

Technical Service Data

Model no.: 19LT010L/35

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Service and Quality
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REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

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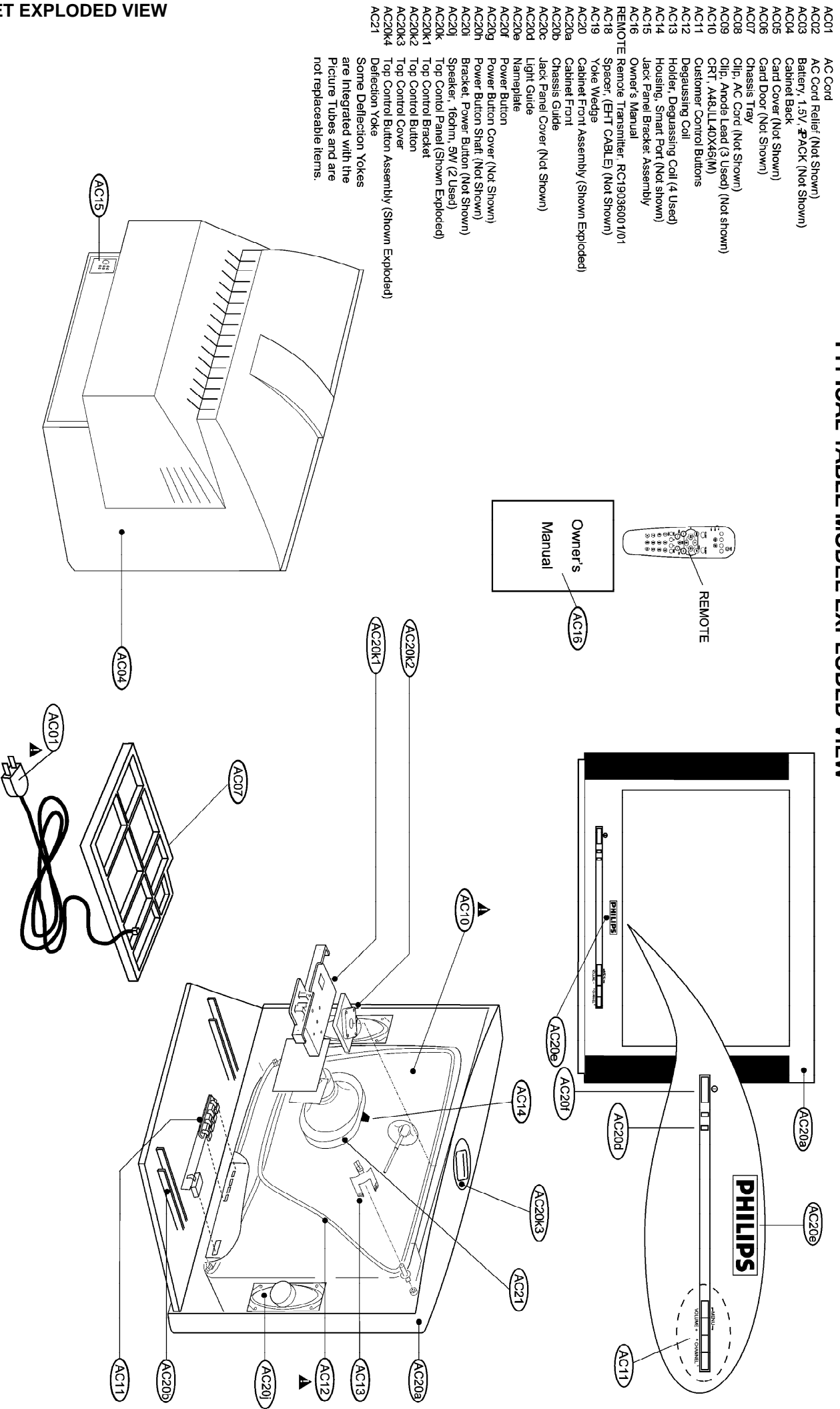
Mechanical Diagrams

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TYPICAL TABLE MODEL EXPLODED VIEW



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Electrical Adjustments

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Alignments - S8 Chassis

Index of this chapter:

1. General Alignment Conditions
2. Commercial Models SDAM Entry
3. Hardware Alignments
4. Software Alignments and Settings

Note: The Service Default Alignment Mode (SDAM) is described in the "Service Modes, Error Codes and Fault Finding" section. SDAM menu navigation is performed by using the MENU UP, MENU DOWN, MENU LEFT, and MENU RIGHT keys of the remote control transmitter.

General Alignment Conditions

Perform all electrical adjustments under the following conditions:

- AC voltage and frequency: 110V ($\pm 10\%$), 60Hz ($\pm 5\%$).
- Connect the television set to the AC power via an isolation transformer.
- Allow the television set to warm up for approximately 20 minutes.
- Measure the voltages and waveforms in relation to chassis ground (with the exception of the voltages on the primary side of the power supply). Never use heatsinks as ground.
- Test probe: $R_i > 10\text{MO}$; $C_i < 2.5\text{pF}$.
- Use an isolated trimmer/screwdriver to perform the alignments.

Service Default Alignment Mode (SDAM) Entry for Commercial Models

Note: For commercial models, a master setup remote control is required in order to access the Service Default Alignment Mode (SDAM).

1. Use the master setup remote control to identify the television's operational mode (either "consumer" or "commercial"). Place the master setup remote control in *setup mode* by pressing the TV SETUP key.
2. Press the RECALL key. Information similar to the following will be displayed.

Status Item	Status Data	Meaning
SYSTEM STATUS (L011TV-US4PV)		Information title

MODE	COMMERCIAL/CONSUMER	<i>Operational mode</i>
CHANNEL	CHANNEL, INPUT	<i>Currently tuned channel/input</i>
DCM	OFF/ON	<i>Data Comm. Module online/offline</i>
CODES	209 222 1 33	<i>Internal data for factory/service use</i>
SIGNAL	TUNED/NOT TUNED	<i>Valid signal present/absent</i>
OP HRS	0031h	<i>Number of hours set has operated (hex)</i>
ERRORS	0 0 0 0 0	<i>Internal data for factory/service use</i>
VERSION	3.3	<i>Microprocessor software version</i>

- To change the television's mode, ensure the master setup remote control is in setup mode, then press the 0-2-4-9-9-5-MENU keys in order, without permitting the display to time out while entering the key sequence.

Note: *If the operational mode is changed, the television must be turned off and then back on to complete the mode change. When the television is in consumer mode, do not use the master setup remote control to activate commercial mode features.*

- When the television is in commercial mode, the Institutional Television Menu may be accessed by pressing the MENU button. Though the specific items in the menu will vary, information similar to the following will be displayed.

Menu Item	Settings / Options
(MENU TITLE)	SETUP MENU / MAIN MENU
LANGUAGE	ENGLISH / ESPANOL / FRANCAIS
CHANNEL INSTALL	>
CABLE TUNING	ON / OFF
BRIGHTNESS	--- --- 31
COLOR	--- --- 31
CONTRAST	--- --- 31
SHARPNESS	--- --- 31
TINT	--- --- 0
NOISE REDUCTION	ON / OFF
SOUND MODE	MONO / STEREO
SAP	OFF / NO SAP / ON
AUDIO OUT	FIXED / VARIABLE
BALANCE	--- --- 0
TREBLE	--- --- 31
BASS	--- --- 31
INCRED STEREO	ON / OFF
AVL	ON / OFF
VOLUME BAR	ON / OFF
MIN VOLUME	----- 0
MAX VOLUME	----- 63
SWITCH ON VOLUME	--- --- 31
SWITCH ON CHANNEL	CH. 1-125 / FRONT / AUX / S-VIDEO / CVI / STANDARD
POWER ON	STANDARD / FORCED
CHANNEL DISPLAY	NUMBER / LABEL / ALL / NONE
KEYBOARD LOCK	ON / OFF
ESP	1 - 99 / OFF
AUDIO / VIDEO MUTE	OFF / BLACK / BLUE
EXT AUD / VID OUT	ON / OFF
WELCOME MESSAGE	>

CHANNEL GUIDE	POWER ON / OFF / ON
REMINDER	ON / OFF
3 DIGIT ENTRY	ON / OFF
A/CH A/V SWITCH	ON – OFF
CC	OFF / CC-1 / CC-2 / CC ON MUTE
SAVE CC	ON / OFF
V-CHIP MENU ITEM	ON / OFF
SAVE V-CHIP	ON / OFF
V-CHIP SETUP	>
SLEEPTIMER	OFF / 15 / 30 / 45 / 60 / 90 / 120 / 180 / 240
EXIT	>

5. After making changes to the settings, the EXIT option may be used to leave the Institutional Television Menu.

Hardware Alignments

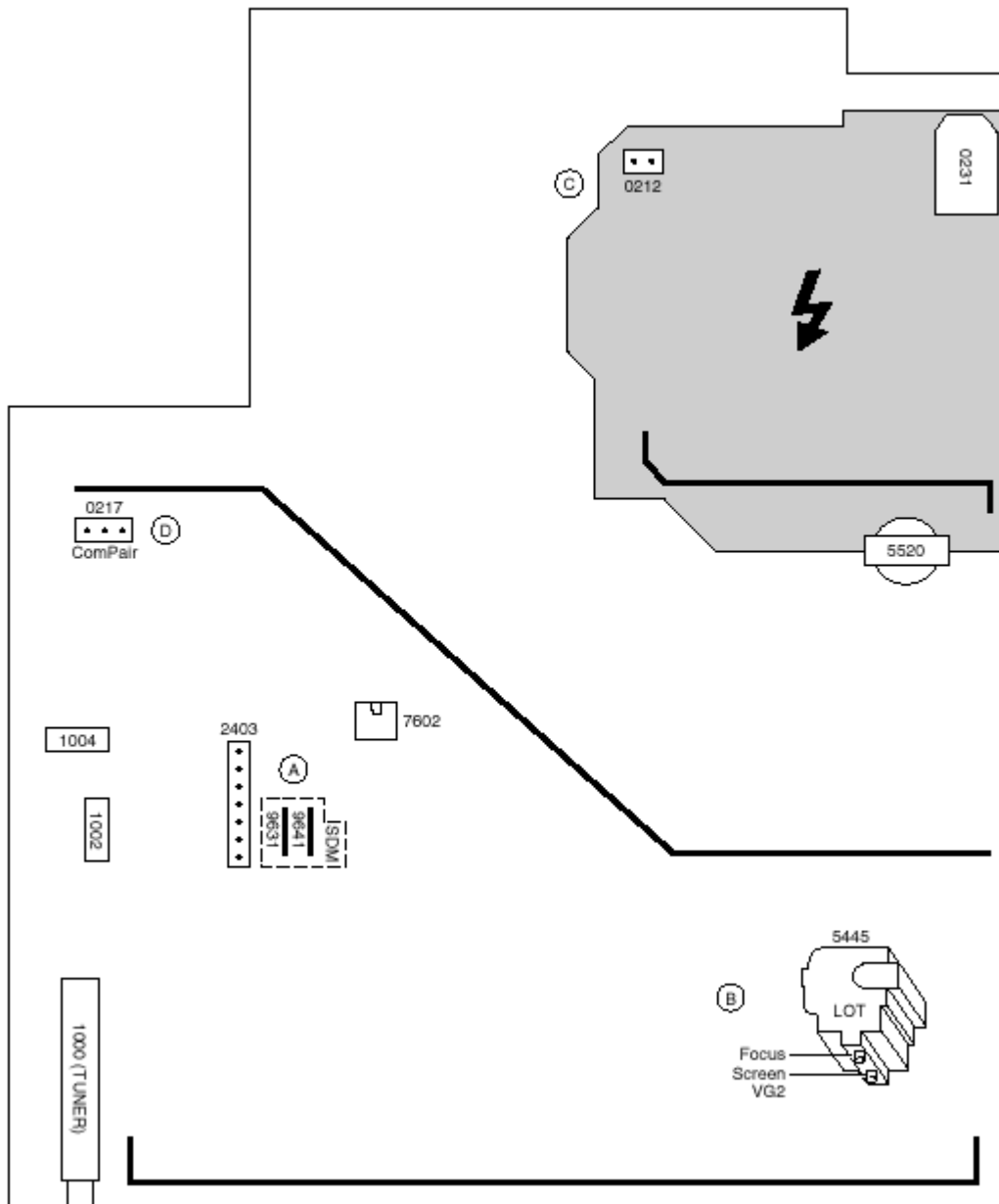


Figure: Top view LSP

Vg2 Adjustment

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the WHITE TONE sub menu.

3. Press the MENU LEFT or MENU RIGHT key to enter the WHITE TONE sub menu.
4. In the WHITE TONE sub menu, press the MENU UP/DOWN keys to select NORMAL RED, NORMAL GREEN, or NORMAL BLUE.
5. Use the MENU LEFT/RIGHT keys to set the values of NORMAL RED, NORMAL GREEN and NORMAL BLUE to 40.
6. Press the MENU button twice to enter the normal user menu.
7. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu (if necessary).
8. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
9. Use the MENU UP/DOWN keys to select PICTURE. Be sure to record the current value of PICTURE.
10. Use the MENU LEFT/RIGHT keys to set the value of PICTURE to zero.
11. Use the MENU UP/DOWN keys to select BRIGHTNESS. Be sure to record the current value of BRIGHTNESS.
12. Use the MENU LEFT/RIGHT keys to set the value of BRIGHTNESS to minimum (OSD just visible in a dark room).
13. Press the MENU button twice to return to the top level SDAM menu.
14. Press the STATUS/EXIT button to hide the SDAM onscreen display.
15. Connect the RF output of a video pattern generator to the antenna input.
16. Input a "black picture" test pattern to the television set.
17. Set the oscilloscope to 50 V/div and the time base to 0.2 milliseconds (external triggering on the vertical pulse).
18. Ground the scope at the CRT panel and connect a 10:1 probe to one of the cathodes of the picture tube socket (see schematic diagram B).
19. Measure the cut off pulse during first full line after the frame blanking (see Fig. 8-2). You will see two pulses, one being the cut off pulse and the other being the white drive pulse. Choose the one with the lowest value; this is the cut off pulse.
20. Select the cathode with the highest DC voltage for the alignment. Adjust the V Cut-Off of this gun with the SCREEN potentiometer(see Fig. 8-1) on the LOT to the correct value (see table below).
21. Press the STATUS/EXIT button to display the SDAM onscreen display.

22. Press the MENU button to enter the normal user menu.
23. In the normal user menu, use the MENU UP/DOWN keys to highlight the PICTURE sub menu (if necessary).
24. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
25. Use the MENU UP/DOWN keys to select PICTURE.
26. Use the MENU LEFT/RIGHT keys to reset the value of PICTURE to the original value.
27. Use the MENU UP/DOWN keys to select BRIGHTNESS.
28. Use the MENU LEFT/RIGHT keys to reset the value of BRIGHTNESS to the original value.
29. Press the MENU button twice to return to the top level SDAM menu.
30. Use the POWER button on the remote control transmitter or the POWER button on the television set to turn off the television set. This will save the changes made in SDAM.

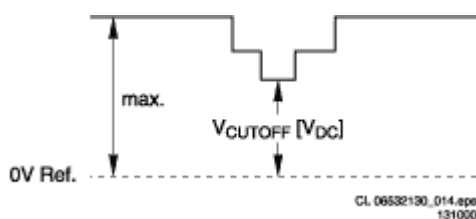


Figure: Waveform Vg2 alignment

V Cut-Off Values

Screen Size	Cut-off Voltage
13V/14", 14RF/15RF, 17",19V/20", 21"	+135V +/- 4V

Focusing

1. Connect the RF output of a video pattern generator to the antenna input.
2. Input a circle or crosshatch test pattern to the television set.
3. Press the AUTO PICTURE button on the remote control transmitter repeatedly to choose PERSONAL or MOVIES picture mode.
4. Adjust the FOCUS potentiometer (see Fig. 8-1)until the vertical lines near the left and right sides of the screen, and near the horizontal center of the screen, are at minimum width without visible haze.

Software Alignments and Settings

The following options are performed in the Service Default Alignment Mode (SDAM). SDAM is described in the "Service Modes, Error Codes and Fault Finding" section. The following alignments are explained:

- Options
- Tuner
- White tone
- Geometry
- Audio

Options

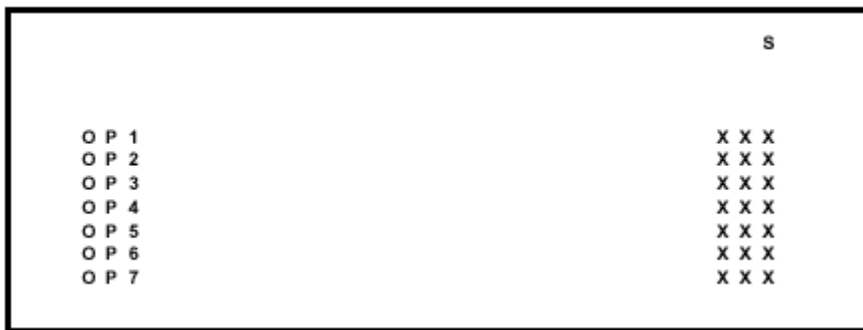


Figure: Options Screen

Options are used to control the presence or absence of certain features and hardware.

How to change an Option Byte

An Option Byte represents a number of different options. Changing these bytes directly makes it possible to set all options very quickly. All options are controlled via seven option bytes.

To change Option Byte(s):

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the OPTIONS sub menu.
3. Press the MENU LEFT or MENU RIGHT key to enter the OPTIONS sub menu.

4. In the OPTIONS sub menu, press the MENU UP/DOWN keys to select OP 1 through OP 7.
5. Use the number keys on the remote control transmitter to enter a new value for the selected option byte. The value must be entered as a three-digit value (for example, "4" would be entered as "0-0-4").
6. The selected value must be between 0 and 255.
7. When all desired changes to the option bytes are made, press the MENU button to return to the top level SDAM menu. This will save changes to the option byte settings.
8. To ensure the option byte changes take effect:
 - Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
 - Disconnect the television set from AC power for at least ten seconds.
 - Reconnect the television set to AC power.
 - Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

Option Byte Codes - S8 Chassis

MODEL	OPTION BYTES						
	OP1	OP2	OP3	OP4	OP5	OP6	OP7
13LT010L/35	132	16	150	148	8	0	0
13PR12 W321	0	23	1	0	144	153	0
14LK10 0021	0	23	1	0	144	153	0
14LL10 0131	16	23	1	0	144	153	0
19LT010L/35	132	16	150	148	8	0	0
19LT220L/17	132	16	2	132	136	0	0
19PR11 C321	0	23	1	0	144	153	0
19PR11 C322	0	23	1	0	144	153	0
19PR16 C321	0	23	1	0	144	153	0
19PR16 C322	0	23	1	0	144	153	0
19PR30 C122	1	23	1	1	144	153	0
19PS35 S321	0	215	1	64	144	153	0
19PS35 S322	0	215	1	64	144	153	0
19PS45 S321	0	23	1	1	144	153	0
19PS45 S322	0	23	1	1	144	153	0
19PS50 S321	0	23	1	162	180	153	0
19ST220L/17	132	16	2	132	8	0	0
20LL20 0132	16	23	1	0	144	153	0
20LW20 2232	16	23	1	162	180	153	0

20LX20 0132	16	23	1	0	144	153	0
20LZ20 2222	16	23	1	1	144	153	0
CH0119 C322	133	16	2	132	0	0	0
HC0113 C321	1	16	148	148	0	0	0
HC0119 C322	1	16	148	148	0	0	0
PA0113 C321	221	218	35	36	0	0	0
PA0132 C321	223	222	43	40	0	0	0
PC0119 C322	133	16	2	132	0	0	0
PL0119 C322	1	16	0	132	0	0	0

* Option Byte Data for these models was not available at manual release.
Refer to future updates to this manual regarding these models.

Tuner

Note: Described alignments are only necessary when the NVM (part reference number 7602) is replaced.

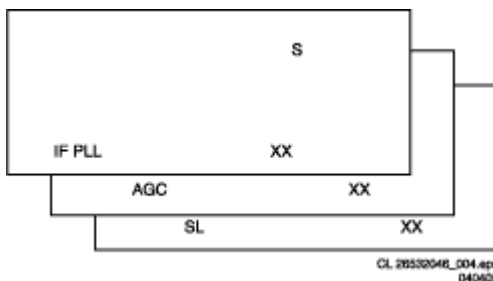


Figure: Tuner alignment screens

IF PLL

This adjustment is auto-aligned. Therefore, no action is required.

AGC (AGC take over point)

1. Connect the RF output of a video pattern generator to the antenna input.
2. Input a color bar test pattern to the television set.
3. Set the amplitude of the video pattern generator to 10 mV and set the frequency to 61.25 MHz (channel 3).
4. Connect a DC multimeter to pin 1 of the tuner (item 1000 on the main chassis).
5. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.

6. Use the MENU UP/DOWN keys to highlight the TUNER sub menu.
7. Press the MENU LEFT/RIGHT keys to enter the TUNER sub menu.
8. Use the MENU UP/DOWN keys to select AGC.
9. Use the MENU LEFT/RIGHT keys to adjust the AGC value (default value is 27) until the voltage at pin 1 of the tuner lies between 3.8V and 2.3V.
10. Press the MENU button to return to the top level SDAM menu.
11. To ensure the AGC change takes effect:
 - Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
 - Disconnect the television set from AC power for at least ten seconds.
 - Reconnect the television set to AC power.
 - Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

SL (Slicing Level)

This adjustment sets the sync slicing level for non-standard signals.

SL should be turned ON to help correct picture instability in premium decoded cable channels.

OFF: slicing level dependent on noise detector

ON: fixed slicing level of 70%

To adjust SL:

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the TUNER sub menu.
3. Press the MENU LEFT/RIGHT keys to enter the TUNER sub menu.
4. Use the MENU UP/DOWN keys to select SL.
5. Use the MENU LEFT/RIGHT keys to toggle SL "Off" and "On"
6. Press the MENU button to return to the top level SDAM menu.
7. To ensure the SL setting is saved:

- Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
- Disconnect the television set from AC power for at least ten seconds.
- Reconnect the television set to AC power.
- Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

White Tone

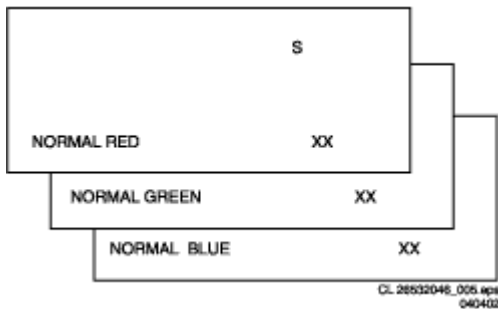


Figure: White tone alignment screens

The values of the black cut off level can be adjusted in the WHITE TONE sub menu. Normally, no alignment is needed for WHITETONE, and the given default values are used.

Default settings for NORMAL (color temperature = 9600K):

- NORMAL RED = 40
- NORMAL GREEN = 40
- NORMAL BLUE = 40

To adjust NORMAL RED, NORMAL GREEN, and NORMAL BLUE:

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the WHITE TONE sub menu.
3. Press the MENU LEFT/RIGHT keys to enter the WHITE TONE sub menu.
4. Use the MENU UP/DOWN keys to select NORMAL RED, NORMAL GREEN, or

NORMAL BLUE.

5. Use the MENU LEFT/RIGHT keys to adjust the value of NORMAL RED, NORMAL GREEN, or NORMAL BLUE.
6. When all desired changes to the WHITE TONE submenu values are made, press the MENU button to return to the top-level SDAM menu.
7. To ensure the WHITE TONE settings are saved:
 - Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
 - Disconnect the television set from AC power for at least ten seconds.
 - Reconnect the television set to AC power.
 - Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

Geometry

The geometry alignments menu contains several items for correct picture geometry alignment.

1. Connect the RF output of a video pattern generator to the antenna input.
2. Input a crosshatch test pattern to the television set.
3. Set the amplitude of the video pattern generator to at least 1mV and set the frequency to 61.25MHz (channel 3).
4. Press the AUTO PICTURE button on the remote control transmitter repeatedly to choose PERSONAL or MOVIES picture mode.
5. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
6. Use the MENU UP/DOWN keys to highlight the GEOMETRY sub menu.
7. Press the MENU LEFT/RIGHT keys to enter the GEOMETRY sub menu.
8. Use the MENU UP/DOWN keys to highlight either the HORIZONTAL sub menu or the VERTICAL sub menu.
9. Press the MENU LEFT/RIGHT keys to enter either the HORIZONTAL sub menu or the VERTICAL sub menu.

10. Use the MENU UP/DOWN keys to select items in the HORIZONTAL sub menu or the VERTICAL sub menu.
11. Use the MENU LEFT/RIGHT keys to adjust the values of items in the HORIZONTAL and VERTICAL sub menus.
12. When all desired changes to the HORIZONTAL and VERTICAL sub menu values are made, press the MENU button twice to return to the top level SDAM menu.
13. To ensure the GEOMETRY settings are saved:
 - Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
 - Disconnect the television set from AC power for at least ten seconds.
 - Reconnect the television set to AC power.
 - Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

The following alignments can be performed in the GEOMETRY submenu:

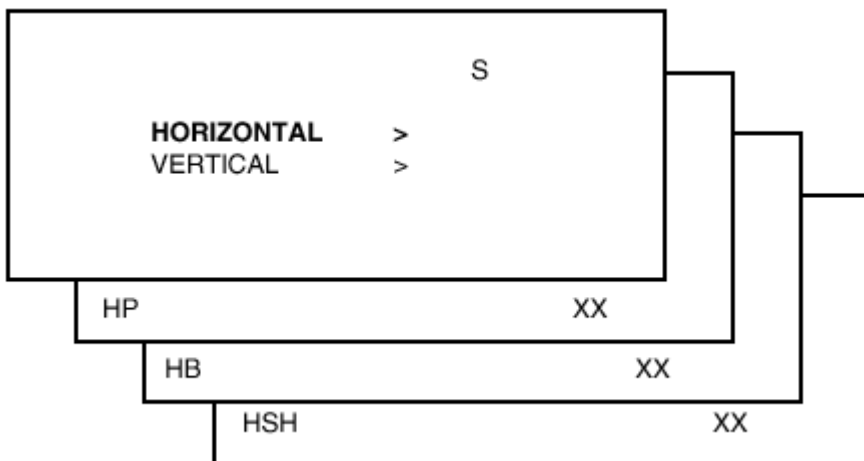


Figure: Horizontal geometry alignment screens

Horizontal:

- **Horizontal Parallelogram (HP).** Aligns straight vertical lines at the top and the bottom of the screen; vertical rotation around the center.
- **Horizontal Bow(HB).** Aligns straight horizontal lines at the top and the bottom of the screen; horizontal rotation around the center.
- **Horizontal Shift(HSH).** Aligns the horizontal center of the picture to the horizontal center of the CRT.

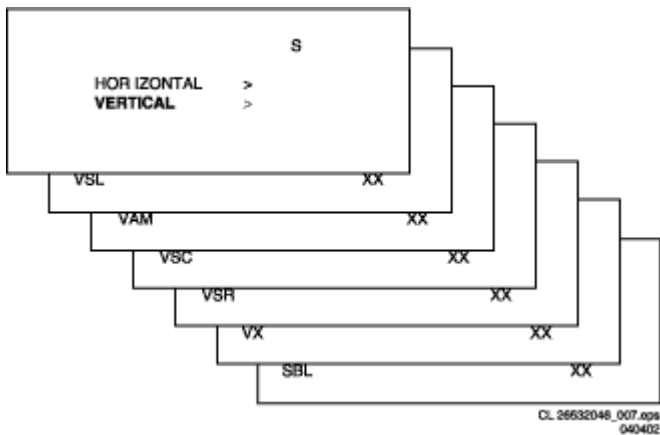


Figure: Vertical geometry alignment screens

Vertical:

- **Vertical slope (VSL).** Aligns the picture so the proportions are the same at the top and bottom of the screen. This alignment must be performed first, before all other vertical alignments. Turning SBL ON will assist in performing this alignment.
- **Vertical Amplitude(VAM).** Aligns the height of the picture (other vertical alignments are NOT compensated).
- **Vertical S-Correction(VSC).** Aligns the vertical linearity, so that the vertical intervals of the grid-patterns are the same over the entire height of the screen.
- **Vertical Shift(VSH).** Aligns the vertical center of the picture to the vertical center of the CRT. After performing this alignment, it may be necessary to perform the VAM alignment again.
- **Vertical Zoom(VX).** Adjusts picture height.
- **Service blanking(SBL).** Turns the blanking of the lower half of the screen ON or OFF (to be used in combination with the vertical slope alignment).

The table below lists the default GEOMETRY values for the different television sets.

Default Geometry Values

Alignment	Description	13L100/85R Mono	19L135/37R	19L145/37R BTSC-NON-	19L145/85R BTSC-NON-	20L145/37R BTSC DBX	20L135/37R
HP	Hor. Parallelogra	31	31	31	31	31	31
HB	Hor. Bow	31	31	31	31	31	31
HSH	Hor. S hift	23	23	23	23	23	23

VSL	Vert. Slope	31	38	31	31	31	31
VAM	Vert. Amplitude	26	34	26	26	26	26
VSC	Vert. S -correction	23	23	23	23	23	23
VSH	Vert. S hift	30	35	26	26	26	26
VX	Vert. Zoom	25	25	25	25	25	25

Audio

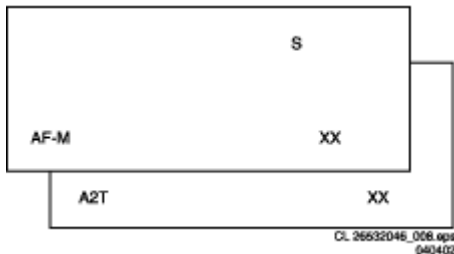


Figure: Audio alignment screens

No alignments are necessary for the AUDIO sub menu. Use the default values.

AF-M

Default value is 300.

To adjust AF-M:

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the AUDIO sub menu.
3. Press the MENU LEFT/RIGHT keys to enter the AUDIO sub menu.
4. Use the MENU UP/DOWN keys to select AF-M.
5. Use the MENU LEFT/RIGHT keys to adjust the value of AF-M to 300.
6. Press the MENU button to return to the top level SDAM menu.
7. To ensure the AF-M setting is saved:

- Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
- Disconnect the television set from AC power for at least ten seconds.
- Reconnect the television set to AC power.
- Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

A2T (TV A2 Threshold)

Default value is 250.

To adjust A2T:

1. Enter SDAM:
 - Press the following key sequence on the remote control transmitter:
0-6-2-5-9-6-MENU
 - Do not allow the display to time out between entries while keying the sequence.
2. Use the MENU UP/DOWN keys to highlight the AUDIO sub menu.
3. Press the MENU LEFT/RIGHT keys to enter the AUDIO sub menu.
4. Use the MENU UP/DOWN keys to select A2T.
5. Use the MENU LEFT/RIGHT keys to adjust the value of A2T to 250.
6. Press the MENU button to return to the top level SDAM menu.
7. To ensure the A2T setting is saved:
 - Turn the television set OFF by using the POWER button on the remote control transmitter or the local keyboard.
 - Disconnect the television set from AC power for at least ten seconds.
 - Reconnect the television set to AC power.
 - Turn the television set ON by using the POWER button on the remote control transmitter or the local keyboard.

Technical Service Data

Model no.: 19LT010L/35

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Service and Quality
Service Publications Dept.
One Philips Drive
P.O. Box 14810
Knoxville, TN 37914

Parts List

REFER TO SAFETY GUIDELINES

SAFETY NOTICE: ANY PERSON ATTEMPTING TO SERVICE THIS CHASSIS MUST FAMILIARIZE HIMSELF WITH THE CHASSIS AND BE AWARE OF THE NECESSARY SAFETY PRECAUTIONS TO BE USED WHEN SERVICING ELECTRONIC EQUIPMENT CONTAINING HIGH VOLTAGES.

CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING

Main Chassis							
	Main Chassis			2412	Cap, 33n, 10%, 100v, Polyester	2222	347 90236
	CBA Main Chassis	3139	187 17501	2413	Cap, 10u, 20%, 250v, Electrolytic. . .	2020	012 93495
S 0127	2 Pin Fuse Socket.	2422	088 00271	2414	Cap, 1000u, 20%, 16v, Electrolytic . .	2020	021 91049
S 0138	IC clip for 7471	3104	031 22081	2415	Res, 470 ohm, 5%, 1/10W, Metalized Glas	3198	021 54710
S 0140	Clip for 7402	3139	121 24581	2416	Cap, 820p, 10%, 2000v, Ceramic	2020	558 90486
0211	2 Pin Connector.	2422	025 16269	2417	Cap, 1000u, 20%, 16v, Electrolytic . .	2020	021 91049
0212	2 Pin Connector.	2422	025 16375	2418	Cap, 10n, 10%, 50v, Ceramic.	3198	017 01030
0217	3 Pin Connector.	2412	020 00725	2419	Cap, 1u, 20%, 50v, Electrolytic. . . .	2020	021 91147
0220	3 Pin Connector.	2422	025 04851	2420	Cap, 1u, 20%, 50v, Electrolytic. . . .	3198	025 51080
0221	4 Pin Connector.	2422	025 15503	2422	Cap, 470u, 20%, 16v, Electrolytic. . .	2020	021 91577
S 0222	2 Pin Connector.	2422	025 10646	2423	Cap, 10u, 20%, 100v, Electrolytic. . .	2020	021 90813
0223	Socket, Cinch, 3 Pin	2422	026 05182	2425	Cap, 39p, 50v, Ceramic	3198	016 33990
0225	Socket, MDIN, 10 Pin	2422	026 04926	2471	Cap, 100n, 10%, 50v, Polyester	3198	014 01040
0240	7 Pin Connector.	2422	025 11244	2472	Cap, 100n, 10%, 50v, Polyester	3198	014 01040
0243	6 Pin Connector.	2422	025 04854	2473	Cap, 100u, 20%, 50v, Electrolytic. . .	2020	021 90587
0244	3 Pin Connector.	2422	025 04851	2475	Cap, 470p, 5%, 50v, Ceramic.	3198	016 04710
0245	6 Pin Connector.	2422	025 04854	2476	Cap, 220n, 10%, 50v, Polyester	3198	014 02240
0246	3 Pin Connector.	2422	025 16383	2477	Cap, 470p, 5%, 50v, Ceramic.	3198	016 04710
0251	3 Pin Connector.	2412	020 00725	2500	Cap, 470n, 20%, 275v, Metalized Polypro		
S 0254	9 Pin CRT Socket	2422	500 80076		pylene	2022	330 00018
0259	5 Pin Connector.	2422	025 15848	2501	Cap, 2n2, 10%, 1000v, Ceramic.	3198	019 52220
0262	3 Pin Connector.	2422	025 16937	2502	Cap, 2n2, 10%, 1000v, Ceramic.	3198	019 52220
S 1000	Tuner, V+U PLL	2422	542 90108	2503	Cap, 220u, 20%, 200v, Electrolytic . .	2020	024 90557
1002	SAW Filter, 45.75 MHz.	2422	549 44518	2506	Cap, 2n2, 10%, 1000v, Ceramic.	3198	019 52220
1200	Ceramic Filter, 4.5 MHz.	2422	549 40807	2508	Cap, 470p, 10%, 1000v, Ceramic. . . .	3198	019 64710
S 1500	Fuse, T4A, 250V.	2422	086 10914	S 2515	Cap, 1n5, 20%, v, Ceramic.	2020	554 90172
S 1515	Relay, 1P, 12V	2422	132 07444	2520	Cap, 100n, 10%, 16v, Ceramic	3198	017 01040
1600	Tact Switch.	2422	128 02742	2521	Cap, 22u, 20%, 50v, Electrolytic . . .	3198	025 52290
1601	Tact Switch.	2422	128 02742	2522	Cap, 100n, 10%, 16v, Ceramic	3198	017 01040
1602	Tact Switch.	2422	128 02742	2523	Cap, 1n5, 10%, 2000v, Ceramic.	2020	558 90489
1603	Tact Switch.	2422	128 02742	2525	Cap, 470p, 10%, 50v, Ceramic	3198	017 04710
1606	Tact Switch.	2422	128 02742	2526	Cap, 1n, 10%, 50v, Ceramic	3198	017 01020
1660	Crystal Resonator, 12 MHz, 20P	2422	543 01203	2527	Cap, 470p, 10%, 50v, Ceramic	3198	017 04710
2004	Cap, 47n, 10%, 25v, Ceramic.	3198	023 04730	2540	Cap, 15n, 10%, 50v, Ceramic.	3198	017 01530
2005	Cap, 10u, 20%, 50v, Electrolytic . . .	3198	025 51090	2560	Cap, 1n, 10%, 1000v, Ceramic	3198	019 61020
2006	Cap, 470u, 20%, 16v, Electrolytic. . .	3198	025 24710	2561	Cap, 47u, 20%, 160v, Electrolytic. . .	2020	021 91358
2007	Cap, 100n, +80/-20%, 25v, Ceramic. . .	3198	023 21040	2562	Cap, 1n, 10%, 50v, Ceramic	3198	019 11020
2008	Cap, 100u, 20%, 25v, Electrolytic. . .	3198	025 31010	2563	Cap, 100n, 10%, 50v, Polyester	3198	014 01040
2009	Cap, 22n, 10%, 25v, Ceramic.	3198	017 32230	2564	Cap, 2u2, 20%, 16v, Electrolytic . . .	2020	012 93057
2122	Cap, 330p, 10%, 50v, Ceramic	3198	017 33310	2565	Cap, 470p, 10%, 1000v, Ceramic	3198	019 64710
2123	Cap, 2u2, +80/-20%, 10v, Ceramic . . .	3198	017 22250	2567	Cap, 47u, 20%, 25v, Electrolytic . . .	3198	025 34790
2124	Cap, 330p, 10%, 50v, Ceramic	3198	017 33310	2569	Cap, 470p, 10%, 50v, Ceramic	3198	017 04710
2135	Cap, 22p, 5%, 50v, Ceramic	3198	016 32290	2580	Cap, 47u, 20%, 25v, Electrolytic . . .	3198	025 34790
2136	Cap, 22p, 5%, 50v, Ceramic	3198	016 32290	2601	Cap, 220n, +80/-20%, 25v, Ceramic. . .	3198	023 22240
2202	Cap, 100n, +80/-20%, 25v, Ceramic. . .	3198	023 21040	2602	Cap, 100p, 5%, 50v, Ceramic.	3198	016 01010
2203	Cap, 100n, +80/-20%, 25v, Ceramic. . .	3198	023 21040	2606	Cap, 1n, 10%, 50v, Ceramic	3198	017 01020
2204	Cap, 100n, +80/-20%, 25v, Ceramic. . .	3198	023 41040	2607	Cap, 33p, 5%, 50v, Ceramic	3198	016 03390
2205	Cap, 220n, +80/-20%, 25v, Ceramic. . .	3198	023 22240	2608	Cap, 1u, +80/-20%, 16v, Ceramic. . . .	3198	017 21050
2208	Cap, 100n, +80/-20%, 25v, Ceramic. . .	3198	023 41040	2609	Cap, 33p, 5%, 50v, Ceramic	3198	016 03390
2209	Cap, 4u7, 20%, 50v, Electrolytic . . .	3198	025 54780	2611	Cap, 1u, +80/-20%, 16v, Ceramic. . . .	3198	017 21050
2210	Cap, 470n, +80/-20%, 10v, Ceramic. . .	3198	017 44740	2612	Cap, 68p, 5%, 50v, Ceramic	3198	016 06890
2211	Cap, 470n, +80/-20%, 16v, Ceramic. . .	3198	017 24740	2613	Cap, 68p, 5%, 50v, Ceramic	3198	016 06890
2216	Cap, 470u, 20%, 16v, Electrolytic. . .	3198	025 24710	2615	Cap, 1n, 10%, 50v, Ceramic	3198	017 01020
2217	Cap, 22n, 10%, 25v, Ceramic.	3198	017 32230	2616	Cap, 470n, +80/-20%, 16v, Ceramic. . .	3198	017 24740
2219	Cap, 220n, +80/-20%, 25v, Ceramic. . .	3198	023 22240	2618	Cap, 1u, +80/-20%, 16v, Ceramic. . . .	3198	017 21050
2220	Cap, 470n, 10%, 50v, Polyester	3198	014 04740	2619	Cap, 1u, +80/-20%, 16v, Ceramic. . . .	3198	017 21050
2221	Cap, 22n, +80/-20%, 50v, Ceramic . . .	3198	017 22230	2691	Cap, 220u, 20%, 25v, Electrolytic. . .	3198	025 32210
2226	Cap, 4n7, 10%, 50v, Ceramic.	3198	017 34720	2902	Cap, 220u, 20%, 50v, Electrolytic. . .	3198	026 52210
2227	Cap, 1n2, 10%, 50v, Ceramic.	2238	586 15624	2903	Cap, 1u, 20%, 50v, Electrolytic. . . .	3198	025 51080
2228	Cap, 330p, 5%, 50v, Ceramic.	3198	016 33310	2904	Cap, 1u, +80/-20%, 16v, Ceramic. . . .	3198	017 21050
2229	Cap, 10u, 20%, 50v, Electrolytic . . .	3198	025 51090	2905	Cap, 1n, 5%, 50v, Ceramic.	3198	016 01020
2233	Cap, 820p, 5%, 50v, Ceramic.	3198	016 08210	2908	Cap, 10u, 20%, 50v, Electrolytic . . .	3198	025 51090
2241	Cap, 1n5, 10%, 50v, Ceramic.	3198	017 31520	2941	Cap, 10u, 20%, 50v, Electrolytic . . .	3198	025 51090
2242	Cap, 1u, +80/-20%, 10v, Ceramic. . . .	3198	017 41050	2950	Cap, 330p, 5%, 50v, Ceramic.	3198	016 03310
2243	Cap, 2n2, 10%, 50v, Ceramic.	3198	017 02220	3000	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2244	Cap, 100n, 10%, 63v, Metalized Polyeste	2222	370 75104	3001	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2245	Cap, 220n, +80/-20%, 25v, Ceramic. . .	3198	023 22240	3002	Res, Zero ohm, "Chip" Jumper	3198	021 90030
2246	Cap, 4u7, 20%, 50v, Electrolytic . . .	3198	025 54780	3003	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198	021 51520
2247	Cap, 470u, 20%, 16v, Electrolytic. . .	3198	025 24710	3004	Res, 8K2, 5%, 1/16W, Metalized Glass .	3198	021 38220
2248	Cap, 22n, 10%, 25v, Ceramic.	3198	017 32230	3005	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2249	Cap, 22n, 10%, 25v, Ceramic.	3198	017 32230	3123	Res, 150 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01510
2250	Cap, 2u2, 20%, 50v, Electrolytic . . .	3198	025 52280	3124	RST SM 0603 47K PM5 COL	3198	021 34730
2252	Cap, 1n, 5%, 25v, Ceramic.	3198	016 31020	3125	Res, 150 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01510
2253	Cap, 1n, 5%, 25v, Ceramic.	3198	016 31020	3126	RST SM 0603 47K PM5 COL	3198	021 34730
2254	Cap, 100p, 5%, 50v, Ceramic.	3198	016 01010	3135	Res, 75 ohm, 5%, 1/6W, Carbon Film . .	3198	011 07590
2313	Cap, 220p, 5%, 50v, Ceramic.	3198	016 02210	3136	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2323	Cap, 390p, 5%, 50v, Ceramic.	3198	016 03910	3137	Res, 75 ohm, 5%, 1/6W, Carbon Film . .	3198	011 07590
2331	Cap, 390p, 5%, 50v, Ceramic.	3198	016 03910	3138	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2341	Cap, 2n2, 10%, 1000v, Ceramic.	2020	558 90571	3200	Res, 390 ohm, 5%, 1/6W, Carbon Film. .	3198	011 03910
2342	Cap, 47n, 10%, 250v, Metalized Polyeste	2222	365 45473	3201	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2343	Cap, 47n, 10%, 250v, Metalized Polyeste	2222	365 45473	3202	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2401	Cap, 680p, 10%, 50v, Ceramic	3198	019 16810	3203	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198	011 01010
2402	Cap, 680n, 5%, 250v, Metalized Polyprop			3204	Res, 10K, 5%, 1/6W, Carbon Film. . . .	3198	011 01030
	ylene.	2222	479 90027	3206	Res, 100K, 5%, 1/10W, Metalized Glass.	3198	021 51040
2405	Cap, 1n, 5%, 50v, Ceramic.	3198	016 01020	3207	Res, 1K, 5%, 1/6W, Carbon Film	3198	011 01020
2406	Cap, 330p, 5%, 50v, Ceramic.	3198	016 03310	3208	Res, 220 ohm, 5%, 1/16W, Metalized Glas	3198	021 32210
2407	Cap, 10n, 5%, 1600v, Polypropylene . .	2020	301 90249	3209	Res, 68 ohm, 5%, 1/16W, Metalized Glass	3198	021 36890
2408	Cap, 22n, +80/-20%, 50v, Ceramic . . .	3198	019 02230	3212	Res, 470 ohm, 5%, 1/16W, Metalized Glas	3198	021 34710
2409	Cap, 47u, 20%, 160v, Electrolytic. . .	2020	021 91139	3213	Res, 560 ohm, 5%, 1/6W, Carbon Film. .	3198	011 05610
2410	Cap, 470u, 20%, 16v, Electrolytic. . .	2020	021 91577	3217	Res, 330K, 5%, 1/16W, Metalized Glass.	3198	021 33340
2411	Cap, 47u, 20%, 25v, Electrolytic . . .	2020	021 90586	3218	Res, 82K, 5%, 1/16W, Metalized Glass .	3198	021 38230
				3219	Res, 2K2, 5%, 1/16W, Metalized Glass .	3198	021 32220

S = Safety Part Be sure to use exact replacement part.

S 3226	Res, 560 ohm, 5%, 1/16W, Metalized Glas	3198 021 35610	S 3527	Res, 2K2, 5%, 1/3W, Metal Film	2306 204 03222
3232	Res, 3K9, 5%, 1/16W, Metalized Glass .	3198 021 33920	3528	Res, 10K, 5%, 1/10W, Metalized Glass .	3198 021 51030
3235	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010	3529	Res, 47K, 5%, 1/10W, Metalized Glass .	3198 021 54730
3241	Res, 22K, 5%, 1/16W, Metalized Glass .	3198 021 32230	3530	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
3242	Res, 12K, 5%, 1/10W, Metalized Glass .	3198 021 51230	3531	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3244	Res, 820 ohm, 5%, 1/6W, Carbon Film. .	3198 011 08210	3541	Res, 470 ohm, 5%, 1/10W, Metalized Glas	3198 021 54710
3245	Res, 39K, 5%, 1/16W, Metalized Glass .	3198 021 33930	3542	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198 021 51520
3246	Res, 10K, 5%, 1/16W, Metalized Glass .	3198 021 31030	3543	Res, 82K, 1%, 3/5W, Metal Film	2312 915 18203
3247	Res, 220K, 5%, 1/10W, Metalized Glass.	3198 021 52240	3544	Res, 6K8, 1%, 3/5W, Metal Film	2312 915 16802
3248	Res, 27K, 5%, 1/16W, Metalized Glass .	3198 021 32730	3545	Res, 82K, 5%, 1/10W, Metalized Glass .	3198 021 58230
3249	Res, 820 ohm, 5%, 1/6W, Carbon Film. .	3198 011 08210	S 3547	Res, 0R33, 5%, 1W, Metal Film. . . .	3198 012 13370
3251	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010	3548	Res, 8K2, 5%, 1/10W, Metalized Glass .	3198 021 58220
3254	Res, 1M, 5%, 1/10W, Metalized Glass. .	3198 021 51050	3549	Res, 220 ohm, 5%, 1/6W, Carbon Film. .	3198 011 02210
3256	Res, 1K, 5%, 1/16W, Metalized Glass. .	3198 021 31020	S 3558	Res, 330 ohm, 5%, 1W, Metal Film . . .	3198 012 13310
3257	Res, 10M, 5%, 1/16W, Metalized Glass .	3198 021 31060	3561	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010
3258	Res, 330K, 5%, 1/10W, Metalized Glass.	3198 021 53340	3562	Res, 10K, 5%, 1/10W, Metalized Glass .	3198 021 51030
3259	Res, 470K, 5%, 1/16W, Metalized Glass.	3198 021 34740	3563	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
3311	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198 021 51520	S 3564	Res, 6R8, 5%, 2W, Metal Film	3198 012 26880
3312	Res, 330 ohm, 5%, 1/10W, Metalized Glas	3198 021 53310	3580	Res, 47K, 5%, 1/10W, Metalized Glass .	3198 021 54730
3313	Res, 10 ohm, 5%, 1/10W, Metalized Glass	3198 021 51090	3591	Res, Zero ohm, "Chip" Jumper	3198 021 90020
S 3314	Res, 18K, 5%, Metal Oxide.	2120 105 93597	3595	Res, 180K, 5%, 1/10W, Metalized Glass.	2120 108 30184
S 3316	Res, 68 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03689	3596	Res, 180K, 5%, 1/10W, Metalized Glass.	2120 108 30184
3317	Res, 1K5, 20%, 1/2W, Carbon Film. . .	3198 013 01520	3603	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010
3321	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198 021 51520	3604	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010
3322	Res, 330 ohm, 5%, 1/10W, Metalized Glas	3198 021 53310	3605	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
3323	Res, 10 ohm, 5%, 1/10W, Metalized Glass	3198 021 51090	3606	Res, 2K2, 5%, 1/6W, Carbon Film. . . .	3198 011 02220
S 3324	Res, 18K, 5%, Metal Oxide.	2120 105 93597	3607	Res, 2K2, 5%, 1/6W, Carbon Film. . . .	3198 011 02220
S 3326	Res, 68 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03689	3608	Res, 470 ohm, 5%, 1/6W, Carbon Film. .	3198 011 04710
3327	Res, 1K5, 20%, 1/2W, Carbon Film. . .	3198 013 01520	3611	Res, 100 ohm, 5%, 1/10W, Metalized Glas	3198 021 51010
3331	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198 021 51520	3618	Res, 6K8, 5%, 1/6W, Carbon Film. . . .	3198 011 06820
3332	Res, 330 ohm, 5%, 1/10W, Metalized Glas	3198 021 53310	3622	Res, 470 ohm, 5%, 1/10W, Metalized Glas	3198 021 54710
3333	Res, 10 ohm, 5%, 1/10W, Metalized Glass	3198 021 51090	3623	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
S 3334	Res, 18K, 5%, Metal Oxide.	2120 105 93597	3624	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010
S 3336	Res, 68 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03689	3625	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010
3337	Res, 1K5, 20%, 1/2W, Carbon Film. . .	3198 013 01520	3626	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
3341	Res, 1K5, 20%, 1/2W, Carbon Film. . .	3198 013 01520	3627	Res, 4K7, 5%, 1/10W, Metalized Glass .	3198 021 54720
S 3347	Res, 220 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03221	3628	Res, 10K, 5%, 1/10W, Metalized Glass .	3198 021 51030
3348	Res, 1K5, 20%, 1/2W, Carbon Film. . .	3198 013 01520	3630	Res, 2K2, 5%, 1/10W, Metalized Glass .	3198 021 52220
S 3349	Res, 1R2, 5%, 1/3W, Metal Film. . . .	2306 204 03128	3632	Res, Zero ohm, "Chip" Jumper	3198 021 90020
S 3350	Res, 1R2, 5%, 1/3W, Metal Film. . . .	2306 204 03128	3636	Res, 100 ohm, 5%, 1/10W, Metalized Glas	3198 021 51010
3401	Res, 330K, 5%, 1/2W, Metalized Glass .	2322 242 13334	3639	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3402	Res, 18K, 5%, 1/6W, Carbon Film. . . .	3198 011 01830	3681	Res, 390 ohm, 5%, 1/10W, Metalized Glas	3198 021 53910
S 3403	Res, 22 ohm, 5%, 3W, Metal Film. . . .	3198 012 32290	3682	Res, 3K3, 5%, 1/10W, Metalized Glass .	3198 021 53320
S 3404	Res, 6R8, 5%, 1/3W, Metal Film. . . .	2306 204 03688	3683	Res, 390 ohm, 5%, 1/10W, Metalized Glas	3198 021 53910
3406	Res, 10K, 5%, 1/6W, Carbon Film. . . .	3198 011 01030	3684	Res, 560 ohm, 5%, 1/10W, Metalized Glas	3198 021 55610
S 3407	Res, 220 ohm, 5%, 3W, Metal Film. . . .	3198 012 32210	3685	Res, 560 ohm, 5%, 1/10W, Metalized Glas	3198 021 55610
3408	Res, 1K, 5%, 1/6W, Carbon Film. . . .	3198 011 01020	3686	Res, 1K5, 5%, 1/10W, Metalized Glass .	3198 021 51520
3410	Res, 33K, 5%, 1/10W, Metalized Glass .	3198 021 53330	3691	Res, 330 ohm, 5%, 1/10W, Metalized Glas	3198 021 53310
S 3411	Res, 10 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03109	3693	Res, 220 ohm, 5%, 1/10W, Metalized Glas	3198 021 52210
3412	Res, 3K3, 1%, 3/5W, Metal Film. . . .	2312 915 13302	3901	Res, 1K, 5%, 1/10W, Metalized Glass. .	3198 021 51020
3414	Res, 1K5, 1%, 3/5W, Metal Film. . . .	2312 915 11502	3902	Res, 3K3, 5%, 1/10W, Metalized Glass .	3198 021 53320
3415	Res, 1K, 5%, 1/6W, Carbon Film. . . .	3198 011 01020	3903	Res, 8K2, 5%, 1/10W, Metalized Glass .	3198 021 58220
S 3416	Res, 3R9, 5%, 1/2W, Metal Film. . . .	2306 207 03398	3904	Res, 10K, 5%, 1/10W, Metalized Glass .	3198 021 51030
3417	Res, 33K, 5%, 1/6W, Carbon Film. . . .	3198 011 03330	3907	Res, 8K2, 5%, 1/10W, Metalized Glass .	3198 021 58220
3418	Res, 33K, 5%, 1/10W, Metalized Glass .	3198 021 53330	4001	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3419	Res, 6K8, 5%, 1/10W, Metalized Glass .	3198 021 56820	4002	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3420	Res, 33K, 5%, 1/10W, Metalized Glass .	3198 021 53330	4121	Res, Zero ohm, "Chip" Jumper	3198 021 90020
S 3421	Res, 6R8, 5%, 2W, Metal Film.	3198 012 26880	4133	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3422	Res, 100 ohm, 5%, 1/10W, Metalized Glas	3198 021 51010	4181	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3423	Res, 820 ohm, 5%, 1/10W, Metalized Glas	3198 021 58210	4212	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3424	Res, 100 ohm, 5%, 1/6W, Carbon Film. .	3198 011 01010	4216	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3425	Res, 15K, 5%, 1/6W, Carbon Film. . . .	3198 011 01530	4217	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3426	Res, Zero ohm, "Chip" Jumper	3198 021 90020	4410	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3427	Res, 12K, 5%, 1/6W, Carbon Film. . . .	3198 011 01230	4411	Res, Zero ohm, "Chip" Jumper	3198 021 90020
S 3428	Res, 39 ohm, 5%, 1/2W, Metal Film. . .	2306 207 03399	4501	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3431	Res, Zero ohm, "Chip" Jumper	3198 021 90020	4562	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3432	Res, 22 ohm, 5%, 1/6W, Carbon Film. . .	3198 011 02290	4604	Res, 3K3, 5%, 1/10W, Metalized Glass .	3198 021 53320
3433	Wire Jumper.	3198 036 90010	4613	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3471	Res, 3R9, 1%, 3/5W, Metal Film. . . .	2312 915 13908	4614	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3472	Res, 3R9, 1%, 3/5W, Metal Film. . . .	2312 915 13908	4615	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3473	Res, 2K2, 1%, 3/5W, Metal Film. . . .	2312 915 12202	4616	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3474	Res, 1K, 5%, 1/6W, Carbon Film. . . .	3198 011 01020	4617	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3475	Res, 2K2, 1%, 3/5W, Metal Film. . . .	2312 915 12202	4619	Res, Zero ohm, "Chip" Jumper	3198 021 90030
S 3476	Res, 1R5, 5%, 1/3W, Metal Film. . . .	2306 204 03158	4622	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3477	Res, 220 ohm, 5%, 1/6W, Carbon Film. .	3198 011 02210	4623	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3478	Res, 220 ohm, 5%, 1/6W, Carbon Film. .	3198 011 02210	4691	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3479	Res, 1K, 5%, 1/6W, Carbon Film. . . .	3198 011 01020	4692	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3500	Res, 3M3, 5%, 1/2W, Metalized Glass. .	2322 242 13335	4693	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3501	Res, 3M3, 5%, 1/2W, Metalized Glass. .	2322 242 13335	4696	Res, Zero ohm, "Chip" Jumper	3198 021 90020
S 3502	Res, NTC, 4R7, 20%, 3 1/10W.	2122 612 00055	4808	Res, Zero ohm, "Chip" Jumper	3198 021 90030
S 3503	Res, PTC, 10R, Degaussing.	2120 661 00026	4809	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3506	Res, 220 ohm, 20%, 1/2W, Carbon Film .	3198 013 02210	4811	Res, Zero ohm, "Chip" Jumper	3198 021 90030
S 3507	Surge Protector, DSP-301N-A21F A . . .	2422 549 43073	4812	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3508	Res, 1M5, 5%, 1/2W, Metalized Glass. .	2322 242 13155	4813	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3519	Res, 270 ohm, 5%, 1/6W, Carbon Film. .	3198 011 02710	4814	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3520	Res, 1K2, 5%, 1/10W, Metalized Glass .	3198 021 51220	4901	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3521	Res, 4R7, 5%, 1/6W, Carbon Film. . . .	3198 011 04780	4911	Res, Zero ohm, "Chip" Jumper	3198 021 90030
3522	Res, 330K, 5%, 1/10W, Metalized Glass.	3198 021 53340	4941	Res, Zero ohm, "Chip" Jumper	3198 021 90030
S 3523	Res, 100 ohm, 5%, 1/3W, Metal Film. . .	2306 204 03101	4982	Res, Zero ohm, "Chip" Jumper	3198 021 90020
3524	Res, 56K, 5%, 1/10W, Metalized Glass .	3198 021 55630	5001	Coil, 5u6.	3198 018 25680
3525	Res, 1K, 5%, 1/10W, Metalized Glass. .	3198 021 51020	5002	Coil, 820n	3198 018 18270
S 3526	Res, 0R15, 5%, 1W, Metal Film.	3198 012 11570	5201	Coil, 6u8.	3198 018 16880

S = Safety Part Be sure to use exact replacement part.

5202	Coil, 10u.	3198 018 21090	7522	Transistor, NPN, BC847B(COL)	3198 010 42030
5241	Coil, 10u.	3198 018 21090	7540	Transistor, NPN, BC547B(COL)	3198 020 40030
5242	Coil, 10u.	3198 018 11090	7560	IC, L78L33ACZ.	9322 134 92676
5341	Coil, 22u.	2422 535 95365	7561	Transistor, NPN, PDMC143ZT	9340 547 00215
5342	Bead Inductor, 100 MHz, 50 ohm	3198 018 90010	7580	Transistor, PNP, BC857B(COL)	3198 010 42150
5408	Coil, 27u.	2422 535 95366	7602	IC, M24C16-WBN6.	9322 147 25682
5410	Coil, 27u.	2422 535 95366	7902	IC, AN7523N.	9322 181 42682
5444	Transformer, Signal Driver, SC10009-03	2422 531 02446	9001	Wire Jumper.	3198 036 90010
S 5445	Transformer, LOT	3128 138 21541	9121	Wire Jumper.	3198 036 90010
5502	AC Filter, 5MH, 1A, C914-01 Y.	2422 549 44284	9171	Wire Jumper.	3198 036 90010
S 5520	Transformer, SMT Layer, SS28011-04 B	2422 531 02458	9172	Wire Jumper.	3198 036 90010
5521	Bead Inductor, 100 MHz, 50 ohm	3198 018 90010	9173	Wire Jumper.	3198 036 90010
5560	Bead Inductor, 100 MHz, 50 ohm	3198 018 90010	9174	Wire Jumper.	3198 036 90010
5561	Coil, 27u.	3198 018 22790	9175	Wire Jumper.	3198 036 90010
5562	Bead Inductor, 100 MHz, 50 ohm	3198 018 90010	9177	Wire Jumper.	3198 036 90010
5563	Bead Inductor, 100 MHz, 50 ohm	3198 018 90010	9182	Wire Jumper.	3198 036 90010
5602	Coil, 5u6.	3198 018 15680	9183	Wire Jumper.	3198 036 90010
5603	Coil, 5u6.	3198 018 15680	9191	Wire Jumper.	3198 036 90010
5604	Coil, 5u6.	3198 018 15680	9192	Wire Jumper.	3198 036 90010
6001	Zener Diode, 33 volt	3198 010 23390	9193	Wire Jumper.	3198 036 90010
6201	Diode, Signal, BAS316.	3198 010 10630	9301	Wire Jumper.	3198 036 90010
6202	Diode, Signal, BAS316.	3198 010 10630	9302	Wire Jumper.	3198 036 90010
6206	Zener Diode, 6.8 volt.	3198 020 56880	9303	Wire Jumper.	3198 036 90010
6241	Zener Diode, 6.8 volt.	3198 020 56880	9304	Wire Jumper.	3198 036 90010
6311	Diode, Signal, BAV21	3198 010 10070	9402	Wire Jumper.	3198 036 90010
6321	Diode, Signal, BAV21	3198 010 10070	9403	Wire Jumper.	3198 036 90010
6331	Diode, Signal, BAV21	3198 010 10070	9404	Wire Jumper.	3198 036 90010
6341	Diode, Signal, BAV21	3198 010 10070	9420	Wire Jumper.	3198 036 90010
6342	Diode, Signal, BA282	9337 587 20673	9421	Wire Jumper.	3198 036 90010
6343	Zener Diode, 8.2 volt.	3198 020 58280	9425	Wire Jumper.	3198 036 90010
6344	Res, Zero ohm, "Chip" Jumper	3198 021 90020	9426	Wire Jumper.	3198 036 90010
6401	Diode, Signal, BAV21	3198 010 10070	9427	Wire Jumper.	3198 036 90010
6402	Diode, Rect, BYV27-200	9322 126 72673	9428	Wire Jumper.	3198 036 90010
6404	Diode, Rect, BYV97G.	9335 214 80133	9430	Wire Jumper.	3198 036 90010
6405	Diode, Rect, BYV95A.	9335 000 90133	9431	Wire Jumper.	3198 036 90010
6406	Diode, Signal, BAV70	9331 849 10215	9432	Wire Jumper.	3198 036 90010
6407	Diode, Signal, BAS316.	3198 010 10630	9433	Wire Jumper.	3198 036 90010
6408	Diode, Signal, BAS316.	3198 010 10630	9434	Wire Jumper.	3198 036 90010
6409	Diode, Rect, BYV95A.	9335 000 90133	9471	Wire Jumper.	3198 036 90010
6410	Diode, Rect, BYV95A.	9335 000 90133	9500	Wire Jumper.	3198 036 90010
6413	Diode, Signal, 1N4148.	3198 010 10010	9501	Wire Jumper.	3198 036 90010
6414	Zener Diode, 6.2 volt.	9331 668 30133	9504	Wire Jumper.	3198 036 90010
6415	Diode, Signal, BAS316.	3198 010 10630	9505	Wire Jumper.	3198 036 90010
6419	Zener Diode, 5.6 volt.	9331 177 30133	9506	Wire Jumper.	3198 036 90010
6420	Zener Diode, 9.1 volt.	9331 177 80133	9507	Wire Jumper.	3198 036 90010
6423	Diode, Rect, BYV95A.	9335 000 90133	9508	Wire Jumper.	3198 036 90010
6471	Diode, Rect, BYV95A.	9335 000 90133	9509	Wire Jumper.	3198 036 90010
6500	Diode, Rect, 1N5062.	3198 010 10120	9510	Wire Jumper.	3198 036 90010
6501	Diode, Rect, 1N5062.	3198 010 10120	9511	Wire Jumper.	3198 036 90010
6502	Diode, Rect, 1N5062.	3198 010 10120	9512	Wire Jumper.	3198 036 90010
6503	Diode, Rect, 1N5062.	3198 010 10120	9513	Wire Jumper.	3198 036 90010
6520	Diode, Rect, BYV95A.	9335 000 90133	9514	Wire Jumper.	3198 036 90010
6523	Diode, Signal, 1N4148.	3198 010 10010	9517	Wire Jumper.	3198 036 90010
6540	Zener Diode, 6.2 volt.	9331 668 30133	9520	Wire Jumper.	3198 036 90010
6541	Zener Diode, 9.1 volt.	9331 177 80133	9521	Wire Jumper.	3198 036 90010
6560	Diode, Rect, BYW76-RAS15/10.	9322 187 13682	9522	Wire Jumper.	3198 036 90010
6561	Diode, Rect, BYW76-RAS15/10.	9322 187 13682	9523	Wire Jumper.	3198 036 90010
6562	Diode, Rect, EGP20DL-5100.	9322 164 42682	9524	Wire Jumper.	3198 036 90010
6563	Diode, Signal, BAS316.	3198 010 10630	9611	Wire Jumper.	3198 036 90010
6565	Diode, Signal, BAV70	9331 849 10215	9612	Wire Jumper.	3198 036 90010
6580	Diode, Signal, BAS316.	3198 010 10630	9613	Wire Jumper.	3198 036 90010
6681	Diode, Signal, BAT85	9336 247 60133	9614	Wire Jumper.	3198 036 90010
6691	LED, LTL-10234WHCR	9322 185 69682	9615	Wire Jumper.	3198 036 90010
6692	IR Receiver, TSOP1836UH1	9322 127 54667	9616	Wire Jumper.	3198 036 90010
6901	Res, Zero ohm, "Chip" Jumper	3198 021 90020	9617	Wire Jumper.	3198 036 90010
7200	IC, TDA9587H/N1/3.	9352 693 08557	9619	Wire Jumper.	3198 036 90010
7200	IC, TDA9587H/N1/3/0637	4835 310 57619	9620	Wire Jumper.	3198 036 90010
7201	Transistor, NPN, BC847B(COL)	3198 010 42030	9621	Wire Jumper.	3198 036 90010
7204	Transistor, PNP, BC857B(COL)	3198 010 42150	9622	Wire Jumper.	3198 036 90010
7241	Transistor, PNP, PDMC143ET	3198 010 44010	9623	Wire Jumper.	3198 036 90010
7311	Transistor, NPN, BF422(COL)	3198 020 43010	9624	Wire Jumper.	3198 036 90010
7312	Transistor, NPN, BF422(COL)	3198 020 43010	9625	Wire Jumper.	3198 036 90010
7313	Transistor, PNP, BF423(COL)	3198 020 43020	9626	Wire Jumper.	3198 036 90010
7321	Transistor, NPN, BF422(COL)	3198 020 43010	9627	Wire Jumper.	3198 036 90010
7322	Transistor, NPN, BF422(COL)	3198 020 43010	9628	Wire Jumper.	3198 036 90010
7323	Transistor, PNP, BF423(COL)	3198 020 43020	9629	Wire Jumper.	3198 036 90010
7331	Transistor, NPN, BF422(COL)	3198 020 43010	9630	Wire Jumper.	3198 036 90010
7332	Transistor, NPN, BF422(COL)	3198 020 43010	9631	Wire Jumper.	3198 036 90010
7333	Transistor, PNP, BF423(COL)	3198 020 43020	9632	Wire Jumper.	3198 036 90010
7401	Transistor, NPN, PDMC143ZT	9340 547 00215	9633	Wire Jumper.	3198 036 90010
7402	Transistor, NPN, BUT11APX.	9340 563 21127	9634	Wire Jumper.	3198 036 90010
7403	Transistor, NPN, BC337-25(COL)	3198 020 43530	9637	Wire Jumper.	3198 036 90010
7404	Transistor, PNP, BC327-25(COL)	3198 020 43430	9638	Wire Jumper.	3198 036 90010
7405	Transistor, PNP, BC857B(COL)	3198 010 42150	9639	Wire Jumper.	3198 036 90010
7406	Transistor, PNP, BC857B(COL)	3198 010 42150	9640	Wire Jumper.	3198 036 90010
7407	Transistor, NPN, BD135	3198 020 41010	9641	Wire Jumper.	3198 036 90010
7408	Transistor, NPN, BD135	3198 020 41010	9642	Wire Jumper.	3198 036 90010
7409	Transistor, PNP, BC857B(COL)	3198 010 42150	9643	Wire Jumper.	3198 036 90010
7471	IC, TDA9302H	9322 088 25682	9644	Wire Jumper.	3198 036 90010
S 7515	Optical Coupler, TCET1103(G)	9322 175 72667	9645	Wire Jumper.	3198 036 90010
7520	IC, TEA1507P/N1.	9352 673 56112	9648	Wire Jumper.	3198 036 90010
S 7521	Power FET, STP5NC50FP.	9322 160 71687	9650	Wire Jumper.	3198 036 90010

S = Safety Part Be sure to use exact replacement part.

9653	Bead Inductor, 100 MHz, 80 ohm	3198	018	90020	CBA	Healthcare Module.	3139	187	18071
9654	Wire Jumper.	3198	036	90010					
9657	Wire Jumper.	3198	036	90010					
9658	Wire Jumper.	3198	036	90010					
9659	Wire Jumper.	3198	036	90010					
9660	Wire Jumper.	3198	036	90010					
9661	Wire Jumper.	3198	036	90010					
9662	Wire Jumper.	3198	036	90010					
9663	Wire Jumper.	3198	036	90010					
9664	Wire Jumper.	3198	036	90010					
9665	Wire Jumper.	3198	036	90010					
9666	Wire Jumper.	3198	036	90010					
9668	Wire Jumper.	3198	036	90010					
9669	Wire Jumper.	3198	036	90010					
9670	Wire Jumper.	3198	036	90010					
9672	Wire Jumper.	3198	036	90010					
9673	Wire Jumper.	3198	036	90010					
9674	Wire Jumper.	3198	036	90010					
9675	Wire Jumper.	3198	036	90010					
9676	Wire Jumper.	3198	036	90010					
9678	Wire Jumper.	3198	036	90010					
9679	Wire Jumper.	3198	036	90010					
9680	Wire Jumper.	3198	036	90010					
9682	Wire Jumper.	3198	036	90010					
9683	Wire Jumper.	3198	036	90010					
9684	Wire Jumper.	3198	036	90010					
9686	Wire Jumper.	3198	036	90010					
9687	Wire Jumper.	3198	036	90010					
9688	Wire Jumper.	3198	036	90010					
9689	Wire Jumper.	3198	036	90010					
9690	Wire Jumper.	3198	036	90010					
9691	Wire Jumper.	3198	036	90010					
9692	Wire Jumper.	3198	036	90010					
9693	Wire Jumper.	3198	036	90010					
9695	Wire Jumper.	3198	036	90010					
9697	Wire Jumper.	3198	036	90010					
9698	Wire Jumper.	3198	036	90010					
9699	Wire Jumper.	3198	036	90010					
9811	Wire Jumper.	3198	036	90010					
9812	Wire Jumper.	3198	036	90010					
9813	Wire Jumper.	3198	036	90010					
9814	Wire Jumper.	3198	036	90010					
9815	Wire Jumper.	3198	036	90010					
9816	Wire Jumper.	3198	036	90010					
9817	Wire Jumper.	3198	036	90010					
9818	Wire Jumper.	3198	036	90010					
9820	Wire Jumper.	3198	036	90010					
9821	Wire Jumper.	3198	036	90010					
9822	Wire Jumper.	3198	036	90010					
9824	Wire Jumper.	3198	036	90010					
9825	Wire Jumper.	3198	036	90010					
9826	Wire Jumper.	3198	036	90010					
9827	Wire Jumper.	3198	036	90010					
9828	Wire Jumper.	3198	036	90010					
9829	Wire Jumper.	3198	036	90010					
9830	Wire Jumper.	3198	036	90010					
9832	Wire Jumper.	3198	036	90010					
9901	Wire Jumper.	3198	036	90010					
9902	Wire Jumper.	3198	036	90010					
9911	Wire Jumper.	3198	036	90010					
9912	Wire Jumper.	3198	036	90010					
9915	Wire Jumper.	3198	036	90010					
9916	Wire Jumper.	3198	036	90010					
9917	Wire Jumper.	3198	036	90010					
9921	Wire Jumper.	3198	036	90010					
9991	Wire Jumper.	3198	036	90010					
9993	Wire Jumper.	3198	036	90010					
9994	Wire Jumper.	3198	036	90010					
9996	Wire Jumper.	3198	036	90010					
9997	Wire Jumper.	3198	036	90010					
9998	Wire Jumper.	3198	036	90010					

Cabinet Parts

Cabinet Parts									
S AC01	AC Cord.	3135	010	06201					
AC03	Cabinet Back	3139	124	45191					
S AC08	CRT, A48EAK02X110.	9301	885	00361					
AC09	Customer Control Buttons	3139	124	27442					
S AC10	Degaussing Coil.	2422	549	44428					
AC11	Degaussing Coil Holder (4 Used).	3135	013	01641					
AC12	Owner's Manual	3135	125	21431					
AC17	Cabinet Front Assembly	3121	237	52531					
AC17A	Cabinet Front.	3135	017	04081					
AC17B	Power Button	3139	124	27602					
AC17C	Light Guide.	3139	124	27451					
AC17E	Chassis Guide, Left.	3135	014	00681					
AC17F	Chassis Guide, Right	3135	014	00691					
AC17G	Nameplate.	3135	015	03551					
AC17I	Power Button Bracket	3135	121	20061					
AC17J	Speaker, 16 ohm, 4W, Full Range.	2422	264	00399					
S AC16	Deflection Yoke, AT6036/K10.	3306	133	24791					

Healthcare Module

S = Safety Part. Be sure to use exact replacement part.

Technical Service Data

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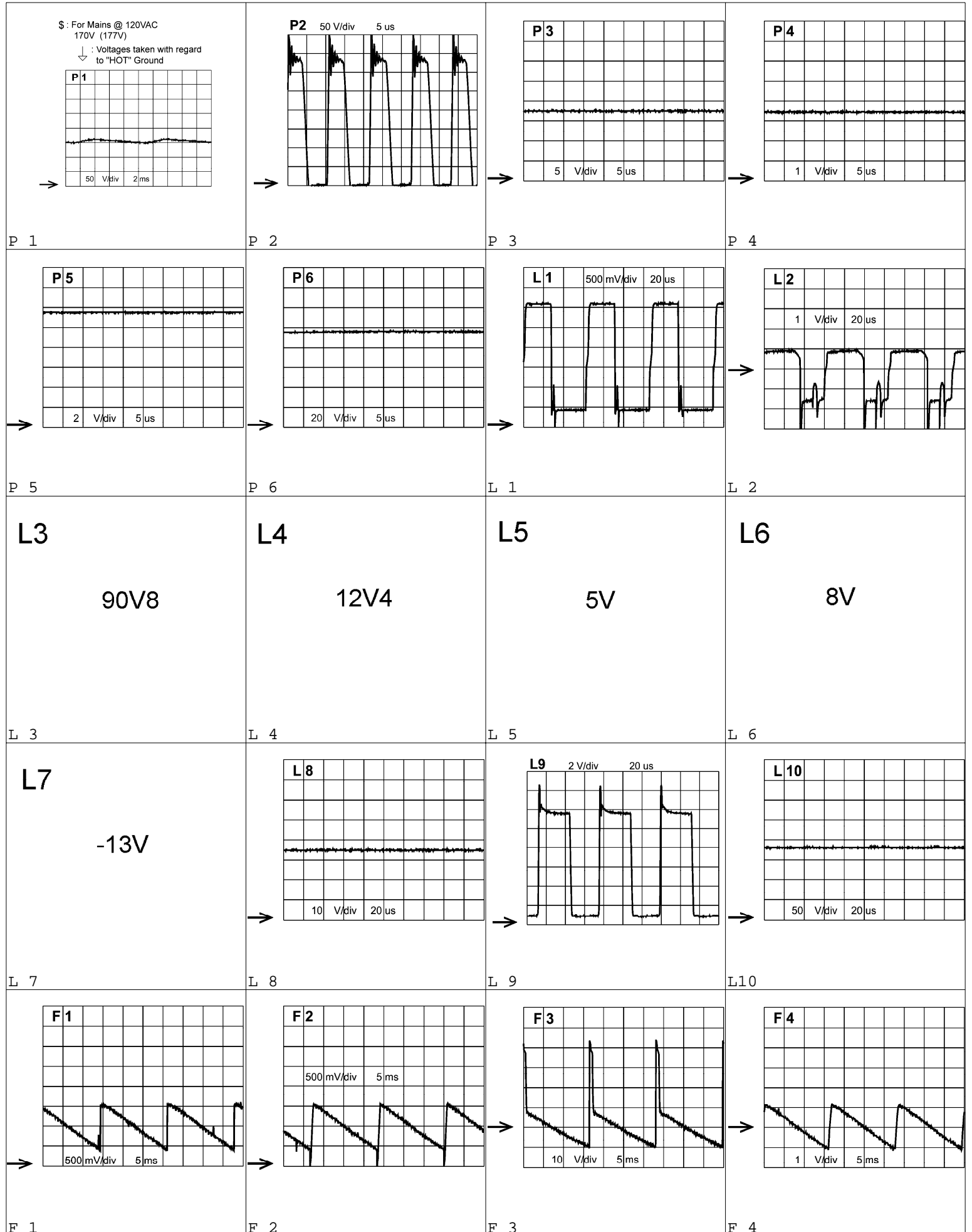
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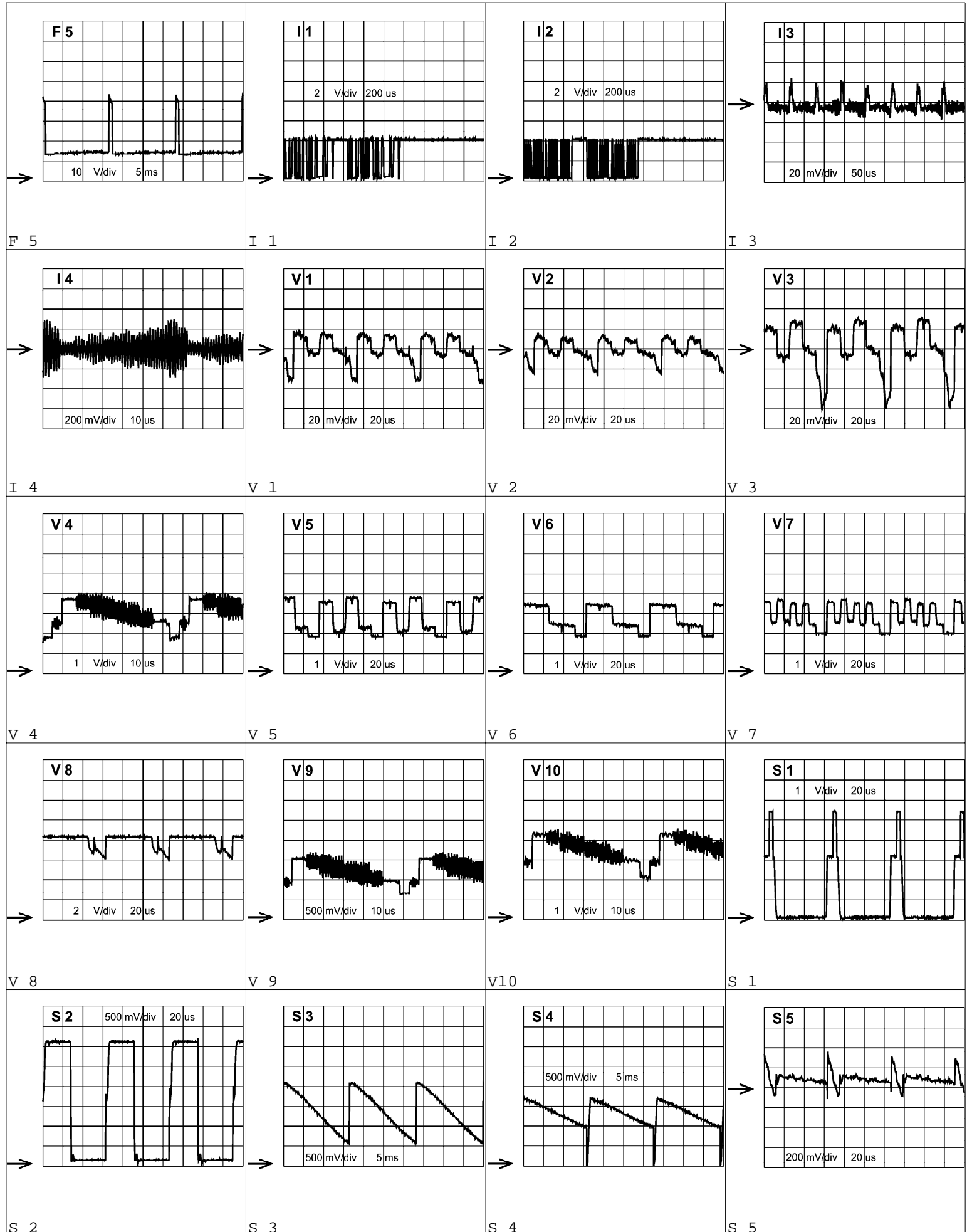
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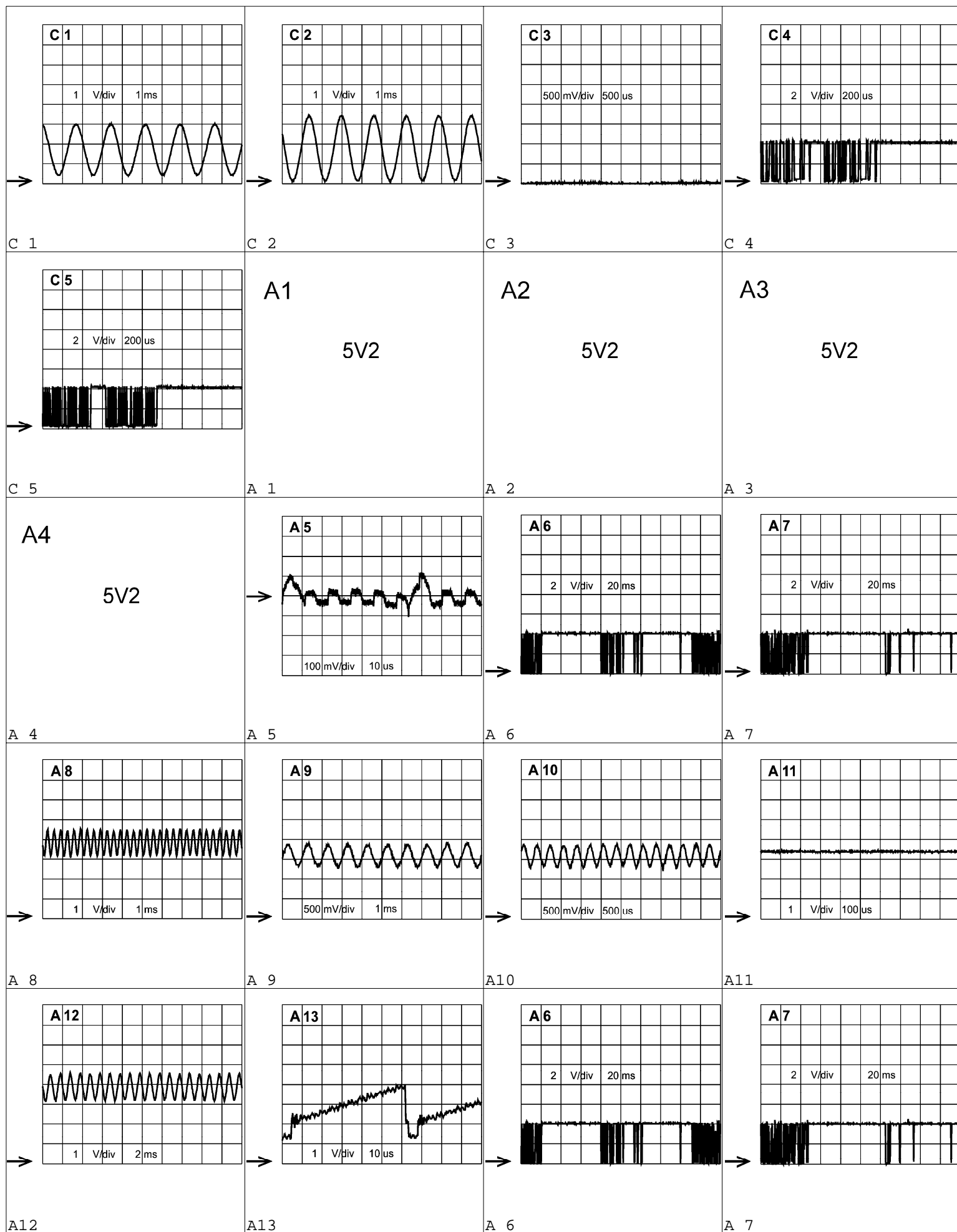
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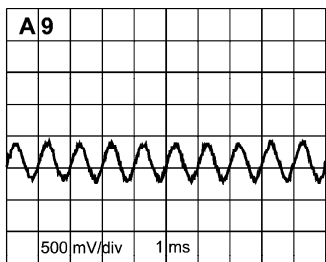
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CAUTION: USE A SEPARATE ISOLATION TRANSFORMER FOR THIS UNIT WHEN SERVICING



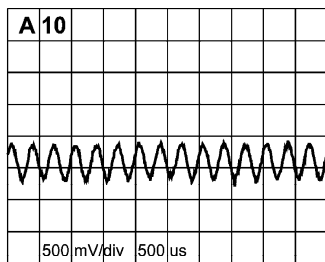






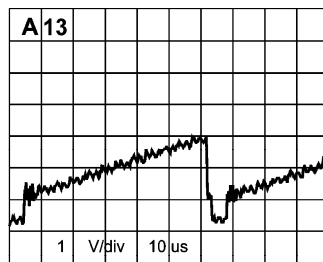
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A 9



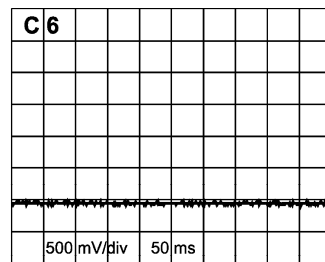
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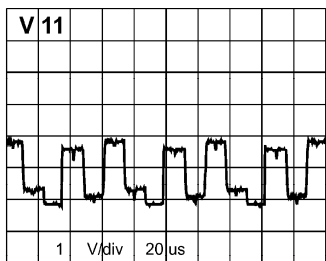
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A13



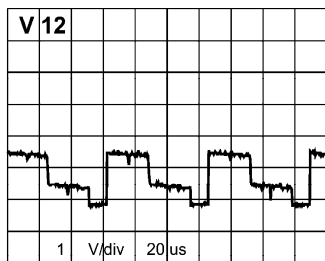
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C 6



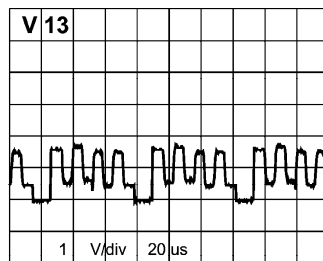
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V11



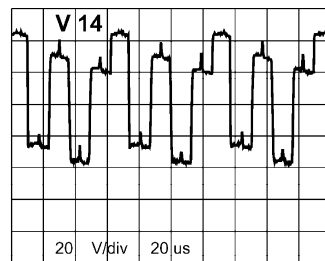
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V12



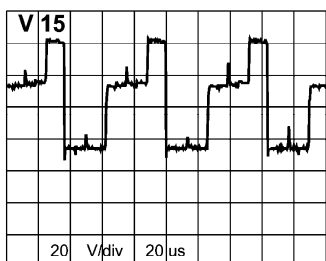
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V13



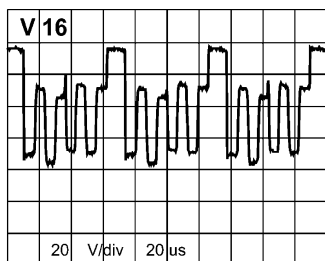
→

V14



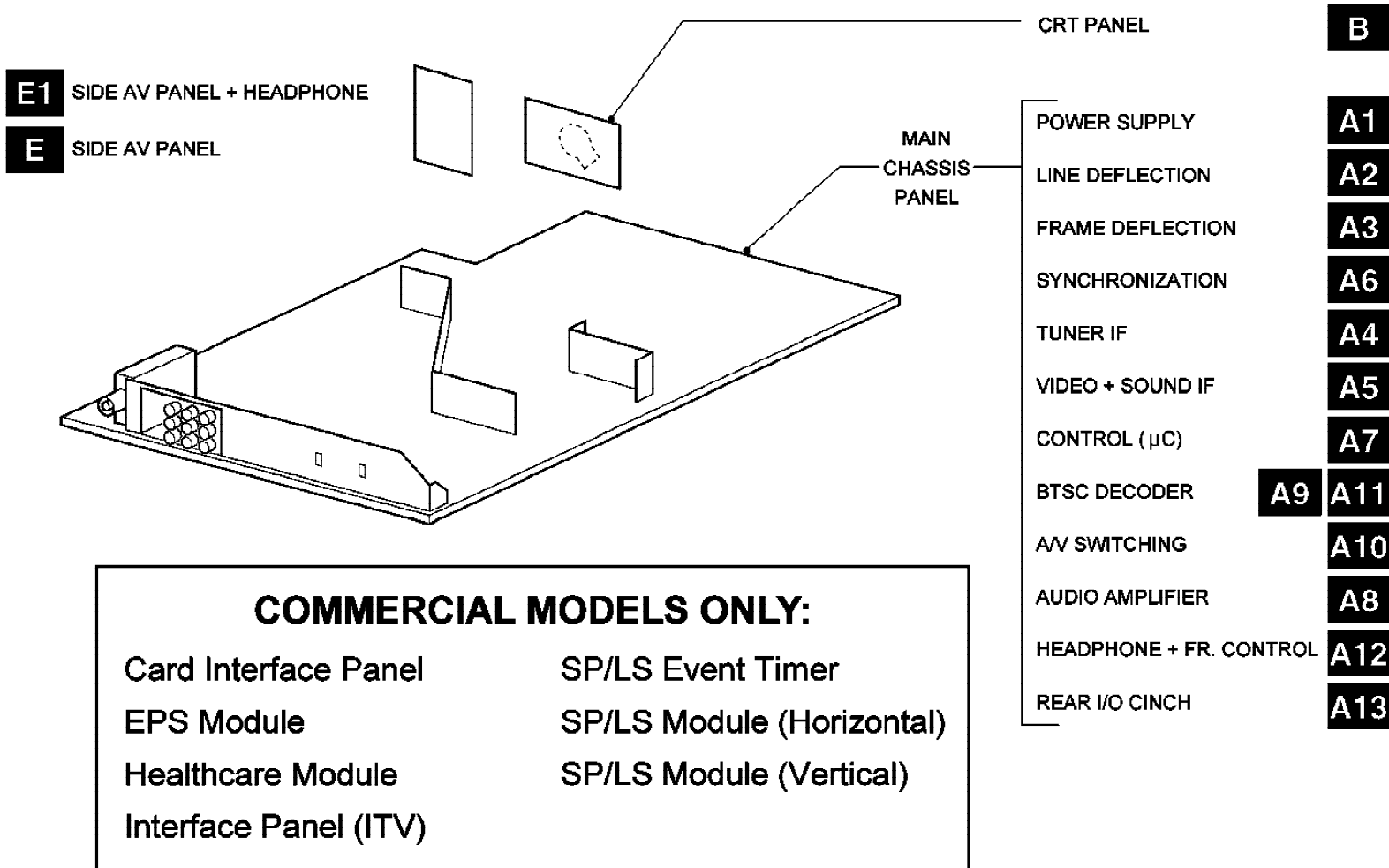
→

V15



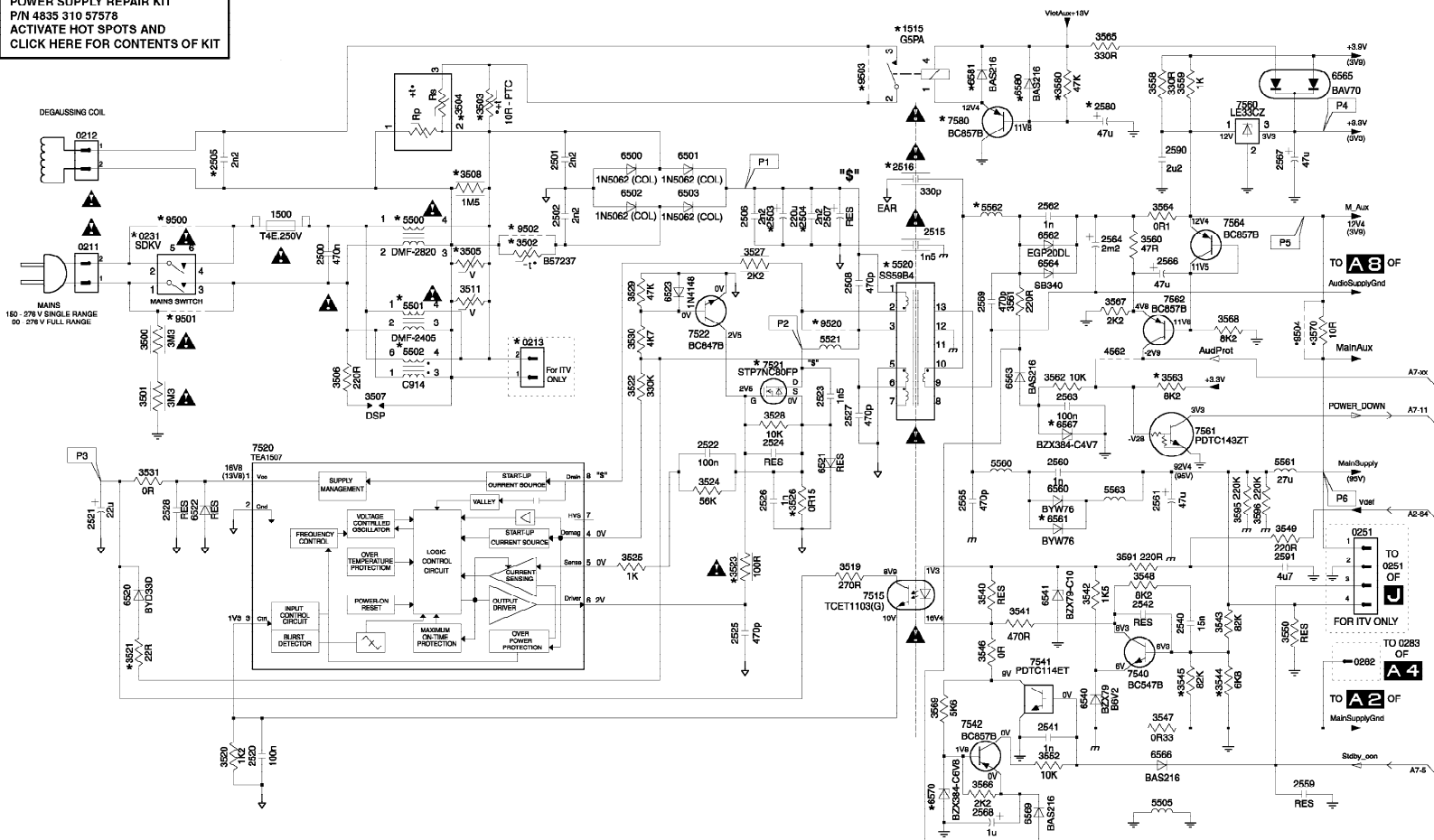
→

V16

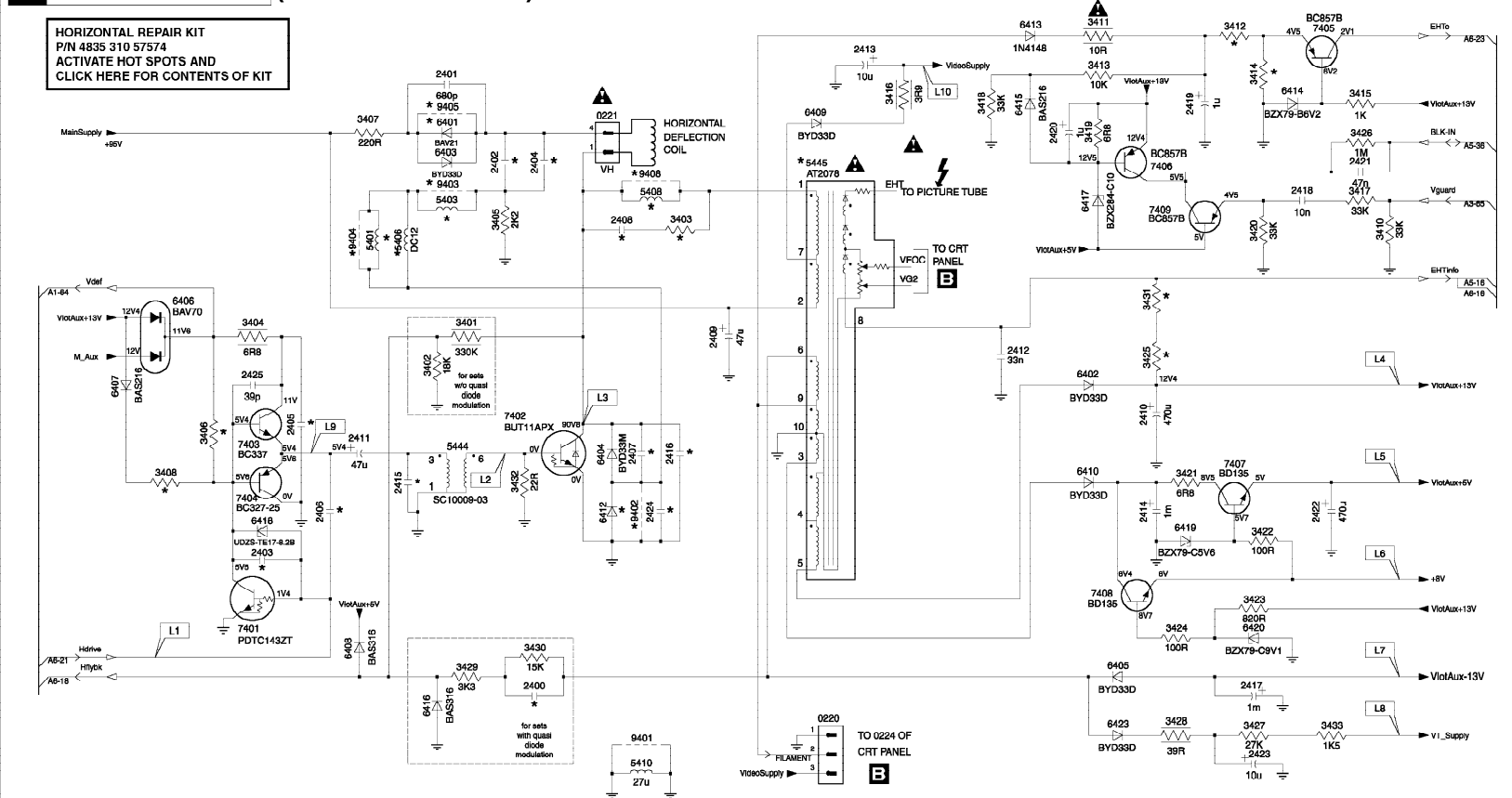


A1 POWER SUPPLY (LATAM / NAFTA / AP)

POWER SUPPLY REPAIR KIT
P/N 4835 310 57578
ACTIVATE HOT SPOTS AND
CLICK HERE FOR CONTENTS OF KIT

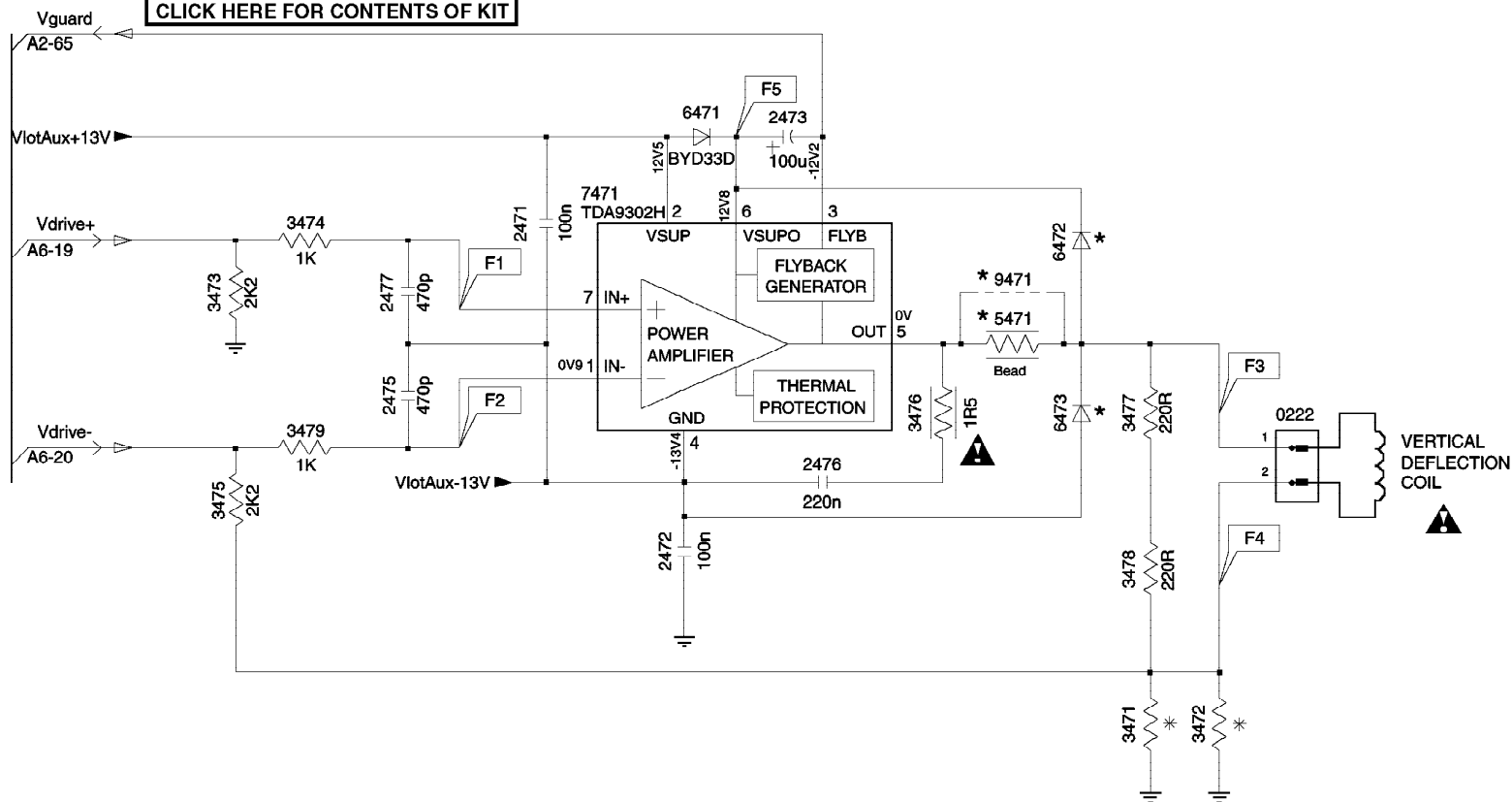


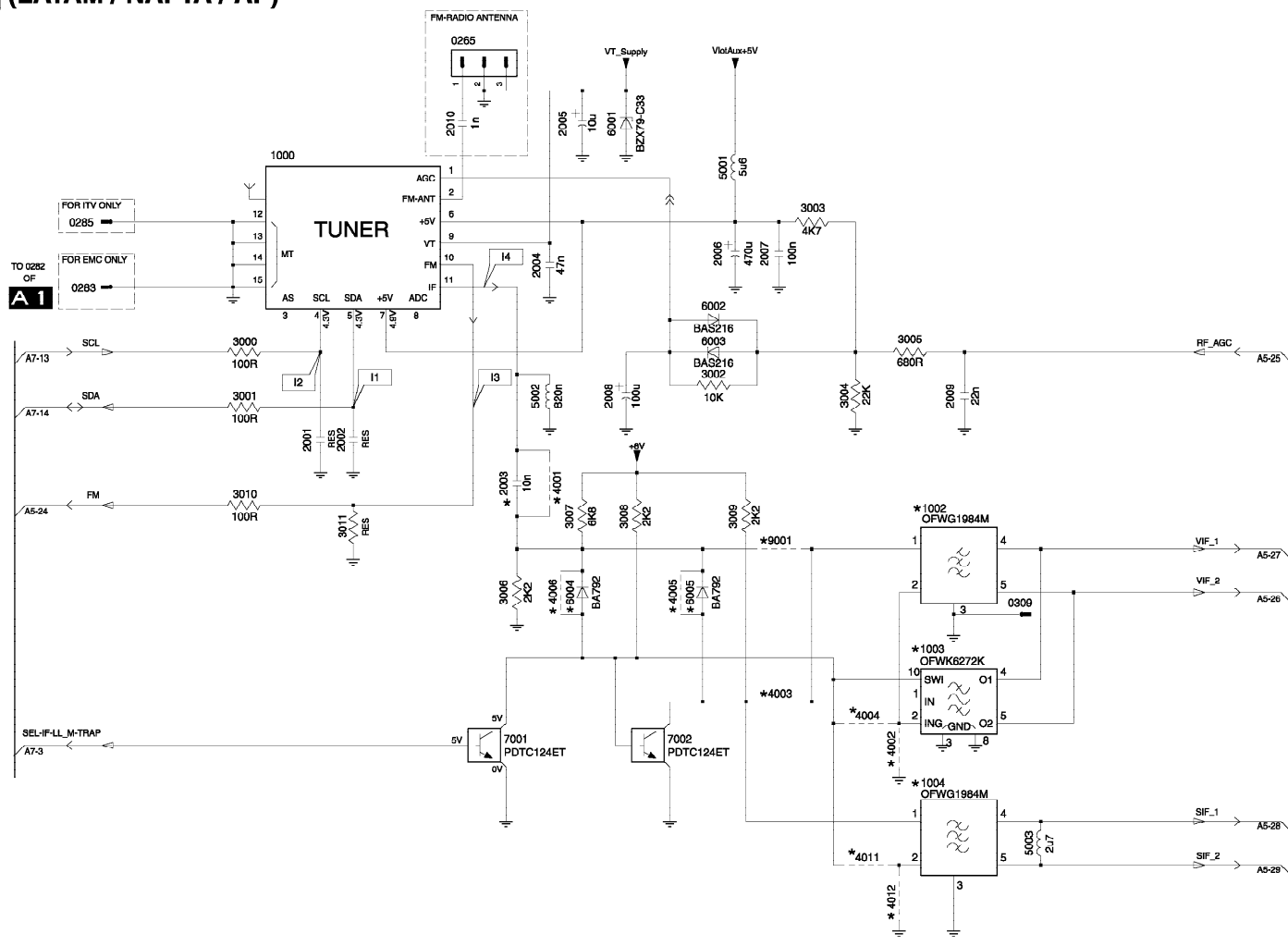
HORIZONTAL REPAIR KIT
P/N 4835 310 57574
ACTIVATE HOT SPOTS AND
CLICK HERE FOR CONTENTS OF KIT

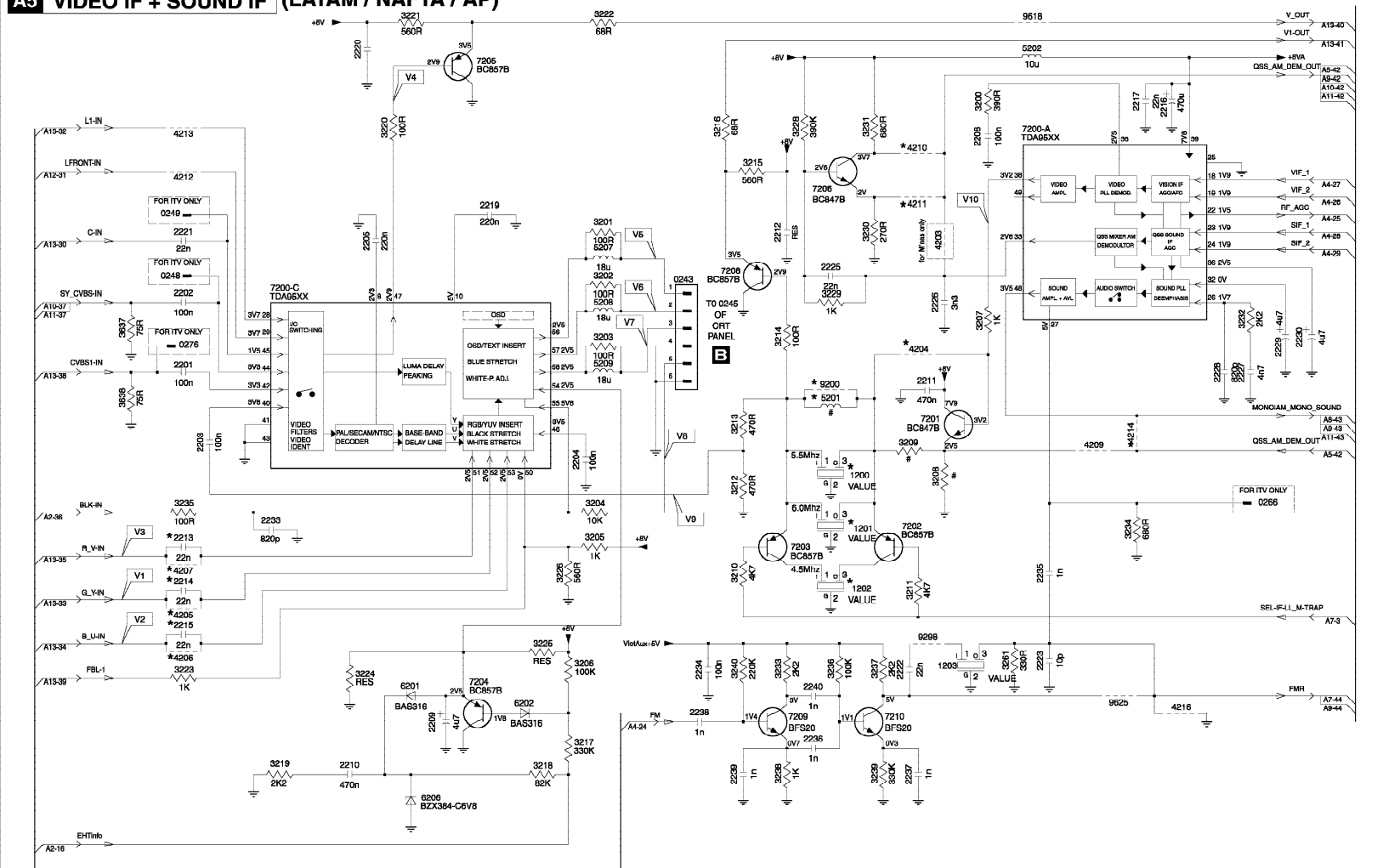


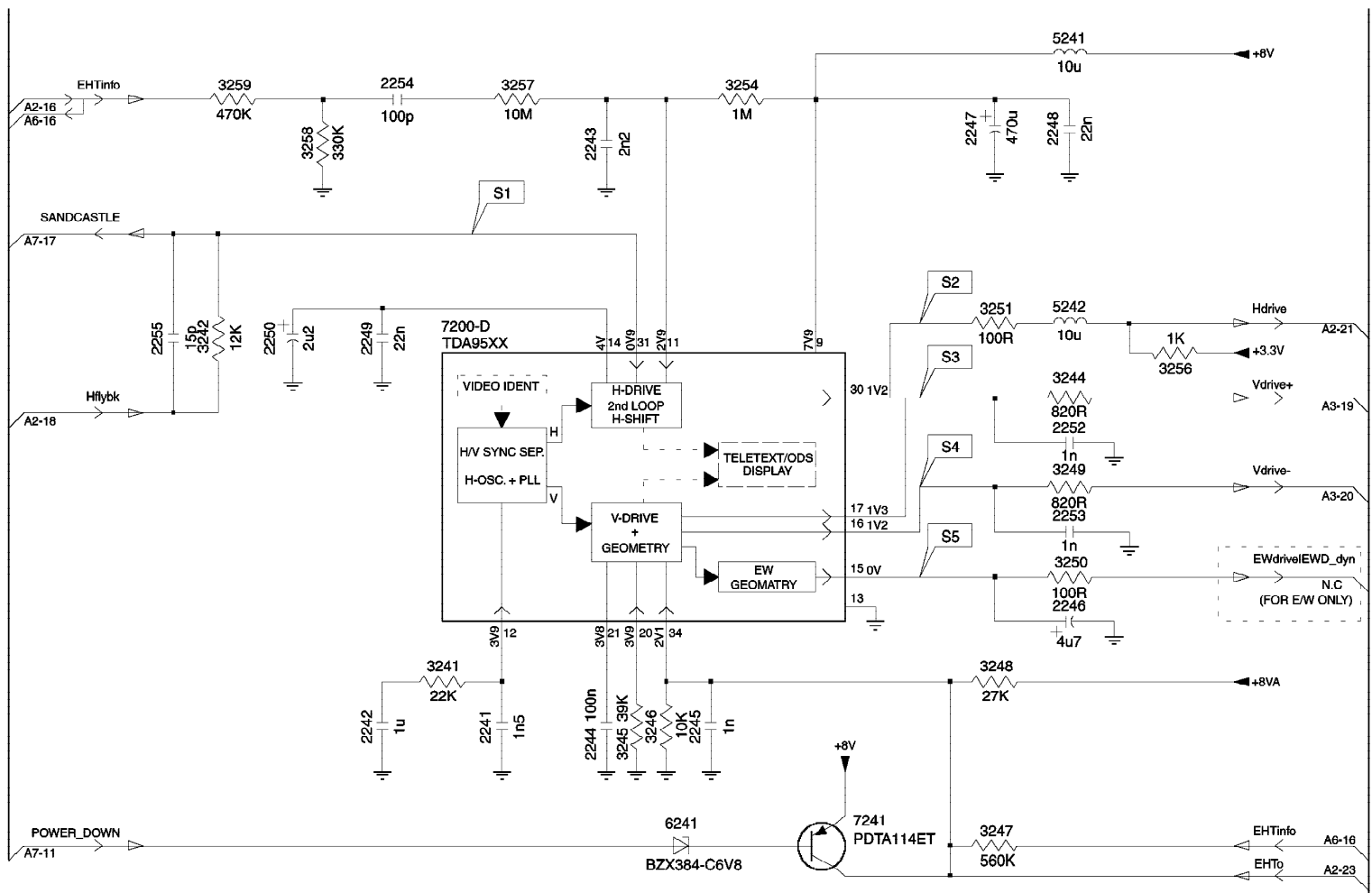
A3 FRAME DEFLECTION (LATAM / NAFTA / AP)

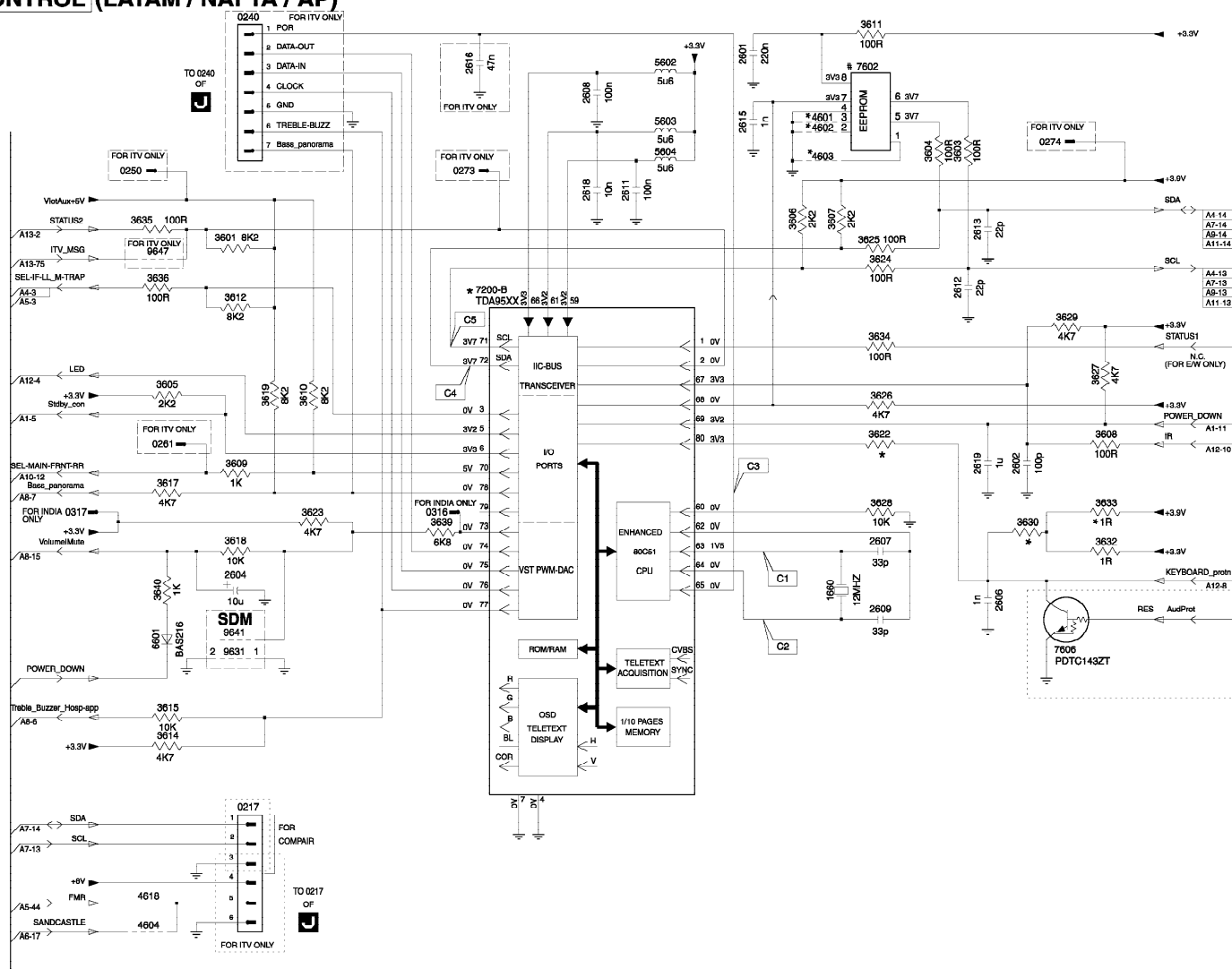
VERTICAL REPAIR KIT
P/N 4835 310 57579
ACTIVATE HOT SPOTS AND
CLICK HERE FOR CONTENTS OF KIT

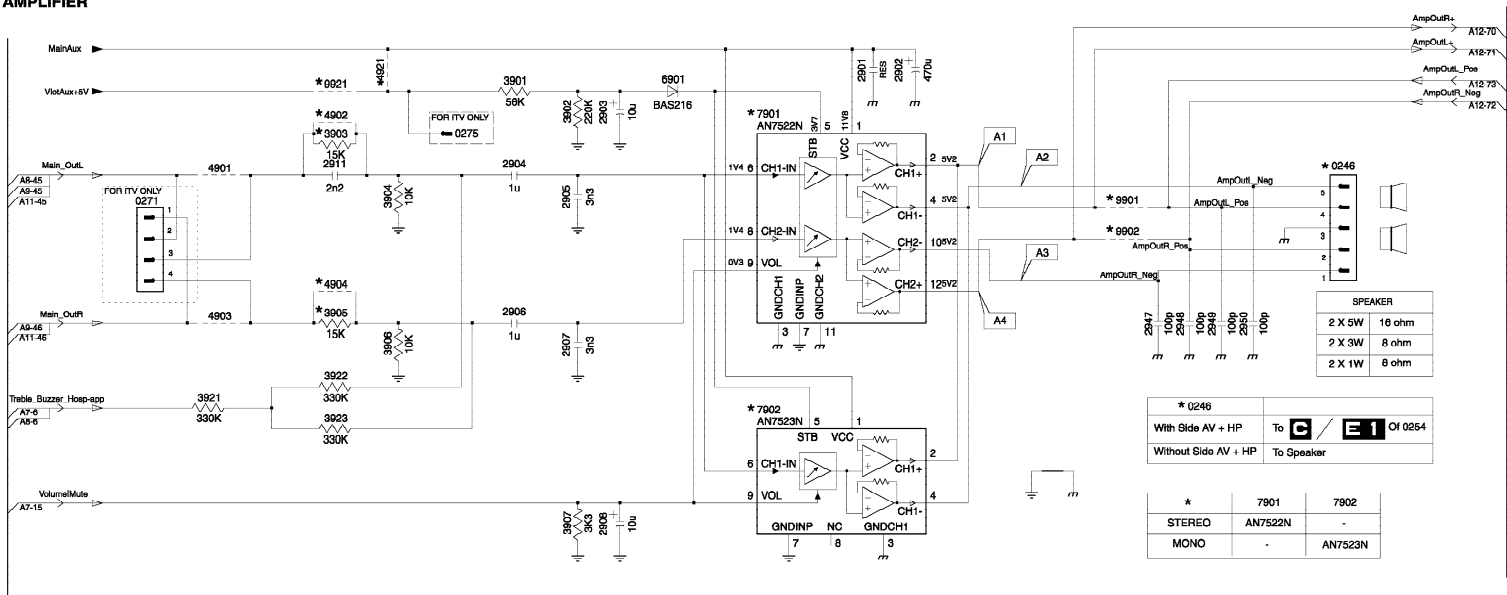
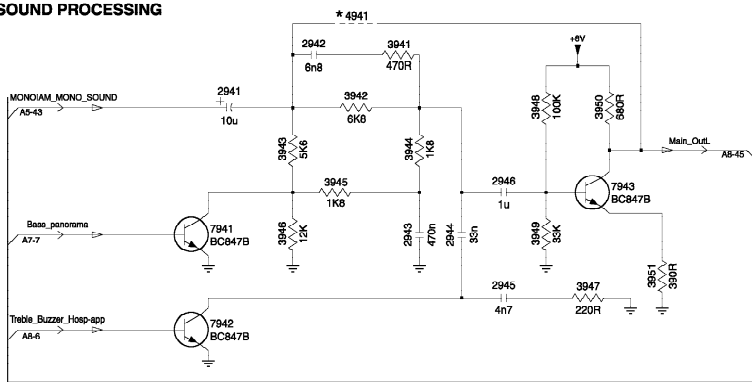


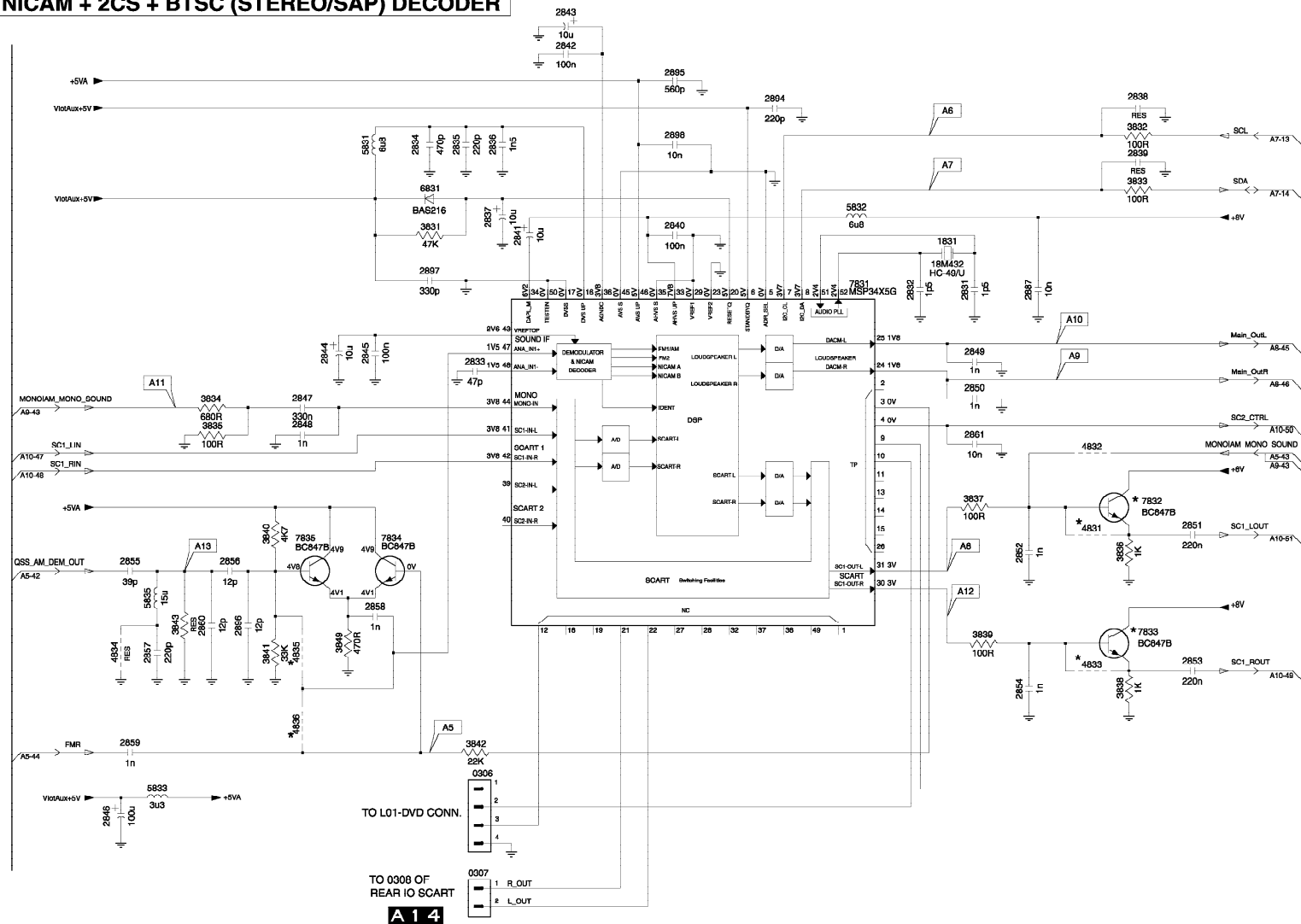


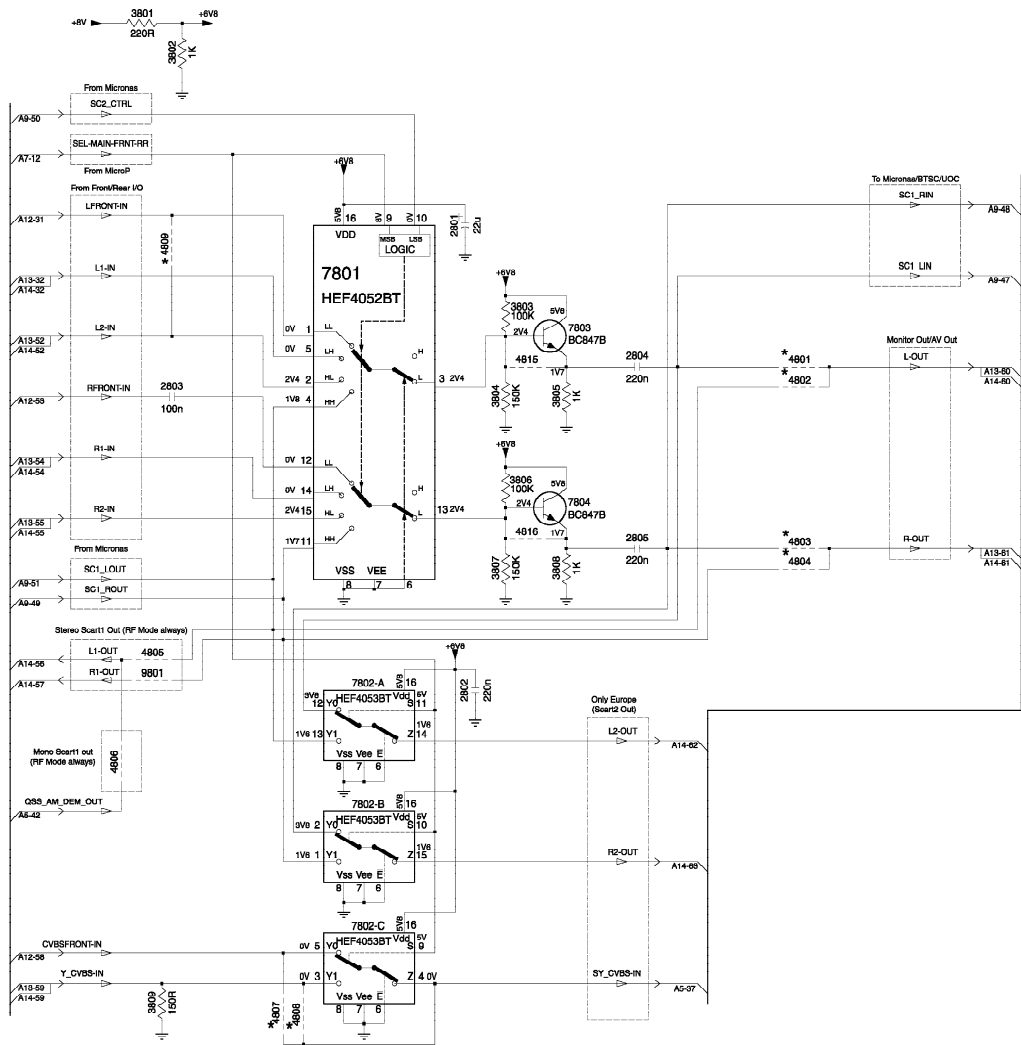
A5 VIDEO IF + SOUND IF (LATAM / NAFTA / AP)

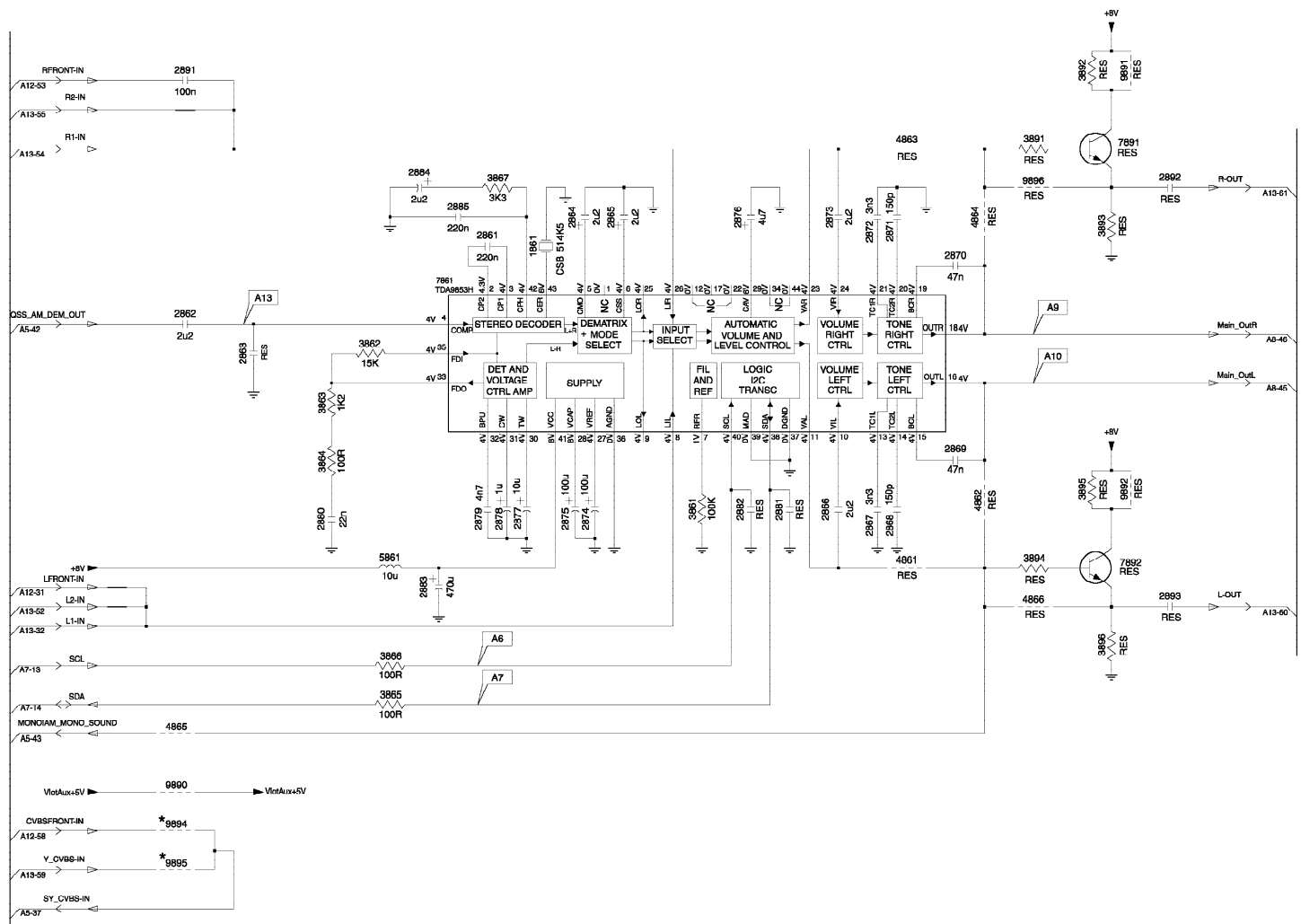
A6 SYNCHRONISATION (LATAM / NAFTA / AP)

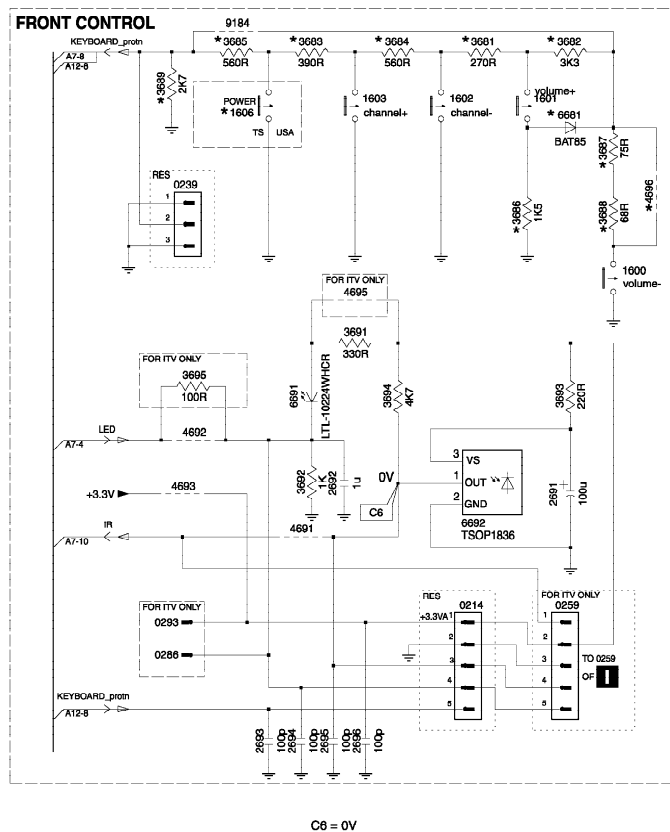
CONTROL (LATAM / NAFTA / AP)

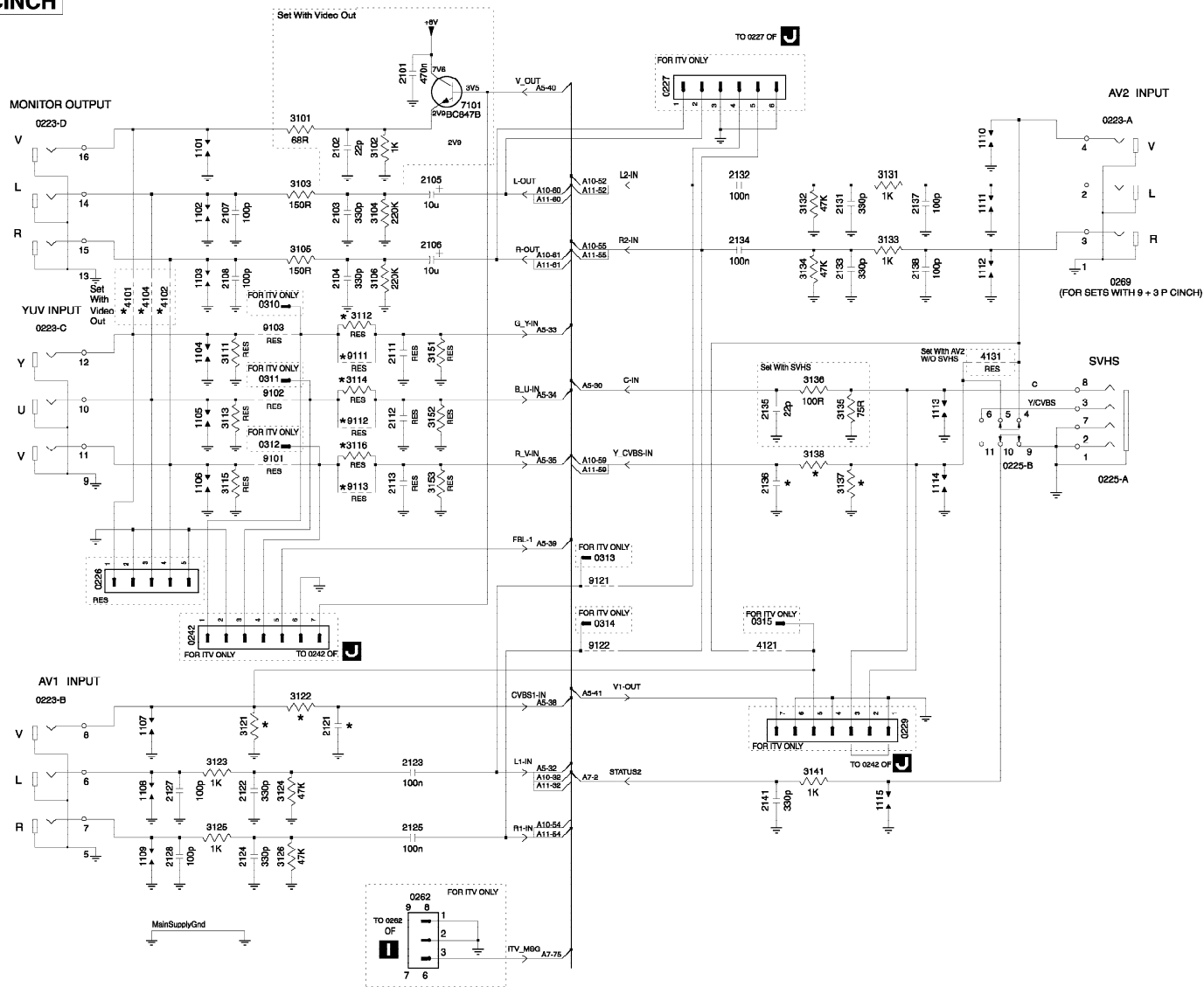
A8 AUDIO_AMPLIFIER + MONO_SOUND_PROCESSING**AUDIO AMPLIFIER****MONO SOUND PROCESSING**

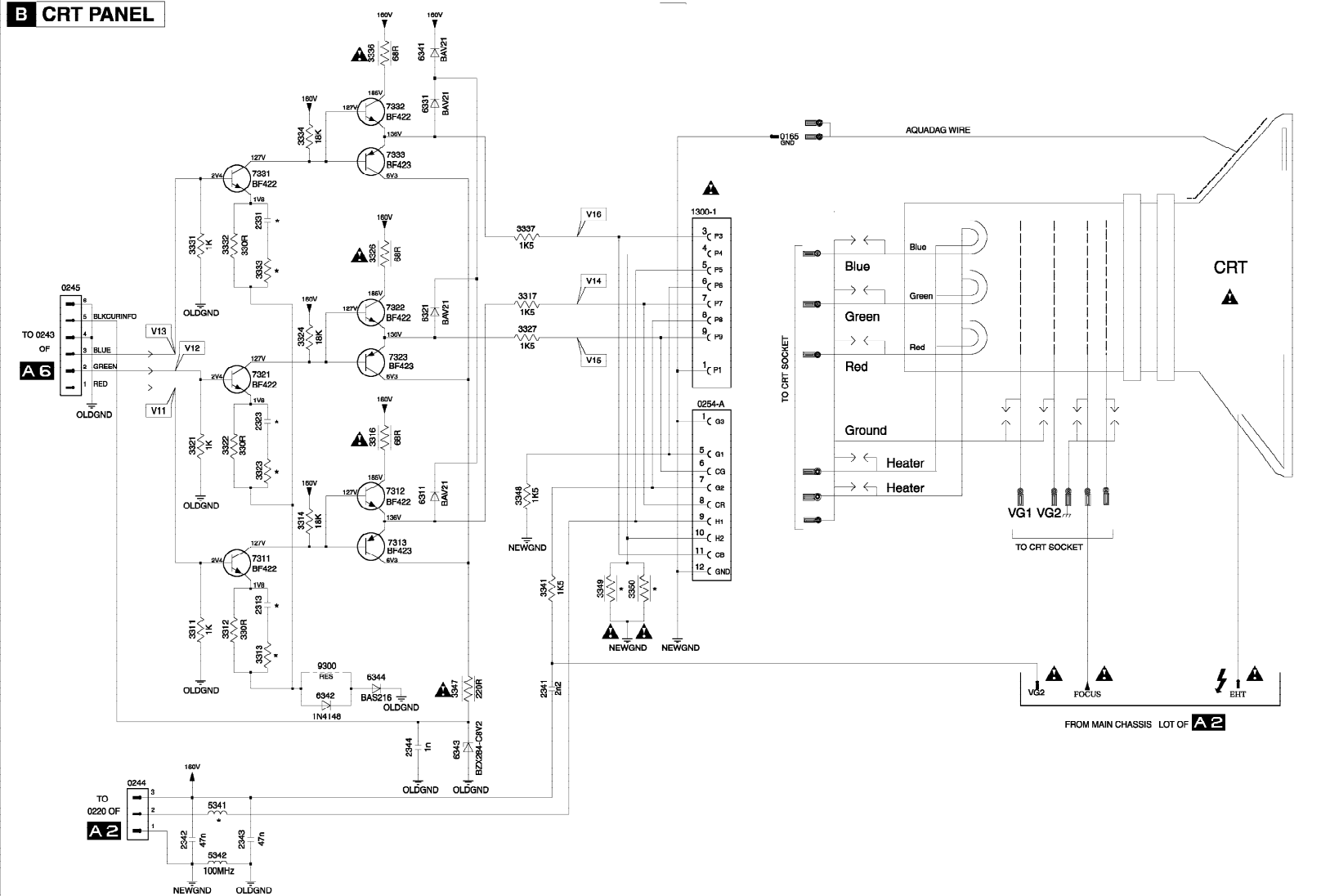
A9 NICAM + 2CS + BTSC (STEREO/SAP) DECODER

A10 AUDIO/VIDEO SOURCE SWITCHING [A10]

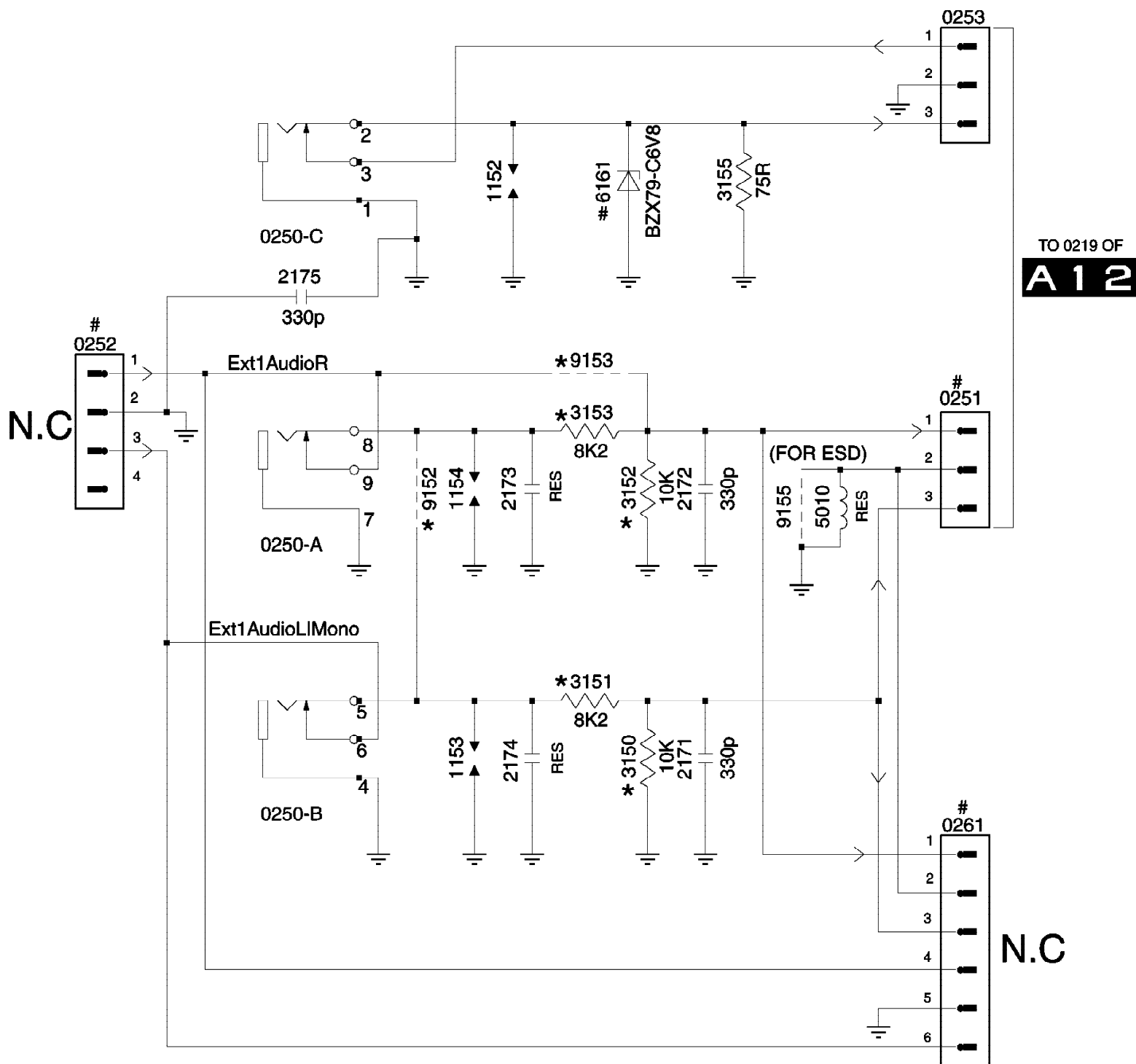
A11 AUDIO - BTSC STEREO DECODER (ECONOMIC)



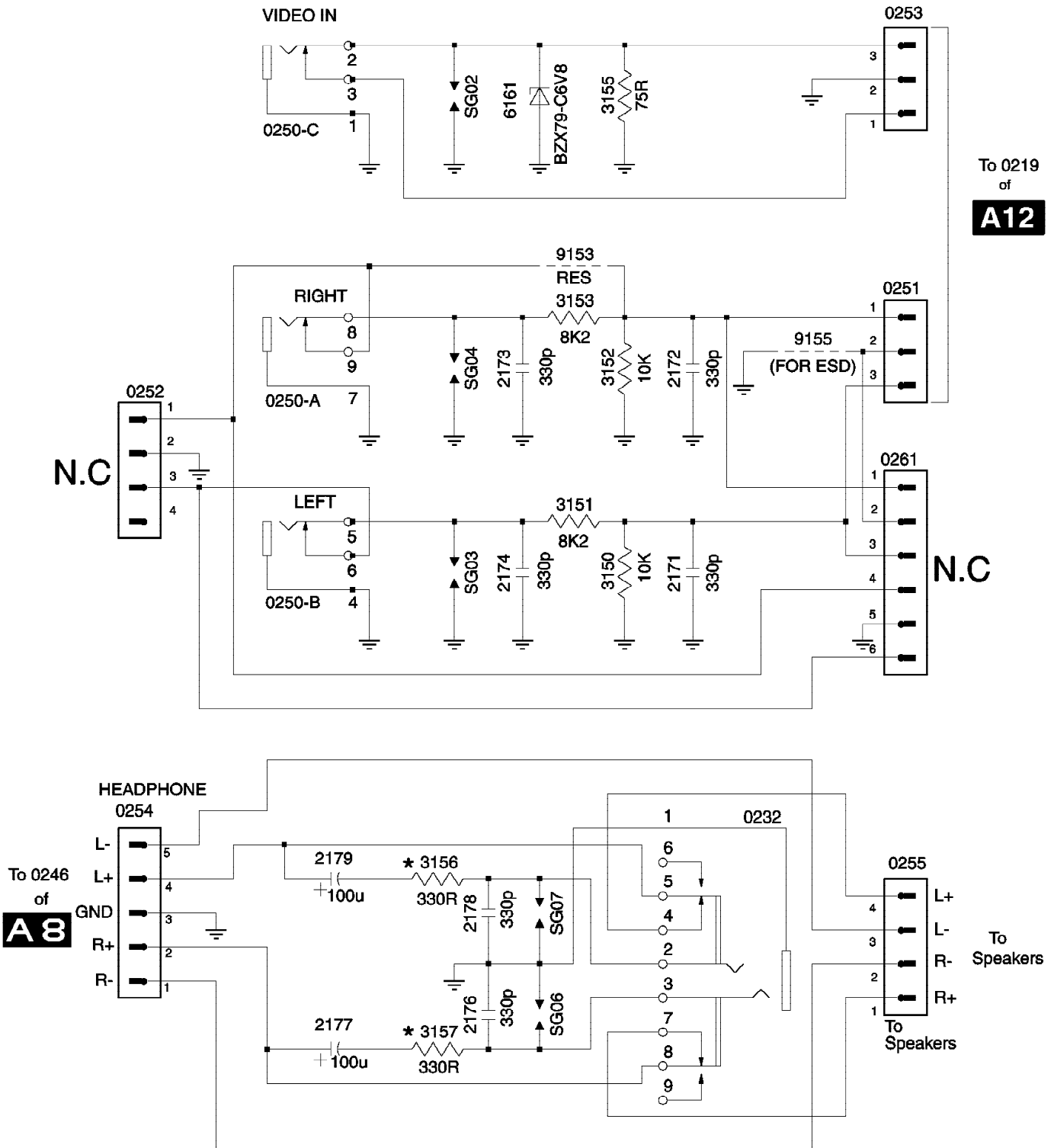
A13 REAR I/O CINCH

B CRT PANEL

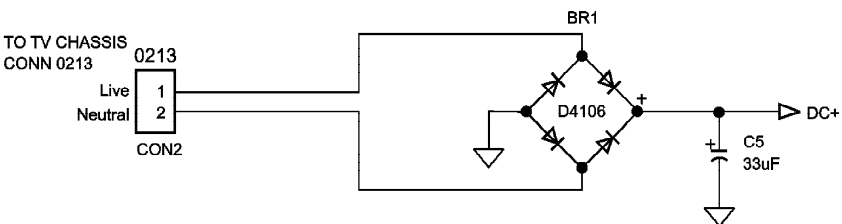
SIDE AV



E 1 SIDE AV PANEL & HEADPHONE

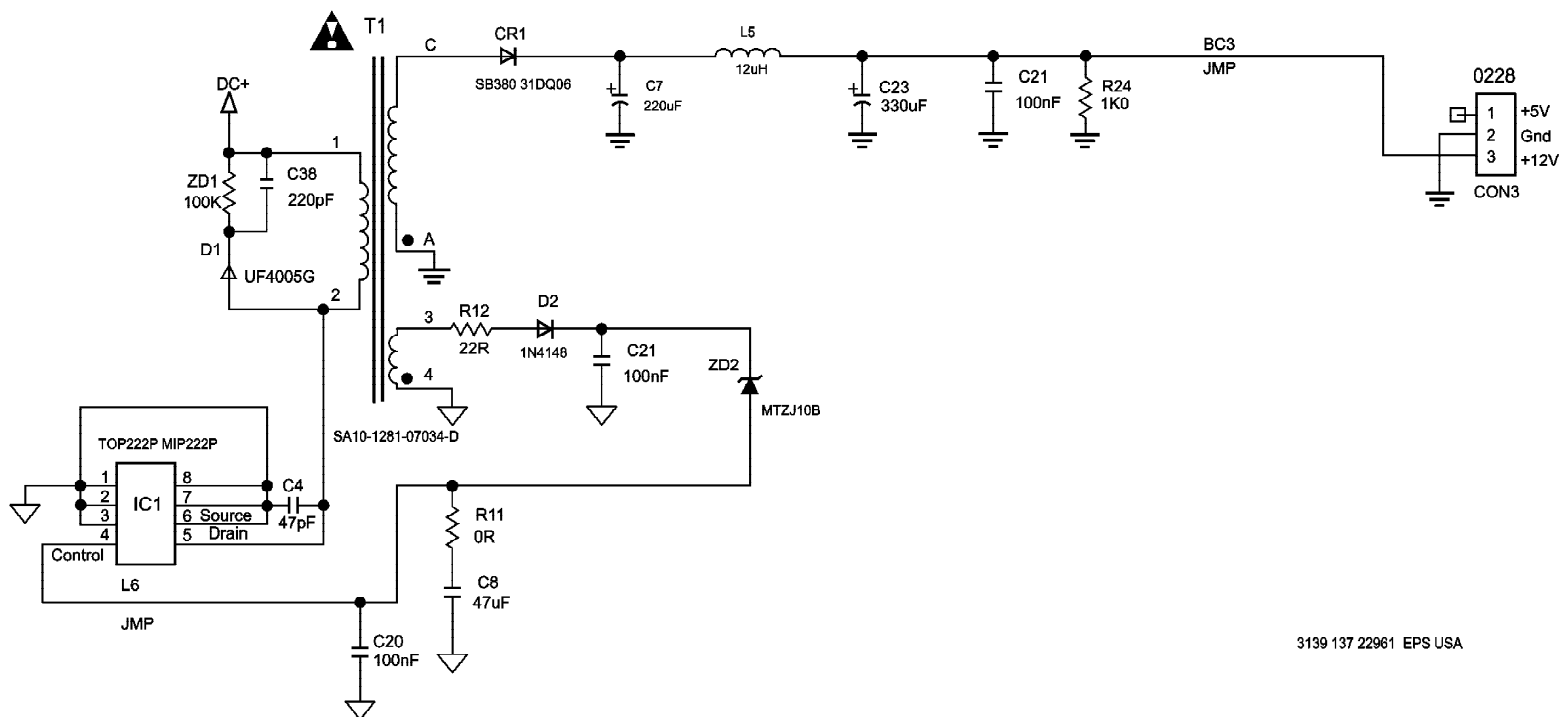


EPS PANEL SCHEMATIC

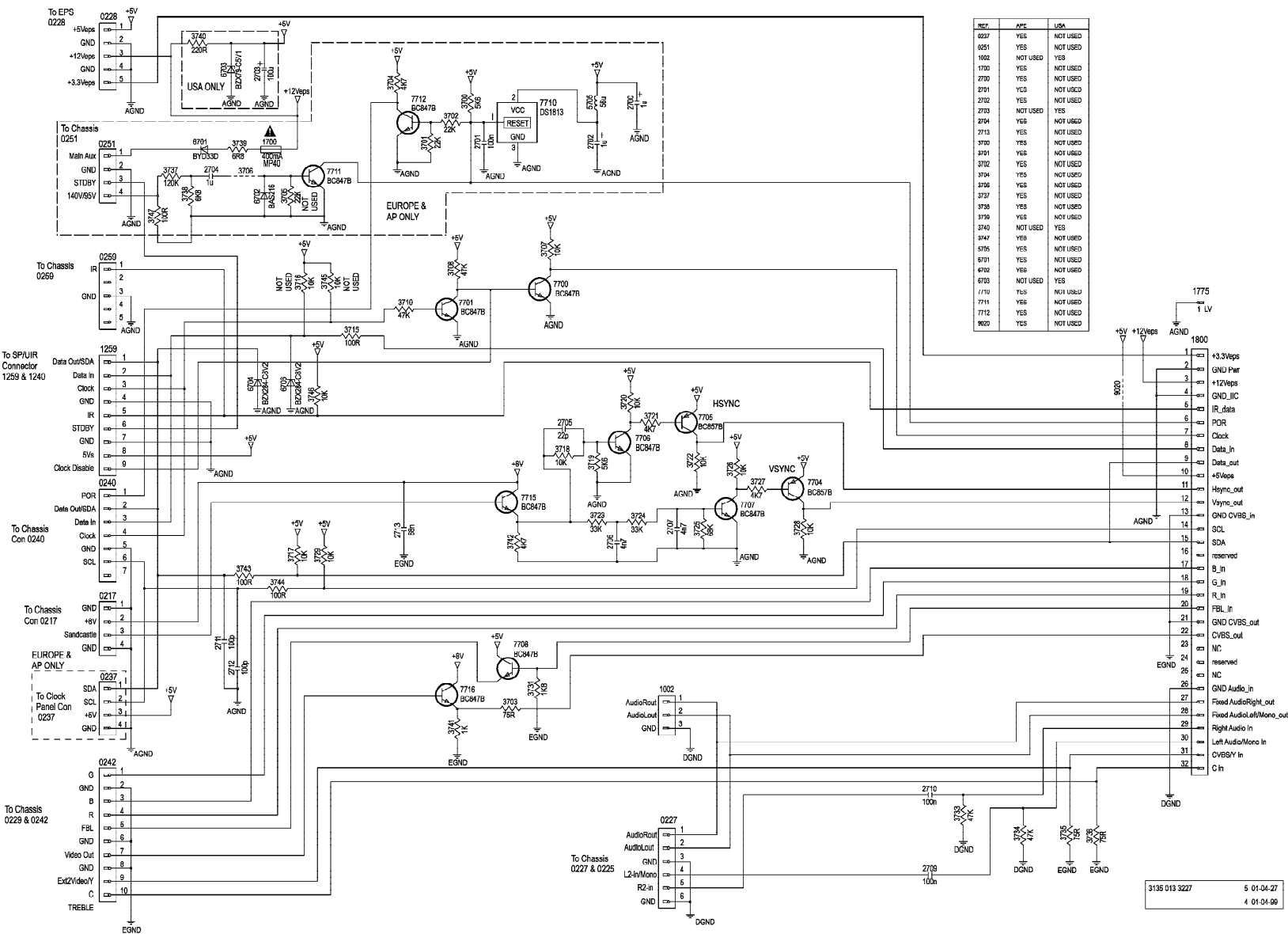


Parts Notice:

No component parts are available for this board assembly.
Replace with the complete board assembly part number.
Type "CBA" (no quote marks), to access board assembly
part numbers.



Card Interface Panel Schematic



3135 013 3227 5 01-04-27 4 01-04-99

I1 SP/LS MODULE (GLOBAL/VERT/HOR)

Parts Notice:

No component parts are available for this board assembly.
Replace with the complete board assembly part number.
Type "CBA" (no quote marks), to access board assembly
part numbers.

