zenith

SERVICE MANUAL

Product Type:	Consumer Color TV
Chassis:	XC
Manual Series:	CM152
Manual Part #:	923-03435
Model Line:	C
Product Year:	2000

Model Series:

C27C35T
C27C35TF
C27C41T
C27C41TF
C32C35T
C32C35TF
C32C41T
C32C41TF
C36C35T
C36C35T8
C36C35TF
C36C41T
C36C41T8
C36C41TF
C32C84R
C32C86R
C36C86R
LGC29C35TM

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XC CCI 2.5k

PRODUCT SAFETY SERVICING GUIDELINES FOR AUDIO-VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-visual service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



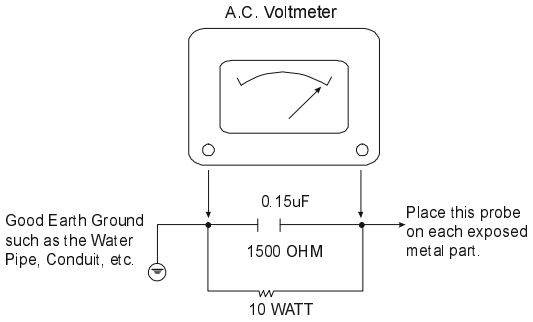
The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, check the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items transported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of x-radiation. The only potential source of x-rays in current TV receivers is the picture tube. However, this tube does not emit x-rays when the HV is at the factory-specified level. The proper value is given in the applicable schematic. Operation at higher voltages may cause a failure of the picture tube or high-voltage supply and, under certain circumstances may produce radiation in excess of desirable levels.
2. Only factory-specified CRT anode connectors must be used.
3. It is essential that the service personnel have available an accurate and reliable high-voltage meter.
4. When the high-voltage circuitry is operating properly, there is no possibility of an x-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter, to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. When troubleshooting and making test measurements in a product with a problem of excessively high voltage, avoid being unnecessarily close to the picture tube and the high voltage power supply. Do not operate the product longer than necessary to locate the cause of excessive voltage.
6. Refer to HV, B+, and shutdown adjustment procedures described in the appropriate schematics and diagrams (where used).

IMPLOSION

1. All direct view picture tubes are equipped with an integral implosion protection system; take care to avoid damage during installation.
2. Use only the recommended factory replacement tubes.

TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using a cart or stand that has not been listed by Underwriters Laboratories, Inc. for use with its specific model of television receiver or generically approved for use with TVs of the same or larger screen size.
8. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

SHUTDOWN CIRCUIT THEORY OF OPERATION

The HV shutdown network feeds the shutdown or X-ray protection input, pin 29, of ICX2200 video processor IC. To perform the shutdown or activate the X-ray protection requires getting 1.0 VDC or more (threshold is 1.0 VDC) on pin 29.

A pulse voltage is derived from the sweep transformer (TX3201 pins 5 & 6) and applied to a half wave rectifier circuit (DX3001 & CX3001). This DC voltage is supplied to a precision resistor divider, which adjusts and fixes the HV shutdown point.

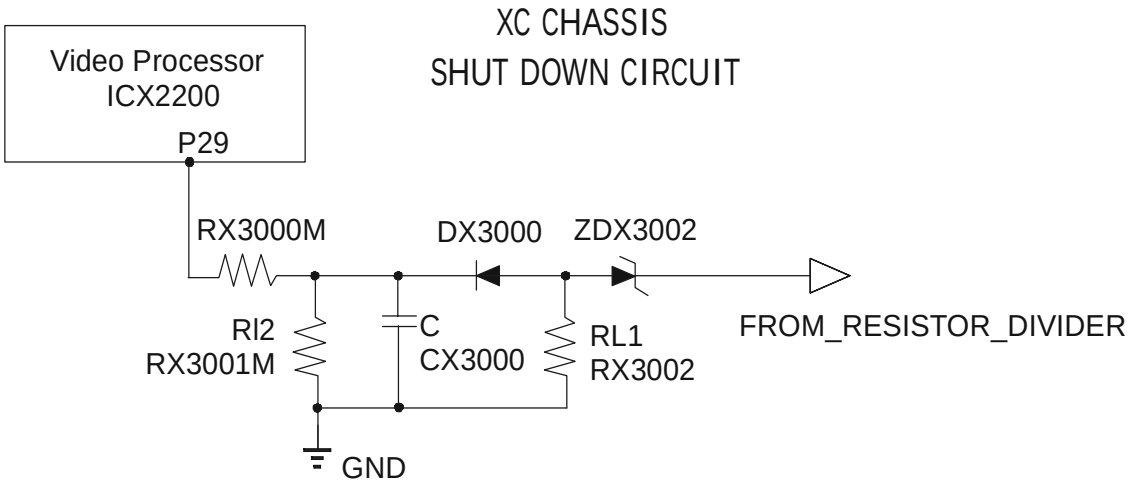
This voltage is applied to the Zener diode ZDX3002 12.0V. The resulting voltage from the Zener diode and the general-purpose diode is supplied to a DC filter (CX3000 RX3002) and finally to pin 29 through RX3000M.

The Zener Diode function is to keep a constant voltage on its terminals. Since the Zener is in series with the ICX2200 (see the figure below) a difference of voltage will appear on pin 29. So, if the voltage coming from the sweep is incremented drastically (as the HV does), the threshold voltage on pin 29 of ICX2200 should be reached and the TV set will turn off immediately.

NOTE: If a SHUTDOWN test is performed, the microcontroller will turn the TV off. The set will not turn on until it is unplugged and then plugged back in (resets the microcontroller).

The table below contains specifications for the Shutdown Circuit:

SCREEN SIZE	HV NOM KV	HV MAX KV	PHASE III HV SHUTDOWN LIMIT ZERO BEAM
27	28.0	30.0	36.0
32	30.0	32.0	37.0
36	30.0	32.0	37.0



SHUTDOWN CIRCUIT TEST

Equipment required:

a) K.V. DC meter (0 to 40 KV, high Z).

b) External variable power supply (0V to 8 VDC).

c) Shutdown Circuit.

Apply a voltage signal of an external power supply through the shutdown circuit (Refer to Figure shown below). Connect an accurate high voltage meter between the picture tube anode and chassis ground. Access the Video Menu and adjust Brightness and Contrast controls for minimum screen luminance. Wait until the Video Menu or display disappears. Read the high voltage meter, ramping up the external power supply from 0 to 8 volts, until the circuit shutsdown.

SAFETY CIRCUIT TEST PROCEDURE

Equipment required:

a) K.V. DC meter (0 to 30 KV, high Z).

b) Video Generator

Before turning the TV on, connect the HV meter's negative probe (-) to ground (DAG ground recommended) and the positive probe (+) in the anode of the CRT. Apply a video signal or tune the TV to a crosshatch pattern (either Lion or Convergence). Access the Video Menu and adjust Brightness and Contrast controls for minimum screen luminance. Wait until the Video Menu or display disappears. Now, the high voltage meter shows HV @ 0 beam.

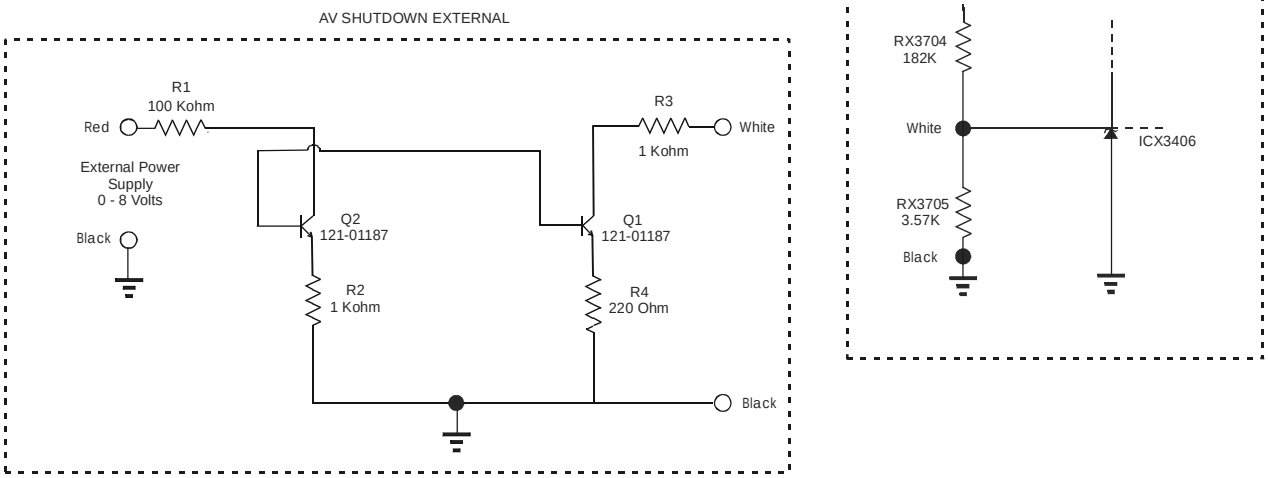


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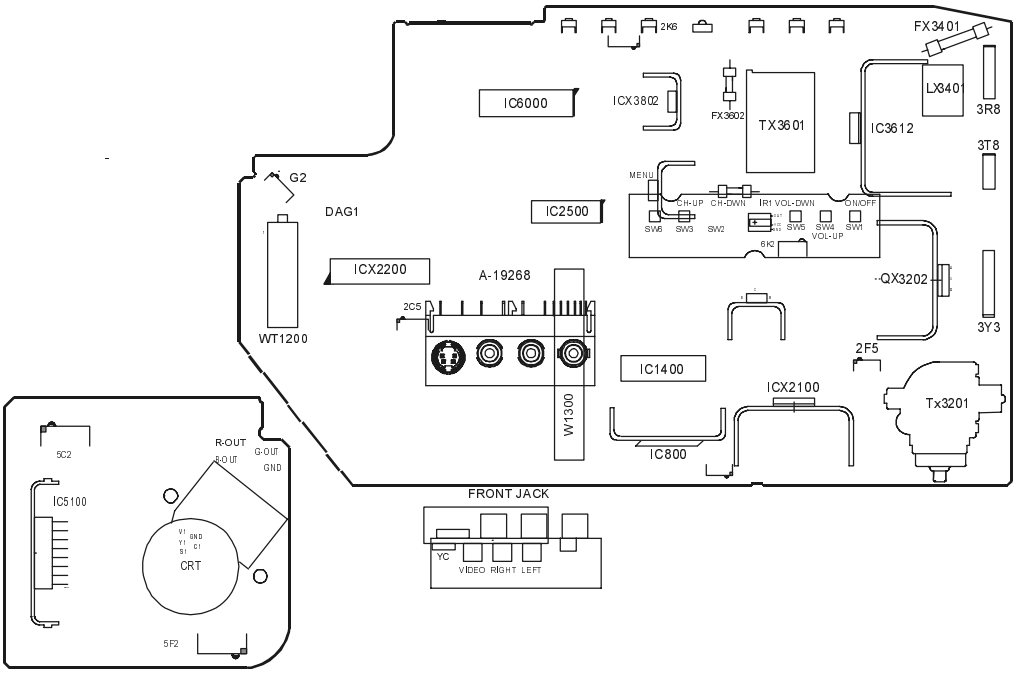
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INTRODUCTION

The XC chassis is a single sided printed circuit board (PCB) very similar to the CA Chassis. During the manufacturing process, the microprocessor will be programmed for any added features. Additional plug in boards with Jack Packs will be added to the chassis to accommodate the different features: Stereo, Mono, Video/Audio in, etc.

The ICX2200 integrated circuit (IC) handles all of the audio/video, sync, and drive processing. The IC6000 is the main microprocessor and the IC6001 is the EEROM memory. The keyboard and IR detector are tied directly to the IC6000. The IC2100/IC2101 handles the vertical sweep. At power on, voltages for the vertical and video output circuit are derived from this sweep circuit.

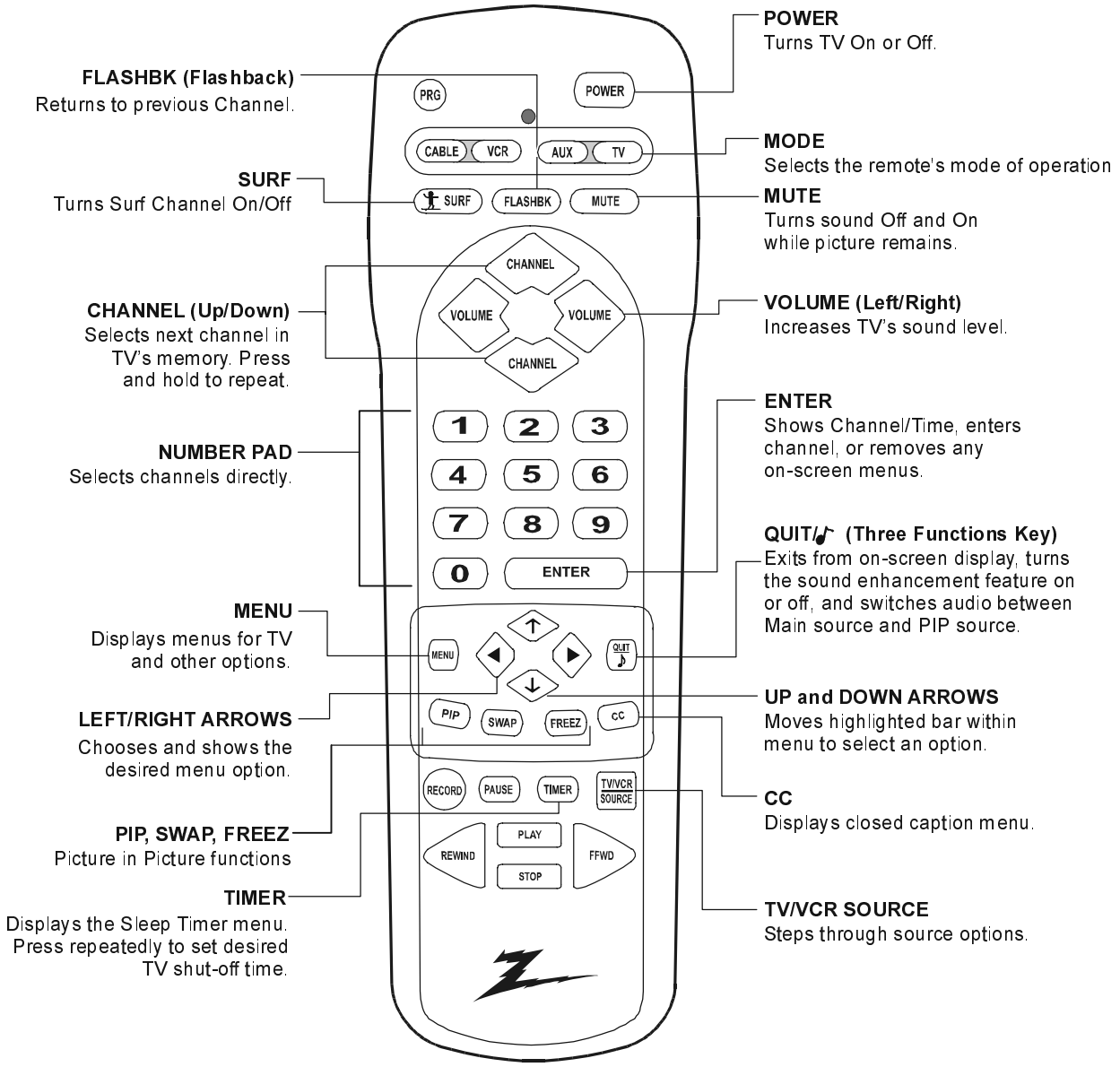
Feature and component information is listed below for each of the XC models.

XC Chassis Model Information

MODEL	SCR	CABINET	JACKS	PIP	MODULE	REMOTE	MICRO	OP GUIDE	FRENCH GUIDE
COMPONENT LEVEL REPAIR									
C27C35T(F)	27	TableTop	6	1 Tuner PIP	Component Level Repair	924-10084	905-10525	206-03590	901-10006
C27C41T(F)	27	TableTop	6	2 Tuner PIP		924-10085	905-10525	206-03591	901-10006
LGC29C35TM	29	TableTop	6	1 Tuner PIP		924-10084	905-10525	206-03590	901-10006
MODULE LEVEL REPAIR									
C32C35T(F)	32	TableTop	6	1 Tuner PIP	009-02167	924-10084	905-10525	206-03590	901-10006
C32C41T(F)	32	TableTop	6	2 Tuner PIP	009-02168	924-10085	905-10525	206-03591	901-10006
C36C35T(F)	36	TableTop	6	1 Tuner PIP	009-02169	924-10084	905-10525	206-03590	901-10006
C36C35T8	36	TableTop	6	1 Tuner PIP	009-02169-01	924-10084	905-10525	206-03590	- -
C36C41T(F)	36	TableTop	6	2 Tuner PIP	009-02170	924-10085	905-10525	206-03591	901-10006
C36C41T8	36	TableTop	6	2 Tuner PIP	009-02170	924-10085	905-10525	206-03591	- -
C32C84R	32	Console	6	2 Tuner PIP	009-02168-01A	924-10085	905-10525	206-03603	- -
C32C86R	32	Console	6	2 Tuner PIP	009-02168-01A	924-10085	905-10525	206-03603	- -
C36C86R	36	Console	6	2 Tuner PIP	009-02170-01A	924-10085	905-10525	206-03603	- -

(F) denotes a model that has a Canadian counterpart with an Operating Guide in French. All Sets Feature: Picture-In-Picture, Digital Comb Filter, 530 lines of resolution, 6 A/V Jacks (plus 4 front jacks), EZ Feature Package, MTS/SAP audio, SEQ Front Surround, Universal Remote, XDS and V-Chip Functionality.

MBR3457T REMOTE CONTROL



FLASHBK (Flashback)
Returns to previous Channel.

SURF
Turns Surf Channel On/Off

CHANNEL (Up/Down)
Selects next channel in TV's memory. Press and hold to repeat.

NUMBER PAD
Selects channels directly.

MENU
Displays menus for TV and other options.

LEFT/RIGHT ARROWS
Chooses and shows the desired menu option.

PIP, SWAP, FREEZ
Picture in Picture functions

TIMER
Displays the Sleep Timer menu. Press repeatedly to set desired TV shut-off time.

POWER
Turns TV On or Off.

MODE
Selects the remote's mode of operation

MUTE
Turns sound Off and On while picture remains.

VOLUME (Left/Right)
Increases TV's sound level.

ENTER
Shows Channel/Time, enters channel, or removes any on-screen menus.

QUIT/♪ (Three Functions Key)
Exits from on-screen display, turns the sound enhancement feature on or off, and switches audio between Main source and PIP source.

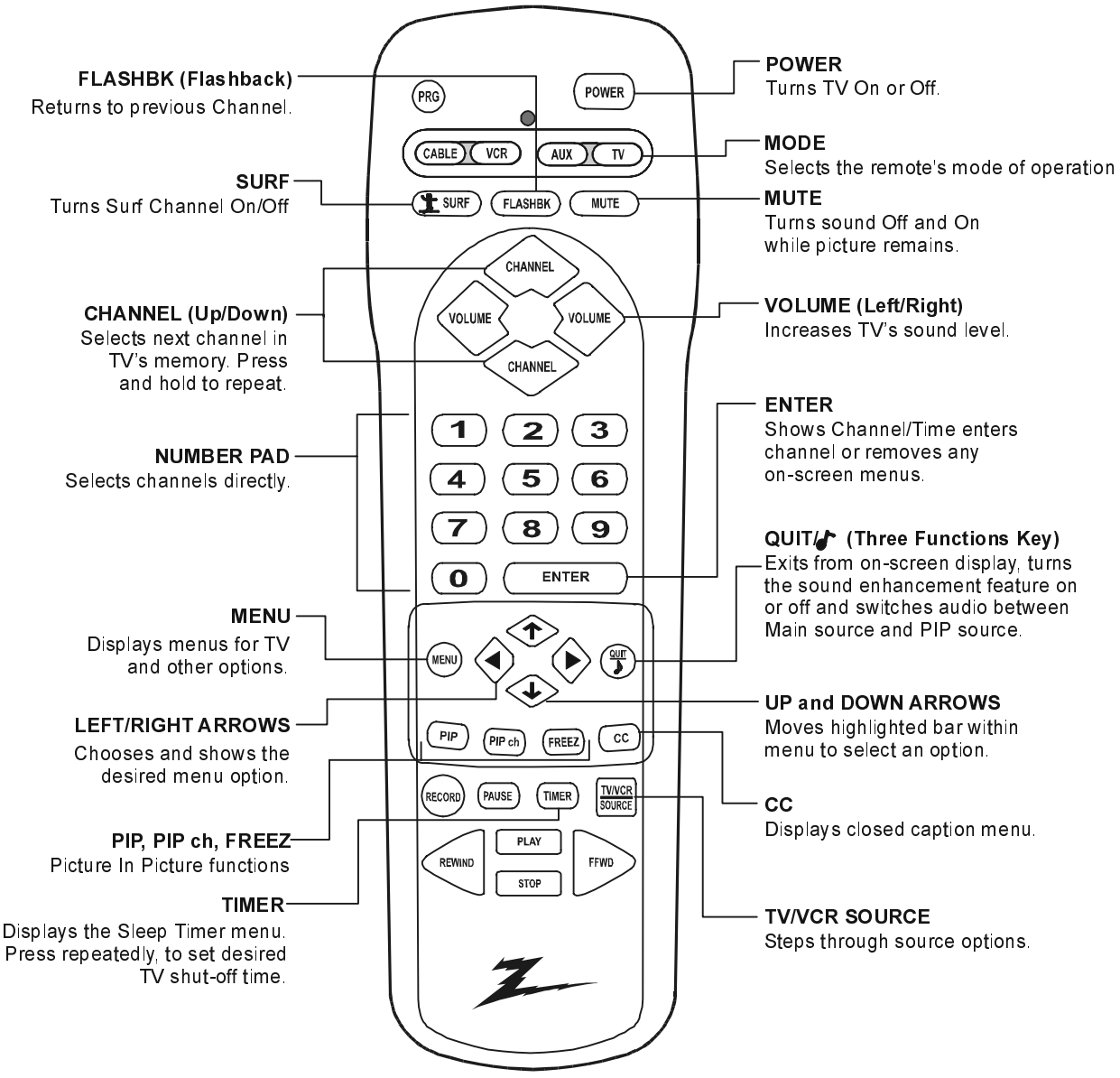
UP and DOWN ARROWS
Moves highlighted bar within menu to select an option.

CC
Displays closed caption menu.

TV/VCR SOURCE
Steps through source options.

MBR3457T
924-10084

MBR3458T REMOTE CONTROL



MBR3458T
924-10085

REMOTE PROGRAMMING

PROGRAMMING INSTRUCTIONS

If you're using Zenith products, the remote is already programmed for most common codes: TV = 101, VCR = 201, CABLE = 353, and AUX = 401. For other brands, or if your remote fails to control your Zenith products, you'll have to program the remote.

Make sure the batteries are installed and follow these steps for each product:

1. Press and hold PRG using a blunt pointed object. Release PRG after the indicator light turns on.
2. Press and release the device key for the product being programmed (CATV, VCR, AUX, or TV).
3. Enter the 3-digit product code from the chart on the next page.
4. Press and release ENTER to save the code.
5. Point the remote at the product and press POWER to test the product's operation. If it does not turn on, reprogram the remote using a different code.

AUTO FIND

If none of the codes in the code table operate your equipment, use Auto Find to search for the proper code.

1. Turn on the product you want to operate.
2. Press and hold PRG using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press the key to be programmed (CATV, VCR, AUX, or TV).
4. Enter "000", then press ENTER within two seconds. Auto Find is active after the indicator light flashes and remains lit.
5. Point the remote at the product.
6. Press and release POWER repeatedly, about once a second, until your product turns Off. The indicator light turns off when you press POWER and on when you release it.
7. Once the product turns off, press ENTER immediately to save the code. The indicator light flashes to indicate the code has been saved.
8. Press POWER to turn On your product.
9. Test your product. If the remote fails to operate the functions you use most often, use Auto Find again to search for a better code. (Auto Find resumes its search after the last code that was entered and saved in step 7).

NOTE:

If the indicator light stays on as you press POWER, Auto Find has tried all of the codes. If the product you want to control has not turned off, this remote will not work with that product. To cancel Auto Find, press PRG at any time during Auto Find.

CABLE BOX

This remote can control the cable/converter box volume and muting (instead of the TV's) if available on your equipment.

1. Program the cable/converter box normally.
2. After programming the cable/converter box, Press and hold PRG again using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press and release the same button used in set 1.
4. This time, enter the special code 3-9-9 instead of the product code.
5. Press and release ENTER to save.

VOLUME OVERRIDE

These remotes can override TV, VCR, or Video Disk Player volume functions with an amplifier's volume and muting.

1. Program the amplifier normally.
2. After programming the amplifier, Press and hold PRG again using a blunt pointed object. Release PRG after the indicator light turns on.
3. Press and release the device button whose volume control is to be replaced by the amplifier volume control. For example, pressing TV will operate the amplifier's volume while the remote is in TV mode.
4. This time, enter the special code 4-9-9 instead of the product code.
5. Press and release ENTER to save.

AUXILIARY CAPABILITY

This remote can control up to seven devices. If the remote has been programmed for four components using the TV, VCR, CABLE and AUX keys, you may also program it for up to three additional using AUX+1, AUX+2 and AUX+3.

TO PROGRAM AUX+1, AUX+2, AND AUX+3

1. Locate three-digit code for product in code table.
2. Press and hold PRG until indicator lights up.
3. Press the AUX and 1 simultaneously to select AUX+1.
4. Enter a three-digit code, then press ENTER. The indicator light should flash, then turn off to indicate code is accepted. If the light stays on, repeat steps 3 and 4 or try a different code.
5. Repeat steps 2-4 for AUX+2 and AUX+3.
6. Write the codes on the label inside battery compartment for future reference. Hold down AUX and press 1, 2, or 3 access AUX+1. +2 or +3 mode.

REMOTE CODES

TV

Admiral	116, 121, 130, 133
Akai	104
Amark	103, 146
AOC	104
Bell & Howell	121
Broksonic	131, 136, 182
Candle	139
Centurion	119
Citizen	121, 139
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Aiwa	231
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Toshiba	521, 961
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REMOTE CODES

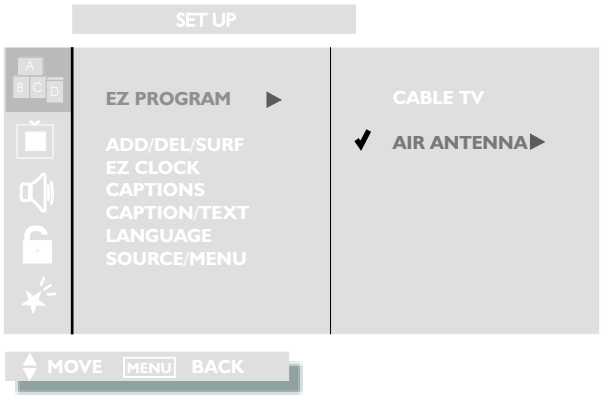
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SET UP MENU

The Setup Menu and all of the options for the XC Chassis are described below.

AUTO PROGRAM

To start the Auto Program, press the Left/Right arrow key. If the cable TV input type is selected, the Auto Program routines will determine what type of cable system is present.



Notes:

- ***Auto program clears all surfing channels which were added.***
- ***While searching for channels, all keys except the Power key are disabled. This prevents an incomplete Auto Program procedure.***
- ***Running the Auto Program will clear the factory mode, if it was active. This happens at the end of the Auto Program.***
- ***If the Auto Program line in the Setup Menu is red, the module did not pass one of the test equipment's tests. To clear this line to white, set the upper nibble of the EPROM location $1FF to $B0h.***
- ***If no channels are found the following message will appear: make sure that the cable/ant. is connected and try again.***

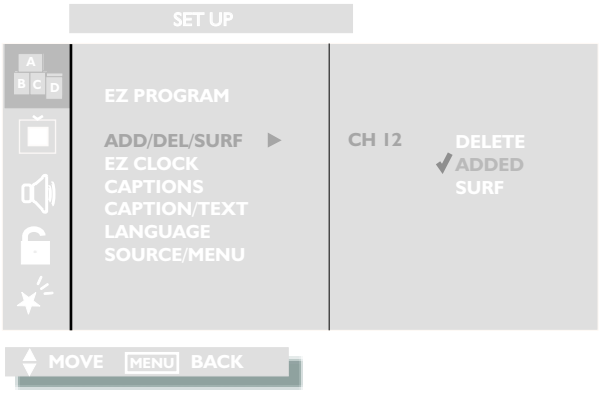
CHANNEL ADD/DEL/SURF

After running the Auto Program, channels found will be marked 'Added'.

To change the status of a channel press the Up/Down Arrow key.

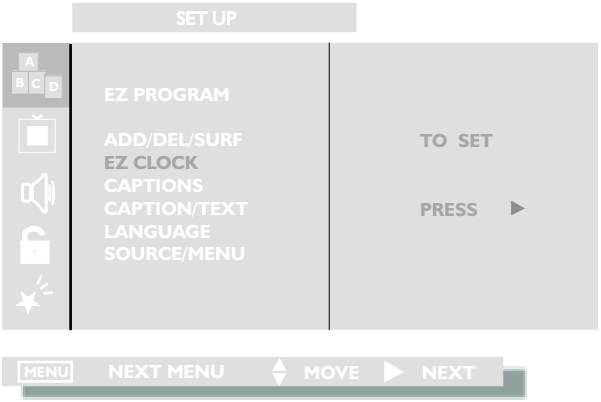
To change the channel while adding or deleting channels, use the Channel Up/Down. The next or previous channel, which was marked 'Added', will appear. If there is only one channel, the customer must use the digit keypad to select a channel.

When a channel is selected with the Surf key, the channel will be marked in the SURF option or it can be selecting in the Setup Menu.



EZ CLOCK

The figure below shows the menu for the EZ Clock, to adjust use the Left/Right arrow key.



CLOCK MODE

This menu contains two options, this are Auto and Manual. To select Manual or Auto use the Up/Down arrow key.

TIME ZONE

Select between Auto, Eastern, Central, Mountain or Pacific using the Up/Down arrow keys.

DAY SAVING

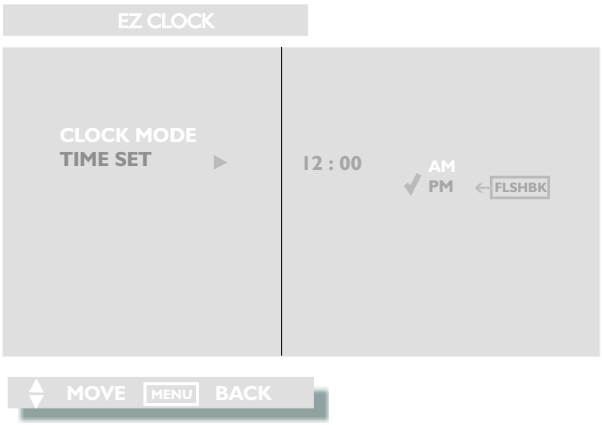
Adjust Day Light Saving time use the Up/Down arrow key.

MANUAL CLOCK MODE

Use the Up/Down arrow keys to select the desired manual option.

TIME SET

Use the Up/Down arrow keys to adjust the clock the desired Time Set option.



When no time is set, the display shows: -:- -

There are two ways to set the time:

1. Direct entry (preferred) Use the digit keys, followed by 'Enter' or Select Up/Down.
2. Left/Right arrow keys (see note 2)

When the first digit is introduced, the display shows: - - : - d AM FLSHBK

When the time is set, the display shows:

hh : mm AM FLSHBK

Where:

d= digit mm= minutes hh = hours

Entering an invalid time ("0" for example) will result in the clearing of the current time - - : - -.

Also when only one digit is pressed and no other is pressed in an interval of four seconds, the current time will be cleared.

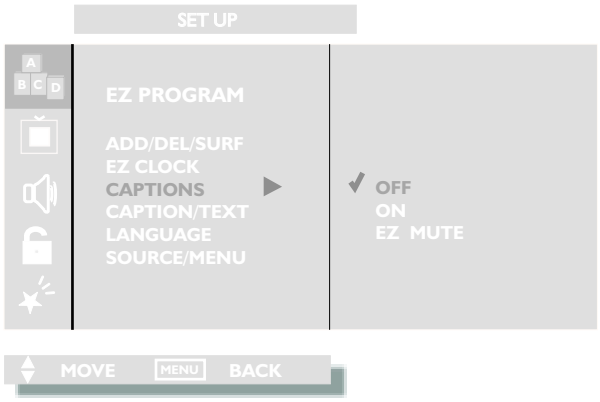
Notes:

- ***When the first digit is pressed (or the Left/Right arrow is pressed), a FLASHBACK icon appears on the right side of the AM/PM status.***
- ***For the 6-key keyboard use Volume Down for the left adjust key and Volume up for the left adjust arrow. Use the Channel Up/Down keys on the keyboard for the up and down adjust arrow keys from the remote.***

CAPTIONS

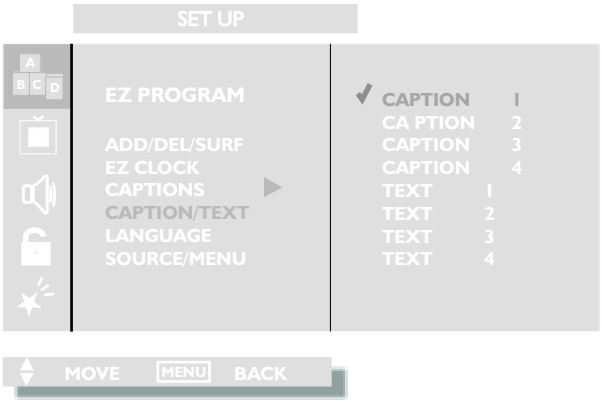
This feature allows the customer to select: Off, On or Ez Muted options.

To change the status of captions, press the Up/Down arrow key to select either Off, On or Ez Mute.



CAPTION TEXT

This feature allows the customer to activate or deactivate Captions or Text. Pressing the Up/Down arrow keys sequentially through each of the following Caption/ Text options Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3 or Text 4.

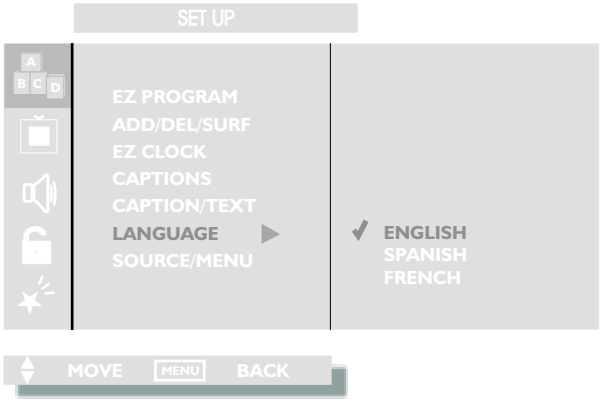


Notes:

- ***When the Text option is selected and a text box appears, if the CC key us pressed, the Caption box that allows setting to ON, Caption EZ Muted or Off will appear.***
- ***When the Captions are being displayed, of one of the Volume keys is pressed, the volume bar will not appear.***
- ***When the Captions are not activated and the CC key is pressed, the Caption box will appear, that allows choose On, Caption Ez Muted or Off.***

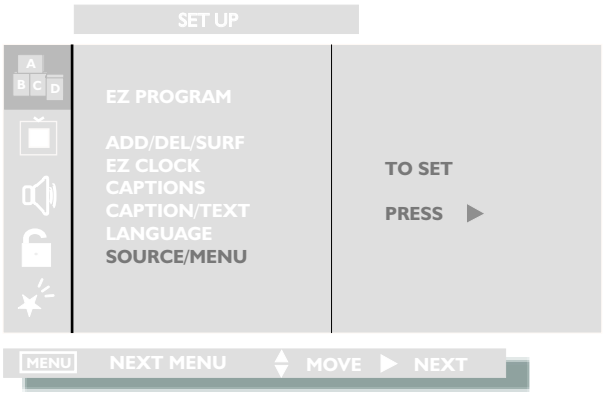
LANGUAGE

This feature allows the customer to change the menu language to English, Spanish or French by pressing the Up/Down arrow keys.



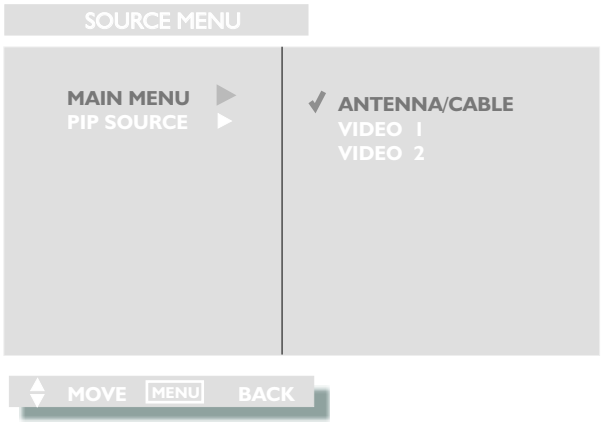
SOURCE MENU

This menu has two items, Main Source and PIP Source. The selection of either, Main Source or PIP Source determinates the signal that feeds the video processor. The options available are Antenna/Cable or Video.



MAIN SOURCE

The selection of Main determines the signal that feeds the video processor. This menu has two options; these are Main Source and PIP Source. To change of option to use the Up/Down arrow keys and selects one of the options Antenna/Cable, Video 1, Video 2.



PIP SOURCE

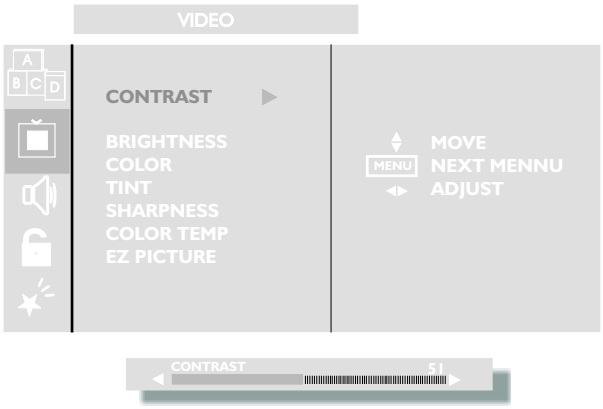
The selection of PIP Source determinates the signal that feeds the video processor. This feature allows select the PIP Source using Up/Down arrow keys.

VIDEO MENU

In the follows figures are shown the video menu, also the characteristics and adjustments.

CONTRAST

For adjust this feature use Left/Right arrow keys.



BRIGHTNESS

For adjust this feature use Left/Right arrows keys.

The brightness value sent to video processor is (RfBrt + Customer Brightness) if the source is on the RF source, or (AuxBrt + Customer Brightness) if the source is on the Aux source. Rfbrt and AuxBrt appear in the factory menu.

COLOR

To adjust this feature use Left/Right arrow keys. Color adjustment also has 64 steps (o to 63).

TINT

To adjust this feature use Left/Right arrow keys.

SHARPNESS

To adjust this feature use Left/Right arrow keys. Sharpness adjustment has 64 steps (o to 63).

COLOR TEMP

This feature allows the customer to select between Cool or Warm, pressing Up/Down arrow keys.

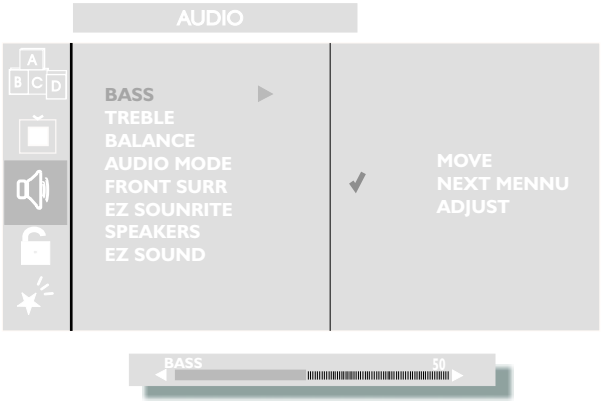
EZ PICTURE

This feature allow to select one of the follow options, Custom, Normal, Movie, Digital Pres, Video Game, Sports, Weak Signal, NightTime. To change option to use the Up/Down arrow keys.

AUDIO MENU

BASS

Bass adjustment has 15 steps (0 to 14).



TREBLE

Treble adjustment has 15 steps (0 to 14).

BALANCE

Balance adjustment has 29 steps (0 to 28).

AUDIO MODE

There are three audio modes available: Mono, Stereo and SAP. If SAP is selected, but the current does not support SAP, the channel actual will be reproduced.

Note: If the program does not support Stereo, there the audio will reproduce in mono.

SOUNDRITE

The Sound Rite feature is used to obtain a uniform volume level, particularly while changing channels. The Sound Rite feature can be best demonstrated on a channel with no signal (snow). Use the Up/Down arrow key.

SPEAKERS

To Turn off the speakers of the part front selecting Off, Use the Up/Down arrow key.

EZ SOUND

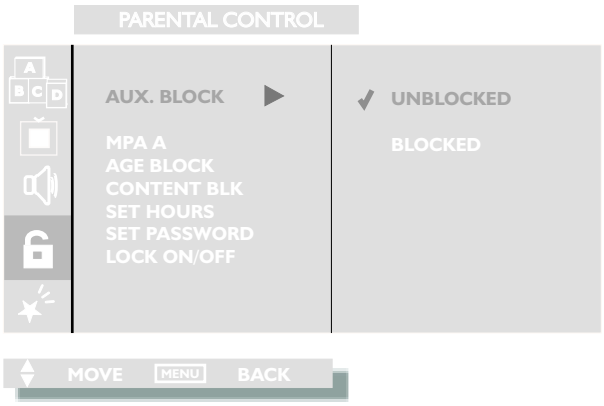
This option has various effects of sound, these are Custom, Normal, Stadium, News, Music and Theater. Use Up/Down arrow key.

PARENTAL CONTROL

In the follow section are shown the menus for each option, use the Up/Down arrow keys to select the desired option.

AUXILIARY BLOCK

The SOURCE key may be used to view the video source.



MPAA

The MPAA selector allows the customer to select either to have the channel Unblocked, G and Above, PG and Above, PG-13 and Above, R, NC-17 or X.

AGE BLOCK

Use Left/Right arrow keys to select the Age Block Menu.

GENERAL BLOCK

To block channels for a general age, select either: Unblocked, TV-G and Above, TV-PG and Above, TV-14 and Above or TV-MA.

CHILDREN BLOCK

To block channels for children, select either: Unblocked, TV-Y and Above or TV-Y7.

CONTENT BLOCK

Use the Left/Right arrow keys to select the Content Block Menu.

DIALOG BLOCK

To block an entire program with the dialog rating, use the Up/Down arrows keys to select either: Unblocked, TV-PG or TV-14.

LANGUAGE BLOCK

To block an entire program with the language rating, use the Up/Down arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above or TV-MA.

SEX SCENES BLOCK

To block an entire program with the Sex scenes rating, use the Up/Down arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above or TV-MA.

VIOLENCE BLOCK

To block an entire program with the Violence rating, use the Up/Down arrow keys to select either: Unblocked, TV-PG and Above, TV-14 and Above or TV-MA

F VIOLENCE BLOCK

To block an entire program with the F violence rating, use the Up/Down arrow keys to select either: Unblocked or TV-Y7.

NO RATING

To block an entire program with No Rating, use the Up/Down arrow keys to select either: Blocked or Unblocked.

SET HOURS

Use the Left/Right arrow keys to adjust the number of hours the Parental Control feature will be active. The valid hour range is 1 to 99.

SET PASSWORD

Press the Left/Right key to allow Password entry.

TO ENTER PASSWORD

The software accepts four-digit codes only. The customer must enter a password.

REPEAT PASSWORD

After a four-digit code has been entered, the software requires the customer to re-enter the same four-digit code.

PASSWORD NOT ACCEPTED!

If an invalid code is entered, or the two codes do not match, an error message (“Not Accepted”) will appear. This error message also appears when no code is entered for the password or if only one digit is entered and no other digit has been entered.

LOCK ON/OFF

This item turns the Parental Control feature On/Off. The Parental Control feature can only be turned on if the hours > 0, and a password has been set. Otherwise the Lock On/Off line will display either of the following error messages: (“Must Set Hours”) or (“Must Set Password”).

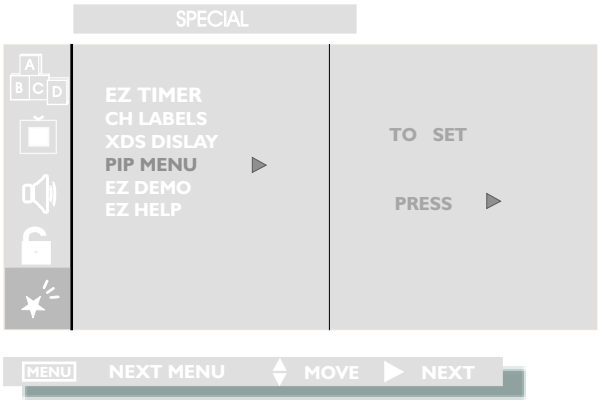
PARENTAL LOCKOUT IS ACTIVE

The figure follows show the display, when a channel is blocked.

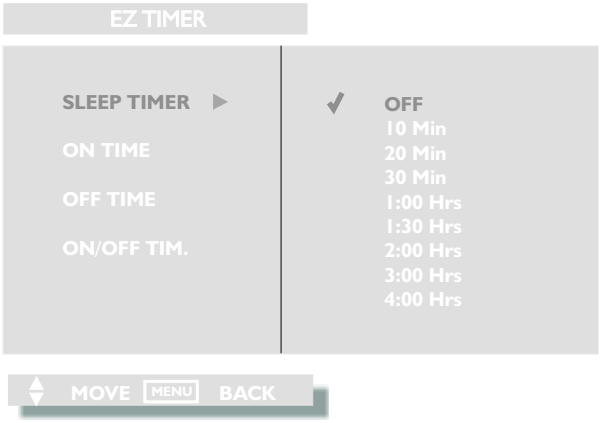
SPECIAL MENU

EZ TIMER

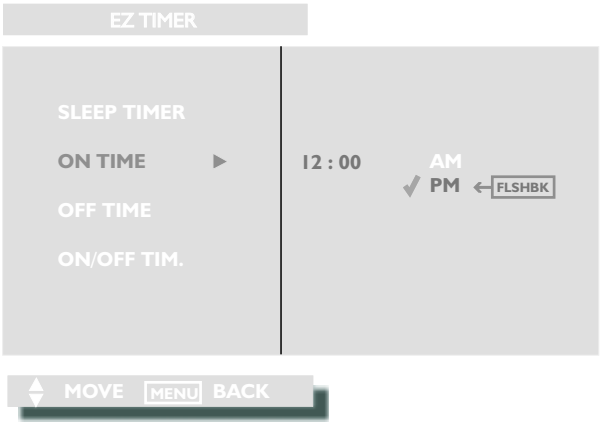
This Special Features line allows entry into the Timer Menu. It consists of five menu lines: “Sleep Timer”, “On time”, “Off time” and “On/Off Timer”. This feature allows the set to turn on and off at the times specified in “On Time” or the “Off Time” is identical to the Clock Set feature in the Setup Menu.



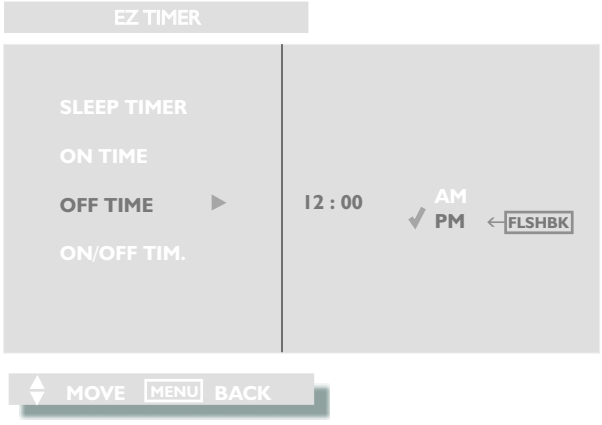
SLEEP TIMER



ON TIME



OFF TIME



ON/OFF TIME

The On/Off Time can be selected using the Up/Down keys. (Use volume down and volume up for 6-key keyboard).

Pressing the TIMER key will increment the Sleep timer to 0:10 and restore all other key functions.

Note: Both the On time and the Off time must be specified, before turning on the "On/Off Timer" - - otherwise an error message ("Must Set On/Off") will be displayed on the displayed in the On/Off Timer line.

CHANNEL LABELS

This feature allows the customer to select a channel label for the current station. This channel label is displayed in the Channel/Time display. Initially all channel labels are set to '_ _' (which means that auto label is selected).

To change the current channel label, press the left or Right arrow key.

Channel Labels						
A&E	CMTV	ESPN	HSE	NOS	TBN	VC
ABC	CNBC	ESP2	HSN	PBS	TELE	VCR
ACTS	CNN	ET	IC	PLAY	TLC	VH-1
ADC	COM	EWTN	INSP	PTL	TMC	VISN
AMC	CSPN	FAM	JCN	QVC	TNN	VJN
BCC	CSP2	FNN	LIFE	RDS	TNT	WB
BET	CTN	FOX	MAX	REQ	TRAV	WGN
BRAV	CTV	F&V	ME/U	SC	TSN	WTBS
CA	DIS	FX	MMT	SCFI	TVA	WWOR
CBC	DISC	GALA	MTV	SHOW	TWC	YTV
CBN	E!	HBO	NBC	SIN	UPN	- - - -
CBS	ENC	HN	NICK	TBS	USA	None

NOTE: Selecting the "- - - -" label option means that auto label is selected. Selecting the "None" option means the channel will not have a label.

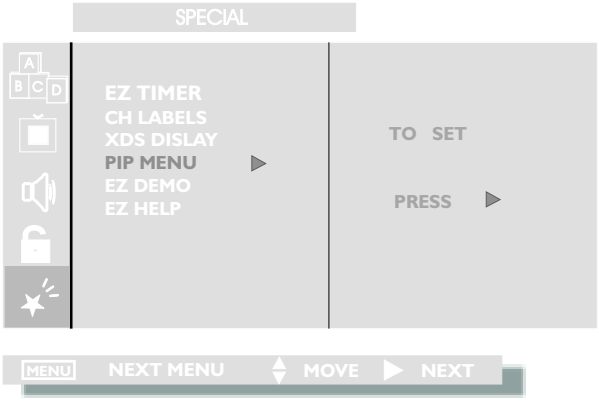
Note: Selecting the "_ _ _ _ " label option means the channel will not be displayed on the channel/ time/audio signal display. Selecting the "None" option means the channel will not have a label.

XDS DISPLAY

When this option is activated, the on screen display will show channel and program information. Use the Up/Down arrow keys to select.

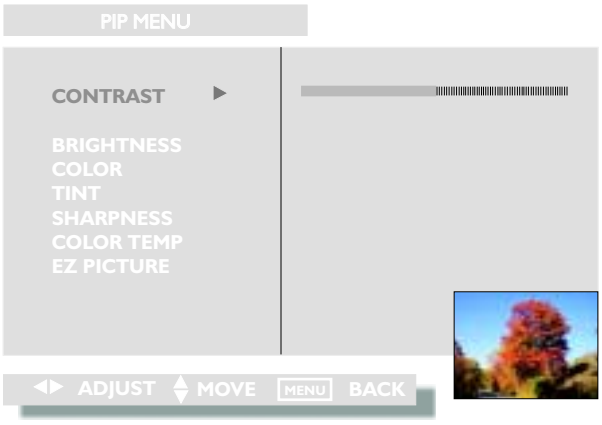
PIP MENU

All menu items are adjust with the Left/Right arrows keys, except the size menu.



CONTRAST PIP

Contrast adjustment has 15 (0 to 15). A center mark indicates step 8. This item allows the contrast adjustment of the PIP window.



BRIGHTNESS PIP

Brightness adjustment has 15 steps (0 to 15). A center mark indicates step 8. This item allows the contrast adjustment of the PIP window. The brightness value sent to the video processor is (RfBrt + Customer Brightness) if the source is on the RF source, or (AuxBrt + Customer Brightness) if the source is on the AUX source. RfBrt and AuxBrt appear in the factory menu.

COLOR PIP

Color adjustment has 15 steps (0 to 15).

TINT PIP

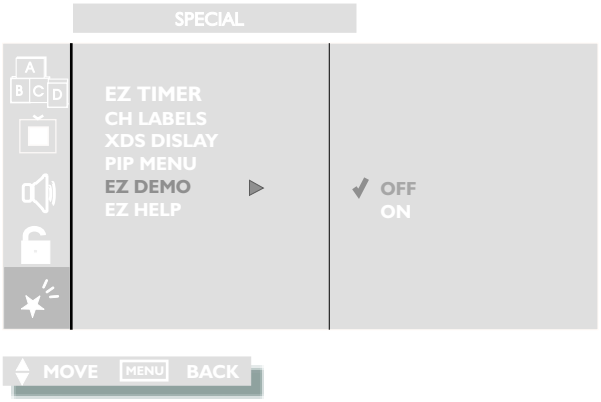
This item allows the PIP tint. Tint adjustment has 63 steps (0 to 63).

SIZE PIP

This option is used to select size of the PIP window. The customer may select the PIP window size either Large or Small. Use the Up/Down arrow keys to selecting.

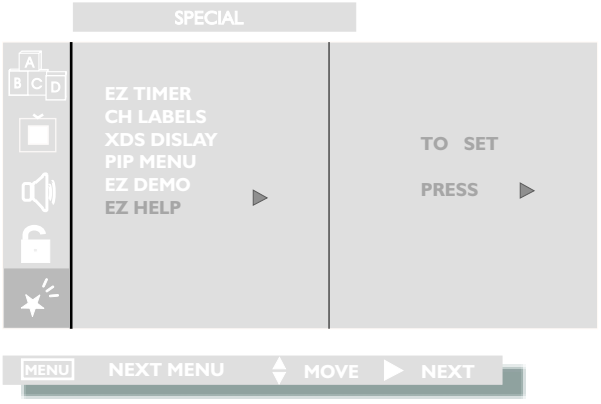
EZ DEMO

When this option is activated, after 12 seconds it will start displaying the different on screen menus.



EZ HELP

This feature offers help for the customer, for entire Ez Help menu to use the Left/Right arrow keys. All menus are selected using the Up/Down arrow keys.



EZ PROGRAM HELP

This feature offers help for the programming of the channels.



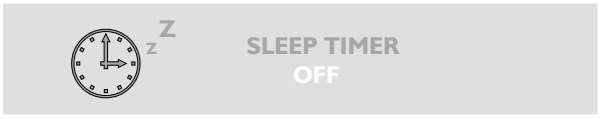
ADD/DEL/SURF HELP

This feature offers help for the programming of the channels.



SLEEP TIMER

The user can choose to activate the timer to turn off the Television in 10, 20 or 30 minutes or 1, 1:30, 2, 3 or 4 hours just by clicking on the sleep timer clock.



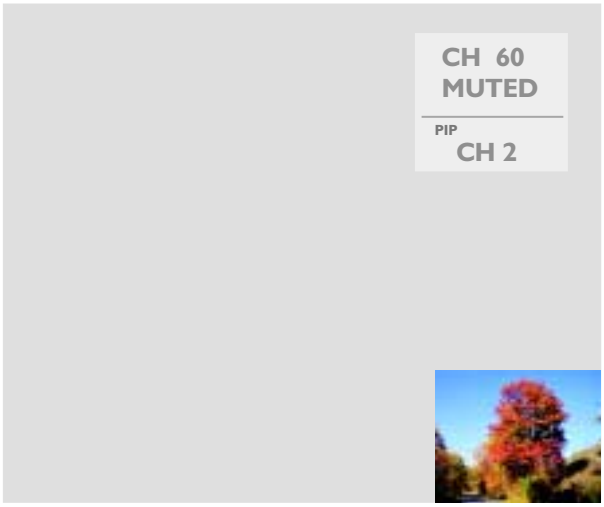
CAPTIONS

The user can choose to activate between the options Off, On or when muted.



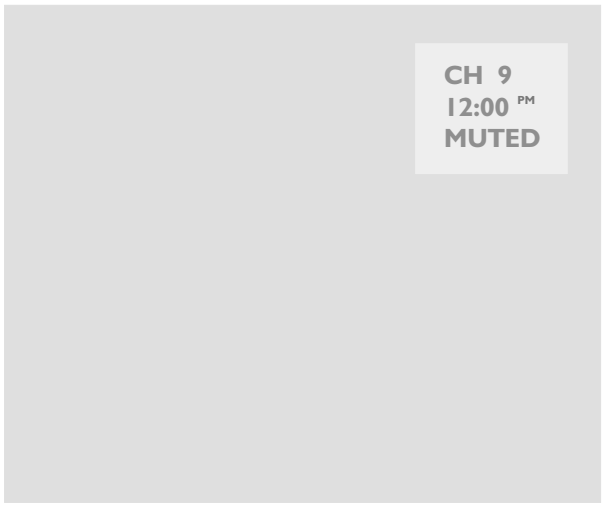
CHANNEL AND PIP DISPLAY

The following display appears when the channel display and PIP is on.



CHANNEL TIME DISPLAY

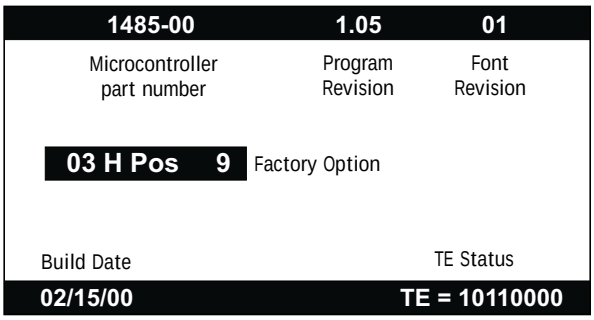
When the ENTER key is pressed and the PIP is off the TV display will appear. The following is an example of the display screen:



905-10525 FACTORY MENU

FACTORY MENU ADJUSTMENTS

To access the Factory Menu, press and hold the MENU key until the User Menu display disappears, then press 9876, and then ENTER to access the Factory Menu.



The black bar near the top of the screen indicates the part number of the software in the TV set. To the right is a number indicating that the module has been tested. The date on the black bar near the bottom of the screen indicates the date the module went through the factory. When the Factory Menu appears, it displays the fourth Factory Menu item: VERT POS. Use the SELECT UP/DOWN keys to toggle through all of the adjustments. Use ADJUST to make a change to the selected item.

00 FACT MENU: Use SELECT UP and DOWN Keys to select item 00, the Factory Mode. The Factory uses this item when the module is being tested. It has two positions: 0 and 1. In the field, this item should always be left off (Zero is off).

When this item is off, only the first twenty-four items in the Factory Menu can be accessed. They appear one at a time near the middle left of the screen. When this item is set to 1, 60 menu items are available.

In the Factory Menu, only the selected menu item is displayed, near the top of the screen, as shown in the figure.

When the Factory Menu is on, the AC Power-On feature is always enabled regardless of the setting of AC ON in the Factory Menu. The TV set will automatically come on when AC is applied.

Use the remote to reenter the Factory Menu to turn the Factory Menu off. Setting the clock or running the Auto Program feature in the customer Set Up menu can also turn off the Factory Mode.

01 PRESET PX: Stores customer menu adjustments in the nonvolatile memory of the EAROM. Selections are Custom and Preset-Store. Settings for Contrast, Brightness, Color and Tint are stored in this manner. 0 is custom and 1 is Preset stored.

02 VERT POS: Moves On-Screen Displays vertically. The Range is from 0-30. This adjustment is generally set at 15.

03 H0RZ POS: Moves On-Screen Displays horizontally. Range is from 1-45. Generally set at 20.

04 FEATURE LEVEL: There are three positions: 0,1 and 2.The three pisitions are used at the factory toprogram the module for the correct features. In order to change the level, short pins 3 and 4 togather on connector 4G9 on the main module.

NOTE: BE CAREFUL! IF THE WRONG PINS ARE SHORTED, THE MODULE CAN POSSIBLY BE DAMAGED.

NOTE: BE SURE TO REMOVE THE JUMPER AFTER THE LEVEL HAS BEEN SET.

Level 0 and 2 is used for private label's set.

level 1 and 2 are used for Zenith set.

05 BAND: There are eight positions.

0 is Broadcast fixed	4 is Broadcast afc.
1 is CATV afc	5 is CATV fixed
2 is HRC afc	6 is HRC fixed
3 is ICC afc	7 is ICC fixed

06 POWER ONLY: There are two positions, 0 is off and 1 is AC on. In position 1 the unit will turn on and off when AC power is applied and removed.

07 RF SUB BRT: (RF brightness) Sets adjustment range of customer control for brightness in RF mode. Range is 0-63. A typical value is 32.

08 AUX SUB BRT: (Auxiliary Brightness) Sets adjustment range of the customer control for brightness in AUX mode. Range is 0-63. Typical value is 32.

09 MAX CONTRAST: Sets adjustment range of customer control for contrast. Range is 0-63. Typical value is 63.

10 VERT SIZE: (Vertical Size) Range is 0-254.

11 HORZ SIZE: (Horizontal Size) Range is 0-254.

12 VERT PHASE: (Vertical Phase) Shifts picture vertically.Range is 0-7.

13 HORZ PHASE: (Horizontal Phase) Shifts picture horizontaly. Range is from 0-30.

14 HORZ AFC: Fast/slow responce . Horizontal frequency controle. Range is 0-1.

15 BAND PASS: Sets adjustment range of the customer control for brightness in therefore mode. Range is 0-1. Set to 1.

16 TRAP 3.58: Zero is off, one is on. Set to 1 for normal TV operation. Set to 0 if Y/C is used or chassis has a comb filter.

17 RED CUT: B&W tracking adjustment. Range is 0 to 254. Typical value is 0.

18 GREEN CUT: B&W tracking adjustment. Range is 0-254. Typical value is 0.

19 BLUE CUT: B&W tracking adjustment. Range is 0-254. Typical value is 0.

20 GREEN GAIN: B&W tracking adjustment. Range is 0-255. Typical value is 144.

21 BLUE GAIN: B&W tracking adjustment. Range is 0-254. Typical value is 144.

22 60HZ SW: (60 Hertz Switched) The range is 0 to 2. Set to 2.

23 WHITE COMPRESS: (White Compression) The range is 0 to 1. Set to 1. 0 = Enable and 1 = Disable.

24 6 KEY SYSTEM: Keyboard type. Set to 1 for 6 key and 0 for 10 key.

25 FRONT JACK: 1 = enabled, 0 = disabled

26 XTAL SELECT: Select the xtal oscillator for OSD. range is 0-1

27 SOUND ATT: Composite audio level adjustment . Range is 0 -63.

28 SOUND ATT2: Composite audio level adjustment for tuner 2. Range is 0 -63.

29 RF AGC: (Rf Automatic Gain Control) Range is from 0-63. 48 is a general setting. Tune in weakest available channel and adjust for a snow- free picture.

30 PIF VCO: Range is 0-127. 70 is typical.

31 AUDIO ATT: Audio Attenuator for main tuner. Range is 0-15. 9 is typical.

32 AUDIO VCO: Audio voltage controled oscillator. Range is 0 -63. 31 is typical.

33 AUDIO FILTER: (Second Audio Program Voltage-Controlled Oscillator) Stereo, SAP, and dBx filter adjustment. Range is from 0-63.

34 AUDIO SPECTRL: Adjustment of stereo separation (3kHz). Range is 0-63.

35 WIDE BAND: Adjustment of stereo separation (300kHz). Range is 0-63.

36 DELAY PIP SELECT: Delay of output signal.Range is 0 -15.Typical is 15.

37 PIP V LEV: PIP auto gain controle. Range is 0 - 15 . Typical is 14.

38 YOFSET: PIP luminance offset. Range is 0 - 3. Typical is 0.

39 PIP PLLITC: PIP PLL syncronization. Range is 0 - 3. Typical is 0.

40 PIP HFP: PIP horizontal fine position. Range is 0 - 31. typical is 0.

41 PIP INCRA: PIP Regenerated Color Carrier Frequency. Range is 0 - 31. Typical is 15.

42 PIP RED CUTOFF: Adjustment of blanking level. Range is 0 - 15. Typical is 0.

43 PIP GREEN CUTOFF: Adjustment of blanking level. Range is 0 - 15. Typical is 0.

44 PIP BLUE CUTOFF: Adjustment of blanking level. Range is 0 - 15. Typical is 0.

45 PIP COLOR FRAME: Range is 0 - 63. Typical is 16.

46 PIP FR WID H: PIP Horizontal width of frame.Range is 0 - 7. Typical is 1.

47 PIP FR WID V: PIP Vertical size of frame. Range is 0 - 3. Typical is 0.

48 PIP C KILL: PIP Color Killer threshhold. Range is 0 - 3. Typical is 2.

49 PIP Y PEAK: PIP Luminance peaking. Range is 0 - 7. Typical is 4.

50 PIP R GAIN: PIP Red Amplitude. Range is 0 - 254. Typical is 190.

51 PIP G GAIN: PIP Green Amplitude. Range is 0 - 254. Typical is 190.

52 PIP B GAIN: PIP Blue Amplitude. Range is 0 - 254. Typical is 190.

53 PIP COLOR ON: PIP Color on/off. Range is 0 - 1. Typical is 0.

54 PIP FRAME SEL: 3D PIP Frame Selection. Range is 0 - 1. Typical is 1.

55 PIP X1 POSITION: Range is 0 -127.

56 PIP Y1 POSITION: Range is 0 - 254.

57 PIP X2 POSITION: Range is 0 -127.

58 PIP Y2 POSITION: Range is 0 -254.

905-10525 FACTORY MENU (continued)

ITEM	Range	All 27"	C32C35T(F)	C32C41T(F)	C32C84R	36" Suffix 8	Other 36"	DESCRIPTION
00 F MODE	0-1	0	0	0	0	0	0	Factory mode pref.
01 PICTURE PREFERENCE	0-1	0	0	0	0	0	0	Used to store customer menu adjustment
02 VERTICAL POSITION	0-30	15	15	15	15	15	15	Moves captions and displays vertically
03 HORIZONTAL POSITION	0-80	9	9	9	9	9	9	Moves captions and displays
04 FEATURE LEVEL	0-2	1	1	1	1	1	1	Selects Zenith or private IR codes
05 TUNING BAND	0-7	0	0	0	0	0	0	Broadcast band adjustment
06 POWER ONLY	0-1	0	0	0	0	0	0	AC Power Only Off/On
07 RF SUB BRIGHTNESS	0-63	29	36	36	36	29	29	Brightness for RF mode
08 AUX SUB BRIGHTNESS	0-63	29	36	36	36	29	29	Brightness for Aux. mode
09 MAX CONTRAST	0-6	63	63	63	63	63	63	Sets customer control for contrast
10 VERTICAL SIZE	0-254	100	100	100	100	100	170	Vertical amplitude adjustment variable
11 HORIZONTAL SIZE	0-254	0	100	100	100	100	170	Horizontal amplitude adjustment variable
12 VERTICAL PHASE	0-7	0	3	3	3	0	0	Shifts picture vertically
13 HORIZONTAL PHASE	0-30	18	18	18	18	18	18	Shifts picture horizontally
14 HORIZONTAL AFC	0-1	1	1	1	1	1	1	Horizontal automatic frequency control
15 BAND PASS FILTER	0-1	1	1	1	1	1	1	Band Pass Filter
16 TRAP 358	0-1	1	1	1	1	1	1	3.58 MHz Trap
17 RED CUT OFF	0-254	0	0	0	0	0	0	R channel cutoff control
18 GREEN CUT OFF	0-254	0	0	0	0	0	0	G channel cutoff control
19 BLUE CUT OFF	0-254	0	0	0	0	0	0	B channel cutoff control
20 GREEN GAIN	0-254	90	90	90	90	90	90	B & W Tracking Adjustment
21 BLUE GAIN	0-254	90	90	90	90	90	90	B & W Tracking Adjustment
22 SWITCH 60 HZ	0-2	2	2	2	2	2	2	60 Hertz Switched
23 WHITE COMPRESS	0-1	1	1	1	1	1	1	White compression
24 6 KEY SYSTEM	0-1	1	1	1	1	1	1	Keyboard Types
25 FRONT JACK	0-1	0	0	0	0	0	0	Front Jack Enable
26 XTAL SELECT	0-1	0	0	0	0	0	0	External crystal
27 SOUND ATT	0-63	46	46	46	46	46	46	Audio Level for Main Tuner
28 SOUND ATT2	0-63	46	46	46	46	46	46	Audio Level for Second Tuner
29 RF AGC	0-63	50	50	50	50	50	50	Weak channel adjustment
30 PIF VCO	0-127	70	70	70	70	70	70	PIF Voltage Controlled Oscillator
31 AUDIO ATTENUATOR	0-15	9	9	9	9	9	9	Audio Attenuator for Main Tuner
32 AUDIO VCO	0-63	31	31	31	31	31	31	Audio Voltage Control Oscillator
33 AUDIO FILTER	0-63	31	31	31	31	31	31	Audio Filter
34 AUDIO SPECTRAL	0-63	31	31	31	31	31	31	Adjustment of stereo separation
35 AUDIO WIDE BAND	0-63	31	31	31	31	31	31	Audio Wide Band Low Frequency separation
36 DELAY PIP SELECT	0-15	15	15	15	15	15	15	Delay of output signal
37 PIP V LEV	0-15	14	14	14	14	14	14	Auto Gain Control
38 YOFFSET	0-3	3	2	0	0	0	0	PIP Luminance Offset
39 PIP PLLITC	0-3	2	0	2	2	0	0	PIP PLL Synchronization
40 PIP HFP	0-31	0	0	0	0	0	0	Horizontal Fine Position
41 PIP INCRA	0-31	15	15	15	15	15	15	PIP Regenerated Color Carrier Freq.
42 PIP RED CUTOFF	0-15	0	0	0	0	0	0	Adjustment of Blanking level of R DAC
43 PIP GREEN CUTOFF	0-15	0	0	0	0	0	0	Adjustment of Blanking level of G DAC
44 PIP BLUE CUTOFF	0-15	0	0	0	0	0	0	Adjustment of Blanking level of B DAC
45 PIP COLOR FRAME	0-63	16	16	16	16	16	16	PIP Color Frame
46 PIP FR WID H	0-7	2	2	2	2	2	2	PIP Horizontal Width of Frame
47 PIP FR WID V	0-3	1	1	1	1	1	1	PIP Vertical Width of Frame
48 PIP C KILL	0-3	2	2	2	2	2	2	PIP Color Killer Threshold
49 PIP Y PEAK	0-7	4	4	4	4	4	4	PIP Luminance Peaking
50 PIP R GAIN	0-254	190	190	190	190	190	190	PIP Amplitude of R Output Signal
51 PIP G GAIN	0-254	190	190	190	190	190	190	PIP Amplitude of G Output Signal
52 PIP B GAIN	0-254	190	190	190	190	190	190	PIP Amplitude of B Output Signal
53 PIP COLOR ON	0-1	0	0	0	0	0	0	PIP Color Killer
54 PP FRAME SEL	0-1	1	0	0	0	0	0	3D PIP Frame Selection
55 PIP X1 POSITION	0-127	17	17	17	17	14	14	PIP position X1
56 PIP Y1 POSITION	0-254	12	9	9	9	11	11	PIP position Y1
57 PIP X2 POSITION	0-127	109	109	109	109	109	112	PIP position X2
58 PIP Y2 POSITION	0-254	73	73	73	73	73	73	PIP position Y2

GENERAL INFORMATION

Servicing the XC chassis is the same as with other Zenith single-board chassis. If the set is dead, first check the standby and switched voltages. If the switched voltages do not appear, check the power "On" circuit. If the power supply is OK and the set will turn On, the Horizontal sweep circuit should be checked next. Is horizontal drive available from the video processor chip? If the sweep system does not start up, sweep-derived voltages will not be generated.

If the sweep and high-voltage circuits are OK and video or audio are missing, then the audio/video/tuner circuits should be checked. If the receiver is working but some feature is not working, check the Factory Menu. Bring up the Factory Menu and check to be sure that all items are set correctly.

COMPONENT-LEVEL SERVICING

The following troubleshooting information is intended for component servicing on the 19" through 27" models. Replacement modules are available on an exchange basis for the 32" and 36" models.

If the CRT or Video processor IC are replaced, Black/White tracking must be reset. Refer to the FACTORY MENU section of this book for Black/White tracking adjustments.

When troubleshooting video circuits, remember that all video travels through the PIP IC (if used) and the Video/Audio switcher IC. A defect in either of these IC's can result in no video.



WARNING!

DO NOT disconnect the Video output module from the CRT when troubleshooting 32" and 36" receivers. If the video output module is removed on these sets while power is ON, the CRT will arc and can be permanently damaged. Also, the technician is in danger of serious shock. There is a termination circuit (R5110) on the CRT module to prevent this from happening.

If the microprocessor (IC6000) or the EEPROM (IC6001) are replaced, be sure to check the values for all factory menu items. It may be necessary to manually change every item by one value, then back again to then desired value. This assures that the data is all correctly saved in the EEPROM. Failure to do this may produce unpredictable behavior in the TV and in any other TVs which are cloned .

ADJUSTMENTS

G2 ADJUSTMENT

Use the following ***procedure when resetting G2.***

1. Set brightness and contrast in Video Menu to mid range.
2. Set color level to minimum.
3. Connect output of an NTSC generator to the antenna input on the receiver. Select a color bar signal and turn chroma off.
4. Adjust G2 control so that bar patterns range from completely black to a "not overdriven" (not saturated) white. There should also be a distinct difference between black and white bars. Different shades of gray should also be distinguishable if the G2 is set correctly.
5. Return color level control to its normal setting. Leave generator connected if RGB cutoff is to be adjusted.

ADJUSTMENT OF RGB CUTOFF

Note: The G2 control must be adjusted before RGB drive.

1. If main module or CRT has been replaced, set Factory Menu items 43 G Gain and 44 B Gain to the default settings.
2. Set color level to minimum and Tint to midrange.
3. Connect output of an NTSC generator to the antenna input of the receiver. Set the generator output to a pure white signal, chroma off.
4. Access Factory Menu cutoff adjustments. (Factory mode item 00 must be set to 1 to gain access to adjustments).
5. Set menu items 40 R Cut, 41 G Cut, and 42 B Cut to 0. These are the cutoff values.
6. Carefully observe which color is predominant on the CRT screen. DO NOT change the cutoff control for cutoff controls for best white screen display.
7. Set the NTSC generator to a color bar signal and turn chroma off. Check that the TV set displays a good gray scale from black to white. If black level is too high, readjust G2 slightly.
8. Return color level control to normal.

IF AND AUDIO SERVICING

VIDEO DETECTOR

If there is no viewable picture on screen, access the Factory Menu and check default settings for the following items:

35 RF AGC should be at least 40.

39 PIF VCO Set to 63.

Tune in a good off-the-air signal. Place a high-impedance voltmeter at pin 44 of ICX2200. Adjust item 39 PIF VCO to 2.5 volts DC.

AGC DELAY

With a strong noise-free antenna signal, adjust 35 RF AGC to a lower setting until the signal gets noisier. Increase the setting again for a noise-free picture.

Note: If the setting is too high above 50, the tuner input will overload. Under certain conditions, beats may also appear in the picture.

MTS STEREO DECODER ALIGNMENT

The purpose of this procedure is adjusting registers of SONY audio processor CXA2054S (IC1400).

If no audio is present, access the Factory Menu and check the default setting for the following items:

32 AUDIO LEVEL should be set to 48.

Tune in a strong off air signal.

Place a high impedance meter on pin 54 of ICX2200 or from + side of capacitor C1214. Adjust L1205 for 4 volts DC.

Note: Alignment should be accomplished at least five minutes after the set has been turned on.

STEREO LEVEL ADJUSTMENT

1. Apply an RF signal with good video and audio at 400Hz and 100% modulation.
2. Access item 34 AUDIO LEVEL on the Factory Menu.
3. Place a high impedance meter on pin 19 of IC1400 or the positive side of capacitor C1427. Adjust item 34 AUDIO LEVEL to 490 to 500mV AC.
4. Access item #44 A ATT on the Factory Menu. Place a high impedance meter on pin 44 of IC1400. Adjust item 46 A ATT to 490 to 500mV AC.

MTS MODELS: Enter settings in their appropriate locations in the Factory Menu, items 46-50, (starting with the left most two digits for item 46).

Note: Items 46-50 have no effect on MONO models. Do not change default settings.

PURITY & CONVERGENCE SETUP PROCEDURE

PRELIMINARY SETUP

1. Allow the receiver to warm up for 15 to 20 minutes.
2. Degauss the CRT.
3. Connect a crosshatch generator to the receiver and "rough in" the static (center) convergence. Follow the Convergence Procedure.
4. Adjust for best focus.

PURITY ADJUSTMENT

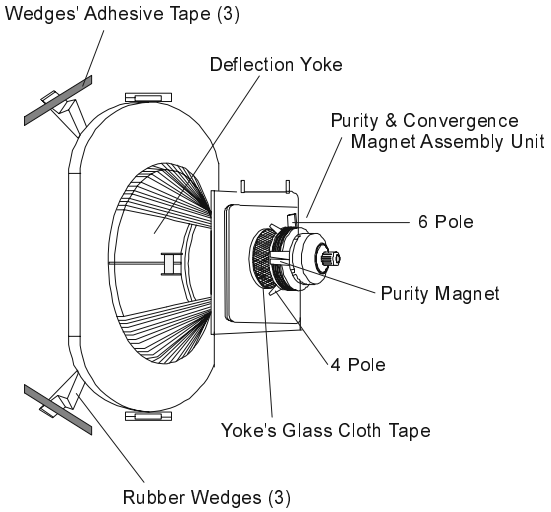
1. Purity tab positioning. Set the 2 pole purity tabs together in the 3 or 9 o'clock positions and the 4- and 6-pole purity tabs together in the 12 or 6 o'clock positions.
2. Move yoke to the maximum forward funnel position.
3. Next, switch the crosshatch generator to a red field.
4. Pull the yoke toward the rear of the CRT neck, keeping it centered, until a red raster is displayed.
5. If the red raster is not displayed as a pure red field, adjust the 2-pole purity tabs until a pure field is obtained.
6. Check for proper yoke tilt setting.

CONVERGENCE ADJUSTMENT

1. Release locking assembly.
2. Connect crosshatch generator to the receiver and adjust static (center) convergence as follows:

   a. Adjust the 4-pole static control by moving the two tabs separately to converge the red and blue lines horizontally. Move the two tabs together around the neck of the CRT (in a 45° arc) from the top-dead-center position to converge the red and blue lines vertically.

   b. After the 4-pole control has been adjusted to superimpose the red and blue lines on top of one another. Use the 6-pole static adjustment to place the converged red and blue lines over the green line. Move the two tabs together around the neck of the CRT (in a 30° arc) from the top-dead-center position to move the lines vertically. Adjusting the two tabs separately will move the converged beam to the left or right. Using a crosshatch generator capable of producing individual fields, adjust the generator to produce a red field. Use the purity tabs to center a red stripe.



CRT Ring Location Purity
Adjust Tabs Beam Movement
for Convergence

Ring Pairs	Rotation direction of Both Tabs	Movement of Red and Blue Beams
6 Pole Convergence R&B over G	Opposite	B R OR B R
	Same	B R OR B R
4 Pole Convergence R over B	Opposite	B R OR B R
	Same	B R OR B R

VERTICAL-TILT WEDGE ADJUSTMENT

The vertical lines at 6 and 12 o'clock are converged by vertically tilting the yoke and inserting a wedge at the top of the yoke until it is firmly seated between the CRT glass and the horizontal coils.

HORIZONTAL-TILT WEDGE ADJUSTMENT

The vertical lines at 3 o'clock and 9 o'clock are converged by horizontally tilting the yoke and inserting a wedge.

Adjust first at 4 or 8 o'clock, whichever has the larger space, until the wedge is firmly seated between the CRT glass and yoke coils. Then, insert the 3rd wedge in the remaining horizontal tilt position until it is firmly seated between the CRT glass and yoke coils. Convergence at the 3 and 9 o'clock should be maintained during this operation.

When the 3 wedges are firmly installed and positioned for acceptable convergence, lock the wedges in place by applying a 2.5 inches long strip of tape across the tabs of each wedge firmly against the CRT glass. The CRT glass surface should be clean and free of dust and other foreign material.

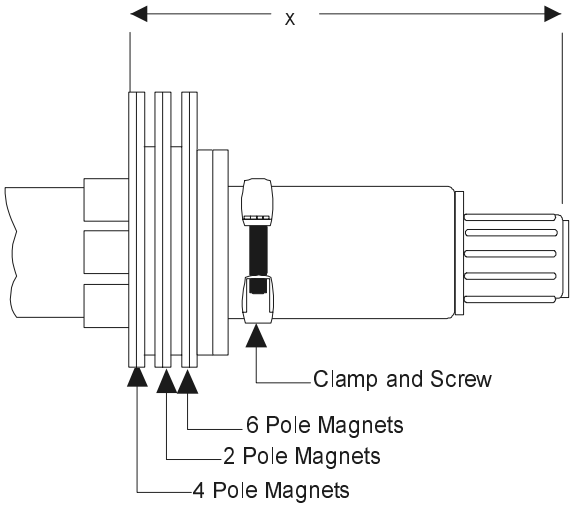
UNUSUAL TILT CASE

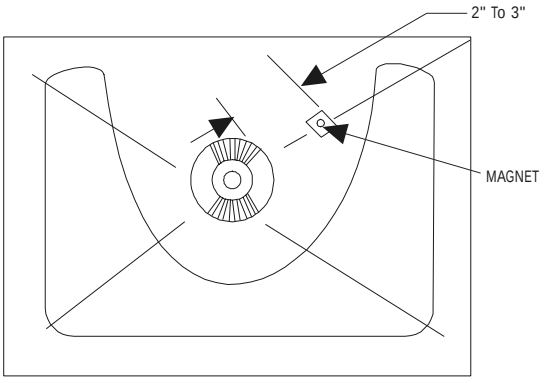
There may be some instances where the picture tube and yoke will require vertical tilt in the opposite (up) direction to obtain convergence. In such cases, insert the vertical tilt wedge at the bottom (6 o'clock) position. Follow through on the horizontal tilt adjustment by using the 2 and 10 o'clock positions and secure each wedge with a piece of tape, as described above.

MODIFICATION

1. Place the magnet on the CRT funnel as shown in the figure displayed below, in the quadrant exhibiting impurity.
2. Rotate the magnet in place to the position shown for best purity.
3. Place a piece of 1/2" by 2" long Fiberglass tape over the magnet to hold it in place.
4. Degauss the CRT once magnet is in place to insure that the magnet is not over the internal magnet shield.

Note: If the magnet is placed over the internal magnet shield, any apparent purity correction will disappear after degaussing. Reposition the correction magnet off the internal shield and degauss again.





MODEL PARTS

C27C35T

049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576-05	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-21	Gnd Strap Assy, CRT
A-19112	CRT Assembly w/Deflection Yoke and Beam Bender,
814-10121	Cabinet Front, TV, Molded Plastic
814-10122	Cabinet Rear, TV, Molded Plastic
820-10587	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C27C35TF

049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576-05	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-21	Gnd Strap Assy, CRT
A-19112	CRT Assembly w/Deflection Yoke and Beam Bender,
814-10121	Cabinet Front, TV, Molded Plastic
814-10122	Cabinet Rear, TV, Molded Plastic
820-10587	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

C27C41T

049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576-05	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-21	Gnd Strap Assy, CRT
A-19112	CRT Assembly w/Deflection Yoke And Beam Bender,
814-10121	Cabinet Front, TV, Molded Plastic
814-10122	Cabinet Rear, TV, Molded Plastic
820-10587	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C27C41TF

049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576-05	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-21	Gnd Strap Assy, CRT
A-19112	CRT Assembly w/Deflection Yoke And Beam Bender
814-10121	Cabinet Front, TV, Molded Plastic
814-10122	Cabinet Rear, TV, Molded Plastic
820-10587	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

C32C35T

009-02167	Module, Main with 1 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-03	Gnd Strap Assy, CRT
A-19276	CRT Assembly w/Deflection Yoke And Beam Bender
814-10123	Cabinet Front, TV, Molded Plastic
814-10124	Cabinet Rear, TV, Molded Plastic
820-10588	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C32C35TF

009-02167	Module, Main with 1 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-03	Gnd Strap Assy, CRT
A-19276	CRT Assembly w/Deflection Yoke And Beam Bender,
814-10123	Cabinet Front, TV, Molded Plastic
814-10124	Cabinet Rear, TV, Molded Plastic
820-10588	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position

MODEL PARTS (continued)

992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

C32C41T

009-02168	Module, Main, with 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-03	Gnd Strap Assy, CRT
A-19276	CRT Assembly w/Deflection Yoke and Beam Bender
814-10123	Cabinet Front, TV, Molded Plastic
814-10124	Cabinet Rear, TV, Molded Plastic
820-10588	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C32C41TF

009-02168	Module, Main, with 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-03	Gnd Strap Assy, CRT
A-19276	CRT Assembly w/Deflection Yoke and Beam Bender
814-10123	Cabinet Front, TV, Molded Plastic
814-10124	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
820-10588	Coil, Degausser
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

C32C84R

009-02168-01A	Module, Main 32V, 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
012-09224-01	Mld Plastic Brkt, IR Sensor
012-10506	Metal Stamp Brkt, Keyboard
012-10542-01	Metal Stamp Brkt, TV Stand
020-04330-33	Coil, Degausser
030-01532	Logo
049-01257-08	Speaker, Oval, 4 X 6
050-01699-20	Connector & Cable Assy, 2.5mm, 5 Contact, 2 Up
057-09069-27	Escutcheon, TV
197-00180-01	Cup, Cabinet Back
206-3603	Instruction Book, Operation Guide
A-17985-17	Cable and Connector Assembly
A-19107	Crt & Yoke Assy, A81AGZ50X02ZN
814-10140	Cover, Back, 32" Traditional
814-10128	Cabinet, Main Assy
F-53908	Line Cord Assy
F-53918	Gnd Strap Assy
F-53919	Keyboard Assy
F-53921	Detector/Amp
F-53937	Connector & Cable
812-10110	Cover, Jack Panel, C-Line
924-10085	Remote MBR3458C

C32C86R

009-02168-01A	Module, Main 32V, 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb
020-04330-33	Coil, Degausser
030-01532-01	Logo, Blk Fleck
043-02290-02	Molded Plastic Housing
049-01257-08	Speaker, Oval, 4 X 6
050-01699-21	Connector & Cable Assy, 2.5mm, 5 Contact, 2 Up
050-02576-01	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
057-09069-28	Escutcheon, TV
192-901	Crystal Window, IR
206-3603	Instruction Book, Operation Guide
A-19107	CRT & Yoke Assy, A81AGZ50X02ZN
814-10141	Cover, Back, 32" Contemporary
814-10129	Cabinet, Main Assy
F-53908	Line Cord Assy
F-53918	Gnd Strap Assy
F-53924	Keyboard Assy
812-10110	Cover, Jack Panel, C-Line
924-10085	Remote MBR3458C

C36C35T

009-02169	Module, Main with 1 PIP, 6 Jacks & Keyboard, MTS, Digital Comb Inv
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18483	CRT Assembly with Deflection Yoke
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, CRT
814-10125	Cabinet Front, TV, Molded Plastic, 36V-1R
814-10126	Cabinet Rear, TV, Molded Plastic
820-10589	Coil, Degausser
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C36C35TF

009-02169	Module, Main with 1 PIP, 6 Jacks & Keyboard, MTS, Digital Comb Inv
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18483	CRT Assembly with Deflection Yoke
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, CRT
814-10125	Cabinet Front, TV, Molded Plastic, 36V-1R
814-10126	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
820-10589	Coil, Degausser
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

C36C35T8

009-02169-01	Module, Main 36V, 1 PIP, 6 Jack & Keyboard, MTS, Digital Comb
020-04330-34	Coil, Degausser
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
206-03590	Instr Book, Operation Guide
A-18639	CRT Assembly, w/Deflection Yoke And Beam Bender, 36V CTV
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, CRT
814-10125	Cabinet Front, TV, Molded Plastic, 36V-1R
814-10126	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C36C41T

009-02170	Module, Main with 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb Inv
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18483	CRT Assembly with Deflection Yoke
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, Crt
814-10125	Cabinet Front, TV, Molded Plastic, 36V-1R
814-10126	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
820-10589	Coil, Degausser
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide

C36C41TF

009-02170	Module, Main with 2 PIP, 6 Jacks & Keyboard, MTS, Digital Comb Inv
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10085	Space Command Transmitter, MBR3458T
206-03591	Instr Book, Operation Guide
A-18483	CRT Assembly with Deflection Yoke
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, Crt
814-10125	Cabinet Front, TV, Molded Plastic, 36V-1R
814-10126	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
820-10589	Coil, Degausser
830-10009	Decorative Item
846-10017	Knob Array, Push Button, 6 Position
992-10035	Lens, IR
901-10005	Addendum, Operation Guide
901-10006	Instr Book, Operation Guide (French)

MODEL PARTS (continued)

C36C41T8

009-02170-01	Module, Main 36V, 2 Pip, 6 Jack & Keyboard, MTS,Digital Comb
020-04330-34	Coil, Degausser
049-01368-03	Speaker, Oval, 6 X 13 cm
050-02361	Connector and Cable Assembly, 35V Ctv Yoke
050-02576	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
206-03591	Instr Book, Operation Guide,
814-10125	Cabinet Front, TV, Molded Plastic
814-10126	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
901-10005	Addendum, Operation Guide
924-10085	Space Command Transmitter, MBR3458T
992-10035	Lens, Ir,
A-18639	CRT Assembly w/Deflection Yoke and Beam Bender
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-04	Gnd Strap Assy, CRT

C36C86R

009-02170-01A	Module, Main 36V, 2 PIP, 6 Jack & Keyboard, MTS, Digital Comb
020-04330-34	Coil, Degausser
030-01532-01	Logo Blk Fleck
049-01257-08	Speaker, Oval, 4 X 6
050-01699-21	Connector & Cable Assy, 2.5 mm, 5 Contact, 2 Up
050-02576-01	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
057-09079-04	Escutcheon, TV
192-901	Crystal Window, IR
197-00180-01	Cup, Cabinet Back
206-3603	Instruction Book, Operation Guide
814-10130	Cabinet, Main Assy
814-10142	Cover, Back, 36" Contemporary
A-18639	CRT Assy, Color 36"
F-53908	Line Cord Assy
F-53924	Keyboard Assy
F-53926	Gnd Strap Assy
812-10110	Cover, Jack Panel, C-Line
924-10085	Remote MBR3458C

LGC29C35TM

049-01368-03	Speaker, Oval, 6 X 13 cm
050-02576-05	Connector & Cable Assy, 2.5mm, 4 Contact, 1 Up
924-10084	Space Command Transmitter, MBR3457T
A-14323	Balun Assembly
A-18681-01	Line Cord Assy with Yeonho Connector
A-18695-21	Gnd Strap Assy, CRT
A-19112	CRT Assembly w/Deflection Yoke and Beam Bender
814-10121	Cabinet Front, TV, Molded Plastic
814-10122	Cabinet Rear, TV, Molded Plastic
814-10127	Cover, Jack Panel, Molded Plastic
820-10587	Coil, Degausser
846-10017	Knob Array, Push Button, 6 Position
901-10005	Addendum, Operation Guide
901-10007	Instr Book, Operation Guide

COMPONENT PARTS LIST REFERENCE CHART

The following information is for models in and out of warranty. The XC models are component level repair.

To Order Parts: call 1-888-3-ZENITH

fax 1-888-6-ZENITH

By Mail: ZENITH NATIONAL PARTS

SALES AND DISTRIBUTION CENTER

P O Box 240007

Huntsville, AL 35824-6407

KEY	
MODEL	INDENTIFIER
C27C35T	A
C27C35TF	A
C27C41T	B
C27C41TF	B
LGC29C35TM	C

COMPONENT PARTS LIST

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	1CV	058-00586-05	Plug, Multiprong, Natural Color, 5 Position
ABC	2F5	050-02806-02	Connector & Cable Assy, 2.5mm, 4 Contact, 2 Up
ABC	3R8	058-00546-03	Plug, Multiprong, 3 Position
ABC	3T8	058-00546-02	Plug, Multiprong, 2 Position
ABC	3Y3	058-00546-04	Plug, Multiprong, 4 Position
ABC	4G9	858-10011	Plug, 0.098P 5 Contact
ABC	5C2	050-02806-03	Connector & Cable Assy, 2.5mm, 4 Contact, 2 Up
ABC	9S4	058-00526-04	Plug, 0.098P 4 Contact
ABC	C0841	022-08310-16	Cap, 1000 mfd 20% 25V, Electro
B	C0842M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
AC	C0842M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C0843	022-08310-12A	Cap, 100 mfd 20% 25V, Electro
ABC	C0851	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C0852M	022-08366-16A	Cap, 4,700 pfd 10% 50V, Ceramic Chip
ABC	C0853	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C0854	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
ABC	C0855	022-08310-15	Cap, 470 mfd 20% 25V, Electro
ABC	C0861	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C0862M	022-08366-16A	Cap, 4,700 pfd 10% 50V, Ceramic Chip
ABC	C0863	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C0864	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
ABC	C0865	022-08310-15	Cap, 470 mfd 20% 25V, Electro
ABC	C1200M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1201M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1202M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1203M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1204M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1205M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1206	022-08312-03A	Cap, 0.47 mfd 20% 50V, Electro
ABC	C1207	022-08312-03A	Cap, 0.47 mfd 20% 50V, Electro
AB	C1208M	022-08370-24A	Cap, 22,000 pfd 10% 16V, Ceramic Chip
ABC	C1209M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1210	022-08309-15A	Cap, 470 mfd 20% 16V, Electro
ABC	C1211M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1212	022-08312-03A	Cap, 0.47 mfd 20% 50V, Electro
ABC	C1213M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C1214	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1215M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C1216M	022-08352-38A	Cap, 120 pfd 5% 50V, Ceramic Chip
ABC	C1217M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1219M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1220	022-08309-13A	Cap, 220 mfd 20% 16V, Electro
ABC	C1221M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1222M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1223M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1224	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C1225M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1226	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
B	C1227M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
B	C1229	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C1230	022-08310-16	Cap, 1000 mfd 20% 25V, Electro
ABC	C1231	022-08312-12A	Cap, 100 mfd 20% 50V, Electro
ABC	C1232M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C1233	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1234M	022-08370-24A	Cap, 22,000 pfd 10% 16V, Ceramic Chip

RC	REF	PART#	DESCRIPTION
B	C1300	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
B	C1301M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
B	C1302	022-08309-15A	Cap, 470 mfd 20% 16V, Electro
B	C1303M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
B	C1304	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
B	C1305M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
B	C1306	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
B	C1307M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
B	C1320	022-08492-01A	Cap, 1 mfd 20% 50V, Nonplzd Electro
B	C1321M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
B	C1322	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
B	C1323M	022-08366-12A	Cap, 2,200 pfd 10% 50V, Ceramic Chip
B	C1324M	022-08366-12A	Cap, 2,200 pfd 10% 50V, Ceramic Chip
ABC	C1401M	022-08370-22A	Cap, 15,000 pfd 10% 16V, Ceramic Chip
ABC	C1402M	022-08366-18A	Cap, 6,800 pfd 10% 50V, Ceramic Chip
ABC	C1403M	022-08370-22A	Cap, 15,000 pfd 10% 16V, Ceramic Chip
ABC	C1404M	022-08366-18A	Cap, 6,800 pfd 10% 50V, Ceramic Chip
ABC	C1405M	022-08370-24A	Cap, 22,000 pfd 10% 16V, Ceramic Chip
ABC	C1406M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1407	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1408	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C1409	022-07669-15A	Cap, 10 mfd 10% 50V, Electro
ABC	C1410	022-08188-05A	Cap, 10 mfd 20% 25V, Nonplzd Electro
ABC	C1411	022-08257-21A	Cap, 5600 pfd 10% 50V, Ceramic Disc
ABC	C1412	022-08049-13A	Cap, 0.012 mfd 10% 50V, Poly
ABC	C1413	022-08188-05A	Cap, 10 mfd 20% 25V, Nonplzd Electro
ABC	C1414	022-07669-14A	Cap, 3.3 mfd 10% 50V, Electro
ABC	C1415	022-08049-20A	Cap, 0.047 mfd 10% 50V, Poly
ABC	C1416	022-08257-17A	Cap, 2700 pfd 10% 50V, Ceramic Disc
ABC	C1417	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C1418	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1419	022-08188-05A	Cap, 10 mfd 20% 25V, Nonplzd Electro
ABC	C1420	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1421	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C1422	022-08188-05A	Cap, 10 mfd 20% 25V, Nonplzd Electro
ABC	C1423	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C1424	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C1425M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1500	022-08310-12A	Cap, 100 mfd 20% 25V, Electro
ABC	C1501M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1502	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C1503	022-08312-03A	Cap, 0.47 mfd 20% 50V, Electro
ABC	C1504M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C1505	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C1506	022-08312-03A	Cap, 0.47 mfd 20% 50V, Electro
ABC	C2100	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C2103	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
ABC	C2104	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
ABC	C2106	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2107	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2108	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
ABC	C2109	022-08310-11A	Cap, 47 mfd 20% 25V, Electro
ABC	C2202M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C2203M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip



Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	C2204M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2205M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2206M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2207	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C2208	022-08312-05A	Cap, 2.2 mfd 20% 50V, Electro
ABC	C2209	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C2210M	022-08370-24A	Cap, 22,000 pfd 10% 16V, Ceramic Chip
ABC	C2213M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2214M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C2215M	022-08366-04A	Cap, 470 pfd 10% 50V, Ceramic Chip
ABC	C2216	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2217M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2218	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2220	022-08049-24A	Cap, 0.10 mfd 10% 50V, Poly
AB	C2221M	022-08368-32	Cap, 100,000 pfd 10% 25V, Ceramic Chip
C	C2222	022-08312A	Cap, 0.1 mfd 20% 50V, Electro
ABC	C2223	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2224M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2225	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2226	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2231M	022-08368-32	Cap, 100,000 pfd 10% 25V, Ceramic Chip
AB	C2237M	022-08352-36A	Cap, 100 pfd 10% 50V, Ceramic Chip
C	C2240M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
C	C2241	022-08312-09A	Cap, 22 mfd 20% 50V, Electro
AB	C2242M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C2243M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2247M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C2248M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C2249M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2250M	022-08352-48A	Cap, 330 pfd 5% 50V, Ceramic Chip
ABC	C2252M	022-08352-38A	Cap, 120 pfd 5% 50V, Ceramic Chip
ABC	C2401M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C2402M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C2403M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C2404M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2405M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2406	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2407M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2408M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2409	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2410	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2411M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C2412M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2413M	022-08352-38A	Cap, 120 pfd 5% 50V, Ceramic Chip
ABC	C2415M	022-08352-42A	Cap, 180 pfd 5% 50V, Ceramic Chip
ABC	C2416M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2417M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2418M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2419M	022-08352-31A	Cap, 62 pfd 5% 50V, Ceramic Chip
ABC	C2420M	022-08366-16A	Cap, 4,700 pfd 10% 50V, Ceramic Chip
ABC	C2421M	022-08352-24A	Cap, 33 pfd 5% 50V, Ceramic Chip
ABC	C2422	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2424M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2425	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2434	022-08312-08A	Cap, 10 mfd 20% 50V, Electro

RC	REF	PART#	DESCRIPTION
ABC	C2435M	022-08352-18A	Cap, 18 pfd 5% 50V, Ceramic Chip
ABC	C2436	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C2438	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C2439	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C2500M	022-08352-38A	Cap, 120 pfd 5% 50V, Ceramic Chip
ABC	C2501M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C2502M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C2503M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C2504M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C2505M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2506M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2507M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2508	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2509M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2510M	022-08352-31A	Cap, 62 pfd 5% 50V, Ceramic Chip
ABC	C2511M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C2512M	022-08352-22A	Cap, 27 pfd 5% 50V, Ceramic Chip
ABC	C2517M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2518M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2519	022-08312-05A	Cap, 2.2 mfd 20% 50V, Electro
ABC	C2520	022-08312-05A	Cap, 2.2 mfd 20% 50V, Electro
ABC	C2521M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2522	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2523M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2524	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2525M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2526M	022-08352-31A	Cap, 62 pfd 5% 50V, Ceramic Chip
ABC	C2527M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2528	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2529M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C2530M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2531M	022-08366-20	Cap, 10,000 pfd 10% 50V, Ceramic Chip
ABC	C2534M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2537M	022-08352-44A	Cap, 220 pfd 5% 50V, Ceramic Chip
ABC	C2800M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2801M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2802M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2803M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2804M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2805M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C2901	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2902	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2903	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2904	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2905	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2906	022-08312-08A	Cap, 10 mfd 20% 50V, Electro

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COMPONENT PARTS LIST

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	C2907	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C2908	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C2909M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C2910M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C2911M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C2913	022-08309-11A	Cap, 47 mfd 20% 16V, Electro
ABC	C2914M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C2915M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C2916M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C3200M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C3202	022-08257-08A	Cap, 470 pfd 10% 50V, Ceramic Disc
ABC	C3207	022-08049-16A	Cap, 0.022 mfd 10% 50V, Poly
ABC	C3219	022-07786C	Cap, 1000 pfd 10% 500V, Ceramic Disc
ABC	C3220	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	C3611	022-08310-16	Cap, 1000 mfd 20% 25V, Electro
ABC	C3613	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	C3614	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	C3615	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	C3803	022-08309-12A	Cap, 100 mfd 20% 16V, Electro
ABC	C3805	022-08309-13A	Cap, 220 mfd 20% 16V, Electro
ABC	C3806	022-08310-13A	Cap, 220 mfd 20% 25V, Electro
ABC	C3807	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C3808	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	C3809	022-08309-13A	Cap, 220 mfd 20% 16V, Electro
ABC	C5100	022-07877-12	Cap, 0.1 mfd 10% 250V, Poly
ABC	C5101	022-08227-15A	Cap, 0.22 mfd 5% 50V, Poly
ABC	C5102M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C5103M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C5104M	022-08352-14A	Cap, 12 pfd 5% 50V, Ceramic Chip
ABC	C5105	022-08318-04A	Cap, 1 mfd 20% 350V, Electro
ABC	C5109	022-07523-01B	Cap, 0.01 mfd +80 % & -20 % 2000V, Ceramic Disc
ABC	C6001M	022-08352-38A	Cap, 120 pfd 5% 50V, Ceramic Chip
ABC	C6002M	022-08366-12A	Cap, 2,200 pfd 10% 50V, Ceramic Chip
ABC	C6003M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6004M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6005M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6006M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6007M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6009M	022-08366-04A	Cap, 470 pfd 10% 50V, Ceramic Chip
ABC	C6010M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6011M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6012	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C6013M	022-08352-44A	Cap, 220 pfd 5% 50V, Ceramic Chip
ABC	C6014M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C6015	022-08312-04A	Cap, 1 mfd 20% 50V, Electro
ABC	C6016M	022-08366-08A	Cap, 1,000 pfd 10% 50V, Ceramic Chip
ABC	C6018M	022-08376-32A	Cap, 100,000 pfd +80% & -20% 16V, Ceramic Chip
ABC	C6019M	022-08352-19A	Cap, 20 pfd 5% 50V, Ceramic Chip
ABC	C6020M	022-08352-19A	Cap, 20 pfd 5% 50V, Ceramic Chip
ABC	C6021M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C6022	022-08309-13A	Cap, 220 mfd 20% 16V, Electro
ABC	C6023M	022-08352-32A	Cap, 68 pfd 5% 50V, Ceramic Chip
ABC	C6024M	022-08352-32A	Cap, 68 pfd 5% 50V, Ceramic Chip
ABC	C6025M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C6026	022-08312-05A	Cap, 2.2 mfd 20% 50V, Electro

RC	REF	PART#	DESCRIPTION
ABC	C6027M	022-08352-36A	Cap, 100 pfd 5% 50V, Ceramic Chip
ABC	C6028M	022-08366-04A	Cap, 470 pfd 10% 50V, Ceramic Chip
ABC	C6030M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C6031M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	C6032	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C6033M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6034M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6035M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6036M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6037M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6038M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6041M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6045M	022-08352-19A	Cap, 20 pfd 5% 50V, Ceramic Chip
ABC	C6046M	022-08366-12A	Cap, 2,200 pfd 10% 50V, Ceramic Chip
ABC	C6048M	022-08366A	Cap, 220 pfd 10% 50V, Ceramic Chip
ABC	C6049M	022-08352-32A	Cap, 68 pfd 5% 50V, Ceramic Chip
ABC	C6050M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6051M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6052M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6053M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6054M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6055M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6056M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6057M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6058M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6059M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6060M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6061M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6062M	022-08352-28A	Cap, 47 pfd 5% 50V, Ceramic Chip
ABC	C6064	022-08312-07A	Cap, 4.7 mfd 20% 50V, Electro
ABC	C6065M	022-08368-20A	Cap, 10,000 pfd 10% 25V, Ceramic Chip
ABC	CR2201	224-00027A	Crystal, Quartz, 3.579 Mhz
ABC	CR2202	224-00178	Resonator, Ceramic, 503 khz
ABC	CR2500	224-00257	Crystal, Quartz, 27 Mhz
ABC	CRT0001	078-03394-09	Socket, CRT
ABC	CRY6001	224-00074-02A	Crystal, Quartz, 8 Mhz
ABC	CX2102	022-08311-13	Cap, 220 mfd 20% 35V, Electro
ABC	CX2105	022-08311-12A	Cap, 100 mfd 20% 35V, Electro
ABC	CX2110	022-08310-16	Cap, 1000 mfd 20% 25V, Electro
ABC	CX3000	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	CX3001	022-08312-08A	Cap, 10 mfd 20% 50V, Electro
ABC	CX3002	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	CX3201	022-08315-05A	Cap, 2.2 mfd 20% 160V, Electro
ABC	CX3203	022-08231-10	Cap, 0.33 mfd 5% 200V, Polyprop
ABC	CX3204	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	CX3205	022-08229-27	Cap, 0.013 mfd 3% 1600VDC, Polyprop
ABC	CX3206	022-08310-12A	Cap, 100 mfd 20% 25V, Electro
ABC	CX3208	022-07786-17C	Cap, 2200 pfd 10% 500V, Ceramic Disc
ABC	CX3209	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3211	022-08386-08	Cap, 1000 pfd 10% 2000V, Ceramic Disc
ABC	CX3212	022-08386-05	Cap, 560 pfd 10% 2000V, Ceramic Disc
ABC	CX3213	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
ABC	CX3214	022-08317-08	Cap, 10 mfd 20% 250V, Electro
AC	CX3215	022-08386-05	Cap, 560 pfd 10% 2000V, Ceramic Disc
ABC	CX3216	022-08159	Cap, 0.68 mfd 10% 200V, Poly
ABC	CX3218	022-08227-04A	Cap, 0.022 mfd 5% 50V, Poly



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COMPONENT PARTS LIST

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
B	CX3221	022-08312-11A	Cap, 47 mfd 20% 50V, Electro
ABC	CX3222	022-07786-10C	Cap, 470 pfd 10% 500V, Ceramic Disc
B	CX3400	022-07431-06B	Cap, 0.0047 mfd 20%, Ceramic Disc
ABC	CX3401	022-08540	Cap, 0.1 mfd 20% 250VAC, Poly-Polyprop
ABC	CX3402	022-07431-06B	Cap, 0.0047 mfd 20%, Ceramic Disc
ABC	CX3403	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3404	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3405	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3406	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3407	022-08444-09	Cap, 330 mfd 20% 200V, Electro
ABC	CX3505	091-02053	Wire, Solid, Bare, 22 Ga Copper
ABC	CX3601	022-08386-12	Cap, 2200 pfd 10% 2000V, Ceramic Disc
ABC	CX3602	022-08386-08	Cap, 1000 pfd 10% 2000V, Ceramic Disc
ABC	CX3603	022-07786C	Cap, 1000 pfd 10% 500V, Ceramic Disc
ABC	CX3605	022-08310-13A	Cap, 220 mfd 20% 25V, Electro
ABC	CX3607	022-08310-11A	Cap, 47 mfd 20% 25V, Electro
ABC	CX3610	022-08444-07	Cap, 220 mfd 20% 200V, Electro
ABC	CX3612	022-08310-17	Cap, 2200 mfd 20% 25V, Electro
ABC	CX3701	022-07811A	Cap, 1000 pfd 10% 1000V, Ceramic Disc
ABC	CX3702	022-08242-34A	Cap, 100 pfd 10% 50V, Ceramic Disc
ABC	CX3801	022-08310-06	Cap, 1000 mfd 20% 25V, Electro
ABC	CX3804	022-08310-15	Cap, 470 mfd 20% 25V, Electro
ABC	D2201	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2202	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2203	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2204	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2205	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2207	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2208	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2209	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2210	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2211	103-00461A	Diode, Fast Switching, High Conductance
ABC	D2212	103-00461A	Diode, Fast Switching, High Conductance
ABC	D3802	103-00461A	Diode, Fast Switching, High Conductance
AC	D6001	103-00461A	Diode, Fast Switching, High Conductance
AC	D6002	103-00461A	Diode, Fast Switching, High Conductance
ABC	DAG1	A-19197	Grounding Assy, Wire &Terminal, White, Dag
ABC	DAG2	A-19197	Grounding Assy, Wire &Terminal, White, Dag
ABC	DX2100	103-00347-03A	Diode, Low Voltage General, Silicon
ABC	DX2101	103-00461A	Diode, Fast Switching, High Conductance
ABC	DX2102	103-00461A	Diode, Fast Switching, High Conductance
ABC	DX3000	103-00461A	Diode, Fast Switching, High Conductance
ABC	DX3001	103-00344-06A	Diode, Low Voltage General
ABC	DX3200	103-00347-03A	Diode, Low Voltage General, Silicon
ABC	DX3201	103-00344-06A	Diode, Low Voltage General
ABC	DX3203	103-00461A	Diode, Fast Switching, High Conductance
ABC	DX3204	103-00344-06A	Diode, Low Voltage General
ABC	DX3205	103-00339-04A	Diode, Low Voltage General, Silicon
ABC	DX3401	103-00588A	Diode, Low Voltage General
ABC	DX3402	103-00588A	Diode, Low Voltage General
ABC	DX3403	103-00588A	Diode, Low Voltage General
ABC	DX3404	103-00588A	Diode, Low Voltage General
ABC	DX3601	103-00461A	Diode, Fast Switching, High Conductance
ABC	DX3602	103-00344-06A	Diode, Low Voltage General
ABC	DX3603	103-00344-06A	Diode, Low Voltage General
ABC	DX3610	103-00589-01	Diode, Fast Recovery Rectifier, 600 PIV
ABC	DX3611	103-00589-01	Diode, Fast Recovery Rectifier, 600 PIV
ABC	DX3612	103-00589-01	Diode, Fast Recovery Rectifier, 600 PIV
ABC	DX3901	103-00461A	Diode, Fast Switching, High Conductance
ABC	EX3401	A-19238	Spark Gap Assy
ABC	FX3401	136-00114-23C	Fuse, Normal Lag, 4 Amp 250V
ABC	FX3601	136-00148-23C	Fuse, Normal Lag, 3 Amp 250V
ABC	FX3602	136-00148-23C	Fuse, Normal Lag, 3 Amp 250V
ABC	IC1400	221-01127	I/C, MTS Stereo Decoder/Vol.Limiter and Audio Processor
ABC	IC2400	221-01449	I/C, Digital Comb Filter
ABC	IC2500	221-01439	I/C, PIP Controller
ABC	IC2900	221-01438	I/C, Audio Video Switch
ABC	IC5100	126-03749	Heat Sink, IC, Video Output
ABC	IC5100	221-01459	I/C, Video Amplifier, Triple Output
ABC	IC6000	126-03446-02	Shield, Emi, Microprocessor
ABC	IC6000	905-10525	I/C, 8-Bit Microcomputer,w/Caption Decoder
ABC	IC6001	221-00745-04	I/C, 4K Bit Serial EEPROM
ABC	IC6002	221-01177A	I/C, System Reset
ABC	IC800	221-00598-01	I/C, Audio Power Amplifier, 3.5W/2Channel
ABC	IC800	926-10053	Heat Sink, IC, Audio Amplifier
ABC	ICX2100	126-03746-01	Heat Sink, Transistor, Horizontal Deflection
ABC	ICX2100	221-00992-01	I/C, Vertical Deflection
ABC	ICX2200	221-01165	I/C, I2C Bus Control NTSC
ABC	ICX3612	126-03745	Heat Sink, IC, Main Regulator
ABC	ICX3612	223-00060-03	I/C, Thick Film, Hybrid, Voltage Regulator
ABC	ICX3701	162-00028-01	Opto-Coupler
ABC	ICX3702	221-00265-03A	I/C, Adjustable Shunt Regulator
ABC	ICX3801	126-03748	Heat Sink, IC, Horizontal Deflection
ABC	ICX3801	221-00213-09	I/C, 9 Volt, 1 Amp, Linear, Regulator
ABC	ICX3802	126-03748	Heat Sink, IC, Horizontal Deflection
ABC	ICX3802	221-00213	I/C, 5 Volt, 1 Amp, Linear, Regulator
ABC	ICX3803	221-00167-01A	I/C, Voltage Regulator, 5V 100ma
ABC	IR6000	012-10917	Metal Stamping, Brkt, IR Detector Mounting
ABC	IR6000	162-00046-04	IR Detector
ABC	J0001M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	J0002M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	J0003M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	J0004M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	J0005M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	J0006M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	JP001	A-19267	Jack Assy, 5 Phono/1 Y/C
ABC	JP002	A-19268	Jack Assy, 3 Phono 1 Y/C
ABC	KX3901	195-00161	Relay, SPST, 12 VDC Coil
C	L1200	020-04277-09A	Coil, 0.82 Microhenry, RCF, Fixed
ABC	L1201	020-04278B	Coil, RCF, Tunable, 7.0 mm
AB	L1202	020-04277-39A	Coil, 10 Microhenry, RCF, Fixed
C	L1203	020-03907-12A	Coil, 10 Microhenry, RCF, Fixed
ABC	L1204	020-04277-23A	Coil, 12 Microhenry, RCF, Fixed
ABC	L1205	020-03907-25A	Coil, 120 Microhenry, RCF, Fixed
ABC	L1206	091-02053	Wire, Solid, Bare, 22 Ga Copper
ABC	L1207	020-04506A	Coil, RCF, Fixed, Shielded
ABC	L1230	091-02053	Wire, Solid, Bare, 22 Ga Copper
ABC	L1300	020-04277-39A	Coil, 10 Microhenry, RCF, Fixed
ABC	L1301	020-04277-39A	Coil, 10 Microhenry, RCF, Fixed
ABC	L1302	020-03907-21A	Coil, 56 Microhenry, RCF, Fixed
ABC	L2201	020-04129-22	Coil, 15 Microhenry, RCF, Fixed



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COMPONENT PARTS LIST

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	L2202	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
B	L2400	020-04277-42A	Coil, 18 Microhenry, RCF, Fixed
B	L2401	020-04277-42A	Coil, 18 Microhenry, RCF, Fixed
B	L2402	020-04129-32	Coil, 100 Microhenry, RCF, Fixed
ABC	L2403	020-04129-32	Coil, 100 Microhenry, RCF, Fixed
ABC	L2404	020-04277-28A	Coil, 33 Microhenry, RCF, Fixed
ABC	L2406	020-04277-22A	Coil, 10 Microhenry, RCF, Fixed
ABC	L2407	020-04129-22	Coil, 15 Microhenry, RCF, Fixed
ABC	L2408	020-04277-22A	Coil, 10 Microhenry, RCF, Fixed
ABC	L2409	091-02053	Wire, Solid, Bare, 22 Ga Copper
ABC	L2500	020-04277-26A	Coil, 22 Microhenry, RCF, Fixed
ABC	L2503	020-04277-39A	Coil, 10 Microhenry, RCF, Fixed
ABC	L2504	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	L2505	020-03907-21A	Coil, 56 Microhenry, RCF, Fixed
ABC	L2900	020-04277-42A	Coil, 18 Microhenry, RCF, Fixed
ABC	L2901	020-04277-37A	Coil, 180 Microhenry, RCF, Fixed
ABC	L2902	091-02053	Wire, Solid, Bare, 22 Ga Copper
ABC	L3801	020-04462-20A	Coil, 47 Microhenry, RCF, Fixed
ABC	L3802	020-04462-20A	Coil, 47 Microhenry, RCF, Fixed
ABC	L3803	020-04462-20A	Coil, 47 Microhenry, RCF, Fixed
ABC	L3804	020-03907-21A	Coil, 56 Microhenry, RCF, Fixed
B	L3805	020-03907-21A	Coil, 56 Microhenry, RCF, Fixed
ABC	L3806	020-03907-21A	Coil, 56 Microhenry, RCF, Fixed
ABC	L5100	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	L5101	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	L5102	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	L5103	149-00583-01	Core, Ferrite, Bead
ABC	L6001	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	L6003	020-04277-10A	Coil, 1.0 Microhenry, RCF, Fixed
ABC	L6004	020-04129-16	Coil, 4.7 Microhenry, RCF, Fixed
ABC	LX3200	020-04073-03	Coil, RCF
ABC	LX3201	149-00540-01	Core, Ferrite
ABC	LX3401	095-04630-03	Transformer, Line Choke
ABC	LX3601	149-00540-01	Core, Ferrite
ABC	LX3604	149-00540-01	Core, Ferrite
ABC	LX3605	149-00540-01	Core, Ferrite
ABC	LX3606	149-00540-01	Core, Ferrite
ABC	Q0800	121-01310A	Transistor, NPN, Silicon
ABC	Q1200	121-01261A	Transistor, NPN, Silicon
ABC	Q1201	121-01310A	Transistor, NPN, Silicon
ABC	Q1202	121-01310A	Transistor, NPN, Silicon
ABC	Q1300	121-01311A	Transistor, PNP, Silicon
ABC	Q1320	121-01310A	Transistor, NPN, Silicon
ABC	Q1321	121-01311A	Transistor, PNP, Silicon
ABC	Q1500	121-01310A	Transistor, NPN, Silicon
ABC	Q1501	121-01310A	Transistor, NPN, Silicon
B	Q1502	121-01310A	Transistor, NPN, Silicon
B	Q2204	121-01310A	Transistor, NPN, Silicon
B	Q2205	121-01311A	Transistor, PNP, Silicon
ABC	Q2207	121-01310A	Transistor, NPN, Silicon
ABC	Q2208	121-01311A	Transistor, PNP, Silicon
ABC	Q2400	121-01310A	Transistor, NPN, Silicon
ABC	Q2401	121-01310A	Transistor, NPN, Silicon
ABC	Q2402	121-01310A	Transistor, NPN, Silicon
ABC	Q2403	121-01310A	Transistor, NPN, Silicon
ABC	Q2404	121-01310A	Transistor, NPN, Silicon

RC	REF	PART#	DESCRIPTION
ABC	Q2405	121-01310A	Transistor, NPN, Silicon
ABC	Q2406	121-01310A	Transistor, NPN, Silicon
ABC	Q2501	121-01310A	Transistor, NPN, Silicon
ABC	Q2502	121-01310A	Transistor, NPN, Silicon
ABC	Q2900	121-01310A	Transistor, NPN, Silicon
ABC	Q2901	121-01310A	Transistor, NPN, Silicon
ABC	Q2902	121-01310A	Transistor, NPN, Silicon
ABC	Q2903	121-01310A	Transistor, NPN, Silicon
ABC	Q3200	121-01310A	Transistor, NPN, Silicon
ABC	Q3201	121-01340A	Transistor, NPN, Silicon
ABC	Q3801	121-01102A	Transistor, PNP, Silicon
ABC	Q3802	121-01340A	Transistor, NPN, Silicon
ABC	Q3901	121-01340A	Transistor, NPN, Silicon
ABC	Q6001	121-01310A	Transistor, NPN, Silicon
ABC	Q6002	121-01310A	Transistor, NPN, Silicon
ABC	QX3202	121-01383	Transistor, NPN, Silicon
ABC	QX3202	126-03746	Heat Sink, Transistor, Horizontal Deflection
ABC	R0843	063-10235-60	Resistor, Film, 330 Ohm 5% 1/4W
ABC	R0851M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R0852M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R0853	063-10235-12	Resistor, Film, 3.3 Ohm 5% 1/4W
ABC	R0854M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R0861M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R0862M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R0863	063-10235-12	Resistor, Film, 3.3 Ohm 5% 1/4W
ABC	R0864M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R1200M	063-11059-75A	Resistor, Chip, 12K Ohm 5% 1/10W
ABC	R1201M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R1202M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1203M	063-11059-39A	Resistor, Chip, 390 Ohm 5% 1/10W
ABC	R1204M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R1205M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1206M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1207M	063-11059-09A	Resistor, Chip, 22 Ohm 5% 1/10W
ABC	R1208M	063-11059-13A	Resistor, Chip, 33 Ohm 5% 1/10W
ABC	R1209M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1210M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R1211M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R1212M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	R1213M	063-11059-46A	Resistor, Chip, 750 Ohm 5% 1/10W
ABC	R1216M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1218M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1220M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
AB	R1221M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R1222M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R1223M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R1224M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R1225M	063-11059-46A	Resistor, Chip, 75 Ohm 5% 1/10W
ABC	R1226M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R1227M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R1228M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
ABC	R1229M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R1230M	063-11059-87A	Resistor, Chip, 39K Ohm 5% 1/10W
ABC	R1231M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R1289	063-10235-60	Resistor, Film, 330 Ohm 5% 1/4W
ABC	R1300M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W



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SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	R1301M	063-11059-41A	Resistor, Chip, 470 Ohm 5% 1/10W
ABC	R1302M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1304M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
B	R1320M	063-11059-37A	Resistor, Chip, 330 Ohm 5% 1/10W
B	R1321M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
B	R1322M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
B	R1323M	063-11059-75A	Resistor, Chip, 12K Ohm 5% 1/10W
B	R1324M	063-11059-63A	Resistor, Chip, 3.9K Ohm 5% 1/10W
B	R1325M	063-11059-93A	Resistor, Chip, 68K Ohm 5% 1/10W
B	R1326M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
B	R1401M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
B	R1402M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
B	R1403M	063-11060-21A	Resistor, Chip, 1 Meg Ohm 5% 1/10W
B	R1404M	063-11059-63A	Resistor, Chip, 3.9K Ohm 5% 1/10W
B	R1405M	063-11060-21A	Resistor, Chip, 1 Meg Ohm 5% 1/10W
ABC	R1406M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
ABC	R1407M	063-11059-60A	Resistor, Chip, 3K Ohm 5% 1/10W
ABC	R1408M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R1409M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R1409M	063-11059-71A	Resistor, Chip, 8.2K Ohm 5% 1/10W
ABC	R1410M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R1411M	063-11244-76A	Resistor, Chip, 61.9K Ohm 1% 1/10W
ABC	R1500M	063-11059-80A	Resistor, Chip, 20K Ohm 5% 1/10W
B	R1501M	063-11060-04A	Resistor, Chip, 200K Ohm 5% 1/10W
AC	R1502	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R1503M	063-11059-41A	Resistor, Chip, 470 Ohm 5% 1/10W
ABC	R1504M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1505M	063-11059-37A	Resistor, Chip, 330 Ohm 5% 1/10W
ABC	R1506	063-10235-68	Resistor, Film, 680 Ohm 5% 1/4W
ABC	R1507	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R1508M	063-11059-41A	Resistor, Chip, 470 Ohm 5% 1/10W
ABC	R1509M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R1510M	063-11059-37A	Resistor, Chip, 330 Ohm 5% 1/10W
ABC	R1511	063-10235-68	Resistor, Film, 680 Ohm 5% 1/4W
ABC	R2100M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R2101	063-10235-96	Resistor, Film, 10K Ohm 5% 1/4W
ABC	R2102	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R2103	063-10236-26	Resistor, Film, 180K Ohm 5% 1/4W
ABC	R2104M	063-11060-01A	Resistor, Chip, 150K Ohm 5% 1/10W
ABC	R2105	063-10236-41	Resistor, Film, 750K Ohm 5% 1/4W
ABC	R2106M	063-11059-89A	Resistor, Chip, 47K Ohm 5% 1/10W
ABC	R2107	063-10236-10	Resistor, Film, 39K Ohm 5% 1/4W
ABC	R2108M	063-11059-89A	Resistor, Chip, 47K Ohm 5% 1/10W
ABC	R2109M	063-11059-77A	Resistor, Chip, 15K Ohm 5% 1/10W
ABC	R2110M	063-11059-77A	Resistor, Chip, 15K Ohm 5% 1/10W
ABC	R2111M	063-11059-39A	Resistor, Chip, 390 Ohm 5% 1/10W
ABC	R2112M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2113	063-10235-86	Resistor, Film, 3.9K Ohm 5% 1/4W
ABC	R2114	063-10235-10	Resistor, Film, 2.7 Ohm 5% 1/4W
ABC	R2117	063-10235-92	Resistor, Film, 6.8K Ohm 5% 1/4W
ABC	R2120	063-10235-94	Resistor, Film, 8.2K Ohm 5% 1/4W
ABC	R2121M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R2122M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R2201M	063-11059-27A	Resistor, Chip, 120 Ohm 5% 1/10W
ABC	R2210	063-10235-66	Resistor, Film, 560 Ohm 5% 1/4W
ABC	R2212	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W

RC	REF	PART#	DESCRIPTION
ABC	R2213	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R2214M	063-11059-83A	Resistor, Chip, 27K Ohm 5% 1/10W
ABC	R2216	063-10235-24	Resistor, Film, 10 Ohm 5% 1/4W
ABC	R2218	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R2220	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R2222	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R2223	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R2224M	063-11059-77A	Resistor, Chip, 15K Ohm 5% 1/10W
ABC	R2225M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R2226M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R2227M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2228	063-10235-64	Resistor, Film, 470 Ohm 5% 1/4W
ABC	R2229M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R2230M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
ABC	R2231M	063-11059-39A	Resistor, Chip, 390 Ohm 5% 1/10W
ABC	R2232	063-10235-76	Resistor, Film, 1.5K Ohm 5% 1/4W
ABC	R2233	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R2234M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R2235	063-10235-69	Resistor, Film, 750 Ohm 5% 1/4W
ABC	R2236M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2237M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R2238M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R2239M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
AB	R2240M	063-11059-39A	Resistor, Chip, 390 Ohm 5% 1/10W
C	R2241M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R2242M	063-11060-13A	Resistor, Chip, 470K Ohm 5% 1/10W
ABC	R2244M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
ABC	R2247M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2249M	063-11059-87A	Resistor, Chip, 39K Ohm 5% 1/10W
ABC	R2250M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2251M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
ABC	R2255M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	R2256M	063-11059-48A	Resistor, Chip, 910 Ohm 5% 1/10W
ABC	R2257M	063-11059-48A	Resistor, Chip, 910 Ohm 5% 1/10W
ABC	R2258M	063-11059-48A	Resistor, Chip, 910 Ohm 5% 1/10W
ABC	R2260M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
C	R2263	063-10236-41	Resistor, Film, 750K Ohm 5% 1/4W
AB	R2264	063-10236-44	Resistor, Film, 1M Ohm 5% 1/4W
ABC	R2265M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R2400M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R2401M	063-11059-81A	Resistor, Chip, 22K Ohm 5% 1/10W
ABC	R2402M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
C	R2403M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
AB	R2404M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2405M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R2406M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R2407M	063-11059-67A	Resistor, Chip, 5.6K Ohm 5% 1/10W
ABC	R2408M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
ABC	R2409M	063-11059-55A	Resistor, Chip, 1.8K Ohm 5% 1/10W
ABC	R2410M	063-11059-81A	Resistor, Chip, 22K Ohm 5% 1/10W
ABC	R2411M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R2412M	063-11059-91A	Resistor, Chip, 56K Ohm 5% 1/10W
ABC	R2413M	063-11059-68A	Resistor, Chip, 6.2K Ohm 5% 1/10W
ABC	R2414M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R2415M	063-11059-53A	Resistor, Chip, 1.5K Ohm 5% 1/10W
ABC	R2417M	063-11059-47A	Resistor, Chip, 820 Ohm 5% 1/10W



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SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

RC	REF	PART#	DESCRIPTION
ABC	R2418M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2419M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2420M	063-11059-81A	Resistor, Chip, 22K Ohm 5% 1/10W
ABC	R2421M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2424M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2425M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2426M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2427M	063-11059-91A	Resistor, Chip, 56K Ohm 5% 1/10W
ABC	R2428M	063-11059-61A	Resistor, Chip, 3.3K Ohm 5% 1/10W
ABC	R2429M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R2430M	063-11059-89A	Resistor, Chip, 47K Ohm 5% 1/10W
AB	R2431M	063-11059-51A	Resistor, Chip, 1.2K Ohm 5% 1/10W
C	R2434M	063-11059-81A	Resistor, Chip, 22K Ohm 5% 1/10W
ABC	R2435M	063-11059-51A	Resistor, Chip, 1.2K Ohm 5% 1/10W
ABC	R2501M	063-11059-80A	Resistor, Chip, 20K Ohm 5% 1/10W
ABC	R2503	063-10235-88	Resistor, Film, 4.7K Ohm 5% 1/4W
ABC	R2504M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2505M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2506M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2507M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2508M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2509M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2510M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2511M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2512	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R2514M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2516M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2518M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2520M	063-11059-47A	Resistor, Chip, 820 Ohm 5% 1/10W
ABC	R2521M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R2522M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	R2524M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2525M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2526M	063-11059-57A	Resistor, Chip, 2.2 Ohm 5% 1/10W
ABC	R2527M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2528M	063-11059-57A	Resistor, Chip, 2.2 Ohm 5% 1/10W
ABC	R2529M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2530M	063-11059-57A	Resistor, Chip, 2.2 Ohm 5% 1/10W
ABC	R2800	063-10235-90	Resistor, Film, 5.6K Ohm 5% 1/4W
ABC	R2801	063-10235-90	Resistor, Film, 5.6K Ohm 5% 1/4W
ABC	R2802	063-10235-90	Resistor, Film, 5.6K Ohm 5% 1/4W
ABC	R2803	063-10235-90	Resistor, Film, 5.6K Ohm 5% 1/4W
ABC	R2900M	063-11059-27A	Resistor, Chip, 120 Ohm 5% 1/10W
ABC	R2901M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R2902M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R2903M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R2904M	063-11059A	Resistor, Chip, 0 Ohm 5% 1/10W
ABC	R2905M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2906M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
ABC	R2907M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2908M	063-11059-45A	Resistor, Chip, 680 Ohm 5% 1/10W
ABC	R2909	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W
ABC	R2910	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W
ABC	R2911	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W
ABC	R2912	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W
ABC	R2913	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W

RC	REF	PART#	DESCRIPTION
ABC	R2914	063-10235-45	Resistor, Film, 75 Ohm 5% 1/4W
ABC	R2915M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
ABC	R2916M	063-11059-17A	Resistor, Chip, 47 Ohm 5% 1/10W
ABC	R2917	063-10235-40	Resistor, Film, 47 Ohm 5% 1/4W
ABC	R2918	063-10235-40	Resistor, Film, 47 Ohm 5% 1/4W
ABC	R2919	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R2920	063-10235-40	Resistor, Film, 47 Ohm 5% 1/4W
ABC	R2921M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R2925	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R2926M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R2927M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2928M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2929M	063-11059-39A	Resistor, Chip, 390 Ohm 5% 1/10W
ABC	R2930	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R2931M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R2932M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R2933M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	R2934M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R2935	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R3200M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R3201M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R3801M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R3802	063-10235-80	Resistor, Film, 2.2K Ohm 5% 1/4W
ABC	R3803	063-10235-88	Resistor, Film, 4.7K Ohm 5% 1/4W
ABC	R3901	063-10235-88	Resistor, Film, 4.7K Ohm 5% 1/4W
ABC	R3902	063-10243-48	Resistor, Film, 100 Ohm 5% 1/2W
ABC	R5100	063-10244-28	Resistor, Film, 220K Ohm 5% 1/2W
ABC	R5101	063-10235-78	Resistor, Film, 1.8K Ohm 5% 1/4W
ABC	R5102	063-11088-20	Resistor, Film, 100K Ohm 5% 1/2W
ABC	R5103	063-11088-20	Resistor, Film, 100K Ohm 5% 1/2W
ABC	R5104	063-11088-20	Resistor, Film, 100K Ohm 5% 1/2W
ABC	R5105M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R5106M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R5107M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R5108M	063-11059-48A	Resistor, Chip, 910 Ohm 5% 1/10W
ABC	R5109	063-10235-71	Resistor, Film, 910 Ohm 5% 1/4W
ABC	R5110M	063-11059-48A	Resistor, Chip, 910 Ohm 5% 1/10W
ABC	R5111	063-10243-48	Resistor, Film, 100 Ohm 5% 1/2W
ABC	R5112	063-10243-72	Resistor, Film, 1K Ohm 5% 1/2W
ABC	R5115	063-10243-72	Resistor, Film, 1K Ohm 5% 1/2W
ABC	R5116	063-10243-72	Resistor, Film, 1K Ohm 5% 1/2W
AB	R5123	063-10243-72	Resistor, Film, 1K Ohm 5% 1/2W
C	R5128	091-02053	Wire, Solid, Bare, 22 Ga Copper
AB	R5130M	063-11059-85A	Resistor, Chip, 33K Ohm 5% 1/10W
C	R6001M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
AB	R6002M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
C	R6003M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R6004M	063-11059-89A	Resistor, Chip, 47K Ohm 5% 1/10W
ABC	R6005M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6006M	063-11059-29A	Resistor, Chip, 150 Ohm 5% 1/10W
ABC	R6007M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R6012M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6013	063-10235-80	Resistor, Film, 2.2K Ohm 5% 1/4W
ABC	R6014M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R6015M	063-11059-87A	Resistor, Chip, 39K Ohm 5% 1/10W
ABC	R6016M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W



Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

SEE REFERENCE CHART ON PAGE 5

NOTE: This list will enable you to easily determine the parts used on each Model, Chassis, or Assembly.

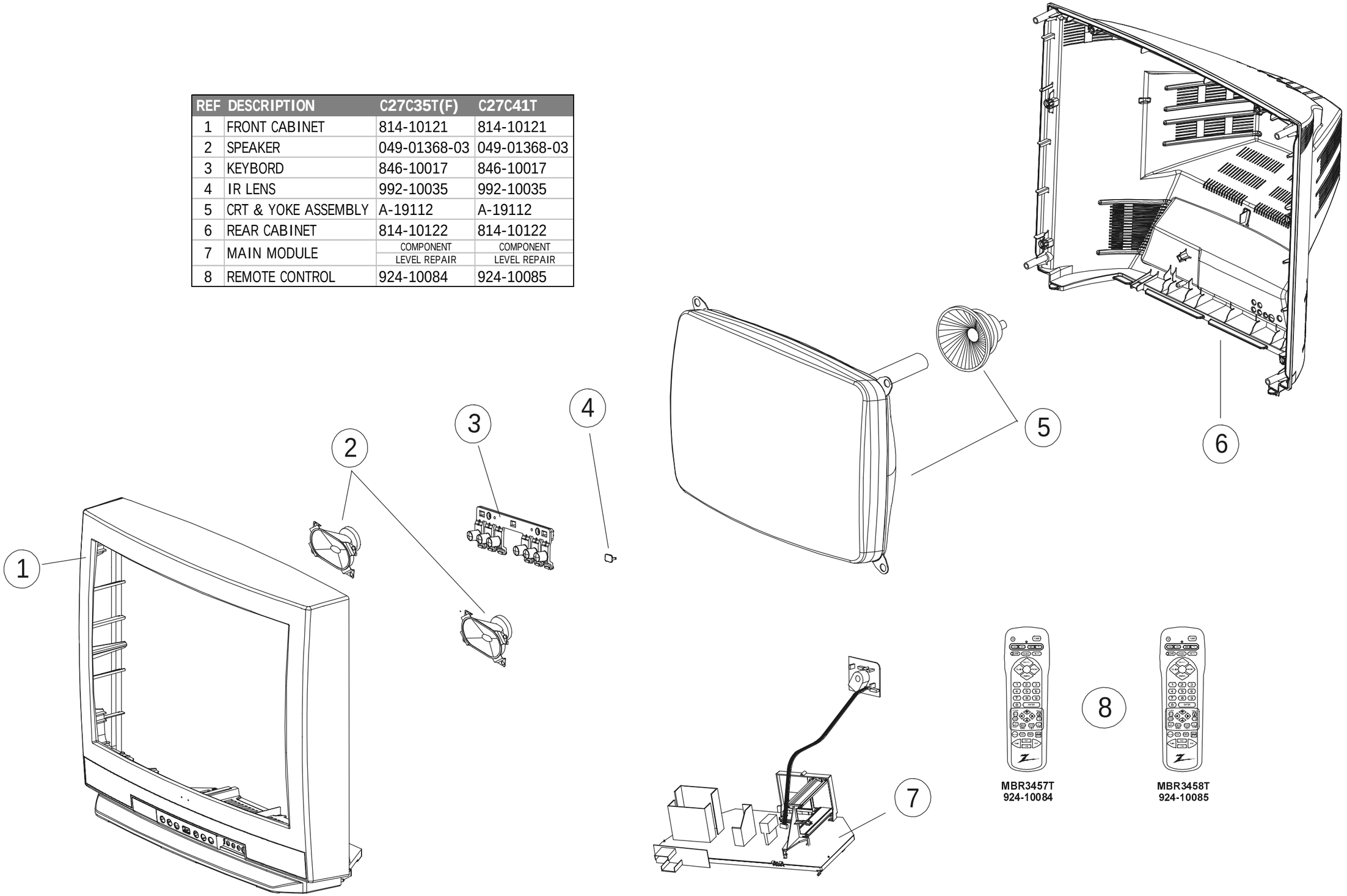
RC	REF	PART#	DESCRIPTION
ABC	R6019M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6021M	063-11060-21A	Resistor, Chip, 1 Meg Ohm 5% 1/10W
ABC	R6022M	063-11060-21A	Resistor, Chip, 1 Meg Ohm 5% 1/10W
ABC	R6023M	063-11060-21A	Resistor, Chip, 1 Meg Ohm 5% 1/10W
ABC	R6024M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6025M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6026M	063-11059-83A	Resistor, Chip, 27K Ohm 5% 1/10W
ABC	R6027	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R6028M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R6029	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R6030	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R6031M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
B	R6032M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	R6033M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6034M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R6035M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6036M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6037M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6038M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R6039M	063-11059-56A	Resistor, Chip, 2K Ohm 5% 1/10W
ABC	R6040	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R6041	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R6042	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R6043	063-10235-48	Resistor, Film, 100 Ohm 5% 1/4W
ABC	R6044M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6045M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6046M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6047M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6048	063-10235-96	Resistor, Film, 10K Ohm 5% 1/4W
ABC	R6049M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6050M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6051M	063-11059-65A	Resistor, Chip, 4.7K Ohm 5% 1/10W
ABC	R6052M	063-11059-49A	Resistor, Chip, 1K Ohm 5% 1/10W
ABC	R6053M	063-11059-57A	Resistor, Chip, 2.2K Ohm 5% 1/10W
ABC	R6054	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R6055	063-10235-56	Resistor, Film, 220 Ohm 5% 1/4W
ABC	R6056	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	R6060M	063-11059-37A	Resistor, Chip, 330 Ohm 5% 1/10W
ABC	R6081M	063-11059-33A	Resistor, Chip, 220 Ohm 5% 1/10W
ABC	R6087M	063-11059-73A	Resistor, Chip, 10K Ohm 5% 1/10W
ABC	RX2115	063-10565-61	Resistor, Film, 360 Ohm 5% 1/2W
ABC	RX2116	063-10565-61	Resistor, Film, 360 Ohm 5% 1/2W
ABC	RX2118	063-11110-06	Resistor, Film, 1.8 Ohm 5% 1/2W
ABC	RX2119	063-11110-06	Resistor, Film, 1.8 Ohm 5% 1/2W
ABC	RX3000M	063-11059-25A	Resistor, Chip, 100 Ohm 5% 1/10W
ABC	RX3001M	063-11059-97A	Resistor, Chip, 100K Ohm 5% 1/10W
ABC	RX3002	063-10936-37	Resistor, Film, 2.21K Ohm 1% 1/4W
ABC	RX3003	063-10936-72	Resistor, Film, 4.32K Ohm 1% 1/4W
ABC	RX3004	063-10936-72	Resistor, Film, 4.32K Ohm 1% 1/4W
B	RX3202	063-11087-64	Resistor, Film, 470 Ohm 5% 1/2W
ABC	RX3203	063-10244-04	Resistor, Film, 22K Ohm 5% 1/2W
ABC	RX3204	063-10832-69B	Resistor, Film, 750 Ohm 5% 1W
ABC	RX3206	063-10565-28C	Resistor, Film, 15 Ohm 5% 1/2W
ABC	RX3207	063-11087-66	Resistor, Film, 560 Ohm 5% 1/2W
ABC	RX3208	063-11087-66	Resistor, Film, 560 Ohm 5% 1/2W
ABC	RX3209	063-10565-10	Resistor, Film, 2.7 Ohm 5% 1/2W

RC	REF	PART#	DESCRIPTION
ABC	RX3210	063-10460-44A	Resistor, Wirewound, 6.8 Ohm 10% 10W
ABC	RX3211	063-10235-88	Resistor, Film, 4.7K Ohm 5% 1/4W
ABC	RX3212	063-10565	Resistor, Film, 1 Ohm 5% 1/2W
ABC	RX3213	063-11214-16	Resistor, Film, 0.51 Ohm 5% 1/2W
ABC	RX3214	063-11164-10B	Resistor, Film, 2.7 Ohm 5% 3W
ABC	RX3216	063-11160-60B	Resistor, Film, 330 Ohm 5% 2W
ABC	RX3400	063-11264-01	Resistor, Carb Comp, 5.6M Ohm 20% 1/2W
ABC	RX3401	063-11197-20	Resistor, Wirewound, 0.68 Ohm 5% 5W
ABC	RX3601	063-11235-01	Resistor, Film, 0.12 Ohm 10% 3W
ABC	RX3602	063-10235-68	Resistor, Film, 680 Ohm 5% 1/4W
ABC	RX3603	063-10235-84	Resistor, Film, 3.3K Ohm 5% 1/4 W
ABC	RX3604	063-10235-78	Resistor, Film, 1.8K Ohm 5% 1/4W
ABC	RX3606	063-10559	Resistor, Film, 1 Ohm 5% 1/4W
ABC	RX3607	063-10244-14	Resistor, Film, 56K Ohm 5% 1/2W
ABC	RX3608	063-10244-14	Resistor, Film, 56K Ohm 5% 1/2W
ABC	RX3701	063-10235-76	Resistor, Film, 1.5K Ohm 5% 1/4W
ABC	RX3702	063-10235-72	Resistor, Film, 1K Ohm 5% 1/4W
ABC	RX3703	063-10236-38	Resistor, Film, 560K Ohm 5% 1/4W
ABC	RX3704	063-11285-07	Resistor, Film, 174K Ohm 0.1% 1/4W
ABC	RX3705	063-11283-45	Resistor, Film, 3.57K Ohm 0.1% 1/4W
ABC	RX3804	063-11197-40	Resistor, Wirewound, 4.7 Ohm 5% 5W
ABC	RX3804	063-11197-43	Resistor, Wirewound, 6.2 Ohm 5% 5W
ABC	RX3805	063-10559-44	Resistor, Film, 68 Ohm 5% 1/4W
ABC	RX3808	063-10235-52	Resistor, Film, 150 Ohm 5% 1/4W
ABC	RX3809	063-10243-76	Resistor, Film, 1.5K Ohm 5% 1/2W
ABC	RX3812	063-10236-24	Resistor, Film, 150K Ohm 5% 1/4W
ABC	RX3814	063-11197-52	Resistor, Wirewound, 15 Ohm 5% 5W
ABC	SW1	085-01821-02A	Switch, Push-Button, Non Locking, SPST
ABC	SW2	085-01821-02A	Switch, Push-Button, Non Locking, SPST
ABC	SW3	085-01821-02A	Switch, Push-Button, Non Locking, SPST
ABC	SW4	085-01821-02A	Switch, Push-Button, Non Locking, SPST
ABC	SW5	085-01821-02A	Switch, Push-Button, Non Locking, SPST
ABC	SW6	085-01821-02A	Switch, Push-Button, Non Locking, SPST
AC	THX3901	063-11119	Resistor, Thermistor, Degausser
ABC	TX3200	095-04477-01	Transformer, Horizontal Driver
ABC	TX3201	895-10109	Sweep Xfmr, Color, Final, Micromini, Video 200V
ABC	TX3601	095-04633	Transformer, Chopper
ABC	U1200	905-10526	Saw Filter, Intercarrier
ABC	U1201	224-00139-01A	Filter, 4.5 Mhz Ceramic Bandpass
ABC	U1202	224-00023A	Ceramic Filter, 4.5 Mhz Trap
ABC	VC1	058-00586-05	Plug, Multiprong, Natural Color, 5 Position
ABC	VC1/1CV	852-10027	Connector & Cable Assy, Shielded, 5 Circuit
ABC	WT1200	175-02770	Tuner, Varactor, 181 Channel, Single IC, World Standard
ABC	WT1300	175-02705	Tuner, Tricombo Intercarrier IF Processing, Varactor, 181 Channel
ABC	ZD1200	103-00279-36A	Diode, Zener, 33V 0.5W
ABC	ZD1300	103-00279-36A	Diode, Zener, 33V 0.5W
ABC	ZD2900	103-00279-18A	Diode, Zener, 9.1V 0.5W
ABC	ZD2901	103-00279-18A	Diode, Zener, 9.1V 0.5W
ABC	ZD2903	103-00279-18A	Diode, Zener, 9.1V 0.5W
C	ZD2904	103-00279-15A	Diode, Zener, 7.5V 0.5W
AB	ZD2905	103-00279-18A	Diode, Zener, 9.1V 0.5W
ABC	ZD2906	103-00279-18A	Diode, Zener, 9.1V 0.5W
ABC	ZDX3002	103-00472A	Diode, Zener, 12V 0.5W
ABC	ZDX3801	103-00279-24A	Diode, Zener, 15V 0.5W

Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

27V Table Top Exploded View

REF	DESCRIPTION	C27C35T(F)	C27C41T
1	FRONT CABINET	814-10121	814-10121
2	SPEAKER	049-01368-03	049-01368-03
3	KEYBORD	846-10017	846-10017
4	IR LENS	992-10035	992-10035
5	CRT & YOKE ASSEMBLY	A-19112	A-19112
6	REAR CABINET	814-10122	814-10122
7	MAIN MODULE	COMPONENT LEVEL REPAIR	COMPONENT LEVEL REPAIR
8	REMOTE CONTROL	924-10084	924-10085

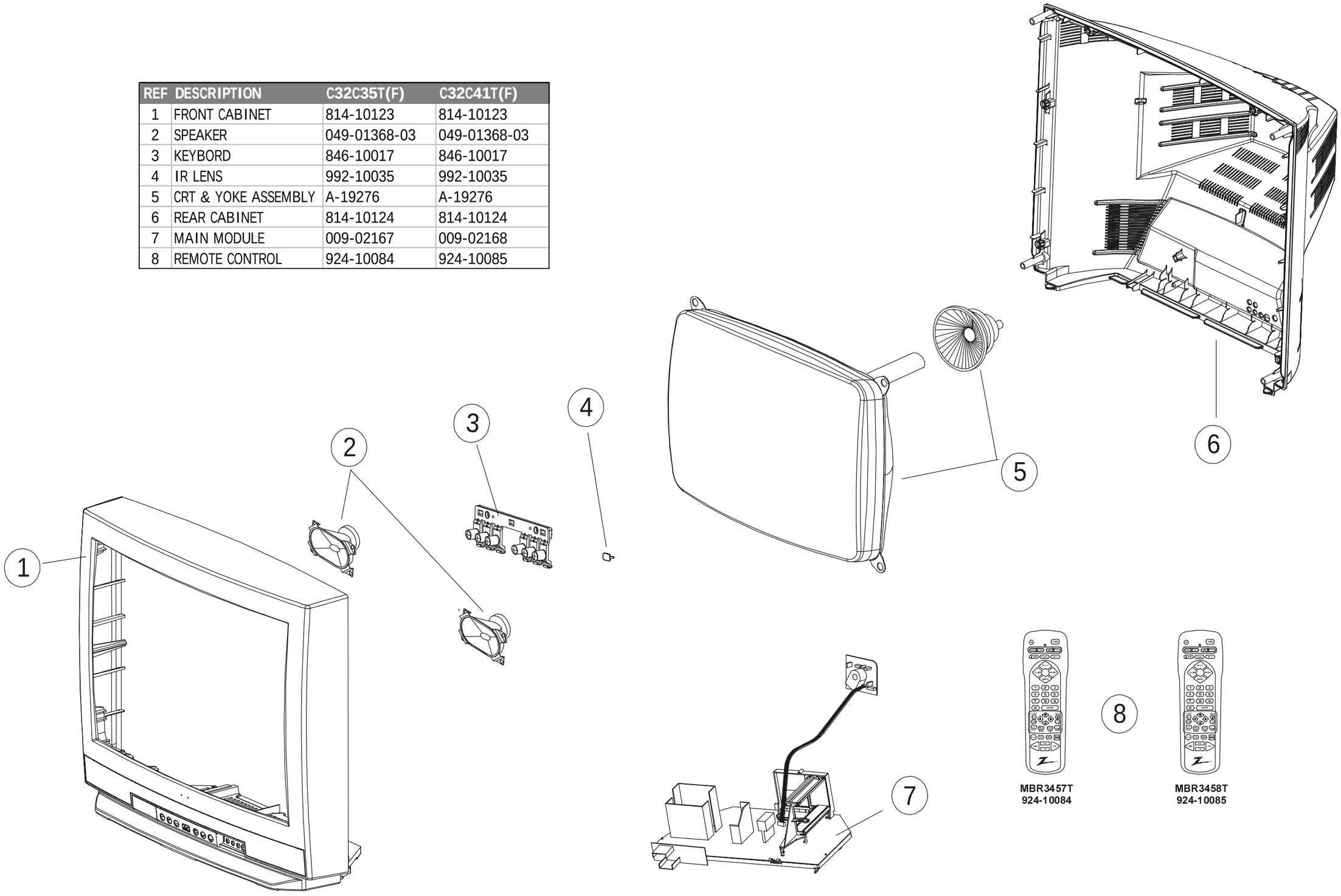


MBR3457T
924-10084

MBR3458T
924-10085

32V Table Top Exploded View

REF	DESCRIPTION	C32C35T(F)	C32C41T(F)
1	FRONT CABINET	814-10123	814-10123
2	SPEAKER	049-01368-03	049-01368-03
3	KEYBORD	846-10017	846-10017
4	IR LENS	992-10035	992-10035
5	CRT & YOKE ASSEMBLY	A-19276	A-19276
6	REAR CABINET	814-10124	814-10124
7	MAIN MODULE	009-02167	009-02168
8	REMOTE CONTROL	924-10084	924-10085

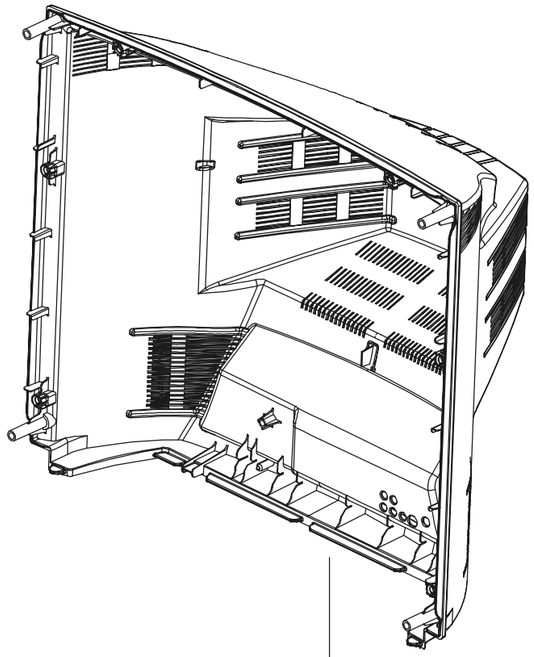


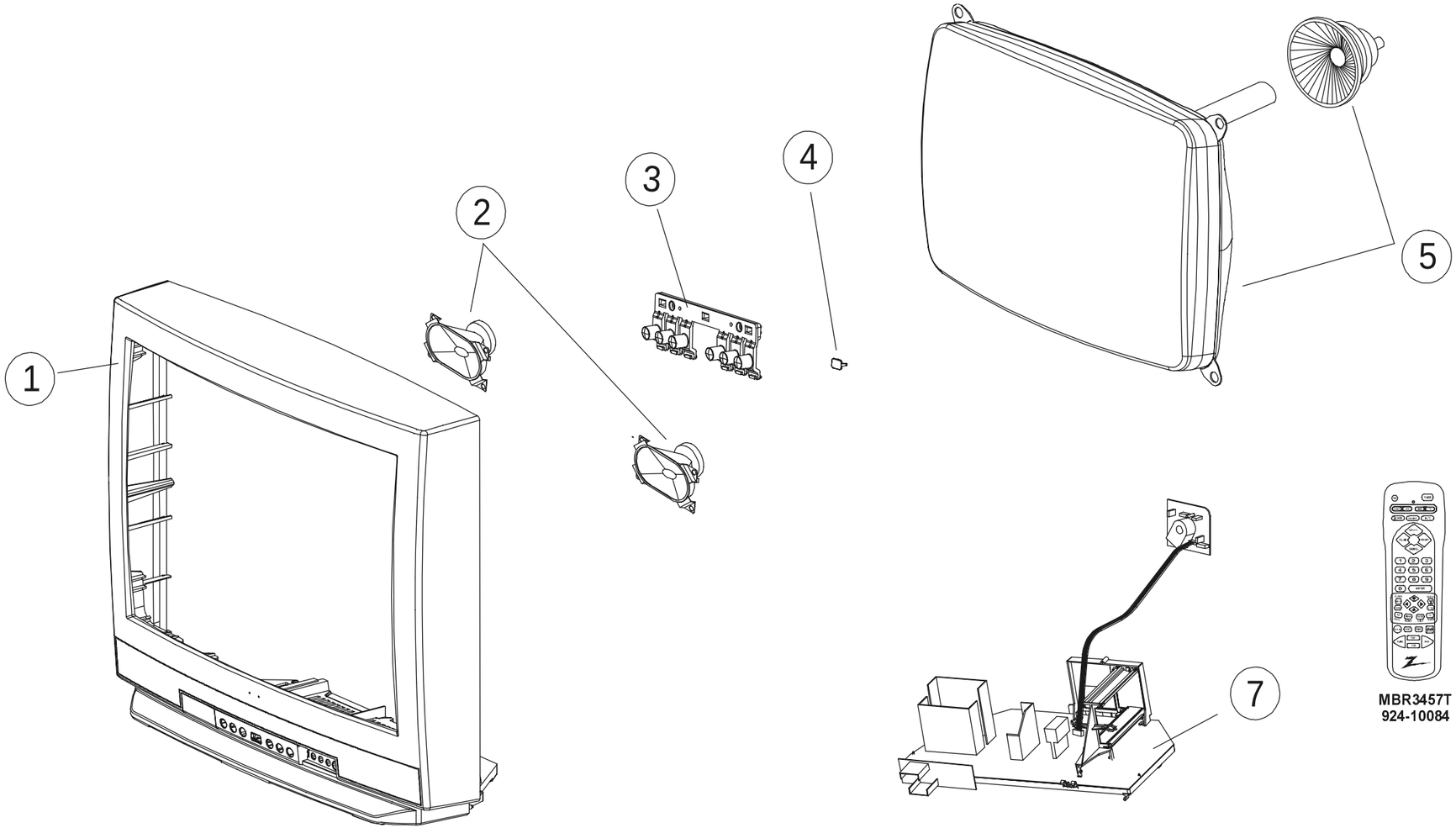
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924-10084

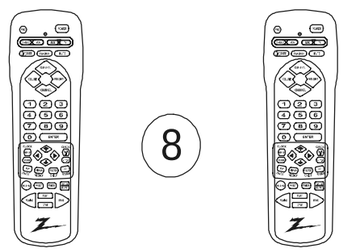
MBR3458T
924-10085

36V Table Top Exploded View

REF	DESCRIPTION	C36C35T(F)	C36C35T8	C36C41T(F)	C36C41T8
1	FRONT CABINET	814-10125	814-10125	814-10125	814-10125
2	SPEAKER	049-01368-03	049-01368-03	049-01368-03	049-01368-03
3	KEYBORD	846-10017	846-10017	846-10017	846-10017
4	IR LENS	992-10035	992-10035	992-10035	992-10035
5	CRT & YOKE ASSEMBLY	A-18483	A-18483	A-18483	A-18483
6	REAR CABINET	814-10126	814-10126	814-10126	814-10126
7	MAIN MODULE	009-02169	009-02169-01	009-02170	009-02170
8	REMOTE CONTROL	924-10084	924-10084	924-10085	924-10085





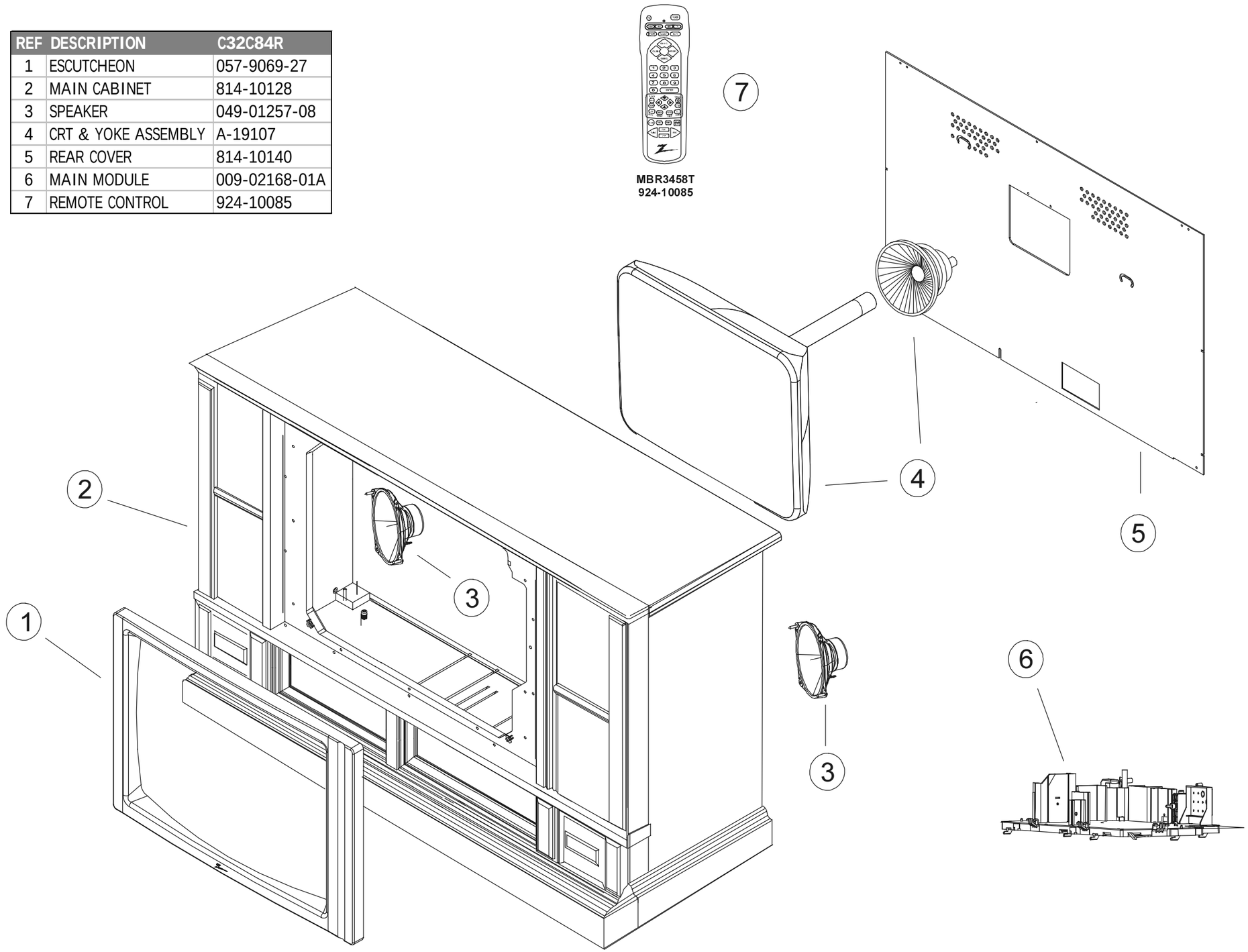


MBR3457T
924-10084

MBR3458T
924-10085

32V Traditional Console Exploded View

REF	DESCRIPTION	C32C84R
1	ESCUTCHEON	057-9069-27
2	MAIN CABINET	814-10128
3	SPEAKER	049-01257-08
4	CRT & YOKE ASSEMBLY	A-19107
5	REAR COVER	814-10140
6	MAIN MODULE	009-02168-01A
7	REMOTE CONTROL	924-10085

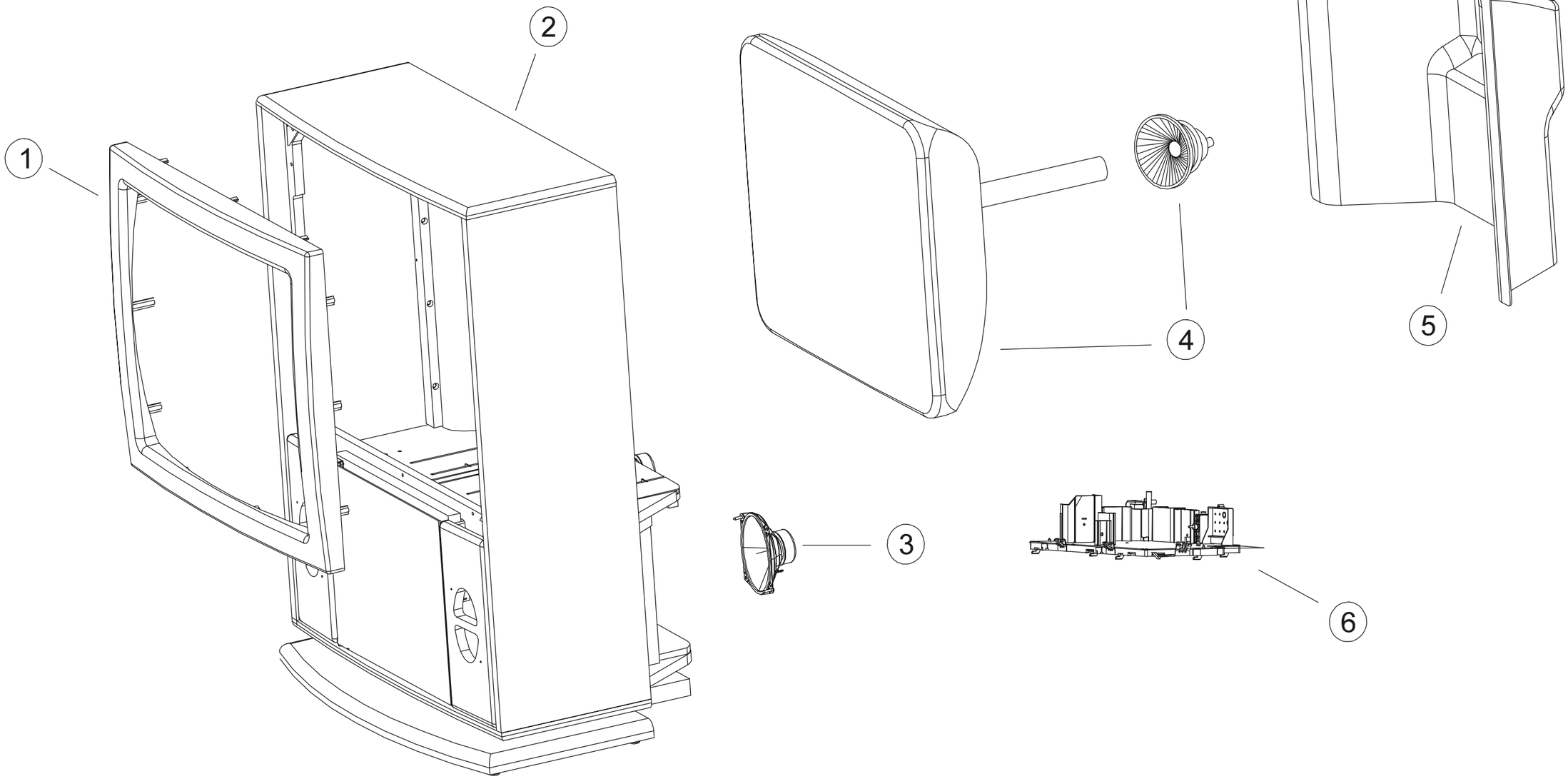


32/36V Contemporary Exploded View

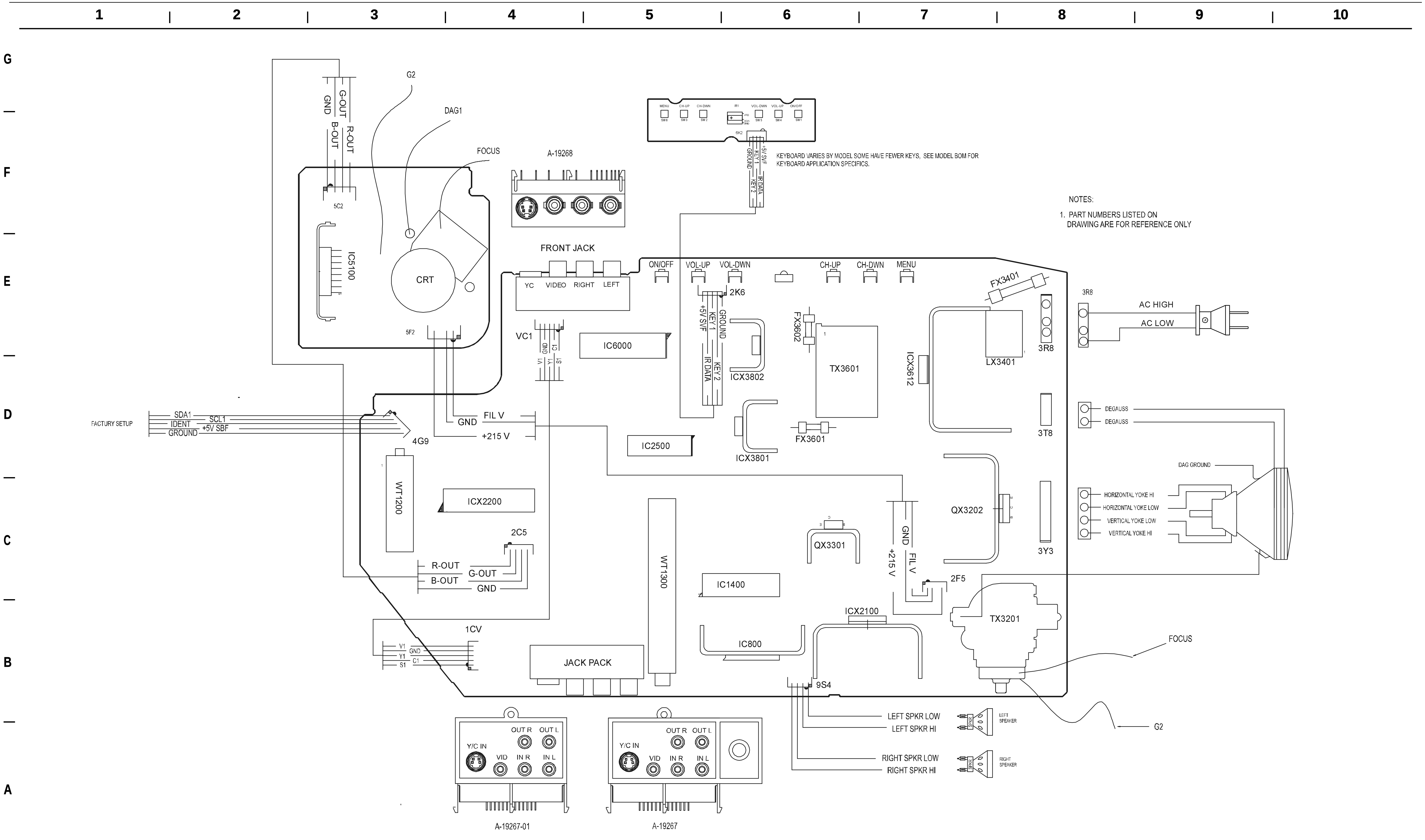
REF	DESCRIPTION	C32C86R	C36C86R
1	ESCUTCHEON	057-09069-28	057-09079-04
2	MAIN CABINET	814-10129	814-10130
3	SPEAKER	049-01257-08	049-01257-08
4	CRT & YOKE ASSEMBLY	A-19107	A-18639
5	REAR COVER	814-10141	814-10142
6	MAIN MODULE	009-02168-01A	009-02170-01A
7	REMOTE CONTROL	924-10085	924-10085



MBR3458T
924-10085



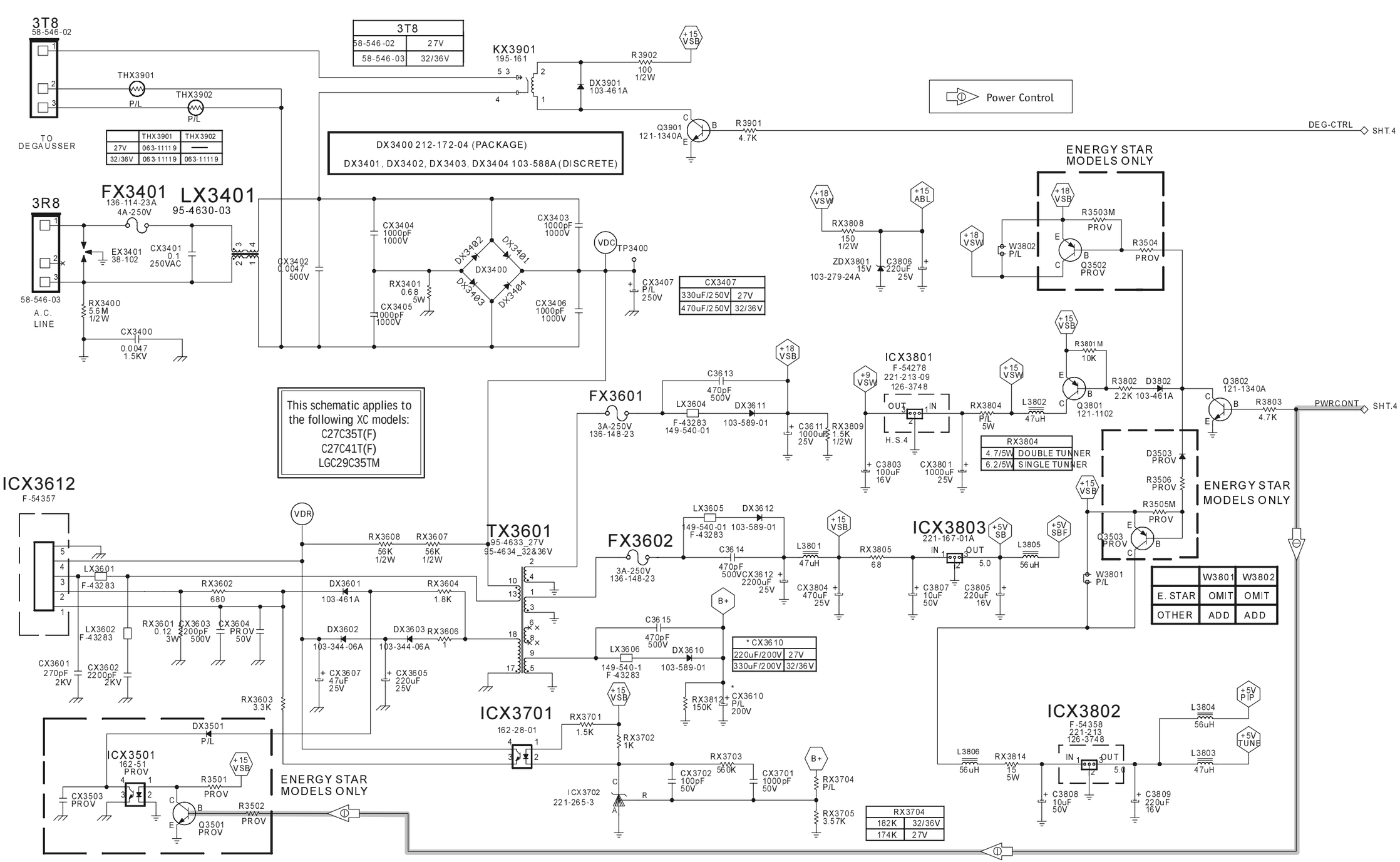
Interconnect Diagram



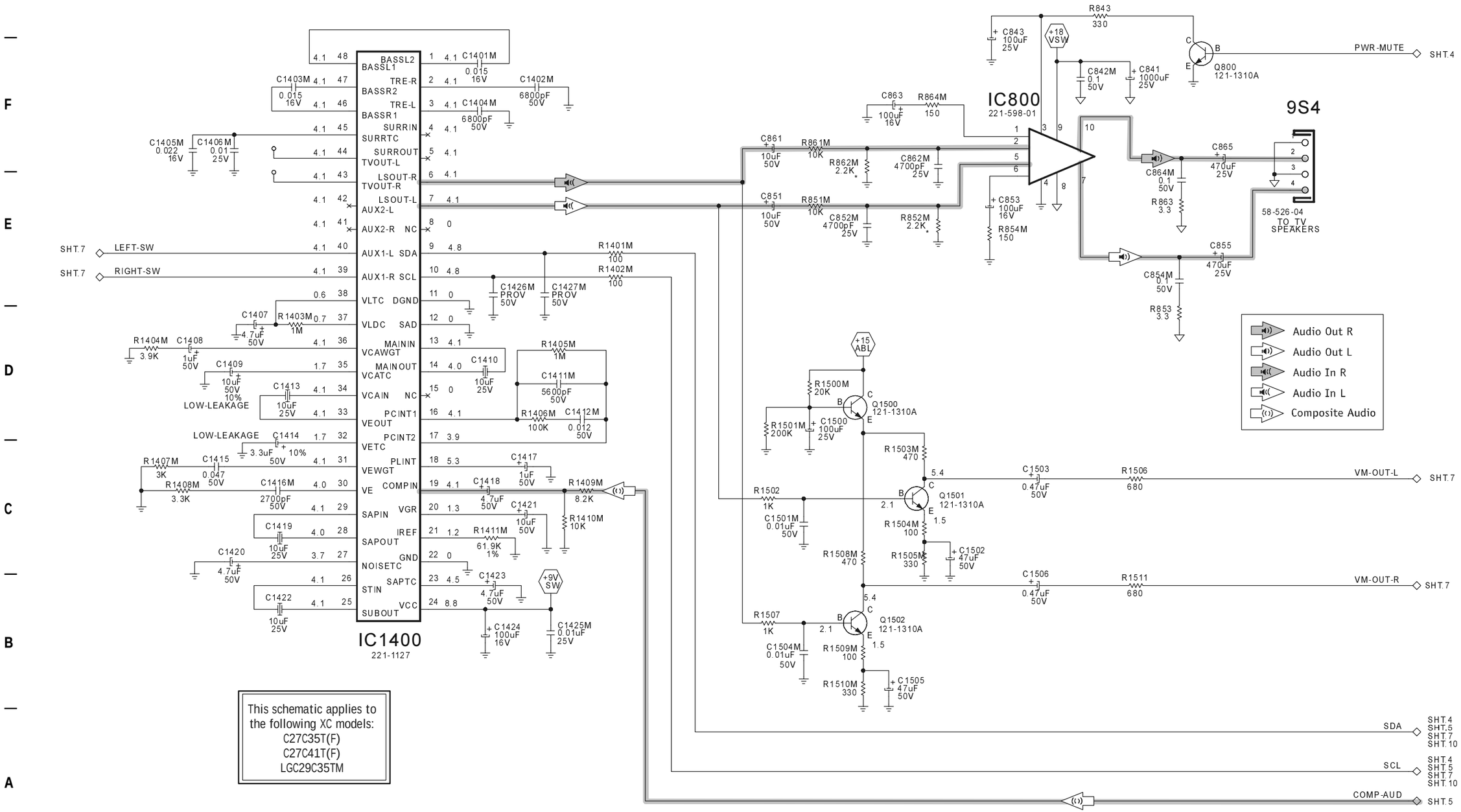
CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

Power Supply



Audio Processor



This schematic applies to the following XC models:
C27C35T(F)
C27C41T(F)
LGC29C35TM

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10

G F E D C B A

IC6000
M37273
126-3346-02(SH)

HSYNC R
VSYNC G
VERT-SIZE B
HOR-SIZE FB
N/C DEG CTRL
CRT PROT N/C
N/C UD-SWAP
N/C N/C
N/C N/C
N/C N/C
N/C PWR MUTE
AFC1 H/T
POWER N/C
IRDET SCL1
N/C SCL2
SD SDA1
SD2 SDA2
N/C N/C
AVDD KEY2
HLF KEY1
VHOLD AFC2
CVIN IDENT
CNVSS RESET
XIN OSC-OUT
XOUT OSC-IN
VSS VDD

MAP MEMORY BY CRT SIZE

CRT SIZE	PIN 11	PIN 35
25"	R6064M	R6063M
27"	R6064M	R6061M
32"	R6062M	R6063M
36"	R6062M	R6061M

Vertical
Horizontal
Power Control
Luma (Y-IN)

This schematic applies to the following XC models:
C27C35T(F)
C27C41T(F)
LGC29C35TM

IR6000
F-52138

EXTERNAL KEYBOARD
2K6
58-526-05

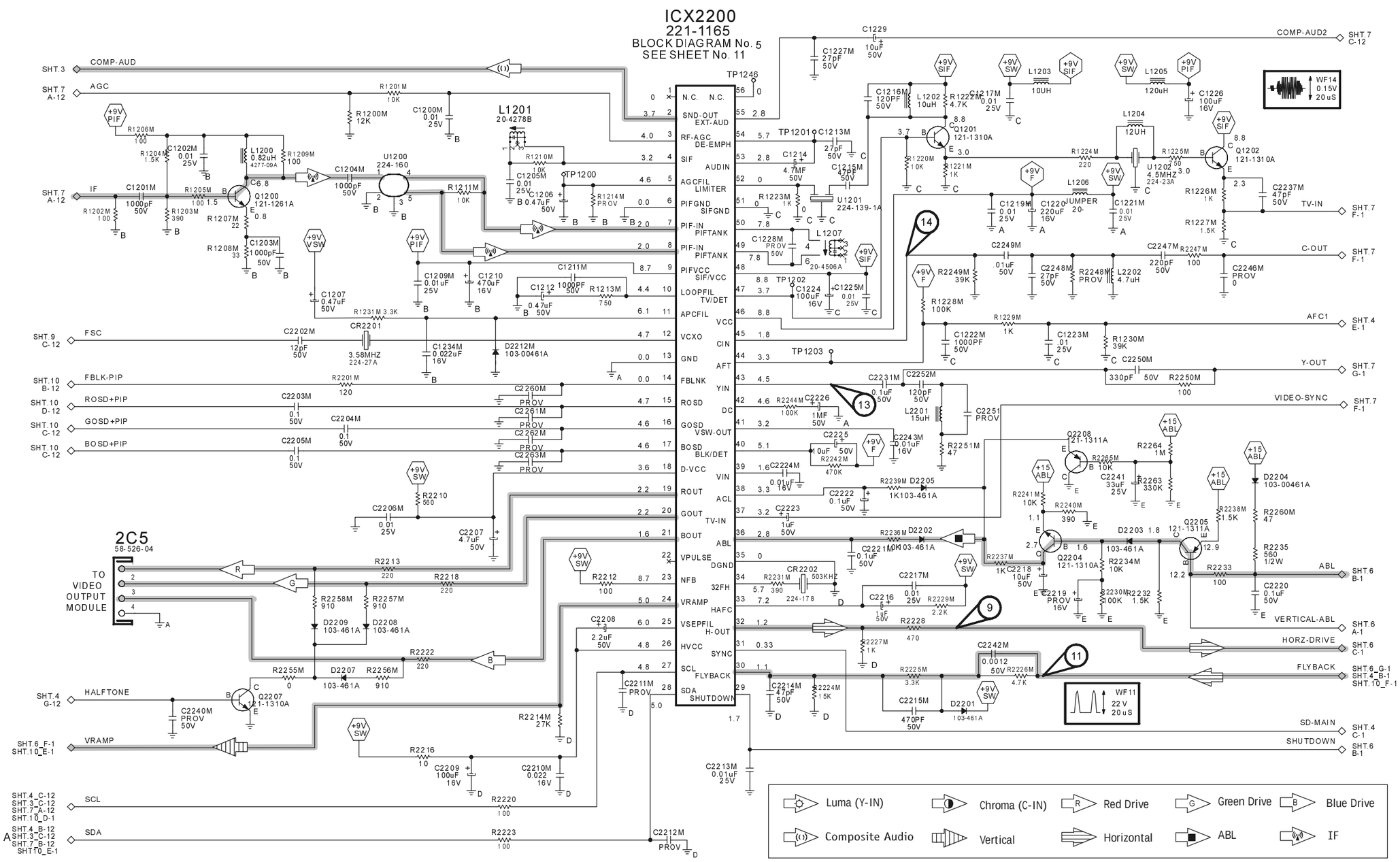
EXTERNAL KEYBOARD
4G9
58-526-05
FACTORY SETUP

IC6001
221-745-04

IC6002
221-1177A
KIA7042

SW1 ON/OFF 85-1832
SW2 CH-UP 85-1832
SW3 CH-DWN 85-1832
SW4 VOL-UP 85-1832
SW5 VOL-DWN 85-1832
SW6 MENU 85-1832

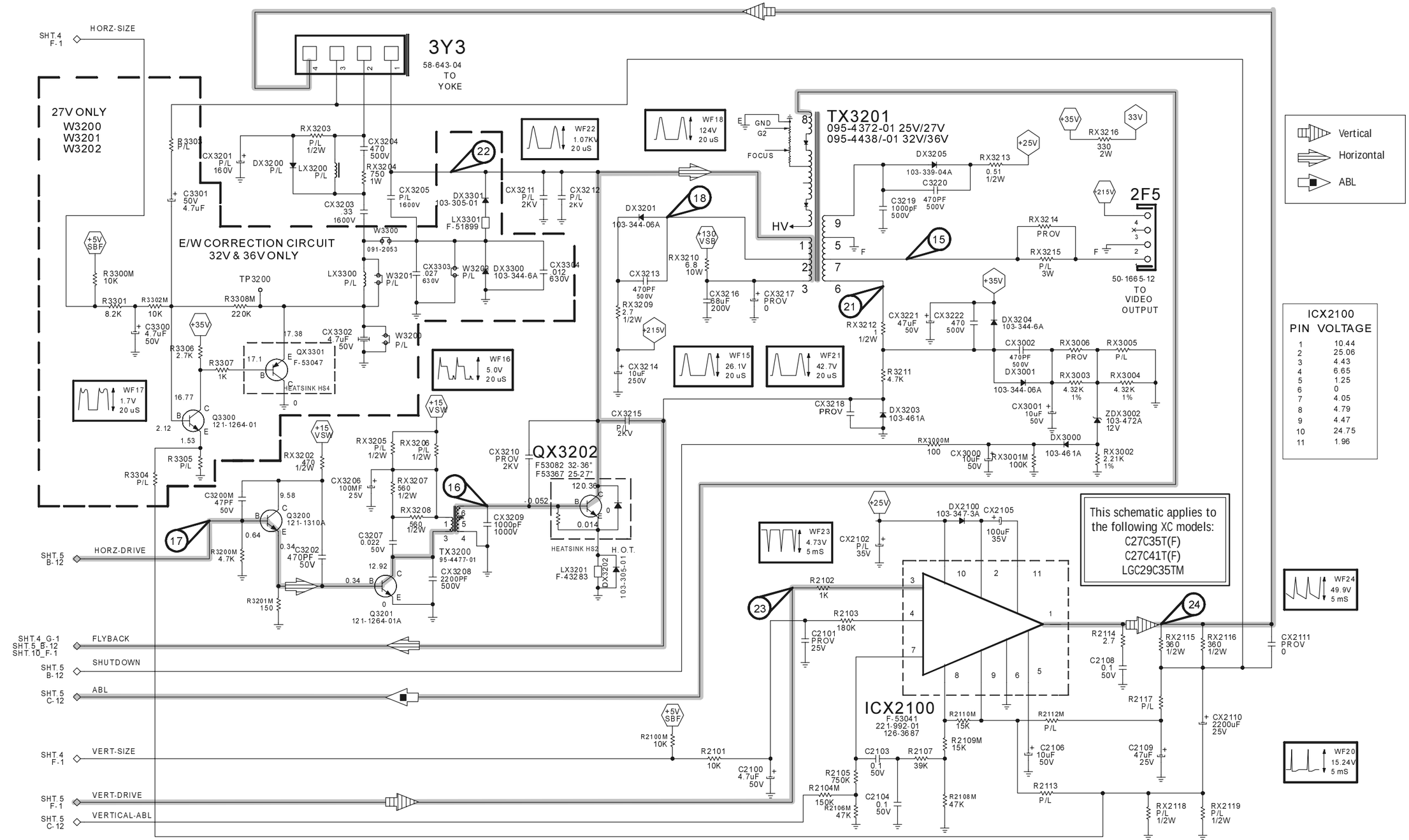
Video Processor



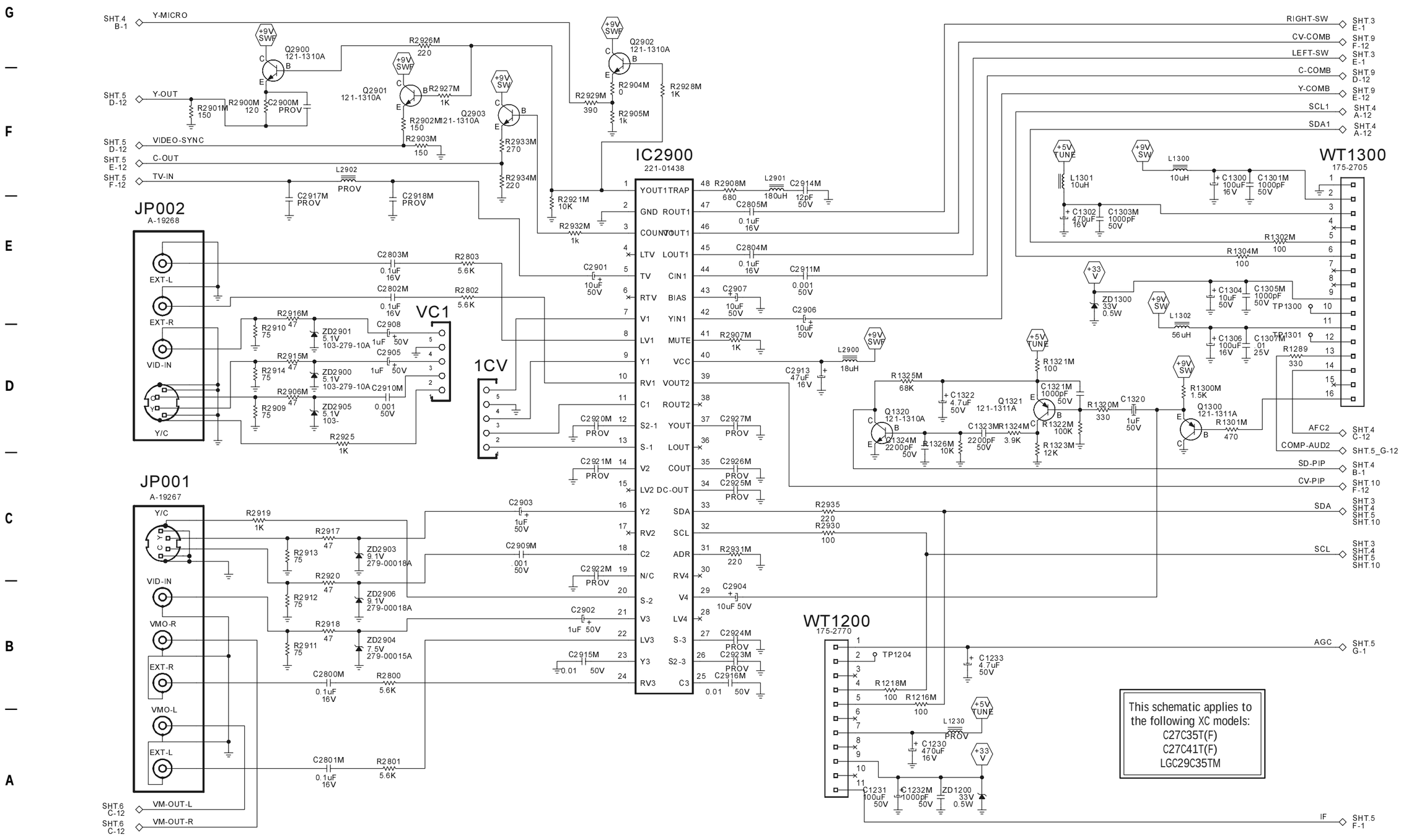
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ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

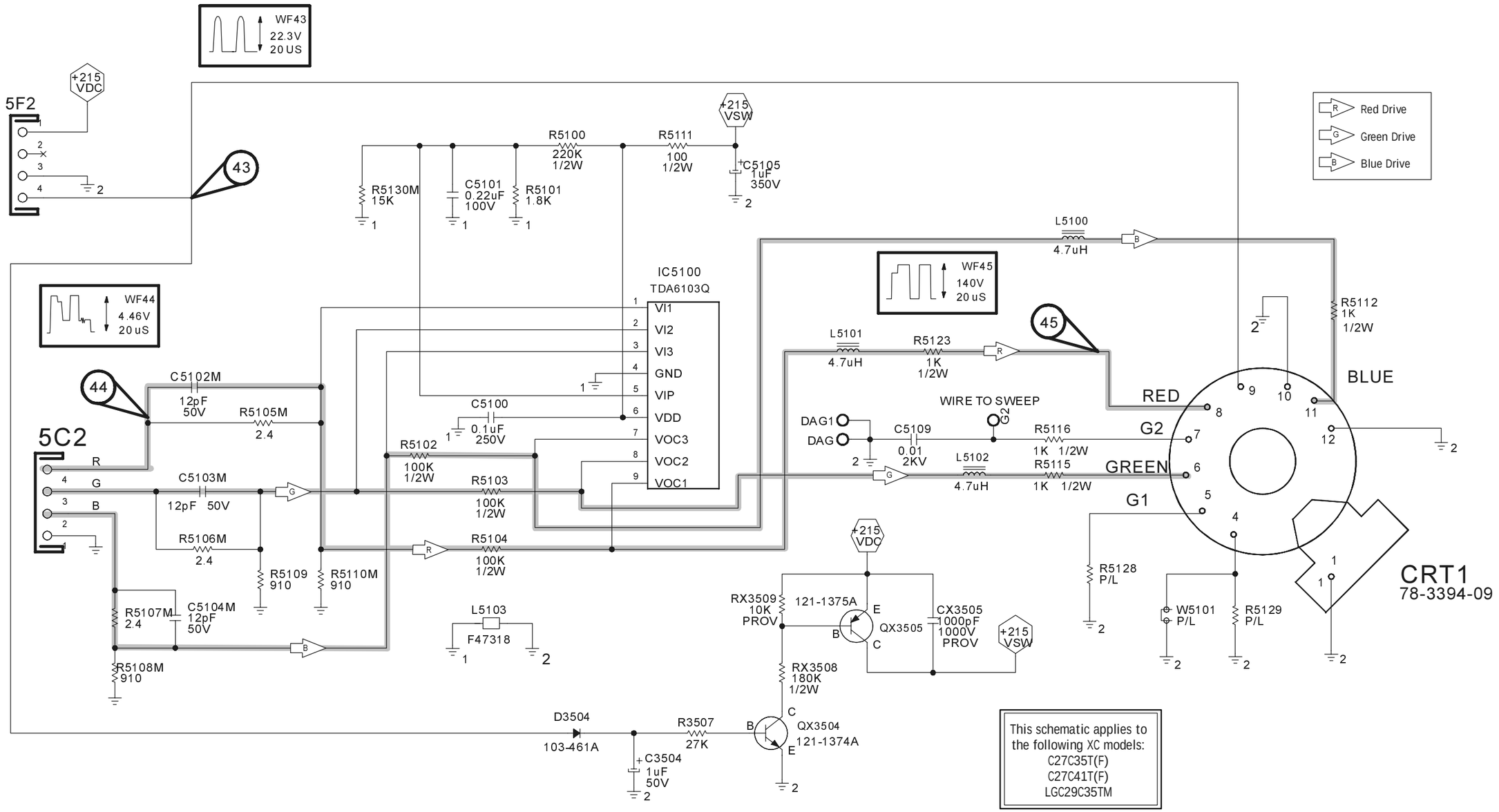
Horizontal/Vertical Deflection



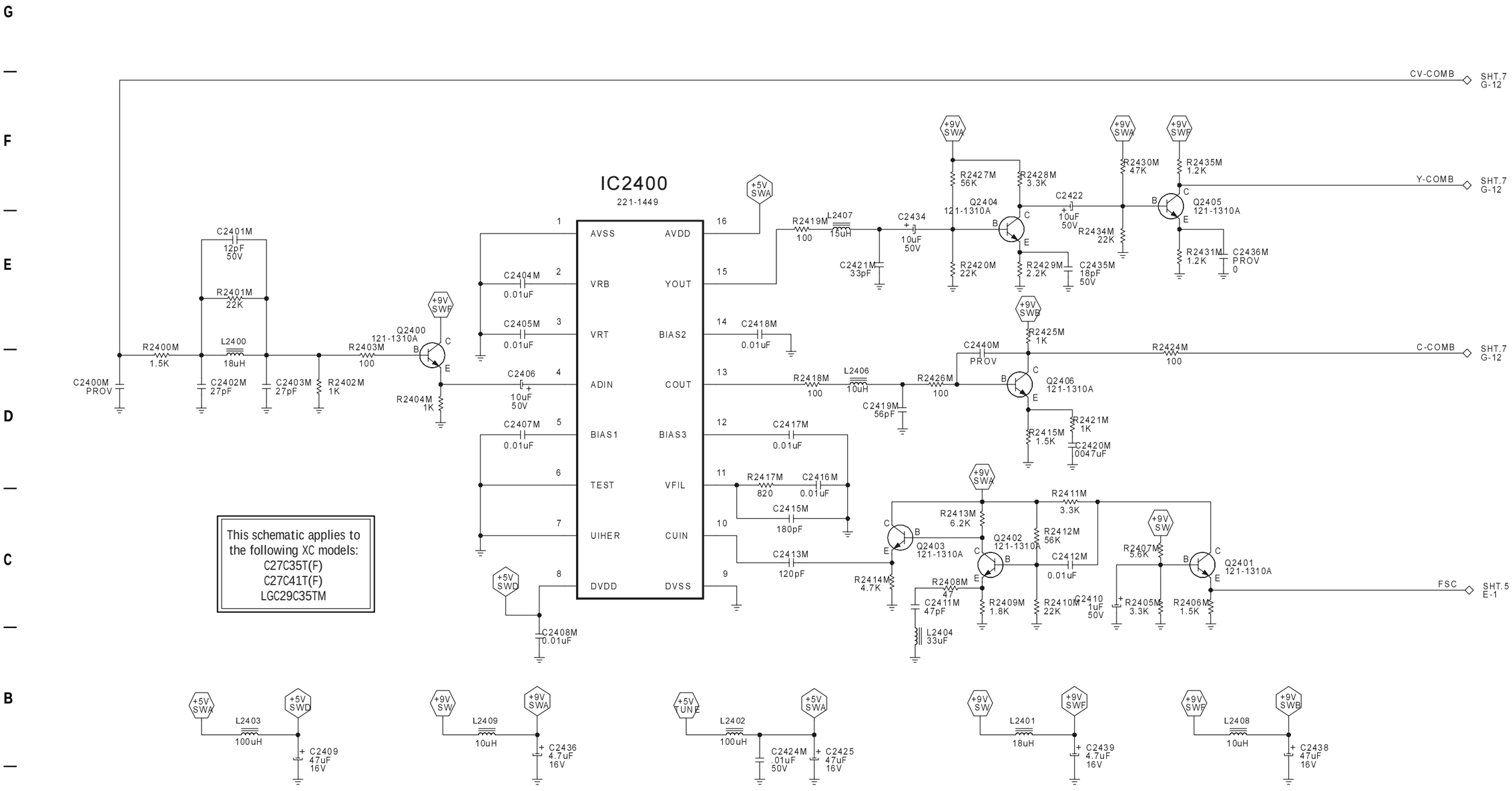
Jack and Switch Circuit



Video Ouput


WF43
22.3V
20 US
+215 VDC
5F2
43
R5130M 15K
C5101 0.22uF 100V
R5101 1.8K
R5100 220K 1/2W
R5111 100 1/2W
+215 VSW
C5105 1uF 350V
Red Drive
Green Drive
Blue Drive
L5100 4.7uH
WF45
140V
20 uS
IC5100
TDA6103Q
VI1
VI2
VI3
GND
VIP
VDD
VOC3
VOC2
VOC1
WF44
4.46V
20 uS
44
C5102M 12pF 50V
R5105M 2.4
5C2
R
G
B
C5103M 12pF 50V
R5106M 2.4
R5107M 2.4
C5104M 12pF 50V
R5108M 910
R5109 910
R5110M 910
C5100 0.1uF 250V
R5102 100K 1/2W
R5103 100K 1/2W
R5104 100K 1/2W
L5103 F47318
45
L5101 4.7uH
R5123 1K 1/2W
R5112 1K 1/2W
BLUE
RED
WIRE TO SWEEP
DAG1
DAG
C5109 0.01 2KV
R5116 1K 1/2W
G2
L5102 4.7uH
R5115 1K 1/2W
GREEN
G1
R5128 P/L
W5101 P/L
R5129 P/L
CRT1
78-3394-09
+215 VDC
RX3509 10K PROV
121-1375A
QX3505
CX3505 1000pF 1000V PROV
+215 VSW
RX3508 180K 1/2W
D3504
103-461A
R3507 27K
QX3504
121-1374A
C3504 1uF 50V
This schematic applies to the following XC models:
C27C35T(F)
C27C41T(F)
LGC29C35TM

Comb Filter Module

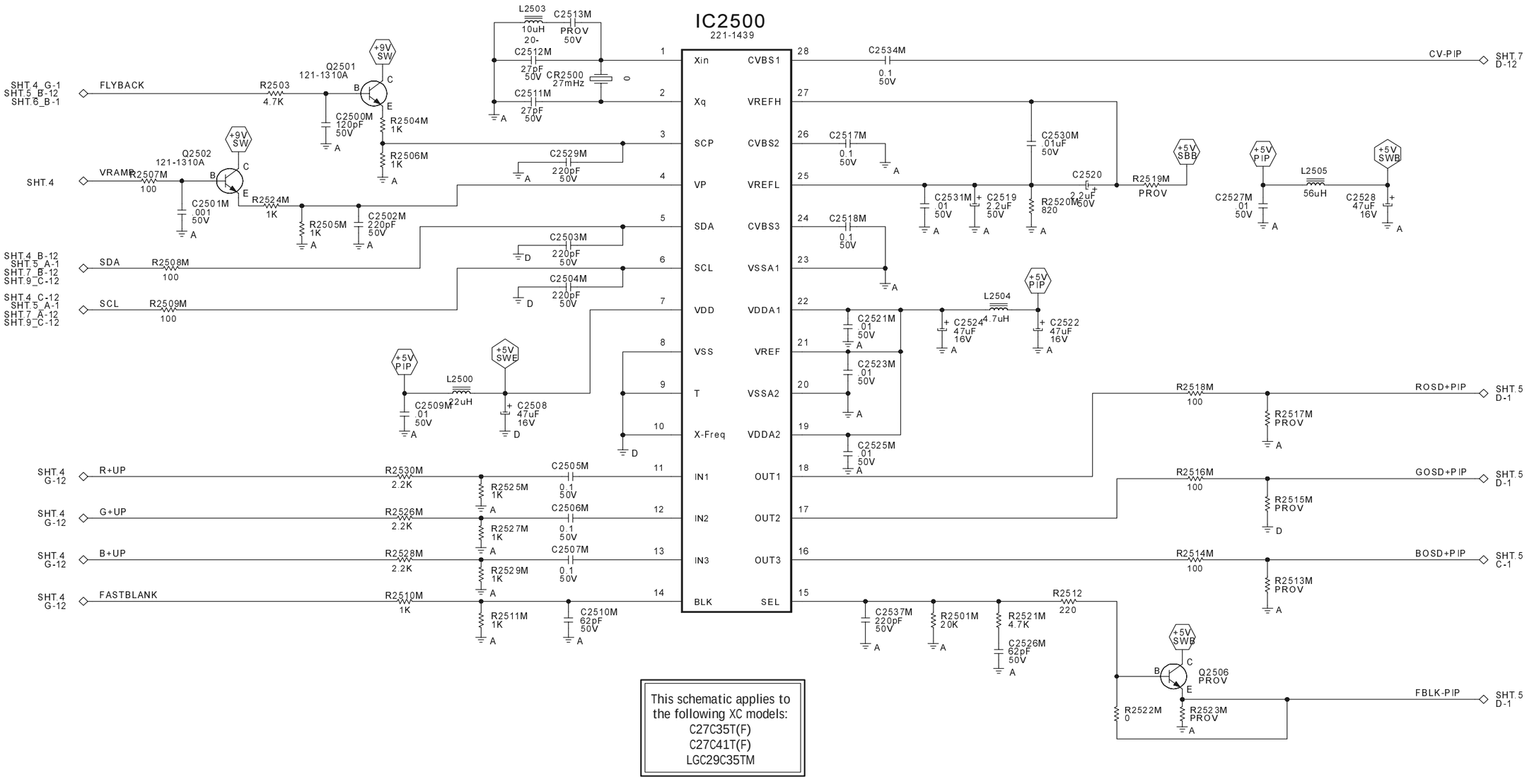


This schematic applies to the following XC models:
C27C35T(F)
C27C41T(F)
LGC29C35TM

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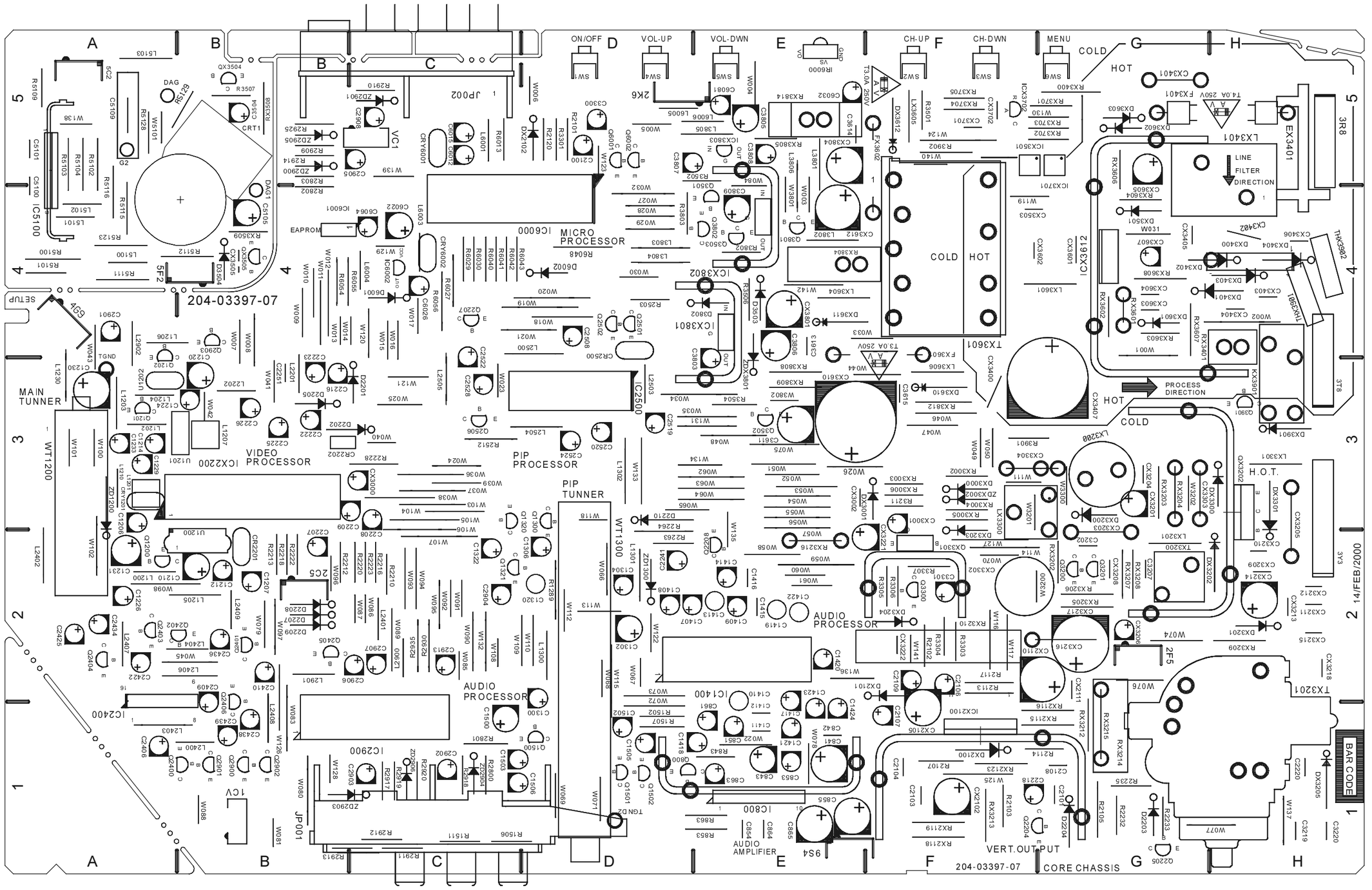
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

PIP Module

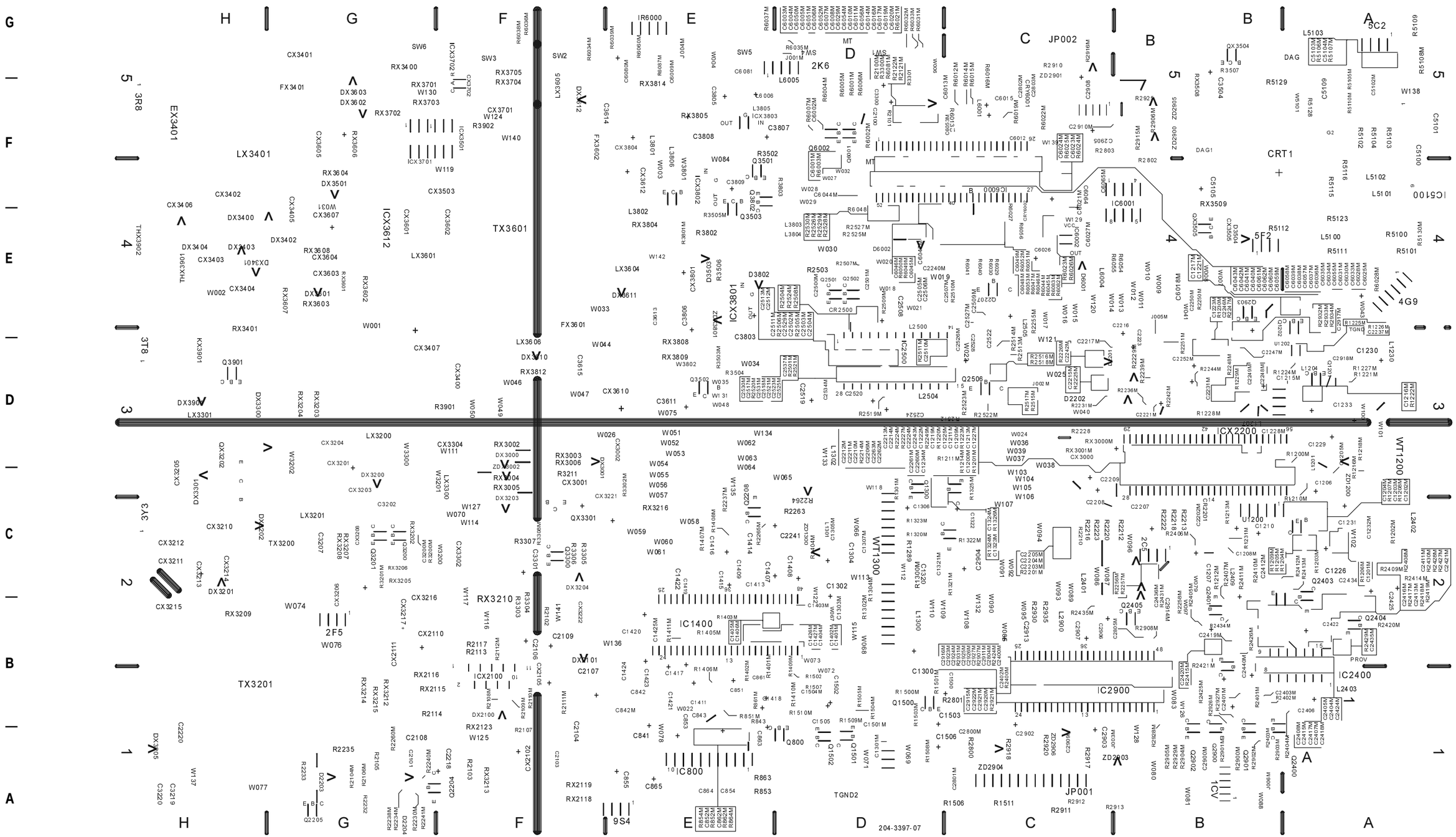


This schematic applies to the following XC models:
C27C35T(F)
C27C41T(F)
LGC29C35TM

PCB Layout

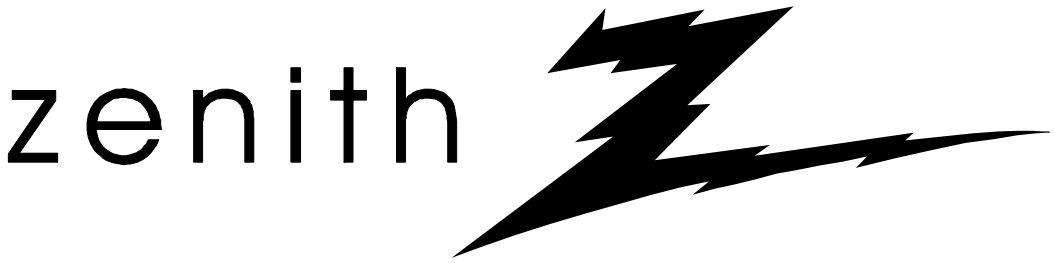

204-03397-07
MICRO PROCESSOR
IC6000
VIDEO PROCESSOR
IC2200
PIP PROCESSOR
PIP TUNNER
WT1300
WT1200
AUDIO PROCESSOR
IC3802
IC3612
IC2400
IC2900
IC1400
IC2500
IC3801
IC5100
AUDIO AMPLIFIER
IC800
VERT.OUTPUT
CORE CHASSIS
MAIN TUNNER
EAPROM
COLD
HOT
ON/OFF
VOL-UP
VOL-DWN
CH-UP
CH-DWN
MENU
LINE FILTER DIRECTION
PROCESS DIRECTION
H.O.T.
BAR CODE
14/FEB/2000

SMD Layout



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zenith