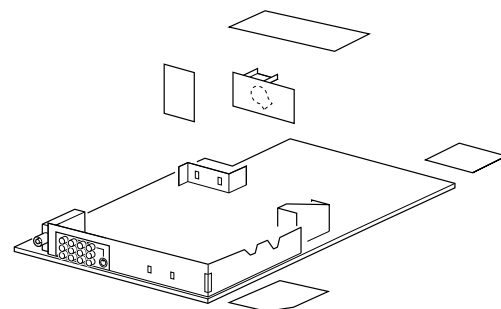


Service  
Service  
Service

## Service Manual

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PHILIPS

## 5. Service Modes, Error Codes and Fault Finding

### Index:

1. Test points.
2. Service Modes.
3. Problems and Solving Tips (related to CSM).
4. Compair
5. Error Codes.
6. The Blinking LED Procedure.
7. Protections.
8. Repair Tips.

### 5.1 Test Points

The chassis is equipped with test points printed on the circuit board assemblies. These test points refer to the functional blocks:

**Table 5-1 Test Point Overview**

TEST POINT	CIRCUIT	DIAGRAM
A1-A2-A3-..	AUDIO PROCESSING	A8, A9
C1-C2-C3-..	CONTROL	A7
F1-F2-F3-..	FRAME DRIVE & OUTPUT	A3
I1-I2-I3-..	TUNER & IF	A4
L1-L2-L3-..	LINE DRIVE & OUTPUT	A2
P1-P2-P3-..	POWER SUPPLY	A1
S1-S2-S3-..	SYNCHRONISATION	A6
V1-V2-V3-..	VIDEO PROCESSING	A5, B1

The numbering is in a logical sequence for diagnostics. Always start diagnosing within a functional block in the sequence of the relevant test points for that block.

Perform measurements under the following conditions:

- Service Default Alignment Mode.
- Video: colour bar signal.
- Audio: 3 kHz left, 1 kHz right.

### 5.2 Service Modes

Service Default Alignment Mode (SDAM) offers several features for the service technician, while the Customer Service Mode (CSM) is used for communication between dealer and customer.

There is also the option of using ComPair, a hardware interface between a computer (see requirements) and the TV chassis. It offers the ability of structured trouble shooting, error code reading and software version readout for all chassis. Requirements: To run ComPair on a computer (laptop or desktop) requires, as a minimum, a 486 processor, Windows 3.1 and a CD-ROM drive. A Pentium Processor and Windows 95/98 are also acceptable (see also paragraph 5.4).

**Table 5-2 SW Cluster**

SW Cluster	Software mane	UOC type	UOC Diversity	Special Features
L3LAN1	L01AN4x.y	TDA9582 (LS)	64K ROM Size	China
L3LAN2	L01AN5x.y	TDA9582 (LS)	64K ROM Size	India, M.E.
L3LAN3	L01AN7x.y	TDA9570 (LS)	55K ROM Size	China, AV stereo
L3LAT1	L01AT5x.y	TDA9552 (LS)	64K ROM Size	1pg TXT, AV stereo
L3LAC1	L01AC2x.y	TDA9580 (LS)	64K ROM Size	NTSC, Tai Wan, Korean

Abbreviations in Software name: A = AP, T = TXT, N = NON TXT, C = NTSC, M = MONO, D = DVD

#### 5.2.1 Service Default Alignment Mode (SDAM)

##### Purpose

- To change option settings.
- To create a predefined setting to get the same measurement results as given in this manual.
- To display / clear the error code buffer.
- To override SW protections.
- To perform alignments.
- To start the blinking LED procedure.

##### Specifications

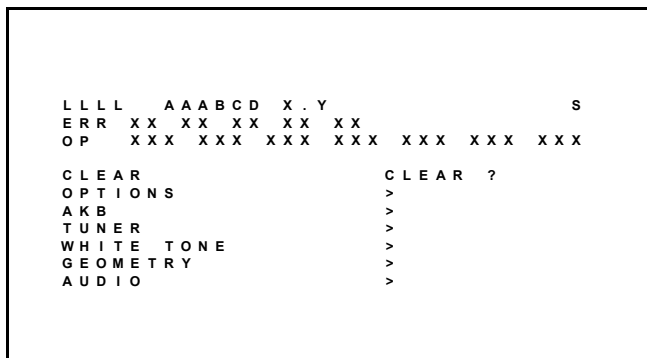
- Tuning frequency:
  - 475.25 MHz for PAL/SECAM (AP-PAL).
  - 61.25 MHz (channel 3) for NTSC-sets (AP-NTSC).
- Colour system:
  - PAL-BG for AP-PAL.
  - NTSC for AP-NTSC.
- All picture settings at 50 % (brightness, colour contrast, hue).
- Bass, treble and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled, like:
  - (sleep) timer,
  - child/parental lock,
  - blue mute,
  - hotel/hospitality mode
  - auto switch-off (when no "IDENT" video signal is received for 15 minutes),
  - skip / blank of non-favorite presets / channels,
  - auto store of personal presets,
  - auto user menu time-out.
- Operation hours counter.
- Software version.
- Option settings.
- Error buffer reading and erasing.
- Software alignments.

##### How to enter SDAM

Use one of the following methods:

- Use a standard customer RC-transmitter and key in the code 062596 directly followed by the "M" (menu) button or
- Short jumper wires 9631 and 9641 on the mono carrier (see Fig. 8-1) and apply AC power. Then press the power button (remove the short after start-up).
- Caution: Entering SDAM by shorten wires 9631 and 9641 will override the +8V-protection. Do this only for a short period. When doing this, the service-technician must know exactly what he is doing, as it could lead to damaging the set.
- Or via ComPair.

After entering SDAM, the following screen is visible, with S at the upper right side for recognition.



CL 26532046\_078.eps  
260402

Figure 5-1 SDAM menu

#### LLLL

This is the operation hours counter. It counts the normal operation hours, not the standby hours.

#### AAABCD-X.Y

This is the software identification of the main micro controller: A = the project name (L01).

B = the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.

C = the feature of software diversity: C = NTSC, D = DVD, N = no TXT, T = TXT.

D = the language cluster number:

X = the main software version number.

Y = the sub software version number.

#### S

Indication of the actual mode. S= SDAM= Service Default Alignment mode.

#### Error buffers

Five errors possible.

#### Option bytes

Seven codes possible.

#### Clear

Erase the contents of the error buffer. Select the CLEAR menu item and press the CURSOR RIGHT key. The content of the error buffer is cleared.

#### Options

To set the Option Bytes. See chapter 8.3.1 for a detailed description.

#### AKB

Disable (0) or enable (1) the "black current loop" (AKB = Auto Kine Bias).

#### Tuner

To align the Tuner. See chapter 8.3.2 for a detailed description.

#### White Tone

To align the White Tone. See chapter 8.3.3 for a detailed description.

#### Geometry

To align the set geometry. See chapter 8.3.4 for a detailed description.

#### Audio

To align the Audio. See chapter 8.3.5 for a detailed description.

#### How to navigate

- In SDAM, select menu items with the CURSOR UP/DOWN key on the remote control transmitter. The selected item will be highlighted. When not all menu items fit on the screen, move the CURSOR UP/DOWN key to display the next / previous menu items.
- With the CURSOR LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.

- When you press the MENU button twice, the set will switch to the normal user menus (with the SDAM mode still active in the background). To return to the SDAM menu press the OSD / STATUS button.
- When you press the MENU key in a submenu, you will return to the previous menu.

#### How to store settings

To store settings leave the SDAM (at top level SDAM main menu) with the Standby button on the remote.

#### How to exit

Switch the set to STANDBY by pressing the power button on the remote control (if you switch the set 'off' by removing the AC power, the set will return in SDAM when AC power is re-applied). The error buffer is not cleared.

### 5.2.2 Customer Service Mode (CSM)

#### Purpose

When a customer is having problems with his TV-set, he can call his dealer. The service technician can then ask the customer to activate the CSM, in order to identify the status of the set. Now, the service technician can judge the severness of the complaint. In many cases, he can advise the customer how to solve the problem, or he can decide if it is necessary to visit the customer.

The CSM is a read only mode; therefore, modifications in this mode are not possible.

#### How to enter

To enter the CSM by pressing user remote control and key in the code 123654.

After switching ON the Customer Service Mode, the following screen will appear:



CL 26532046\_002  
040402

Figure 5-2 CSM menu

- Indication of the actual mode CSM = Customer Service Mode
- Reserved.
- Software identification of the main micro controller (see paragraph 5.2.1 for the explanation)
- Reserved item.
- Indicates TV system and or not receiving an "IDENT" signal on the selected source. It will display "NOT TUNED"
- Error code buffer (see paragraph 5.4 for more details). Displays the last five errors of the error code buffer.

#### How to exit

Use one of the following methods:

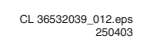
- Press one of the buttons "Menu", "OSD" or "Standby" of the remote control keys.
- Switch-off the TV set with the AC power switch.

### 5.3 Problems and Solving Tips (Related to CSM)

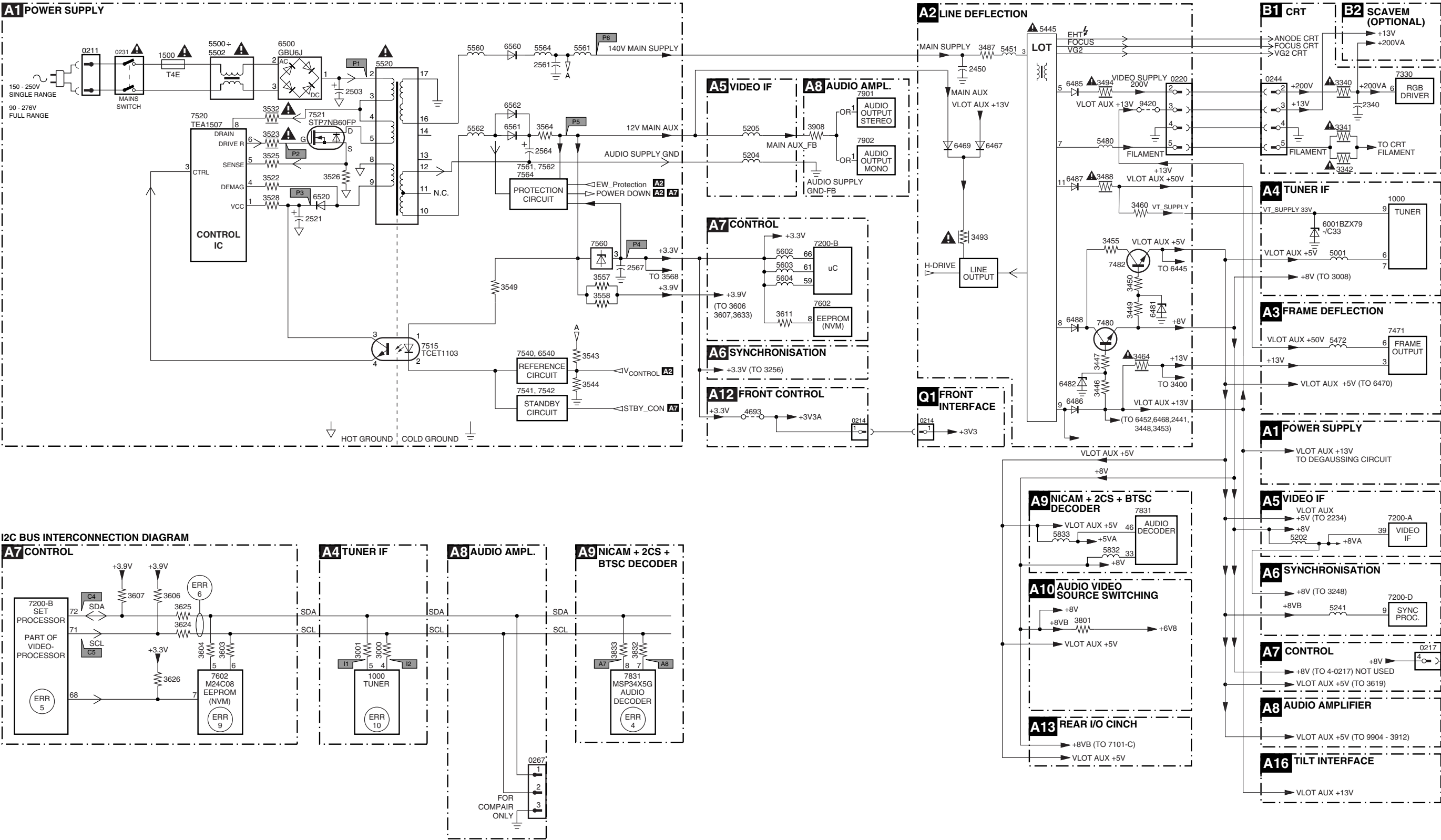
#### 5.3.1 Picture Problems

**Note:** Below described problems are all related to the TV settings. The procedures to change the value (or status) of the different settings are described.

### Block Diagram



I<sup>2</sup>C and Supply Voltage Overview

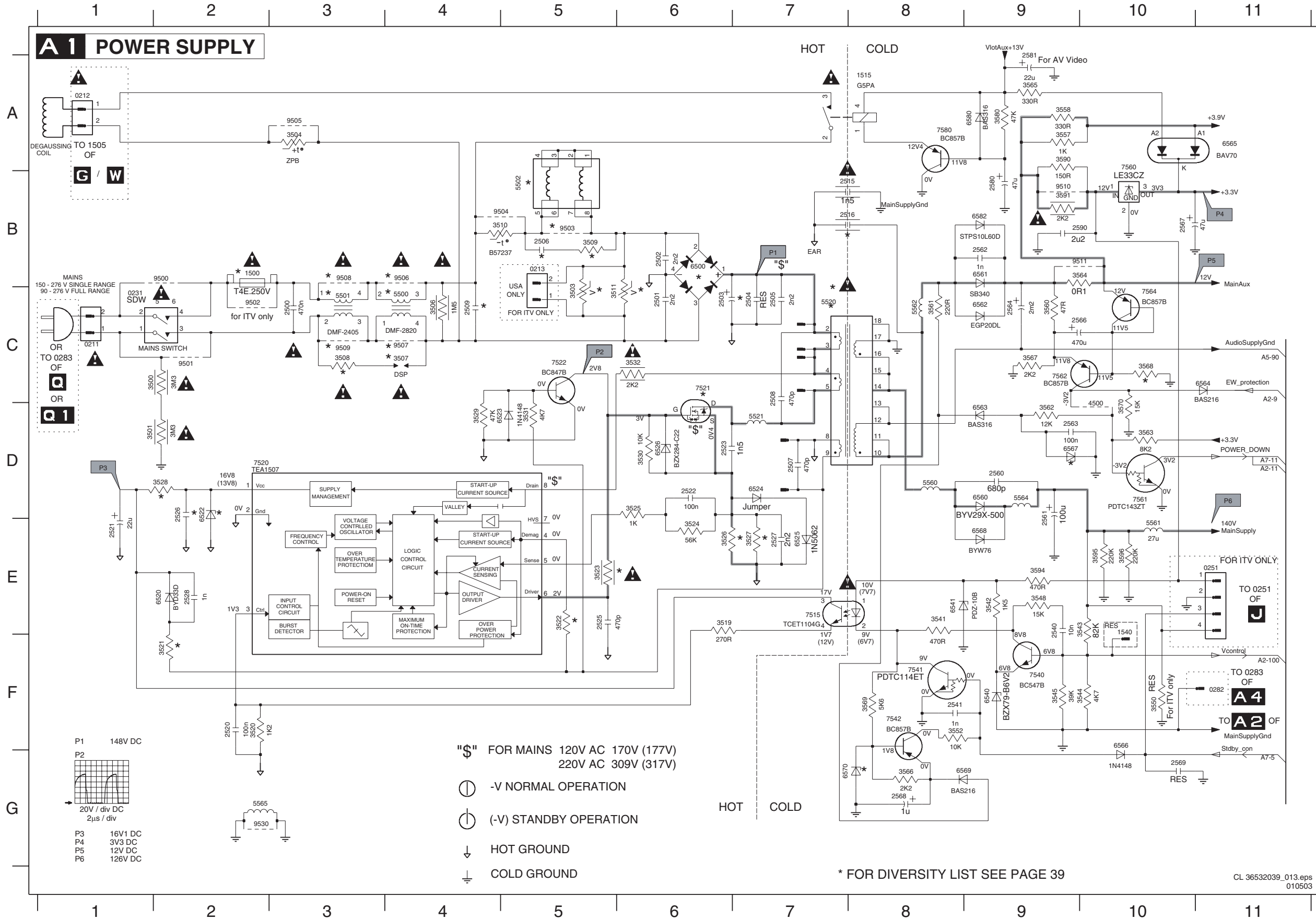


Error	Description
0	No error
1	X-Ray / over voltage protection
2	High beam (BCI) protection
3	Vertical guard protection
4	I2C error while communicating with the sound processor
5	Power ON reset (POR bit) 3.3V protection / +8V protection
6	General I2C error
7	Power down (over current) protection
8	EW protection (Large Screen only)
9	I2C error EEPROM error
10	I2C error PLL tuner
11	Black current loop instability protection



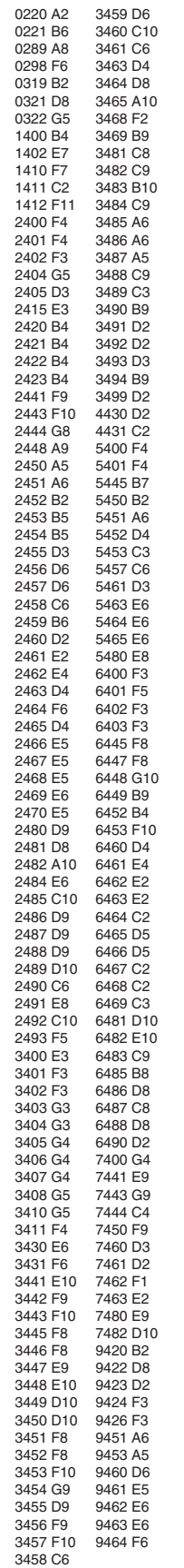
7. Circuit Diagrams and PWB Layouts

Mono Carrier: Power Supply



0211 C1	3591 B9
0212 A1	3594 E9
0213 B5	3595 E10
0231 C1	3596 E10
0251 E11	4500 D10
0282 F11	5500 C4
1500 B2	5501 C3
1515 A8	5502 B5
1540 F10	5520 C7
2500 C3	5521 D7
2501 C6	5560 D8
2502 B6	5561 E10
2503 C6	5562 C8
2504 C7	5564 D9
2505 C7	5565 G2
2506 B5	6500 B6
2507 D7	6520 E2
2508 C7	6522 D2
2509 C4	6523 D5
2515 B7	6524 D7
2516 B7	6525 E7
2520 F2	6526 D6
2521 E1	6540 F9
2522 D6	6541 E8
2523 D6	6560 D9
2525 E5	6561 B9
2526 D2	6562 C9
2527 E7	6563 D9
2528 E2	6564 C11
2540 E9	6565 A11
2541 F8	6566 F10
2560 D9	6567 D9
2561 D9	6568 E9
2562 B9	6569 G9
2563 D9	6570 G7
2564 C9	6580 A9
2566 C9	6582 B9
2567 B10	7515 E7
2568 G8	7520 D2
2569 G10	7521 C6
2580 B9	7522 C5
2581 A9	7540 F9
2590 B10	7541 F8
3500 C1	7542 F8
3501 D1	7560 A10
3503 C5	7561 D10
3504 A3	7562 C9
3506 C4	7564 C10
3507 C4	7580 A8
3508 C3	9500 B2
3509 B5	9501 C2
3510 B4	9502 C2
3511 C5	9503 B5
3519 E6	9504 B5
3520 F2	9505 A3
3521 F2	9506 B4
3522 E5	9507 C4
3523 E5	9508 B3
3524 E6	9509 C3
3525 D6	9510 B9
3526 E6	9511 B10
3527 E7	9530 G2
3528 D2	
3529 D4	
3530 D6	
3531 D5	
3532 C6	
3541 E8	
3542 E9	
3543 E10	
3544 F10	
3545 F9	
3548 E9	
3550 F10	
3552 F8	
3557 A9	
3558 A9	
3560 C9	
3561 C8	
3562 D9	
3563 D10	
3564 B10	
3565 A9	
3566 G8	
3567 C9	
3568 C10	
3569 F8	
3570 D10	
3580 A9	
3590 A9	

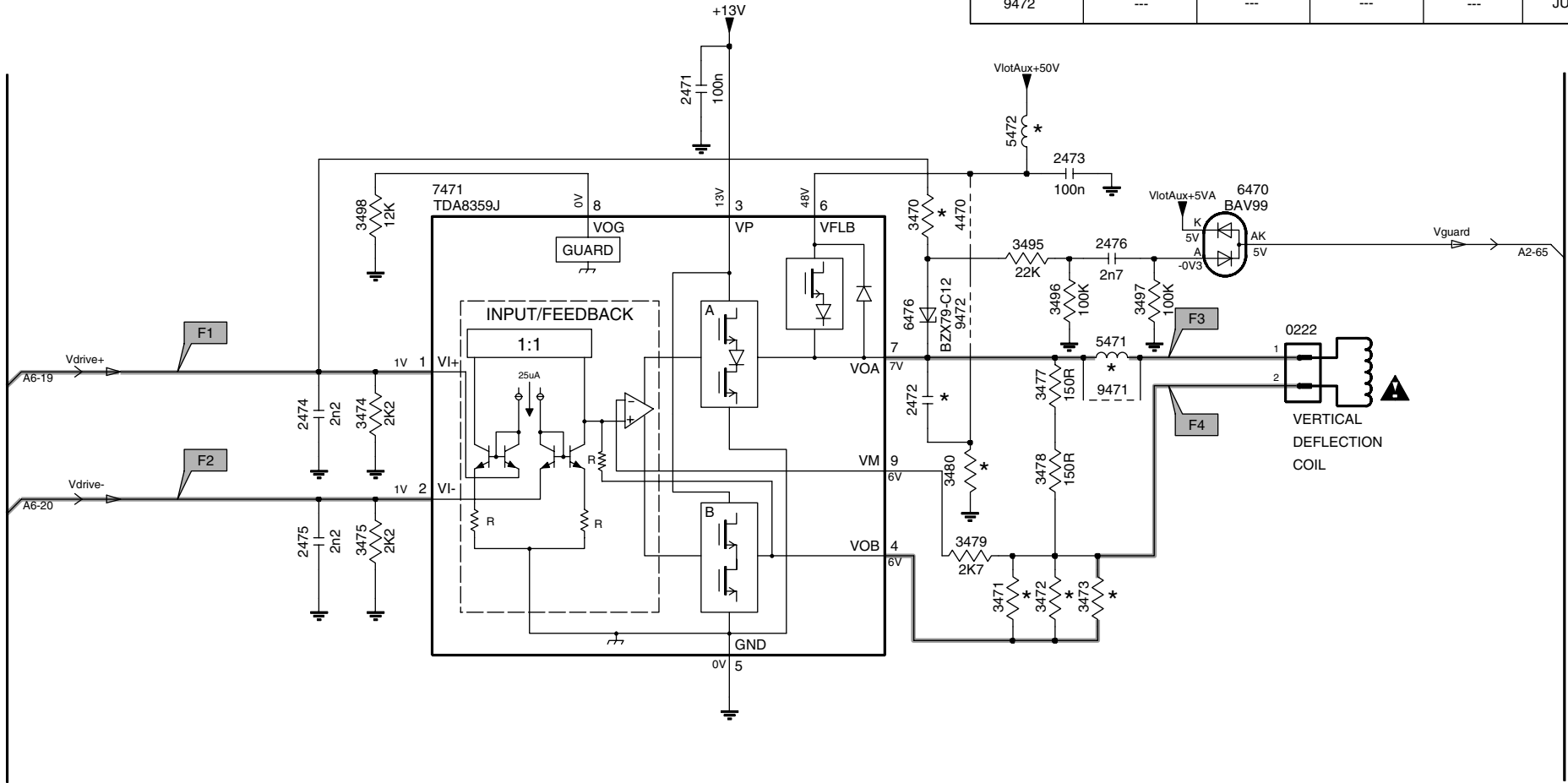
## A2 LINE DEFLECTION



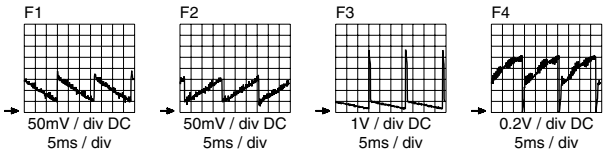
Mono Carrier: Frame Deflection

A3 FRAME DEFLECTION

MODEL	L2K3						
REGION	EU				AP	GL	CH/IN
TUBE	PHCO		LG.PH		LG.PH	SMGK(SF)	LG.PH
SET	28WR	32WR	29RF	24WR	21RF	21RF	29RF
2472	63V 150N	63V 150N	63V 150N	63V 150N	100V 10N	100V 10N	63V 150N
3470	470K	270K	330K	470K	270K	470K	470K
3471	2R2	3R9	3R3	2R2	3R9	3R9	3R9
3472	3R3	3R3	3R3	3R3	4R7	3R9	3R9
3473	3R9	3R9	3R3	3R9	6R8	---	---
3480	1R5	1R5	1R5	1R5	---	---	1R5
4470	---	---	---	---	SMD_JUMPER	SMD_JUMPER	---
5471	6U8	6U8	3U3	3U3	6U8	6U8	3U3
5472	3MUH3	3MUH3	6MUH8	3MUH3	3MUH3	6MUH8	3MUH3
9472	---	---	---	---	JUMPER	JUMPER	---



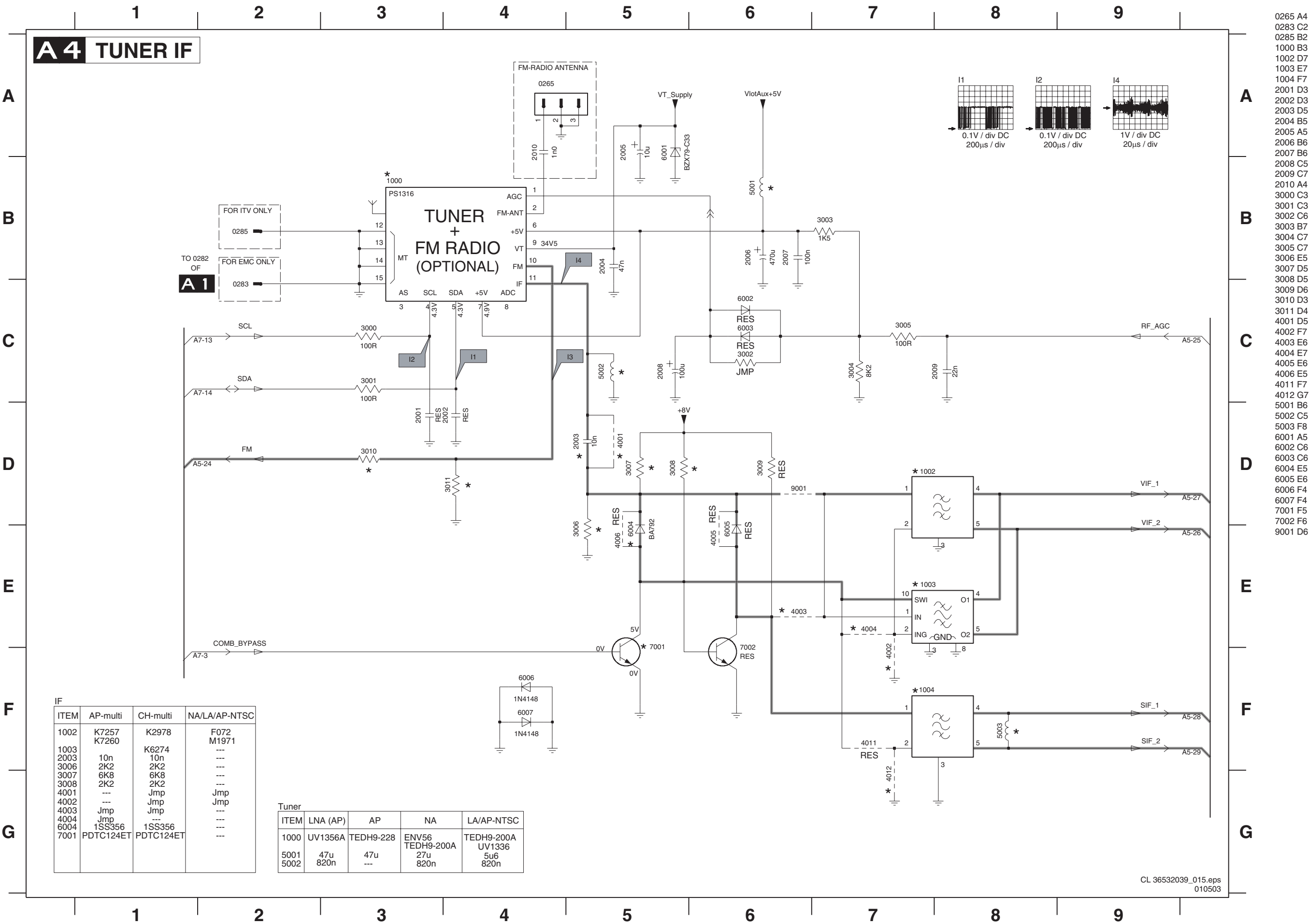
REGION	NAFTA		LATAM			AP						
TUBE	SMGK	TOS	LG.PH	LG.PH	LG.PH	SMGK	LG.PH	LG.PH	ORION	LG.PH	LG.PH	MMEC
ITEM	21RF	34RF	32V	32WSRF	28WSRF	34RF	34RF	29RF	29RF	25RF	21RF	21RF
2472	63V 150N	63V 150N	63V 150N	63V 150N	63V 150N	100V 150N	63V 150N	63V 150N	63V 150N	63V 150N	100V 10N	100V 10N
3470	SM0805 390K	SM0805 470K	SM0805 390K	SM0805 270K	SM0805 470K	SM0805 220K	SM0805 220K	SM0805 470K	SM0805 470K	SM0805 470K	270K	270K
3471	4R7	3R3	4R7	3R9	3R3	3R9	3R9	3R9	3R9	3R9	5R6	5R6
3472	2R2	2R2	2R2	3R3	3R3	3R9	3R9	3R9	3R9	3R9	3R3	3R3
3473	3R3	2R2	3R3	3R9	3R9	2R2	2R2	2R2	2R2	2R2	6R8	6R8
3480	1R5	1R5	1R5	1R5	1R5	---	1R5	1R5	1R5	1R5	---	---
4470	---	---	---	---	---	---	---	---	---	---	---	---
5471	3U3	6U8	3U3	6U8	6U8	6U8	3U3	6U8	6U8	6U8	6U8	6U8
9472	---	---	---	---	---	---	---	---	---	---	---	---



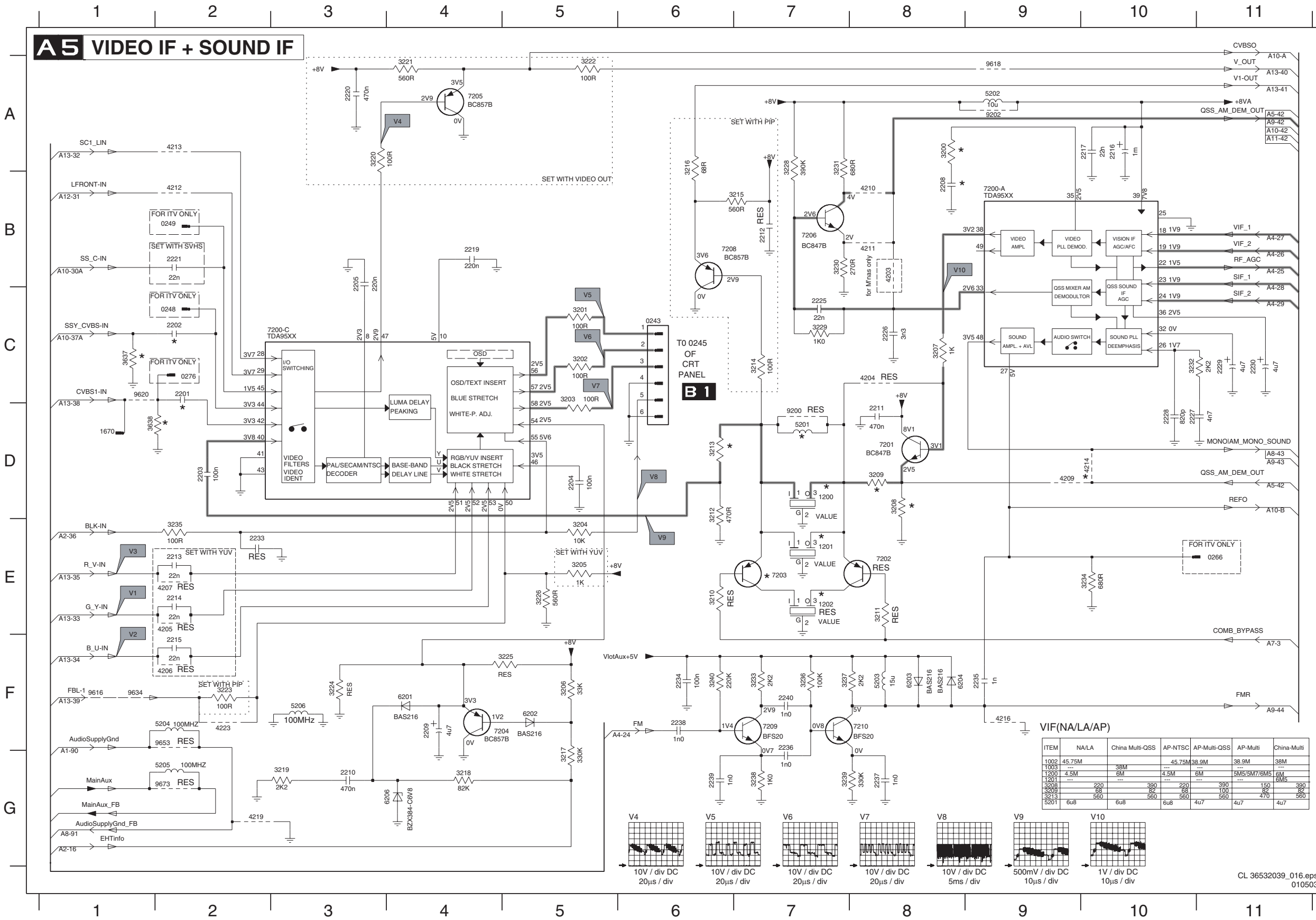
0222 C8  
2471 B5  
2472 C6  
2473 B7  
2474 D3  
2475 D3  
2476 C7  
3470 C6  
3471 D7  
3472 D7  
3473 D7  
3474 D3  
3475 D3  
3477 C7  
3478 D7  
3479 D7  
3480 D6  
3495 C7  
3496 C7  
3497 C7  
3498 C3  
4470 C6  
5471 C7  
5472 B7  
6470 B8  
6476 C6  
7471 B4  
9471 C7  
9472 C6



Mono Carrier: Tuner IF

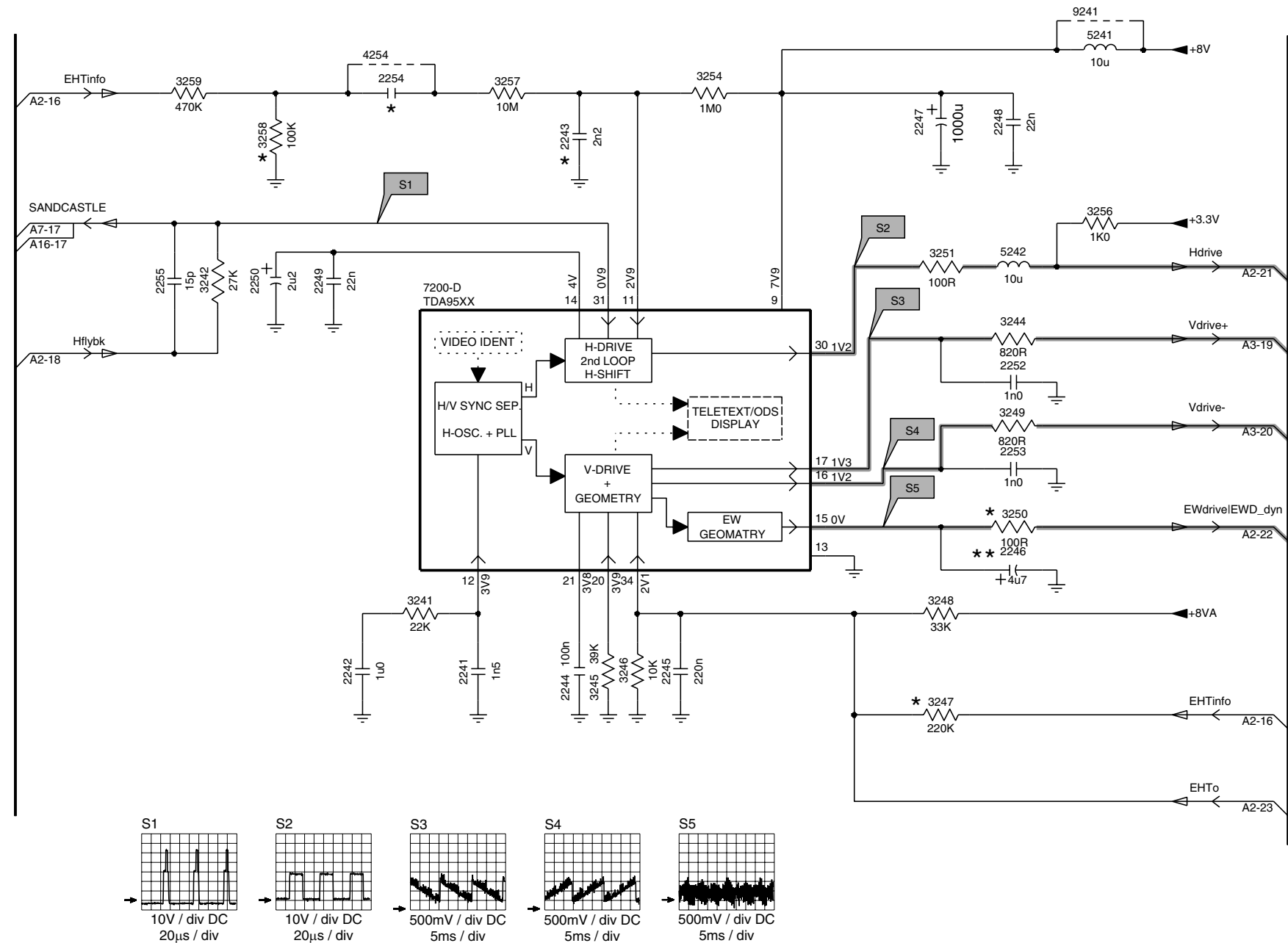


Mono Carrier: Video IF + Sound IF



- 0243 C6
- 0248 C2
- 0249 B2
- 0266 E11
- 0276 C2
- 1200 D7
- 1201 E7
- 1202 E7
- 1670 D1
- 2201 C2
- 2202 C2
- 2203 D2
- 2204 D5
- 2205 B3
- 2208 B8
- 2209 F4
- 2210 G3
- 2211 D8
- 2212 B7
- 2213 E2
- 2214 E2
- 2215 F2
- 2216 A10
- 2217 A10
- 2219 B4
- 2220 A3
- 2221 B2
- 2225 C7
- 2226 C8
- 2227 D10
- 2228 D10
- 2229 C11
- 2230 C11
- 2233 E2
- 2234 F6
- 2235 F9
- 2236 F7
- 2237 G8
- 2238 F6
- 2239 G6
- 2240 F7
- 3200 A8
- 3201 C5
- 3202 C5
- 3203 C5
- 3204 E5
- 3205 E5
- 3206 F5
- 3207 C8
- 3208 D8
- 3209 D8
- 3210 E6
- 3211 E8
- 3212 D6
- 3213 D6
- 3214 C7
- 3215 B7
- 3216 A6
- 3217 G5
- 3218 G4
- 3219 G3
- 3220 A3
- 3221 A4
- 3222 A5
- 3223 F2
- 3224 F3
- 3225 F5
- 3226 E5
- 3228 A7
- 3229 C7
- 3230 B7
- 3231 A7
- 3232 C10
- 3233 F7
- 3234 E10
- 3235 E2
- 3236 F7
- 3237 F7
- 3238 G7
- 3239 G7
- 3240 F6
- 3637 C1
- 3638 D1
- 4203 B8
- 4204 C8
- 4205 E2
- 4206 F2
- 4207 E2
- 4209 D9
- 4210 B8
- 4211 B8
- 4212 B2
- 4213 A2
- 4214 D10
- 4216 F9
- 4219 G2
- 4223 F2
- 5201 D7
- 5202 A9
- 5203 F8
- 5204 F2
- 5205 G2
- 5206 F3
- 6201 F4
- 6202 F5
- 6203 F8
- 6204 F8
- 6206 G4
- 7200-A B9
- 7200-C C3
- 7201 D8
- 7202 E8
- 7203 E7
- 7204 F5
- 7205 A4
- 7206 B7
- 7208 B7
- 7209 F7
- 7210 F8
- 9200 D7
- 9202 A9
- 9618 A9
- 9653 F2
- 9673 G2

## A6 SYNCHRONISATION

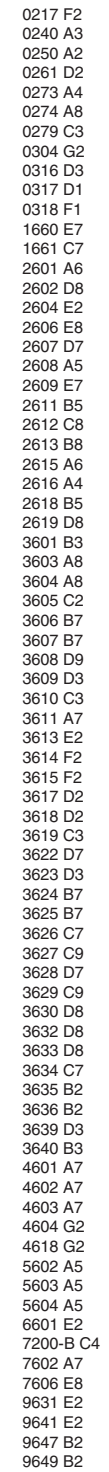


REGION	NAFTA			LATAM		AP						
TUBE	SMGK	TOS	LG.PH	LG.PH	LG.PH	SMGK	LG.PH	LG.PH	ORION	LG.PH	LG.PH	MMEC
ITEM	29RF	34RF	32V	32WSRF	28WSRF	34RF	34RF	29RF	29RF	25RF	21RF	21RF
2243	50V 2N2	50V 2N2	50V 2N2	50V 10N	50V 10N	50V 2N2	50V 2N2	50V 2N2	50V 2N2	50V 2N2	50V 2N2	50V 6N8
3247	680K (SMD)	680K (SMD)	680K (SMD)	470K (SMD)	470K (SMD)	SM0603 470K	SM0603 470K	SM0603 680K	SM0603 680K	SM0603 680K	SM0603 270K	SM0603 270K
3250	8K2	8K2	8K2	1K	1K	33R	4K7	8K2	4K7	4K7	---	---
3258	100K (SMD)	100K (SMD)	100K (SMD)	100K (SMD)	100K (SMD)	180K	180K	SM0603 100K	SM0603 220K	SM0603 100K	SM0603 100K	SM0603 100K

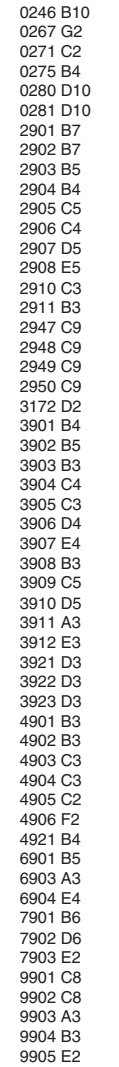
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010503

2241 D5  
2242 D4  
2243 B5  
2244 D5  
2245 D6  
2246 D7  
2247 B7  
2248 B7  
2249 B4  
2250 B4  
2252 C7  
2253 C7  
2254 A4  
2255 B3  
3241 D5  
3242 B3  
3244 B7  
3245 D5  
3246 D6  
3247 D7  
3248 D7  
3249 C7  
3250 C7  
3251 B7  
3254 A6  
3256 B8  
3257 A5  
3258 B4  
3259 A3  
4254 A4  
5241 A8  
5242 B7  
7200-D B5  
9241 A8

## A 7 CONTROL



## A 8 AUDIO\_AMPLIFIER



\* FOR DIVERSITY LIST SEE PAGE 39

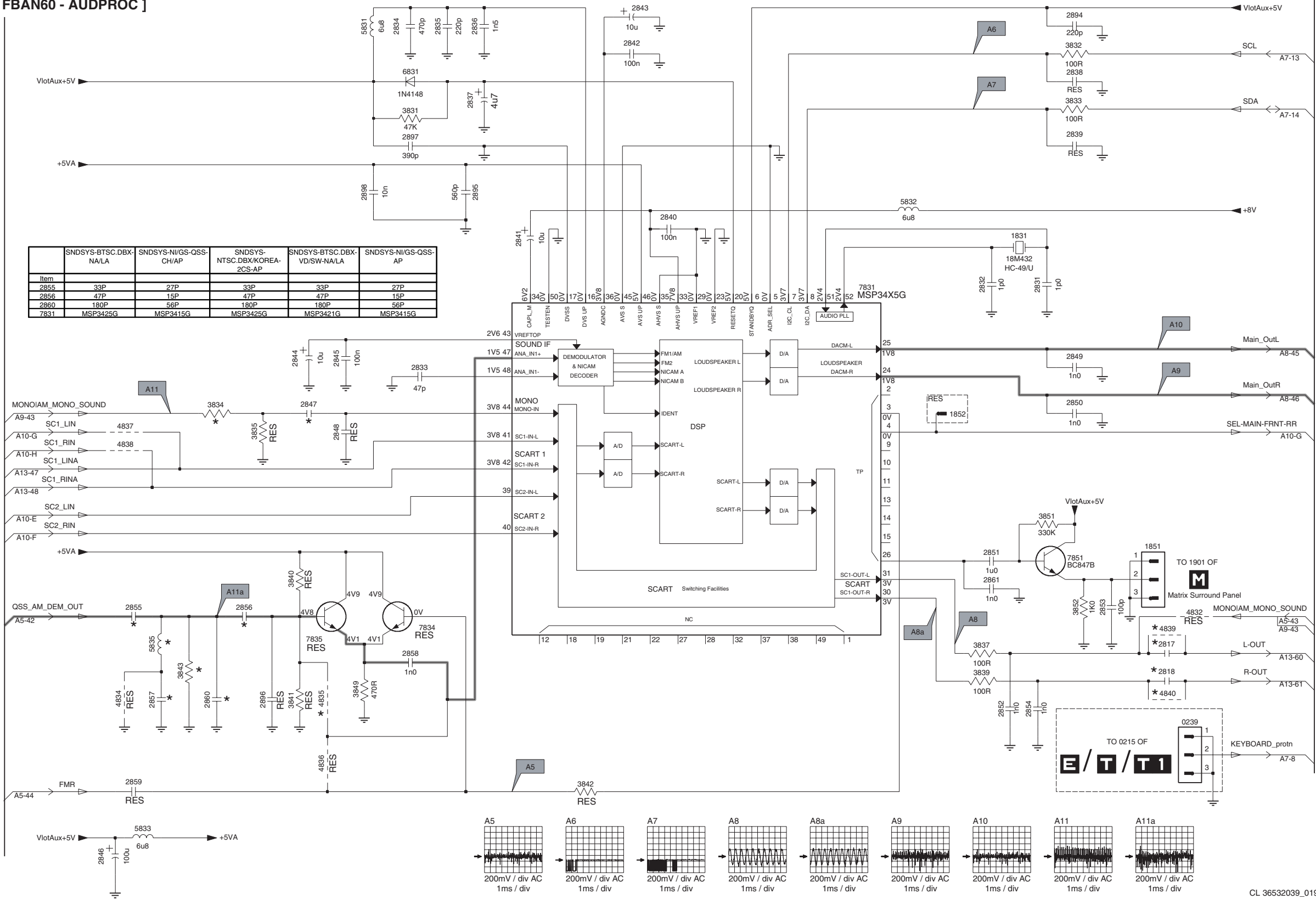


Mono Carrier: NICAM + 2CS + BTSC (Stereo/SAP) Decoder

**A9 NICAM + 2CS + BTSC (STEREO/SAP) DECODER**

[ FBAN60 - AUDPROC ]

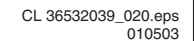
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2855	33P	27P	33P	33P	27P
2856	47P	15P	47P	47P	15P
2860	180P	56P	180P	180P	56P
7831	MSP3425G	MSP3415G	MSP3425G	MSP3421G	MSP3415G



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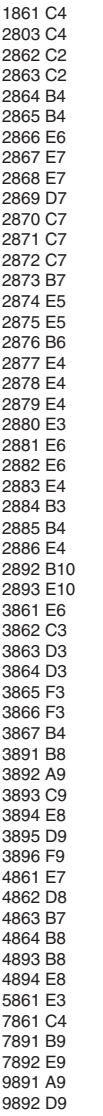
0239 F10  
1831 B8  
1851 E9  
1852 D8  
2817 F10  
2818 F10  
2831 C9  
2832 C8  
2833 D4  
2834 A4  
2835 A4  
2836 A4  
2837 A4  
2838 A9  
2839 B9  
2840 B6  
2841 B5  
2842 A5  
2843 A5  
2844 C3  
2845 C3  
2846 G1  
2847 D3  
2848 D3  
2849 C9  
2850 D9  
2851 E8  
2852 F8  
2853 E9  
2854 F9  
2855 E2  
2856 E2  
2857 F2  
2858 F2  
2859 G2  
2860 F2  
2861 E8  
2864 A9  
2895 B4  
2896 F3  
2897 B4  
2898 B3  
3831 B4  
3832 A9  
3833 A9  
3834 D2  
3835 D3  
3837 F8  
3839 F8  
3840 E3  
3841 F3  
3842 G5  
3843 F2  
3849 F3  
3851 E9  
3852 E9  
4832 E10  
4834 F1  
4835 F3  
4836 G3  
4837 D2  
4838 D2  
4839 F10  
4840 F10  
5831 A3  
5832 B8  
5833 G2  
5835 F2  
6831 A4  
7831 C7  
7834 F4  
7835 F3  
7851 E9

## A 1 AUDIO/VIDEO SOURCE SWITCHING



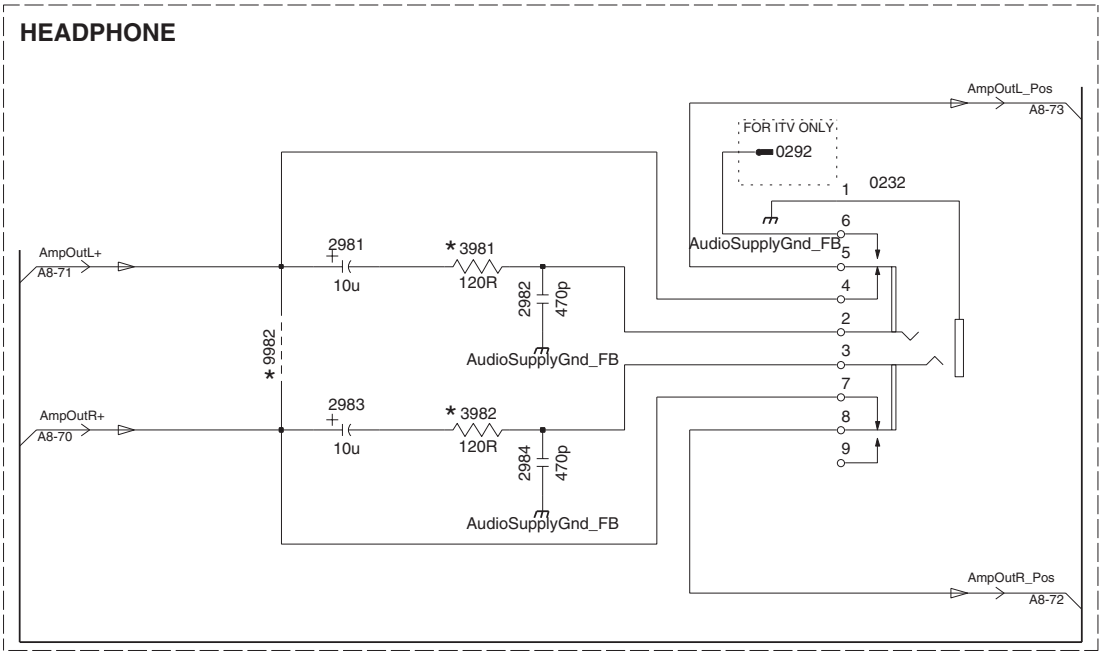
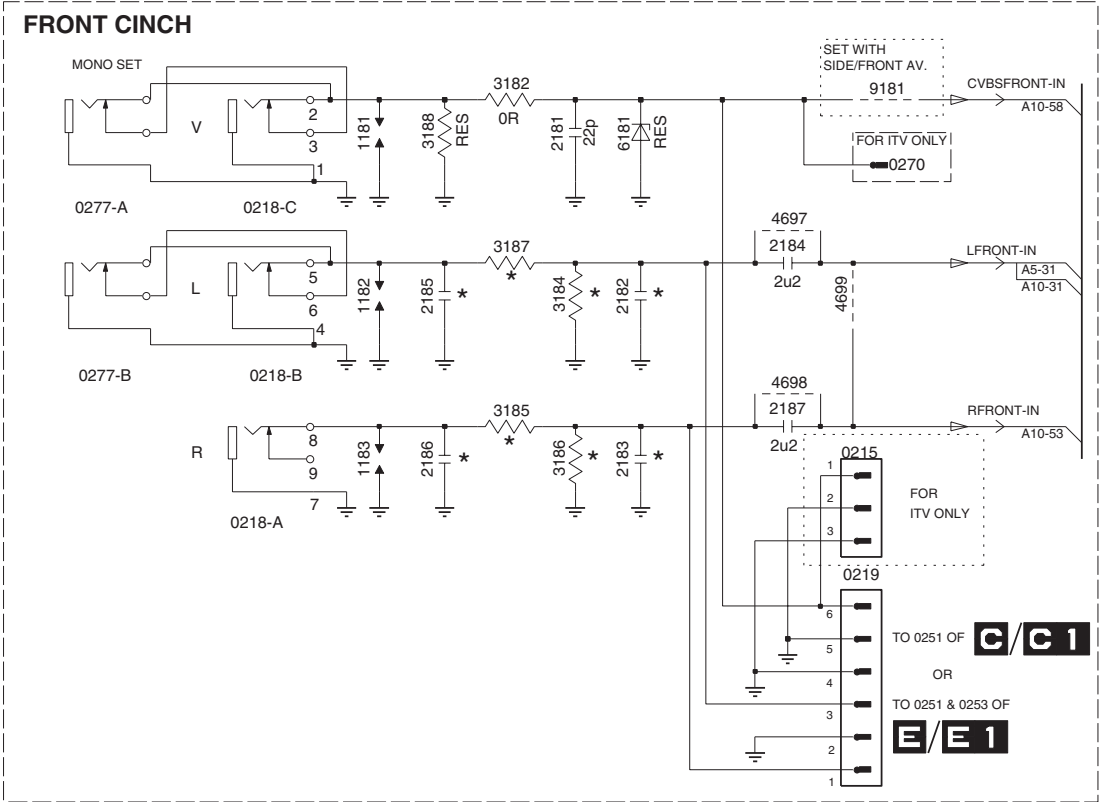
1810A E2  
1810B C3  
1811 F4  
2802 B9  
2807 B5  
2810 C9  
2813 D9  
2814 E7  
2815 E7  
2816 B3  
3801 B2  
3802 B2  
3809 F7  
3810 F7  
3811 C2  
3812 C2  
3813 C3  
3814 B7  
3815 C7  
3816 B7  
3817 C7  
3818 D7  
3819 E7  
3820 C7  
3821 E7  
3822 F7  
4807 F7  
4808 F8  
4812 D3  
4814 E3  
4816 C8  
4817 C8  
4818 E7  
4819 E8  
4820 E10  
4821 D2  
4823 D2  
4824 E2  
4825 C10  
4826 C10  
4827 C10  
4829 D7  
4830 E7  
4831 F7  
4841 C7  
4886 E5  
4892 D5  
5810 D3  
7802-A C8  
7802-B E8  
7802-C D8  
7803-A C4  
7803-B D4  
7803-C E4  
7804 C3  
9810 C7

## A 1 1 BTSC - NDBX STEREO DECODER



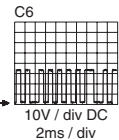
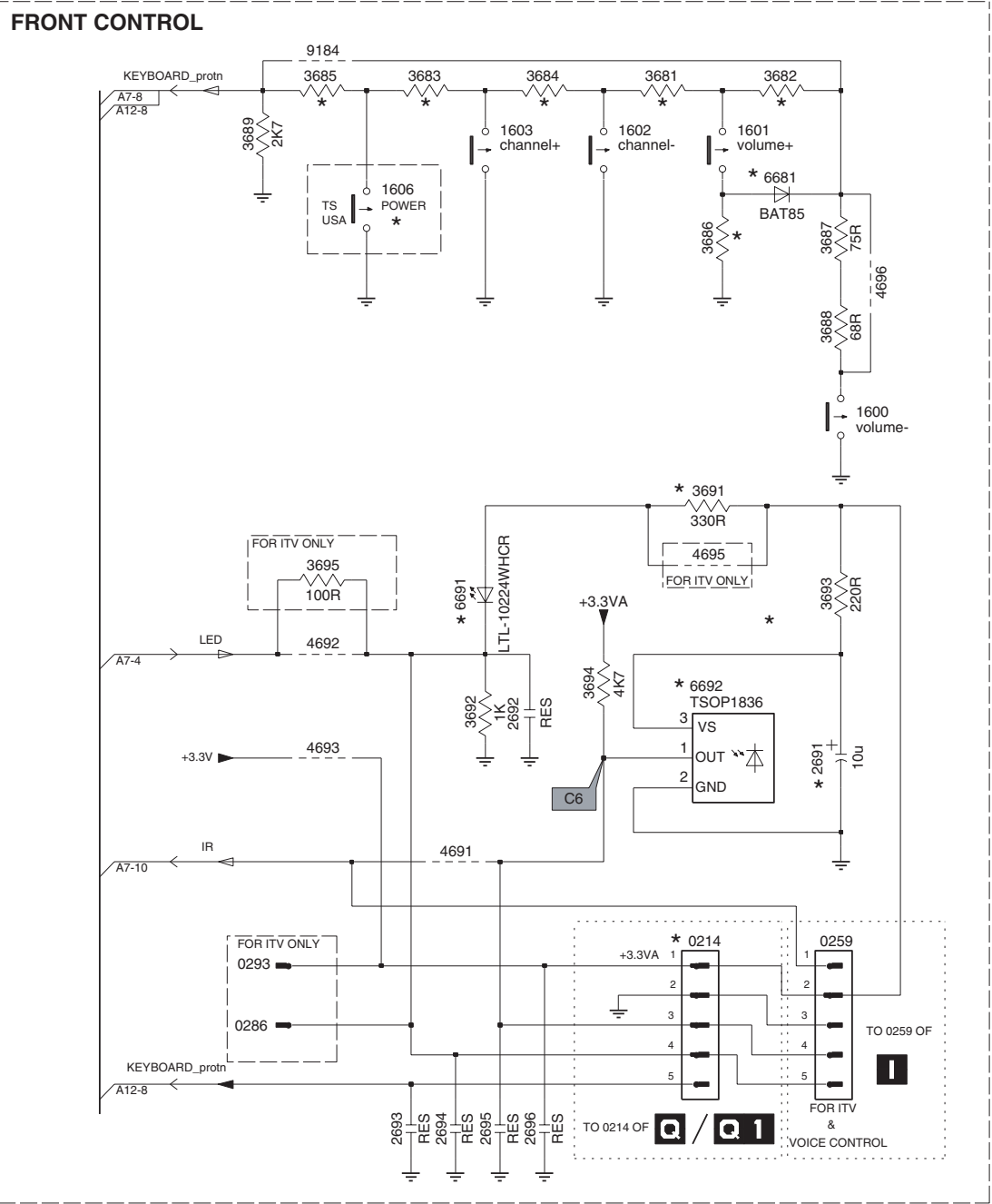
Mono Carrier: Front I/O + Front Control + Headphone

A 1 2 FRONT IO + FRONT CONTROL + HEADPHONE



For Engg Purpose Only

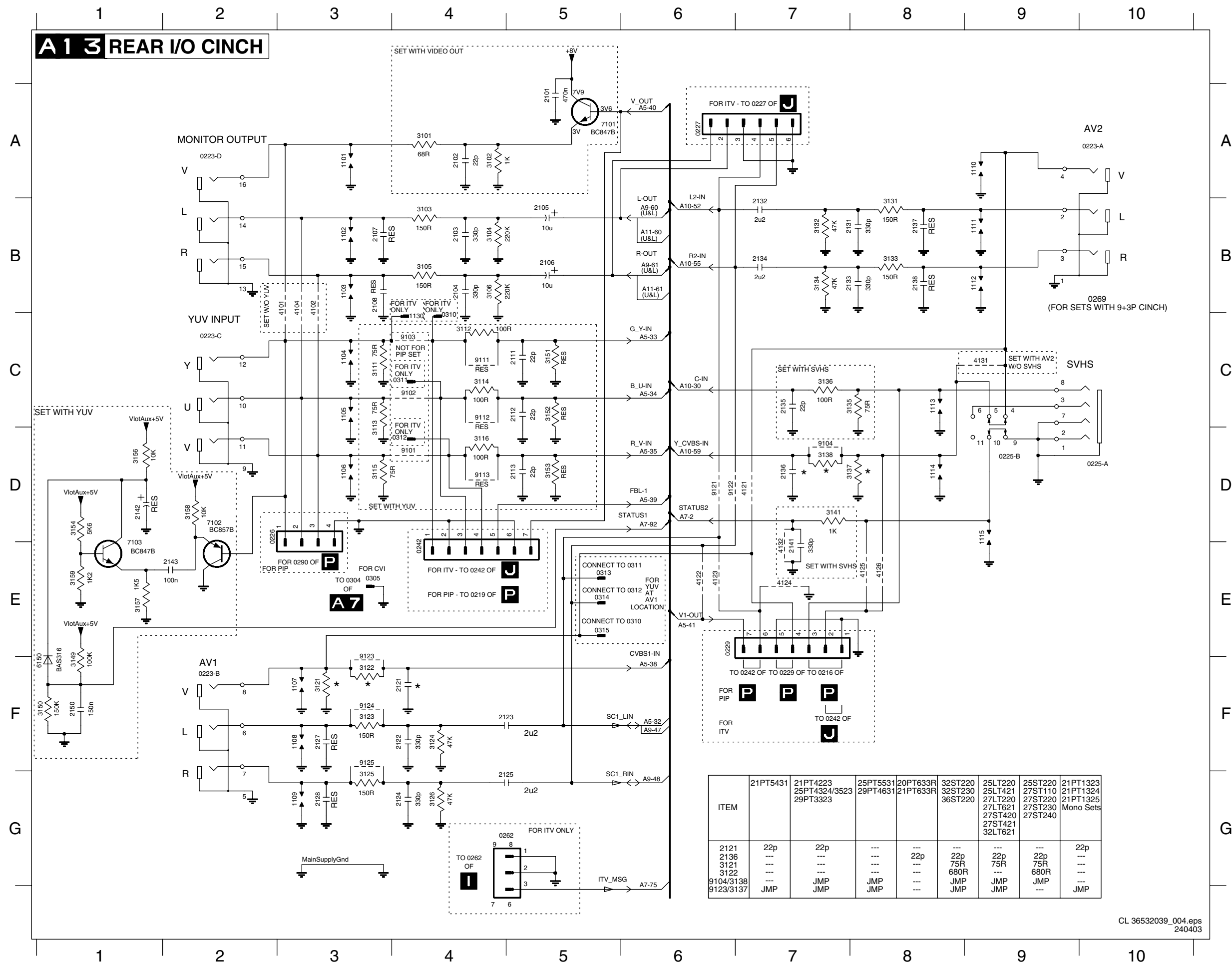
4694



\* FOR DIVERSITY LIST SEE PAGE 39

- 0214 E9
- 0215 C4
- 0218-A C2
- 0218-B B2
- 0218-C B2
- 0219 C4
- 0232 E5
- 0259 E10
- 0270 A5
- 0277-A B1
- 0277-B B1
- 0286 F7
- 0292 E4
- 0293 E7
- 1181 A2
- 1182 B2
- 1183 C2
- 1600 C10
- 1601 A9
- 1602 A9
- 1603 A8
- 1606 B8
- 2181 A3
- 2182 B3
- 2183 C3
- 2184 B4
- 2185 B3
- 2186 C3
- 2187 B4
- 2691 D10
- 2692 D8
- 2693 F8
- 2694 F8
- 2695 F8
- 2696 F8
- 2981 E2
- 2982 F3
- 2983 F2
- 2984 F3
- 3182 A3
- 3184 B3
- 3185 B3
- 3186 C3
- 3187 B3
- 3188 A3
- 3681 A9
- 3682 A10
- 3683 A8
- 3684 A8
- 3685 A7
- 3686 B9
- 3687 B10
- 3688 B10
- 3689 A7
- 3691 C9
- 3692 D8
- 3693 D10
- 3694 D9
- 3695 C7
- 3981 E3
- 3982 F3
- 4691 E8
- 4692 D7
- 4693 D7
- 4694 G5
- 4695 C9
- 4696 B10
- 4697 B4
- 4698 B4
- 4699 B4
- 6181 A3
- 6681 B10
- 6691 D8
- 6692 D9
- 9181 A5
- 9184 A7
- 9982 F2

**A 1 3 REAR I/O CINCH**



ITEM	21PT5431	21PT4223 25PT4324/3523 29PT3323	25PT5531 29PT4631	20PT633R 21PT663R	32ST220 32ST230 36ST220	25LT220 25LT421 27LT220 27LT621 27ST420 27ST421 32LT621	25ST220 27ST110 27ST220 27ST230 27ST240	21PT132 21PT132 21PT132 Mono Se
2121	22p	22p	---	---	---	---	---	22p
2136	---	---	---	22p	22p	22p	22p	---
3121	---	---	---	---	75R	75R	75R	---
3122	---	---	---	---	680R	---	680R	---
9104/3138	---	---	---	---	JMP	JMP	JMP	---
9123/3137	JMP	JMP	JMP	---	JMP	JMP	---	JMP

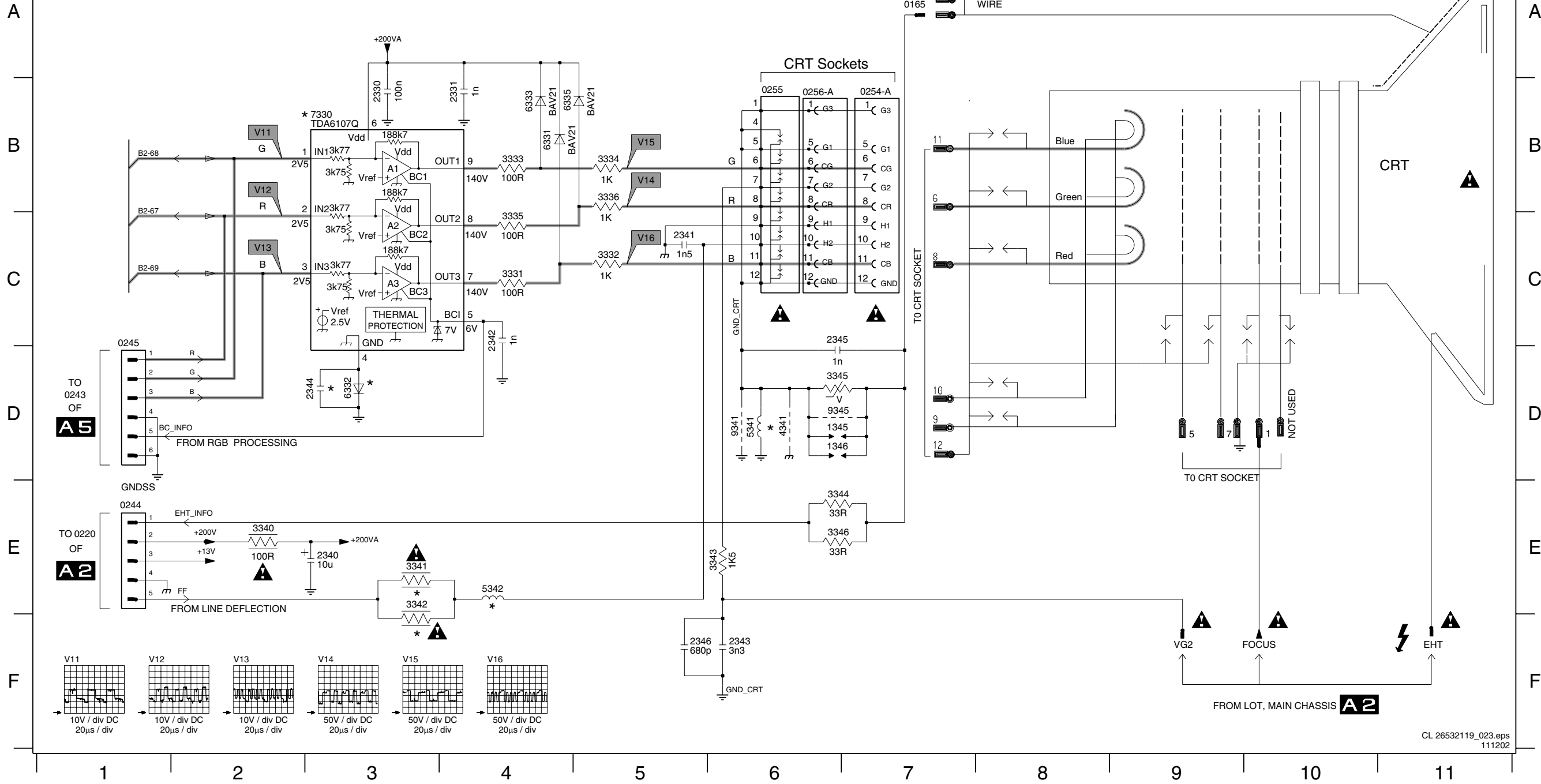
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0223-A A10	3153 D5
0223-B F2	3154 D1
0223-C C2	3156 D1
0223-D A2	3157 E1
0225-A D10	3158 D2
0225-B D9	3159 E1
0226 D2	4101 B3
0227 A6	4102 B3
0229 E6	4104 B3
0242 D4	4121 D7
0262 G5	4122 E6
0305 E3	4123 E6
0310 B4	4124 E7
0311 C4	4125 E8
0312 D4	4126 E8
0313 E5	4131 C9
0314 E5	4132 E7
0315 E5	6150 F1
1101 A3	7101 A5
1102 B3	7102 D2
1103 B3	7103 E1
1104 C3	9101 D4
1105 C3	9102 C4
1106 D3	9103 C4
1107 F3	9104 D7
1108 F3	9111 C4
1109 G3	9112 C4
1110 A9	9113 D4
1111 B9	9121 D6
1112 B9	9122 D6
1113 C8	9123 F3
1114 D8	9124 F3
1115 D9	9125 F3
1130 C4	
2101 A5	
2102 A4	
2103 B4	
2104 B4	
2105 B5	
2106 B5	
2107 B3	
2108 B3	
2111 C5	
2112 C5	
2113 D5	
2121 F4	
2122 F4	
2123 F4	
2124 G4	
2125 G4	
2127 F3	
2128 G3	
2131 B8	
2132 B7	
2133 B8	
2134 B7	
2135 C7	
2136 D7	
2137 B8	
2138 B8	
2141 E7	
2142 D1	
2143 E2	
2150 F1	
3101 A4	
3102 A4	
3103 B4	
3104 B4	
3105 B4	
3106 B4	
3111 C3	
3112 C4	
3113 D3	
3114 C4	
3115 D3	
3116 D4	
3121 F3	
3122 F3	
3123 F3	
3124 F3	
3125 G3	
3126 G4	
3131 B8	
3132 B7	
3133 B8	
3134 B7	
3135 C8	
3136 C7	
3137 D8	
3138 D7	
3141 D7	
3149 F1	
3150 F1	
3151 C5	
3152 C5	



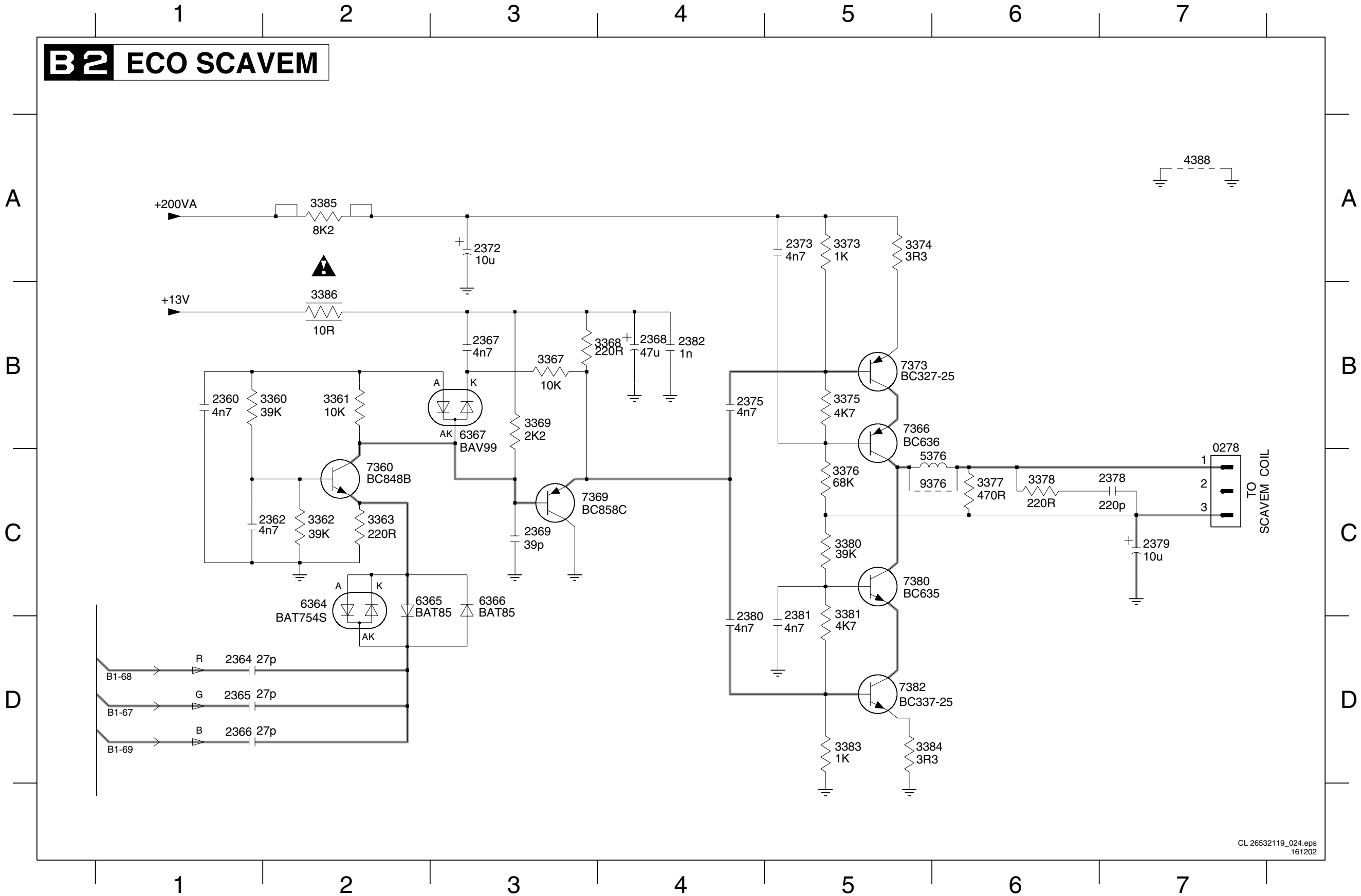
CRT Panel ECO SCAVEM

**B 1** CRT PANEL (ECO SCAVEM)



CRT Panel ECO SCAVEM

B2 ECO SCAVEM



- 0278 C7
- 2360 B1
- 2362 C2
- 2364 D1
- 2365 D1
- 2366 D1
- 2367 B3
- 2368 B4
- 2369 C3
- 2372 A3
- 2373 A5
- 2375 B4
- 2378 C7
- 2379 C7
- 2380 C4
- 2381 C5
- 2382 B4
- 2383 D5
- 2384 D5
- 2385 A2
- 2386 B2
- 2387 A7
- 2388 C6
- 2389 C2
- 2390 C2
- 2391 C2
- 2392 C3
- 2393 B3
- 2394 C2
- 2395 C3
- 2396 B5
- 2397 C3
- 2398 B5
- 2399 C5
- 2400 D5
- 2401 C6