5ms)			
C-B-BOARD				
120  0.8Vp-p (20μs)	121  1.7Vp-p (20μs)			

Interconnections





F | G | H | I | J

