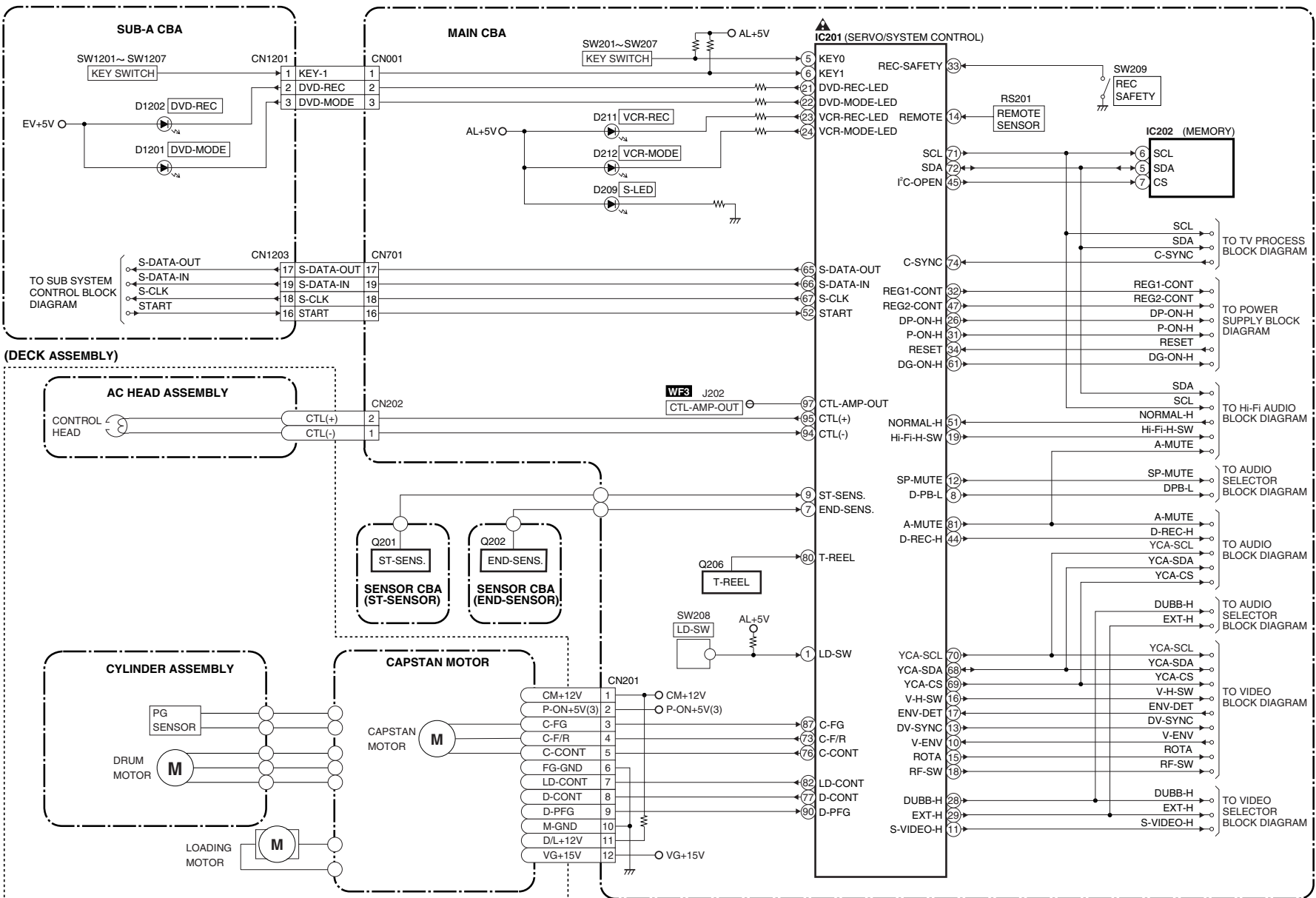
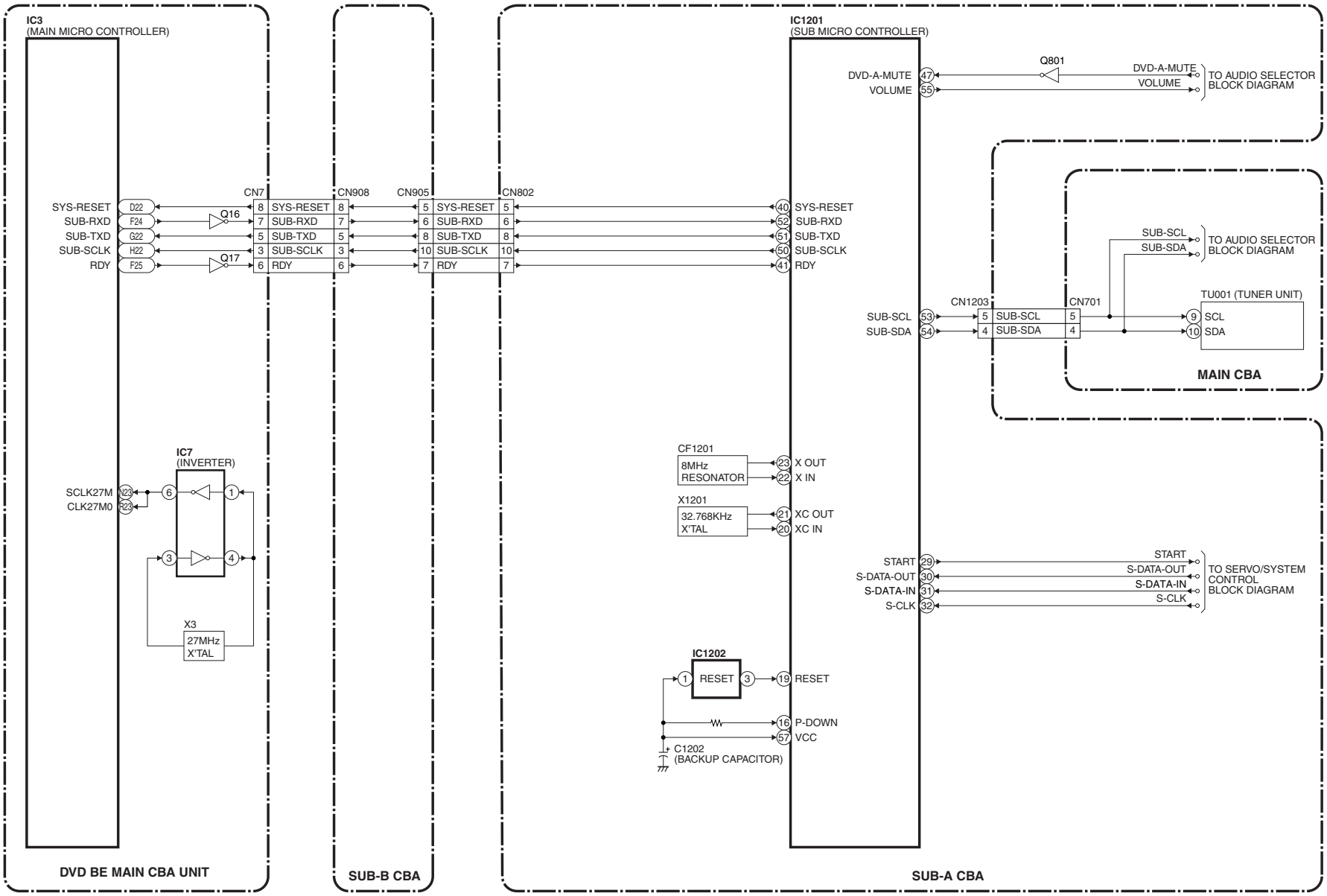


Servo / System Control Block Diagram

BLOCK DIAGRAMS



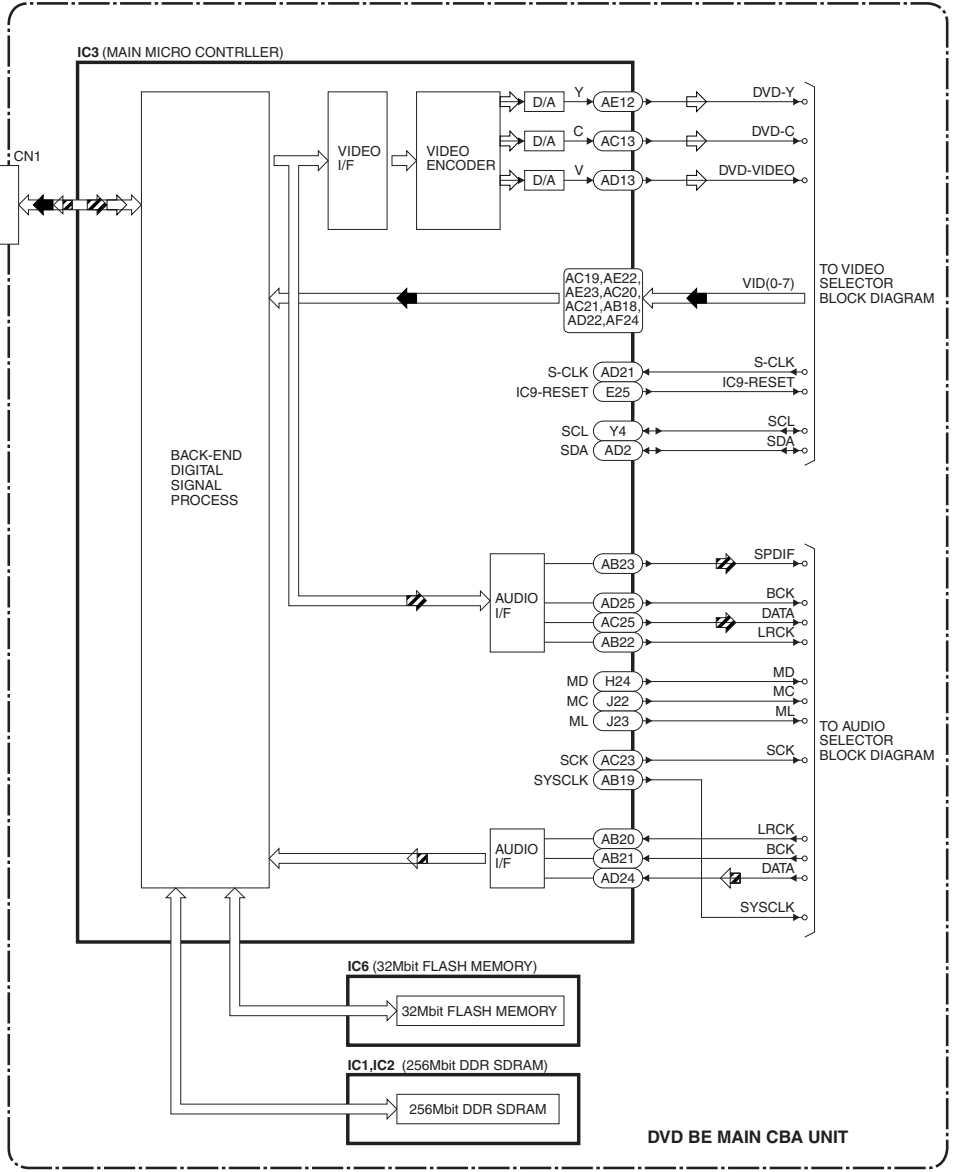
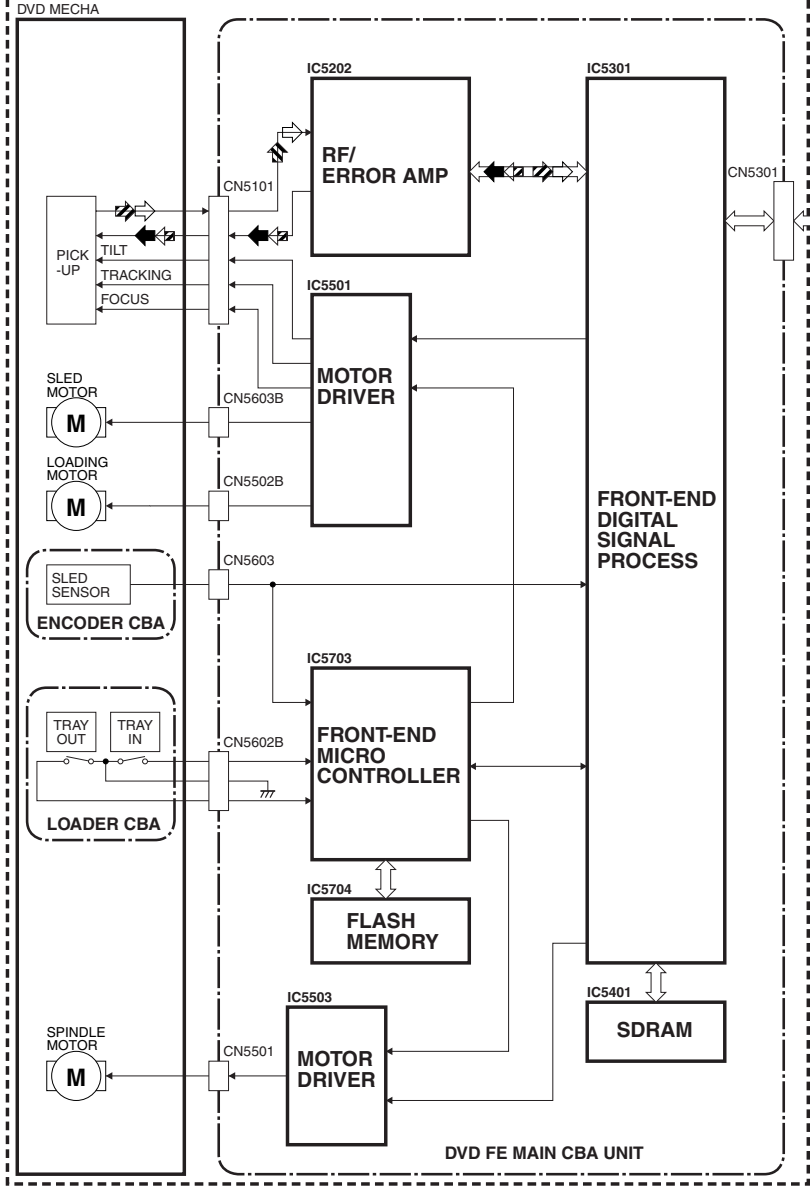
Sub System Control Block Diagram



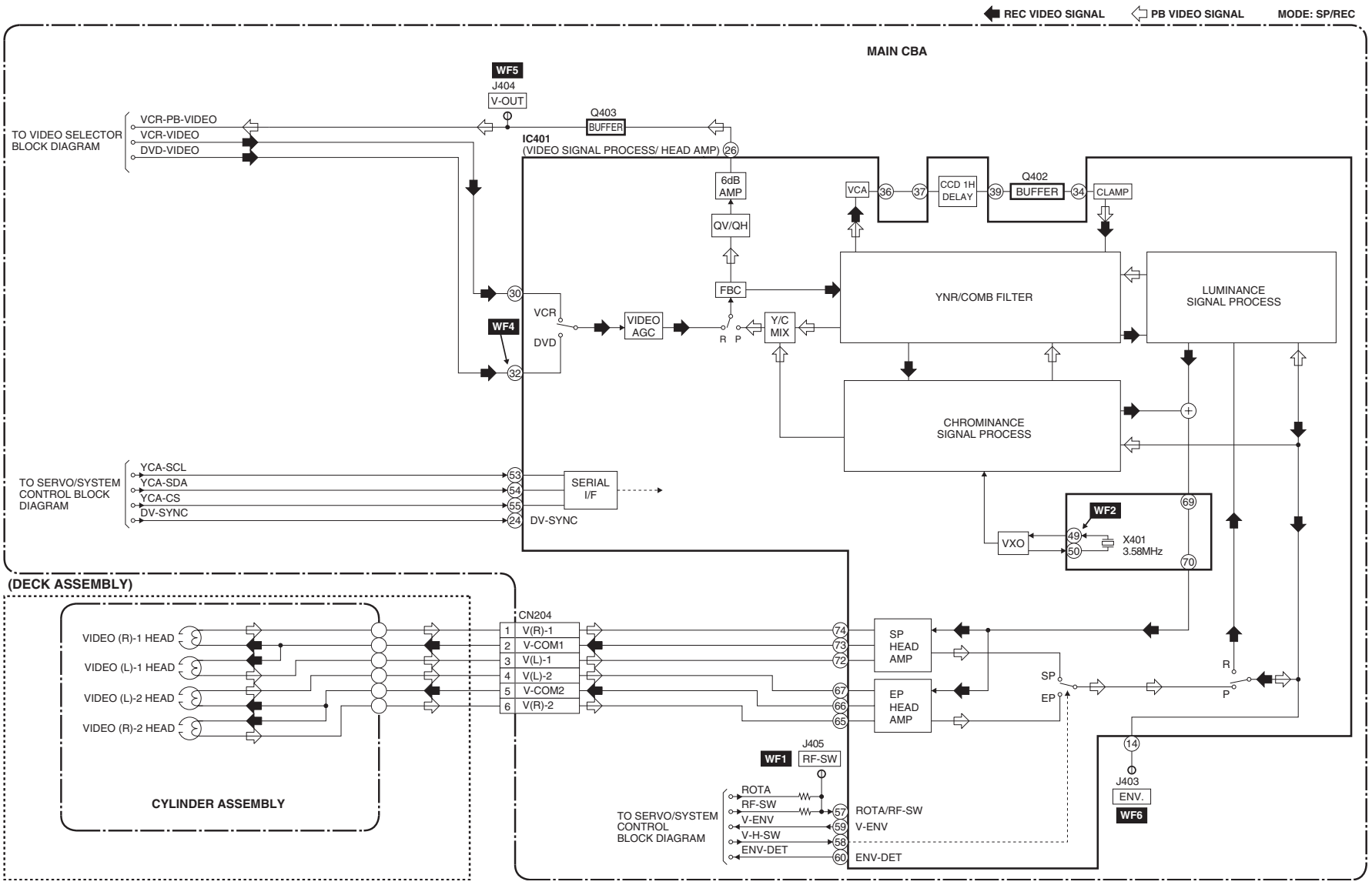
Digital Signal Process Block Diagram

REC VIDEO SIGNAL
 PB VIDEO SIGNAL
 REC AUDIO SIGNAL
 PB AUDIO SIGNAL

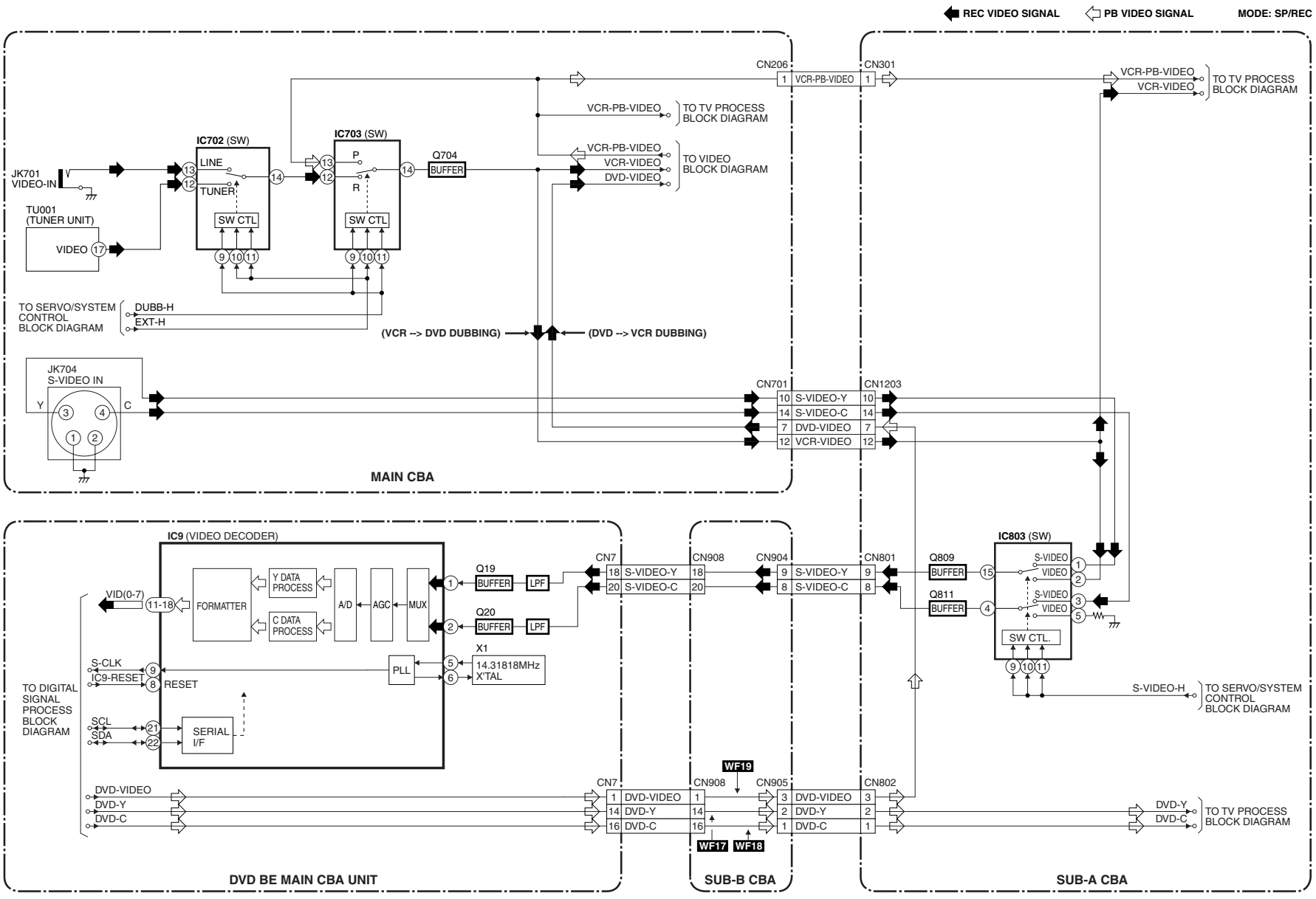
DVD MECHA & FE ASSEMBLY

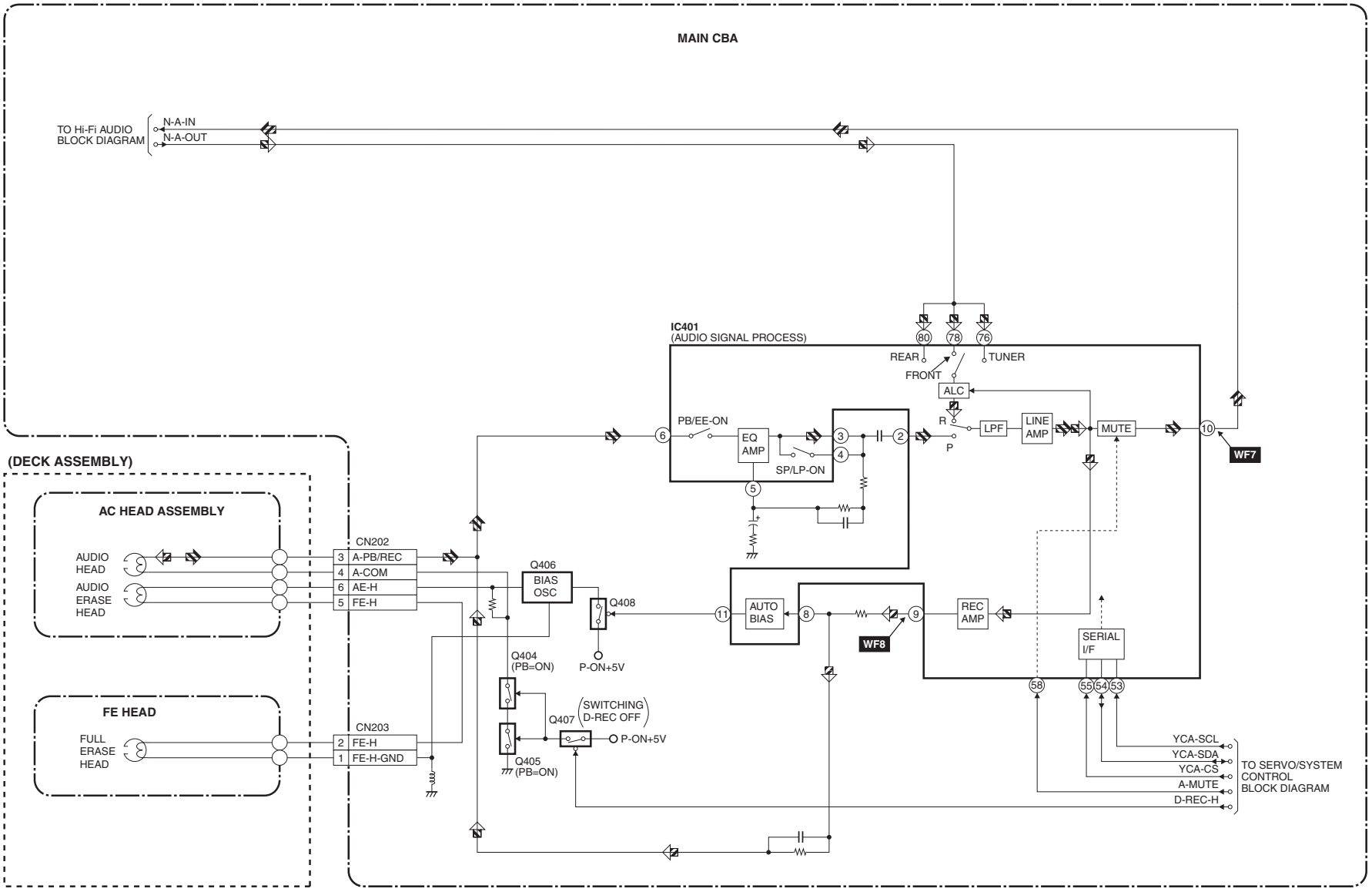


Video Block Diagram

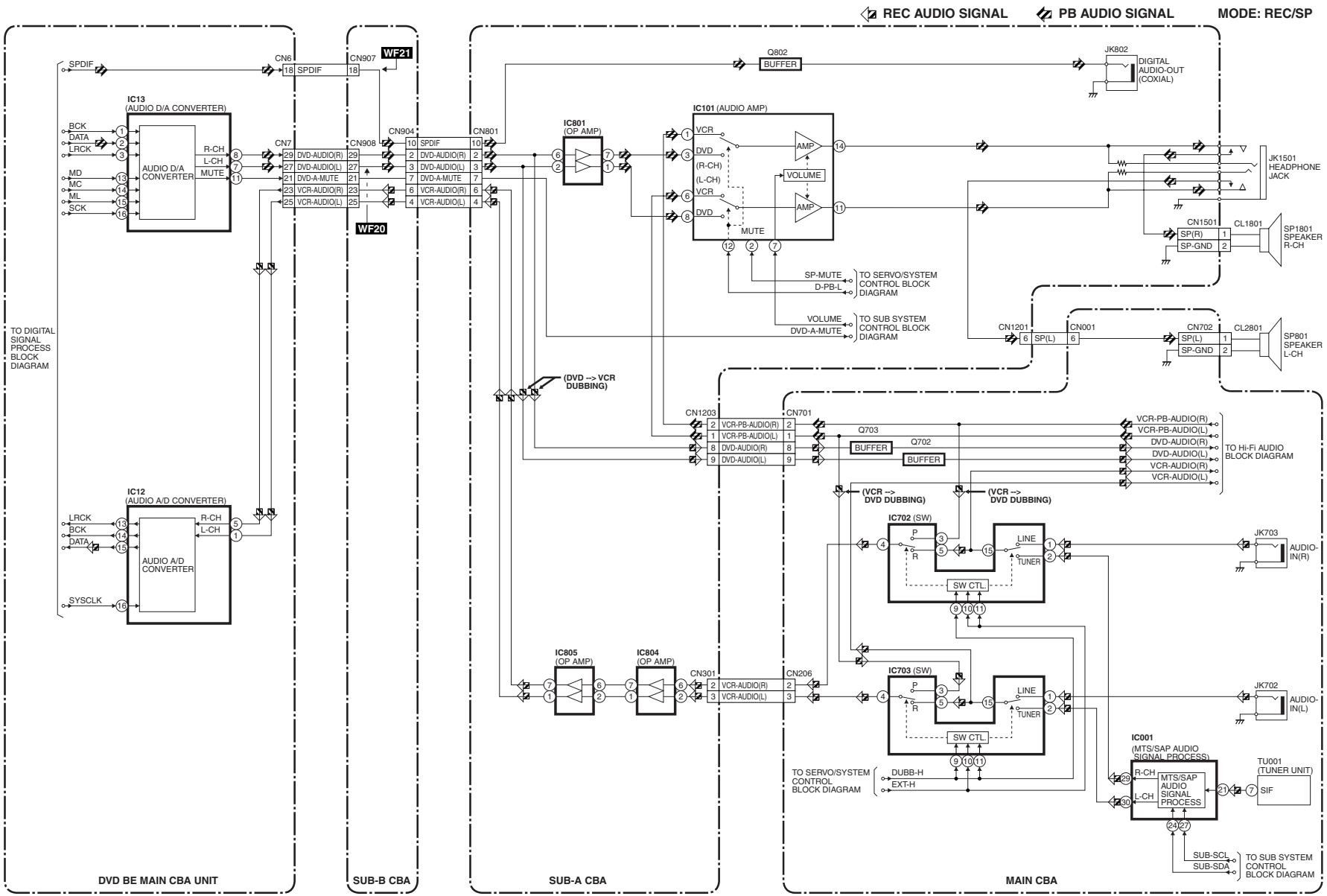


Video Selector Block Diagram



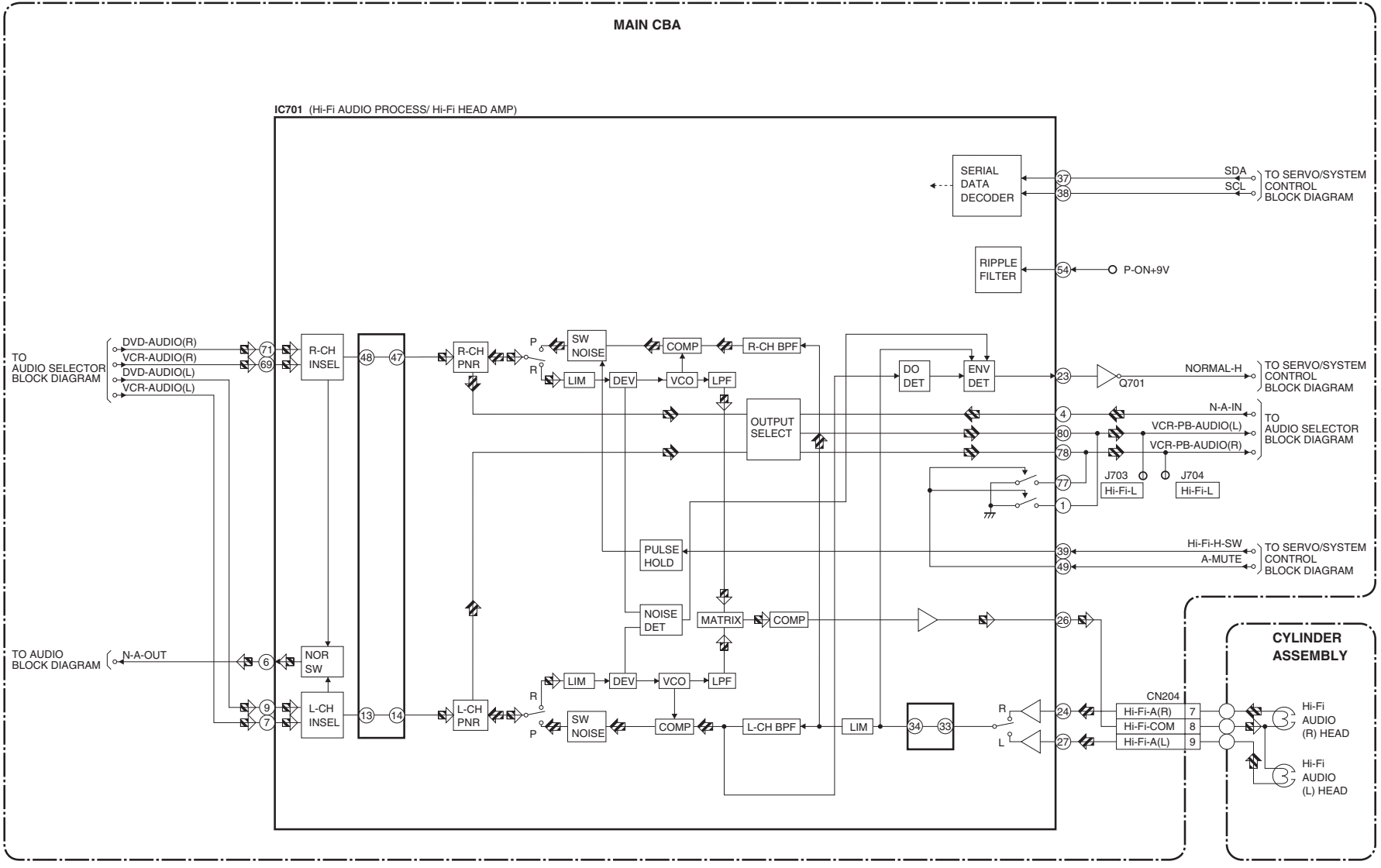


Audio Selector Block Diagram

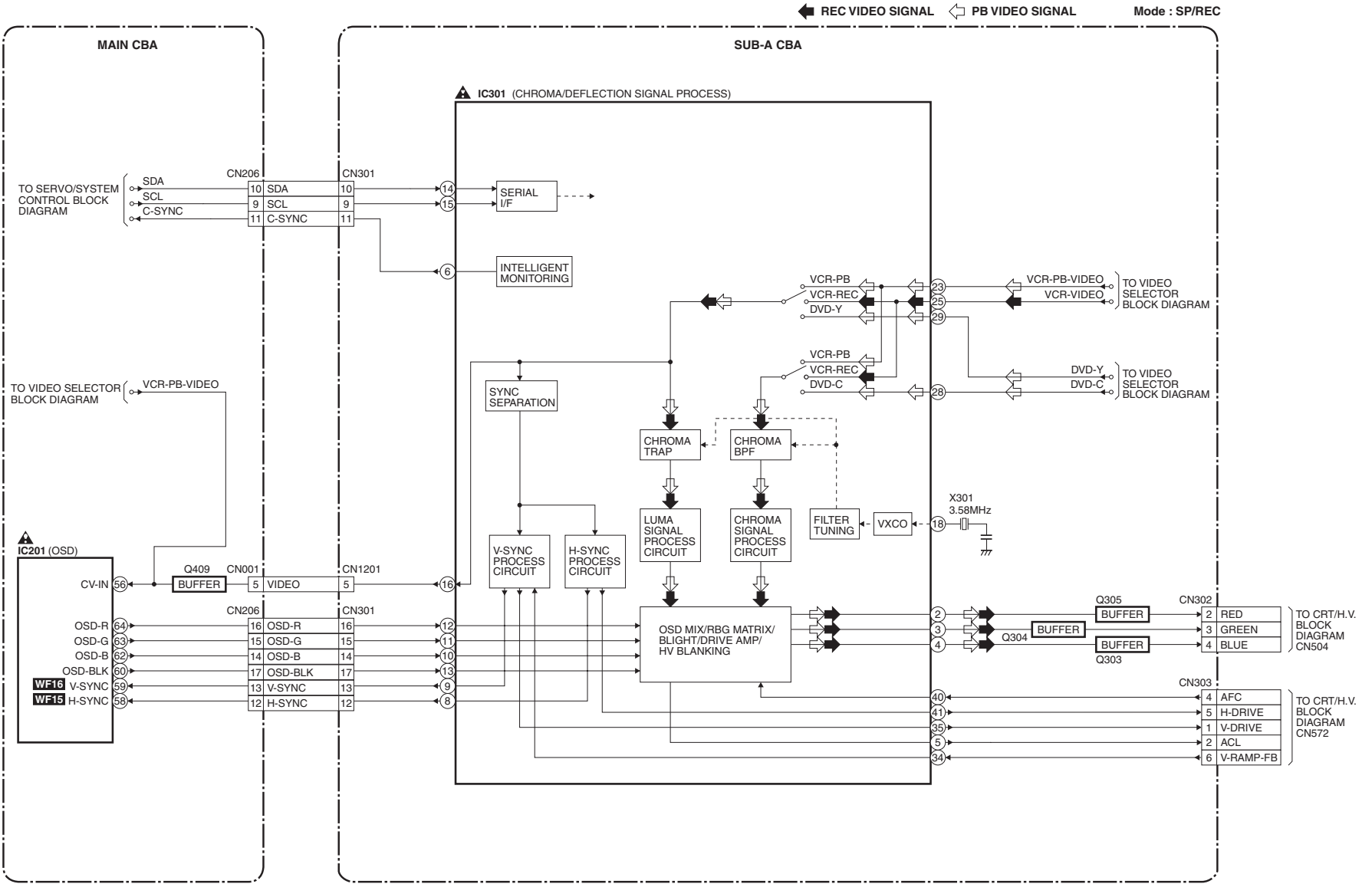


Hi-Fi Audio Block Diagram

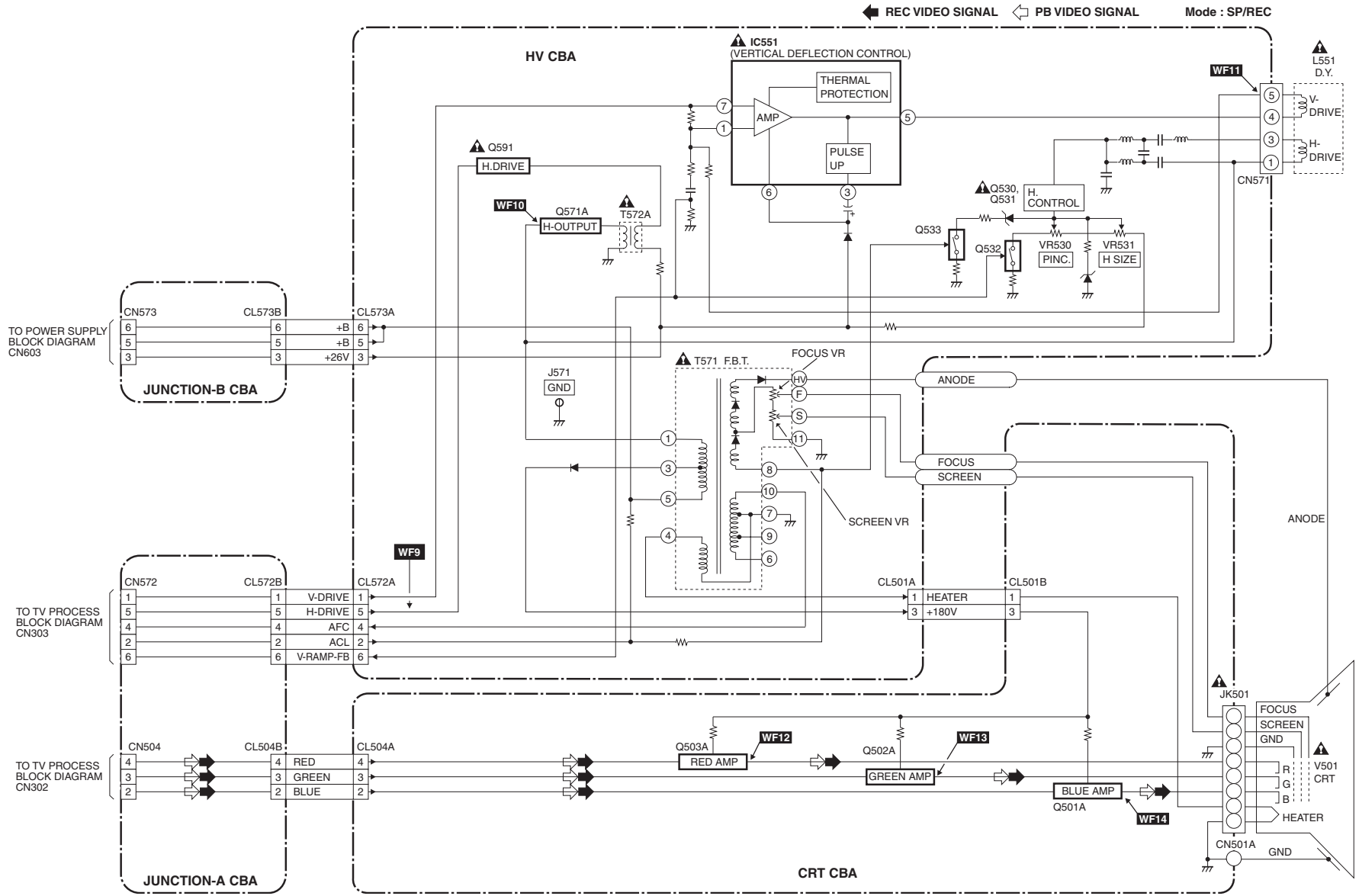
REC AUDIO SIGNAL PB AUDIO SIGNAL Mode : SP/REC



TV Process Block Diagram



CRT/H.V. Block Diagram



Power Supply Block Diagram

CAUTION !

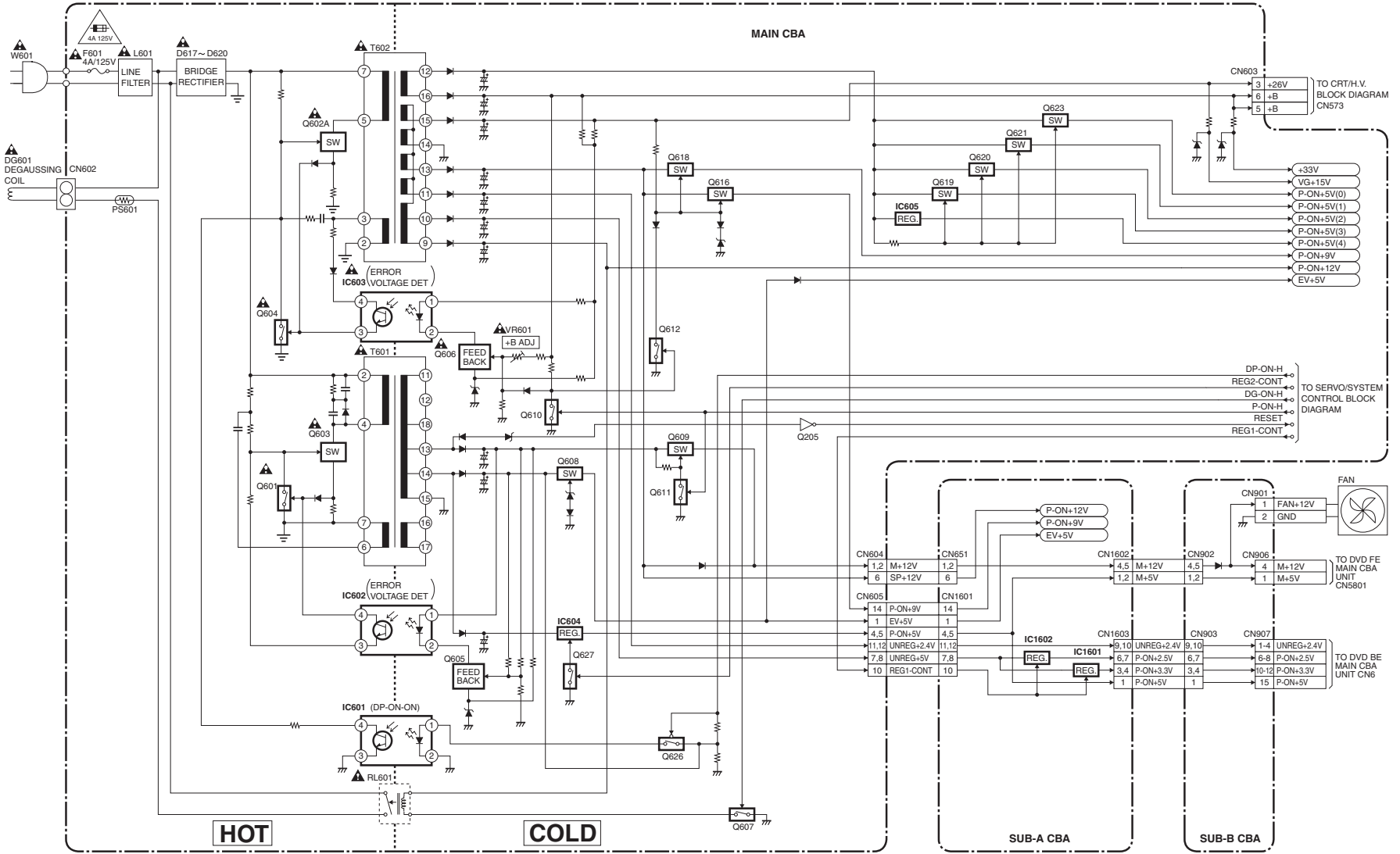
Fixed voltage power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE 4 A, 125V FUSE.
ATTENTION: UTILISER UN FUSIBLE DE REMPLACEMENT DE MÊME TYPE DE 4A, 125V.

NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

Warning

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "▲" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Note:

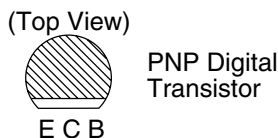
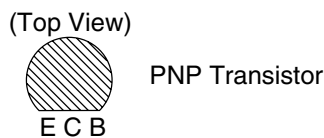
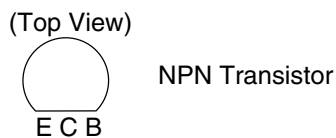
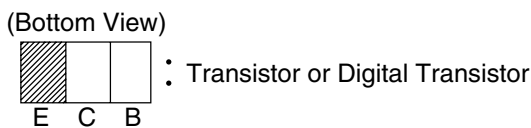
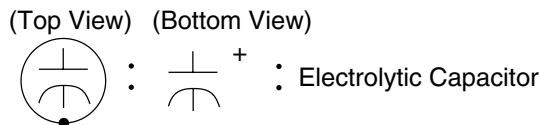
1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}\mu F$).
5. All voltages are DC voltages unless otherwise specified.

Capacitor Temperature Markings

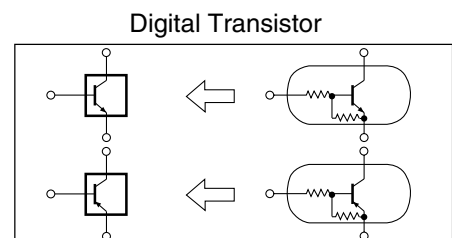
Mark	Capacity change rate	Standard temperature	Temperature range
(B)	$\pm 10\%$	20°C	-25~+85°C
(F)	+30 -80%	20°C	-25~+85°C
(SR)	$\pm 15\%$	20°C	-25~+85°C
(Z)	+30 -80%	20°C	-10~+70°C

Capacitors and transistors are represented by the following symbols.

CBA Symbols



Schematic Diagram Symbols



LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. **CAUTION:** FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE_A,_V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE_A,_V.

2. **CAUTION:**

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. **Note:**

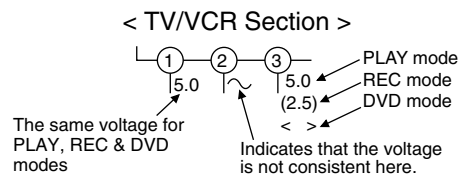
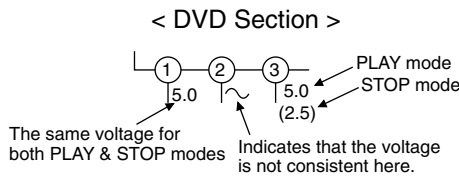
(1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.

(2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Note: Mark "•" is a leadless (chip) component

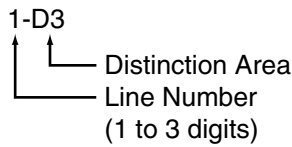
5. Mode: SP/REC

6. Voltage indications for PLAY and REC modes on the schematics are as shown below:



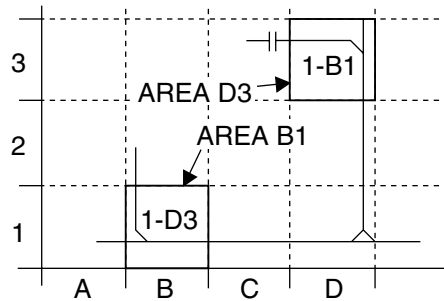
Unit: Volts

7. How to read converged lines



Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



8. Test Point Information

⊙ : Indicates a test point with a jumper wire across a hole in the PCB.

□→ : Used to indicate a test point with a component lead on foil side.

⊘ : Used to indicate a test point with no test pin.

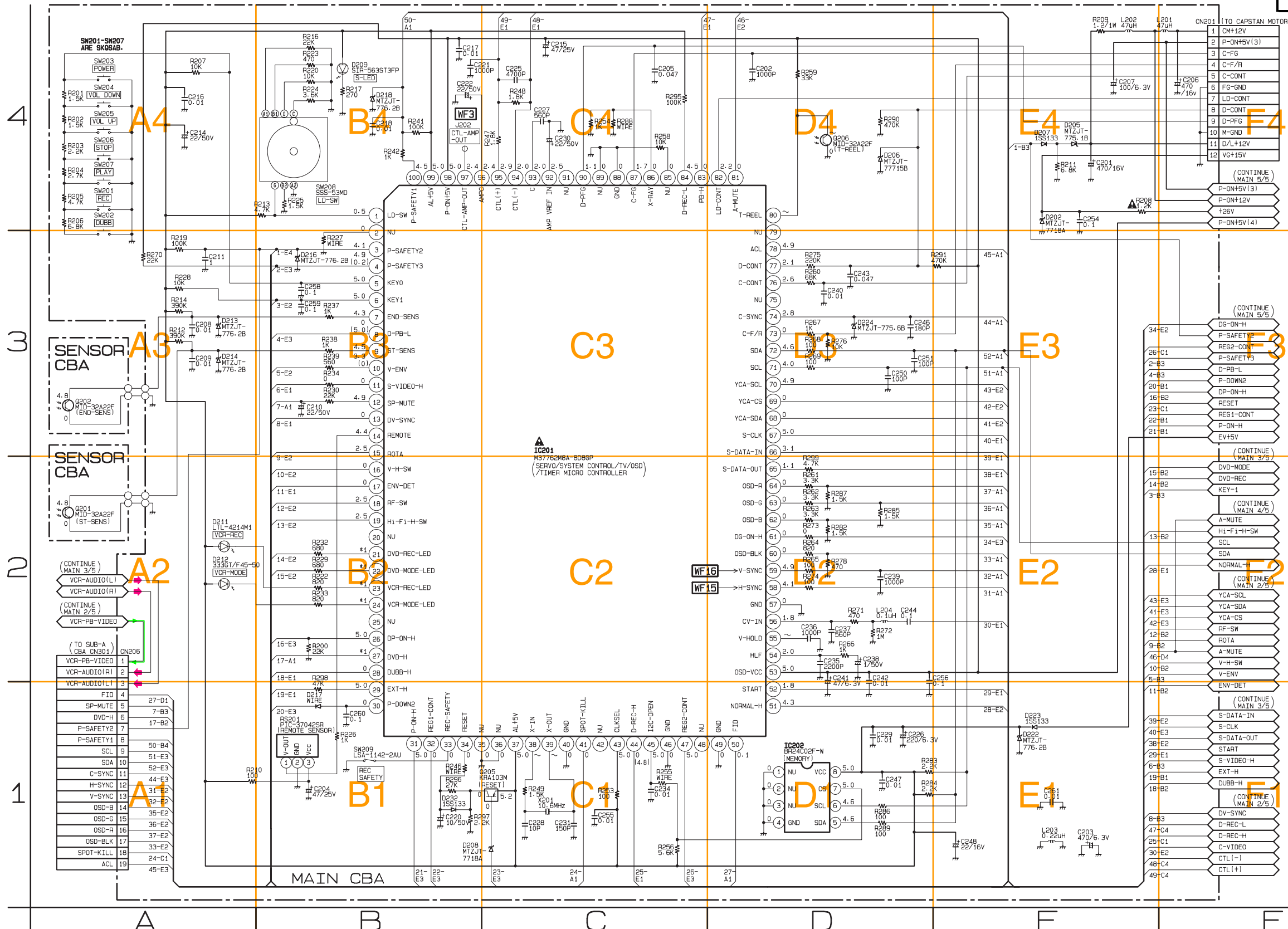
● : Used to indicate a test point with a test pin.

Main 1/5 Schematic Diagram < TV/VCR Section >

*1 NOTE: VOLTAGE CHART

Pin No.	VCR		DVD	
	REC	PB	REC	PB
21	5.0	5.0	0	5.0
22	5.0	5.0	0	0
23	0	5.0	5.0	5.0
24	0	0	5.0	5.0
27	0	0	5.0	5.0

← REC AUDIO SIGNAL → PB VIDEO SIGNAL

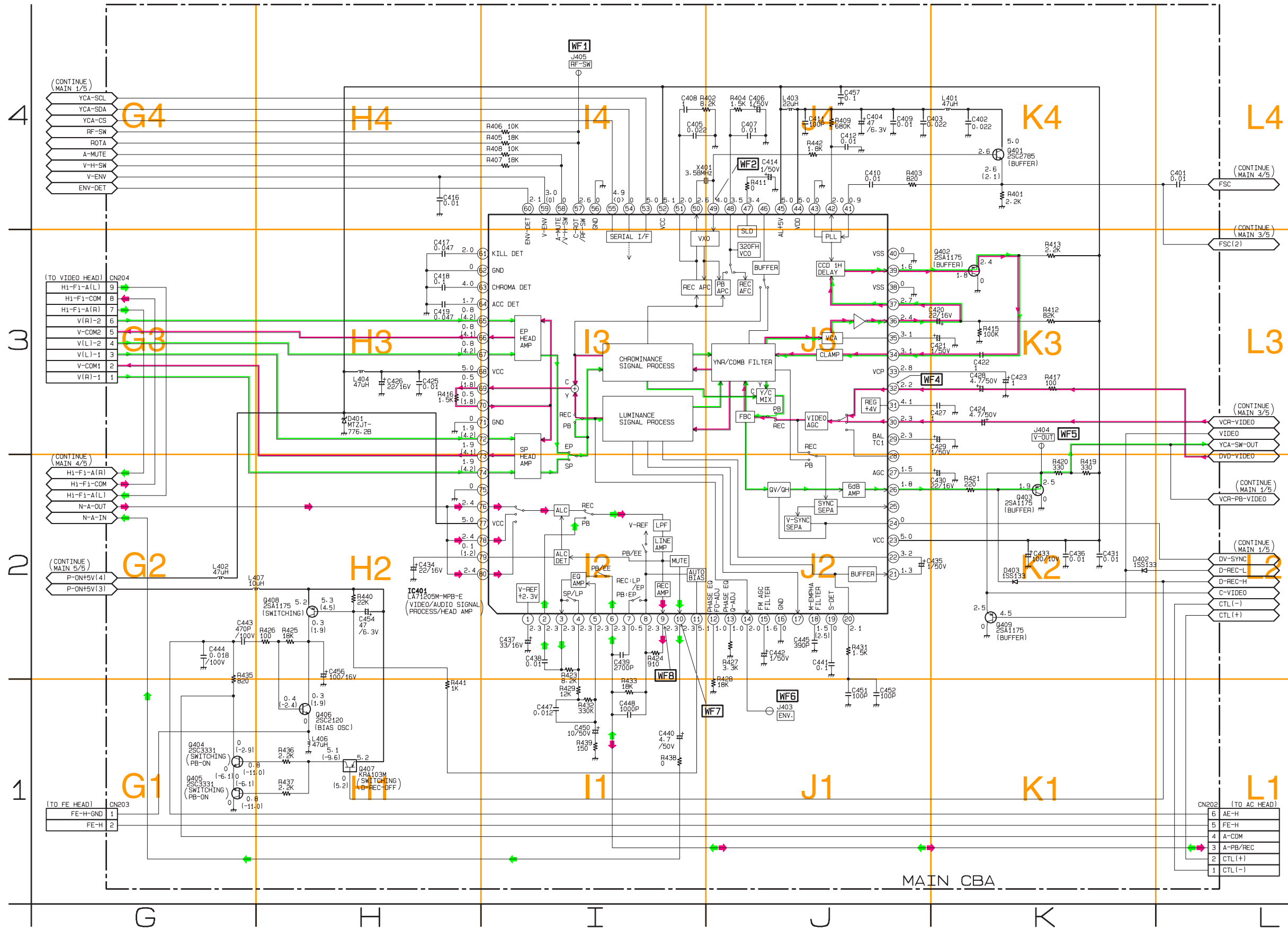


MAIN 1/5

Ref No.	Position
ICS	
IC201	C-1
IC202	D-1
TRANSISTORS	
Q205	C-1
Q206	D-4
CONNECTORS	
CN201	F-4
CN206	A-2
TEST POINT	
J202	B-4

Main 2/5 Schematic Diagram < TV/VCR Section >

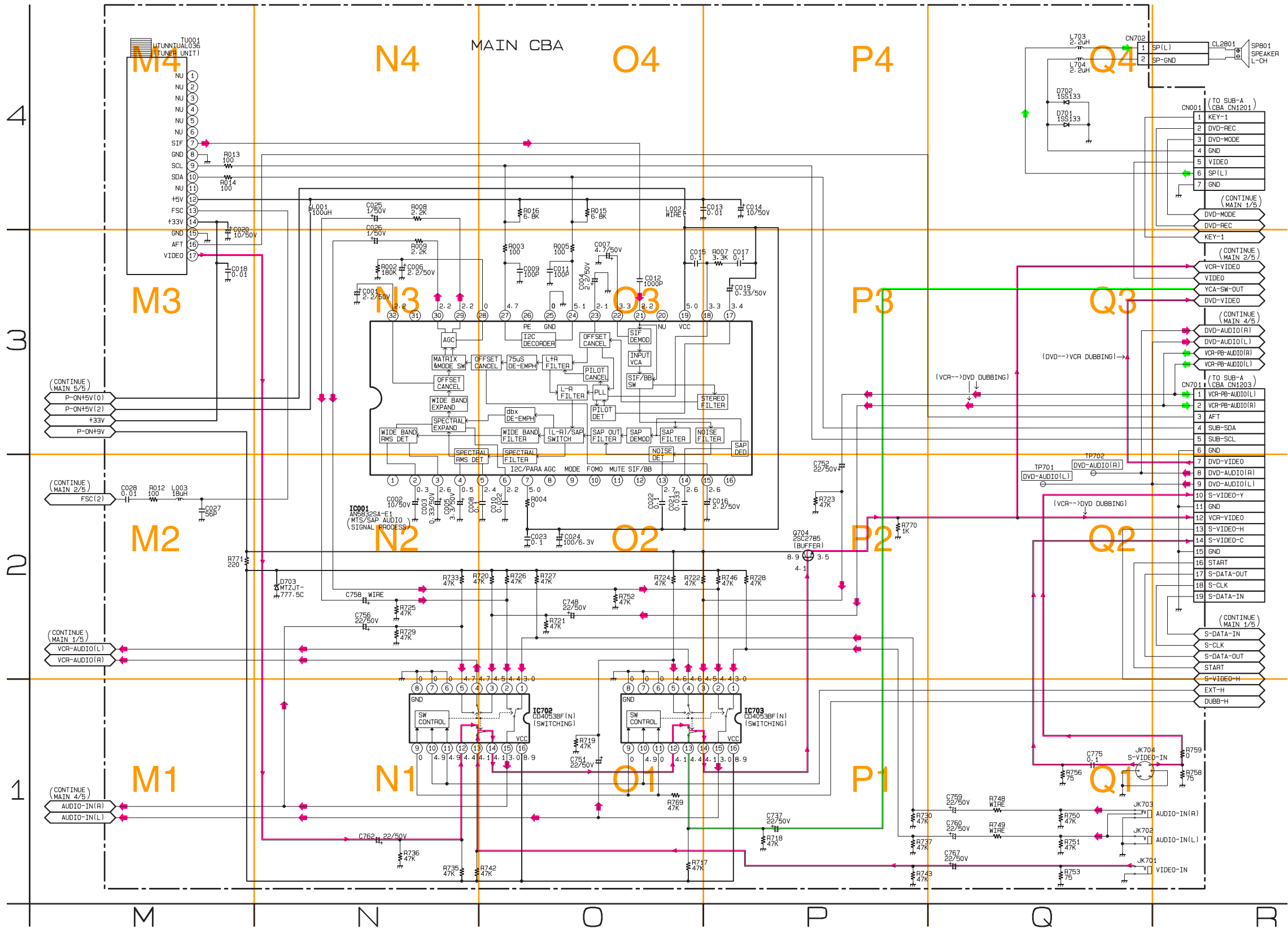
— REC VIDEO SIGNAL — PB VIDEO SIGNAL
← REC AUDIO SIGNAL ← PB AUDIO SIGNAL



MAIN 2/5

Ref No.	Position
IC	
IC401	H-2
TRANSISTORS	
Q401	K-4
Q402	K-3
Q403	K-2
Q404	G-1
Q405	G-1
Q406	H-1
Q407	H-1
Q408	H-2
Q409	K-2
CONNECTORS	
CN202	L-1
CN203	G-1
CN204	G-3
TEST POINTS	
J403	J-1
J404	K-2
J405	I-4

Main 3/5 Schematic Diagram < TV/VCR Section >

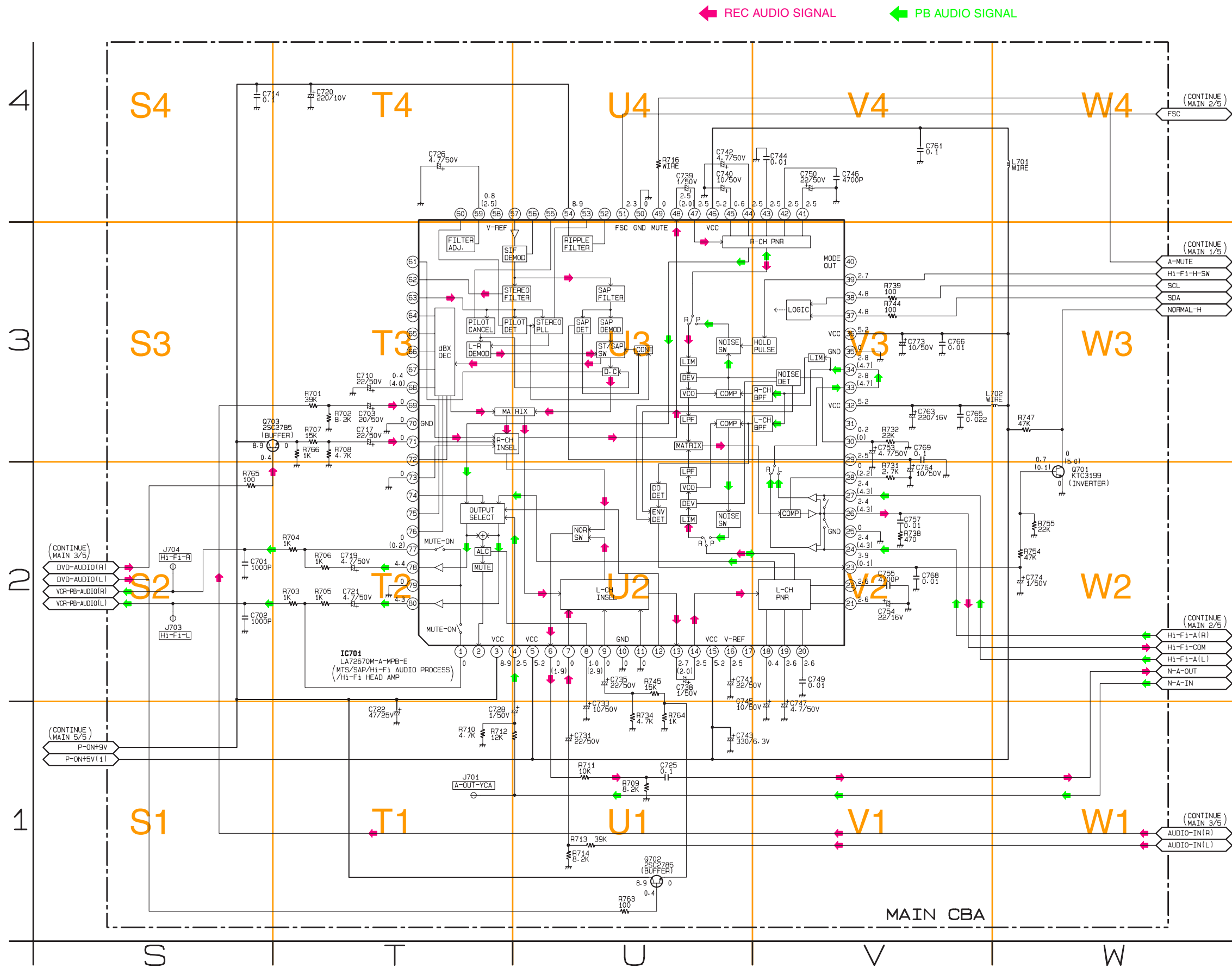


MAIN 3/5

Ref No.	Position
ICS	
IC001	N-2
IC702	O-1
IC703	P-1
TRANSISTOR	
Q704	P-2
CONNECTORS	
CN001	R-4
CN701	R-3
CN702	Q-4
TEST POINTS	
TP701	Q-2
TP702	Q-2

R4
R3
R2
R1

Main 4/5 Schematic Diagram < TV/VCR Section >



MAIN 4/5

Ref No.	Position
IC	
IC701	T-2
TRANSISTORS	
Q701	W-2
Q702	U-1
Q703	S-1
TEST POINTS	
J701	T-1
J703	S-2
J704	S-2

Main 5/5 Schematic Diagram < TV/VCR Section >

CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

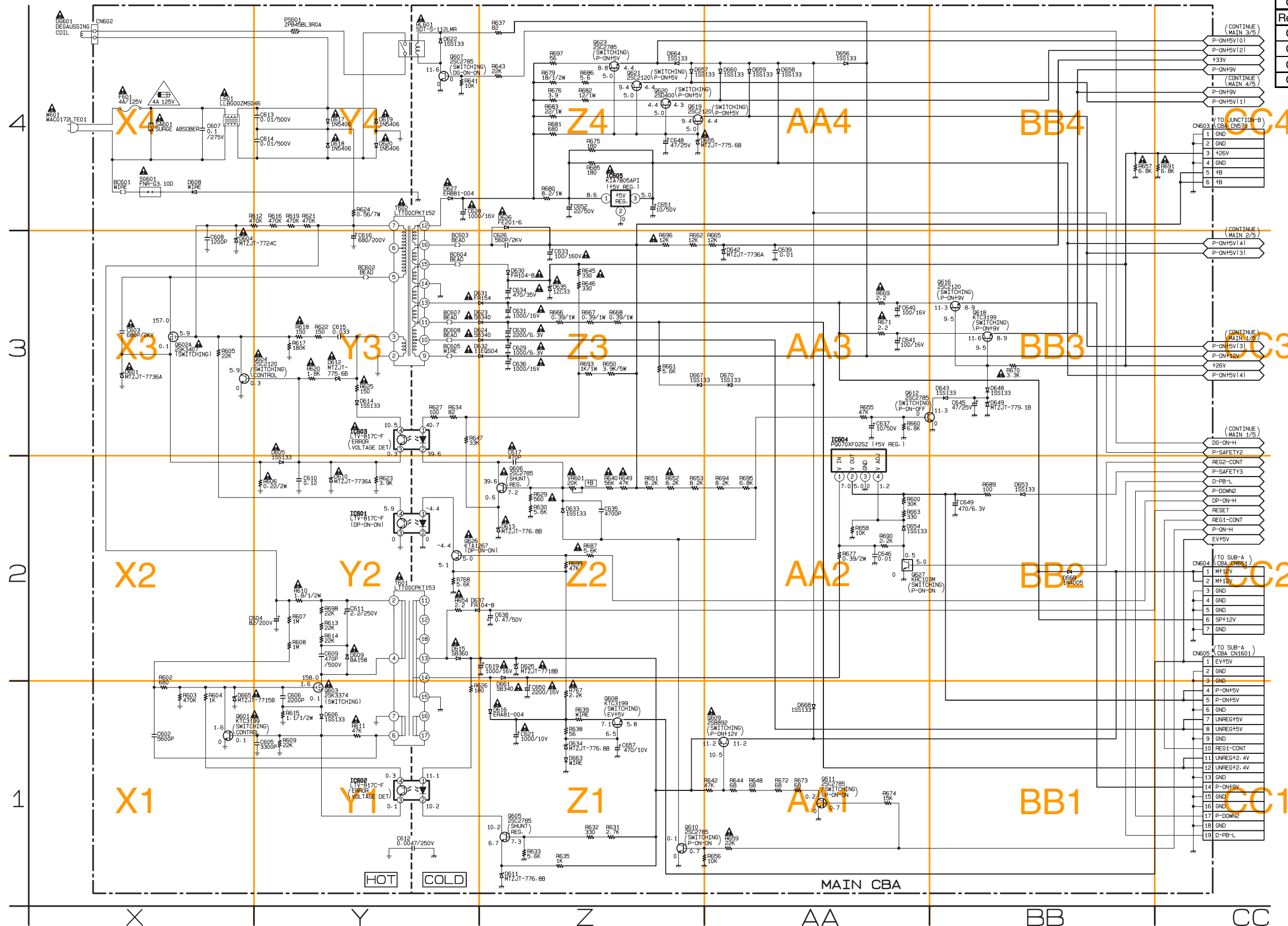


CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A, 125V FUSE. **NOTE:** The voltage for parts in hot circuit is measured using hot GND as a common terminal.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE 4A, 125V.

VOLTAGE CHART (Power off mode)

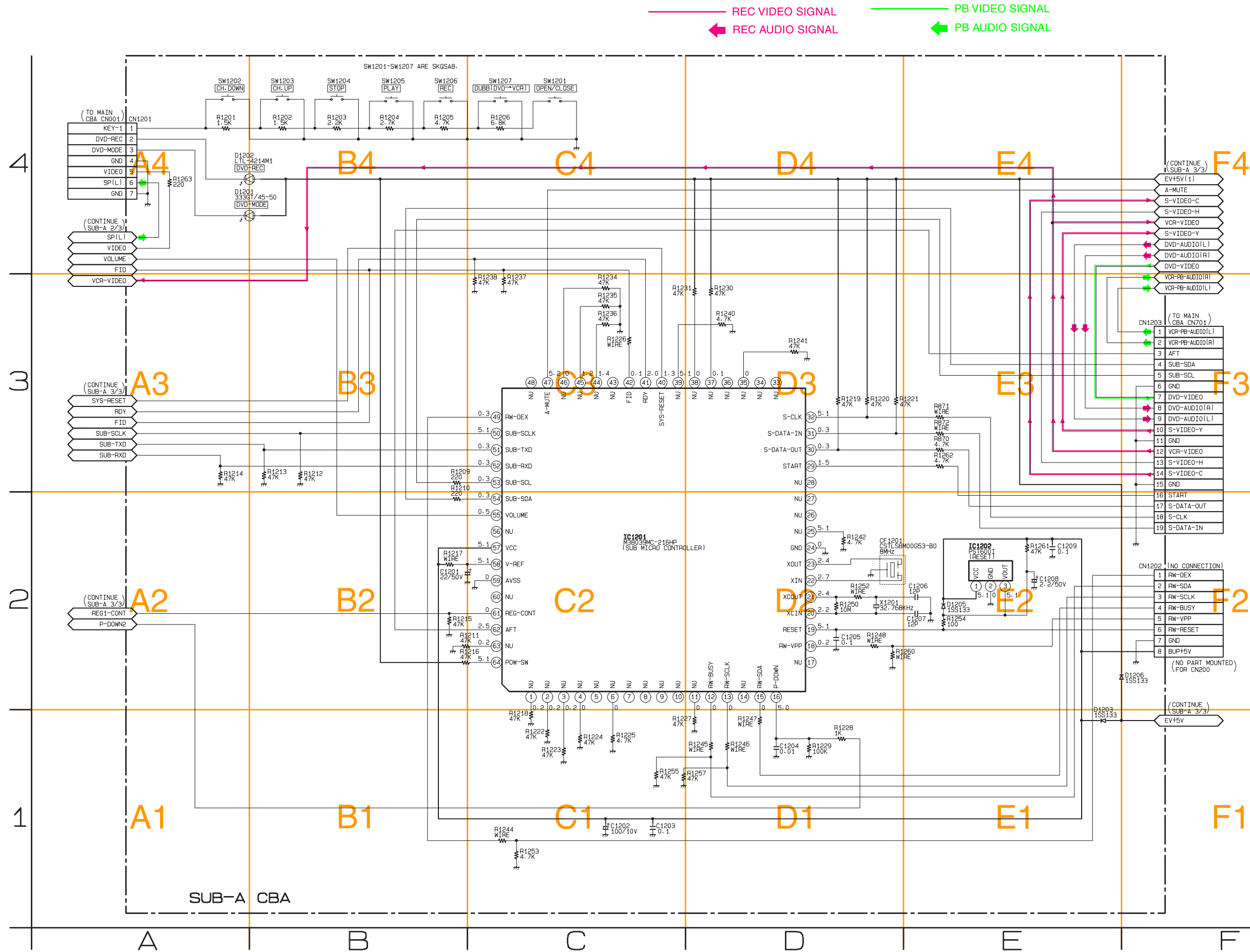
Ref. No.	1	2	3	4
IC601	-4.1	0	0	0.5
IC602	11.1	10.2	0.6	0.9
IC603	39.3	38.3	0	6.7
Ref. No.	S	D	G	
Q602	0	165.0	1.5	
Q603	0	165.0	0.9	
Ref. No.	E	C	B	
Q601	0	0.9	0.5	
Q604	0	1.5	0.4	
Q606	6.6	38.3	7.2	
Q626	5.1	5.0	-2.8	



MAIN 5/5

Ref. No.	Position
ICS	
IC601	Y-2
IC602	Y-1
IC603	Y-3
IC604	AA-3
IC605	Z-4
TRANSISTORS	
Q601	X-1
Q602A	X-3
Q603	Y-1
Q604	Y-4
Q605	Z-1
Q606	Z-2
Q607	Y-4
Q608	Z-1
Q609	AA-1
Q610	Z-1
Q611	AA-1
Q612	AA-3
Q616	BB-3
Q618	BB-3
Q619	Z-4
Q620	Z-4
Q621	Z-4
Q623	Z-4
Q626	Y-2
Q627	AA-2
CONNECTORS	
CN602	X-4
CN603	CC-4
CN604	CC-2
CN605	CC-2
VARIABLE RESISTOR	
VR601	Z-2

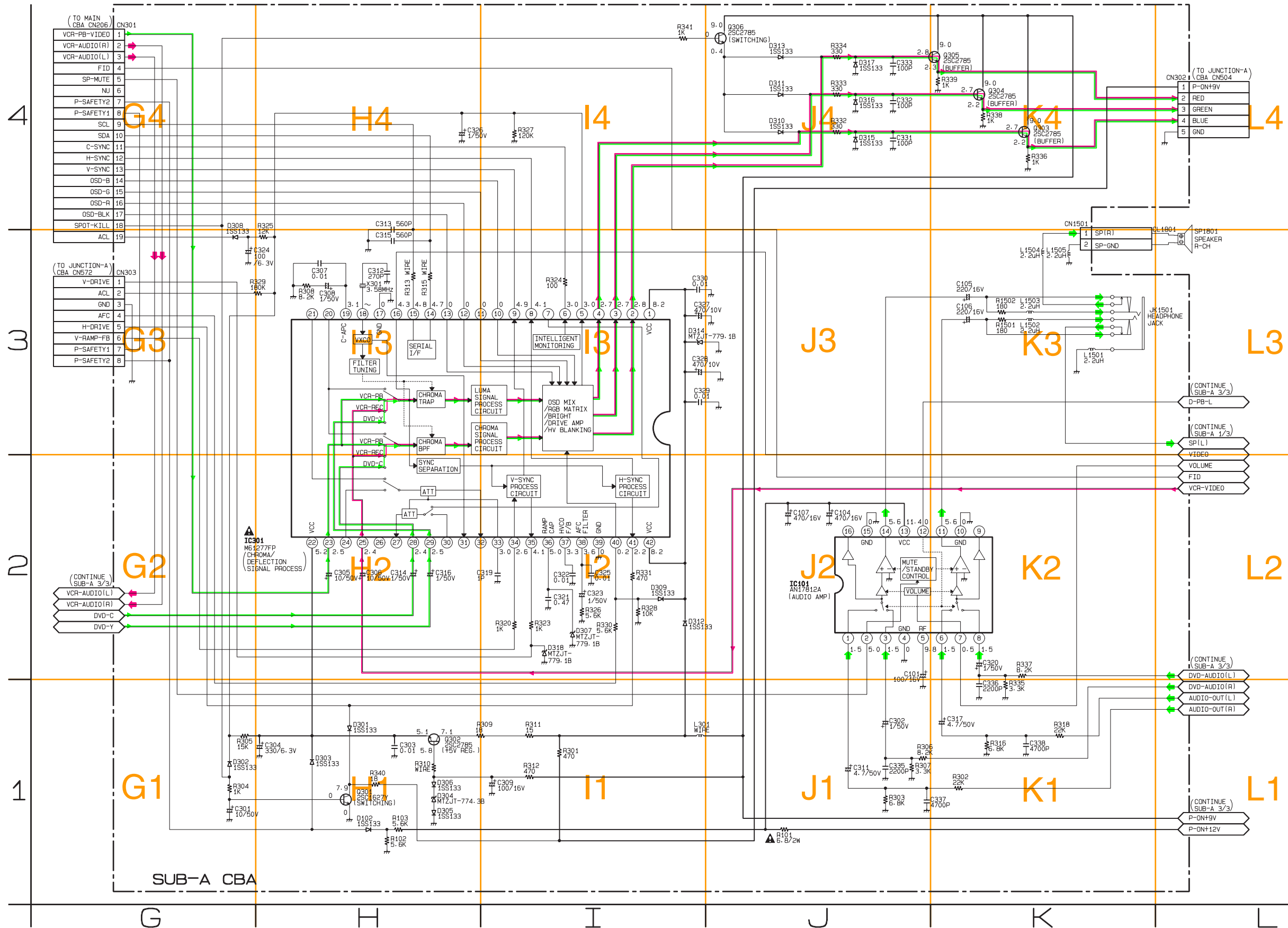
Sub-A 1/3 Schematic Diagram < TV/VCR Section >



SUB-A 1/3

Ref No.	Position
ICS	
IC1201	C-2
IC1202	E-2
CONNECTORS	
CN1201	A-4
CN1202	F-2
CN1203	F-2

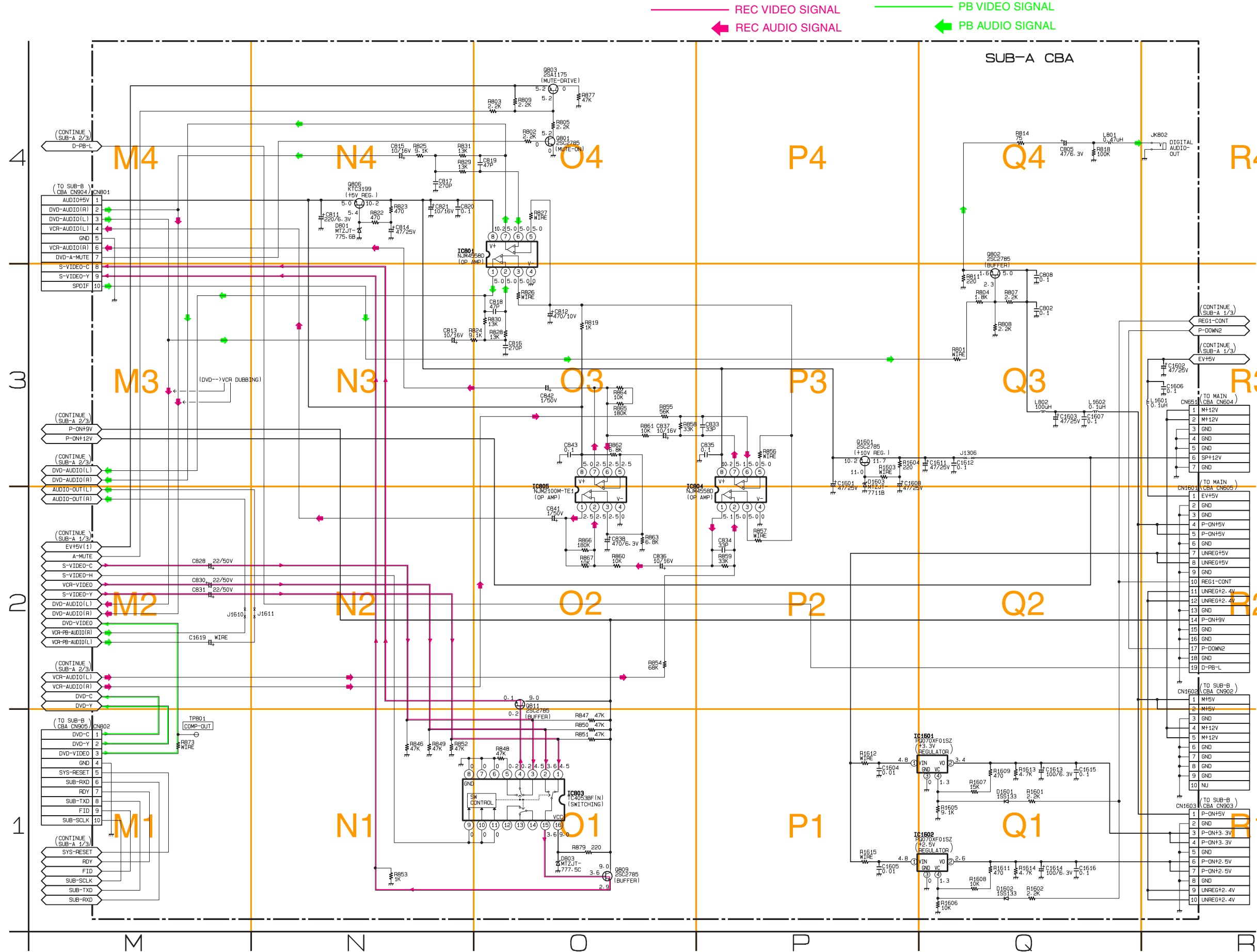
Sub-A 2/3 Schematic Diagram < TV/VCR Section >



SUB-A 2/3

Ref No.	Position
ICS	
IC101	J-2
IC301	G-2
TRANSISTORS	
Q301	H-1
Q302	H-1
Q303	K-4
Q304	K-4
Q305	K-4
Q306	J-4
CONNECTORS	
CN301	G-4
CN302	L-4
CN303	G-3
CN1501	K-4

Sub-A 3/3 Schematic Diagram < TV/VCR Section >



SUB-A 3/3

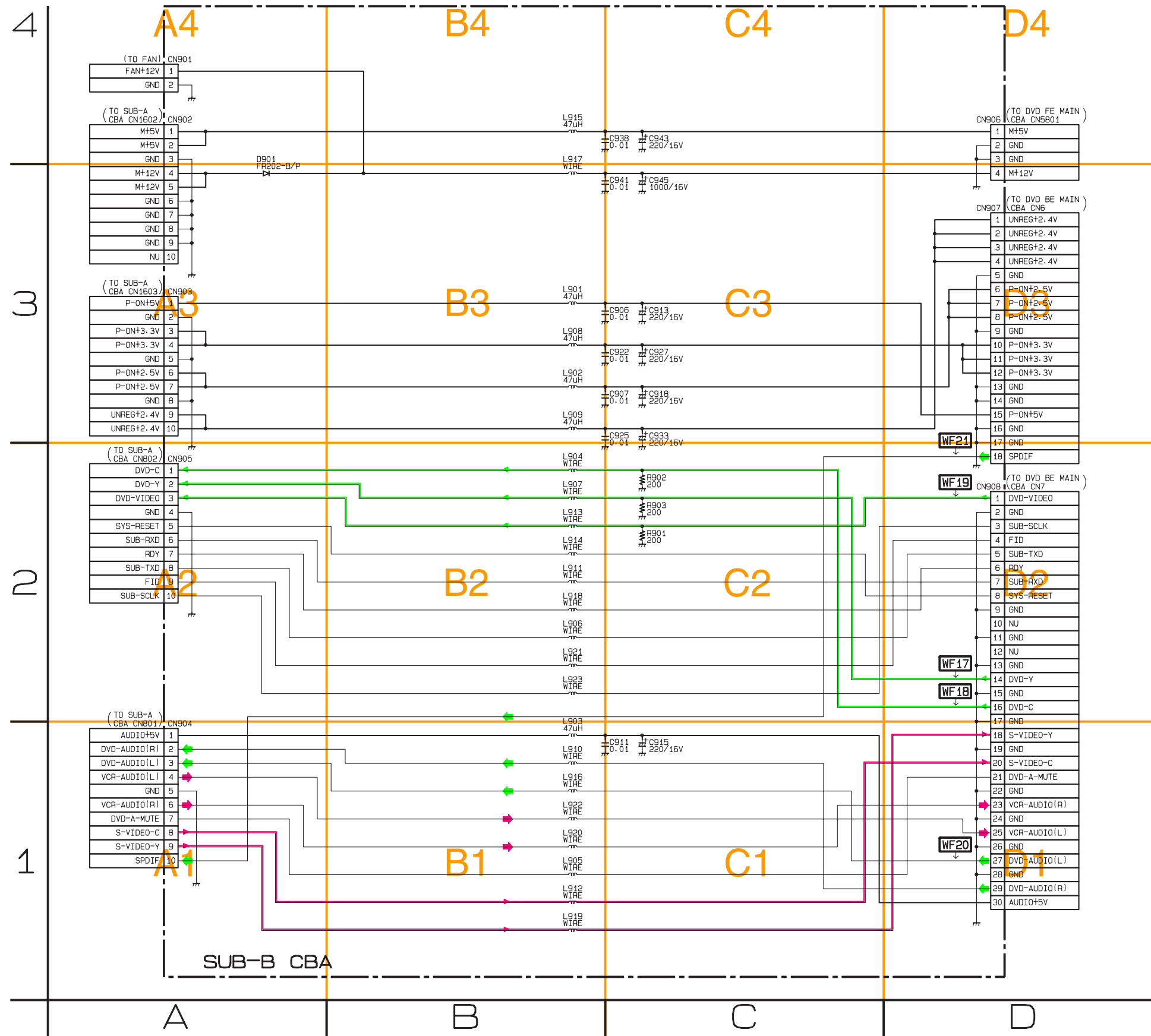
Ref No.	Position
ICS	
IC801	N-4
IC803	O-1
IC804	P-2
IC805	O-2
IC1601	Q-1
IC1602	Q-1
TRANSISTORS	
Q801	O-4
Q802	Q-4
Q803	O-4
Q806	N-4
Q809	O-1
Q811	O-2
Q1601	P-3
CONNECTORS	
CN651	R-3
CN801	M-4
CN802	M-1
CN1601	R-2
CN1602	R-2
CN1603	R-1
TEST POINT	
TP801	M-1

Sub-B Schematic Diagram < TV/VCR Section >

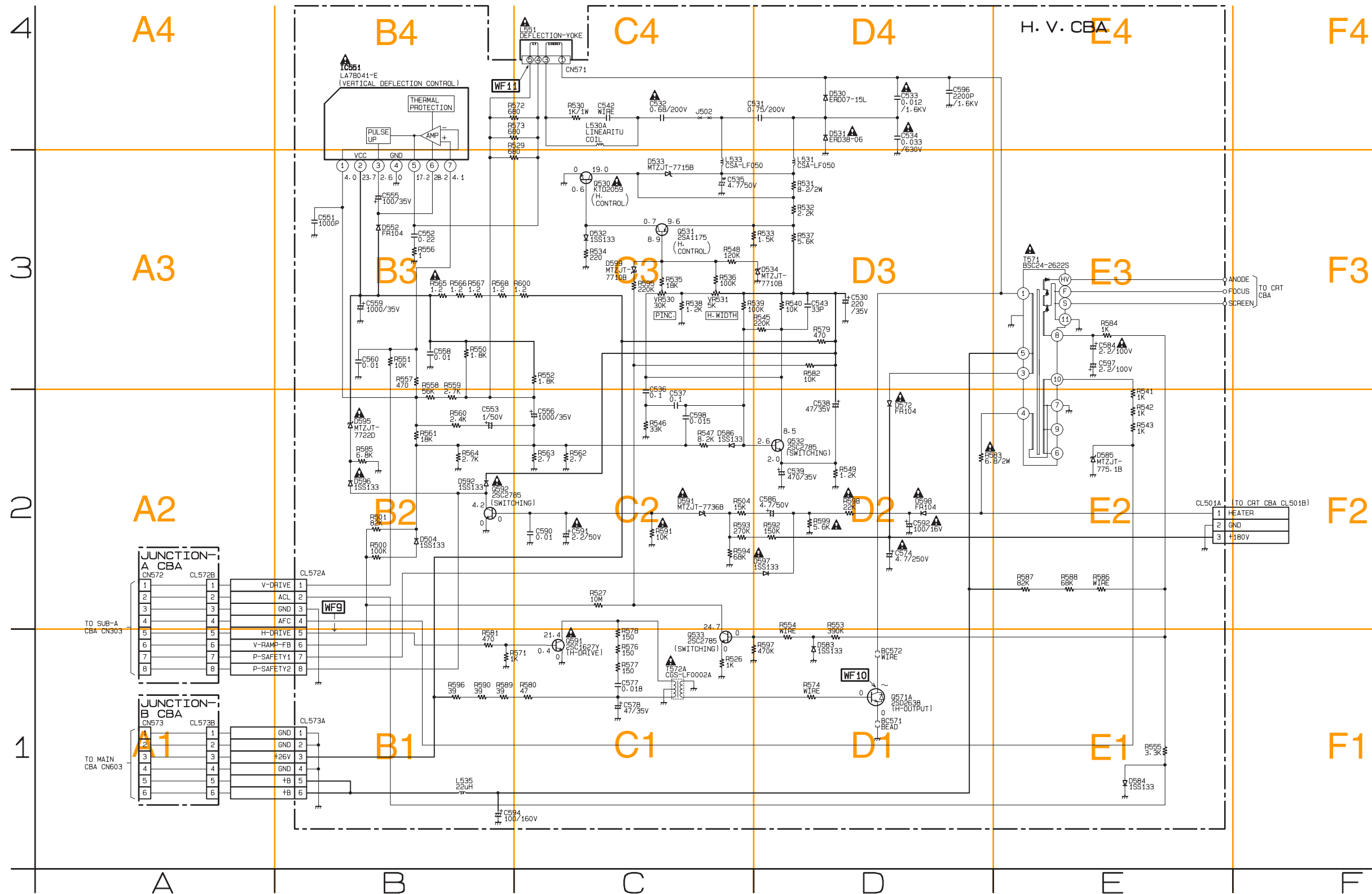
— REC VIDEO SIGNAL — PB VIDEO SIGNAL
← REC AUDIO SIGNAL ← PB AUDIO SIGNAL

SUB-B

CONNECTORS	
CN901	A-4
CN902	A-4
CN903	A-3
CN904	A-1
CN905	A-2
CN906	D-4
CN907	D-3
CN908	D-2



H.V. Schematic Diagram < TV/VCR Section >



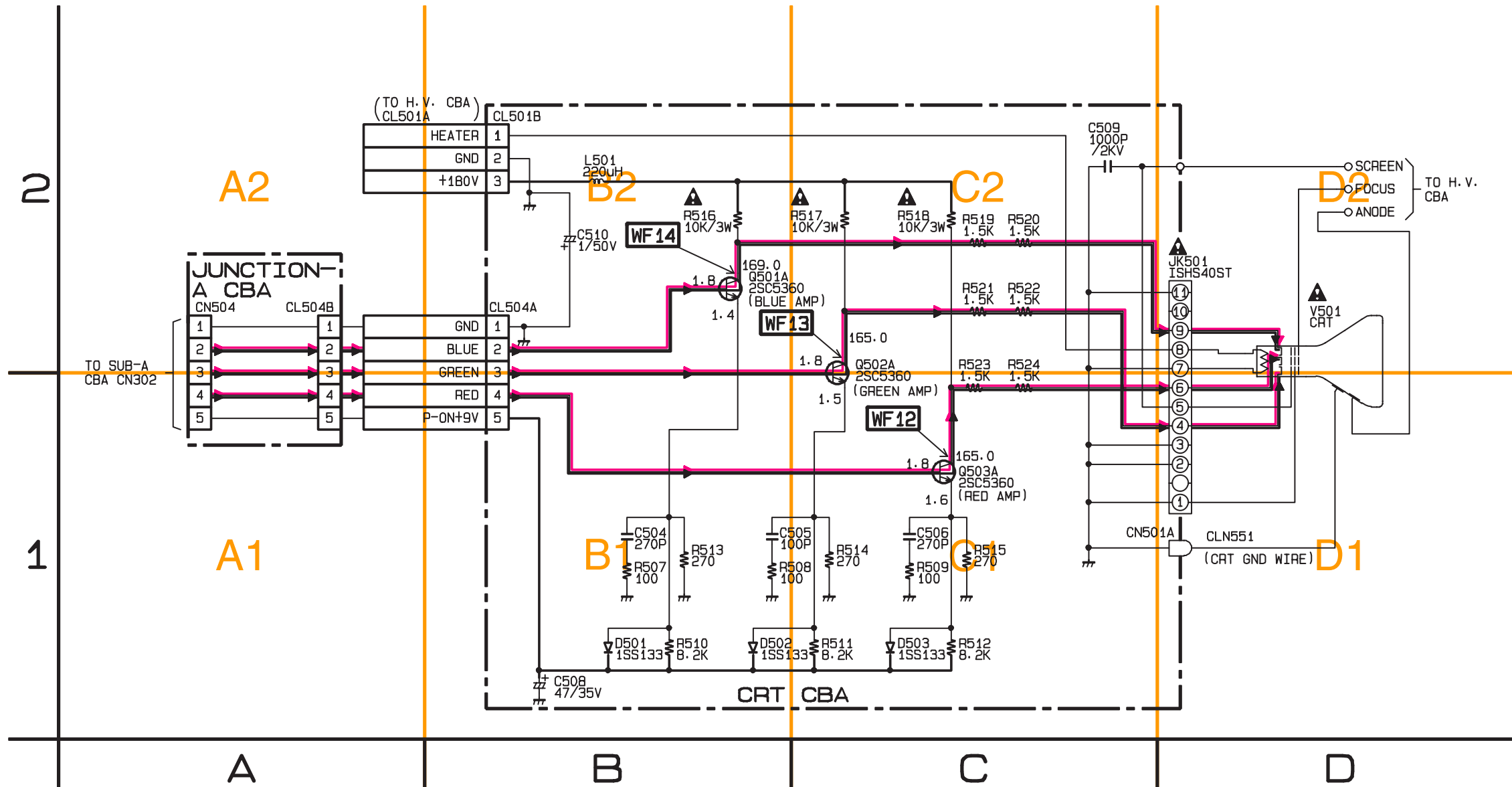
H.V.	
Ref No.	Position
IC	
IC551	B-4
TRANSISTORS	
Q530	C-3
Q531	C-3
Q532	D-2
Q533	C-1
Q591	C-1
Q592	B-2
Q571A	D-1
CONNECTORS	
CL501A	E-2
CL572A	B-2
CL573A	B-1
CN571	C-4
VARIABLE RESISTORS	
VR530	C-3
VR531	C-3

CRT Schematic Diagram < TV/VCR Section >

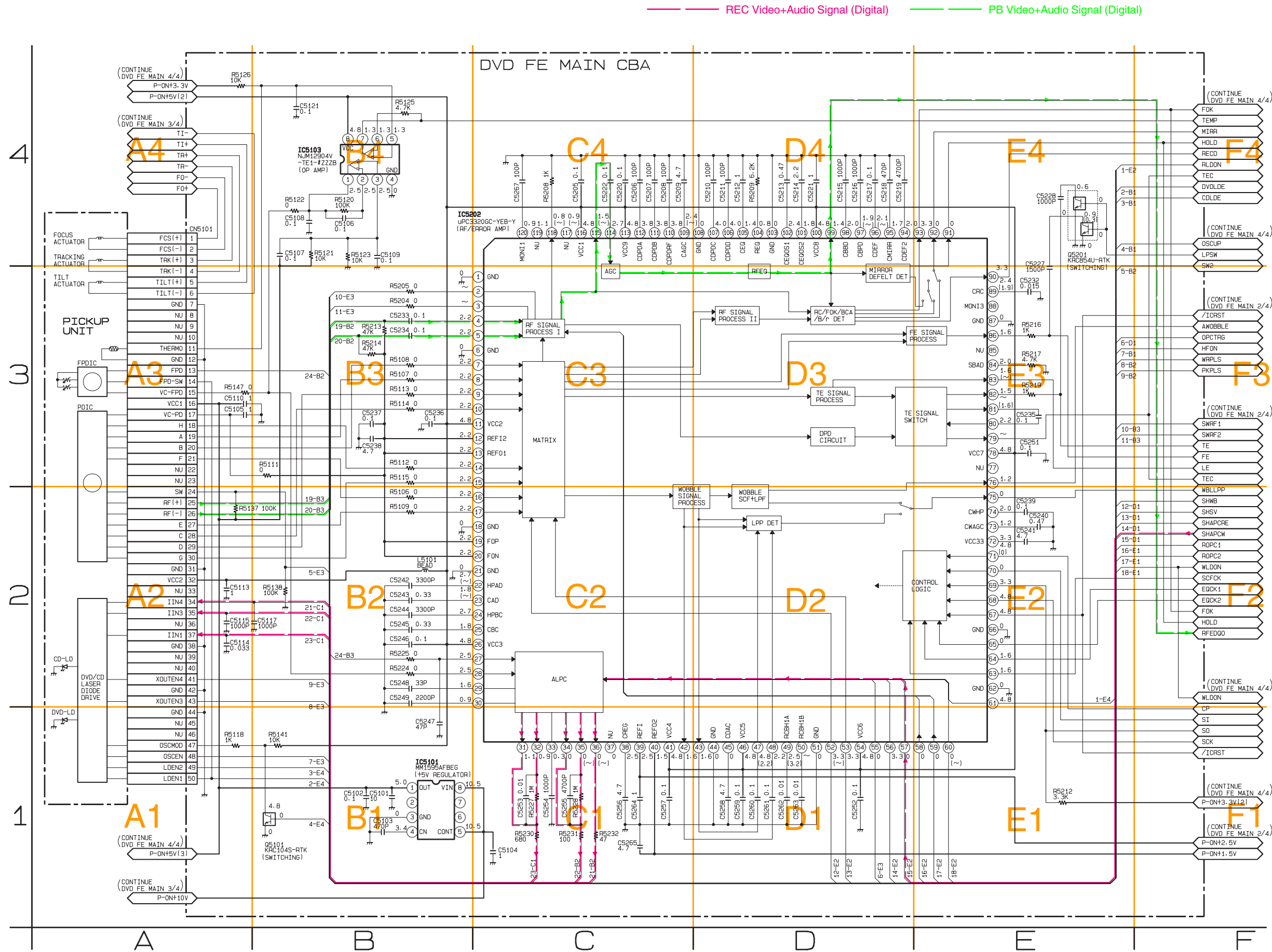
CRT

Ref No.	Position
TRANSISTORS	
Q501A	B-2
Q502A	C-2
Q503A	C-1
CONNECTORS	
CL501B	B-2
CL504A	B-2
CN501A	C-1

REC VIDEO SIGNAL (Pink line)
PB VIDEO SIGNAL (Green line)



DVD FE Main 1/4 Schematic Diagram < DVD Section >



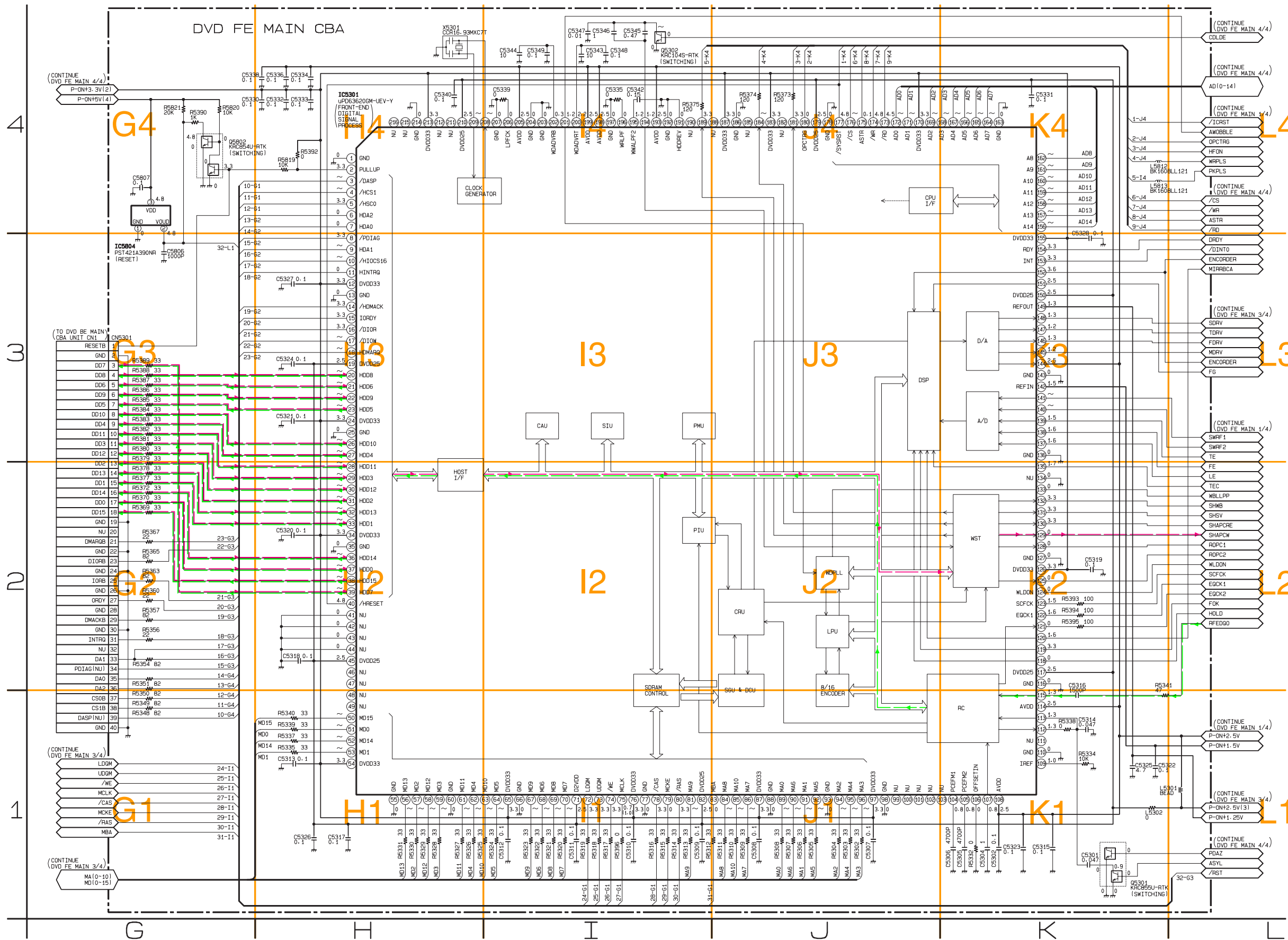
DVD FE MAIN 1/4

Ref No.	Position
ICS	
IC5101	B-1
IC5103	B-4
IC5202	C-4
TRANSISTORS	
Q5101	B-1
Q5201	E-4
CONNECTOR	
CN5101	A-4

DVD FE Main 2/4 Schematic Diagram < DVD Section >

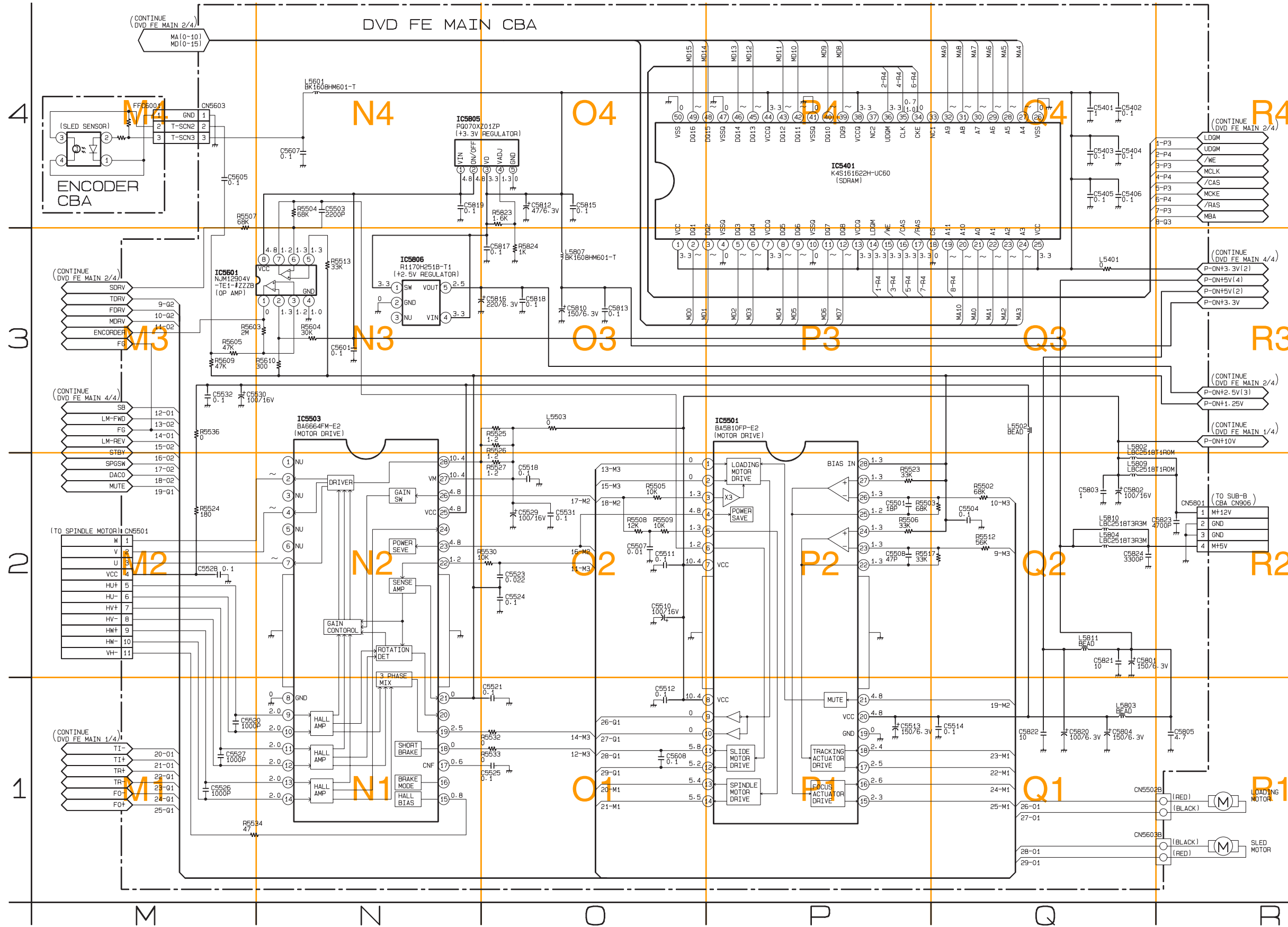
REC Video+Audio Signal (Digital)

PB Video+Audio Signal (Digital)



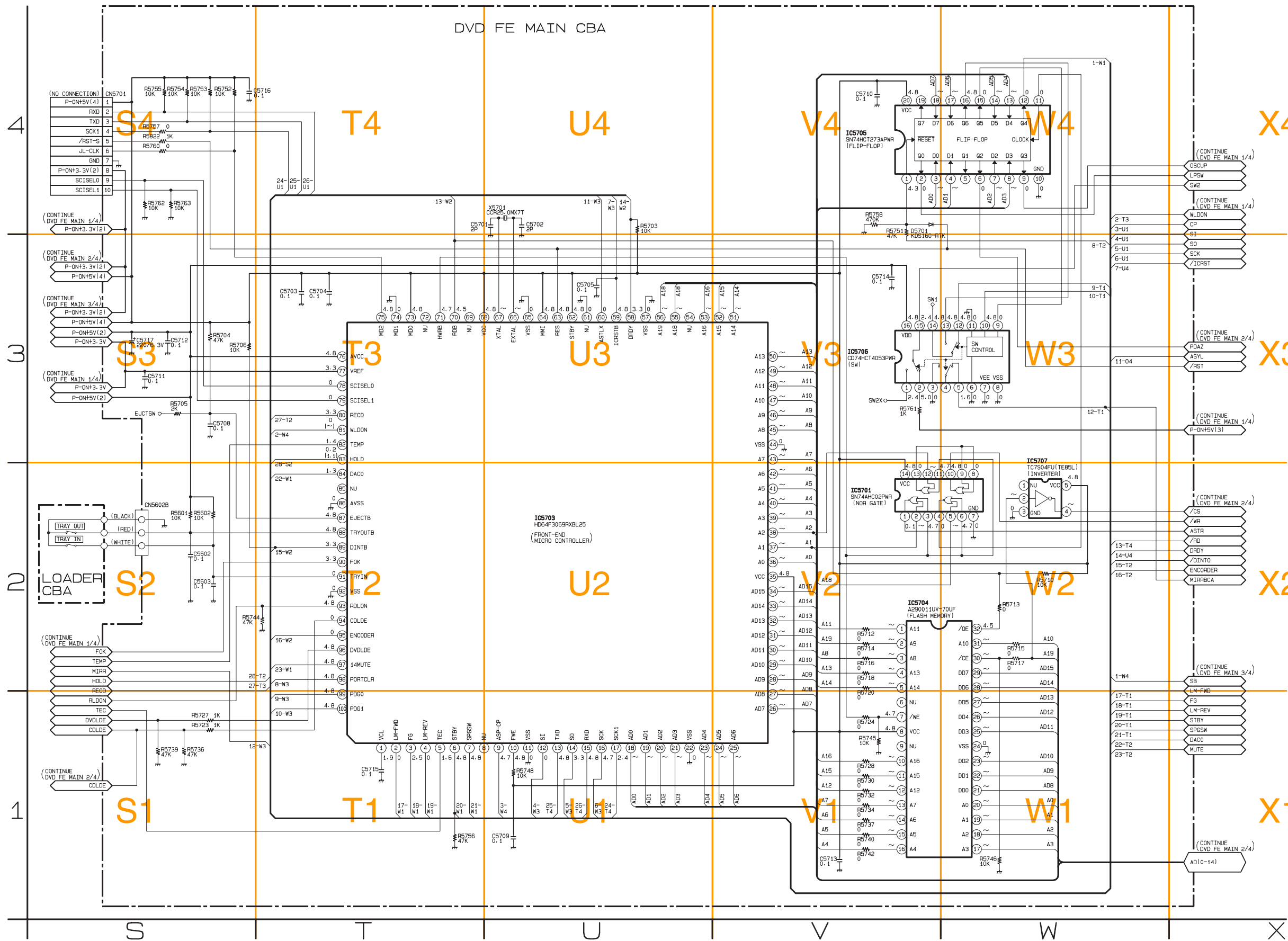
DVD FE MAIN 2/4	
Ref No.	Position
ICS	
IC5301	H-4
IC5804	G-4
TRANSISTORS	
Q5301	K-1
Q5302	I-4
Q5802	G-4
CONNECTOR	
CN5301	G-3

DVD FE Main 3/4 Schematic Diagram < DVD Section >



DVD FE MAIN 3/4	
Ref No.	Position
ICS	
IC5401	P-4
IC5501	P-3
IC5503	N-3
IC5601	N-3
IC5805	N-4
IC5806	N-3
CONNECTORS	
CN5501	M-2
CN5502B	R-1
CN5603	M-4
CN5603B	R-1
CN5801	R-2

DVD FE Main 4/4 Schematic Diagram < DVD Section >

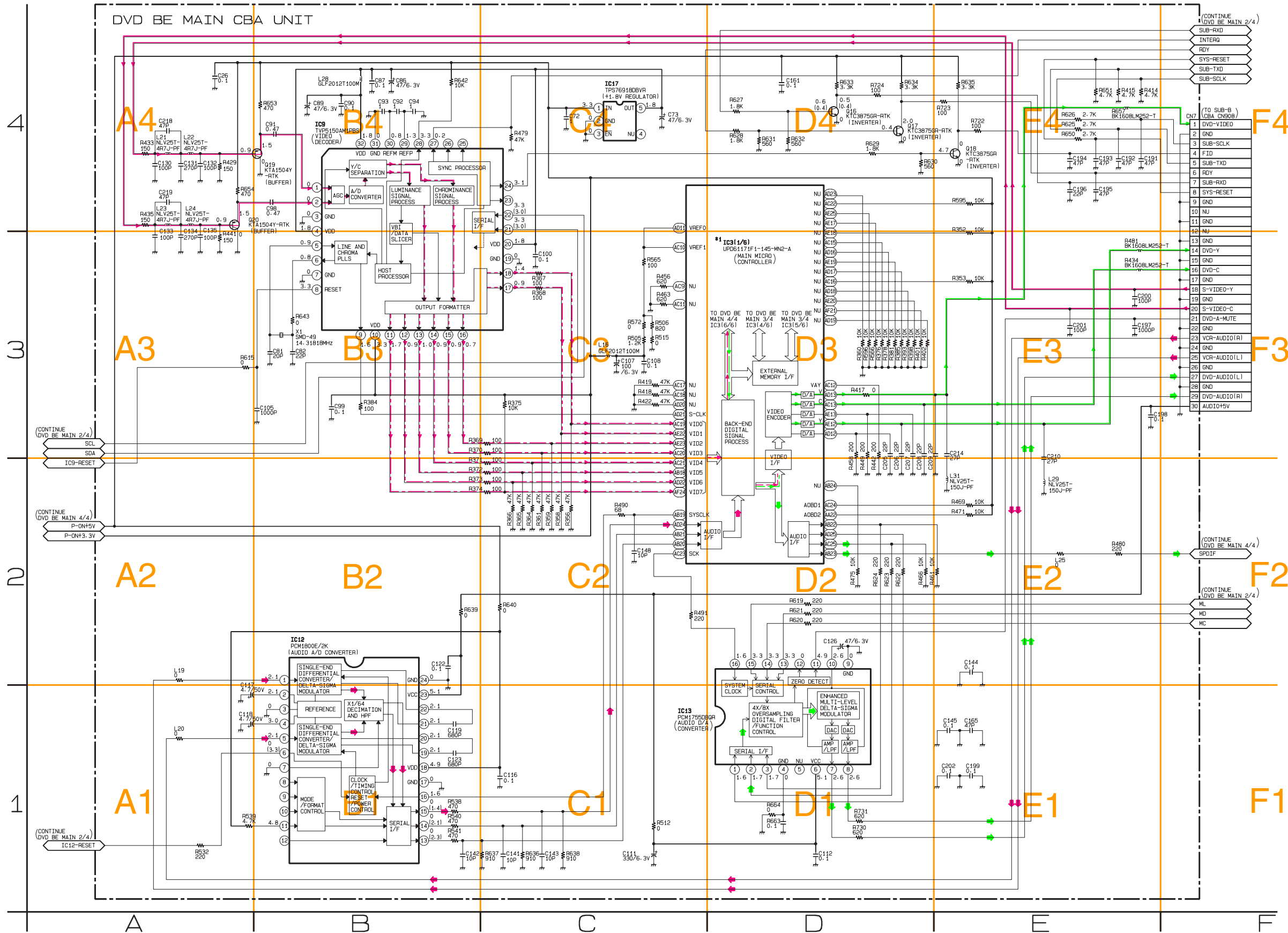


DVD FE MAIN 4/4	
Ref No.	Position
ICS	
IC5701	V-2
IC5703	U-2
IC5704	V-2
IC5705	V-4
IC5706	V-3
IC5707	W-2
CONNECTORS	
CN5701	S-4
CN5602B	S-2

DVD BE Main 1/4 Schematic Diagram < DVD Section >

*1 Note:

1. The order of pins shown are different from that of IC3 itself.
2. IC3 is shown as IC3(1/6) through IC3(6/6) in DVD BE Main Schematic Diagram section.

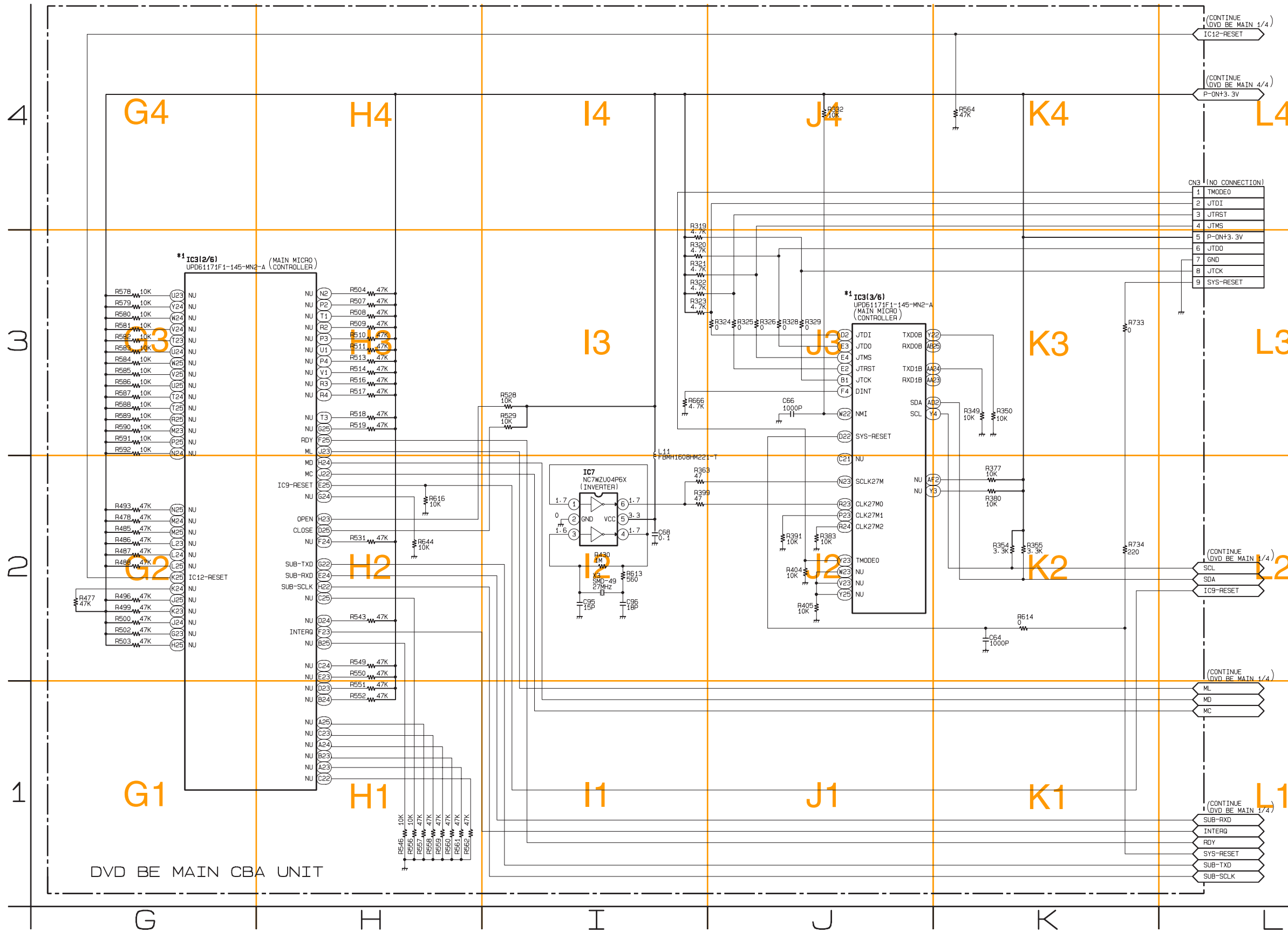


DVD BE MAIN 1/4	
Ref No.	Position
ICS	
IC3(1/6)	D-3
IC9	B-4
IC12	B-2
IC13	D-1
IC17	C-4
TRANSISTORS	
Q16	D-4
Q17	D-4
Q18	E-4
Q19	B-4
Q20	A-4
CONNECTOR	
CN7	F-4

DVD BE Main 2/4 Schematic Diagram < DVD Section >

***1 Note:**

1. The order of pins shown are different from that of IC3 itself.
2. IC3 is shown as IC3(1/6) through IC3(6/6) in DVD BE Main Schematic Diagram section.



DVD BE MAIN 2/4

Ref No.	Position
ICS	
IC3(2/6)	G-3
IC3(3/6)	J-3
IC7	I-2
CONNECTOR	
CN3	L-4

CN3 (NO CONNECTION)

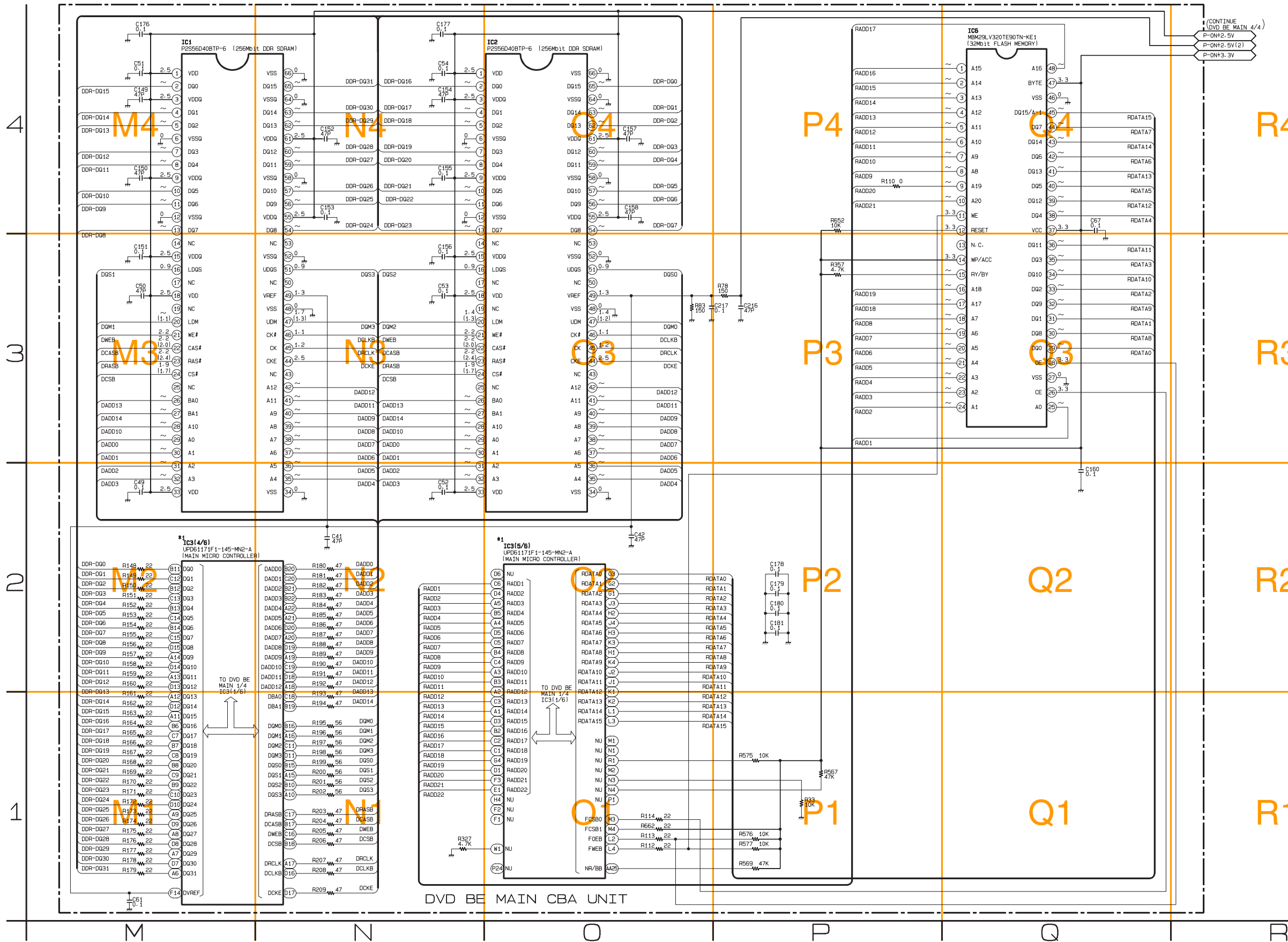
1	TMODE0
2	JTDI
3	JTRST
4	JTMS
5	P-ON+3.3V
6	JTDO
7	GND
8	JTCK
9	SYS-RESET

DVD BE MAIN CBA UNIT

DVD BE Main 3/4 Schematic Diagram < DVD Section >

*1 Note:

1. The order of pins shown are different from that of IC3 itself.
2. IC3 is shown as IC3(1/6) through IC3(6/6) in DVD BE Main Schematic Diagram section.

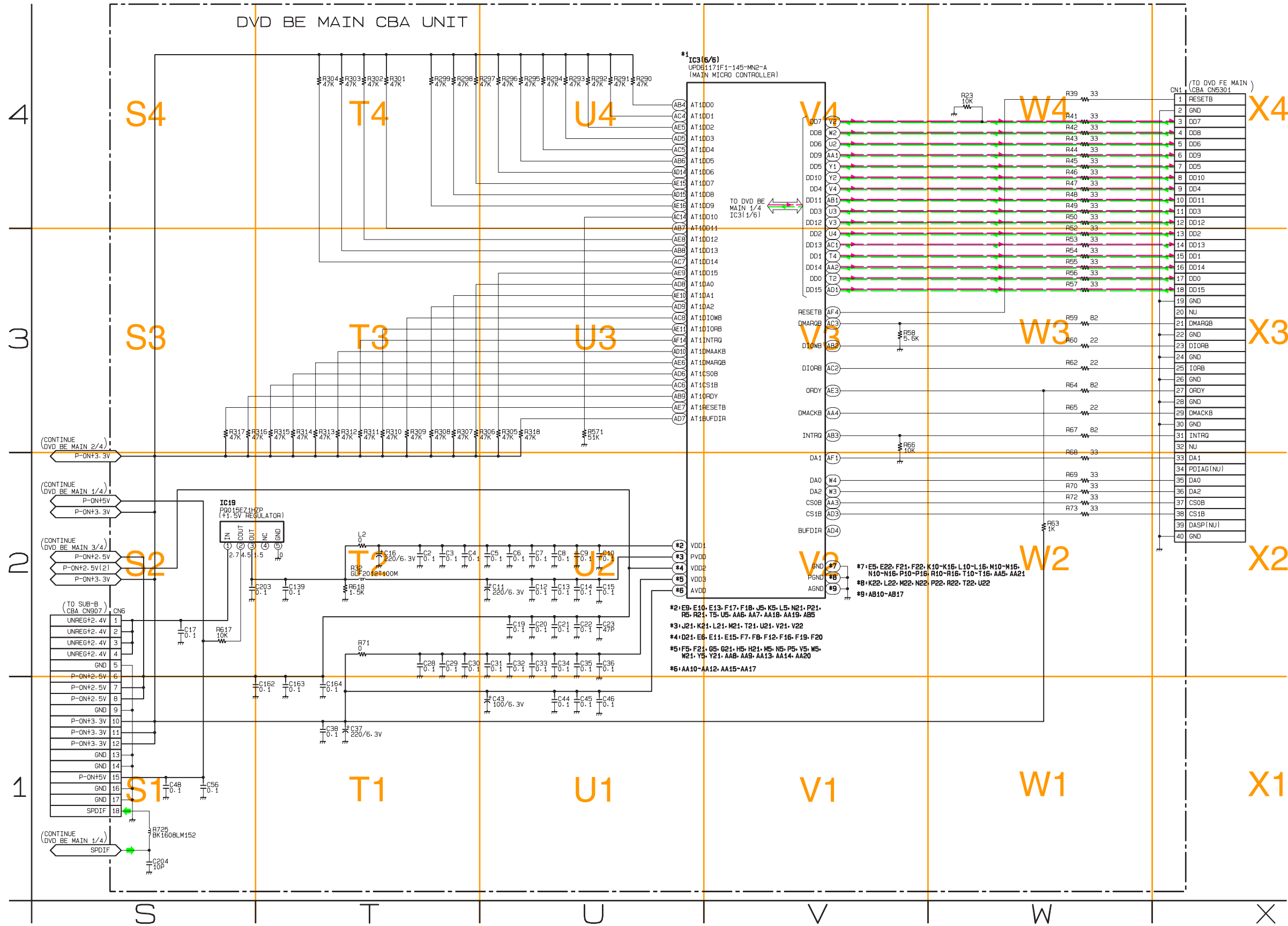
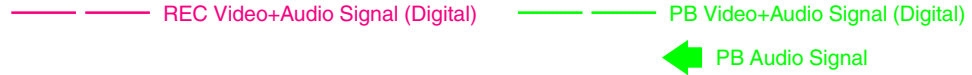


DVD BE MAIN 3/4	
Ref No.	Position
ICS	
IC1	M-4
IC2	O-4
IC3(4/6)	M-2
IC3(5/6)	O-2
IC6	Q-4

DVD BE Main 4/4 Schematic Diagram < DVD Section >

***1 Note:**

1. The order of pins shown are different from that of IC3 itself.
2. IC3 is shown as IC3(1/6) through IC3(6/6) in DVD BE Main Schematic Diagram section.



DVD BE MAIN 4/4

Ref No.	Position
ICS	
IC3(6/6)	V-4
IC19	S-2
CONNECTORS	
CN1	X-4
CN6	S-2

- *2: E9, E10, E13, F17, F18, J5, K5, L5, N21, P21, R5, R21, T5, U5, AA6, AA7, AA18, AA19, AB5
- *3: J21, K21, L21, M21, T21, U21, V21, V22
- *4: D21, E6, E11, E15, F7, F8, F12, F16, F19, F20
- *5: F5, F21, G5, G21, H5, H21, M5, N5, P5, V5, W5, W21, Y5, Y21, AA8, AA9, AA13, AA14, AA20
- *6: AA10-AA12, AA15-AA17
- *7: E5, E22, F21, F22, K10-K16, L10-L16, M10-M16, N10-N16, P10-P16, R10-R16, T10-T16, AA5, AA21
- *8: K22, L22, M22, N22, P22, R22, T22, U22
- *9: AB10-AB17

Main CBA Top View < TV/VCR Section >

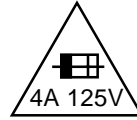
BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

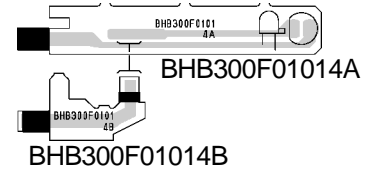
NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



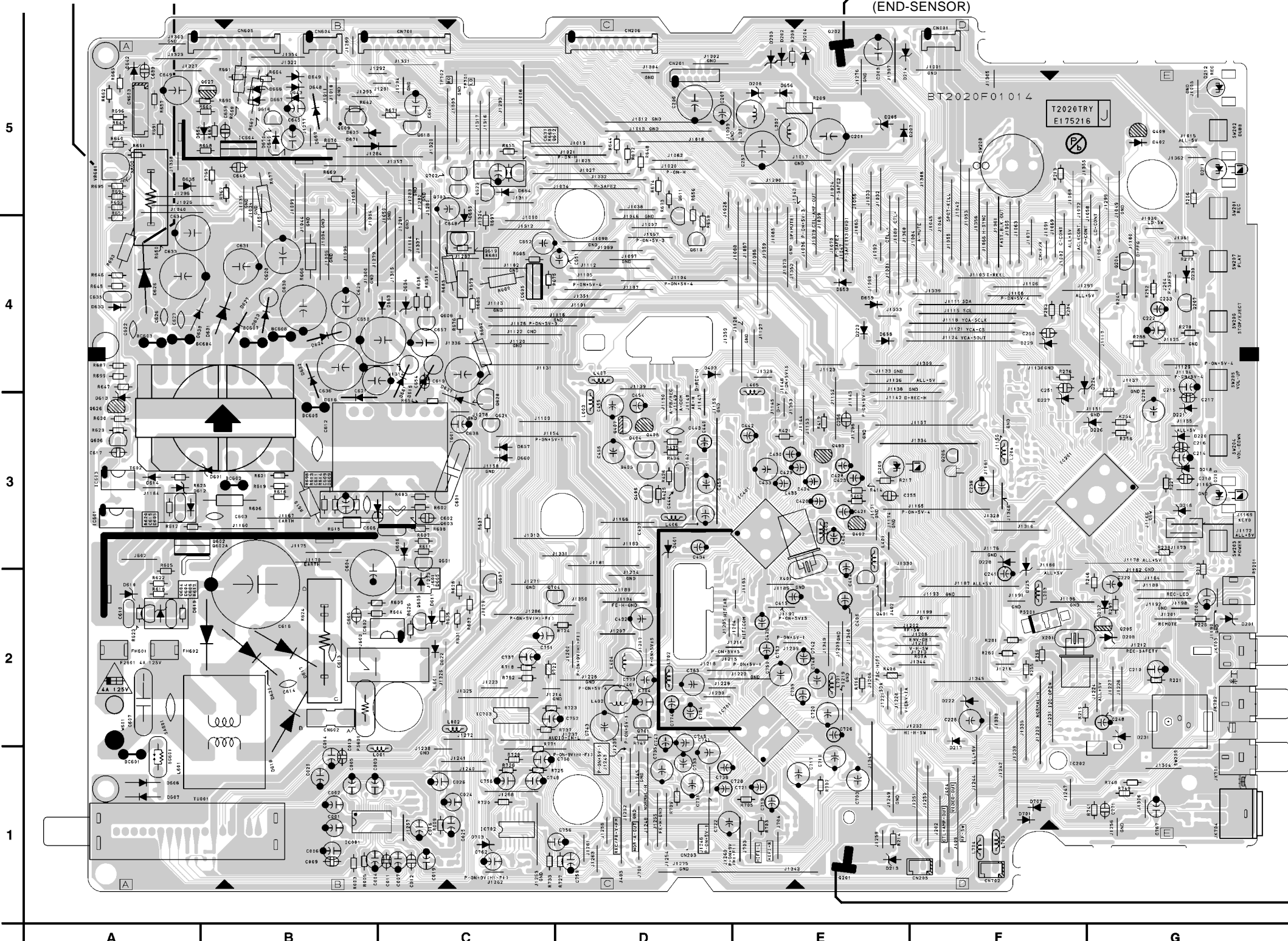
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A, 125V. **ATTENTION:** UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE 4A, 125V.

Sensor CBA Top View



VR601
+B ADJ

D626 Cathode
(+B Adjustment)



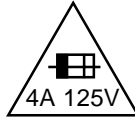
MAIN CBA

Ref No.	Position	Ref No.	Position
ICS		TRANSISTORS	
IC001	B-1	Q618	C-5
IC201	F-3	Q619	C-4
IC202	F-1	Q620	C-3
IC401	E-3	Q621	C-3
IC601	A-3	Q623	C-5
IC602	B-2	Q626	A-3
IC603	A-3	Q627	A-5
IC604	B-5	Q701	D-2
IC605	C-4	Q702	C-5
IC701	D-2	Q703	C-5
IC702	C-1	Q704	D-2
IC703	C-2	CONNECTORS	
TRANSISTORS		CN001	F-5
Q205	G-2	CN201	D-5
Q206	F-3	CN202	D-4
Q401	E-2	CN203	D-1
Q402	E-3	CN204	D-2
Q403	E-3	CN206	D-5
Q404	D-3	CN602	B-2
Q405	D-3	CN603	A-5
Q406	D-3	CN604	B-5
Q407	D-3	CN605	B-5
Q408	D-3	CN701	C-5
Q409	G-5	CN702	F-5
Q601	C-3	TEST POINTS	
Q602A	B-3	J202	F-1
Q603	C-3	J403	D-1
Q604	A-2	J404	F-1
Q605	C-2	J405	F-1
Q606	A-3	J701	D-1
Q607	C-2	J703	E-1
Q608	C-4	J704	E-1
Q609	B-5	TP701	C-5
Q610	D-4	TP702	C-5
Q611	D-5	VARIABLE RESISTOR	
Q612	C-5	VR601	A-5
Q616	B-5		

Main CBA Bottom View < TV/VCR Section >

CAUTION !

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
 If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
 Otherwise it may cause some components in the power supply circuit to fail.



CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE 4A, 125V FUSE.
ATTENTION: UTILISER UN FUSIBLE DE REMPLACEMENT DE MÊME TYPE DE 4A, 125V.

NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.

WF8
 PIN 9
 OF IC401

WF7
 PIN 10
 OF IC401

WF16
 PIN 59
 OF IC201

WF15
 PIN 58
 OF IC201

WF4
 PIN 32
 OF IC401

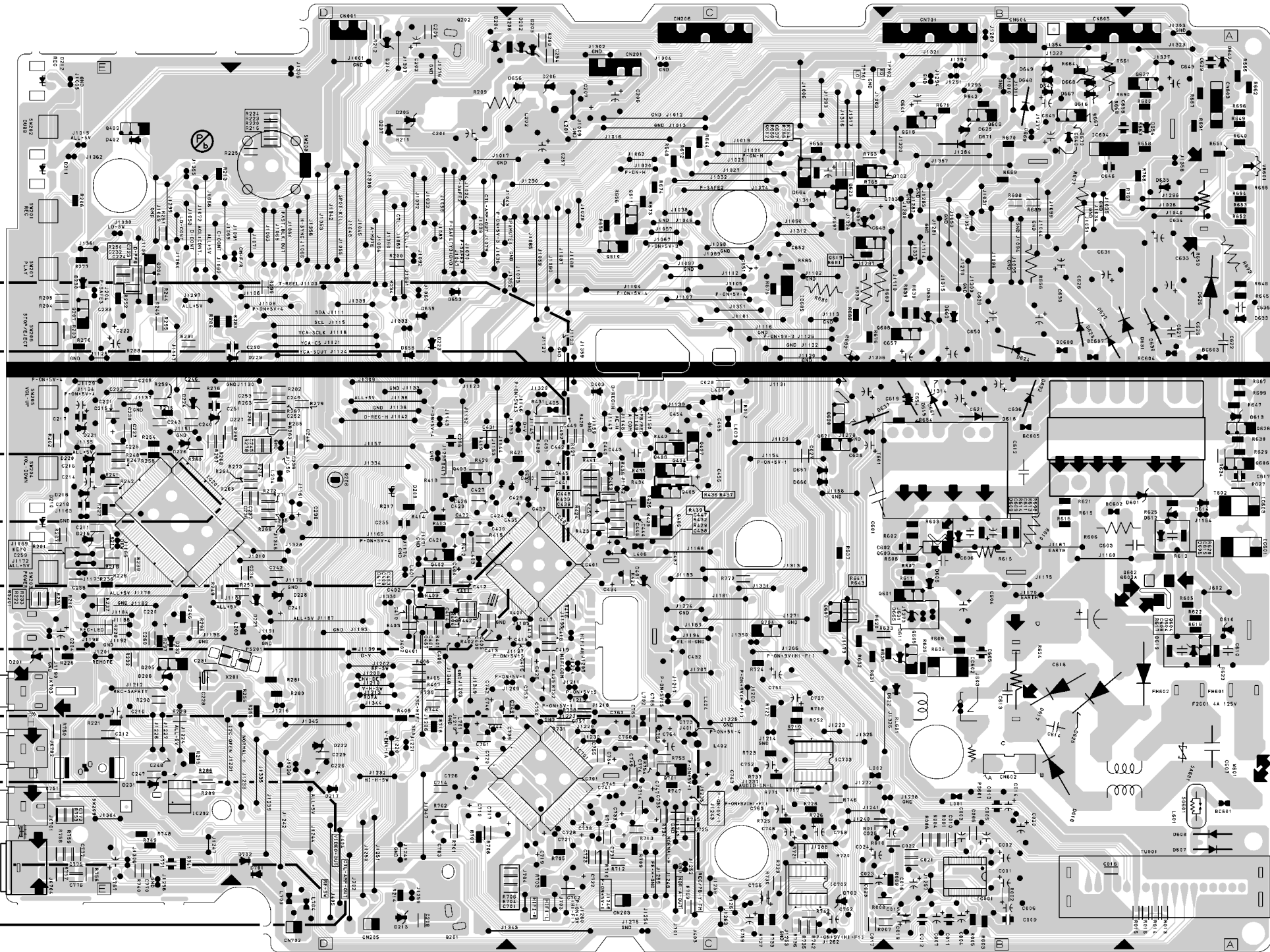
WF2
 PIN 49
 OF IC401

WF6
 J403
 ENV.

WF5
 J404
 V-OUT

WF1
 J405
 RF-SW

WF3
 J202
 CTL-AMP-OUT



G

F

E

D

C

B

A

5

4

3

2

1

Sub-A CBA Top View < TV/VCR Section >

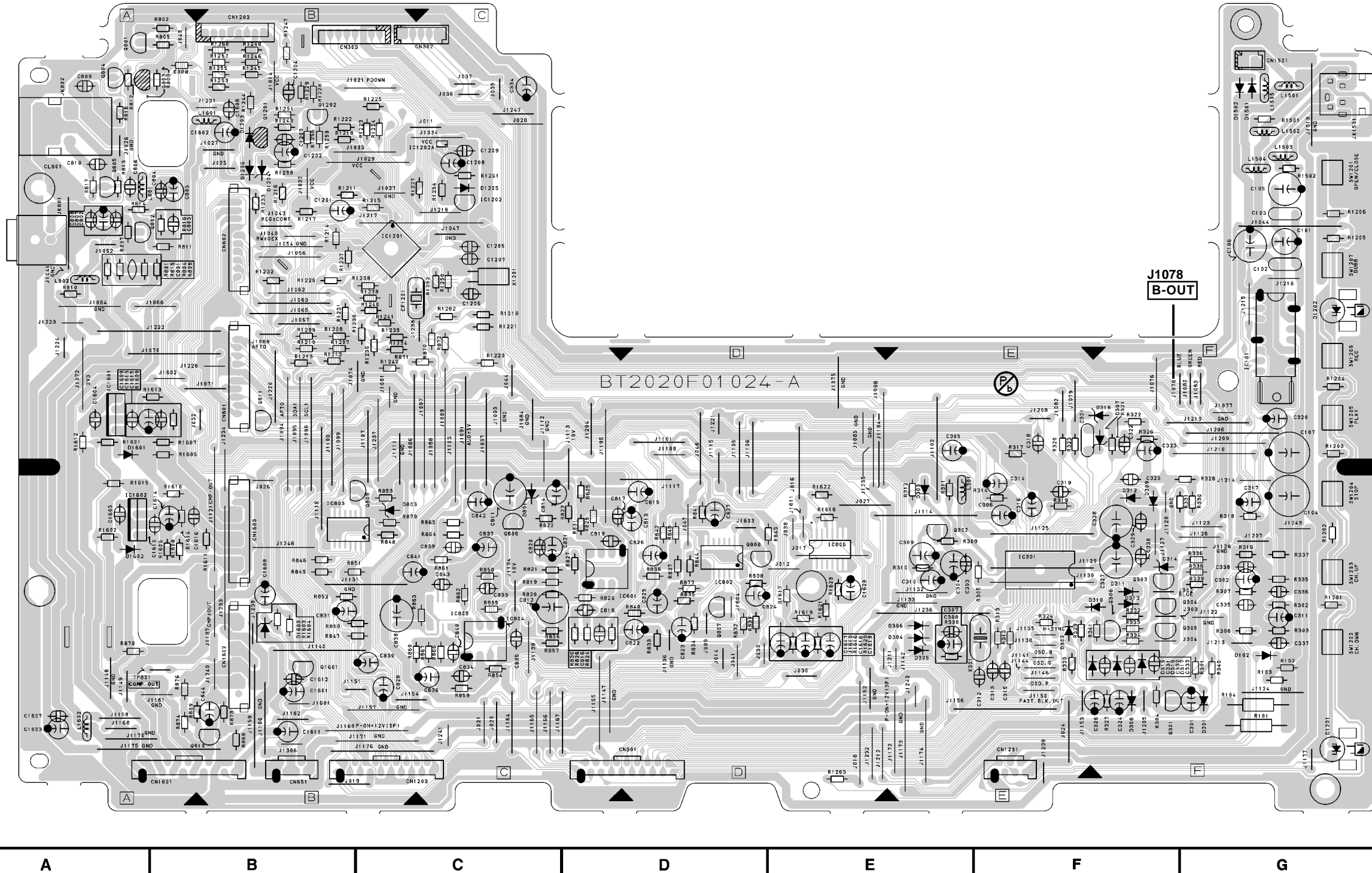
5

4

3

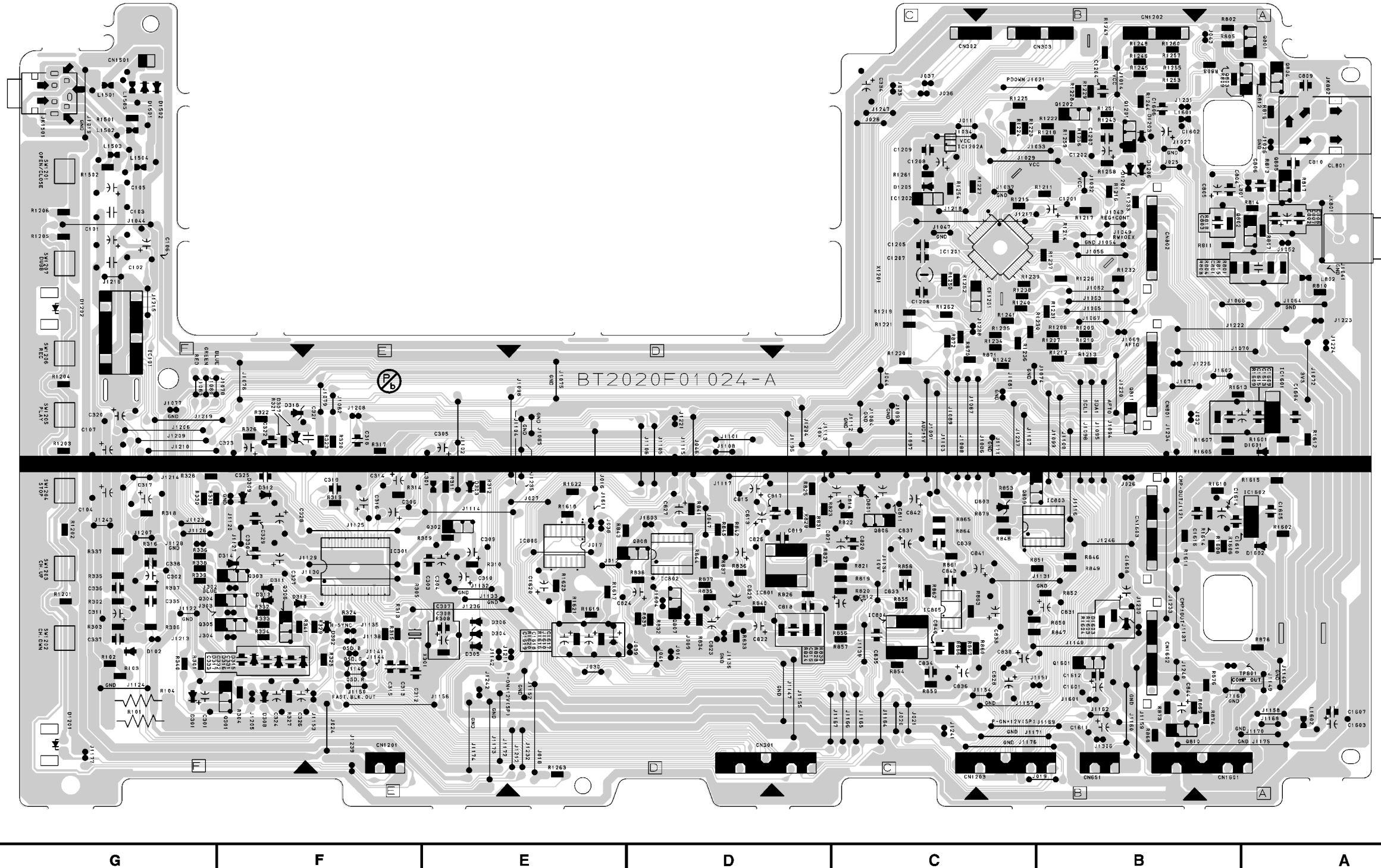
2

1

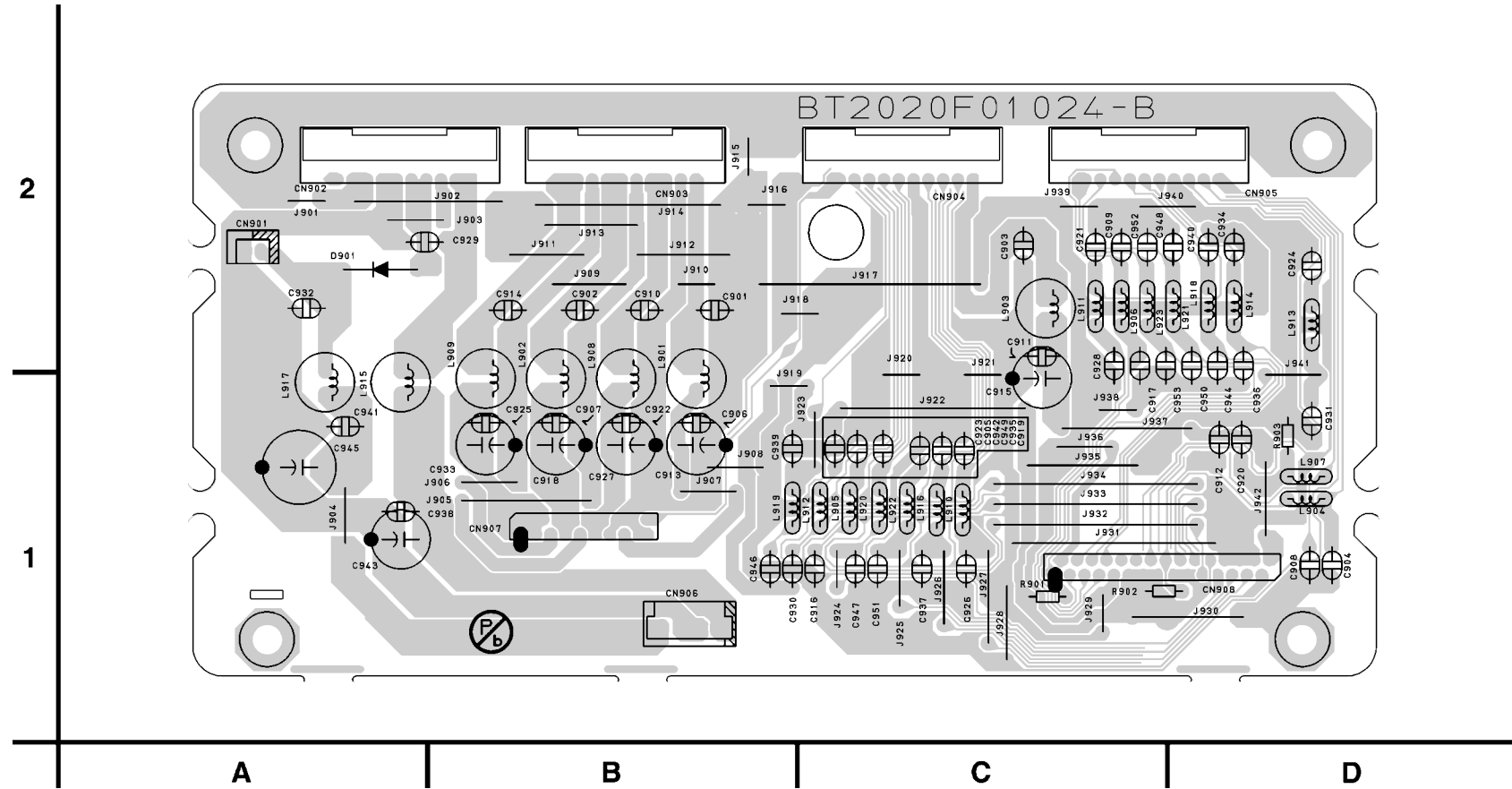


SUB-A CBA		
Ref No.	Position	
ICS		
IC101	G-3	
IC301	F-2	
IC801	D-2	
IC803	B-2	
IC804	C-2	
IC805	C-2	
IC1201	C-3	
IC1202	C-4	
IC1601	A-3	
IC1602	A-2	
TRANSISTORS		
Q301	F-1	
Q302	E-2	
Q303	F-2	
Q304	G-2	
Q305	G-2	
Q306	F-2	
Q801	A-4	
Q802	B-4	
Q803	B-4	
Q806	C-2	
Q809	C-2	
Q811	B-3	
Q1601	B-1	
CONNECTORS		
CN301	D-1	
CN302	C-4	
CN303	B-4	
CN651	B-1	
CN801	B-3	
CN802	B-3	
CN1201	F-1	
CN1202	B-5	
CN1203	C-1	
CN1501	G-4	
CN1601	B-1	
CN1602	B-1	
CN1603	B-2	
TEST POINT		
TP801	B-1	

Sub-A CBA Bottom View < TV/VCR Section >



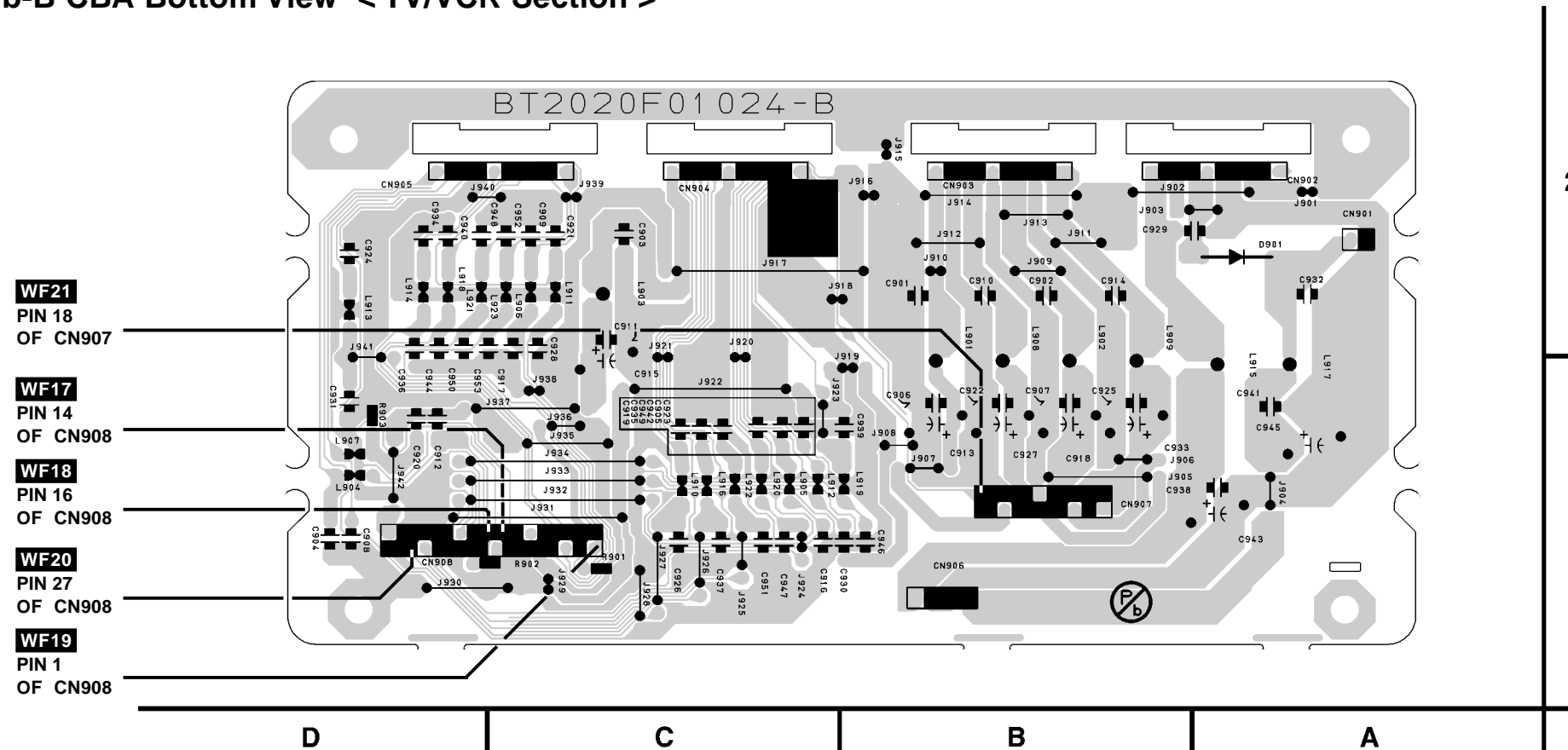
Sub-B CBA Top View < TV/VCR Section >



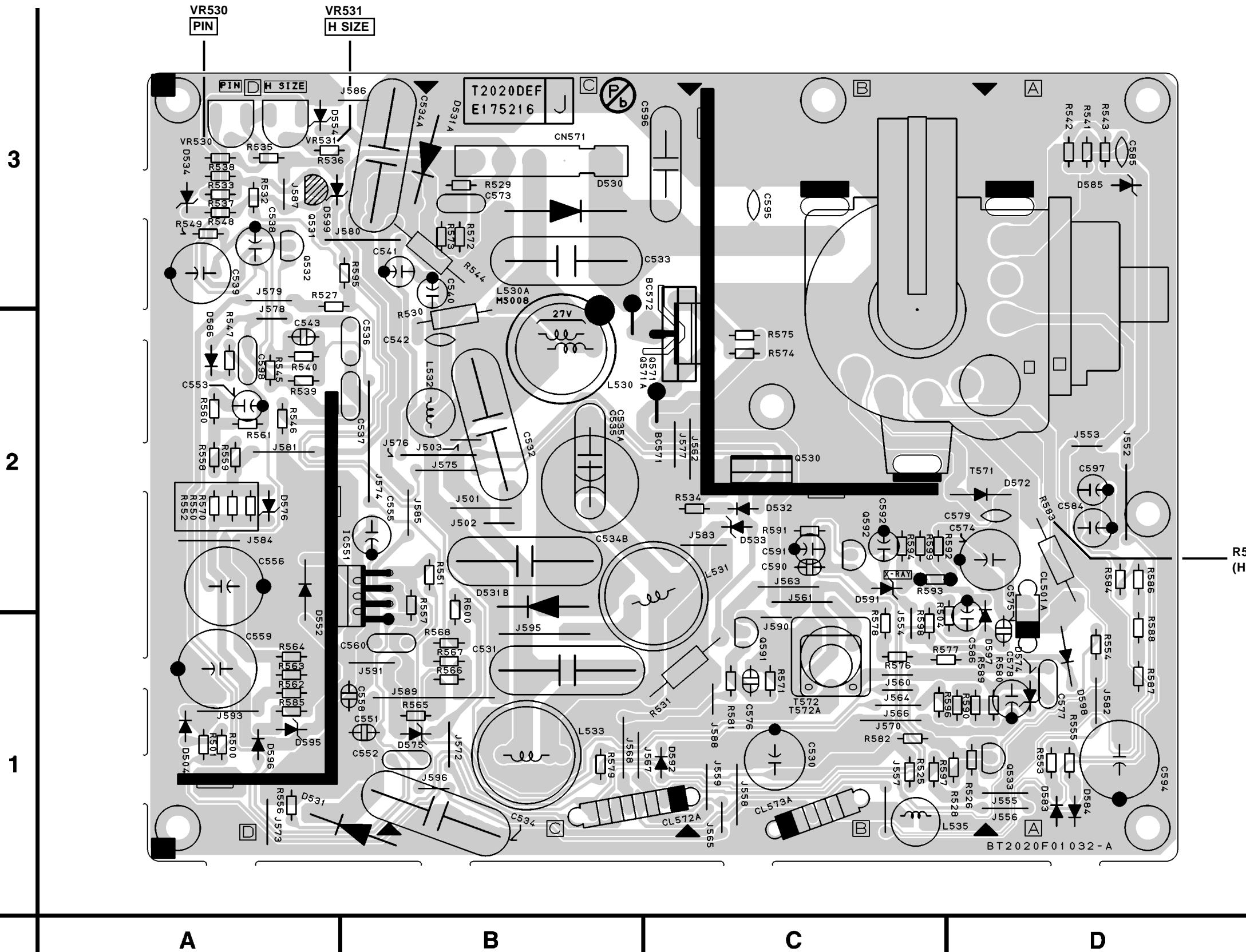
SUB-B CBA

CONNECTORS	
CN901	A-2
CN902	A-2
CN903	B-2
CN904	C-2
CN905	D-2
CN906	B-1
CN907	B-1
CN908	D-1

Sub-B CBA Bottom View < TV/VCR Section >



H.V. CBA Top View < TV/VCR Section >



H.V. CBA

Ref No.	Position
IC	
IC551	B-2
TRANSISTORS	
Q530	C-2
Q531	A-3
Q532	A-3
Q533	D-1
Q591	C-1
Q592	C-2
Q571A	C-2
CONNECTORS	
CL501A	D-2
CL572A	C-1
CL573A	C-1
CN571	B-3
VARIABLE RESISTORS	
VR530	A-3
VR531	A-3

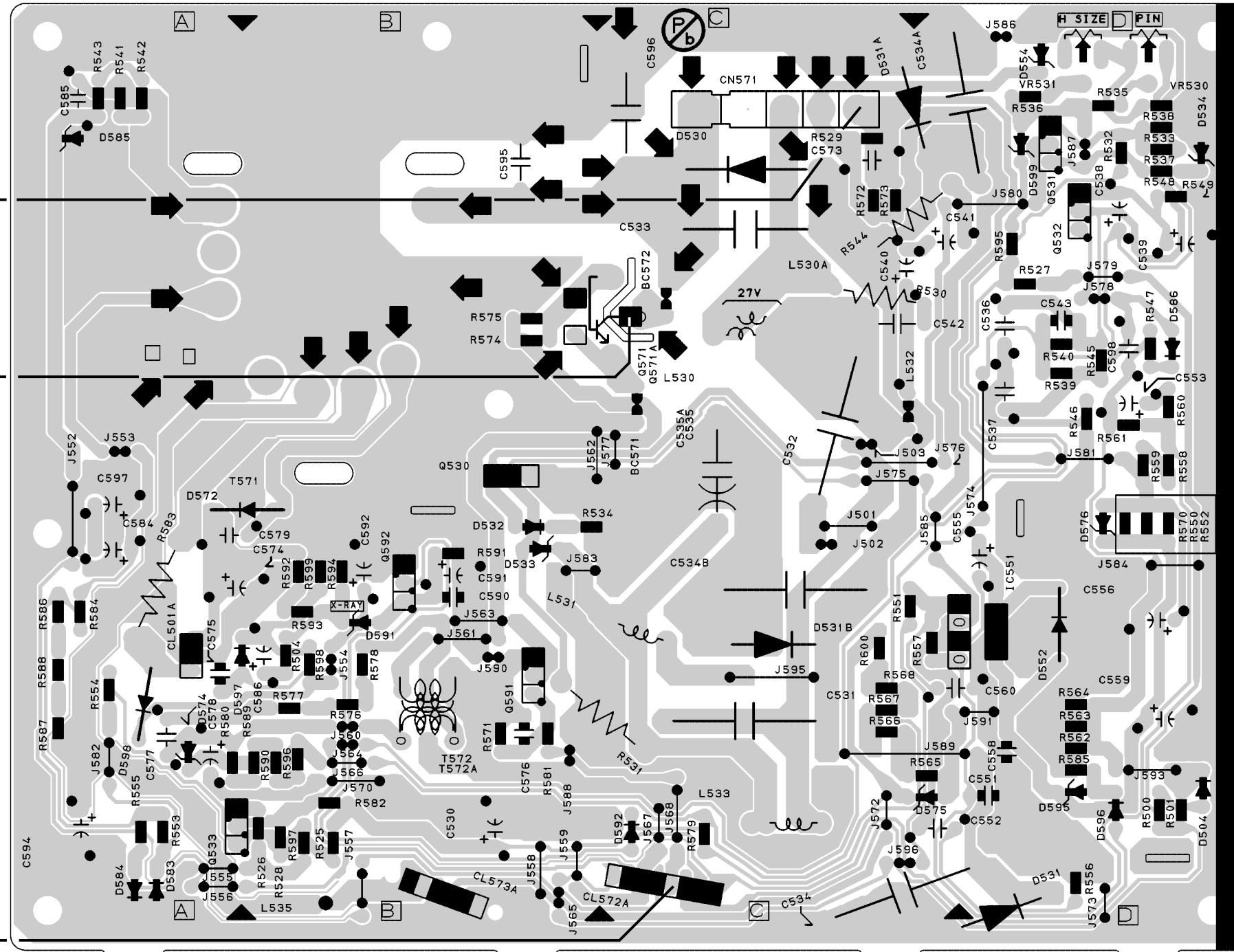
R583
(H Adjustment)

H.V. CBA Bottom View < TV/VCR Section >

WF11
PIN 5
OF CN571

WF10
Q571A
Collector

WF9
PIN 5
OF CL572A



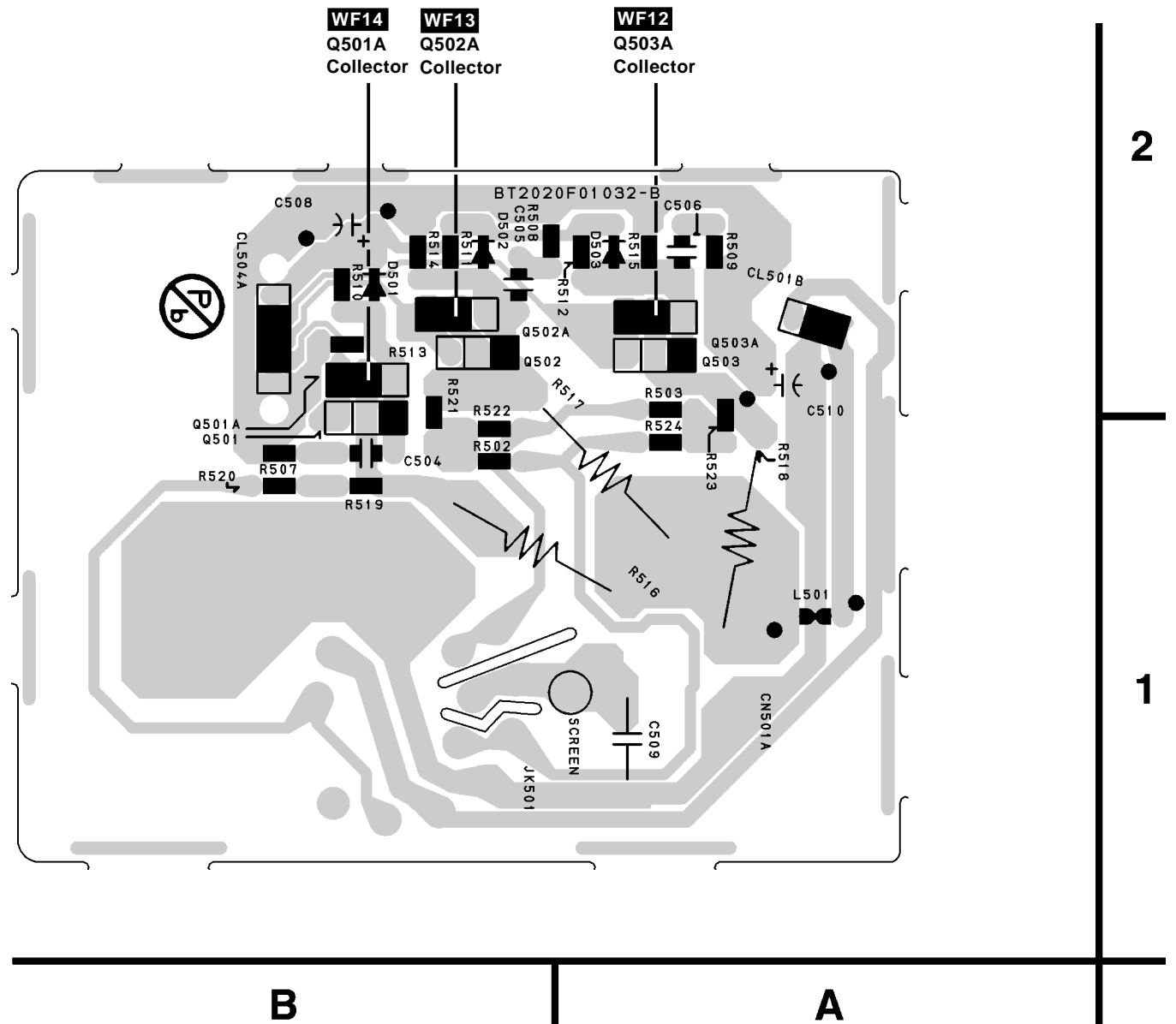
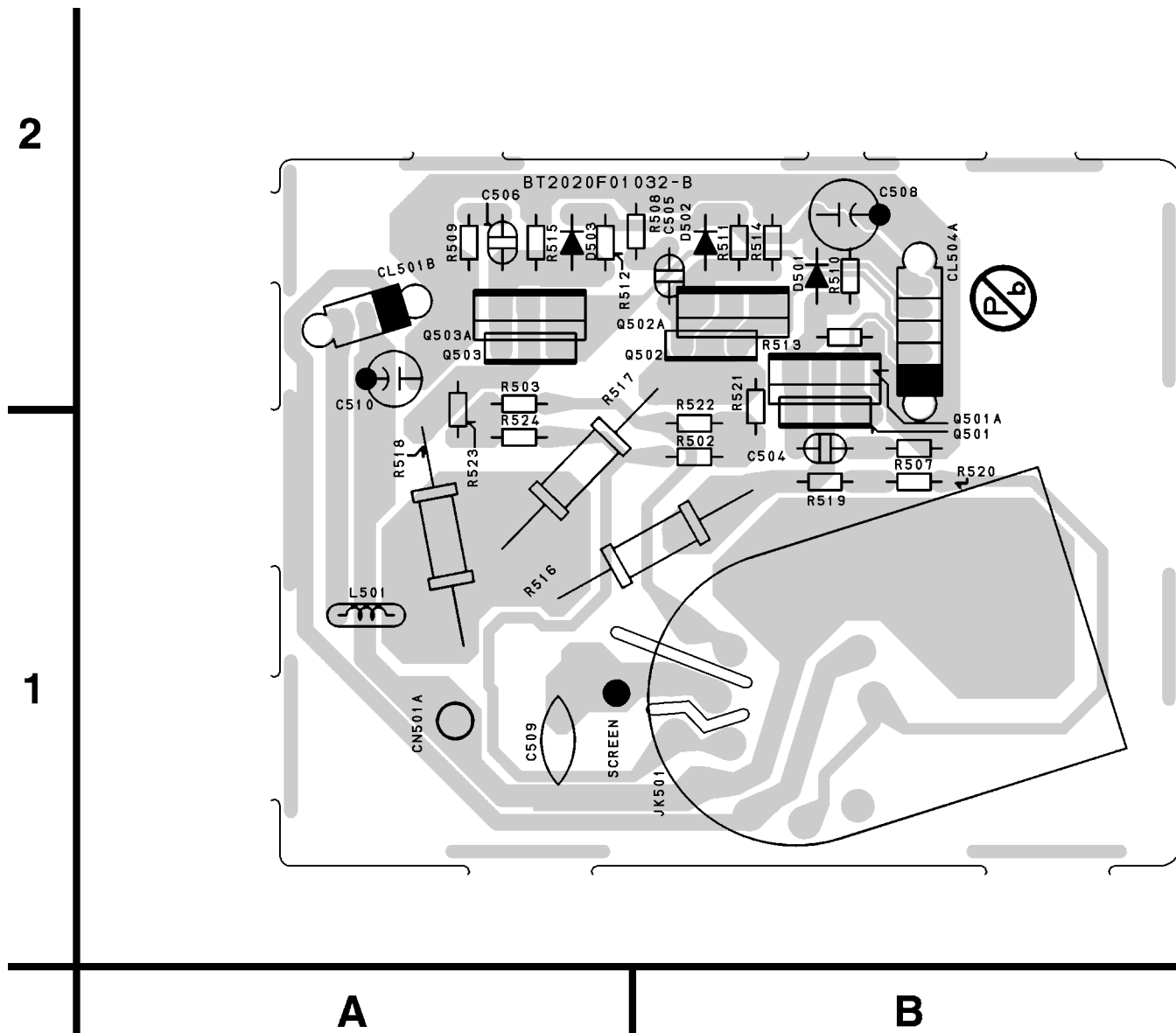
D | C | B | A

3
2
1

CRT CBA Top View < TV/VCR Section >

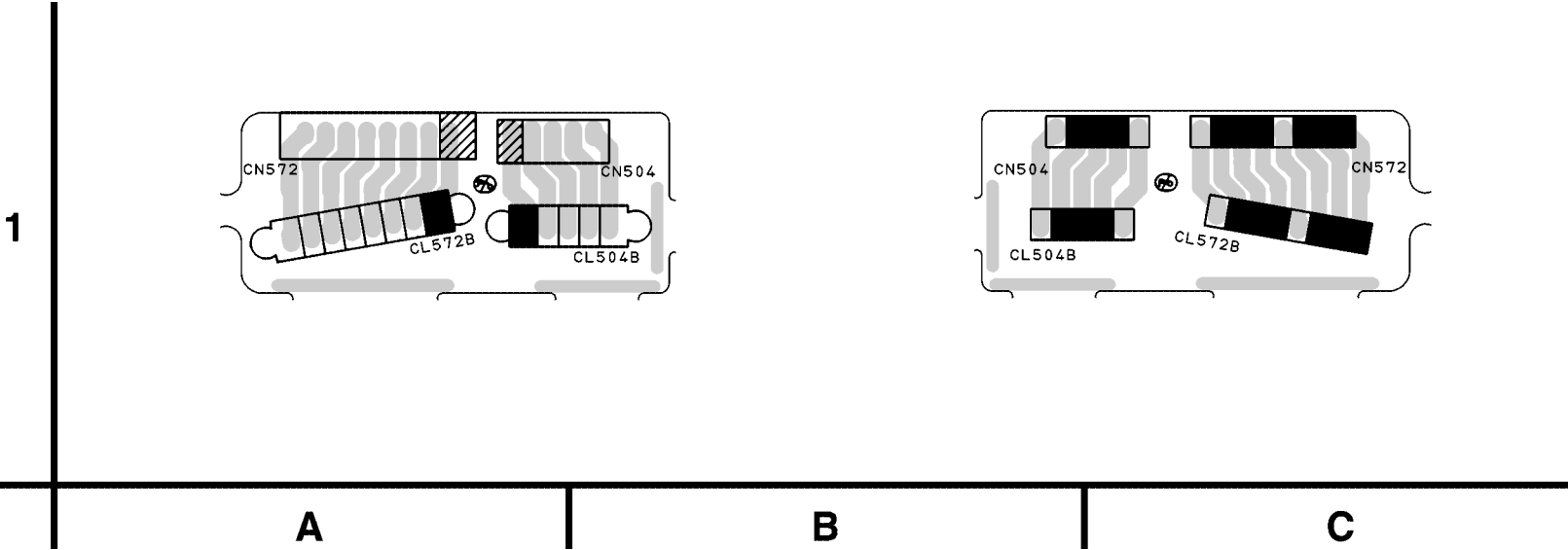
CRT CBA Bottom View < TV/VCR Section >

CRT CBA	
Ref No.	Position
TRANSISTORS	
Q501A	B-2
Q502A	B-2
Q503A	A-2
CONNECTORS	
CL501B	A-2
CL504A	B-2
CN501A	A-1



Junction-A CBA Top View

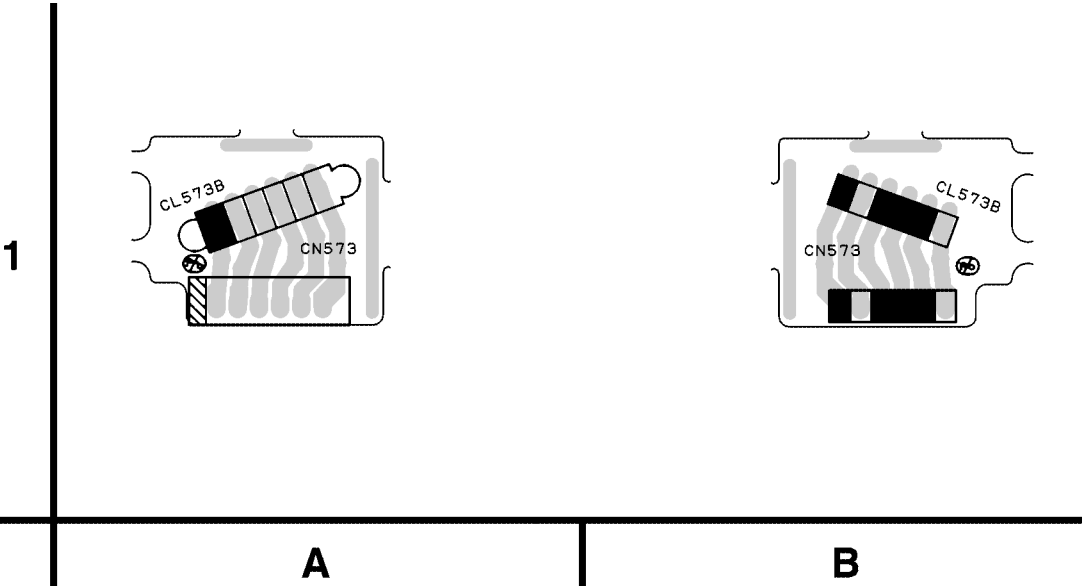
Junction-A CBA Bottom View



BT2020F01032

Junction-B CBA Top View

Junction-B CBA Bottom View



BT2020F01032

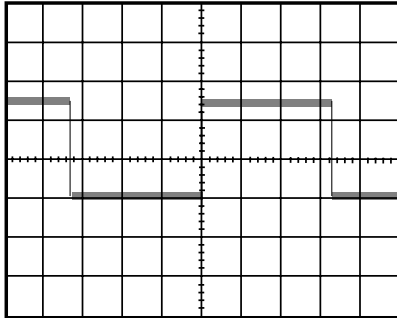
WAVEFORMS

Input:

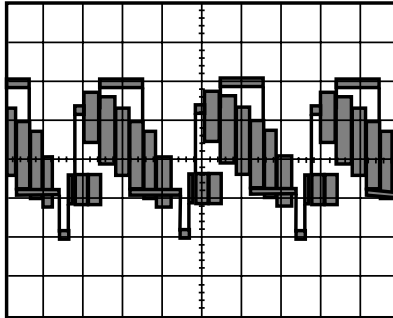
NTSC Color Bar Signal (with 1kHz Audio Signal)

INITIAL POSITION: Unplug unit from AC outlet for at least five minutes, reconnect to AC outlet and then turn power on.

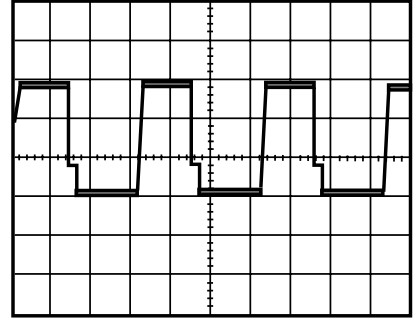
(Brightness---Center Color---Center Tint --- Center Contrast---Approx 70%)



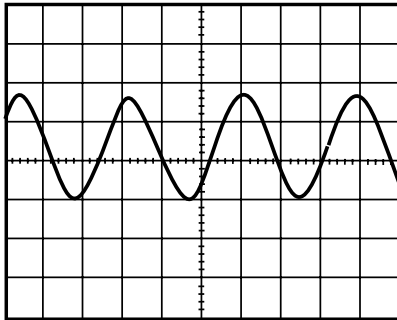
WF1 1DIV: 2V 5ms
J405 RF-SW



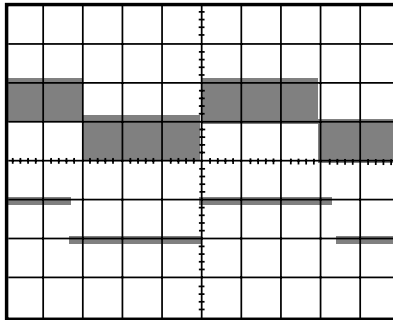
WF5 1DIV: 0.5V 20 μ s
J404 V-OUT



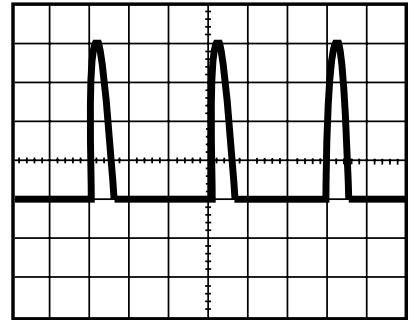
WF9 1DIV: 1V 20 μ s
CL572A PIN 5



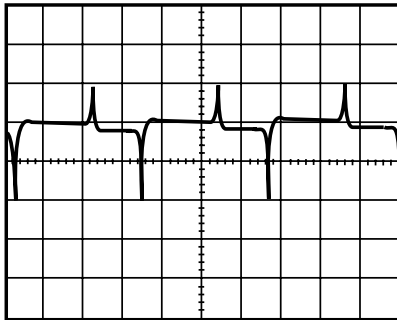
WF2 1DIV: 0.2V 0.1 μ s
IC401 Pin 49



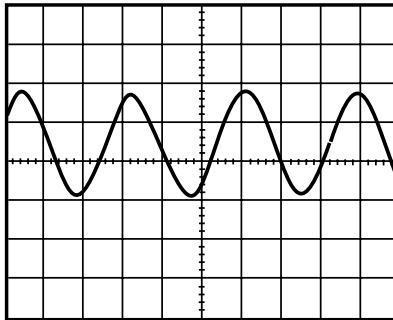
Upper: **WF6** Lower: **WF1**
1DIV: 0.2V 2DIV: 5V 5ms
J403 ENV.



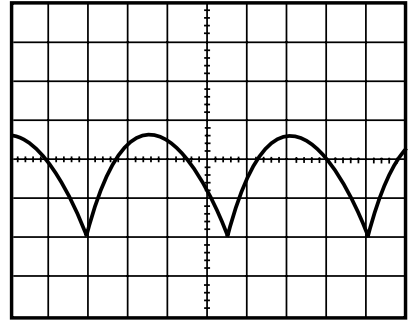
WF10 1DIV: 200V 20 μ s
Q571A COLLECTOR



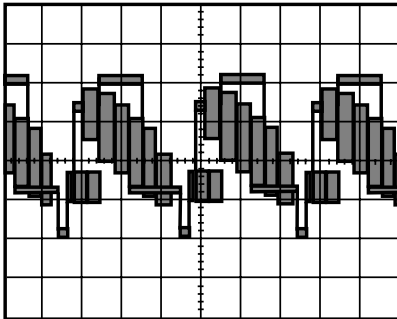
WF3 1DIV: 1V 10ms
J202 CTL-AMP-OUT



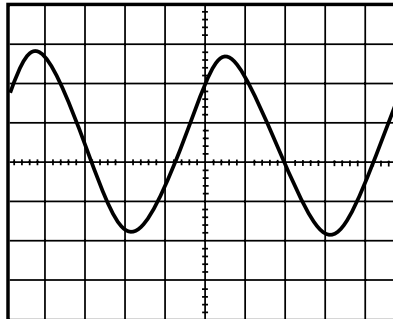
WF7 1DIV: 0.5V 0.5ms
IC401 PIN10



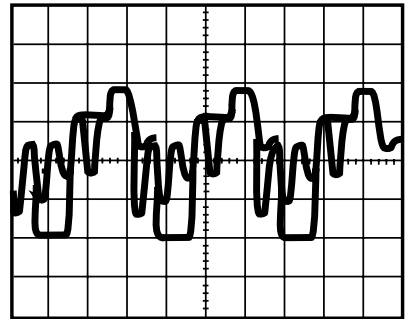
WF11 1DIV: 2V 5ms
CN571 PIN 5



WF4 1DIV: 0.25V 20 μ s
IC401 Pin 32



WF8 1DIV: 0.5V 0.5ms
IC401 PIN9



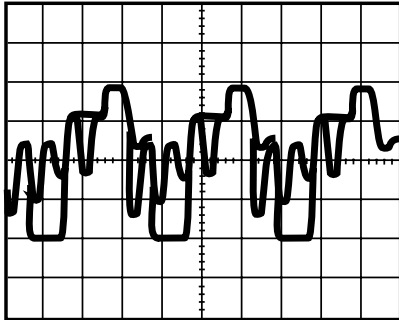
WF12 1DIV: 20V 20 μ s
Q503A COLLECTOR

Input:

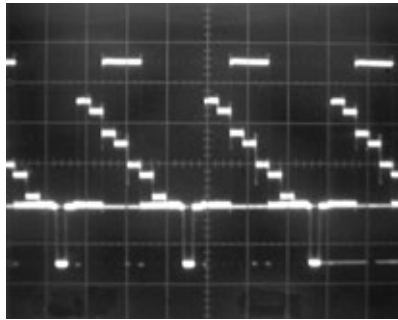
NTSC Color Bar Signal (with 1kHz Audio Signal)

INITIAL POSITION: Unplug unit from AC outlet for at least five minutes, reconnect to AC outlet and then turn power on.

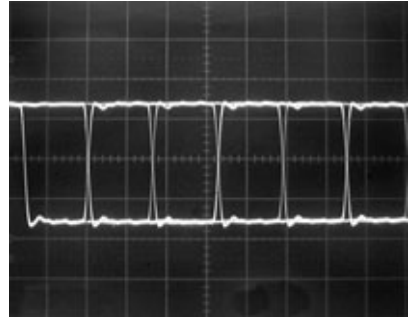
(Brightness---Center Color---Center Tint --- Center Contrast---Approx 70%)



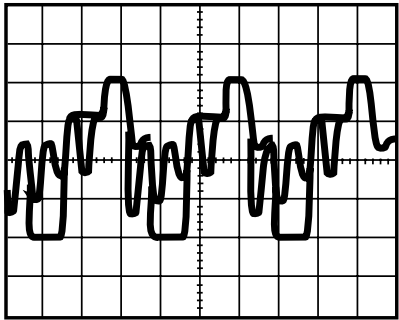
WF13 1DIV: 20V 20 μ s
Q502 COLLECTOR



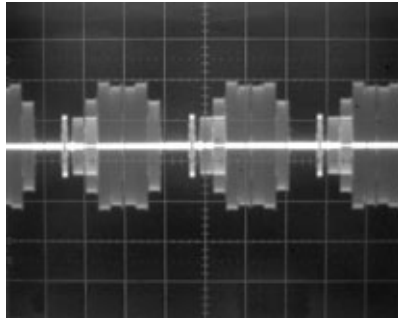
WF17 1DIV: 0.2V 20 μ s
CN908 PIN 14



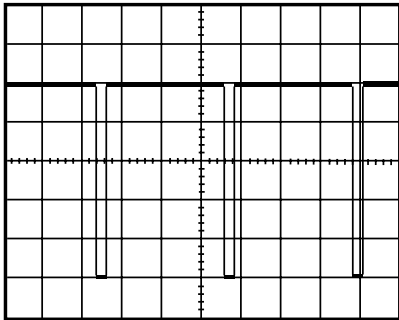
WF21 1DIV: 1V 0.1 μ s
CN907 PIN 18



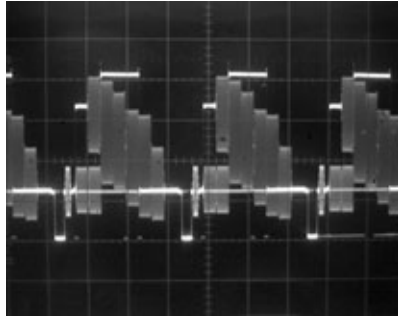
WF14 1DIV: 20V 20 μ s
Q501 COLLECTOR



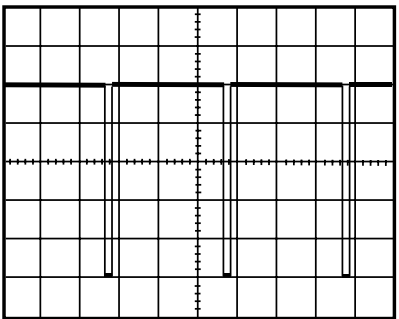
WF18 1DIV: 0.2V 20 μ s
CN908 PIN 16



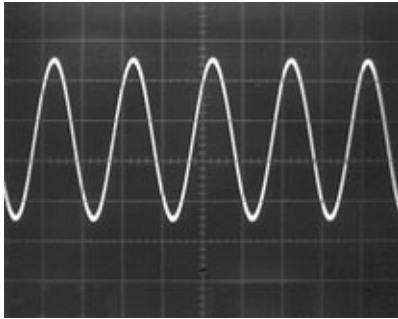
WF15 1DIV: 1V 20 μ s
IC201 PIN 58



WF19 1DIV: 1V 0.5ms
CN908 PIN 1



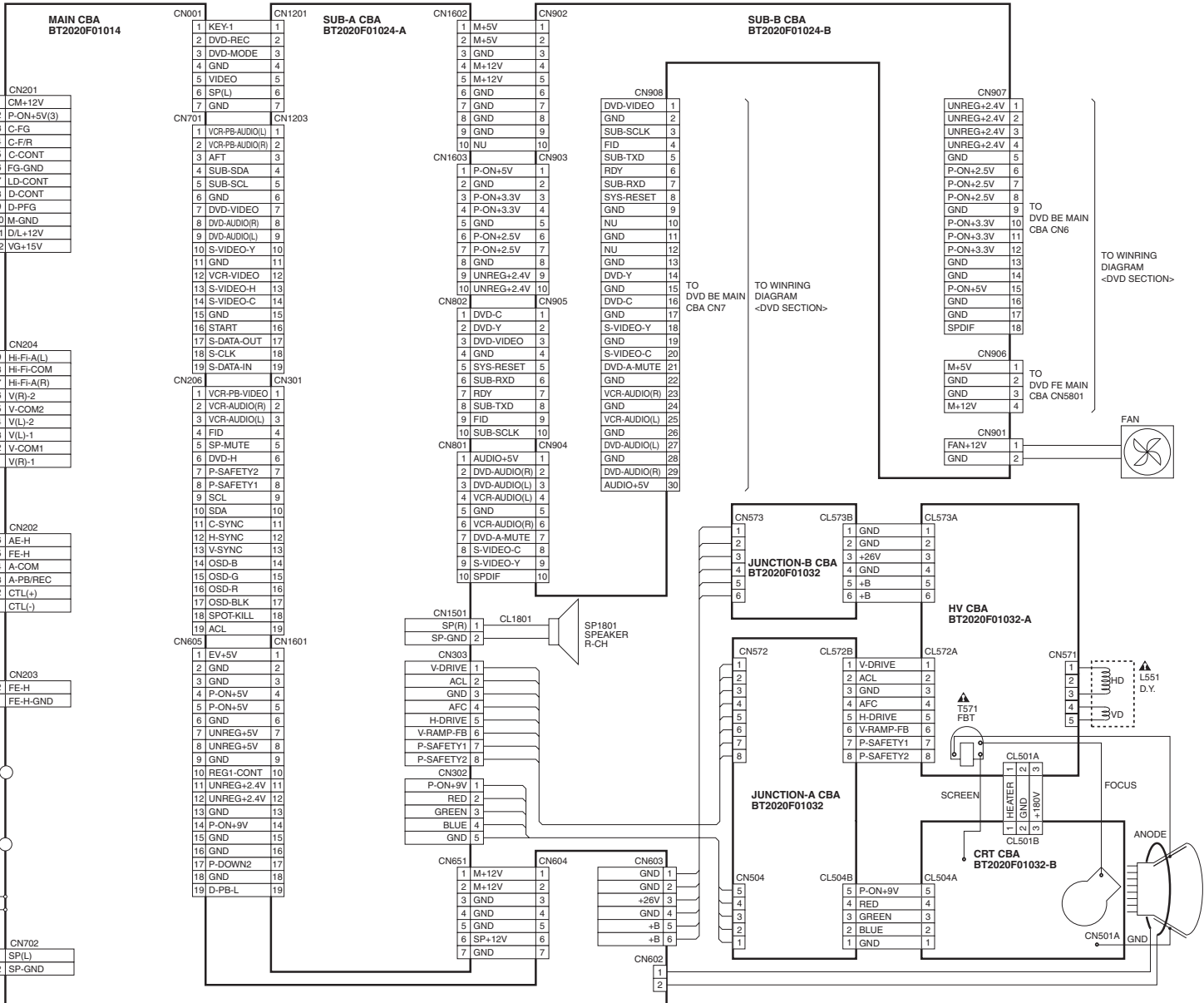
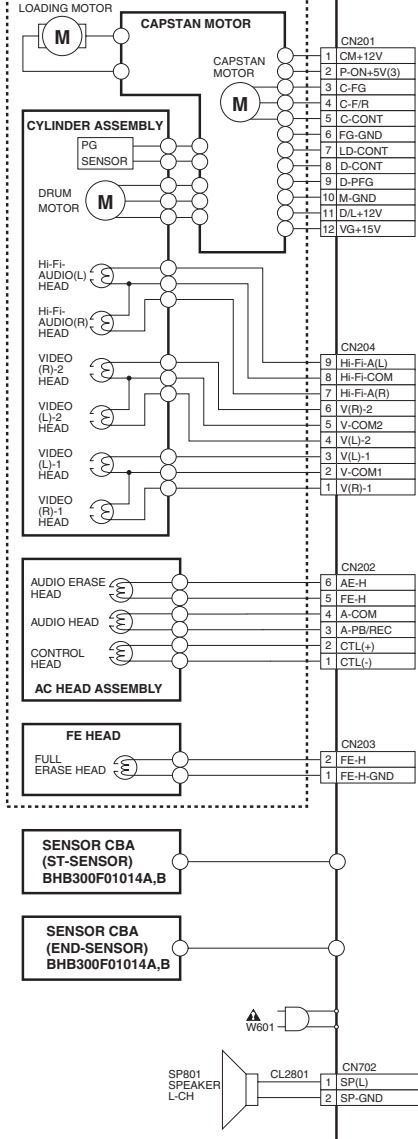
WF16 1DIV: 1V 5ms
IC201 PIN 59



WF20 1DIV: 1V 0.1 μ s
CN908 PIN 27

WIRING DIAGRAM < TV/VCR Section >

WIRING DIAGRAM FOR SECTION 2 (DECK MECHANISM)

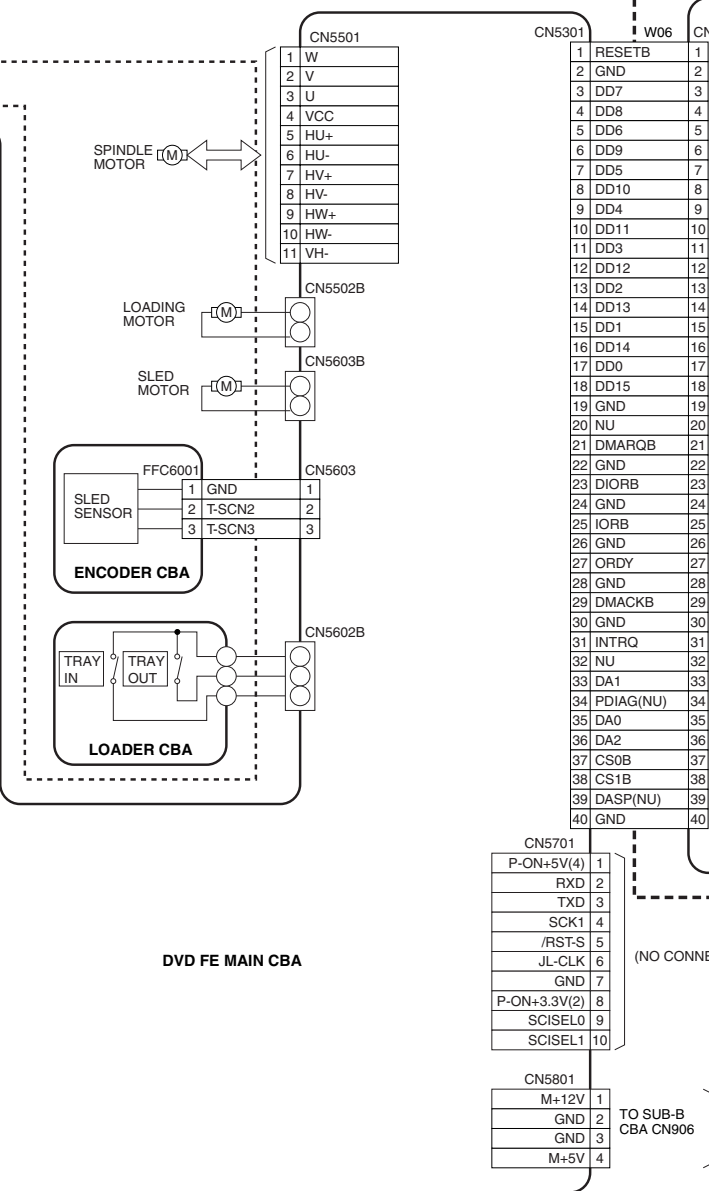
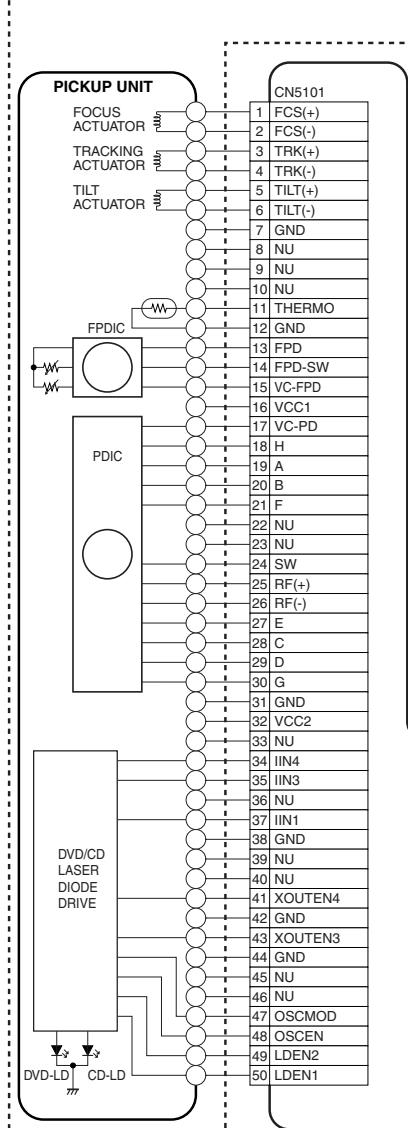


1-12-1

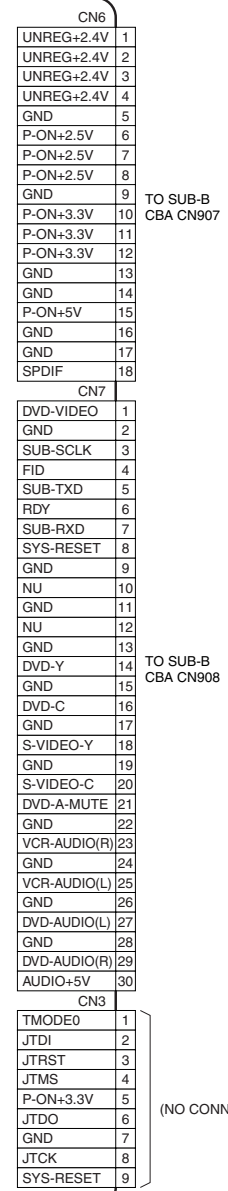
T2021W1T

DVD MECHA & FE ASSEMBLY

DVD MECHA



DVD BE MAIN CBA UNIT



TO SUB-B CBA CN907

TO WIRING DIAGRAM <TV/VCR SECTION>

TO SUB-B CBA CN908

(NO CONNECTION)

TO SUB-B CBA CN906

TO WIRING DIAGRAM <TV/VCR SECTION>

(NO CONNECTION)

WIRING DIAGRAM < DVD Section >