zenith

SERVICE MANUAL

Product Type:	Commercial Color TV
Chassis:	CH
Manual Series:	SR21A
Manual Part #:	923-03391R1
Model Line:	B
Product Year:	1999

Model Series:

H1934Y	H2535DT
H1934Y3	H2535DT3
H1934Y33	H2535DT33
H1934Y4	H2535DT4
H1934Y6	H2535DT6
H2034Y	H2539Y
H2034Y3	H2539Y3
H2034Y33	H2539Y33
H2034Y4	H2539Y4
H2034Y6	H2539Y6
H2035DT	H2735DT
H2035DT3	H2735DT3
H2035DT33	H2735DT33
H2035DT4	H2735DT4
H2035DT6	H2735DT6
H2050DT	H3235DT
H2050DT3	H3235DT3
H2050DT33	H3235DT33
H2050DT4	H3235DT4
H2050DT6	H3235DT6
H2534Y	H3635DT
H2534Y3	H3635DT3
H2534Y33	H3635DT33
H2534Y4	H3635DT4
H2534Y6	H3635DT6

REVISED EDITION

This revised edition includes the original CH manual (Part number 923-03391) and the first addendum (Part number 923-03391A1).

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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.

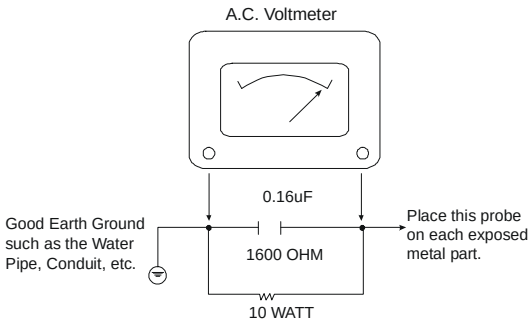
The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH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

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of 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 re-assembly 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.

X-RADIATION

To prevent possible exposure to x-radiation caused by excessive CRT Anode Voltage, the CH Chassis incorporates a "High Voltage Shutdown" circuit. This circuit senses the level of a flyback pulse from the "Flyback Transformer" representative of the actual high voltage on the CRT anode. When this level exceeds a predetermined voltage, the circuit shuts down the horizontal drive, preventing further generation of anode voltage. In this condition, the horizontal drive is "latched" off. The drive will remain off until power (via remote control or front panel) is re-cycled from 'Off' to 'On'.

SHUTDOWN CIRCUIT OPERATION

(Refer to Figure below)

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 chasis ground. Access the Video Menu and adjust Brightness and Contrast controls for minimum screen luminance. Wait until the Video Menu or display disappear. Read the high voltage meter, ramping up the external power supply from 4 to 8 volts, until the circuit shutsdown.

Measurement of the CRT Anode voltage must be performed using a high impedance high voltage meter, with no visible raster on the screen, and operating at nominal horizontal scanning frequency. Connect a strong broadcast signal (or TV signal generator operating at 15.734kHz horizontal scanning rate) to the RF input.

After discharging the CRT, connect a high impedance high voltage meter to the CRT anode. Turn the television 'on' and confirm a good signal is being displayed. Reduce Brightness and Contrast settings until the picture is well extinguished.

Observe the Anode voltage meter reading and compare with the table for the proper CRT screen size. If the voltage reading is higher than the maximum, verify circuit component values and proper operation.

NOTE:

The CH Chassis does NOT have a bleeder resistor to discharge the Anode voltage. High voltage can remain on the CRT Anode long after power is turned off. Before removing the CRT anode connection, turn off and unplug the television, then discharge the CRT Anode to DAG ground.

SAFETY CIRCUIT TEST PROCEDURE

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. Connect a 1 Giga Ohm resistor in parallel with the HV meter. Then connect the external power supply's negative output (-) to chassis ground, that is, the negative lead of B+ filter capacitor, CX3420. Turn on the TV. Apply a video signal or tune the TV to a raster pattern. Adjust the G2 potentiometer for minimum, and set the brightness and contrast levels to minimum. Now adjust the output voltage of the external power supply to 124 VDC for CA25V/27V or 130 VDC for CA32V/36V. Then start increasing the voltage on the external power supply until the TV shuts down, and read the HV on the meter just before the voltage starts dropping.

Equipment required:

a) Video Generator.

b) HV DC meter (0 to 40 KV, high Z).

c) External variable power supply (0V to 200 VDC @ 5Amps minimum).

d) 1 Giga ohm, 5%, 2W film resistor.

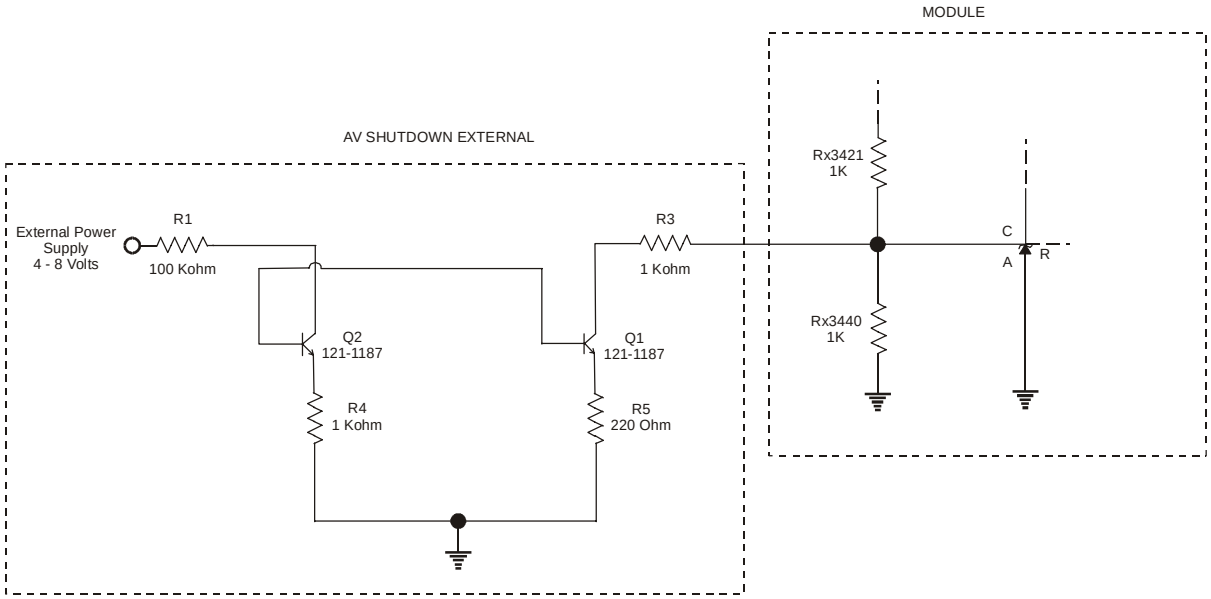
NOTE:

The external power supply may require a diode for blocking voltage from the chassis power supply to the external power supply. The diode should be connected between the positive output of the external power and B+ of the chassis.

The cathode should be facing the B+ of the chassis. The recommended diode is Part No. 103-00339-04A (400 V of VRRM @ 3 Amps of average rectified forward current).

CRT ANODE VOLTAGE

CRT Screen Size	Nominal Anode Voltage (kv)	Max Anode Voltage (kv)
19/20"	27.6	28.8
25"	27.6	28.8
27"	28.0	29.4
32"	30.0	31.0
36"	30.0	31.0



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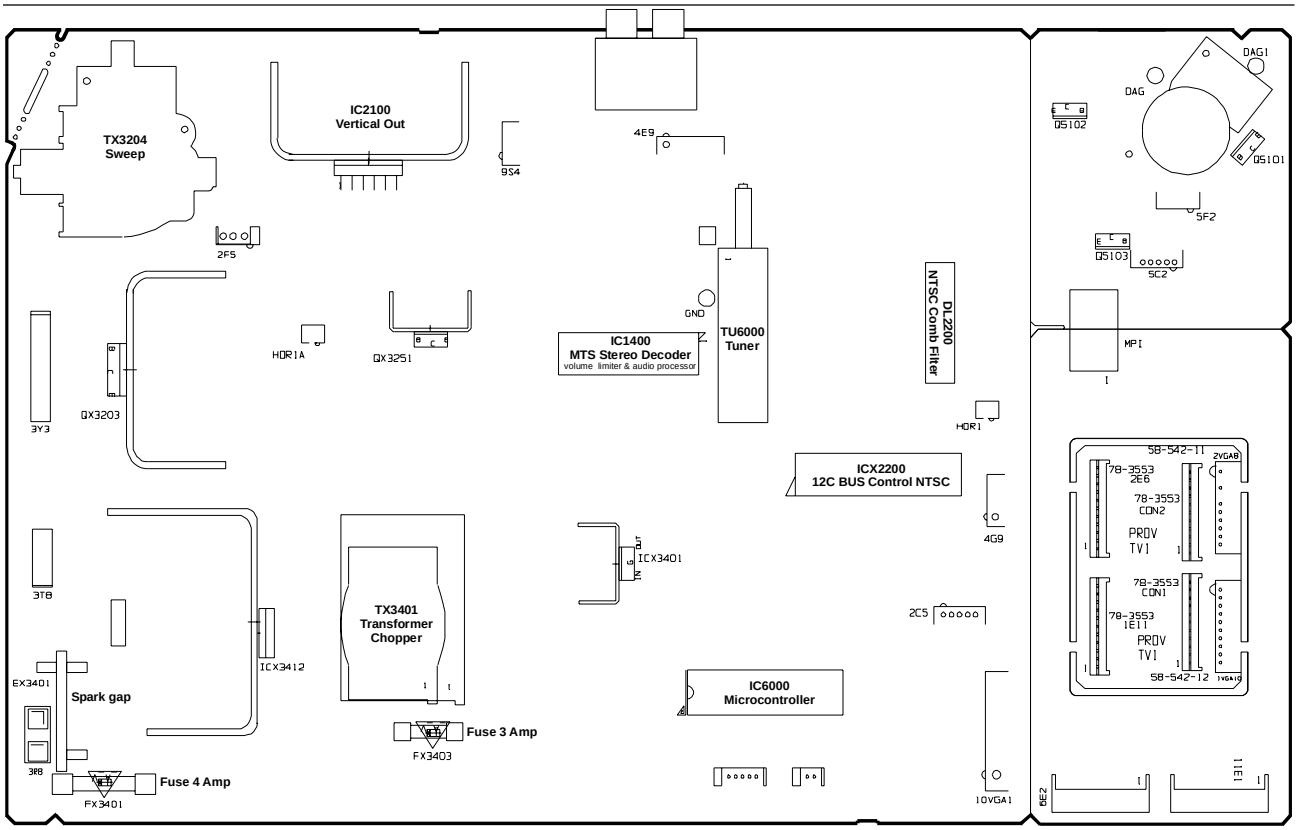
INTRODUCTION



INTRODUCTION

The CH series chassis will be used on the "B" line Commercial Products. This covers the 19, 20, 25, 27, 32, and 36 inch screen sizes. The concept of this chassis is to make one board for all models regardless of screen size. During the manufacturing process, the microprocessor will be programmed for the added features. Additional plug in boards with Jack Packs will be added to the chassis to accommodate the different features; PCZTV Scan Converter, Stereo, Mono, FM radio, etc. These sets do not have a comb filter.

The CH series chassis features seven ICs for all signal, sync, and sweep processing.

ICX2200 - Handles all of the audio/video, sync and sweep drive processing.

IC6000 - Main microprocessor. It is tied directly to the keyboard and the infrared detector.

IC6001 - System memory.

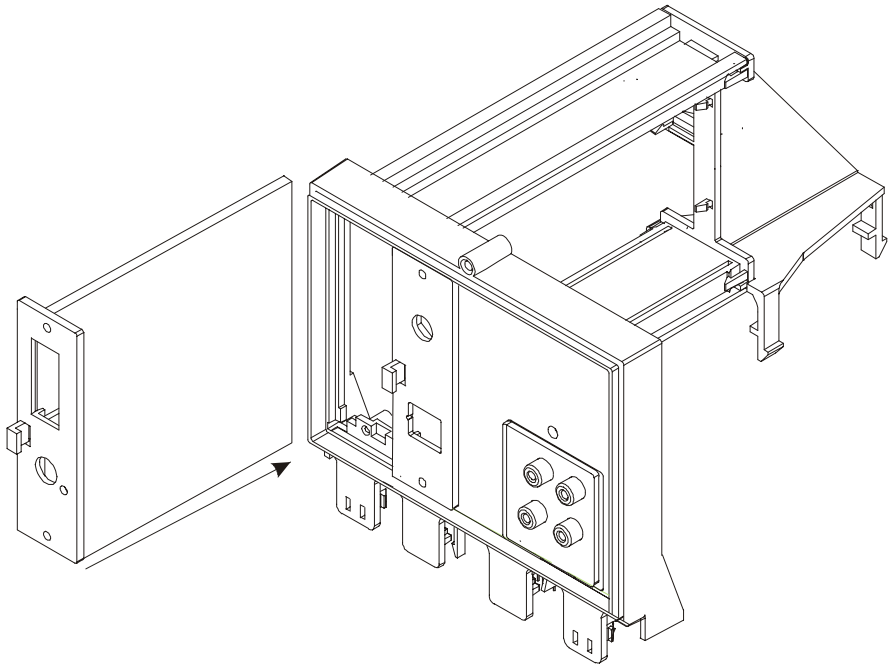
IC2100 - Handles vertical sweep.

IC2500 - Video switch.

ICX3412 - Power supply. This is a switching type supply powered by a bridge rectifier circuit. At turn on, voltages for the vertical and video output circuit are derived from the sweep circuit.

CH Chassis Model Information

MODEL	SCR	JACKS	AUDIO	EXTRA FEATURES	REMOTE	MICRO	OP GUIDE
COMPONENT LEVEL REPAIR							
H1934Y	19	3	Mono/FM	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03490
H2034Y	20	3	Mono	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03490
H2035DT	20	4	MTS/SAP/FM	SuperPort Slot, MPI Card	SC692Z	221-01390	206-03490
H2050DT	20	0	Mono/FM	SuperPort Slot, MPI Card, Pillow Speaker Jack	SC637Z	221-01390	206-03491
H2534Y	25	3	Mono	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03490
H2535DT	25	4	MTS/SAP/FM	SuperPort Slot, MPI Card	SC692Z	221-01390	206-03448
H2539Y	25	3	Mono	None	SC652Z	221-01390	206-03490
MODULE LEVEL REPAIR ONLY							
H2735DT	27	4	MTS/SAP	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03489
H3235DT	32	4	MTS/SAP	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03489
H3635DT	36	4	MTS/SAP	SuperPort Slot, MPI Card	SC652Z	221-01390	206-03489



CAMPORT

Some models have video and right/left audio input jacks at the front of the receiver. These jacks can be used to view video tapes from a VCR or Camcorder. When the video cable is plugged into the jack, the shorting jack J1 opens, placing a high at pin 10 of the IC6000 microprocessor. This switches the TV into the auxiliary mode. As long as the cables are attached, the TV set will be locked in auxiliary mode. Use of a remote control or buttons on the front of the set will not permit switching into tuner mode until the video cable is disconnected.

SUPERPORT - MPI

Zenith Commercial Product receivers are now being adapted to interact with other equipment. Prime examples of this can be found in Lodging and Health Care situations where the set is controlled from the main office.

All this is made possible by the new technology that is being built into these receivers. The SuperPort and/or Multiple Protocol Interface (MPI) jack and associated circuitry allow remote control of the set.

MULTIPLE PROTOCOL INTERFACE

Television functions and features are controlled by the communication of commands and status information through a Superport by the MPI interface.

EBC (EDGE BOARD CARD)

Allows easy access for removing/installing accessory modules providing a rail mounted slide-through card. These cards might contain one of the above features.

CONNECTION CENTER ON BACK OF TV

The connection on the back of the TV contains the input and output interfaces.

CONNECTION CENTER ON BACK OF TV

The connection center on the rear of the TV allows for connection of the viewing source. The diagrams list the use of each jack on the connection center.

1. ANTENNA/CABLE JACK

Use the jack for 75-ohm antenna-type signal connections to the TV. Attach antenna, cable TV line, or other video equipment to jack. The input cable may come from an outdoor or master antenna, cable TV line, cable decoder box, or the RF output from a VCR.

2. SUPERPORT LOCATION

Provides for easy installation of local service provider accessory module without removing the cabinet back. Module is housed inside the TV cabinet and receives operating power and all necessary interface signals through internal connections.

3. MPI (Multiple Protocol Interface) JACK

Standard RJ11 jack to provide interface with in-room entertainment and video services. Also used with installer's programmer (page 1-11) for programming other TVs in the system with the same features as the master TV.

4. VIDEO IN AND AUDIO IN

Use the Video and Audio In jacks for baseband video and audio input signals from a VCR or other signal source.

5. MATRIX SPEAKER OUT

Use this jack for connection of an 8-ohm extension speaker to get television sound at a remote location. The speaker in the TV remains active, while a monaural audio output is heard from the remote speaker.

6. PILLOW SPEAKER JACK

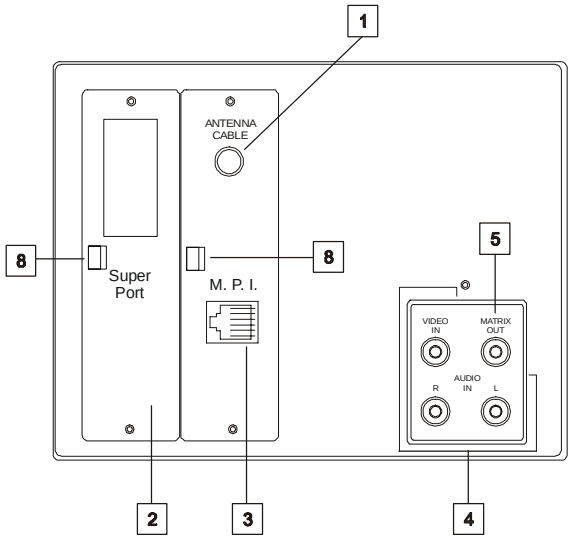
Use the 6-pin jack for connection of an optional pillow speaker or wired remote control unit. Recommended pillow speaker is Curbell Model A-6050-001 or equivalent. Pillow speaker/control unit is not provided with the TV.

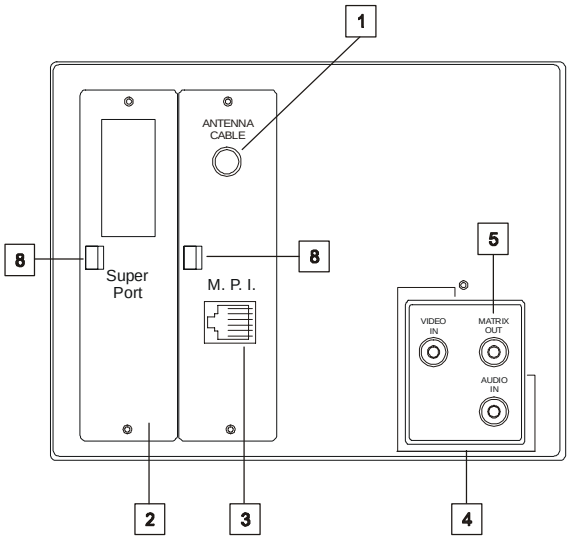
7. PILLOW SPKR/TV SPKR SWITCH

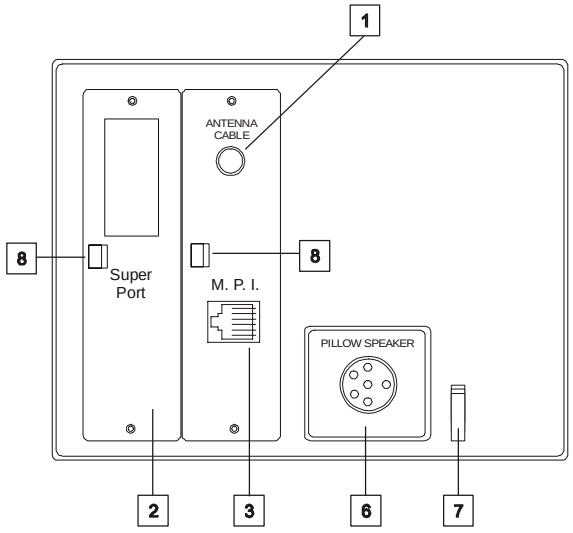
In the PILLOW SPKR Position - The pillow speaker is ON.
In the TV SPKR position - The built-in TV speaker is On.

8. EBC KNOB

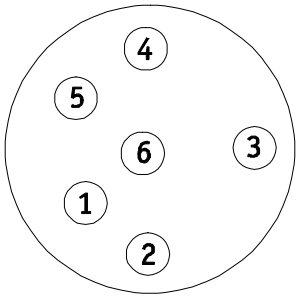
For handling-removal of EBC cover.







PILLOW SPEAKER INTERFACE



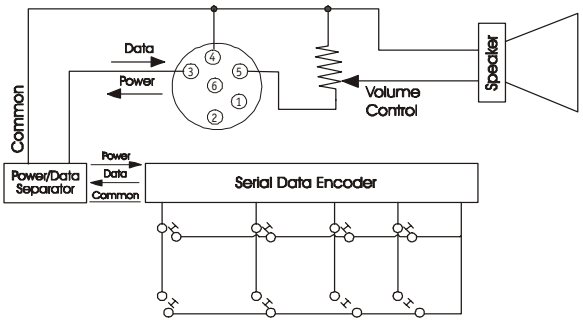
1 TV On/Off
2 Open
3 Chan Up/Data In
4 Common
5 Audio Out
6 Chan Down

Description

The pillow speaker interface within the TV, provides three remote control lines and an audio output. It is intended for connection to a patient-pendant remote control, or entertainment audio and nurse call system. All lines are isolated from the AC power line and ground. Isolation of the control lines is provided by optoisolators. These are no relays or inductive components in the control lines. Isolation of the audio output is provided by an optoisolator too.

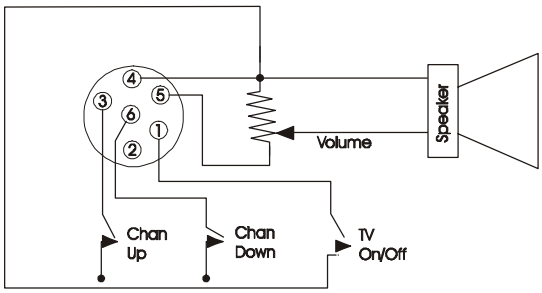
Purpose of Interface Pins
Pin #1 External TVON /OFF closure.
Pin #2 Open (not used).
Pin #3 External Channel Up Closure or Data In.
Pin #4 Common for External Control.
Pin #5 Audio Output. The impedance from this pin to earth ground is a nominal 10 Megohm static leakage resistor in parallel with an 1100 picofarad capacitor.
Pin #6 External Channel Down Closure.

Theory of Multiplexed Data Mode



Pins 3 and 4 support a built-in interface which allows multiple functions on a single wire by means of serial digital coding. Pin 3 will source up to 2 mA during the digital "0" interval to supply operating power for the digital encoder located in the pillow speaker. The coder must sink a minimum of 5 mA to pin 4 during the digital "1" interval and provide the correct serial data stream. Pillow speakers meeting this specification are available from independent manufacturers such as Curbell, Inc. (Manufacturers wishing to produce compatible pillow speakers or other products should contact Zenith Commercial Products for detailed specifications). An isolated audio output is at pins 4 and 5.

Theory of Simple Switch Mode



Mode pins 1, 3, and 6 are connected to pin 4 by way of momentary-action switches to activate indicated control function. These pins are 13 Vdc positive with respect to pin 14 when the switches are open. Loop current is 8 mA with the switches closed. Isolated audio output is at pins 4 and 5. Mode of operation is identical to previous Zenith models using the 5-Wire Interface with the exception of higher open circuit voltage (was 7 Vcd) and higher loop current (was 2.5 mA).

Settings Min/Max Volume Levels

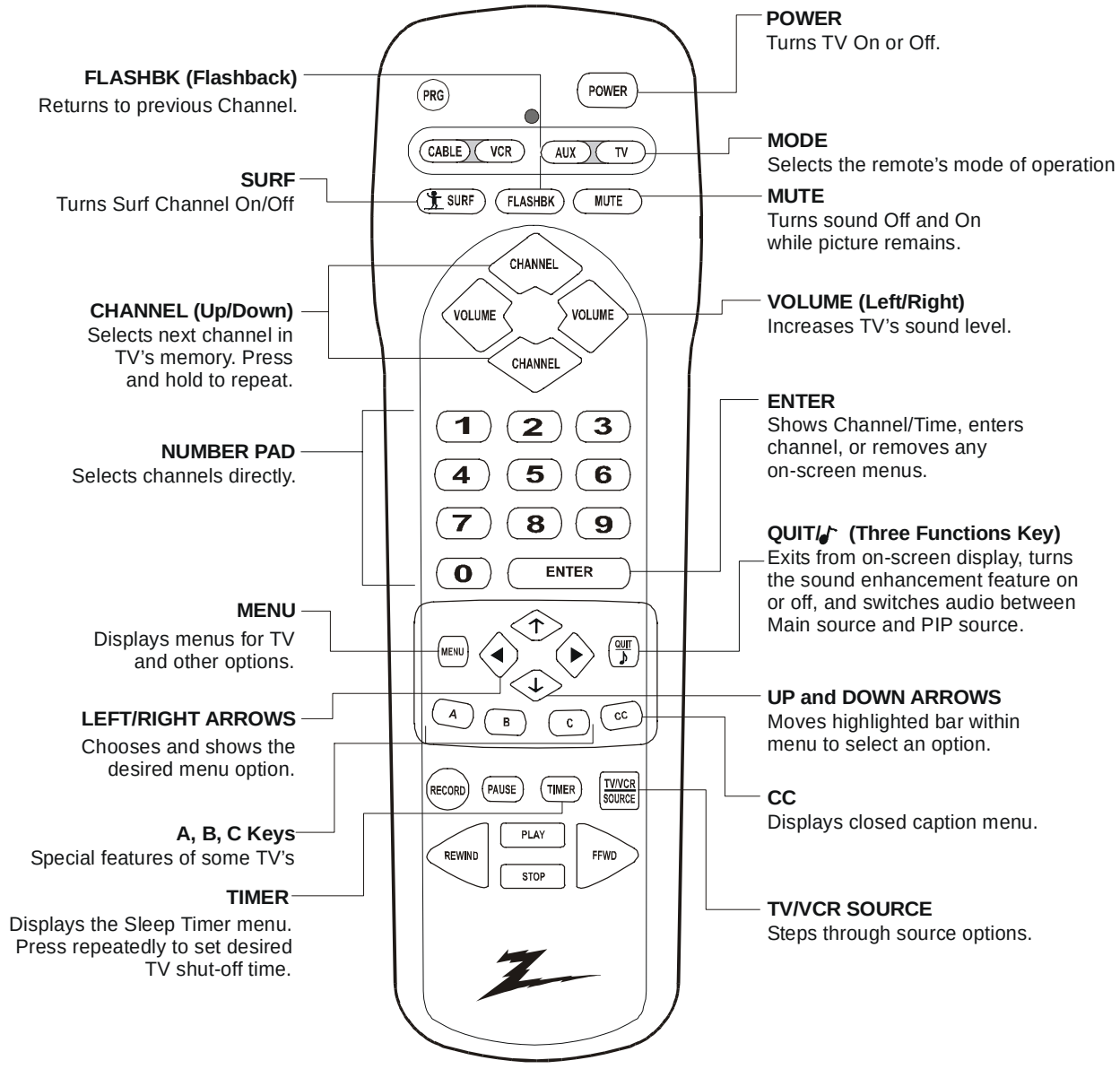
Use the following procedure to adjust minimum volume and maximum volume for pillow speaker. This procedure not only sets the maximum volume level that the pillow speaker can produce, but also prevents the TVs volume from accidentally being adjusted to level which is too low or too loud.

1. Connect pillow speaker. Place INT/EXT speaker switch on back of TV in EXT position.
2. Set VOLUME control on pillow speaker to maximum volume position.
3. Access Service Menu by following the instructions given in the “Service Menu” section of this book. Select the MAX volume. Use the **ADJUST** key to set highest desired volume level within the range of 0 to 63. This will be the highest desired volume level, as heard at the pillow speaker.
4. elect the MIN volume. Use the **ADJUST** key to set the lowest desired volume level within the range of 0 to 63. This will be the lowest desired volume level as heard at the pillow speaker.
5. Make no further adjustments and exit the Service Menu.

The TV is now adjusted for minimum and maximum volume settings. All further adjustments of the TVs volume should be made by using the VOLUME control on the pillow speaker.

USER REMOTE - MBR3447Z

To use the TV functions defined below, make sure that the remote is set to operate TV. Press TV on the remote to select TV.



POWER
Turns TV On or Off.

FLASHBK (Flashback)
Returns to previous Channel.

MODE
Selects the remote's mode of operation

SURF
Turns Surf Channel On/Off

MUTE
Turns sound Off and On while picture remains.

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

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

NUMBER PAD
Selects channels directly.

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.

MENU
Displays menus for TV and other options.

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

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

CC
Displays closed caption menu.

A, B, C Keys
Special features of some TV's

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

TV/VCR SOURCE
Steps through source options.

MBR3447Z
124-00233

Note: ***Keys dedicated to VCR functions will still operate the VCR while the remote is in TV mode.***

PATIENT REMOTE - SC637Z

HEALTHVIEW SERIES

This remote control is intended for use by patients, guests and others. It provides access to basic TV and FM radio operations.

POWER
Press to turn TV ON or OFF

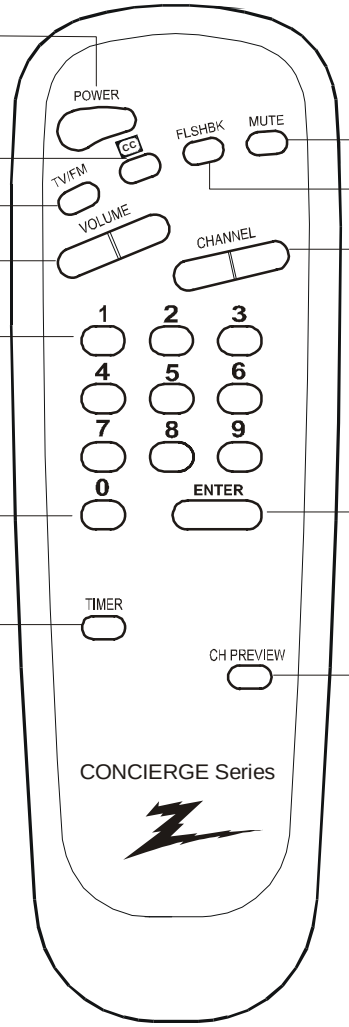
CC
Press to access closed captions.

TV/FM
Press to alternate between TV or FM operating mode

VOLUME
Press left to reduce or right to increase volume level of TV.

NUMBERED BUTTONS
Press repeatedly to select desired menu.

TIMER
Press to activate SLEEP TIMER.



MUTE
Press to turn off sound while picture remains. Press again to restore sound.

FLSHBK
Press to return to last TV channel you were watching.

CHANNEL Up/Down
Press to select a TV channel by going up/down through channels programmed in the TV memory.

ENTER
Press to view Channel/Time Display or to remove any on-screen menu or display in TV mode. Press to view the Music menu (active station) listing in FM mode.

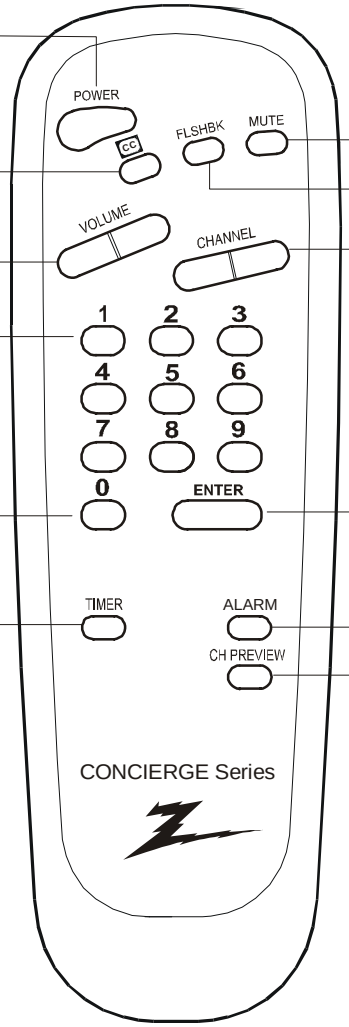
CH PREV
Displays on-screen, preprogrammed directory of station and network affiliations when in TV mode.

SC637Z
124-00213-05

GUEST REMOTE - SC652Z

CONCIERGE SERIES

This remote control is intended for use by guests and others. It provides access only to basic TV operations.



POWER
Press to turn TV ON or OFF

CC
Press to access closed captions.

VOLUME
Press left to reduce or right to increase volume level of TV.

NUMBERED BUTTONS
Press repeatedly to select desired menu.

TIMER
Press to activate SLEEP TIMER.

MUTE
Press to turn off sound while picture remains. Press again to restore sound.

FLSHBK
Press to return to last TV channel you were watching.

CHANNEL Up/Down
Press to select a TV channel by going up/down through channels programmed in the TV memory.

ENTER
Press to view Channel/Time Display or to remove any on-screen menu or display in TV mode. Press to view the Music menu (active station) listing in FM mode.

ALARM
Press to turn wake-up alarm ON or OFF.

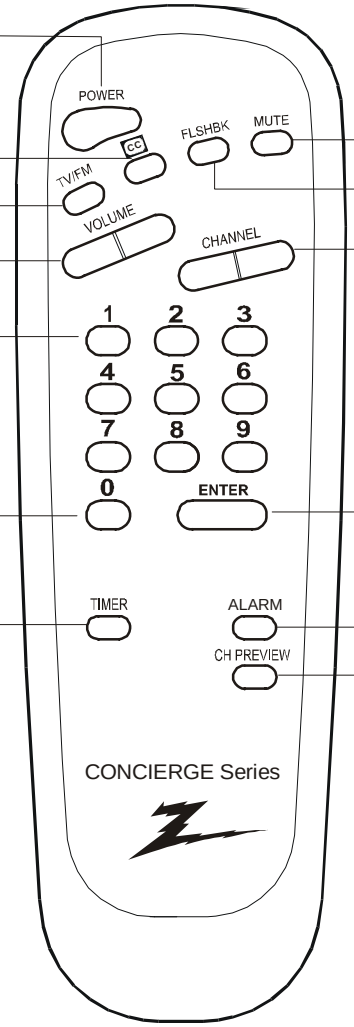
CH PREV
Displays on-screen, preprogrammed directory of station and network affiliations when in TV mode.

SC652Z
124-00213-02

GUEST REMOTE - SC692Z

CONCIERGE SERIES

This remote control is intended for use by guests and others. It provides access to basic TV and FM operations.



POWER
Press to turn TV ON or OFF

CC
Press to access closed captions.

TV/FM
Press to alternate between TV or FM operating mode

VOLUME
Press left to reduce or right to increase volume level of TV.

NUMBERED BUTTONS
Press repeatedly to select desired menu.

TIMER
Press to activate SLEEP TIMER.

MUTE
Press to turn off sound while picture remains. Press again to restore sound.

FLSHBK
Press to return to last TV channel you were watching.

CHANNEL Up/Down
Press to select a TV channel by going up/down through channels programmed in the TV memory.

ENTER
Press to view Channel/Time Display or to remove any on-screen menu or display in TV mode. Press to view the Music menu (active station) listing in FM mode.

ALARM
Press to turn wake-up alarm ON or OFF.

CH PREV
Displays on-screen, preprogrammed directory of station and network affiliations when in TV mode.

SC692Z
124-00213-03

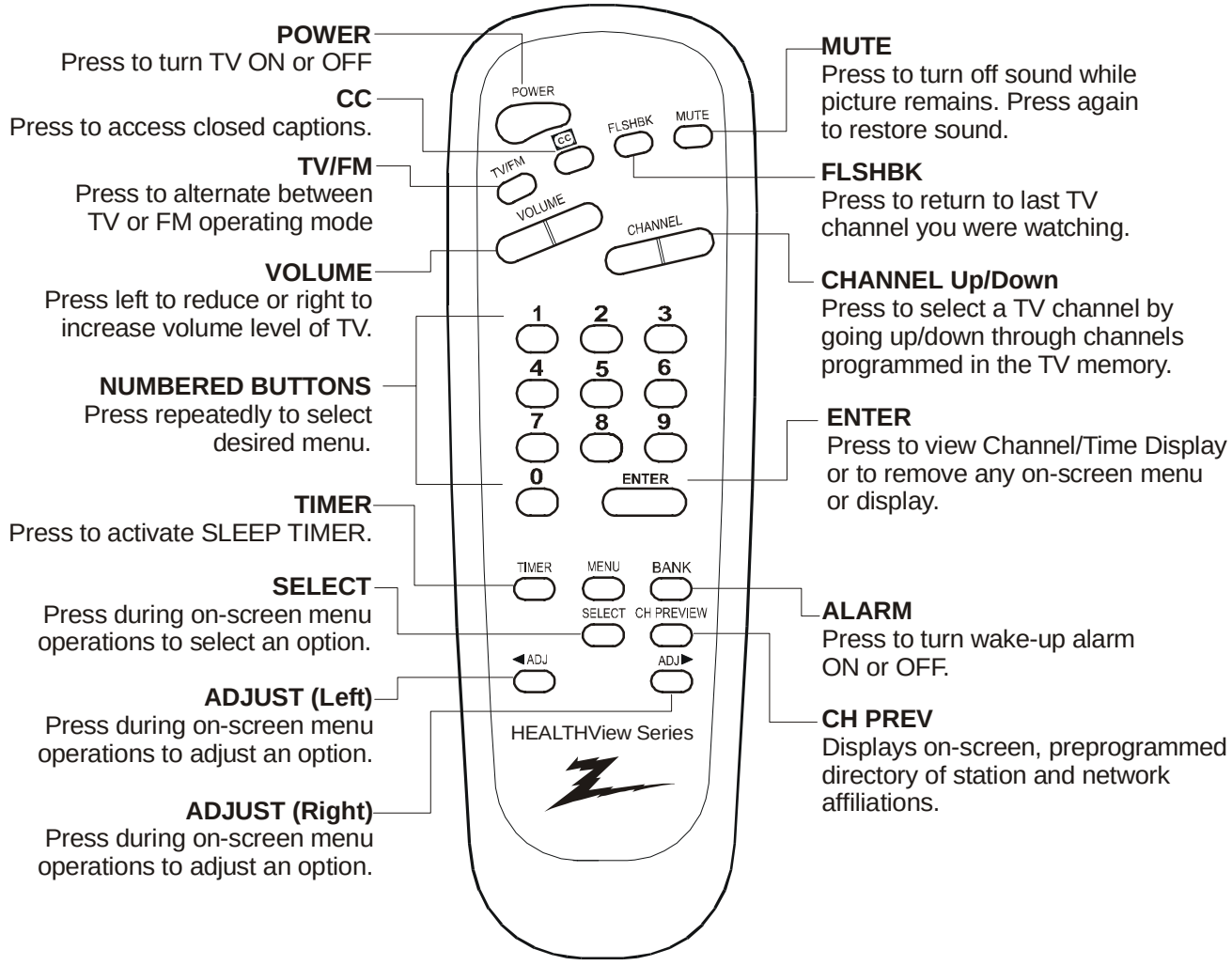
INSTALLER REMOTE - HP602Z

OPERATION

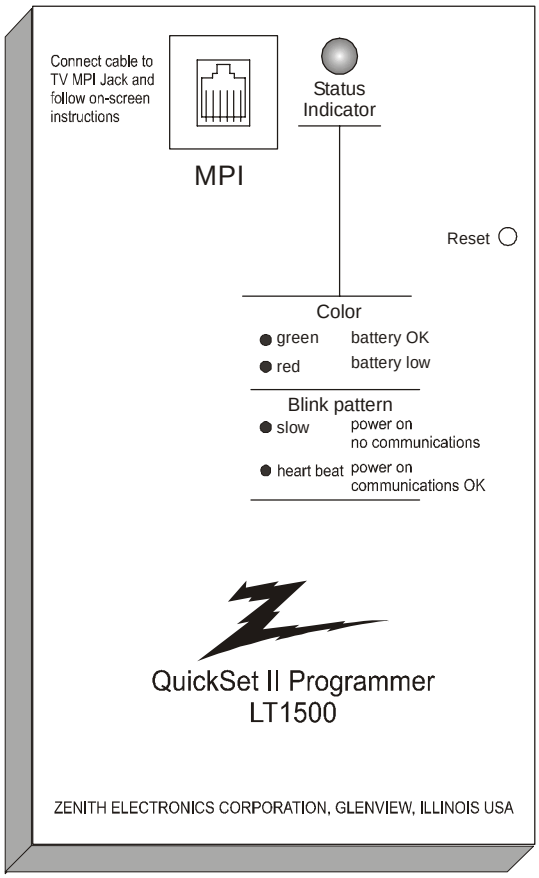
This remote control is available as an optional item for the equipment installer. It provides access to all on-screen menus and special features that cannot be accessed from the control panel on the TV.

PURPOSE

This installer's remote control is designed to aid installers in programming and setting up these TVs in lodging facilities.



HP602Z
124-00213-06



QUICKSET II PROGRAMMER

The QuickSet II programmer (LT1500) allows custom setup and programming information to be quickly copied from a master TV into multiple television sets. Once learned from the master, setup data is retained in the LT1500 for future use and recall.

When using the LT1500, operation will be easier if the TV is connected to a good-quality signal and operating with a stable picture displayed. To operate the LT1500, use indicated keys on an HP602 or LP702 installer's remote or MBR3447 user's remote, or the front panel keys on the TV receiver.

Begin programming process by setting up a master TV set using one of the installer's remotes or the MBR remote. Set all features that will be customized including channel scan list, channel labels, and installer menu setups. Follow instructions in the operating guide for the specific model TV.

Next, connect the LT1500 to the master TV set using the cable provided with the programmer. Connect the cable between the MPI jacks on the TV and programmer.

Connecting the programmer to a TV set automatically activates the programmer power-switching circuits.

Once connected, check the "Status Indicator" LED on the programmer. If the indicator is green and flashing a double-blink "heartbeat" pattern, proceed to next step.

Note: A slowly flashing green light indicates there is a problem with communications between TV and programmer. In this case, check for damaged cable, poor contacts, or other connection problems. If status indicator is red, the programmer batteries are low and should be replaced. Use 4 good-quality alkaline AA batteries.

If communications are good, the sign-on screen will be displayed on the TV screen as shown on the quick setup instructions that accompany the LT1500. If the intention is to set TV or programmer real-time clocks, and not the clone clock or TV clock time settings, then press a key to proceed to main clone menu.

If a previously stored TV setup is in a particular clone memory, it may be changed if desired by overwriting it with a new setup. There is no need for a separate memory clear operation.

Setups stored in programmer memory are nonvolatile and will be retained even after a battery change.

CLONE SELECTION MENU CHOICES

LEARN FROM TV

Select "Learn From TV" then press ON/OFF, POWER, or ENTER to begin learning process.

Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight choice.

Press ON/OFF, POWER, or ENTER to activate.

The next screen will allow a choice of four available memories to store this TV setup. With four memories available, four different TV setups can be stored in the LT1500.

Using the On-screen menu, choose a memory or choose to return to the main selection menu; then press ON/OFF, POWER or ENTER to activate your selection.

The next screen allows one last opportunity to check the versions of TV and clone setups.

Press ON/OFF or POWER to activate learning cycle, or press any other key to return to the selection menu to make other choices.

Once a process has begun, the TV screen will display "LEARNING IN PROGRESS". Please wait for the process to complete. When the TV screen displays "LEARNING COMPLETED", press any key to end the learning process and return to the clone selection menu.

TEACH TO TV

Select "TEACH TO TV", and then press ON/OFF, POWER, or ENTER to begin teaching process.

Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice, and then press ON/OFF, POWER, or ENTER to activate.

The next screen displays a choice of the four available memories that can be copied to the TV.

Select the desired memory number, and then press ON/OFF, POWER or ENTER to begin the teaching process. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight your choice.

Then press ON/OFF, POWER, or ENTER to begin.

Using the on-screen menu, select a memory or return to the main selection menu. Then press ON/OFF, POWER, or ENTER to activate the selection.

The next screen allows for one last opportunity to check the versions of TV and clone setups. Press ON/OFF or POWER to activate the teaching cycle, or any other key to return to the selection menu to make other choices.

Once a process has begun, the TV screen will display the "TEACHING IN PROGRESS" message.

Please wait for the process to complete. When the TV screen displays "TEACHING COMPLETED", press any key to end the teaching process and return to the clone selection menu.

SET CLONE CLOCK FROM TV

To initially set the real-time clock in the LT1500 or update the time, select "SET CLONE FROM TV" and then press ON/OFF, POWER, or ENTER to copy current TV time to the clone clock.

Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice. Then press ON/OFF, POWER, or ENTER to activate.

This process will return the LT1500 to the sign-on screen to display the clone and TV clock settings. Press a key to go to the clone selection menu and perform other functions, or simply disconnect if time setting was the last task.

DISPLAY TV SETUP

Select "DISPLAY TV SETUP", and then press ON/OFF, POWER, or ENTER to begin the teaching process.

Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight your choice. Then press ON/OFF, POWER, or ENTER to activate.

The TV screen will display the items in the service menu setups. Use this function to quickly check a TV for correct setup. Press any key to clear display and return to clone selection menu.

DISPLAY CLONE SETUP

Select "DISPLAY CLONE SETUP", and then press ON/OFF, POWER or ENTER to begin the teaching process. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice, and then press ON/OFF, POWER or ENTER to activate.

The TV screen will display the memory selection menu.

Select the desired memory number, and then press ON/OFF, POWER, or ENTER to display contents of selected memory. Alternatively, use the TV front panel CHANNEL UP or CHANNEL DOWN keys to highlight the choice, then press ON/OFF, POWER or ENTER to begin.

The TV screen will display items in the installer menu setups. Use this function to quickly check contents of a particular clone memory for correct setup.

Press any key to clear the display and return to the clone selection menu.

OPERATION NOTES

Disconnect the LT1500 from the TV set when the desired task has been completed. Disconnecting the clone automatically switches it off. The real time clock continues to run when the main circuits are switched off.

After replacing exhausted batteries, or if the programmer behaves strangely after a static shock, use a paper clip or similar instrument inserted through the small hole marked "RESET" to activate the internal reset switch and restore normal operation. After reset, check the real-time clock setting. It may be necessary to reset the clock from a TV programmed to the correct time.

Note: The LT1500 programmer is designed to be used with TV sets containing the 221-1390 and later microprocessors. Use with earlier TV sets may give unpredictable results.

The specific microprocessor used in any TV set may be determined by activating the service menu. The microprocessor part number appears at the top of the screen when the service menu is activated. Processors before the 221-01390 have a limited screen display capability. They cannot display entire screens as shown in the quick setup instructions accompanying the LT1500 programmer. Use the printed menu illustrations on the quick setup sheet as an aid to making programming choices.

INSTALLATION SETUP

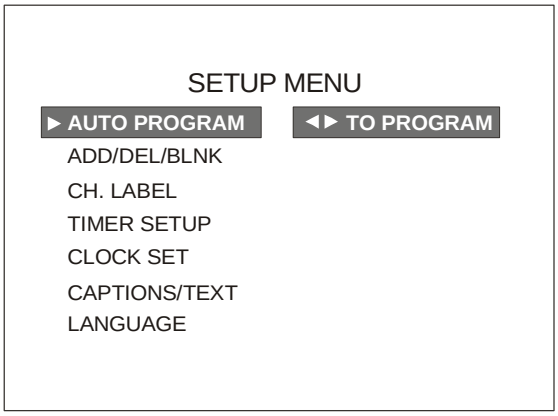
Installer's Remote and Clone Programmer

To perform the installation setup for several TVs, you need an installer's remote, such as the HP602Z (See 1-10), and the LT1500 Clone Programmer (See 1-11). The HP602Z Installer's Remote allows access to the Installer's Menu, User Menus, and Source/Channel Banks. The LT1500 Clone Programmer is used to duplicate a TV's setup and install it on one or more additional TVs.

Press the POWER key on the Installer remote control to turn on the TV.

SETUP MENU

Press the MENU key on the Installer's remote repeatedly so that the SETUP MENU appears on the screen.



AUTO PROGRAM

Using SELECT on the remote control, highlight AUTO PROGRAM on the screen. Then press a RIGHT/LEFT ADJ (Adjust) arrow button to reach the AUTO PROGRAM screen.

Using SELECT, choose either CABLE TV or OFF-AIR ANTENNA on your screen. (The flashing option is selected.)

Note: On some models, there are three jacks on the front of the TV that make connecting Audio/Video devices like Camcorders easy. To use the front jacks as the signal source, simply plug a composite video cable into the VIDEO jack. The TV will automatically change its source setting to CAMPORT, as indicated on the channel selection screen.

Press a RIGHT or LEFT ADJ arrow to begin the Channel Search. The receiver searches for available channels and stores them in memory for user access. Press ENTER when finished. Press the MENU key on the remote until the SETUP MENU reappears.

ADD/DEL/BLNK

Press SELECT repeatedly to highlight the ADD/DEL/BLNK option. Use the remote to select a channel. ADD/DELETE allows tailoring of the channel scan to eliminate unwanted channels and add desired channels that were not stored during Auto Programming.

Use the number keypad and ENTER to add a deleted channel. Using the RIGHT/LEFT ADJ arrows, pick whether a channel is Added, Deleted, or Blank. Blank is used by hospitals and institutions to send music or informational messages to an unused channel. When BLNK is selected, screen will be black while audio continues.

Select any other channels to be changed, and when finished, press ENTER to close the menu.

CH LABELS (Channel Labels)

Press the MENU key on the remote so that the SETUP MENU reappears.

Use SELECT to choose the CH LABELS option.

Pressing either the RIGHT/LEFT ADJ arrow repeatedly, pick the label you want from the list of available selections shown in the chart. Select other channels, and when you are finished, press ENTER to remove the menu.

Note: Although the next item on the Setup Menu is Timer Setup, the clock must be set first.

CHANNEL LABELS

A&E	CMTV	ESPN	HSE	NOS	TBN	VC
ABC	CNBC	ESPN2	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

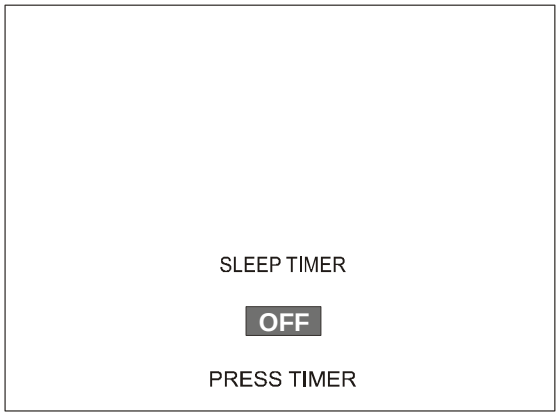
Note: Selecting this label option means the channel will not be displayed on the channel/time/audio signal display. Selecting the none option means the channel will not have a label.

TIMER SETUP

Press MENU to show the SETUP MENU. Use SELECT to highlight TIMER SETUP.

With TIMER SETUP highlighted, use the RIGHT/LEFT ADJ arrow to pick from the preset times, the time that the TV will turn itself off, or set the SLEEP TIMER to Off to disable it.

Press ENTER to set the timer and return to TV viewing.



The Sleep Timer may be instantly set by pressing the TIMER key repeatedly. When you have made your selection, press ENTER to set the Sleep Timer and return to TV viewing.

CLOCK SET

Press MENU repeatedly to show the Setup menu. Use SELECT to highlight Clock Set.

Set the current time; use the Number keypad to enter the hours, then minutes. For example, enter 06, then 30, to set 6:30 on the clock. Use the TIMER key to specify AM or PM.

Press ENTER to start the clock and return to TV viewing.

CAPTION/TEXT

Using SELECT on the remote control, select CAPTION/ TEXT on the screen.

Use the RIGHT/LEFT ADJ arrows to choose any of the following options: CAPTION 1, CAPTION 2, CAPTION 3, CAPTION 4, TEXT 1, TEXT 2, TEXT 3, or TEXT 4.

Press ENTER to close the menu.

Select CAPTIONS directly by pressing CC repeatedly to choose OFF, CAPTION 1, 2, 3, 4 or TEXT 1, 2, 3, 4.

CAPTION/TEXT is a feature that allows the TV to receive closed captions and/or text options when made available by the broadcaster.

Notes:

- ***Availability and functionality of the CAPTION/TEXT features are determined only by each broadcaster and may not be available in your area.***
- ***CAPTIONS - The term for the words that scroll across the bottom of the TV screen; usually the audio portion of a program, provided for the hearing impaired.***
- ***TEXT - The term for the words that appear in a large black frame that almost covers the entire screen; usually messages provided by the broadcaster.***

Press the MENU key on the remote control to return to the Setup menu.

LANGUAGE

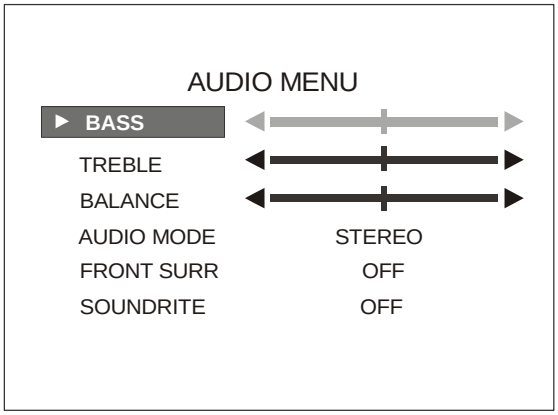
Press SELECT on the remote control and repeat to highlight LANGUAGE on your screen.

Press a RIGHT/LEFT ADJ arrow to choose one of the following options: English, Spanish or French.

Press ENTER to return to TV viewing.

AUDIO MENU

Press MENU repeatedly on the remote control until the AUDIO MENU appears.



Using SELECT on the remote control, highlight the setting you want to change. Choose from:

- BASS: Adjusts the amount of Bass (low frequency level) in the sound. Has 15 steps (0 to 14)
- TREBLE: Adjusts the amount of Treble (High frequency Level) in the sound. Has 15 steps (0 to 14)
- BALANCE: Adjusts the balance of sound between the left and right speakers. Has 15 steps (0 to 14).
- AUDIO MODE: Selects between stereo, Mono, Stereo or 2nd Audio/SAP. If 2nd Audio/SAP is selected, but current channels does not support SAP, then either Stereo or Mono will be heard.

- FRONT SURR: can be set 'On' or 'Off', regardless of the current Audio Mode setting. However, the Front Surround effect can only be heard when the Audio Mode has been set to 'Stereo' and a Stereo signal is present.
- SOUNDRITE: Used to obtain a uniform volume level, particularly while changing channels. The SoundRite feature can be best demonstrated on a channel with no signal (snow).

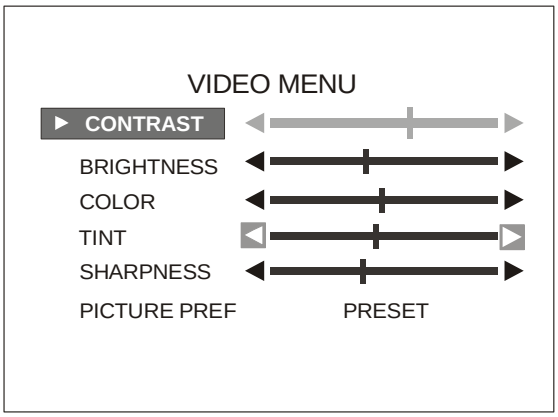
Note: The Hospital chassis does not have the above listed Audio Menu. Instead, it only has the option to turn the speakers On or Off.

Press a RIGHT/LEFT ADJ arrow to adjust or change the option you have selected.

Press ENTER to return to TV viewing, or press SELECT to return to the Audio Menu to adjust another option.

VIDEO MENU

Press MENU repeatedly until the Video Menu appears.



Your options are:

- CONTRAST: Adjusts the contrast of the picture (difference between white and black). Has 64 steps (0 to 63).
- BRIGHTNESS: Adjusts the brightness of the picture (amount of white). Has 64 steps (0 to 63).
- COLOR: Adjusts the intensity of the color. Has 64 steps (0 to 63).
- TINT: Adjusts the tint of the color picture (balances between amounts of red and green in the TV picture). Has 64 steps (0 to 63).
- SHARPNESS: Raises or lowers the definition of the TV picture. The lower the level, the softer the images will appear (adjusts the sharpness of the picture). Has 64 steps (0 to 63).
- PICTURE PREF: Has two settings; PRESET and CUSTOM. In the Custom mode the brightness, contrast, color and tint can be set to a users particular liking. The preset settings brings up the factory setting for these controls. Preset is selected automatically after an AC power interrupt.

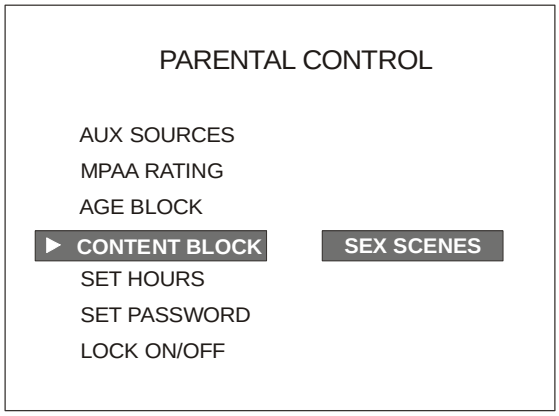
Use SELECT on the remote control to highlight the setting you want to change.

Press a RIGHT/LEFT ADJ arrow to adjust or change the option you have selected.

Press ENTER to return to TV viewing, or press SELECT to return to the Video Menu.

PARENTAL CONTROL

This optional feature can be used to prevent (block) unwanted programming from appearing on your TV.



PARENTAL CONTROL offers the user a wide variety of options and settings that restrict or block programming that can appear on the TV. PARENTAL CONTROL allows users the capability of defining which program ratings they consider acceptable to younger or more sensitive viewers.

PARENTAL CONTROL can be preset and turned on or off by a user who specifies the 4 number password. The number of hours blocked may also be specified.

General audience and children viewer blocks can both be programmed into the TV's memory. Viewer ratings are specified for both the TV industry and the motion picture industry; both rating systems can be used. The ratings are based mainly on children's ages.

OVERVIEW

To ensure complete coverage for all TV programs (movies and regular TV shows), choose ratings from the Motion Picture Association of America (MPAA) Rating System chart and the TV Parental Guidelines Rating System chart (both shown below). Use the AGE BLOCK option for General Audiences and for Children. You can also add additional restrictions from the CONTENT BLOCK menu.

Things to Consider before Setting Up Parental Control: Determine which ratings you consider acceptable for viewing. (For example, if you choose TV-PG, all of the more restrictive ratings will be blocked automatically: the viewer will not be able to see TV-PG, TV-14, or TV-MA rated programming.)

Select whether auxiliary video sources will be blocked in the AUX SOURCES block option. (Blocks signals from VCRs, DVD players, etc. connected to the TV Audio/Video input jacks). You could also leave AUX SOURCES unblocked, and then choose allowable ratings.

In the CONTENT BLK option, you can block program Content based on individual parameters such as Strong Dialog, Bad Language, Sex Scenes, Violence Scenes, or Fantasy Violence Scenes.

You can set PARENTAL CONTROL to be active in the SET HOURS option for up to 12 hours.

Use the number keys on the remote to select a secret password in the SET PASSWORD option. Don't forget the password, as it is the only way you can access the PARENTAL CONTROL menu and change rating selections or turn PARENTAL CONTROL off. If you do not want PARENTAL CONTROL to be active all the time, you can turn it on or off with the LOCK ON/OFF option.

Notes:

- ***You can set different PARENTAL CONTROL viewing restrictions for general audiences and for children - - both can be active at the same time.***
- ***Simply specifying one content block such as Sex Scenes, will not automatically block another type of content in the programs from appearing.***
- ***Even if you choose to leave the AUX INPUTS unblocked, the ratings you specify will automatically restrict the programming that appears from the video sources.***

MOTION PICTURE ASSOCIATION OF AMERICA (MPAA) RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
PG	Parental Guidance Suggested	Content is such that parents may not want their children to view the program.
PG-13	Parental Guidance Suggested	Program is inappropriate for preteens, with a greater degree of offensive material than a PG-rated program.
R	Restricted viewing	Not for children under age 17. Strong elements of sex and/or violence.
NC-17	Restricted Viewing	Not for children under age 17 under any circumstances. Strong sexual content.
X	Hard Core Films	Same as NC-17 rating.

Note: Zenith Electronics Corporation is not liable for any program content that appears when using this rating system; as always, user discretion is advised.

TV PARENTAL GUIDELINE RATING SYSTEM

G	General Audiences	Content not offensive to most viewers.
TV-G	General Audience	Considered suitable for all audiences; children may watch unattended.
TV-PG	Parental Guidance Suggested	Unsuitable for younger children, may contain: Suggestive Dialog, Bad Language, Sex, and Violence Scenes.
TV-14	Parents Strongly Cautioned	Unsuitable for children under 14, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
TV-MA	Mature Audience Only	Adults only, may contain: Strong Dialog, Bad Language, Sex, and Violence Scenes.
CHILDRENS' CLASSIFICATIONS		
TV-Y	Children	Considered suitable for all children under 7 years old.
TV-Y7	Children 7 and over	Considered suitable for children over 7, may contain Fantasy Violence Scenes.

- ***You cannot disable PARENTAL CONTROL by disconnecting the TV from power. Block hours will automatically reset to the original block time setting specified if power is disconnected.***
- ***To reset the password, use the installer's remote control to deactivate the V-Chip in the Installer's menu (#53). Exit out of the Installer's Menu after deactivating the Parental Control. Then enter back in and reactivate the V-Chip.***

With the PARENTAL CONTROL menu on-screen, use SELECT to choose an option, such as CONTENT BLOCK. Use the LEFT/RIGHT ADJ arrows to show the CONTENT BLOCK menu, to adjust or set the rating for an option.

To block sex scenes, for example, use the "TV-PG and above" setting. To block dialog, use LEFT/RIGHT ADJ arrows to select among UNBLOCKED, TV-PG and above, or TV-14.

(See the Ratings Charts for rating meanings.)

After you have selected and adjusted the PARENTAL CONTROL menu options to your preferences:

- Set the number of hours Parental Control will be on.

- Set a 4 number password.

- Set the Lock On/Off option to either on or off.

Note: Some broadcasts do not include ratings information.

Channel/Time/Audio Display

Press ENTER. Shows currently selected channel or source, current time if the clock has been set, and incoming audio signal.

ALARM MENU

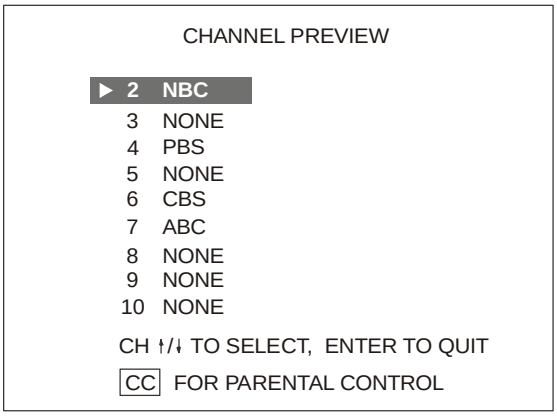
Press ALARM. Sets the time the wake up alarm will sound.

CH PREVIEW MENU

Press CH PREVIEW. Displays list of the available TV Channels, Guest Parental Control menu (if active) and Video Channel access.

Press CHANNEL UP/DOWN to select a channel, or menu, then ENTER to go to channel or menu.

Pressing CC will activate the Parental Control menu.



CAPTIONS DISPLAY

Press CC. Sets Caption/Text options: Off, Caption 1, 2, 3, 4 or Text 1, 2.

RADIO FEATURE

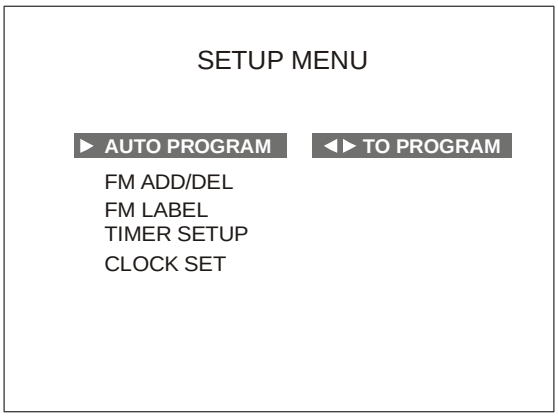
Pressing the TV/FM key allows the customer to listen the Radio.

The Auto Program feature automatically searches for all available Radio Stations and marks them as 'added' so that they may be accessed via the channel Up/Down key.

In the Auto Program screen:

- A message at the top displays "Auto Program" to let the customer know that they have entered the Auto Program feature.
- Up/Down and Left/Right Arrow keys are used for Auto Program selections.
- The current RF input type (Off Air Antenna or Cable TV) is highlighted. Use the Up/Down Arrow keys to change the RF input type.

To start the Auto Program, press the Left/Right Arrow key.



Note: ***While searching for radio stations, 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 no radio stations are found, then the following message will appear: "Make sure that the antenna is connected, and try again".***

FM ADD/DEL

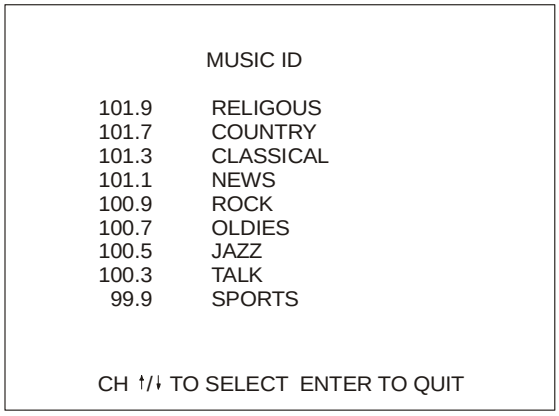
Allows tailoring of the station scan results to eliminate weak and unwanted stations. Use FM ADD/DELETE to get rid of unwanted stations or to program back in a previously deleted station.

Note: ***After using the FM Add/Del function, return to TV mode (press TV/FM key) before turning the TV off. This ensures that the FM Add/Del changes are saved in memory.***

FM LABELS

Use FM Label to assign a label for the type of radio station shown in the Music ID display. For example, if the label ROCK is assigned to FM station 100.9, then ROCK will appear in the active stations list next to FM 100.9, whenever the Music ID display is shown. Labels available (besides Blank) include:

CLAS =	Classical	OTHE =	Other
COUN =	Country	RELI =	Religon
JAZZ =	Jazz	ROCK =	Rock
NEWS =	News	SPOR =	Sports
OLDI =	Oldies	TALK =	Talk



TIMER SETUP

Turns on the FM Radio's Sleep Timer menu. Select TIMER SETUP, then press RIGHT/LEFT ADJ to choose the time the FM radio is to remain on before it turns off. Choose from 15 minutes to 4 hours. Once the turn off time has been selected, press ENTER to activate the timer and close the menu.

CLOCK SET

Sets the clock in the receiver.

Note: ***If clock had been set in the TV menu mode, there is no need to set it in the radio mode.***

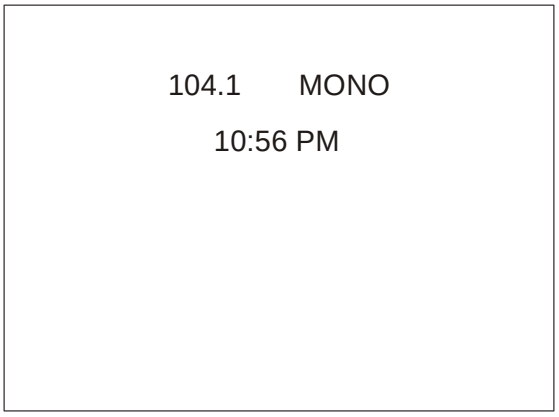
AUDIO MENU FOR RADIO

Use to adjust the sound options to your preferences. The display shows either Mono, Stereo or Muted.

Mono sets will only show the option to turn the speakers On or Off.

RADIO SCREEN SAVER

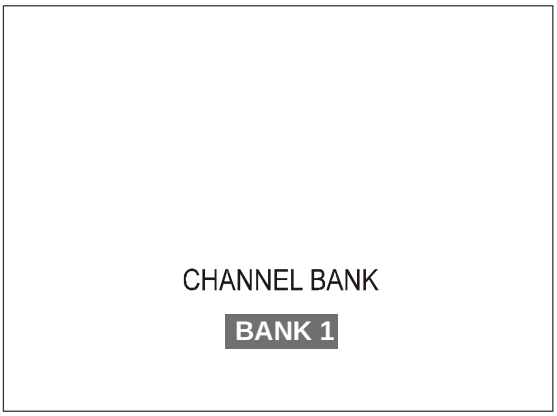
When the customer is done with setup, the radio screen saver turns on. The radio screen saver displays the Radio station, the audio mode, and the time as seen below.



This display is also scrolling down. Once the display reaches the bottom, it starts back at the top and keeps scrolling down. This scrolling occurs until the Menu key or the down arrow is pressed.

CHANNEL BANK

Allows to choose between one of 4 channel banks. Press SOURCE to change between banks.



PLANNING THE CHANNEL BANKS

Generally, TV channels are grouped into "program packages" with terms that are proposed to the end user. The user then opts for a package. Below is an example of how TV channels may be grouped.

Channel Bank	Program package
1	Basic cable channels
2	Extended cable channels
3	Extended with premium channels
4	Other cable service options

Sometimes only one or two channel banks may be needed. You may leave any unused bank with the channels. However, you may want to leave at least one channel in any unused bank. Then, if someone selects an unused bank, that channel will assure them that the TV is functional.

Note: Some channels left over from factory testing may still be in the channel banks if you have not yet run Auto Program.

ADDING/DELETING CHANNELS

A previously prepared programming chart is helpful.

1. Run AUTO PROGRAM (in the SETUP MENU). The channels available at your cable/antenna will be entered in all channel banks (1, 2, 3 and 4).

Notes:

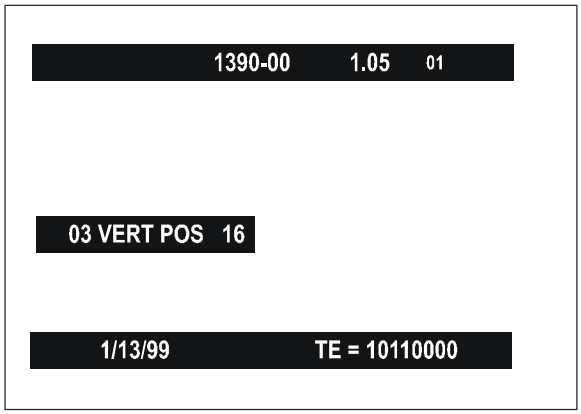
- ***Channels previously blanked will be cleared; channels entered that are not currently available will be deleted.***
- ***The Blank Channel feature is global. A channel will be blanked in all channel banks.***

2. Select a channel bank with a remote press SOURCE/ BANK (and repeat). The Channel BANK and BANK number will be displayed.
3. Use the ADD/DEL/BLNK option (also in the SETUP MENU) to customize your program package. You may delete channels or add some that have not been entered. You can also Blank a channel to accommodate an audio-only program source or for in-house communication. The ADD/DEL/BLNK option has more details.
4. Repeat steps 2 and 3 to program another channel bank.

It is best to do ADD/DEL customizing before doing BLANKING. ADD and DEL (not BLNK) can be used independently for channel banks 1, 2, 3, and 4).

INSTALLERS MENU ADJUSTMENTS

To access the Installer's Menu, press and hold the MENU key until the User Menu display disappears, then press 9876, and then ENTER to access the Installer's 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 Installer's menu appears, it displays the fourth Service 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.

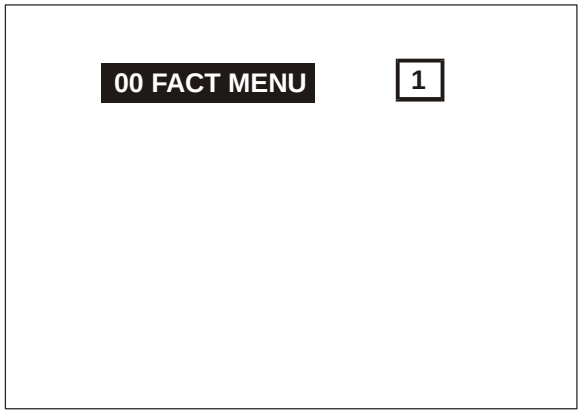
00 FACT MENU: Use SELECT UP and DOWN Keys to select item 00, the Factory Mode. This item is used by the Factory when the module is being tested. It has two positions: 0 and 1. In the field, this item should always be left off (Zero is off).

When this item is off, only the first twenty-three items in the Installer's Menu can be accessed. They appear one at a time near the middle left of the screen. When this item is set to 1, 54 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 Installer's Menu. The TV set will automatically come on when AC is applied.

Use the remote to reenter the Installer's Menu to turn the Factory Menu off. The Factory Mode may also be turned off by setting the clock, or running the Auto Program feature in the customer Set Up menu.



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 POWER MANAGE: Range is 0-7. 1-7 is the length of time (in hours) that the set will continue to operate if unattended. When the set nears turnoff time, an on-screen message appears telling you to press any key to continue normal viewing. When set to 0, this feature is inactive.

03 VERT POS: Moves On-Screen Displays vertically. The Range is from 0-25. This adjustment is generally set at 5.

04 HORZ POS: Moves On-Screen Displays horizontally. Range is from 1-15. Generally set at 9.

05 BAND/AFC: 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 MIN VOLUME: Allows adjustment of minimum volume level. Range is 0-63. When this item is set to 0, the sound level can be adjusted down to zero.

07 MAX VOLUME: Allows the adjustment of maximum volume level. Range is 0-63. When this item is set to 63, the set has full adjustment capability.

08 AC ON: Has two positions; 0 is off, and 1 is on. In ON position, the TV set will turn on and off when AC power is applied.

09 KEY DEFEAT: Disables unmarked menu buttons on the TV's control panel. Range is 0-1. 0 is off and 1 is on. Set to 1 (On) to turn the keys off.

10 STRT CH/VOL: Determines the channel that is selected automatically each time the TV is turned on and sets the audio volume level at turn-on. Range is 0-255. 0 is the Aux position and 255 is Off. Use ADJUST to change the channel number. START VOLUME is to be set before setting the start channel. Use the volume control to set the volume level.

11 HOSPITAL MODE: Range is 0-2. 0 is off. 1 is Hospital Bed 1 using Zenith Private Label IR Codes 21 or 121. 2 is Hospital Bed 2 using Zenith IR Codes 1 or 101. When item 22 (Feature Level) and HOSPITAL MODE are set to 0, Private Label is activated.

12 CHAN LOCK: Defeats tuning operations. Range is 0-1. 0 is Off and 1 is On. Use the START channel to lock on a particular channel.

13 GHOST CH: Ghost channel when item #11 is set to zero. Zero is off and 1 is on. When on, the channel number will stay on screen at all times, unless captions are present. The number moves slightly to prevent damage to the screen. If captions are on, ghost channel will not be present.

14 SCAN MODE: Range is 0-3. The sets turn off when channel scan buttons are being used. In 0 mode, scan off is inoperative. In position 1, the set will turn off between auxiliary and lowest channel. In position 2, the set will turn off between auxiliary and FM. In position 3, the set turns off after an FM station scan.

Scan Mode	Characteristics
0	AUX, TV, VCR3, VCR4
1	AUX, TV, VCR3, VCR4, ON/OFF
2	AUX, TV, VCR3, VCR4, FM
3	AUX, TV, VCR3, VCR4, FM, ON/OFF

15 TEXT MODE: Turns text mode on or off in the users menu. Range is 0-1. Zero is off and one is on. In on mode, user can call up text mode. Set to 0 unless text is being used.

16 SLEEP TIMER: Enables sleep timer feature. Range is 0-1. Zero is off and 1 is on.

17 ALARM: Enables Alarm feature. Range is 0-1. Zero is off and one is on.

18 CH OVER RIDE: Zero is off, one is on. In on mode, the TV works normally. This item is generally set to off so it can be controlled with entertainment unit. In off mode; Auto Program and Channel Add/Delete do not function.

19 OLD OCV: (On Command Video) Zero is off, one is on. Set to one for operation with "Spectramate" systems from On Command Corporation.

20 CAPTION LOCK: Zero is off, 1 is on. Set to 1 for operation to restore previous on/off state after TV is initially turned on.

21 FUNCTION PRE: (Function Menu Channel Preview) Range is 0-1. Zero is off and one is on. Set to 1 to suppress channel preview screen in the function menu with some pay per view systems.

22 FEATURE LEVEL: Range is 0-1. Zero is Zenith Private Label and one is Zenith**.** When item 11 (Hospital Mode) and FEATURE LEVEL are set to 0, Private Label is activated.

23 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.

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

25 RF BRT: (RF brightness) Sets adjustment range of customer control for brightness in RF mode. Range is 0-63. A typical value is 30.

26 AUX BRT: (Auxiliary Brightness) Sets adjustment range of the customer control for brightness in AUX mode. Range is 0-63. Typical value is 30.

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

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

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

30 VERT PHASE: (Vertical Phase) Range is 0-7.

31 HORZ PHASE: (Horizontal Phase) Range is from 0-31.

32 AUD LEVEL: Sound Attenuation range is 0-63.

33 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.

34 HORZ AFC: Range is 0-1. Set to 0. 0=AFC2 Normal. 1=AFC2 X 3.

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

36 60HZ SW: (60 Hertz Switched) The range is 0 to 2.

32 MAX CONTRAST: Sets adjustment range of customer control for contrast. Range is from 0-63. Set to 63.

33 60HZ SW: A sync stability item. Range is 0-1. Zero is off. Set to 0.

34 PIF VCO: Range is 0-127.

35 WHITE COMP: 0 is off, 1 is on.

36 60HZ SW: Range is 0-2.

37 PIF VCO: Range is 0-127.

Items 38 through 42 vary with CRT*

38 RED CUT: B&W tracking adjustment. Range is 0 to 255. Typical value is 20.

39 GREEN CUT: B&W tracking adjustment. Range is 0-255. Typical value is 0.

40 BLUE CUT: B&W tracking adjustment. Range is 0-255. Typical value is 28.

41 GREEN GAIN: B&W tracking adjustment. Range is 0-255. Typical value is 45.

42 BLUE GAIN: B&W tracking adjustment. Range is 0-254. Typical value is 70.

43 6 KEY SYSTEM: Keyboard type. Set to 1 for 6 key and 0 for 10 key.

44 A ATT: Input level adjustment. Range is 0-15.

45 STEREO VCO: (Stereo Voltage-Controlled Oscillator) range is 0-63. Typical value range 10-39.

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

47 A SPECTRL: Adjustment of stereo seperation (3kHz). Range is 0-63.

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

49 MAX BLK HRS: Maximum amount of hours before the Parental Control password expires. Range is 0-99.

50 STEREO: Enables stereo circuitry if present. Range is 0-1.

51 RADIO: Enables Radio circuitry if present. Range is 0-1.

52 AUX: Enables Aux. Sources. Range is 0-1.

53 V-CHIP: Enables Parental Control. Range is 0-1.

* Adjust only if CRT has been changed. The “CUT” adjustments affect the Lowlights and the “GAIN” adjustments affect the Highlights.

FACTORY MENU SETTINGS FOR 221-1390							
ITEM	RANGE	H1934Y	H2034Y	H2035DT	H2050DT	H2534Y	DESCRIPTION
00 FACT MENU	0-1	0	0	0	0	0	Factory mode - refer to page 2-1
01 PRESET PX	0-1	1	1	1	1	1	Used to store customer menu adjustments
02 POWER MANAGE	0-7	0	0	0	0	0	Hours TV will operate if not attended
03 VERT. POS	0-30	15	15	15	15	15	Moves On Screen display vertically
04 HORZ POS	0-45	9	9	9	9	9	Moves On Screen display horizontally
05 BAND/AFC	0-7	0	0	0	0	0	Broadcast Band adjustment
06 MIN VOLUME	0-63	0	0	0	0	0	Sets min. customer volume level
07 MAX VOLUME	0-63	63	63	63	63	63	Sets max. customer volume level
08 AC ON	0-1	0	0	0	0	0	AC power feature
09 KEY DEFEAT	0-1	1	1	1	1	1	Disables control panel
10 STRT CH/VOL	0-255	255	255	255	255	255	Determines channel/volume at turn on
11 HOSPITAL MODE	0-2	0	0	0	2	0	Remote control frequency level
12 CHAN LOCK	0-1	0	0	0	0	0	Defeats tuning operation
13 GHOST CH	0-1	0	0	0	0	0	In On mode, channel # will stay on screen
14 SCAN MODE	0-3	0	0	0	1	0	Channel number On/Off
15 TEXT MODE	0-1	1	1	1	1	1	Turns Text mode on or off in user menu
16 SLEEP TIMER	0-1	1	1	1	1	1	Enables Sleep Timer feature
17 ALARM	0-1	1	1	1	0	1	Enables Alarm feature
18 CH. OVER RIDE	0-1	1	1	1	1	1	Channel scan advanced features
19 OLD OCV	0-1	0	0	0	0	0	Y/C comb filter On/Off
20 CAPTION LOCK	0-1	0	0	0	0	0	Affects captioning
21 FUNCTION PRE	0-1	0	0	0	0	0	Function Menu Channel preview
22 FEATURE LEVEL	0-1	1	1	1	1	1	Selects Zenith or private label
TECHNICAL SETTINGS (Black) Factory Mode 1							
23 TRAP 3.58	0-1	0	0	0	0	0	3.58 Mhz trap
24 RF BANDPASS	0-1	1	1	1	1	1	Brightness for therefore mode
25 RFBRT	0-63	30	30	30	30	30	Brightness for RF mode
26 AUXBRT	0-63	30	30	30	30	30	Brightness for AUX mode
27 MAX CONTRAST	0-63	63	63	63	63	63	Sets customer control for contrast
28 VSIZE	0-254	163	163	163	163	155	Vertical size
29 HSIZE	0-254	100	100	100	100	100	Horizontal size
30 VERT PHASE	0-7	2	2	2	2	2	Shifts picture vertically
31 HORZ PHASE	0-31	11	11	11	11	11	Shifts picture horizontally
32 AUDLVL	0-63	46	46	46	46	46	Audio level control
33 RF AGC	0-63	46	46	46	46	46	Weak channel adjustment
34 HOR AFC	0-1	1	1	1	1	1	Horizontal Automatic Frquency control
35 WHITE COMPRESS	0-1	0	0	0	0	0	White compression
36 60HZSW	0-2	2	2	2	2	2	60 Hertz Switched
37 PIFVCO	1-127	52	52	52	52	52	PIF Voltage Controlled Oscillator
38 RED CUT	0-255	0	0	0	0	0	B&W tracking adjustment
39 GREEN CUT	0-255	0	0	0	0	0	B&W tracking adjustment
40 BLUE CUT	0-255	1	1	1	1	1	B&W tracking adjustment
41 GREEN GAIN	0-254	80	80	80	80	80	B&W tracking adjustment
42 BLUE GAIN	0-254	90	90	90	90	90	B&W tracking adjustment
43 6 KEYS	0-6	0	0	0	0	0	Keyboard Type
44 A ATT	0-15	9	9	9	9	9	Low frequency separation
45 STEREO VCO	0-63	31	31	31	31	31	Stereo Voltage controlled Oscillator
46 A FILTER	0-63	31	31	31	31	31	2nd Audio voltage controlled Oscillator
47 A SPECTRL	0-63	31	31	31	31	31	Stereo low pass filter
48 WIDE BAND	0-63	31	31	31	31	31	2nd Audio program low pass filt
49 MAX BLK HRS	0-99	12	12	12	12	12	Max Blank Hours
50 STEREO	0-1	0	0	1	0	0	Enables Stereo
51 RADIO	0-1	0	0	1	1	0	Enables Radio
52 AUX	0-1	1	1	1	0	1	Enables auxiliary sources
53 V-CHIP	0-1	1	1	1	1	1	Enables parental control

FACTORY MENU SETTINGS FOR 221-1390 (continued)							
ITEM	RANGE	H2539Y	H2535DT	H2735DT	H3235DT	H3635DT	DESCRIPTION
00 FACT MENU	0-1	0	0	0	0	0	Factory mode - refer to page 2-1
01 PRESET PX	0-1	1	1	1	1	1	Used to store customer menu adjustments
02 POWER MANAGE	0-7	0	0	0	0	0	Hours TV will operate if not attended
03 VERT. POS	0-30	15	15	15	15	15	Moves On Screen display vertically
04 HORZ POS	0-45	9	9	9	9	9	Moves On Screen display horizontally
05 BAND/AFC	0-7	0	0	0	0	0	Broadcast Band adjustment
06 MIN VOLUME	0-63	0	0	0	0	0	Sets min. customer volume level
07 MAX VOLUME	0-63	63	63	63	63	63	Sets max. customer volume level
08 AC ON	0-1	0	0	0	0	0	AC power feature
09 KEY DEFEAT	0-1	1	1	1	1	1	Disables control panel
10 STRT CH/VOL	0-255	255	255	255	255	255	Determines channel/volume at turn on
11 HOSPITAL MODE	0-2	0	0	0	0	0	Remote control frequency level
12 CHAN LOCK	0-1	0	0	0	0	0	Defeats tuning operation
13 GHOST CH	0-1	0	0	0	0	0	In On mode, channel # will stay on screen
14 SCAN MODE	0-3	0	0	0	0	0	Channel number On/Off
15 TEXT MODE	0-1	1	1	1	1	1	Turns Text mode on or off in user menu
16 SLEEP TIMER	0-1	1	1	1	1	1	Enables Sleep Timer feature
17 ALARM	0-1	1	1	1	1	1	Enables Alarm feature
18 CH. OVER RIDE	0-1	1	1	1	1	1	Channel scan advanced features
19 OLD OCV	0-1	0	0	0	0	0	Y/C comb filter On/Off
20 CAPTION LOCK	0-1	0	0	0	0	0	Affects captioning
21 FUNCTION PRE	0-1	0	0	0	0	0	Function Menu Channel preview
22 FEATURE LEVEL	0-1	1	1	1	1	1	Selects Zenith or private label
TECHNICAL SETTINGS (Black) Factory Mode 1							
23 TRAP 3.58	0-1	0	0	0	1	1	3.58 Mhz trap
24 RF BANDPASS	0-1	1	1	1	1	1	Brightness for therefore mode
25 RFBRT	0-63	30	30	30	30	30	Brightness for RF mode
26 AUXBRT	0-63	30	30	30	30	30	Brightness for AUX mode
27 MAX CONTRAST	0-63	63	63	63	63	63	Sets customer control for contrast
28 VSIZE	0-254	155	155	145	106	139	Vertical size
29 HSIZE	0-254	100	100	213	124	146	Horizontal size
30 VERT PHASE	0-7	2	2	3	3	24	Shifts picture vertically
31 HORZ PHASE	0-31	11	11	13	12	10	Shifts picture horizontally
32 AUDLVL	0-63	46	46	46	46	46	Audio level control
33 RF AGC	0-63	46	46	46	46	46	Weak channel adjustment
34 HOR AFC	0-1	1	1	1	1	1	Horizontal Automatic Frquency control
35 WHITE COMPRESS	0-1	0	0	0	0	0	White compression
36 60HZSW	0-2	2	2	2	2	2	60 Hertz Switched
37 PIFVCO	1-127	52	52	52	52	52	PIF Voltage Controlled Oscillator
38 RED CUT	0-255	0	0	0	0	0	B&W tracking adjustment
39 GREEN CUT	0-255	0	0	0	0	0	B&W tracking adjustment
40 BLUE CUT	0-255	1	1	1	1	1	B&W tracking adjustment
41 GREEN GAIN	0-254	80	80	80	80	80	B&W tracking adjustment
42 BLUE GAIN	0-254	90	90	90	90	90	B&W tracking adjustment
43 6 KEYS	0-6	0	0	0	0	0	Keyboard Type
44 A ATT	0-15	9	9	9	9	9	Low frequency separation
45 STEREO VCO	0-63	31	31	31	31	31	Stereo Voltage controlled Oscillator
46 A FILTER	0-63	31	31	31	31	31	2nd Audio voltage controlled Oscillator
47 A SPECTRL	0-63	31	31	31	31	31	Stereo low pass filter
48 WIDE BAND	0-63	31	31	31	31	31	2nd Audio program low pass filt
49 MAX BLK HRS	0-99	12	12	12	12	12	Max Blank Hours
50 STEREO	0-1	0	1	1	1	1	Enables Stereo
51 RADIO	0-1	0	1	0	0	0	Enables Radio
52 AUX	0-1	1	1	1	1	1	Enables auxiliary sources
53 V-CHIP	0-1	1	1	1	1	1	Enables parental control

SERVICING

GENERAL INFORMATION

Servicing the CH 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 Service Menu. Bring up the Service 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 Service Menus 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.

SERVICING THE POWER SUPPLY

Check the standby voltages first:

VDC at CX3407 ((usually 169.7 VDC when 120 VCA)

B+ at CX3610

NOTE: B + 130 VDC for CH 32 and 36 inch

+ 15 VDC at CX3800

+14 VDC at C3803

5 VDC at C3802

Power On at IC6000 pin 32

Check the following:

Keyboard input at IC6000 pin 7 and 8

IR input at IC6000 pin 15

Power On output at IC6000 pin 32

Q3802 power supply "turn On" transistor.

Check the Switches voltages:

+ 15 volts DC at CX3804

+ 15 volts DC for the Audio Amp at LX3805.

+9 volts DC C3806

SWEEP DERIVE VOLTAGES

+ 25 VOLTS dc AT (+) CX2105

+ 35 volts DC at the junction of CX3253 and DX3252

+ 215 VOLTS DC at the junction of CX3208 and RX3208

+ 33 volts DC at the junction of RX3216 and ZD6001

CRT FILAMENT

Check at pin 1 and 2 of connector 2F5. This should read voltages between 6.1 to 6.3 volts AC on a true RMS meter.

VIDEO PROCESSOR ICX2200

Check the following key operating Signals and voltages:

Luminance in at ICX2200 pin 45

Chroma in at ICX2200 pin 45

Horizontal drive at pin 32

Vertical drive pin 24

R Out 19

G Out 20

B Out 21

Serial Data, Serial Clock pins 27 and 28

VCC 9 volts pins 9,46,8,48

R in form micro (IC6000) at pin 15

G in from micro (IC6000) at pin 16

B in from micro (IC6000) at pin 17

MICROPROCESSOR

Check the following:

IR in on pin 15.

+ 5 volts on pin 27 and 18.

Serial Data, Serial Clock on pins 36 and 38

Reset pin 30.

Horiz. Flyback pin 1, Vertical puce on pin 2

R Out 52, G Out 51, B Out 50.

VERTICAL CIRCUIT ICX2100

Check the following:

Vertical drive ramp pin 3

Vertical out pin 1

+ 25 VDC at pin 10

HORIZONTAL CIRCUIT

Check the following:

Horizontal drive to base of Q3201 predriver.

Driver transformer output at base of QX3203.

Shutdown voltage at RX3010M.

Scan derived voltages + 25V,+ 35V, + 215V +33V.

HIGH VOLTAGE AND X RADIATION PROTECTION

A potential source of x-rays is the picture tube, if the high voltage (HV) is out of specification. When the HV is operating properly, there is no x-radiation. For the CH chassis family, the HV has no adjustments. A HV shutdown circuit is used to prevent excessive HV and x-ray emissions.

THEORY OF OPERATION (SHUTDOWN CIRCUIT)

This circuit basically monitors the sweep pulse voltage derived from the sweep transformer TX3204 pins 5 & 6.

This voltage is rectified, and applied to a 12V zener diode ZDX3004. When the HV reaches its maximum allowed, value (see drawing) the zener diode conducts, the voltage on pin 29 of the video processor (ICX2200) increases until it reaches the threshold voltage of 3.5 VDC, and shuts down the TV

If the shutdown circuit has operated, the microcontroller will prevent the TV from being turned on again, without first having to unplug the AC cord to reset the microcontroller.

Apply signal through the video generator or tune the TV color receiver to crosshatch pattern. Connect an accurate HV meter between the picture tube anode and chassis ground. Access Video Menu and adjust Brightness and Contrast controls for minimum screen luminance. Wait until, the Video Menu or display disappear. Read HV meter.

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 have been replaced, set Service Menu items 41G Gain and 42 B Gain to default settings for the receiver's screen size.
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 Service Menu cutoff adjustments. (Factory mode item 00 must be set to 1 to gain access to adjustments).
5. Set menu items 38 R Cut, 39 G Cut, and 40 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 Service Menu and check default settings for the following items:

#33 RF AGC should be at least 40.

#37 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 PIF VCO (#37) to 2.5 volts DC.

AGC DELAY

With a strong noise-free antenna signal, adjust RF AGC (#33) 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 Service Menu and check the default setting for the following items:

#32 AUDIO LEVEL set to 46.

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 #32 AUDIO LEVEL on the Installer's Menu.
3. Place a high impedance meter on pin 19 of IC1400 or the positive side of capacitor C1427. Adjust item AUDIO LEVEL (#32) to 490 to 500mV AC.
4. Access item #44 A ATT on the Service Menu. Place a high impedance meter on pin 44 of IC1400. Adjust item A ATT (#44) to 490 to 500mV AC.

MTS MODELS: Enter settings in their appropriate locations in the Service Menu, items 44-48, (starting with the left most two digits for item 44).

Note: Items 44-48 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.

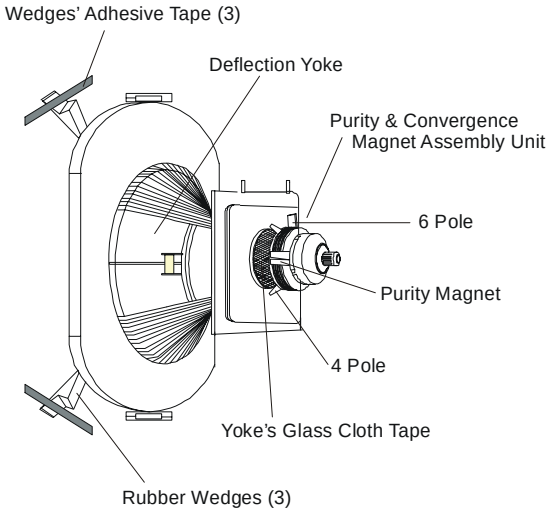
CONVERGENCE ADJUSTMENT

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.

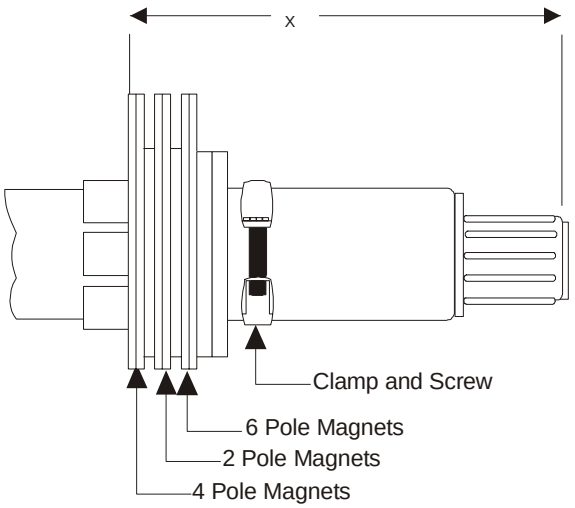
IMPROVING CRT CORNER PURITY

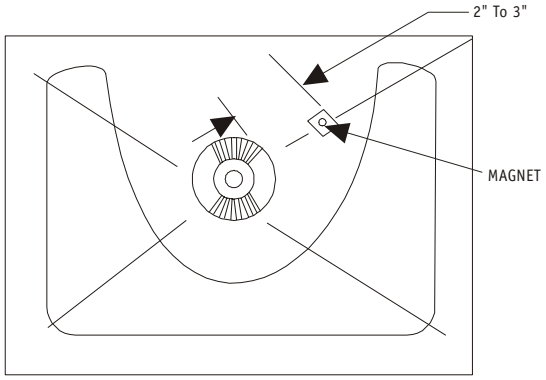
CRTs that display corner purity problems even after following the service procedures can be modified with a picture correction kit (P/N 949-50). The purity can be improved by placing a picture-correction magnet (included in the kit) on the CRT funnel. Refer to the following modification steps and illustration to place the magnet properly. Fully degauss the CRT before installing correction magnets.

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.***





H1934Y, H1934Y3, H1934Y33, H1934Y4, H1934Y6

012-10896-01	MOLDED PLASTIC BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC BRACKET, JACKPACK
012-10899	MOLDED PLASTIC BRACKET
014-12049-01	CABINET TRAY, TV, MOLDED PLASTIC
014-12050-29	CABINET FRONT, TV, MOLDED PLASTIC
014-12051-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-32	COIL, DEGAUSSER
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-01699-08	CONNECTOR & CBL, ASSY, 2.5MM, 5 CONTACT, 2 UP
050-01989-01	CONNECTOR & CBL, ASSY, 2.5MM, 2 CONTACT, 1 UP
058-00258-02	PLUG, SINGLE PRONG
124-00213-02	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00844-04	CRYSTAL WINDOW
206-03490	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18505-01	DETECTOR/AMP ASSEMBLY
A-18671-03	CRT AND YOKE ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-11	GND STRAP ASSY , CRT
A-19082-02	JACK ASSY, 3 PHONE, AUDIO/VIDEO
F-53387	KEYBOARD ASSY, 6 KEY

H2034Y, H2034Y3, H2034Y33, H2034Y4, H2034Y6

012-10896-01	MOLDED PLASTIC BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC BRACKET, JACKPACK
012-10899	MOLDED PLASTIC BRACKET
014-11976-02	CABINET TRAY, TV, MOLDED PLASTIC
014-12048-07	CABINET REAR, TV, MOLDED PLASTIC
014-12056-56	CABINET FRONT, TV, MOLDED PLASTIC
020-04330-31	COIL, DEGAUSSER
024-03346	COVER, UNUSED SPEAKER OPENINGS
049-01369-02	SPEAKER, OVAL, 6 X 9 CM
050-01989-01	CONNECTOR & CBL ASSY, 2.5MM, 2 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
058-00258-02	PLUG, SINGLE PRONG
124-00213-02	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW, IR
206-03490	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18693-03	CRT ASSEMBLY WITH DEFLECTION YOKE
A-18695-20	GND STRAP ASSY, CRT
A-19082-02	JACK ASSY, 3 PHONE, AUDIO/VIDEO
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR

H2035DT, H2035DT3, H2035DT33, H2035DT4, H2035DT6

012-10896-01	MOLDED PLASTIC BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC BRACKET, JACKPACK
012-10899	MOLDED PLASTIC BRACKET
014-11976-02	CABINET TRAY, TV, MOLDED PLASTIC
014-12048-07	CABINET REAR, TV, MOLDED PLASTIC
014-12056-55	CABINET FRONT, TV, MOLDED PLASTIC
020-04330-31	COIL, DEGAUSSER
049-01369-02	SPEAKER, OVAL, 6 X 9 CM
050-02576	CONNECTOR ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
058-00258-02	PLUG, SINGLE PRONG
124-00213-03	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW, IR
206-03488	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18693-03	CRT ASSEMBLY WITH DEFLECTION YOKE
A-18695-20	GND STRAP ASSY, CRT
A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
A-19097	PC BOARD ASSY, JACKPACK, CAMPORT FRONT AV IN
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR

H2050DT, H2050DT3, H2050DT33, H2050DT4, H2050DT6

012-10896-01	MOLDED PLASTIC BRACKET, SUPERPORT
012-10897-02	MOLDED PLASTIC BRACKET, JACKPACK
012-10899	MOLDED PLASTIC BRACKET
014-12049-01	CABINET TRAY, TV, MOLDED PLASTIC
014-12050-28	CABINET FRONT, TV, MOLDED PLASTIC
014-12051-05	CABINET REAR, TV, MOLDED PLASTIC
014-12051-08	CABINET REAR, TV, MOLDED PLASTIC
020-04330-44	COIL, DEGAUSSER
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-01699-08	CONNECTOR & CBL ASSY, 2.5MM, 5 CONTACT, 2 UP
050-01989-01	CONNECTOR & CBL ASSY, 2.5MM, 2 CONTACT, 1 UP
058-00390	PLUG, MULTI-PRONG, 6 CONTACT MINIATURE
124-00213-05	SPACE COMMAND TRANSMITTER (TV ONLY)
124-00213-06	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00844-04	CRYSTAL WINDOW
206-03491	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18167	PILLOW SPEAKER , AND REMOTE CONTROL, IR ENVELOPE ENCODED
A-18299-03	LINE CORD AND TERMINALS ASSEMBLY
A-18505-01	DETECTOR/AMP ASSEMBLY, INFRARED SPACE COMMAND
A-18693-03	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18695-20	GND STRAP ASSY, CRT
A-19082-01	JACK ASSEMBLY, PILLOW SPEAKER CONNECTION
F-53387	KEYBOARD ASSY, 6 KEY

H2534Y, H2534Y3, H2534Y33, H2534Y4, H2534Y6

012-10713	METAL STAMPING, BRACKET, PC BRD RETAINER
012-10896-01	MOLDED PLASTIC, BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC, PANEL, JACKPACK
012-10899	MOLDED PLASTIC, BRACKET
012-10901	MOLDED PLASTIC, GUIIDE RAIL
014-12142-69	CABINET FRONT, TV, MOLDED PLASTIC
014-12143	CABINET TRAY, MOLDED PLASTIC
014-12181-08	CABINET REAR, TV, MOLDED PLASTIC
020-04330-42	COIL, DEGAUSSER
024-03372	COVER, BLANK, 2 X 5 SPEAKER OPENING
024-03470-01	COVER, OUTER, LEFT, TOP
024-03470-02	COVER, OUTER, LEFT, TOP

049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-01989-01	CONNECTOR & CBL, ASSY, 2.5MM, 2 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
095-04456-06	TRANSFORMER, DEFLECTION YOKE
A63AFW38X	VACUUM TUBE, CRT, COLOR, 25 INCH DIAGONAL
124-00213-02	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW , IR
206-03490	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-02	GND STRAP ASSY, CRT
A-19082-02	JACK ASSEMBLY, 3 PHONO, AUDIO/VIDEO
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR

H2535DT, H2535DT3, H2535DT33, H2535DT4, H2535DT6

012-10713	METAL STAMPING , BRACKET, PC BRD RETAINER
012-10896-01	MOLDED PLASTIC , BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC , PANEL, JACKPACK
012-10899	MOLDED PLASTIC, BRACKET
012-10901	MOLDED PLASTIC, GUIDE RAIL
014-12142-70	CABINET FRONT, TV, MOLDED PLASTIC
014-12143	CABINET TRAY, MOLDED PLASTIC
014-12181-08	CABINET REAR, TV, MOLDED PLASTIC
020-04330-42	COIL, DEGAUSSER
024-03470-01	COVER, OUTER, LEFT, TOP
024-03470-02	COVER, OUTER, LEFT, TOP
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
095-04456-06	TRANSFORMER, DEFLECTION YOKE, 25V HIBI COMERCIAL
A63AFW38X	VACUUM TUBE, CRT, COLOR, 25 INCH DIAGONAL
124-00213-03	SPACE COMMAND TRANSMITTER (TV ONLY)
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW, IR
194-02548	SPACER, MOLDED PLASTIC, STANDOFF
206-03488	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-02	GND STRAP ASSY, CRT
A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
A-19097	PC BOARD ASSY, JACKPACK, CAMPORT FRONT AV IN
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR

H2539Y, H2539Y3, H2539Y33, H2539Y4, H2539Y6

014-12142-69	CABINET FRONT, TV, MOLDED PLASTIC
014-12143	CABINET TRAY, MOLDED PLASTIC
014-12181-08	CABINET REAR, TV, MOLDED PLASTIC
020-04330-42	COIL, DEGAUSSER
024-03372	COVER, BLANK, 2 X 5 SPEAKER OPENING
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-01989-01	CONNECTOR&CBL, ASSY, 2.5MM, 2 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
095-04456-06	TRANSFORMER, DEFLECTION YOKE, 25V HIBI COMERCIAL
A63AFW38X	VACUUM TUBE, CRT, COLOR, 25 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW , IR
205-00241-66	SOLDER BULK, WIRE, 63/37 0.031 DIAMETER
206-03490	INSTR BOOK, OPERATION GUIDE
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-02	GND STRAP ASSY , CRT
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR, COMMERCIAL AGUA CHAS

H25W35DT

012-10713	METAL STAMPING, BRACKET, PC BRD RETAINER
012-10896-01	MOLDED PLASTIC, BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC, PANEL, JACKPACK
012-10899	MOLDED PLASTIC, BRACKET
012-10901	MOLDED PLASTIC, GUIDE RAIL
014-12142-70	CABINET FRONT, TV, MOLDED PLASTIC
014-12143	CABINET TRAY, MOLDED PLASTIC
014-12181-08	CABINET REAR, TV, MOLDED PLASTIC
020-04330-42	COIL, DEGAUSSER
024-03470-01	COVER, OUTER, LEFT, TOP
024-03470-02	COVER, OUTER, LEFT, TOP
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04456-06	TRANSFORMER, DEFLECTION YOKE, 25V HIBI COMERCIAL
A63AFW38X	VACUUM TUBE, CRT, COLOR, 25 INCH DIAGONAL
152-00335	WEDGE, YOKE SPACER/POSITIONER
192-00889	CRYSTAL WINDOW, IR
206-03356	INSTR SHEET, SAFETY TIPS
A-07690-06	CONVERGENCE / PURITY RING
A-14323	BALUN ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-02	GND STRAP ASSY, CRT
A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
A-19097	PC BOARD ASSY, JACKPACK, CAMPORT FRONT A/V IN
F-53386	KEYBOARD ASSY, 10 KEY, WITH LED AND IR

H2735DT, H2735DT3, H2735DT33, H2735ST4, H2735DT6

012-10713	METAL STAMPING, BRACKET, PC BRD RETAINER
012-10896-01	MOLDED PLASTIC, BRACKET, SUPERPORT
012-10897-01	MOLDED PLASTIC, PANEL, JACKPACK
012-10899	MOLDED PLASTIC, BRACKET
012-10901	MOLDED PLASTIC, GUIDE RAIL
014-12254-02	CABINET REAR, TV, MOLDED PLASTIC
014-12336	CABINET FRONT, TV, MOLDED PLASTIC
020-04330-09	COIL, DEGAUSSER
024-03470-01	COVER, OUTER, LEFT, TOP
024-03470-02	COVER, OUTER, LEFT, TOP
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02361-02	CONNECTOR AND, CBL ASSEMBLY, CTV YOKE
050-02576	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY

192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18378	CRT ASSEMBLY, W/DEFLECTION YOKE AND BEAM BENDER
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-06	GND STRAP ASSY, CRT
A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53646	KEYBOARD ASSY, 10 KEY, WITH TALL IR

H3235DT

009-02087	MODULE, MAIN, 32V COMMERCIAL, WITH MTS, 4 JACK
014-12284-22	CABINET FRONT, TV, MOLDED PLASTIC
014-12285-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-33	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04517-01	DEFLECTION YOKE, FINAL, COLOR TV, 32V
A-81AGZ50X	VACUUM TUBE, CRT, COLOR, 32 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
152-00335-01	WEDGE, CRT SPACER
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-15947-01	BEAM BENDER ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-03	GND STRAP ASSY, CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR

H3235DT3

009-02087-02	MODULE, MAIN, 32V COMMERCIAL, WITH MTS, 4 JACK
014-12284-22	CABINET FRONT, TV, MOLDED PLASTIC
014-12285-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-33	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04517-01	DEFLECTION YOKE, FINAL, COLOR TV, 32V
A-81AGZ50X	VACUUM TUBE, CRT, COLOR, 32 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
152-00335-01	WEDGE, CRT SPACER
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-15947-01	BEAM BENDER ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-03	GND STRAP ASSY, CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR

H3235DT33

009-02087-03	MODULE, MAIN, 32V COMMERCIAL, WITH MTS, 4 JACK
014-12284-22	CABINET FRONT, TV, MOLDED PLASTIC
014-12285-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-33	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04517-01	DEFLECTION YOKE, FINAL, COLOR TV, 32V
A-81AGZ50X	VACUUM TUBE, CRT, COLOR, 32 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
152-00335-01	WEDGE, CRT SPACER
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-15947-01	BEAM BENDER ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-03	GND STRAP ASSY, CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR

H3235DT4

009-02163	MODULE, MAIN, 32V COMMERCIAL, WITH MTS, 4 JACK
014-12284-22	CABINET FRONT, TV, MOLDED PLASTIC
014-12285-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-33	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04517-01	DEFLECTION YOKE, FINAL, COLOR TV, 32V
A-81AGZ50X	VACUUM TUBE, CRT, COLOR, 32 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
152-00335-01	WEDGE, CRT SPACER
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-15947-01	BEAM BENDER ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-03	GND STRAP ASSY, CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR

H3235DT6

009-02087-01	MODULE, MAIN, 32V COMMERCIAL, WITH MTS, 4 JACK
014-12284-22	CABINET FRONT, TV, MOLDED PLASTIC
014-12285-07	CABINET REAR, TV, MOLDED PLASTIC
020-04330-33	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH

049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576	CONNECTOR & CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND CBL ASSEMBLY, TWISTED
095-04517-01	DEFLECTION YOKE, FINAL, COLOR TV, 32V
A-81AGZ50X	VACUUM TUBE, CRT, COLOR, 32 INCH DIAGONAL
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
152-00335	WEDGE, YOKE SPACER/POSITIONER
152-00335-01	WEDGE, CRT SPACER
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-15947-01	BEAM BENDER ASSEMBLY
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-03	GND STRAP ASSY, CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR

H3635DT

009-02088	MODULE, MAIN, 36V COMMERCIAL, WITH MTS/4 JACK
014-12269-10	CABINET FRONT, TV, MOLDED PLASTIC, 35V-1R
014-12270-14	CABINET REAR, TV, MOLDED PLASTIC, 35/36V
020-04330-34	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576-05	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18483	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-04	GND STRAP ASSY , CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR, COMMERCIAL AGUA CHAS

H3635DT3

009-02088-02	MODULE, MAIN, 36V COMMERCIAL, WITH MTS/4 JACK
014-12269-10	CABINET FRONT, TV, MOLDED PLASTIC, 35V-1R
014-12270-14	CABINET REAR, TV, MOLDED PLASTIC, 35/36V
020-04330-34	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576-05	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18483	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-04	GND STRAP ASSY , CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR, COMMERCIAL AGUA CHAS

H3635DT33

009-02088-03	MODULE, MAIN, 36V COMMERCIAL, WITH MTS/4 JACK
014-12269-10	CABINET FRONT, TV, MOLDED PLASTIC, 35V-1R
014-12270-14	CABINET REAR, TV, MOLDED PLASTIC, 35/36V
020-04330-34	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576-05	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18483	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-04	GND STRAP ASSY , CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR, COMMERCIAL AGUA CHAS

H3635DT4

009-02164	MODULE, MAIN, 36V COMMERCIAL, WITH MTS/4 JACK
014-12269-10	CABINET FRONT, TV, MOLDED PLASTIC, 35V-1R
014-12270-14	CABINET REAR, TV, MOLDED PLASTIC, 35/36V
020-04330-34	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576-05	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18483	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-04	GND STRAP ASSY , CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR, COMMERCIAL AGUA CHAS

H3635DT6

009-02088-01	MODULE, MAIN, 36V COMMERCIAL, WITH MTS/4 JACK
014-12269-10	CABINET FRONT, TV, MOLDED PLASTIC, 35V-1R
014-12270-14	CABINET REAR, TV, MOLDED PLASTIC, 35/36V
020-04330-34	COIL, DEGAUSSER
030-01532-01	DECORATIVE ITEM, LOGO, ZENITH
049-01368-03	SPEAKER, OVAL, 6 X 13 CM
050-02576-05	CONNECTOR&CBL, ASSY, 2.5MM, 4 CONTACT, 1 UP
050-02791	CONNECTOR AND, CBL ASSEMBLY, TWISTED
124-00213-02	SPACE COMMAND, TRANSMITTER, TV ONLY
192-00916	LENS, IR
206-03489	INSTR BOOK, OPERATION GUIDE
A-18483	CRT ASSEMBLY, WITH DEFLECTION YOKE
A-18682-01	POWER CORD ASSY, 2 CONDUCTOR
A-18695-04	GND STRAP ASSY , CRT
A-19092	JACK ASSEMBLY, 3 PHONO, FRONT PANEL
F-53707	KEYBOARD ASSY, 10 KEY, WITH SHORT IR, COMMERCIAL AGUA CHAS

The following information is for models in and out of warranty. For any models not listed, refer to the H1 Component Parts List starting on page 4-17.

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

fax 1-888-6-ZENITH

By Mail: ZENITH NATIONAL PARTS

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Huntsville, AL 35824-6407

H1 KEY	
MODEL	IDENTIFIER
H1934Y	A
H2034Y	A
H1934Y3	B
H2034Y3	B
H1934Y33	C
H2034Y33	C
H1934Y6	D
H2034Y6	D
H2035DT	E
H2035DT3	F
H2035DT33	G
H2035DT6	H
H2050DT	I
H2050DT3	J
H2050DT33	K
H2050DT6	L
H2534Y	M
H2534Y3	N
H2534Y33	O
H2534Y6	P
H2535DT	Q
H2535DT3	R
H2535DT33	S
H2535DT6	T
H25W35DT	U
H2539Y	V
H2539Y3	W
H2539Y33	X
H2539Y6	Y
H2735DT	Z
H2735DT3	a
H2735DT33	b
H2735DT6	c

SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	10VGA1	050-02520-13	CONNECTOR AND, CABLE ASSEMBLY, TWISTED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	1E11	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	1VGA10	058-00542-10	PLUG, 2.5 MM, 10 POSITION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	2E6	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	2H4	058-00586-02	PLUG, MULTIPRONG, NATURAL COLOR, 2 POSITION
ABCDEFGHMNOPQRSTUVWXYZabc	2P6	058-00526-02	PLUG, 0.098P 2 CONTACT
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	3R8	058-00570-02	PLUG, MULTIPRONG, 2 POSITION
EFGHQSTUZabc	4E9	058-00586-06	PLUG, MULTIPRONG, NATURAL COLOR, 6 POSITION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	4G9	058-00542-05	PLUG, 2.5 MM, 5 POSITION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	4H2	058-00586-02	PLUG, MULTIPRONG, NATURAL COLOR, 2 POSITION
ABCDMNOPRVWXY	9M4	058-00526-02	PLUG, 0.098P 2 CONTACT
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C0800	022-08310-12A	CAP, 100 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C0801	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C0802	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
EFGHQRSTUZabc	C0811	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C0812M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
EFGHQRSTUZabc	C0813	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
EFGHQRSTUZabc	C0814	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
EFGHQSTUZabc	C0815	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDIJKLMNOPVWXY	C0816	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
EFGHQRSTUZabc	C0821	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDIJKLMNOPVWXY	C0822M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
EFGHQRSTUZabc	C0822M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
EFGHQRSTUZabc	C0823	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C0824	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C0825	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
IJKL	C0900	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
IJKL	C0901	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
IJKL	C0902	022-08310-12A	CAP, 100 MFD 20% 25V, ELECTRO
IJKL	C0903	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
IJKL	C0904	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
IJKL	C0905	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
IJKL	C0906	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
IJKL	C0909	022-08310-13A	CAP, 220 MFD 20% 25V, ELECTRO
IJKL	C0910M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
IJKL	C0911	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
IJKL	C0915	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1200M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1201M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1202M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1203M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1204M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1205M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1206	022-08312-03A	CAP, 0.47 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1207	022-08312-03A	CAP, 0.47 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1208M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1209M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1210	022-08309-15A	CAP, 470 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1211M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1212	022-08312-03A	CAP, 0.47 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1213M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDIJKLMNOPVWXY	C1213M	022-08366-16A	CAP, 4,700 PFD 10% 50V, CERAMIC CHIP

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1214	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1215M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1216	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1217M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1218M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1219M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1220M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1221M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1222	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1223M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1224M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C1402	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1403	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1411M	022-08370-22A	CAP, 15,000 PFD 10% 16V, CERAMIC CHIP
EFGHQRSTUZabc	C1412M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
EFGHQRSTUZabc	C1413	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1414	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1415	022-07669-15A	CAP, 10 MFD 10% 50V, ELECTRO
EFGHQRSTUZabc	C1416	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
EFGHQRSTUZabc	C1417	022-07669-14A	CAP, 3.3 MFD 10% 50V, ELECTRO
EFGHQRSTUZabc	C1418	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
EFGHQRSTUZabc	C1419	022-08257-17A	CAP, 2700 PFD 10% 50V, CERAMIC DISC
EFGHQRSTUZabc	C1420	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
EFGHQRSTUZabc	C1421	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1422	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
EFGHQRSTUZabc	C1423	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
EFGHQRSTUZabc	C1424M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
EFGHQRSTUZabc	C1425	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1426	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1427	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1428	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHQRSTUZabc	C1429	022-08049-13A	CAP, 0.012 MFD 10% 50V, POLY
EFGHQRSTUZabc	C1430	022-08257-21A	CAP, 5600 PFD 10% 50V, CERAMIC DISC
EFGHQRSTUZabc	C1431	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
EFGHQRSTUZabc	C1432M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
EFGHQRSTUZabc	C1433M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
EFGHQRSTUZabc	C1434M	022-08370-22A	CAP, 15,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2101	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO

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

SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2102	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2103	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2104	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2106	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2108	022-08310-11A	CAP, 47 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2109	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2111	022-07786C	CAP, 1000 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2112	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2200M	022-08352-14A	CAP, 12 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2201	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2202	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2203	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2204M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2205M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2206	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2208	022-08312-05A	CAP, 2.2 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2209	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2210M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2213M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2214M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2215M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2216	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2217M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2218	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2219	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2220	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2221	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2222	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2223	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2224	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2225	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2226	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2227	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2228M	022-08354-41A	CAP, 160 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2234M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2235M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2236M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2237M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2290	022-08310-10A	CAP, 33 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C2290M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3201M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3202	022-08257-08A	CAP, 470 PFD 10% 50V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3203	022-08049-16A	CAP, 0.022 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3204	022-07786-17C	CAP, 2200 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3206	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3209	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
Zabc	C3250	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
Zabc	C3255	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3419	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3421	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3422	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3425	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3426	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C3429	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
EFGHIJKLQRSTU	C4202M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4203M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4205M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4207	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
EFGHIJKLQRSTU	C4208M	022-08352-17A	CAP, 16 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4209M	022-08352-48A	CAP, 330 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4210	022-08312-05A	CAP, 2.2 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C4211	022-08227-09A	CAP, 0.068 MFD 5% 50V, POLY
EFGHIJKLQRSTU	C4212	022-07773-23A	CAP, 0.082 MFD 5% 100V, POLY
EFGHIJKLQRSTU	C4213M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
EFGHIJKLQRSTU	C4214M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
EFGHIJKLQRSTU	C4215M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4216M	022-08352-24A	CAP, 33 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4217M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4218	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
EFGHIJKLQRSTU	C4219	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C4220	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C4221	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C4222	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C4223M	022-08352-17A	CAP, 16 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4230M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4231M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
EFGHIJKLQRSTU	C4232	022-07773-23A	CAP, 0.082 MFD 5% 100V, POLY
EFGHIJKLQRSTU	C4233M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4234	022-08310-11A	CAP, 47 MFD 20% 25V, ELECTRO
EFGHIJKLQRSTU	C4250	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
EFGHIJKLQRSTU	C4250M	022-08352-40A	CAP, 150 PFD 5% 50V, CERAMIC CHIP
EFGHIJKLQRSTU	C4252M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUZabc	C4946	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUZabc	C4965	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUZabc	C4966	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUZabc	C4967	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5101	022-08318-04A	CAP, 1 MFD 20% 350V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5102M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5103M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5104	022-07523-01B	CAP, 0.01 MFD +80 % & -2, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5105M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5106M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5107	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5109M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5110	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5111	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C5118M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP

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RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6001M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6003M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6005M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6006	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6007M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6009M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6010M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6011M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6012M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6013	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6014M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6015M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6016	022-08312-05A	CAP, 2.2 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6017M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6018M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6019M	022-08352-42A	CAP, 180 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6020	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6021M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6023M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6024M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6025M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
BDFHJLNPRTWYac	C6026M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6028	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6029M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
BDFHJLNPRTWYac	C6030	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ACEGIKMOQSUVXZb	C6030	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6031M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6032	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6033M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6036M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6037M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6038M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6040M	022-08352-42A	CAP, 180 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6041M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6042M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6043M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6045M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6046M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6047M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6048M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6049M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6050M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6051M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6052M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6053M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6054M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6055M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6056M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6058M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6059M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6060M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6061M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6079M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6090M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6091M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6092M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6093M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6094M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6095M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6097M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	C6098	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
EFGHIJKLQRSTU	C6099M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CON0001	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CON0002	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CR2200	224-00027A	CRYSTAL, QUARTZ, 3.579 MHZ
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CR2201	224-00178	RESONATOR, CERAMIC, 503 KHZ
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CRT0001	078-03394-09	SOCKET, CRT
EFGHIJKLQSTU	CRY4200	224-00194	CRYSTAL, QUARTZ, 54 MHZ
EFGHIJKLQSTU	CRY4202	224-00195	RESONATOR, CERAMIC, 456 KHZ
EFGHIJKLQSTU	CRY4203	224-00196	RESONATOR, CERAMIC DISCRIMINATOR, 10.7 MHZ
EFGHIJKLQSTU	CRY4204	224-00153	FILTER, CERAMIC, 10.7 MHZ
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CRY6001	224-00074-02A	CRYSTAL, QUARTZ, 8 MHZ
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX2105	022-08311-13	CAP, 220 MFD 20% 35V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX2107	022-08310-17	CAP, 2200 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX2110	022-08311-12A	CAP, 100 MFD 20% 35V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3003	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3004	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3007	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3205	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3207A	022-08159	CAP, 0.68 MFD 10% 200V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3208	022-08317-08	CAP, 10 MFD 20% 250V, ELECTRO
Zabc	CX3210	022-08386-05	CAP, 560 PFD 10% 2000V, CERAMIC DISC

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

SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
MNOPQRSTUVWXY	CX3212	022-08386-01	CAP, 270 PFD 10% 2000V, CERAMIC DISC
Zabc	CX3212	022-08386-05	CAP, 560 PFD 10% 2000V, CERAMIC DISC
ABCDEFGHIJKL	CX3212	022-08386-12	CAP, 2200 PFD 10% 2000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3215	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFGHIJKL	CX3216	022-08229-22	CAP, 0.0082 MFD 3% 1600VDC, POLYPROP
MNOPQRSTUVWXY	CX3216	022-08229-26	CAP, 0.012 MFD 3% 1600VDC, POLYPROP
Zabc	CX3216	022-08229-29	CAP, 0.016 MFD 3% 1600VDC, POLYPROP
A	CX3217	022-08231-11	CAP, 0.39 MFD 5% 200V, POLYPROP
BCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3217	022-08231-12	CAP, 0.47 MFD 5% 200V, POLYPROP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3218	022-08315-05A	CAP, 2.2 MFD 20% 160V, ELECTRO
Zabc	CX3251	022-08057-01	CAP, 4.7 MFD 20% 50V, NONPLZD ELECTRO
Zabc	CX3252	022-08116-05	CAP, .027 MFD 5% 630V, POLYPROP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3253	022-08312-11A	CAP, 47 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3254	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
Zabc	CX3256	022-08116-01	CAP, 0.012 MFD 5% 630V, POLYPROP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3400	022-07431-06B	CAP, 0.0047 MFD 20%, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3401	022-07867-10	CAP, 0.1 MFD 20% 250VAC, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3402	022-07431-06B	CAP, 0.0047 MFD 20%, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3403	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3404	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3405	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3406	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3407	022-08444-09	CAP, 330 MFD 20% 200V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3408	022-08227-09A	CAP, 0.068 MFD 5% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3409	022-08386-12	CAP, 2200 PFD 10% 2000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3411	022-08312-12A	CAP, 100 MFD 20% 50V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3412	022-08049-16A	CAP, 0.022 MFD 10% 50V, POLY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3414	022-08242-34A	CAP, 100 PFD 10% 50V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3415	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3417	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3420	022-08444-07	CAP, 220 MFD 20% 200V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3424	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	CX3430	022-08310-15	CAP, 470 MFD 20% 25V, ELECTRO
IJKL	CX3450	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
IJKL	CX3451	022-07431-04	CAP, 0.001 MFD +20 % -20 %, CERAMIC DISC
BDFHJLNPRTWYac	CX6027	022-08309-15A	CAP, 470 MFD 20% 16V, ELECTRO
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D2200	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D2201	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D2202	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D2203	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D2204	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D3410	103-00560-07	DIODE, FAST RECOVERY RECTIFIER, 600 PIV
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D3411	103-00589	DIODE, FAST RECOVERY RECTIFIER, 400 PIV
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D3412	103-00417-01A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D3420	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
IJKL	D3450	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D5102	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D5105	103-00279-04A	DIODE, ZENER, 3V 0.5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D6001	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	D6002	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
AU	DAG0000	A-19197	GROUNDING ASSY, WIRE AND TERMINAL, WHITE, DAG
BCDEFGHIJKLMNOPQRSTVWXYZabc	DAG0000	F-52809	WIRE&TERM ASSY, SINGLE CONDUCTOR, SIMPLE, WHITE
AU	DAG0001	A-19197	GROUNDING ASSY, WIRE AND TERMINAL, WHITE, DAG
BCDEFGHIJKLMNOPQRSTVWXYZabc	DAG0001	F-52809	WIRE&TERM ASSY, SINGLE CONDUCTOR, SIMPLE, WHITE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX2101	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX2102	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX2103	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX2104	103-00339-04A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3005	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3006	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3201	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3203	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3204	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
Zabc	DX3250	103-00305-01A	DIODE, HIGH VOLTAGE GENERAL, SILICON
Zabc	DX3251	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3252	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3401	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3402	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3403	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3404	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3405	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3406	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3407	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3408	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	DX3409	103-00467A	DIODE, LOW VOLTAGE GENERAL, SILICON
BCDEFGHIJKLMNOPQRSTUVWXYZabc	EX3401	038-00102	SPARK GAP, HIGH VOLTAGE, 4KV DC
AU	EX3401	A-19238-01	SPARK GAP ASSY
BFJNRWa	FX3401	136-00114-23A	FUSE, NORMAL LAG, 4 AMP 250V
ADEHILMPQTVYZc	FX3401	136-00114-23C	FUSE, NORMAL LAG, 4 AMP 250V
BFJNRWa	FX3403	136-00148-23	FUSE, NORMAL LAG, 3 AMP 250V
ADEHILMPQTVYZc	FX3403	136-00148-23C	FUSE, NORMAL LAG, 3 AMP 250V

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SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
EFGHQSTUZabc	IC0800	221-00598-01	I/C AND HEATSINK, ASSEMBLY
ABCDIJKLMNOPRVWXY	IC0801	221-01381	I/C, AUDIO AMPLIFIER, 2 WATT, MONAURAL
IJKL	IC0900	162-00051	PHOTO-OPTIC, COUPLER, 1 CHANNEL
IJKL	IC0901	221-01381	I/C, AUDIO AMPLIFIER, 2 WATT, MONAURAL
IJKL	IC0902	162-00051	PHOTO-OPTIC, COUPLER, 1 CHANNEL
IJKL	IC0903	162-00052	PHOTO-OPTIC, COUPLER, 2 CHANNEL
EFGHQSTUZabc	IC1400	221-01127	I/C, MTS STEREO DECODER/ VOL.LIMITER AND
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	IC2100	221-00992-01	I/C, VERTICAL DEFLECTION
EFGHIJKLQSTU	IC4201	221-01020	I/C, AM/FM RADIO RECEIVER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	IC6000	078-03443	CONNECTOR, 52 POSITION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	IC6000	126-03446-03	SHIELD, EMI, MICROPROCESSOR
ADEHILMPQTVYZc	IC6000	221-01390	I/C, 8-BIT MICROCOMPUTER
BCFGJKNORSWXab	IC6000	221-01390-01	I/C, 8-BIT MICROCOMPUTER
U	IC6000	221-01390-02	I/C, 8-BIT MICROCOMPUTER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	IC6001	221-00745-05	I/C, 8K BIT SERIAL EEPROM
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	IC6002	221-01177A	I/C, SYSTEM RESET
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX2200	221-01165	I/C, I2C BUS CONTROL NTSC
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX3401	221-00213-09	I/C, 9 VOLT, 1 AMP, LINEAR, REGULATOR
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX3402	221-00213	I/C, 5 VOLT, 1 AMP, LINEAR, REGULATOR
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX3403	162-00028-01	OPTO-COUPLER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX3405	221-00265-03A	I/C, ADJUSTABLE SHUNT REGULATOR
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ICX3412	223-00061-01	I/C PKG, POWER SWITCH
IJKL	J0001M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0002M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0003M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0004M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0005M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0006M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0007M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0008M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0010M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0011M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0013M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0014M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0015M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J0016M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
IJKL	J0020M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDIJKLMNOPVWXY	J1401M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDIJKLMNOPVWXY	J1402M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	J2201M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/ 10W
ABCDMNOPRVWXY	JP0001	A-19082-02	JACK ASSEMBLY, 3 PHONO, AUDIO/VIDEO
EFGHIJKLQSTUZabc	JP0001	A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
IJKL	JP0002	A-19082-01	JACK ASSEMBLY, PILLOW SPEAKER CONNECTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	KX3401	195-00161	RELAY, SPST, 12 VDC COIL
IJKL	L0902	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
IJKL	L0903	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1200	020-03907-25A	COIL, 120 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1201	020-04277-09A	COIL, 0.82 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1202	020-04278B	COIL, RCF, TUNABLE, 7.0 MM
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1203	020-03907-12A	COIL, 10 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1204	020-04277-39A	COIL, 10 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1205	020-04277-23A	COIL, 12 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1206	020-04506A	COIL, RCF, FIXED, SHIELDED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L1207	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L2200	020-04129-22	COIL, 15 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L2201	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
EFGHIJKLQRSTU	L4201	020-04277-02A	COIL, 0.22 MICROHENRY, RCF, FIXED
EFGHIJKLQSTU	L4202	020-04493A	COIL, RCF, TUNABLE
EFGHIJKLQSTU	L4203	020-04493A	COIL, RCF, TUNABLE
EFGHIJKLQRSTU	L4204	020-04277-09A	COIL, 0.82 MICROHENRY, RCF, FIXED
EFGHIJKLQRSTU	L4205	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L5100	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L5101	063-10246-46	RESISTOR, FILM, 1.2M OHM 10% 1/2W
A	L5102	149-00583-01	CORE, FERRITE, BEAD
BCDEFGHIJKLMNOPQRSTUVWXYZabc	L5102	F-47318	FERRITE BEAD, AND WIRE ASSEMBLY
BDFHJLNPRTWYac	L6000	020-03907-24A	COIL, 100 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6001	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6002	020-04277-70A	COIL, 1.8 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6003	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6004	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6005	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	L6007	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
Zabc	LX3201	020-04530	COIL, CHOKE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3202	149-00540-01	CORE, FERRITE
Zabc	LX3203	149-00454-01	CORE, FERRITE BEAD
MNOPQRSTUVWXYZabc	LX3262	020-04073-01	COIL, RCF, LINEARITY
ABCDEFGHIJKL	LX3262	020-04142-01	COIL, LINEARITY
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3401	095-04593	TRANSFORMER, LINE CHOKE
IJKL	LX3403	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
A	LX3403	149-00540-01	CORE, FERRITE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3404	149-00540-01	CORE, FERRITE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3405	020-04462-18A	COIL, 33 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3406	020-04462-18A	COIL, 33 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3407	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	LX3410	149-00549	CORE, FERRITE, WITH CAPTIVATED THRU-LEAD
ABCDEFGHIJKLMNOPQRSTUZabc	MPI	078-03481-01	JACK, MODULAR SIDE ENTRY, 6 POSITION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q0800	121-01310A	TRANSISTOR, NPN, SILICON
IJKL	Q0900	121-01310A	TRANSISTOR, NPN, SILICON
IJKL	Q0902	121-01310A	TRANSISTOR, NPN, SILICON
IJKL	Q0903	121-01310A	TRANSISTOR, NPN, SILICON
IJKL	Q0904	121-01310A	TRANSISTOR, NPN, SILICON
IJKL	Q0905	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q1200	121-01261A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q1201	121-01310A	TRANSISTOR, NPN, SILICON

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SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q1202	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2200	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2201	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2202	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2203	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2204	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2205	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2206	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q2207	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3201	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3202	121-01264-01A	TRANSISTOR, NPN, SILICON
Zabc	Q3250	121-01264-01A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3402	121-01340A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3403	121-01340A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3404	121-01102A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q3406	121-01102A	TRANSISTOR, PNP, SILICON
EFGHIJKLQRSTU	Q4200	121-01310A	TRANSISTOR, NPN, SILICON
EFGHIJKLQRSTU	Q4201	121-01310A	TRANSISTOR, NPN, SILICON
EFGHIJKLQRSTU	Q4202	121-01310A	TRANSISTOR, NPN, SILICON
EFGHIJKLQRSTU	Q4203	121-01310A	TRANSISTOR, NPN, SILICON
EFGHIJKLQRSTU	Q4204	121-01261A	TRANSISTOR, NPN, SILICON
EFGHIJKLQRSTU	Q4205	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUZabc	Q4903	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUZabc	Q4904	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUZabc	Q4905	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUZabc	Q4906	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q5101	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q5102	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q5103	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q5104	121-01140A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q6001	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	Q6002	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	QX3203	121-01383	TRANSISTOR, NPN, SILICON
Zabc	QX3251	121-01237	TRANSISTOR, PNP, SILICON
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R0800	063-10235-60	RESISTOR, FILM, 330 OHM 5% 1/4W
EFGHQRSTUZabc	R0811M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHQRSTUZabc	R0812M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
EFGHQRSTUZabc	R0813M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
EFGHQRSTUZabc	R0814	063-10235-12	RESISTOR, FILM, 3.3 OHM 5% 1/4W
EFGHQRSTUZabc	R0821M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDIJKLMNOPVWXY	R0821M	063-11059-85A	RESISTOR, FILM, 33K OHM 5% 1/10W
EFGHQRSTUZabc	R0822M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
ABCDIJKLMNOPVWXY	R0822M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
EFGHQRSTUZabc	R0823M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R0824	063-10235-12	RESISTOR, FILM, 3.3 OHM 5% 1/4W
EFGHQSTUZabc	R0830	063-10565-28C	RESISTOR, FILM, 15 OHM 5% 1/2W
EFGHQSTUZabc	R0831	063-10565-28C	RESISTOR, FILM, 15 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R0832M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
IJKL	R0900M	063-11059-80A	RESISTOR, FILM, 20K OHM 5% 1/10W
IJKL	R0901M	063-11059-80A	RESISTOR, FILM, 20K OHM 5% 1/10W
IJKL	R0902M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R0904M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R0906	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
IJKL	R0907M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
IJKL	R0908M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W

RC	REF	PART#	DESCRIPTION
IJKL	R0909M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R0910M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
IJKL	R0911	063-10235-78	RESISTOR, FILM, 1.8K OHM 5% 1/4W
IJKL	R0912M	063-11059-46A	RESISTOR, FILM, 750 OHM 5% 1/10W
IJKL	R0913	063-10235-78	RESISTOR, FILM, 1.8K OHM 5% 1/4W
IJKL	R0914M	063-11059-46A	RESISTOR, FILM, 750 OHM 5% 1/10W
IJKL	R0915M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
IJKL	R0916M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R0917M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
IJKL	R0918M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
IJKL	R0919M	063-11059-35A	RESISTOR, FILM, 270 OHM 5% 1/10W
IJKL	R0920M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
IJKL	R0921M	063-11059-85A	RESISTOR, FILM, 33K OHM 5% 1/10W
IJKL	R0922M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
IJKL	R0923M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
IJKL	R0924M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
IJKL	R0925M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R0926	063-10235-58	RESISTOR, FILM, 270 OHM 5% 1/4W
IJKL	R0927	063-11160-48B	RESISTOR, FILM, 100 OHM 5% 2W
IJKL	R0930	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
IJKL	R0931	063-10236-08	RESISTOR, FILM, 33K OHM 5% 1/4W
IJKL	R0932M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ACEGIKMOQSUVXZb	R1200M	063-11059-75A	RESISTOR, FILM, 12K OHM 5% 1/10W
BDFHJLNPRTWYac	R1200M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1201M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1202M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1203M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1204	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1205M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1206M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1207M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1208M	063-11059-13A	RESISTOR, FILM, 33 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1209	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1210M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1211M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1212M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1213M	063-11059-46A	RESISTOR, FILM, 750 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1214M	063-11059-49A	RESISTOR, FILM, 1K 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 IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1215M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1216M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1217M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1218M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1219M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1220M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1221M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1222	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1223M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1224M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1225	063-10236-10	RESISTOR, FILM, 39K OHM 5% 1/4W
BDFHJLNPRTWYac	R1226M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R1402	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
EFGHQRSTUZabc	R1403	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
EFGHQRSTUZabc	R1411M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
EFGHQRSTUZabc	R1412M	063-11059-63A	RESISTOR, FILM, 3.9K OHM 5% 1/10W
EFGHQRSTUZabc	R1413M	063-11059-60A	RESISTOR, FILM, 3K OHM 5% 1/10W
EFGHQRSTUZabc	R1414M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
EFGHQRSTUZabc	R1415M	063-11244-76A	RESISTOR, FILM, 61.9K OHM 1% 1/10W
EFGHQRSTUZabc	R1416M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHQRSTUZabc	R1417M	063-11059-71A	RESISTOR, FILM, 8.2K OHM 5% 1/10W
EFGHQRSTUZabc	R1418M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
EFGHQRSTUZabc	R1419M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
EFGHQRSTUZabc	R1420	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
EFGHQRSTUZabc	R1421	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
IJKL	R1460	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2101	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2102M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2103	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2104	063-10236-26	RESISTOR, FILM, 180K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2105	063-10236-30	RESISTOR, FILM, 270K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2106M	063-11060-18A	RESISTOR, FILM, 750K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2107M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2108	063-10236-10	RESISTOR, FILM, 39K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2109M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2110M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2111M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
MNOPQRSTUVWXY	R2112M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLZabc	R2112M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
Zabc	R2113	063-10235-83	RESISTOR, FILM, 3K OHM 5% 1/4W
MNOPQRSTUVWXY	R2113	063-10235-84	RESISTOR, FILM, 3.3K OHM 5% 1/4 W
ABCDEFGHIJKL	R2113	063-10235-85	RESISTOR, FILM, 3.6K OHM 5% 1/4W
ABCDEFGHIJKLZabc	R2114	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
MNOPQRSTUVWXY	R2114	063-10235-90	RESISTOR, FILM, 5.6K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2118	063-10565-61	RESISTOR, FILM, 360 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2119	063-10565-61	RESISTOR, FILM, 360 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2120M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2121	063-10235-94	RESISTOR, FILM, 8.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2122M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2123	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2200M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2201M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2202M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2203M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2204M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2205M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2206M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2207M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2208M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2209M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2210M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2211M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2212M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2213M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2214M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2215M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2216M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2217	063-10235-66	RESISTOR, FILM, 560 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2218M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2219M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2220	063-10235-24	RESISTOR, FILM, 10 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2221M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2222	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2223M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2224	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2225M	063-11059-63A	RESISTOR, FILM, 3.9K 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 IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2226M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2227M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2228M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2229M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2230M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2231M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2232	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2233M	063-11059-76A	RESISTOR, FILM, 13K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2234M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2235M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2236M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
Zabc	R2237M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
MNOPQRSTUVWXY	R2237M	063-11059-55A	RESISTOR, FILM, 1.8K OHM 5% 1/10W
ABCDEFGHIJKL	R2237M	063-11059-59A	RESISTOR, FILM, 2.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2238M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2239	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2240	063-10243-74	RESISTOR, FILM, 1.2K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2241M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2242M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2243M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2244M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2245M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2246M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2247M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2248M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2249M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2252M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2253M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2254M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2255M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2257M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2290	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2291	063-10236-32	RESISTOR, FILM, 330K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R2292	063-10236-44	RESISTOR, FILM, 1M OHM 5% 1/4W
EFGHQRSTUZabc	R2900	063-10236-04	RESISTOR, FILM, 22K OHM 5% 1/4W
ABCDIJKLMNOPVWXY	R2900	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFGHMNOPQRSTUVWXYZabc	R2901	063-10235-40	RESISTOR, FILM, 47 OHM 5% 1/4W
ABCDEFGHMNOPQRSTUVWXYZabc	R2902	063-10235-45	RESISTOR, FILM, 75 OHM 5% 1/4W

RC	REF	PART#	DESCRIPTION
EFGHQRSTUZabc	R2903	063-10236-04	RESISTOR, FILM, 22K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3201M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3202M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3203	063-11087-64	RESISTOR, FILM, 470 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3204	063-11087-66	RESISTOR, FILM, 560 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3205	063-11087-66	RESISTOR, FILM, 560 OHM 5% 1/2W
Zabc	R3250M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
Zabc	R3251	063-10235-94	RESISTOR, FILM, 8.2K OHM 5% 1/4W
Zabc	R3252	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
Zabc	R3253	063-10243-76	RESISTOR, FILM, 1.5K OHM 5% 1/2W
Zabc	R3255	063-10235-86	RESISTOR, FILM, 3.9K OHM 5% 1/4W
Zabc	R3257M	063-11060-05A	RESISTOR, FILM, 220K OHM 5% 1/10W
Zabc	R3258	063-10235-69	RESISTOR, FILM, 750 OHM 5% 1/4W
Zabc	R3259	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
Zabc	R3260	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3412M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3414	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3418M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3419	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3430M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R3431	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
EFGHIJKLQRSTU	R4200	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDMNOSPVWXYZabc	R4201M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
EFGHIJKLQRSTU	R4201M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
EFGHIJKLQRSTU	R4206M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
EFGHIJKLQRSTU	R4207M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
EFGHIJKLQRSTU	R4208	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
EFGHIJKLQRSTU	R4209M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHIJKLQRSTU	R4210M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHIJKLQRSTU	R4211M	063-11059-83A	RESISTOR, FILM, 27K OHM 5% 1/10W
EFGHIJKLQRSTU	R4212M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
EFGHIJKLQRSTU	R4213M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHIJKLQRSTU	R4214M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
EFGHIJKLQRSTU	R4215M	063-11059-83A	RESISTOR, FILM, 27K OHM 5% 1/10W
EFGHIJKLQRSTU	R4216M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
EFGHIJKLQRSTU	R4217M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHIJKLQRSTU	R4218M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
IJKL	R4221M	063-11059-65A	RESISTOR, FILM, 4.7K 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 IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
IJKL	R4222M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
EFGHIJKLQRSTU	R4223M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
EFGHIJKLQRSTU	R4224M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
EFGHIJKLQRSTU	R4225M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
EFGHIJKLQRSTU	R4230M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
EFGHIJKLQRSTU	R4231M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
EFGHIJKLQRSTU	R4232M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
EFGHIJKLQRSTU	R4250M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4982	063-10236-36	RESISTOR, FILM, 470K 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4983	063-10236-44	RESISTOR, FILM, 1M OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4984	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4985M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4986M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4987	063-10235-84	RESISTOR, FILM, 3.3K OHM 5% 1/4 W
ABCDEFGHIJKLMNOPQRSTUZabc	R4989M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4990	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4991	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4992	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4993	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4994M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4995M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUZabc	R4996	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUZabc	R4997	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5101M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5102M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5103	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5105	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5106M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5107	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5108M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5109M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5110	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5112	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5113M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5114	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5115	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5116	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5117M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5118M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5119	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5120	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5121M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5123	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5124M	063-11059-71A	RESISTOR, FILM, 8.2K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5125	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5126	063-10244-28	RESISTOR, FILM, 220K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R5127	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6001M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHMNOPQRSTUVWXYZabc	R6002M	063-11059-27A	RESISTOR, FILM, 120 OHM 5% 1/10W
IJKL	R6002M	063-11059-31A	RESISTOR, FILM, 180 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6003M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6004	063-10236-12	RESISTOR, FILM, 47K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6005M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6006M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6007M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6008	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6009M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6011	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6013	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6014M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6015	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6016	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6026	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6027	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6030	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6031M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6032M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6033M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6034M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6035M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6036M	063-11059-69A	RESISTOR, FILM, 6.8K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6037M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6038M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6039M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6040M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6041	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6042M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W

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SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6043	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6044M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6045M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6046M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6047M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6048M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6049M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6050M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6051M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6052M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6053M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6058M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6059M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6060M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFGHMNOPQRSTUVWXYZabc	R6061M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
IJKL	R6061M	063-11059-56A	RESISTOR, FILM, 2K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6069M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6070M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6072M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6080M	063-11060-18A	RESISTOR, FILM, 750K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	R6090M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
EFGHIJKLQRSTU	R6099M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
MNOPQRSTUVWXY	RX2115	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
ABCDEFGHIJKLZabc	RX2115	063-11110-06	RESISTOR, FILM, 1.8 OHM 5% 1/2W
MNOPQRSTUVWXY	RX2116	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
Zabc	RX2116	063-11110-08	RESISTOR, FILM, 2.2 OHM 5% 1/2W
ABCDEFGHIJKL	RX2116	063-11110-24	RESISTOR, FILM, 10 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX2117	063-10235-10	RESISTOR, FILM, 2.7 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX2124	063-11214-16	RESISTOR, FILM, 0.51 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3008	063-10936-37	RESISTOR, FILM, 2.21K OHM 1% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3009M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3010M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFGHIJKL	RX3013	063-10236-08	RESISTOR, FILM, 33K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3016	063-10936-72	RESISTOR, FILM, 4.32K OHM 1% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3022	063-10936-72	RESISTOR, FILM, 4.32K OHM 1% 1/4W
ABCDEFGHIJKL	RX3207	063-10243-40	RESISTOR, FILM, 47 OHM 5% 1/2W
MNOPQRSTUVWXYZabc	RX3207	063-11087-28	RESISTOR, FILM, 15 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3208	063-10565-10	RESISTOR, FILM, 2.7 OHM 5% 1/2W

RC	REF	PART#	DESCRIPTION
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3209	063-10460-44A	RESISTOR, WIREWOUND, 6.8 OHM 10% 10W
Zabc	RX3210	063-10442-28A	RESISTOR, WIREWOUND, 1.5 OHM 5% 5W
MNOPQRSTUVWXY	RX3210	063-10442-37A	RESISTOR, WIREWOUND, 3.6 OHM 5% 5W
ABCDEFGHIJKL	RX3210	063-11164-02B	RESISTOR, FILM, 1.2 OHM 5% 3W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3210A	086-00848	TERMINAL, PC WIRE GRIP
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3211	063-10565	RESISTOR, FILM, 1 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3212	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKL	RX3214	063-10832-96B	RESISTOR, FILM, 10K OHM 5% 1W
MNOPQRSTUVWXYZabc	RX3214	063-11161-02B	RESISTOR, FILM, 18K OHM 5% 2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3215	063-10832-69B	RESISTOR, FILM, 750 OHM 5% 1W
ABCDEFGHIJKL	RX3216	063-11160-35B	RESISTOR, FILM, 30 OHM 5% 2W
MNOPQRSTUVWXYZabc	RX3216	063-11160-60B	RESISTOR, FILM, 330 OHM 5% 2W
Zabc	RX3256	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3400	063-11264-01	RESISTOR, CARBON COMPOSITION, 5.6M OHM 20% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3401	063-10444-20A	RESISTOR, WIREWOUND, 0.68 OHM 10% 5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3402	063-10244-14	RESISTOR, FILM, 56K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3403	063-10244-14	RESISTOR, FILM, 56K OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3404	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3405	063-10235-36	RESISTOR, FILM, 33 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3406	063-10235-58	RESISTOR, FILM, 270 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3407	063-10559	RESISTOR, FILM, 1 OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3409	063-10236-28	RESISTOR, FILM, 220K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3413	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3415	063-10442-40A	RESISTOR, WIREWOUND, 4.7 OHM 5% 5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3420	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3421	063-11285-07	RESISTOR, FILM, 174K OHM 0.1% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3422	063-10236-19	RESISTOR, FILM, 91K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3423	063-11160-24B	RESISTOR, FILM, 10 OHM 5% 2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3424	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3425	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX3440	063-11283-45	RESISTOR, FILM, 3.57K OHM 0.1% 1/4W
IJKL	RX3451	063-11264-02	RESISTOR, CARBON COMPOSITION, 10M OHM 20% 1/2W
IJKL	RX3452	063-10559-08	RESISTOR, FILM, 2.2 OHM 5% 1/4W
IJKL	RX3453	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX5104	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX5111	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	RX5122	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	THX3415	063-10710A	RESISTOR, THERMISTOR

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

SEE IDENTIFIERS ON PAGE 4-5

RC	REF	PART#	DESCRIPTION
BDFHJLNPRTWYac	TU6000	175-02720-01	TUNER, VARACTOR, 181 CHANNEL, SINGLE IC, WORLD STAN
ACEGIKMOQSUVXZb	TU6000	175-02770	TUNER, VARACTOR, 181 CHANNEL, SINGLE IC, WORLD STAND
MNOPQRSTUVWXYZabc	TX3204	095-04372-01	SWEEP XFMR, COLOR FINAL, MINI
ABCDEFGHIJKL	TX3204	095-04372-03	SWEEP XFMR, COLOR, FINAL, MINI
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	TX3205	095-04477-01	TRANSFORMER, HORIZONTAL DRIVER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	TX3401	095-04577	TRANSFORMER, CHOPPER
IJKL	TX3402	095-04581	TRANSFORMER, ISOLATION
X	TX3601	095-04584	TRANSFORMER, CHOPPER
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	U1200	224-00160	FILTER, SURFACE ACOUSTIC WAVE
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	U1201	224-00139-01A	FILTER, 4.5 MHZ CERAMIC BANDPASS
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	U1202	224-00023A	CERAMIC FILTER, 4.5 MHZ TRAP
EFGHQRSTUZabc	W0037	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
IJKL	W0038	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
EFGHIJKLQRSTU	W0099	020-04277-22A	COIL, 10 MICROHENRY, RCF, FIXED
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	W0104	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
ACEGIKMOQSUVXZb	W0107	020-03907-21A	COIL, 56 MICROHENRY, RCF, FIXED
ABCDEFGHMNOPQRSTUVWXYZabc	ZD2901	103-00279-18A	DIODE, ZENER, 9.1V 0.5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ZD6001	103-00279-36A	DIODE, ZENER, 33V 0.5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ZDX3004	103-00472A	DIODE, ZENER, 12V 0.5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ZDX3401	103-00279-15A	DIODE, ZENER, 7.5V 0.5W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ZDX3402	103-00301-06A	DIODE, ZENER, 5.6V 1W
ABCDEFGHIJKLMNOPQRSTUVWXYZabc	ZDX3404	103-00279-18A	DIODE, ZENER, 9.1V 0.5W

RC	REF	PART#	DESCRIPTION

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

The following information is for models in and out of warranty. For any models not listed, refer to the H2 Component Parts List starting on page 4-5.

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

H2 KEY	
MODEL	IDENTIFIER
H1934Y4	A
H2034Y4	A
H2035DT4	B
H2050DT4	C
H2534Y4	D
H2535DT4	E
H2539Y4	F
H2735DT4	G

SEE IDENTIFIERS ON PAGE 4-17

RC	REF	PART#	DESCRIPTION
ABCDEFG	10VGA1	050-02520-13	CONNECTOR AND, CABLE ASSEMBLY, TWISTED
ABCDEFG	1E11	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFG	1VGA10	058-00542-10	PLUG, 2.5 MM, 10 POSITION
ABCDEFG	2E6	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFG	2H4	058-00586-02	PLUG, MULTIPRONG, NATURAL COLOR, 2 POSITION
ABDEFG	2P6	058-00526-02	PLUG, 0.098P 2 CONTACT
ABCDEFG	3R8	058-00570-02	PLUG, MULTIPRONG, 2 POSITION
BEG	4E9	058-00586-06	PLUG, MULTIPRONG, NATURAL COLOR, 6 POSITION
ABCDEFG	4G9	058-00542-05	PLUG, 2.5 MM, 5 POSITION
ABCDEFG	4H2	058-00586-02	PLUG, MULTIPRONG, NATURAL COLOR, 2 POSITION
ADF	9M4	058-00526-02	PLUG, 0.098P 2 CONTACT
ABCDEFG	C0800	022-08310-12A	CAP, 100 MFD 20% 25V, ELECTRO
ABCDEFG	C0801	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C0802	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
BEG	C0811	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
BEG	C0812M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
BEG	C0813	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
BEG	C0814	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
BEG	C0815	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ACDF	C0816	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
BEG	C0821	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ACDF	C0822M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
BEG	C0822M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
BEG	C0823	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFG	C0824	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C0825	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
C	C0906	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
ABCDEFG	C1204M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C1209M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C1210	022-08309-15A	CAP, 470 MFD 20% 16V, ELECTRO
ABCDEFG	C1211M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C1212	022-08312-03A	CAP, 0.47 MFD 20% 50V, ELECTRO
BEG	C1213M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ACDF	C1213M	022-08366-16A	CAP, 4,700 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C1214	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	C1215M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C1216	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFG	C1217M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C1218M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C1219M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C1220M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFG	C1221M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C1222	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFG	C1223M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C1224M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFG	C1402	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BEG	C1403	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BEG	C1411M	022-08370-22A	CAP, 15,000 PFD 10% 16V, CERAMIC CHIP
BEG	C1412M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
BEG	C1413	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BEG	C1414	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BEG	C1415	022-07669-15A	CAP, 10 MFD 10% 50V, ELECTRO
BEG	C1416	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
BEG	C1417	022-07669-14A	CAP, 3.3 MFD 10% 50V, ELECTRO
BEG	C1418	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
BEG	C1419	022-08257-17A	CAP, 2700 PFD 10% 50V, CERAMIC DISC
BEG	C1420	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
BEG	C1421	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BEG	C1422	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
BEG	C1423	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO

RC	REF	PART#	DESCRIPTION
BEG	C1424M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
BEG	C1425	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BEG	C1426	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
BEG	C1427	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BEG	C1428	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BEG	C1429	022-08049-13A	CAP, 0.012 MFD 10% 50V, POLY
BEG	C1430	022-08257-21A	CAP, 5600 PFD 10% 50V, CERAMIC DISC
BEG	C1431	022-08188-05A	CAP, 10 MFD 20% 25V, NONPLZD ELECTRO
BEG	C1432M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
BEG	C1433M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
BEG	C1434M	022-08370-22A	CAP, 15,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFG	C2101	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	C2102	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C2103	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C2104	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	C2106	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C2108	022-08310-11A	CAP, 47 MFD 20% 25V, ELECTRO
ABCDEFG	C2109	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	C2111	022-07786C	CAP, 1000 PFD 10% 500V, CERAMIC DISC
ABCDEFG	C2112	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFG	C2200M	022-08352-14A	CAP, 12 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C2201	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFG	C2202	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFG	C2203	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFG	C2204M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C2205M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C2206	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	C2208	022-08312-05A	CAP, 2.2 MFD 20% 50V, ELECTRO
ABCDEFG	C2209	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFG	C2210M	022-08370-24A	CAP, 22,000 PFD 10% 16V, CERAMIC CHIP
ABCDEFG	C2213M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C2214M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C2215M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C2216	022-08312-04A	CAPACITOR, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C2217M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C2218	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C2219	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C2220	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFG	C2221	022-08312A	CAP, 0.1 MFD 20% 50V, ELECTRO
ABCDEFG	C2222	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	C2223	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFG	C2224	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C2225	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	C2226	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C2227	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C2228M	022-08354-41A	CAP, 160 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C2234M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C2235M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C2236M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C2237M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C2290	022-08310-10A	CAP, 33 MFD 20% 25V, ELECTRO
ABCDEFG	C2290M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C3201M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C3202	022-08257-08A	CAP, 470 PFD 10% 50V, CERAMIC DISC
ABCDEFG	C3203	022-08049-16A	CAP, 0.022 MFD 10% 50V, POLY
ABCDEFG	C3204	022-07786-17C	CAP, 2200 PFD 10% 500V, CERAMIC DISC
ABCDEFG	C3206	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	C3209	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
G	C3250	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
G	C3255	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDFG	C3614	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFG	C3615	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
C	C4003	022-08228-11A	CAP, 0.1 MFD 10% 50V, POLY

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

SEE IDENTIFIERS ON PAGE 4-17

RC	REF	PART#	DESCRIPTION
C	C4004	022-08312-09A	CAP, 22 MFD 20% 50V, ELECTRO
BCE	C4202M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
BCE	C4203M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
BCE	C4205M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
BCE	C4207	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
BCE	C4208M	022-08352-17A	CAP, 16 PFD 5% 50V, CERAMIC CHIP
BCE	C4215M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
BCE	C4216M	022-08352-24A	CAP, 33 PFD 5% 50V, CERAMIC CHIP
BCE	C4217M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
BCE	C4218	022-08049-20A	CAP, 0.047 MFD 10% 50V, POLY
BCE	C4219	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BCE	C4220	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BCE	C4221	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BCE	C4222	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
BCE	C4223M	022-08352-17A	CAP, 16 PFD 5% 50V, CERAMIC CHIP
BCE	C4230M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
BCE	C4231M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
BCE	C4232	022-07773-23A	CAP, 0.082 MFD 5% 100V, POLY
BCE	C4233M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
BCE	C4234	022-08310-11A	CAP, 47 MFD 20% 25V, ELECTRO
BCE	C4250	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
BCE	C4250M	022-08352-40A	CAP, 150 PFD 5% 50V, CERAMIC CHIP
BCE	C4252M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEG	C4946	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEG	C4965	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEG	C4966	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEG	C4967	022-08257-04A	CAP, 220 PFD 10% 50V, CERAMIC DISC
ABCDEFG	C5101	022-08318-04A	CAP, 1 MFD 20% 350V, ELECTRO
ABCDEFG	C5102M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C5103M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C5104	022-07523-01B	CAP, 0.01 MFD +80 % & -2, CERAMIC DISC
ABCDEFG	C5105M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C5106M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C5107	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFG	C5109M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C5110	022-08049-24A	CAP, 0.10 MFD 10% 50V, POLY
ABCDEFG	C5111	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFG	C5118M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6001M	022-08352-38A	CAP, 120 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6003M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6005M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6006	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C6007M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6009M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFG	C6010M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6011M	022-08352-19A	CAP, 20 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6012M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6013	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFG	C6014M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6015M	022-08352-22A	CAP, 27 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6016	022-08312-05A	CAP, 2.2 MFD 20% 50V, ELECTRO
ABCDEFG	C6017M	022-08376-32A	CAP, 100,000 PFD +80% & -20% 16V, CERAMIC CHIP
ABCDEFG	C6018M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6019M	022-08352-42A	CAP, 180 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6020	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	C6021M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6023M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6024M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6025M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6028	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	C6029M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6030	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO

RC	REF	PART#	DESCRIPTION
ABCDEFG	C6031M	022-08366-18A	CAP, 6,800 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6032	022-08312-04A	CAP, 1 MFD 20% 50V, ELECTRO
ABCDEFG	C6033M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6036M	022-08366-08A	CAP, 1,000 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6037M	022-08366A	CAP, 220 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6038M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6040M	022-08352-42A	CAP, 180 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6041M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6042M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6043M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6045M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6046M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6047M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6048M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6049M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6050M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6051M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6052M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6053M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6054M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6055M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6056M	022-08368-20A	CAP, 10,000 PFD 10% 25V, CERAMIC CHIP
ABCDEFG	C6058M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6059M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6060M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6061M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6079M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6090M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6091M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6092M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6093M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6094M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6095M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	C6097M	022-08366-04A	CAP, 470 PFD 10% 50V, CERAMIC CHIP
ABCDEFG	C6098	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
BCE	C6099M	022-08352-28A	CAP, 47 PFD 5% 50V, CERAMIC CHIP
ABCDEFG	CON0001	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFG	CON0002	078-03553-01	CONNECTOR, 11 POSITION, BEIGE
ABCDEFG	CR2200	224-00027A	CRYSTAL, QUARTZ, 3.579 MHZ
ABCDEFG	CR2201	224-00178	RESONATOR, CERAMIC, 503 KHZ
ABCDEFG	CRT0001	078-03394-09	SOCKET, CRT
BCE	CRY4200	224-00194	CRYSTAL, QUARTZ, 54 MHZ
BCE	CRY4202	224-00195	RESONATOR, CERAMIC, 456 KHZ
BCE	CRY4203	224-00196	RESONATOR, CERAMIC DISCRIMINATOR, 10.7 MHZ
BCE	CRY4204	224-00153	FILTER, CERAMIC, 10.7 MHZ
ABCDEFG	CRY6001	224-00074-02A	CRYSTAL, QUARTZ, 8 MHZ
ABCDEFG	CX2105	022-08311-13	CAP, 220 MFD 20% 35V, ELECTRO
ABCDEFG	CX2107	022-08310-17	CAP, 2200 MFD 20% 25V, ELECTRO
ABCDEFG	CX2110	022-08311-12A	CAP, 100 MFD 20% 35V, ELECTRO
ABCDEFG	CX3003	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	CX3004	022-08312-08A	CAP, 10 MFD 20% 50V, ELECTRO
ABCDEFG	CX3007	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABCDEFG	CX3205	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
ABCDEFG	CX3207A	022-08159	CAPACITOR, 0.68 MFD 10% 200V, POLY
ABCDEFG	CX3208	022-08317-08	CAPACITOR, 10 MFD 20% 250V, ELECTRO
G	CX3210	022-08386-05	CAP, 560 PFD 10% 2000V, CERAMIC DISC
DEF	CX3212	022-08386-01	CAP, 270 PFD 10% 2000V, CERAMIC DISC
G	CX3212	022-08386-05	CAP, 560 PFD 10% 2000V, CERAMIC DISC
ABC	CX3212	022-08386-12	CAPACITOR, 2200 PFD 10% 2000V, CERAMIC DISC
ABCDEFG	CX3215	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
ABC	CX3216	022-08229-22	CAPACITOR, 0.0082 MFD 3% 1600VDC, POLYPROP

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

SEE IDENTIFIERS ON PAGE 4-17

RC	REF	PART#	DESCRIPTION
DEF	CX3216	022-08229-26	CAP, 0.012 MFD 3% 1600VDC, POLYPROP
G	CX3216	022-08229-29	CAP, 0.016 MFD 3% 1600VDC, POLYPROP
ABC	CX3217	022-08231-11	CAPACITOR, 0.39 MFD 5% 200V, POLYPROP
DEFG	CX3217	022-08231-12	CAP, 0.47 MFD 5% 200V, POLYPROP
ABCDEFG	CX3218	022-08315-05A	CAP, 2.2 MFD 20% 160V, ELECTRO
G	CX3251	022-08057-01	CAP, 4.7 MFD 20% 50V, NONPLZD ELECTRO
G	CX3252	022-08116-05	CAP, .027 MFD 5% 630V, POLYPROP
ABCDEFG	CX3253	022-08312-11A	CAP, 47 MFD 20% 50V, ELECTRO
ABCDEFG	CX3254	022-07786-10C	CAP, 470 PFD 10% 500V, CERAMIC DISC
G	CX3256	022-08116-01	CAP, 0.012 MFD 5% 630V, POLYPROP
ABCDEFG	CX3400	022-07431-06B	CAPACITOR, 0.0047 MFD 20%, CERAMIC DISC
ABC	CX3401	022-07431-06B	CAP, 0.0047 MFD 20%, CERAMIC DISC
DEFG	CX3401	022-07867-10	CAPACITOR, 0.1 MFD 20% 250VAC, POLY
ABCDEFG	CX3402	022-07431-06B	CAPACITOR, 0.0047 MFD 20%, CERAMIC DISC
ABCDEFG	CX3403	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	CX3404	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	CX3405	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	CX3406	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	CX3407	022-08444-09	CAPACITOR, 330 MFD 20% 200V, ELECTRO
ABCDEFG	CX3601	022-08386-12	CAP, 2200 PFD 10% 2000V, CERAMIC DISC
ABCDEFG	CX3602	022-08386-12	CAP, 2200 PFD 10% 2000V, CERAMIC DISC
ABCDEFG	CX3603	022-07786-17C	CAP, 2200 PFD 10% 500V, CERAMIC DISC
ABCDEFG	CX3607	022-08310-12A	CAP, 100 MFD 20% 25V, ELECTRO
ABCDEFG	CX3610	022-08444-07	CAP, 220 MFD 20% 200V, ELECTRO
ABCDEFG	CX3611	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFG	CX3612	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFG	CX3700	022-08242-34A	CAP, 100 PFD 10% 50V, CERAMIC DISC
ABCDEFG	CX3701	022-07811A	CAP, 1000 PFD 10% 1000V, CERAMIC DISC
ABCDEFG	CX3800	022-08310-16	CAP, 1000 MFD 20% 25V, ELECTRO
ABCDEFG	CX3801	022-08312-07A	CAP, 4.7 MFD 20% 50V, ELECTRO
ABCDEFG	CX3802	022-08309-13A	CAP, 220 MFD 20% 16V, ELECTRO
ABCDEFG	CX3803	022-08310-15	CAP, 470 MFD 20% 25V, ELECTRO
ABCDEFG	CX3804	022-08310-13A	CAP, 220 MFD 20% 25V, ELECTRO
ABCDEFG	CX3806	022-08309-12A	CAP, 100 MFD 20% 16V, ELECTRO
C	CX4000	022-07431-04	CAP, 0.001 MFD +20 % -20 %, CERAMIC DISC
C	CX4002	022-08310-13A	CAP, 220 MFD 20% 25V, ELECTRO
ABCDEFG	D2200	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D2201	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D2202	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D2203	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D2204	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D3500	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABC	D3610	103-00417-07	DIODE, LOW VOLTAGE GENERAL, SILICON
DEFG	D3610	103-00589	DIODE, FAST RECOVERY RECTIFIER, 400 PIV
ABCDEFG	D3611	103-00589	DIODE, FAST RECOVERY RECTIFIER, 400 PIV
ABCDEFG	D3612	103-00417-07	DIODE, LOW VOLTAGE GENERAL, SILICON
C	D4000	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	D5102	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	D5105	103-00279-04A	DIODE, ZENER, 3V 0.5W
ABCDEFG	D6001	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	D6002	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DAG0000	A-19197	GROUNDING ASSY, WIRE AND TERMINAL, WHITE, DAG
ABCDEFG	DAG0001	A-19197	GROUNDING ASSY, WIRE AND TERMINAL, WHITE, DAG
ABCDEFG	DX2101	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFG	DX2102	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX2103	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX2104	103-00339-04A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFG	DX3005	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX3006	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3201	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3203	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
ABCDEFG	DX3204	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE

RC	REF	PART#	DESCRIPTION
G	DX3250	103-00305-01A	DIODE, HIGH VOLTAGE GENERAL, SILICON
G	DX3251	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3252	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3401	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3402	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3403	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3404	103-00588A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3601	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX3602	103-00344-06A	DIODE, LOW VOLTAGE GENERAL
ABCDEFG	DX3604	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX3700	103-00461A	DIODE, FAST SWITCHING, HIGH CONDUCTANCE
ABCDEFG	DX3901	103-00347-03A	DIODE, LOW VOLTAGE GENERAL, SILICON
C	EX3401	038-00102	SPARK GAP, HIGH VOLTAGE, 4KV DC
ABDEFG	EX3401	A-19238-01	SPARK GAP ASSY
B	FX3401	136-00114-23C	FUSE, NORMAL LAG, 4 AMP 250V
ABCDEFG	FX3601	136-00148-23	FUSE, NORMAL LAG, 3 AMP 250V
ABCDEFG	FX3602	136-00148-23	FUSE, NORMAL LAG, 3 AMP 250V
BEG	IC0800	221-00598-01	I/C, AUDIO POWER AMPLIFIER, 3.5W/2 CHAN
ACDF	IC0801	221-01381	I/C, AUDIO AMPLIFIER, 2 WATT, MONAURAL
C	IC0902	162-00051	PHOTO-OPTIC, COUPLER, 1 CHANNEL
C	IC0903	162-00052	PHOTO-OPTIC, COUPLER, 2 CHANNEL
BEG	IC1400	221-01127	I/C, MTS STEREO DECODER/VOL.LIMITER AND
ABCDEFG	IC2100	221-00992-01	I/C, VERTICAL DEFLECTION
BCE	IC4201	221-01020	I/C, AM/FM RADIO RECEIVER
ABCDEFG	IC6000	078-03443	CONNECTOR, 52 POSITION
ABCDEFG	IC6000	126-03446-03	SHIELD, EMI, MICROPROCESSOR
B	IC6000	221-01390	I/C, 8-BIT MICROCOMPUTER
ACDEFG	IC6000	221-01390-01	I/C, 8-BIT MICROCOMPUTER
ABCDEFG	IC6001	221-00745-05	I/C, 8K BIT SERIAL EEPROM
ABCDEFG	IC6002	221-01177A	I/C, SYSTEM RESET
ABCDEFG	ICX2200	221-01165	I/C, I2C BUS CONTROL NTSC
ABCDEFG	ICX3501	162-00051	PHOTO-OPTIC, COUPLER, 1 CHANNEL
ABCDEFG	ICX3612	223-00060-03	I/C, THICK FILM, HYBRID, VOLT REGULATOR
ABCDEFG	ICX3701	162-00028-01	OPTO-COUPLER
ABCDEFG	ICX3702	221-00213	I/C, 5 VOLT, 1 AMP LINEAR, REGULATOR
ABCDEFG	ICX3801	221-00213-09	I/C, 9 VOLT, 1 AMP, LINEAR, REGULATOR
ABCDEFG	ICX3802	221-00213	I/C, 5 VOLT, 1 AMP LINEAR, REGULATOR
C	J0001M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0002M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0003M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0004M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0005M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0006M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0007M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0008M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0010M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0011M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0013M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0014M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0015M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J0016M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
C	J0020M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ACDF	J1401M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ACDF	J1402M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	J2201M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ADF	JP0001	A-19082-02	JACK ASSEMBLY, 3 PHONO, AUDIO/VIDEO
BCEG	JP0001	A-19082-03	JACK ASSEMBLY, 4 PHONO, AUDIO/VIDEO
C	JP0002	A-19082-01	JACK ASSEMBLY, PILLOW SPEAKER CONNECTION
ABCDEFG	KX3901	195-00161	RELAY, SPST, 12 VDC COIL
ABCDEFG	L1200	020-03907-25A	COIL, 120 MICROHENRY, RCF, FIXED

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RC	REF	PART#	DESCRIPTION
ABCDEFG	L1201	020-04277-09A	COIL, 0.82 MICROHENRY, RCF, FIXED
ABCDEFG	L1202	020-04278B	COIL, RCF, TUNABLE, 7.0 MM
ABCDEFG	L1203	020-03907-12A	COIL, 10 MICROHENRY, RCF, FIXED
ABCDEFG	L1204	020-04277-39A	COIL, 10 MICROHENRY, RCF, FIXED
ABCDEFG	L1205	020-04277-23A	COIL, 12 MICROHENRY, RCF, FIXED
ABCDEFG	L1206	020-04506A	COIL, RCF, FIXED, SHIELDED
ABCDEFG	L1207	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFG	L1210	020-03907-21A	COIL, 56 MICROHENRY, RCF, FIXED
ABCDEFG	L2200	020-04129-22	COIL, 15 MICROHENRY, RCF, FIXED
ABCDEFG	L2201	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
BCE	L4201	020-04277-02A	COIL, 0.22 MICROHENRY, RCF, FIXED
BCE	L4202	020-04493A	COIL, RCF, TUNABLE
BCE	L4203	020-04493A	COIL, RCF, TUNABLE
BCE	L4204	020-04277-09A	COIL, 0.82 MICROHENRY, RCF, FIXED
BCE	L4205	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFG	L5100	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
ABCDEFG	L5101	063-10246-46	RESISTOR, FILM, 1.2M OHM 10% 1/2W
ABCDEFG	L5102	149-00583-01	CORE, FERRITE, BEAD
ABCDEFG	L6001	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
ABCDEFG	L6002	020-04277-70A	COIL, 1.8 MICROHENRY, RCF, FIXED
ABCDEFG	L6003	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFG	L6004	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFG	L6005	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFG	L6007	020-04129-16	COIL, 4.7 MICROHENRY, RCF, FIXED
G	LX3201	020-04530	COIL, CHOKE
ABCDEFG	LX3202	149-00540-01	CORE, FERRITE
G	LX3203	149-00454	CORE, FERRITE
DEFG	LX3262	020-04073-01	COIL, RCF, LINEARITY
ABC	LX3262	020-04142-01	COIL, LINEARITY
DEFG	LX3401	095-04630	TRANSFORMER, LINE CHOKE
ABC	LX3401	095-04631	TRANSFORMER, LINE CHOKE
ADEFG	LX3404	149-00540-01	CORE, FERRITE
ABCDEFG	LX3601	149-00540-01	CORE, FERRITE
ABCDEFG	LX3602	149-00540-01	CORE, FERRITE
ABCDEFG	LX3603	149-00549	CORE, FERRITE, WITH CAPTIVATED THRU-LEAD
ABCDEFG	LX3604	149-00540-01	CORE, FERRITE
ABCDEFG	LX3605	149-00540-01	CORE, FERRITE
ABCDEFG	LX3606	149-00540-01	CORE, FERRITE
ABCDEFG	LX3801	020-04462-20A	COIL, 47 MICROHENRY, RCF, FIXED
ABCDEFG	LX3802	020-04462-20A	COIL, 47 MICROHENRY, RCF, FIXED
ABCDEFG	LX3803	020-04129-08	COIL, 1 MICROHENRY, RCF, FIXED
ABCDEFG	LX3804	020-03907-28A	COIL, 220 MICROHENRY, RCF, FIXED
ABCDEFG	LX3805	020-04462-20A	COIL, 47 MICROHENRY, RCF, FIXED
ABCDEG	MPI	078-03481-01	JACK, MODULAR SIDE ENTRY, 6 POSITION
ABC	PCB	204-03394	PRINTED CIRCUIT, MAIN, CH CHASSIS
ABCDEFG	Q0800	121-01310A	TRANSISTOR, NPN, SILICON
C	Q0902	121-01310A	TRANSISTOR, NPN, SILICON
C	Q0903	121-01310A	TRANSISTOR, NPN, SILICON
C	Q0904	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q1200	121-01261A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q1201	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q1202	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q2200	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2201	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2202	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2203	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q2204	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2205	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2206	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q2207	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q3201	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q3202	121-01264-01A	TRANSISTOR, NPN, SILICON
G	Q3250	121-01264-01A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q3500	121-01310A	TRANSISTOR, NPN, SILICON

RC	REF	PART#	DESCRIPTION
ABCDEFG	Q3501	121-01102A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q3502	121-01102A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q3801	121-01102A	TRANSISTOR, PNP, SILICON
ABCDEFG	Q3802	121-01340A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q3901	121-01340A	TRANSISTOR, NPN, SILICON
BCE	Q4200	121-01310A	TRANSISTOR, NPN, SILICON
BCE	Q4201	121-01310A	TRANSISTOR, NPN, SILICON
BCE	Q4202	121-01310A	TRANSISTOR, NPN, SILICON
BCE	Q4203	121-01310A	TRANSISTOR, NPN, SILICON
BCE	Q4204	121-01261A	TRANSISTOR, NPN, SILICON
BCE	Q4205	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEG	Q4903	121-01311A	TRANSISTOR, PNP, SILICON
ABCDEG	Q4904	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEG	Q4905	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEG	Q4906	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q5101	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFG	Q5102	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFG	Q5103	121-01291-01	TRANSISTOR, NPN, SILICON
ABCDEFG	Q5104	121-01140A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q6001	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	Q6002	121-01310A	TRANSISTOR, NPN, SILICON
ABCDEFG	QX3203	121-01383	TRANSISTOR, NPN, SILICON
G	QX3251	121-01237	TRANSISTOR, PNP, SILICON
ABCDEFG	R0800	063-10235-60	RESISTOR, FILM, 330 OHM 5% 1/4W
BEG	R0811M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BEG	R0812M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
BEG	R0813M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
BEG	R0814	063-10235-12	RESISTOR, FILM, 3.3 OHM 5% 1/4W
BEG	R0821M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ACDF	R0821M	063-11059-85A	RESISTOR, FILM, 33K OHM 5% 1/10W
BEG	R0822M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
ACDF	R0822M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
BEG	R0823M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R0824	063-10235-12	RESISTOR, FILM, 3.3 OHM 5% 1/4W
G	R0830	063-10565-28	RESISTOR, FILM, 15 OHM 5% 1/2W
BEG	R0830	063-10565-28C	RESISTOR, FILM, 15 OHM 5% 1/2W
G	R0831	063-10565-28	RESISTOR, FILM, 15 OHM 5% 1/2W
BEG	R0831	063-10565-28C	RESISTOR, FILM, 15 OHM 5% 1/2W
ABCDEFG	R0832M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
C	R0900	063-11160-24B	RESISTOR, FILM, 10 OHM 5% 2W
C	R0901	063-10235-66	RESISTOR, FILM, 560 OHM 5% 1/4W
C	R0906	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0907M	063-11059-37A	RESISTOR, FILM, 330 OHM 5% 1/10W
C	R0908	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
C	R0909	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
C	R0910	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0911	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0912	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0913	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0914	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
C	R0915	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
C	R0916M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
C	R0917	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
C	R0918M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
C	R0919	063-10235-58	RESISTOR, FILM, 270 OHM 5% 1/4W
C	R0920	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
C	R0921	063-10236-08	RESISTOR, FILM, 33K OHM 5% 1/4W
C	R0922M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
C	R0923M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
C	R0924M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
C	R0925M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
C	R0926	063-10235-58	RESISTOR, FILM, 270 OHM 5% 1/4W
C	R0928	063-10243-16	RESISTOR, FILM, 4.7 OHM 5% 1/2W
ABCDEFG	R1200M	063-11059-75A	RESISTOR, FILM, 12K 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 IDENTIFIERS ON PAGE 4-17

RC	REF	PART#	DESCRIPTION
ABCDEFG	R1201M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R1202M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R1203M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFG	R1204	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
ABCDEFG	R1205M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R1206M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R1207M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
ABCDEFG	R1208M	063-11059-13A	RESISTOR, FILM, 33 OHM 5% 1/10W
ABCDEFG	R1209	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R1210M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R1211M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R1212M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFG	R1213M	063-11059-46A	RESISTOR, FILM, 750 OHM 5% 1/10W
ABCDEFG	R1214M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R1215M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R1216M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R1217M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFG	R1218M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R1219M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R1220M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R1221M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R1222	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	R1223M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFG	R1224M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFG	R1225	063-10236-10	RESISTOR, FILM, 39K OHM 5% 1/4W
ABCDEFG	R1402	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
BEG	R1403	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABDEG	R1404	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
F	R1404	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
BEG	R1411M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
BEG	R1412M	063-11059-63A	RESISTOR, FILM, 3.9K OHM 5% 1/10W
BEG	R1413M	063-11059-60A	RESISTOR, FILM, 3K OHM 5% 1/10W
BEG	R1414M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
BEG	R1415M	063-11244-76A	RESISTOR, FILM, 61.9K OHM 1% 1/10W
BEG	R1416M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BEG	R1417M	063-11059-71A	RESISTOR, FILM, 8.2K OHM 5% 1/10W
BEG	R1418M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
BEG	R1419M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
BEG	R1420	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
BEG	R1421	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R2101	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	R2102M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R2103	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R2104	063-10236-26	RESISTOR, FILM, 180K OHM 5% 1/4W
ABCDEFG	R2105	063-10236-30	RESISTOR, FILM, 270K OHM 5% 1/4W
ABCDEFG	R2106M	063-11060-18A	RESISTOR, FILM, 750K OHM 5% 1/10W
ABCDEFG	R2107M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
ABCDEFG	R2108	063-10236-10	RESISTOR, FILM, 39K OHM 5% 1/4W
ABCDEFG	R2109M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFG	R2110M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFG	R2111M	063-11059-89A	RESISTOR, FILM, 47K OHM 5% 1/10W
DEF	R2112M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCG	R2112M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
G	R2113	063-10235-83	RESISTOR, FILM, 3K OHM 5% 1/4W
DEF	R2113	063-10235-84	RESISTOR, FILM, 3.3K OHM 5% 1/4 W
ABC	R2113	063-10235-85	RESISTOR, FILM, 3.6K OHM 5% 1/4W
ABCG	R2114	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
DEF	R2114	063-10235-90	RESISTOR, FILM, 5.6K OHM 5% 1/4W
ABCDEFG	R2118	063-10565-61	RESISTOR, FILM, 360 OHM 5% 1/2W
ABCDEFG	R2119	063-10565-61	RESISTOR, FILM, 360 OHM 5% 1/2W
ABCDEFG	R2120M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFG	R2121	063-10235-94	RESISTOR, FILM, 8.2K OHM 5% 1/4W
ABCDEFG	R2122M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R2123	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W

RC	REF	PART#	DESCRIPTION
ABCDEFG	R2200M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	R2201M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFG	R2202M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2203M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFG	R2204M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2205M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFG	R2206M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2207M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R2208M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R2209M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFG	R2210M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFG	R2211M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R2212M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFG	R2213M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFG	R2214M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R2215M	063-11059-47A	RESISTOR, FILM, 820 OHM 5% 1/10W
ABCDEFG	R2216M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFG	R2217	063-10235-66	RESISTOR, FILM, 560 OHM 5% 1/4W
ABCDEFG	R2218M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2219M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEFG	R2220	063-10235-24	RESISTOR, FILM, 10 OHM 5% 1/4W
ABCDEFG	R2221M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2222	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R2223M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFG	R2224	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFG	R2225M	063-11059-63A	RESISTOR, FILM, 3.9K OHM 5% 1/10W
ABCDEFG	R2226M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2227M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEFG	R2228M	063-11059-57A	RESISTOR, FILM, 2.2K OHM 5% 1/10W
ABCDEFG	R2229M	063-11059-39A	RESISTOR, FILM, 390 OHM 5% 1/10W
ABCDEFG	R2230M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R2231M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2232	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	R2233M	063-11059-76A	RESISTOR, FILM, 13K OHM 5% 1/10W
ABCDEFG	R2234M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2235M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFG	R2236M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
G	R2237M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
DEF	R2237M	063-11059-55A	RESISTOR, FILM, 1.8K OHM 5% 1/10W
ABC	R2237M	063-11059-59A	RESISTOR, FILM, 2.7K OHM 5% 1/10W
ABCDEFG	R2238M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
ABCDEFG	R2239	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R2240	063-10243-74	RESISTOR, FILM, 1.2K OHM 5% 1/2W
ABCDEFG	R2241M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFG	R2242M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R2243M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFG	R2244M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R2245M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2246M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R2247M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2248M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R2249M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R2252M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2253M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEFG	R2254M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2255M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R2257M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFG	R2290	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R2291	063-10236-32	RESISTOR, FILM, 330K OHM 5% 1/4W
ABCDEFG	R2292	063-10236-44	RESISTOR, FILM, 1M OHM 5% 1/4W
BEG	R2900	063-10236-04	RESISTOR, FILM, 22K OHM 5% 1/4W
ACDF	R2900	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABDEFG	R2901	063-10235-40	RESISTOR, FILM, 47 OHM 5% 1/4W
ABDEFG	R2902	063-10235-45	RESISTOR, FILM, 75 OHM 5% 1/4W

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

SEE IDENTIFIERS ON PAGE 4-17

RC	REF	PART#	DESCRIPTION
BEG	R2903	063-10236-04	RESISTOR, FILM, 22K OHM 5% 1/4W
ABCDEFG	R3201M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R3202M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R3203	063-11087-64	RESISTOR, FILM, 470 OHM 5% 1/2W
ABCDEFG	R3204	063-11087-66	RESISTOR, FILM, 560 OHM 5% 1/2W
ABCDEFG	R3205	063-11087-66	RESISTOR, FILM, 560 OHM 5% 1/2W
G	R3250M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
G	R3251	063-10235-94	RESISTOR, FILM, 8.2K OHM 5% 1/4W
G	R3252	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
G	R3253	063-10243-76	RESISTOR, FILM, 1.5K OHM 5% 1/2W
G	R3255	063-10235-86	RESISTOR, FILM, 3.9K OHM 5% 1/4W
G	R3257M	063-11060-05A	RESISTOR, FILM, 220K OHM 5% 1/10W
G	R3258	063-10235-69	RESISTOR, FILM, 750 OHM 5% 1/4W
G	R3259	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
G	R3260	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFG	R3500	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFG	R3501	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEFG	R3502M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R3503	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFG	R3504	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFG	R3505	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R3805M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R3806	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFG	R3807M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R3901	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
BCE	R4200	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ADFG	R4201M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
BCE	R4201M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
BCE	R4206M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
BCE	R4207M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
BCE	R4208	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
BCE	R4209M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BCE	R4210M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BCE	R4211M	063-11059-83A	RESISTOR, FILM, 27K OHM 5% 1/10W
BCE	R4212M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
BCE	R4213M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BCE	R4214M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
BCE	R4215M	063-11059-83A	RESISTOR, FILM, 27K OHM 5% 1/10W
BCE	R4216M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
BCE	R4217M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BCE	R4218M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
C	R4221M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
C	R4222M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
BCE	R4223M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
BCE	R4224M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
BCE	R4225M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
BCE	R4230M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
BCE	R4231M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
BCE	R4232M	063-11059-09A	RESISTOR, FILM, 22 OHM 5% 1/10W
BCE	R4250M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEG	R4982	063-10236-36	RESISTOR, FILM, 470K 5% 1/4W
ABCDEG	R4983	063-10236-44	RESISTOR, FILM, 1M OHM 5% 1/4W
ABCDEG	R4984	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEG	R4985M	063-11059-41A	RESISTOR, FILM, 470 OHM 5% 1/10W
ABCDEG	R4986M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEG	R4987	063-10235-84	RESISTOR, FILM, 3.3K OHM 5% 1/4 W
ABCDEG	R4989M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEG	R4990	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEG	R4991	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABCDEG	R4992	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEG	R4993	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEG	R4994M	063-11059-81A	RESISTOR, FILM, 22K OHM 5% 1/10W
ABCDEG	R4995M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEG	R4996	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W

RC	REF	PART#	DESCRIPTION
ABCDEG	R4997	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R5101M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R5102M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5103	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFG	R5105	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFG	R5106M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5107	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R5108M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R5109M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5110	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFG	R5112	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFG	R5113M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5114	063-10235-64	RESISTOR, FILM, 470 OHM 5% 1/4W
ABCDEFG	R5115	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R5116	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R5117M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R5118M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5119	063-10244-22	RESISTOR, FILM, 120K OHM 5% 1/2W
ABCDEFG	R5120	063-10235-52	RESISTOR, FILM, 150 OHM 5% 1/4W
ABCDEFG	R5121M	063-11059-17A	RESISTOR, FILM, 47 OHM 5% 1/10W
ABCDEFG	R5123	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R5124M	063-11059-71A	RESISTOR, FILM, 8.2K OHM 5% 1/10W
ABCDEFG	R5125	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R5126	063-10244-28	RESISTOR, FILM, 220K OHM 5% 1/2W
ABCDEFG	R5127	063-10243-72	RESISTOR, FILM, 1K OHM 5% 1/2W
ABCDEFG	R6001M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABDEFG	R6002M	063-11059-27A	RESISTOR, FILM, 120 OHM 5% 1/10W
C	R6002M	063-11059-31A	RESISTOR, FILM, 180 OHM 5% 1/10W
ABCDEFG	R6003M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R6004	063-10236-12	RESISTOR, FILM, 47K OHM 5% 1/4W
ABCDEFG	R6005M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6006M	063-11059-29A	RESISTOR, FILM, 150 OHM 5% 1/10W
ABCDEFG	R6007M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFG	R6008	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R6009M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R6011	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R6013	063-10235-48	RESISTOR, FILM, 100 OHM 5% 1/4W
ABCDEFG	R6014M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFG	R6015	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	R6016	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	R6026	063-10235-96	RESISTOR, FILM, 10K OHM 5% 1/4W
ABCDEFG	R6027	063-10235-80	RESISTOR, FILM, 2.2K OHM 5% 1/4W
ABCDEFG	R6030	091-02053	WIRE, SOLID, BARE, 22 GA COPPER
ABCDEFG	R6031M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
ABCDEFG	R6032M	063-11059-77A	RESISTOR, FILM, 15K OHM 5% 1/10W
ABCDEFG	R6033M	063-11059A	RESISTOR, FILM, 0 OHM 5% 1/10W
ABCDEFG	R6034M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
ABCDEFG	R6035M	063-11060-21A	RESISTOR, FILM, 1 MEG OHM 5% 1/10W
ABCDEFG	R6036M	063-11059-69A	RESISTOR, FILM, 6.8K OHM 5% 1/10W
ABCDEFG	R6037M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6038M	063-11059-61A	RESISTOR, FILM, 3.3K OHM 5% 1/10W
ABCDEFG	R6039M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6040M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R6041	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFG	R6042M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6043	063-10235-56	RESISTOR, FILM, 220 OHM 5% 1/4W
ABCDEFG	R6044M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6045M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6046M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6047M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6048M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6049M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6050M	063-11059-33A	RESISTOR, FILM, 220 OHM 5% 1/10W
ABCDEFG	R6051M	063-11059-25A	RESISTOR, FILM, 100 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.

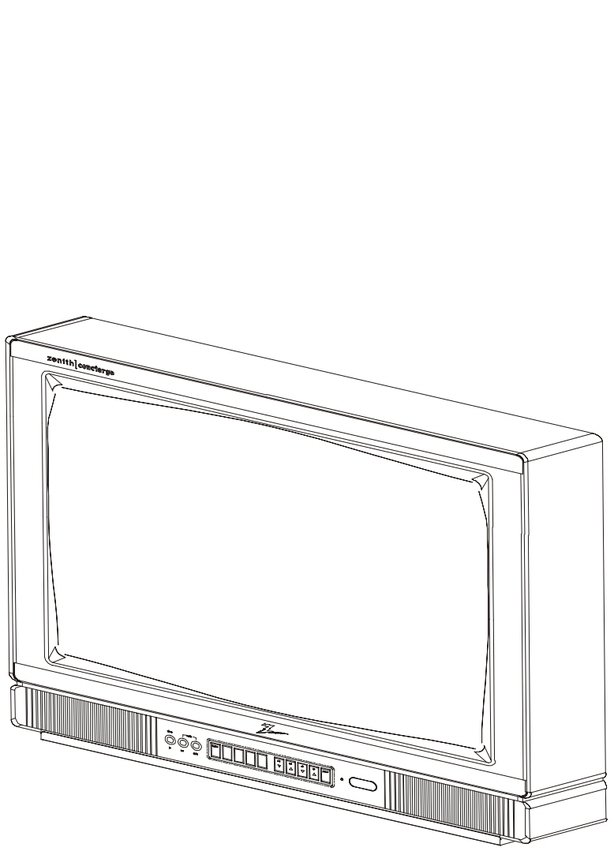
SEE IDENTIFIERS ON PAGE 4-17

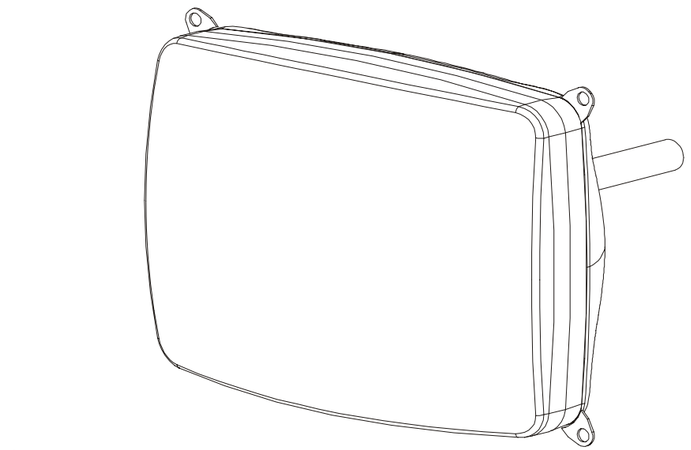
RC	REF	PART#	DESCRIPTION
ABCDEFG	R6052M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABCDEFG	R6053M	063-11059-53A	RESISTOR, FILM, 1.5K OHM 5% 1/10W
ABCDEFG	R6058M	063-11059-87A	RESISTOR, FILM, 39K OHM 5% 1/10W
ABCDEFG	R6059M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABCDEFG	R6060M	063-11059-65A	RESISTOR, FILM, 4.7K OHM 5% 1/10W
ABDEFG	R6061M	063-11059-54A	RESISTOR, FILM, 1.6K OHM 5% 1/10W
C	R6061M	063-11059-56A	RESISTOR, FILM, 2K OHM 5% 1/10W
ABCDEFG	R6069M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFG	R6070M	063-11060-13A	RESISTOR, FILM, 470K OHM 5% 1/10W
ABCDEFG	R6072M	063-11059-73A	RESISTOR, FILM, 10K OHM 5% 1/10W
ABCDEFG	R6080M	063-11060-18A	RESISTOR, FILM, 750K OHM 5% 1/10W
ABCDEFG	R6090M	063-11059-49A	RESISTOR, FILM, 1K OHM 5% 1/10W
BCE	R6099M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
DEF	RX2115	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
ABCG	RX2115	063-11110-06	RESISTOR, FILM, 1.8 OHM 5% 1/2W
DEF	RX2116	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
G	RX2116	063-11110-08	RESISTOR, FILM, 2.2 OHM 5% 1/2W
ABC	RX2116	063-11110-24	RESISTOR, FILM, 10 OHM 5% 1/2W
ABCDEFG	RX2117	063-10235-10	RESISTOR, FILM, 2.7 OHM 5% 1/4W
ABCDEFG	RX2124	063-11214-16	RESISTOR, FILM, 0.51 OHM 5% 1/2W
ABCDEFG	RX3008	063-10936-37	RESISTOR, FILM, 2.21K OHM 1% 1/4W
ABCDEFG	RX3009M	063-11059-97A	RESISTOR, FILM, 100K OHM 5% 1/10W
ABCDEFG	RX3010M	063-11059-25A	RESISTOR, FILM, 100 OHM 5% 1/10W
ABC	RX3013	063-10236-08	RESISTOR, FILM, 33K OHM 5% 1/4W
ABCDEFG	RX3016	063-10936-72	RESISTOR, FILM, 4.32K OHM 1% 1/4W
ABCDEFG	RX3022	063-10936-72	RESISTOR, FILM, 4.32K OHM 1% 1/4W
ABC	RX3207	063-10243-40	RESISTOR, FILM, 47 OHM 5% 1/2W
DEFG	RX3207	063-11087-28	RESISTOR, FILM, 15 OHM 5% 1/2W
ABCDEFG	RX3208	063-10565-10	RESISTOR, FILM, 2.7 OHM 5% 1/2W
ABCDEFG	RX3209	063-10460-44A	RESISTOR, WIREWOUND, 6.8 OHM 10% 10W
G	RX3210	063-10442-28A	RESISTOR, WIREWOUND, 1.5 OHM 5% 5W
DEF	RX3210	063-10442-37A	RESISTOR, WIREWOUND, 3.6 OHM 5% 5W
ABC	RX3210	063-11164-02B	RESISTOR, FILM, 1.2 OHM 5% 3W
ABCDEFG	RX3210A	086-00848	TERMINAL, PC WIRE GRIP
ABCDEFG	RX3211	063-10565	RESISTOR, FILM, 1 OHM 5% 1/2W
ABCDEFG	RX3212	063-10235-88	RESISTOR, FILM, 4.7K OHM 5% 1/4W
ABC	RX3214	063-10832-96B	RESISTOR, FILM, 10K OHM 5% 1W
DEFG	RX3214	063-11161-02B	RESISTOR, FILM, 18K OHM 5% 2W
ABCDEFG	RX3215	063-10832-69B	RESISTOR, FILM, 750 OHM 5% 1W
ABC	RX3216	063-11160-35B	RESISTOR, FILM, 30 OHM 5% 2W
DEFG	RX3216	063-11160-60B	RESISTOR, FILM, 330 OHM 5% 2W
G	RX3256	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	RX3400	063-11264-01	RESISTOR, CARBON COMPOSITION, 5.6M OHM 20% 1/2W
ABCDEFG	RX3401	063-10444-20A	RESISTOR, WIREWOUND, 0.68 OHM 10% 5W
C	RX3452	063-10559-08	RESISTOR, FILM, 2.2 OHM 5% 1/4W
ABCDEFG	RX3600	063-10244-14	RESISTOR, FILM, 56K OHM 5% 1/2W
ABCDEFG	RX3601	063-10244-14	RESISTOR, FILM, 56K OHM 5% 1/2W
ABCDEFG	RX3602	063-10235-68	RESISTOR, FILM, 680 OHM 5% 1/4W
ABCDEFG	RX3603	063-10235-84	RESISTOR, FILM, 3.3K OHM 5% 1/4 W
ABCDEFG	RX3604	063-10235-78	RESISTOR, FILM, 1.8K OHM 5% 1/4W
ABCDEFG	RX3605	063-11235-01	RESISTOR, FILM, 0.12 OHM 10% 3W
ABCDEFG	RX3606	063-10559-08	RESISTOR, FILM, 2.2 OHM 5% 1/4W
ABCDEFG	RX3700	063-10235-76	RESISTOR, FILM, 1.5K OHM 5% 1/4W
ABCDEFG	RX3701	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	RX3702	063-10236-32	RESISTOR, FILM, 330K OHM 5% 1/4W
ABCDEFG	RX3703	063-11285-07	RESISTOR, FILM, 174K OHM 0.1% 1/4W
ABCDEFG	RX3704	063-11283-45	RESISTOR, FILM, 3.57K OHM 0.1% 1/4W
ABCDEFG	RX3705	063-10235-72	RESISTOR, FILM, 1K OHM 5% 1/4W
ABCDEFG	RX3706	063-10235-98	RESISTOR, FILM, 12K OHM 5% 1/4W
ABCDEFG	RX3800	063-11160-24B	RESISTOR, FILM, 10 OHM 5% 2W
ABCDEFG	RX3804	063-10442-40A	RESISTOR, WIREWOUND, 4.7 OHM 5% 5W
C	RX4000	063-11110-04	RESISTOR, FILM, 1.5 OHM 5% 1/2W
C	RX4001	063-11264-02	RESISTOR, CARBON COMPOSITION, 10M OHM 20% 1/2W
C	RX4002	063-10559-08	RESISTOR, FILM, 2.2 OHM 5% 1/4W
C	RX4005	063-10235-58	RESISTOR, FILM, 270 OHM 5% 1/4W
ABCDEFG	RX5104	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
ABCDEFG	RX5111	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
ABCDEFG	RX5122	063-10836-98B	RESISTOR, FILM, 12K OHM 5% 2W
EFG	THX3901	063-10710A	RESISTOR, THERMISTOR
ABC	THX3901	063-11119	RESISTOR, THERMISTOR, DEGAUSSER
ABCDEFG	TU6000	175-02770	TUNER, VARACTOR, 181 CHANNEL, SINGLE IC, WORLD STANDARD
C	TX0900	095-04454	TRANSFORMER, AUDIO ISOLATION
DEFG	TX3204	095-04372-01	SWEEP XFMR, COLOR FINAL, MINI
ABC	TX3204	095-04372-03	SWEEP XFMR, COLOR, FINAL, MINI
ABCDEFG	TX3205	095-04477-01	TRANSFORMER, HORIZONTAL DRIVER
B	TX3401	095-04577	TRANSFORMER, CHOPPER
ABCDFG	TX3601	095-04584	TRANSFORMER, CHOPPER
C	TX4001	095-04581	TRANSFORMER, ISOLATION
ABCDEFG	U1200	224-00160	FILTER, SURFACE ACOUSTIC WAVE
ABCDEFG	U1201	224-00139-01A	FILTER, 4.5 MHZ CERAMIC BANDPASS
ABCDEFG	U1202	224-00023A	CERAMIC FILTER, 4.5 MHZ TRAP
ABDEFG	ZD2901	103-00279-18A	DIODE, ZENER, 9.1V 0.5W
ABCDEFG	ZD6001	103-00279-36A	DIODE, ZENER, 33V 0.5W
ABCDEFG	ZDX3004	103-00472A	DIODE, ZENER, 12V 0.5W
ABCDEFG	ZDX3701	103-00279-18A	DIODE, ZENER, 9.1V 0.5W
C	ZDX4001	103-00279-21A	DIODE, ZENER, 12V 0.5W

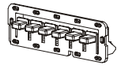
Critical safety components are identified by the letter "X" in their component designators and are shaded. Replace only with part numbers specified.

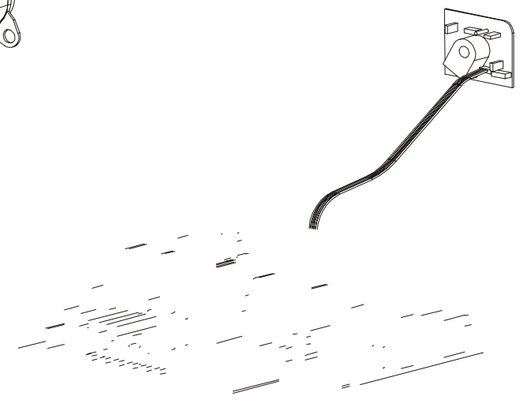
20/25V Table Top Set Exploded View

REF	DESCRIPTION	H2034Y	H2035DT	H2534Y	H2535DT	H2539Y
1	FRONT CABINET	014-12056-56	014-12056-55	014-12142-61	014-12142-62	014-12142-61
2	SPEAKER	049-01369-02	049-01369-02	049-01368-03	049-01368-03	049-01368-03
3	KEYBOARD ASSEMBLY	F-53386	F-53386	F-53386	F-53386	F-53386
4	IR LENS	192-00889	192-00889	192-00889	192-00889	192-00889
5	CRT ASSEMBLY	A-186936-03	A-186936-03	100-00823-06	100-00823-06	100-00823-06
6	YOKE			095-04456-05	095-04456-05	095-04456-05
7	MAIN MODULE	COMPONENT LEVEL REPAIR	COMPONENT LEVEL REPAIR	COMPONENT LEVEL REPAIR	COMPONENT LEVEL REPAIR	COMPONENT LEVEL REPAIR
8	REAR CABINET	014-12048-06	014-12048-06	014-12181-08	014-12181-08	014-12181-08
9	REMOTE CONTROL	124-00213-02	124-00213-03	124-00213-02	124-00213-03	124-00213-02



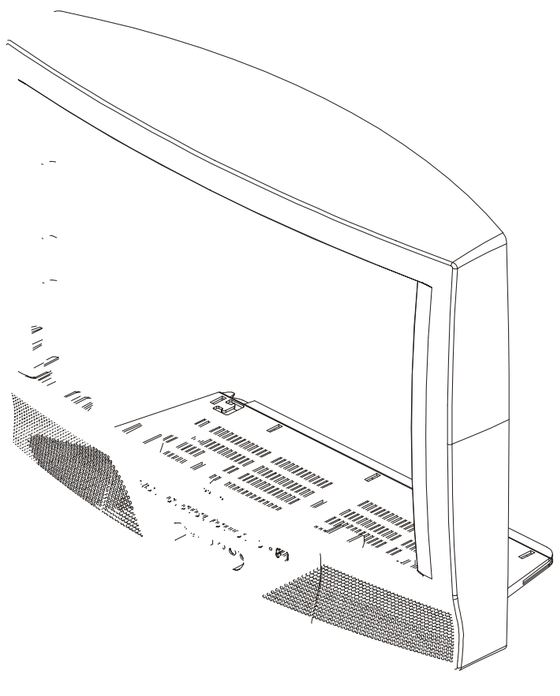


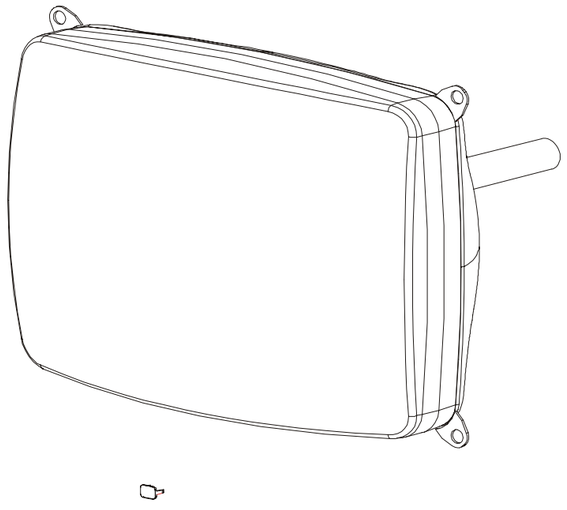


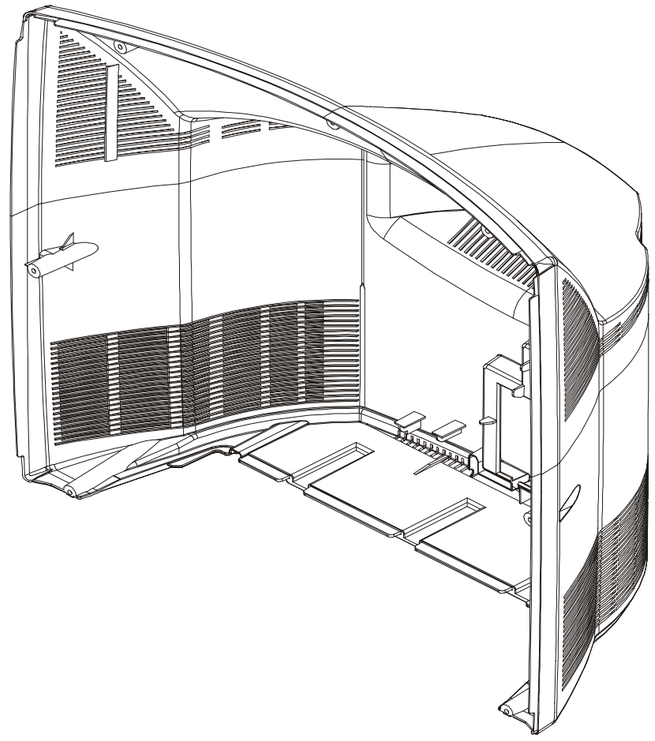


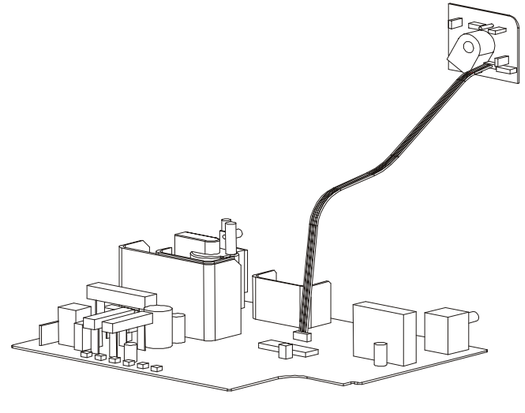
27V Table Top Set Exploded View

REF	DESCRIPTION	H2735DT
1	FRONT CABINET	014-12336
2	SPEAKER	049-01368-03
3	KEYBOARD ASSEMBLY	F-53646
4	IR LENS	192-00916
5	CRT & YOKE ASSEMBLY	A-18378
6	MAIN MODULE	COMPONENT LEVEL REPAIR
7	REAR CABINET	014-12254-02
8	REMOTE CONTROL	124-00213-02



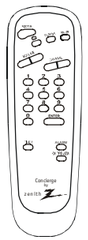






36V Table Top Set Exploded View

REF	DESCRIPTION	H3235DT	H3635DT
1	FRONT CABINET	014-12284-22	014-12269-10
2	SPEAKER	049-01368-03	049-01368-03
3	KEYBOARD ASSEMBLY	F-53707	F-53707
4	IR LENS	192-00916	192-00916
5	CRT	A81AGZ50X	A-18483
6	YOKE	095-04208-01	
7	MAIN MODULE	009-02087	009-02088
8	REAR CABINET	014-12285-07	014-12270-14
9	REMOTE CONTROL	124-00213-02	124-00213-02



SC652
124-00213-02

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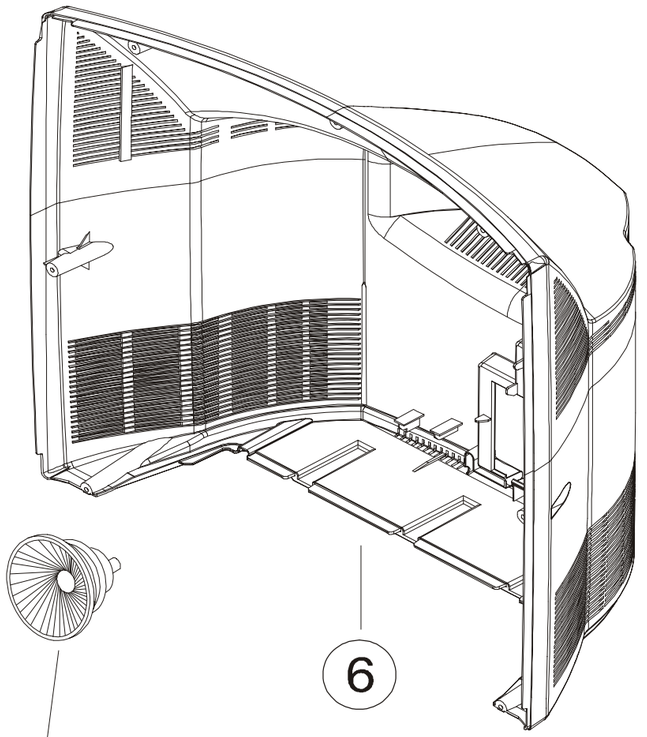

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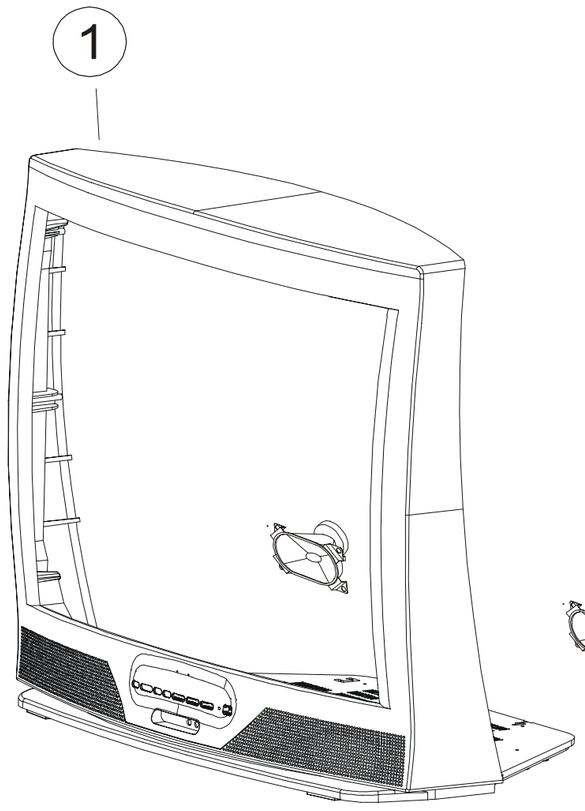

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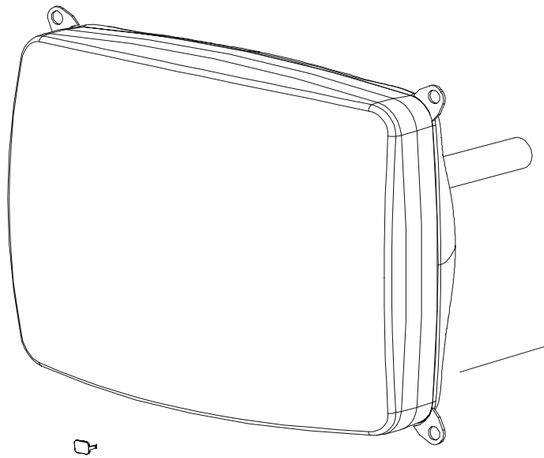

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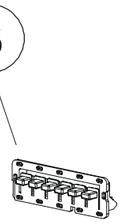

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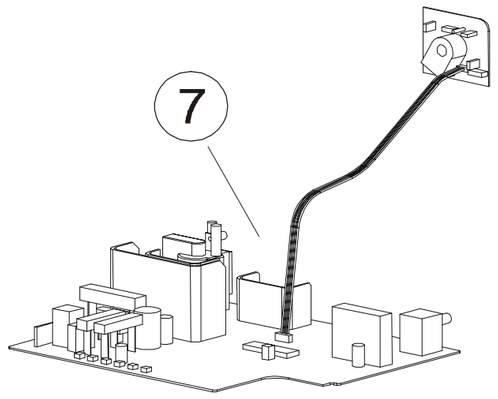


7

HealthView Interconnect Diagram

CH COMMERCIAL
MAIN MODULE
20V MONAURAL

CAPTIONS | ◄ADJUST► | SELECT | MENU | ◄VOLUME► | ◄CHANNEL► | OFF/ON | IR RCVR

POWER ON INDICATOR LED

9V SW GROUND
KEY 2
KEY 1
KEY DATA
+5V SIDE Y

SEE HOSPITAL JACKPACK KEYBOARD LOOP PROVISION

KEYBOARD VARIES BY MODEL SOME HAVE FEWER KEYS AND/OR EXTERNAL IP RECEIVER
SEE MODEL BOM FOR BOARD APPLICATION SPECIFICS

1VGA10
58-542-12
PROV TV1
78-3553 CON1
78-3553 1E11
78-3553 CON2
78-3553 2E6
58-542-1
2VGA8
INTERFACE CARD
(EDGE CONNECTOR)

10 +12V
9 PS_GND
8 MPI_DATA_IN
7 MPI_DATA_OUT
6 SPI_DATA_OUT
5 SPI_DATA_IN
4 SPI_CLOCK
3 DATA GND
2 +5VBA
1 IR_DATA_OUT
1 BUFFERED_IR_DATA_OUT
3 PTY_SELECT
4 BUFFERED_MPI_DATA_IN
5 DATA_GND
6 BUFFERED_MPI_DATA_OUT

10VGA1
IC6000
FX3403
TX3401
FX3401
3R8
EX3401
ICX3412
AC LINE
AC LINE
HEALTHVIEW SERIES
3TB
ICX3401
4G9
DATA
CLOCK
CONTROL
+5V STOEY
GROUND
5C2
+9V
GND
R OUT
G OUT
B OUT
ICX2200
HORIZONTAL
TU6000
TUNER
GROUND
HOSPITAL GROUND
RF INPUT
TERMINAL 086-01098
3RD WIRE GROUND
FOR HOSPITAL AND
EDUCATIONAL MARKETS
QX3203
QX3251
HORIZONTAL
3Y3
HORIZONTAL YOKE HI
HORIZONTAL YOKE LOW
VERTICAL YOKE LOW
VERTICAL YOKE HI
DAG GROUND
2F5
+215V
GROUND
FILAMENT
TX3204
FOCUS
G2
IC2100
9N4
SF2
+215V
GROUND
FILAMENT
Q5101
Q5102
Q5103
DAG
DAG1
FOCUS
G2
DOUBLE
INSULATION
AREA
LEFT INT SPKR HI
LEFT INT SPKR LOW
SPKR
LEFT OR MONO
SPEAKER

11E1
6E2
MPI
MPI

RF OUT
G2
DCUS
ANTENNA CABLE
SUPER PORT

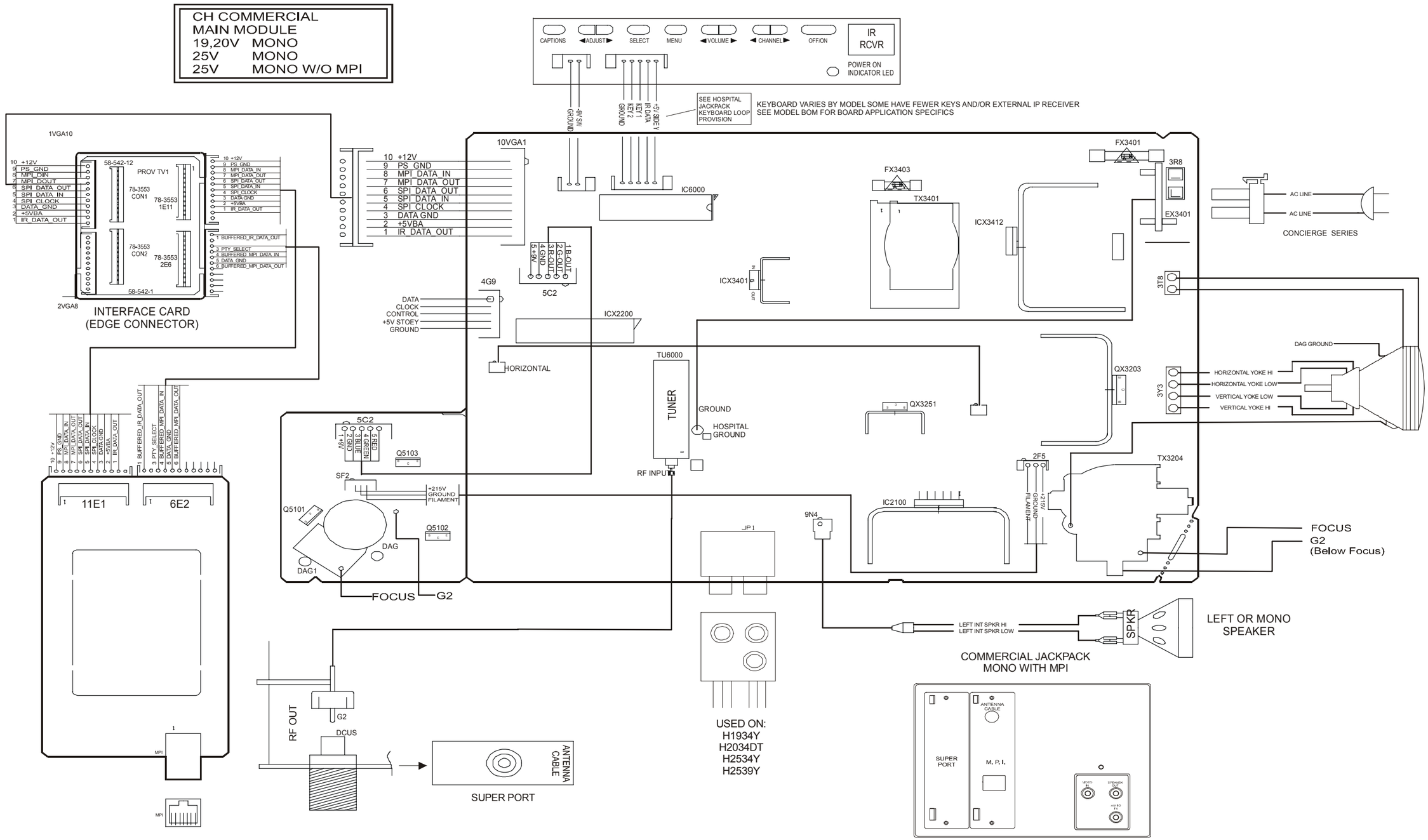
PATIENT INTERFACE
DOUBLE ISOLATED
204-030094
PILLOW SPEAKER

Just on H2050DT
1. On/Off
2. Not Connected
3. Data/Channel Up
4. Common
5. Audio
6. Channel Down

SUPER PORT
M.P.I.
ANTENNA CABLE
PILLOW SPEAKER
TV SPEAKER
PILLOW SPEAKER

Mono Concierge Interconnect Diagram

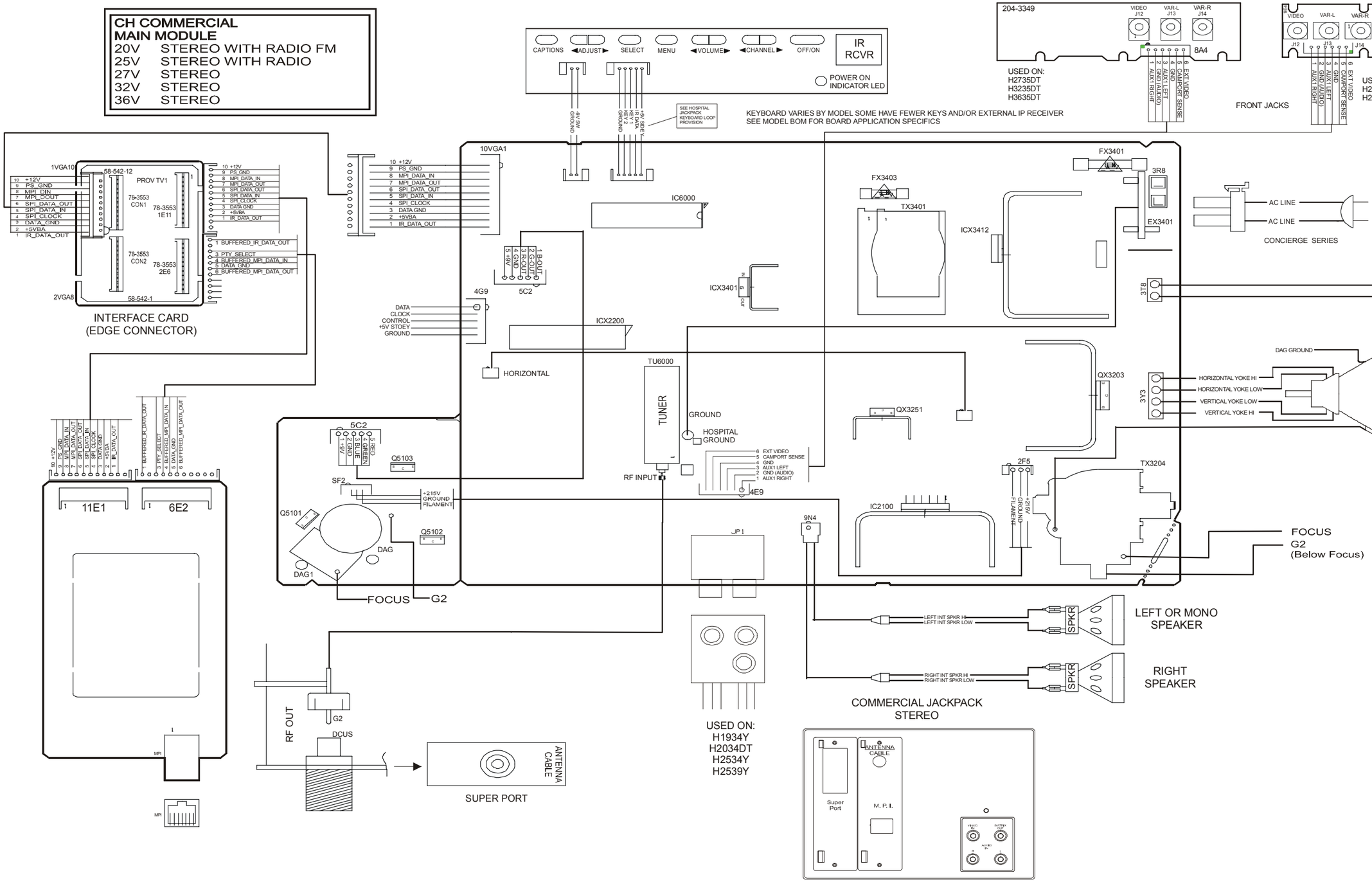
CH COMMERCIAL
MAIN MODULE
19,20V MONO
25V MONO
25V MONO W/O MPI

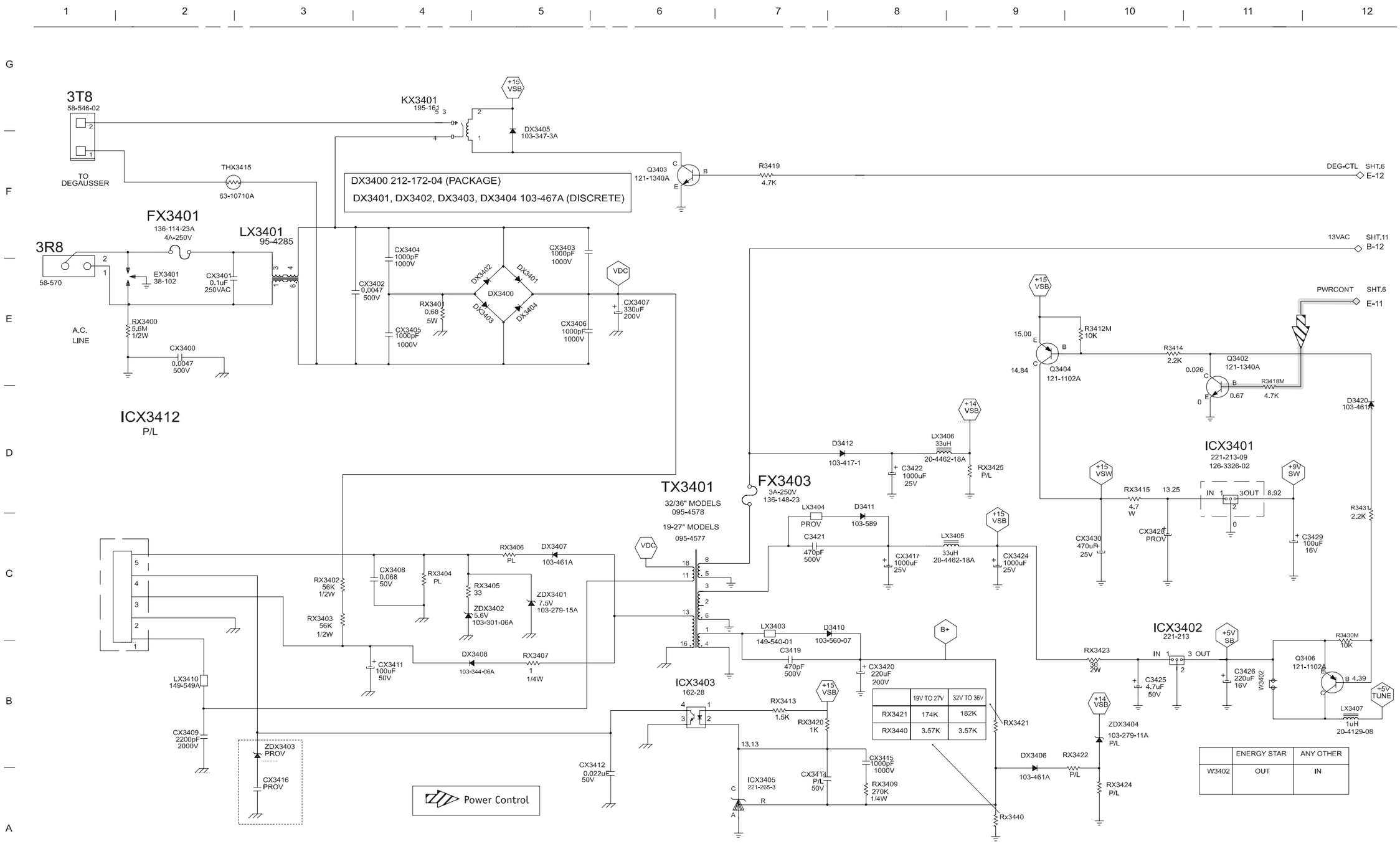


CRITICAL SAFETY COMPONENTS ARE IDENTIFIED BY THE LETTER "X" IN THEIR COMPONENT DESIGNATORS. REPLACE ONLY WITH PART NUMBERS SPECIFIED.

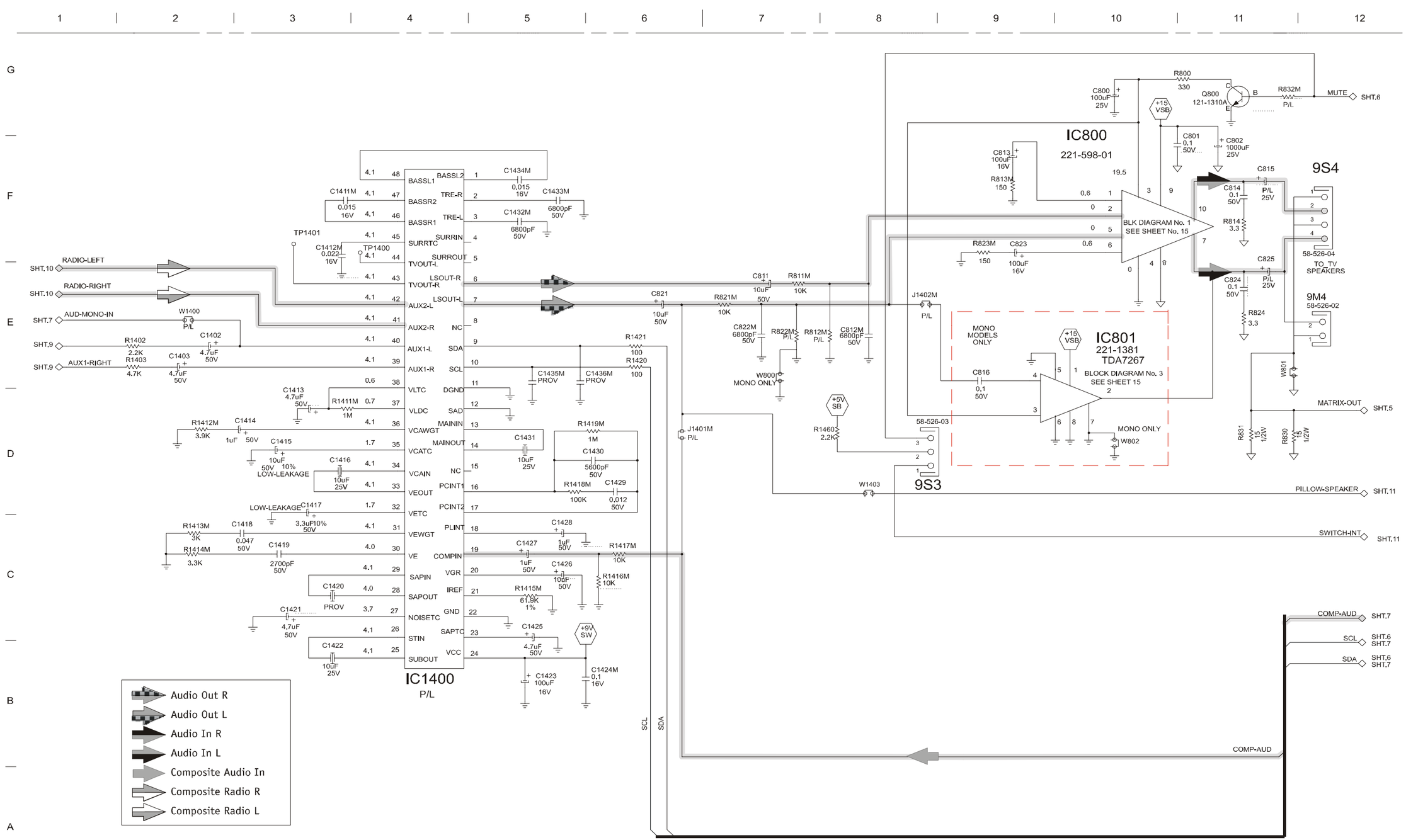
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

Stereo Concierge Interconnect Diagram




3T8
58-546-02
TO DEGAUSSER
THX3415
63-10710A
KX3401
195-161
DX3405
103-347-3A
+15 VSB
DX3400 212-172-04 (PACKAGE)
DX3401, DX3402, DX3403, DX3404 103-467A (DISCRETE)
Q3403
121-1340A
R3419
4.7K
DEG-CTL SHT.6 E-12
FX3401
136-114-23A
4A-250V
3R8
58-570
EX3401
38-102
LX3401
95-4285
CX3401
0.1uF
250VAC
RX3400
5.6M
1/2W
A.C. LINE
CX3400
0.0047
500V
CX3402
0.0047
500V
CX3404
1000pF
1000V
CX3405
1000pF
1000V
RX3401
0.68
5W
DX3400
DX3401
DX3402
DX3403
DX3404
CX3403
1000pF
1000V
CX3406
1000pF
1000V
VDC
CX3407
330uF
200V
13VAC SHT.11 B-12
ICX3412
P/L
TX3401
32/36" MODELS
095-4578
19-27" MODELS
095-4577
FX3403
3A-250V
136-148-23
LX3404
PROV
D3411
103-589
C3421
470pF
500V
CX3417
1000uF
25V
LX3405
33uH
20-4462-18A
CX3424
1000uF
25V
D3412
103-417-1
C3422
1000uF
25V
RX3425
P/L
LX3406
33uH
20-4462-18A
+14 VSB
+15 VSB
+15 VSW
+9V SW
ICX3401
221-213-09
126-3326-02
RX3415
4.7
W
13.25
IN 1 3OUT 8.92
CX3430
470uF
25V
CX3428
PROV
C3429
100uF
16V
R3431
2.2K
PWRCONT SHT.6 E-11
R3412M
10K
15.00
14.84
Q3404
121-1102A
R3414
2.2K
Q3402
121-1340A
0.026
0.67
R3418M
4.7K
D3420
103-461A
RX3406
PL
DX3407
103-461A
RX3402
56K
1/2W
RX3403
56K
1/2W
CX3408
0.068
50V
RX3404
PL
RX3405
33
ZDX3402
5.6V
103-301-06A
ZDX3401
7.5V
103-279-15A
CX3411
100uF
50V
DX3408
103-344-06A
RX3407
1
1/4W
LX3410
149-549A
CX3409
2200pF
2000V
ZDX3403
PROV
CX3416
PROV
LX3403
149-540-01
D3410
103-560-07
C3419
470pF
500V
CX3420
220uF
200V
B+
ICX3403
162-28
RX3413
1.5K
RX3420
1K
CX3412
0.022uF
50V
ICX3405
221-265-3
CX3414
P/L
50V
CX3415
1000pF
1000V
RX3409
270K
1/4W
13.13
Power Control
RX3421
Rx3440
DX3406
103-461A
RX3422
P/L
RX3424
P/L
ZDX3404
103-279-11A
P/L
+14 VSB
ICX3402
221-213
RX3423
30
2W
C3425
4.7uF
50V
+5V SB
C3426
220uF
16V
W3402
Q3406
121-1102A
B 4.39
R3430M
10K
+5V TUNE
LX3407
1uH
20-4129-08
D3421
D3422
D3423
D3424
D3425
D3426
D3427
D3428
D3429
D3430
D3431
D3432
D3433
D3434
D3435
D3436
D3437
D3438
D3439
D3440
D3441
D3442
D3443
D3444
D3445
D3446
D3447
D3448
D3449
D3450
D3451
D3452
D3453
D3454
D3455
D3456
D3457
D3458
D3459
D3460

Audio Processor



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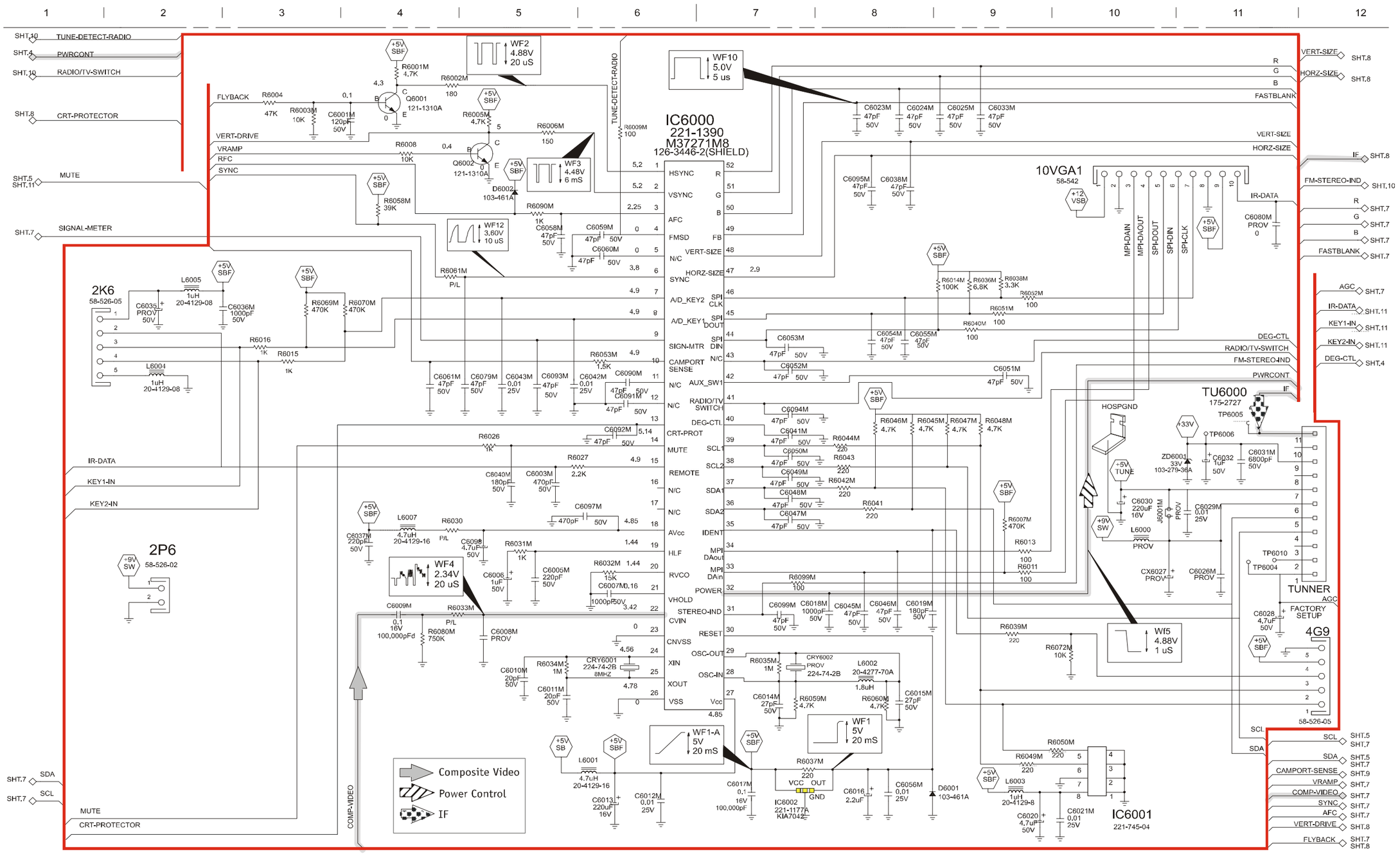
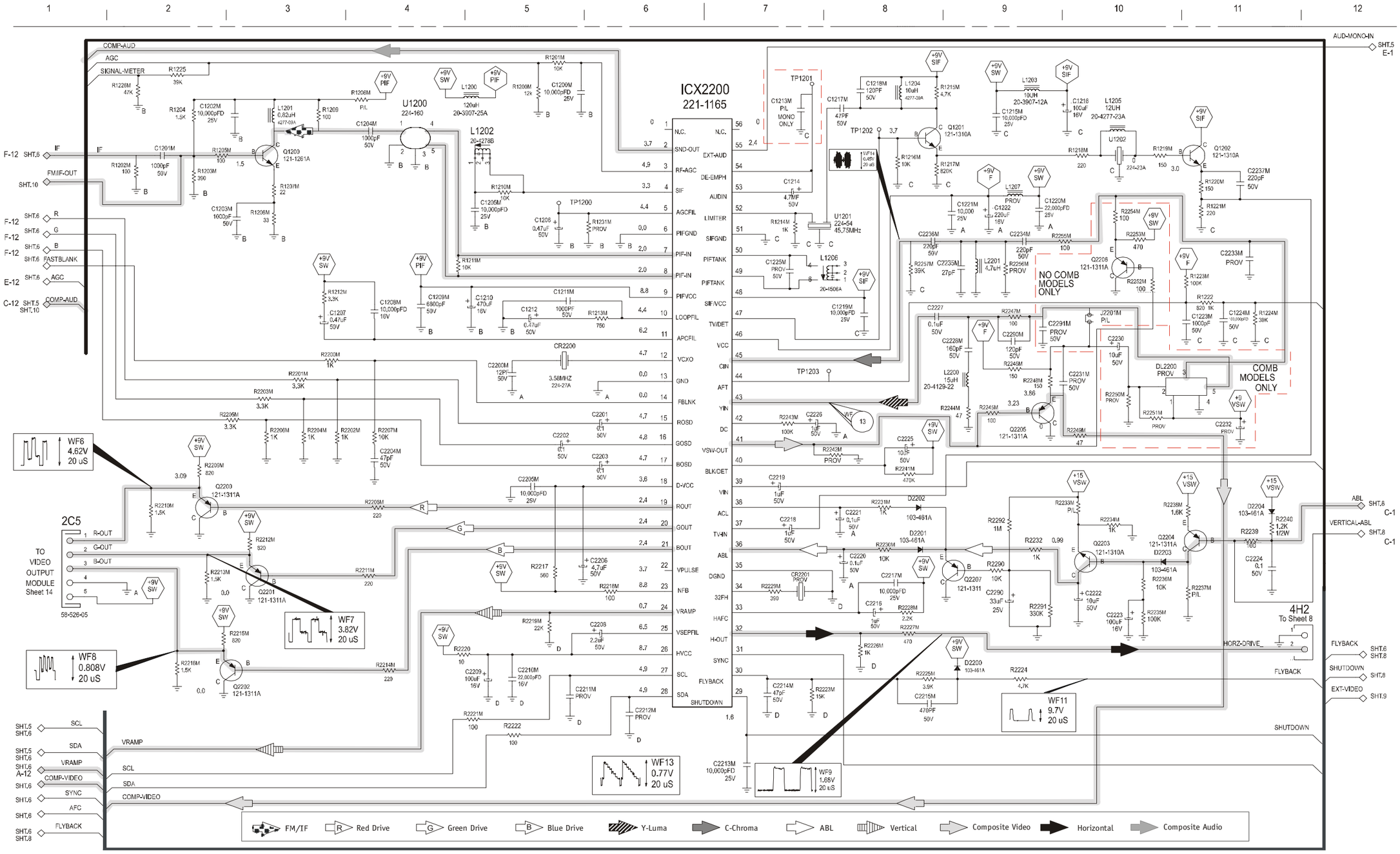
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

Main Microprocessor



Video Processor



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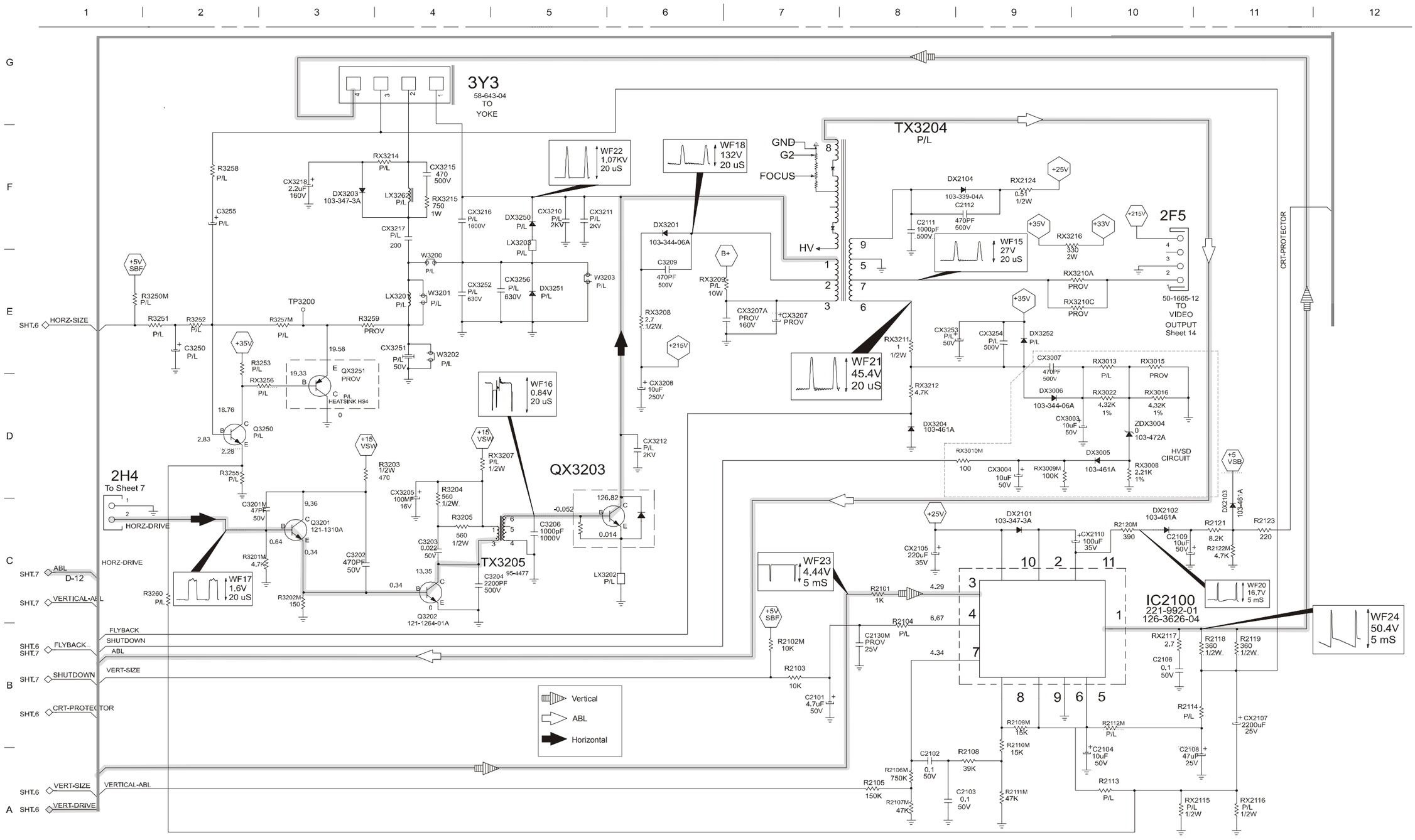
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT



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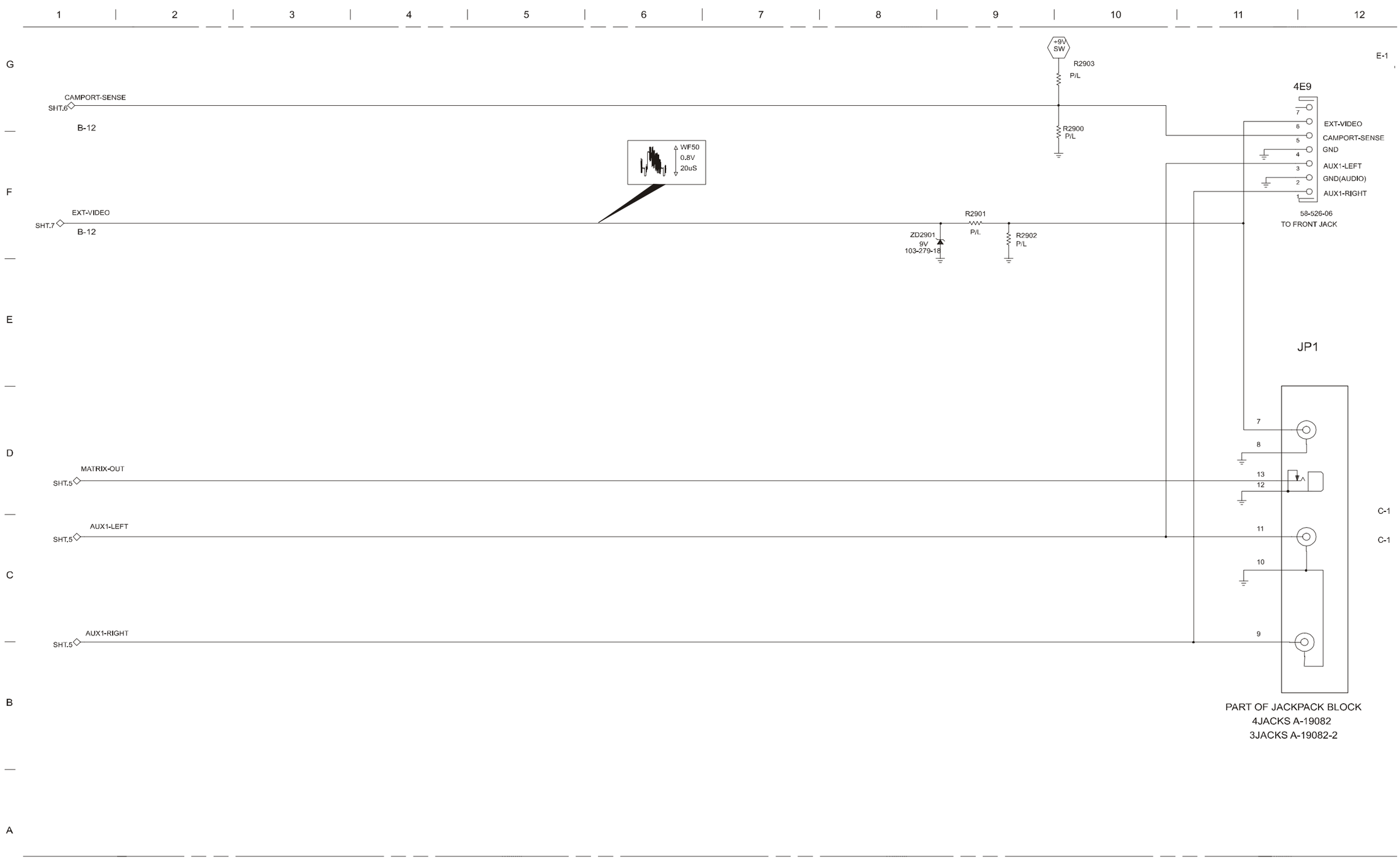
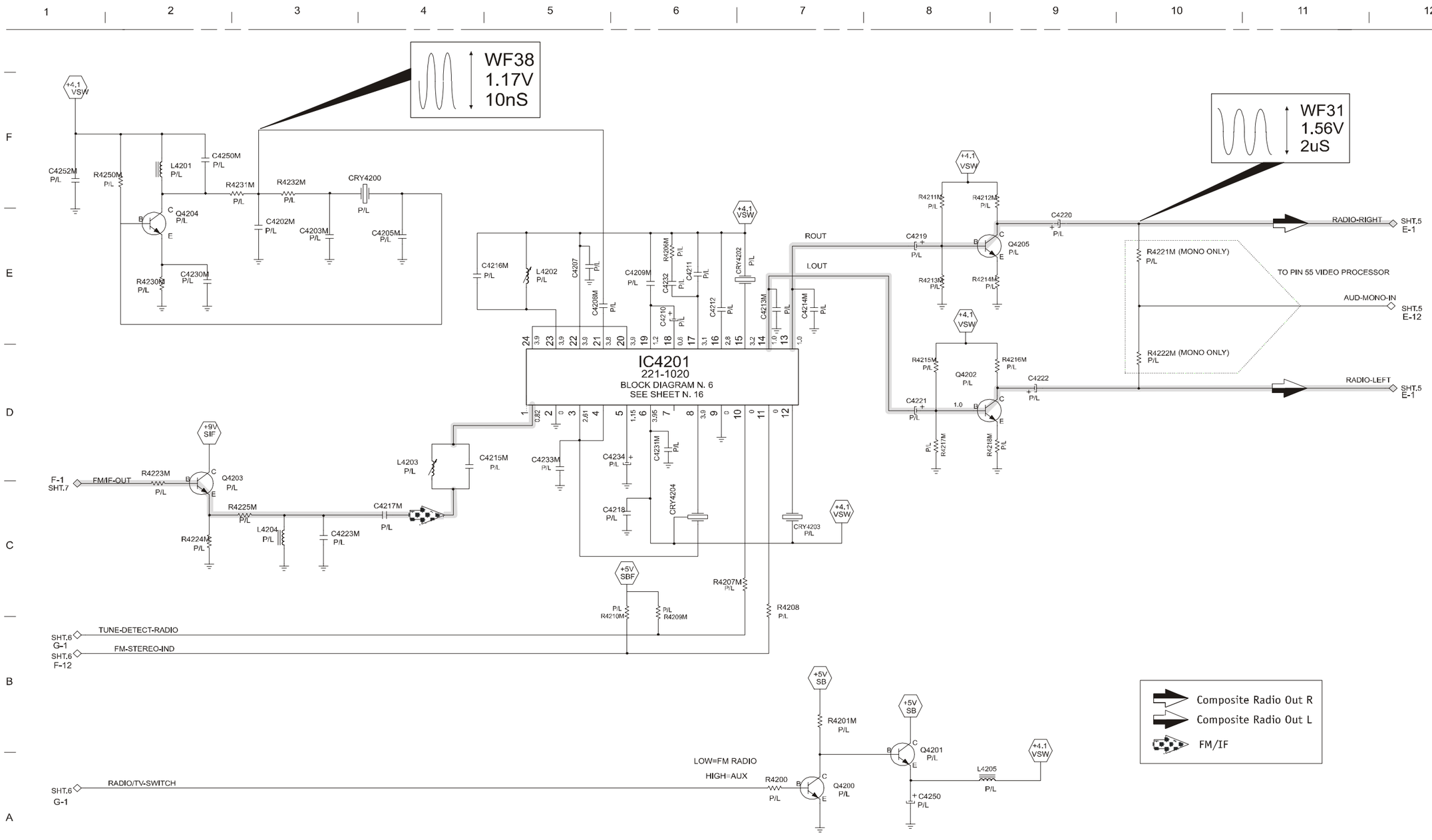
Jack and Switch Circuit





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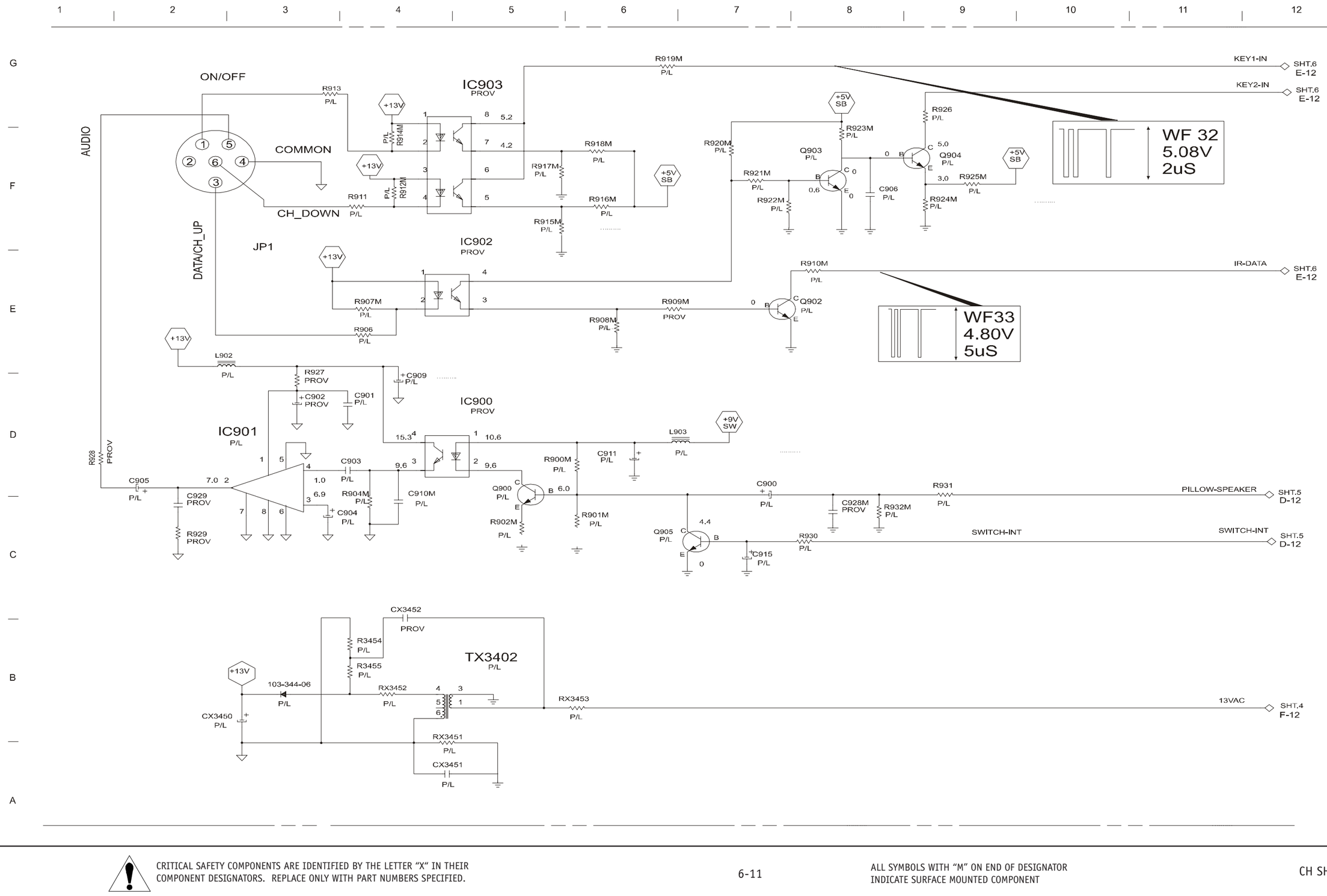
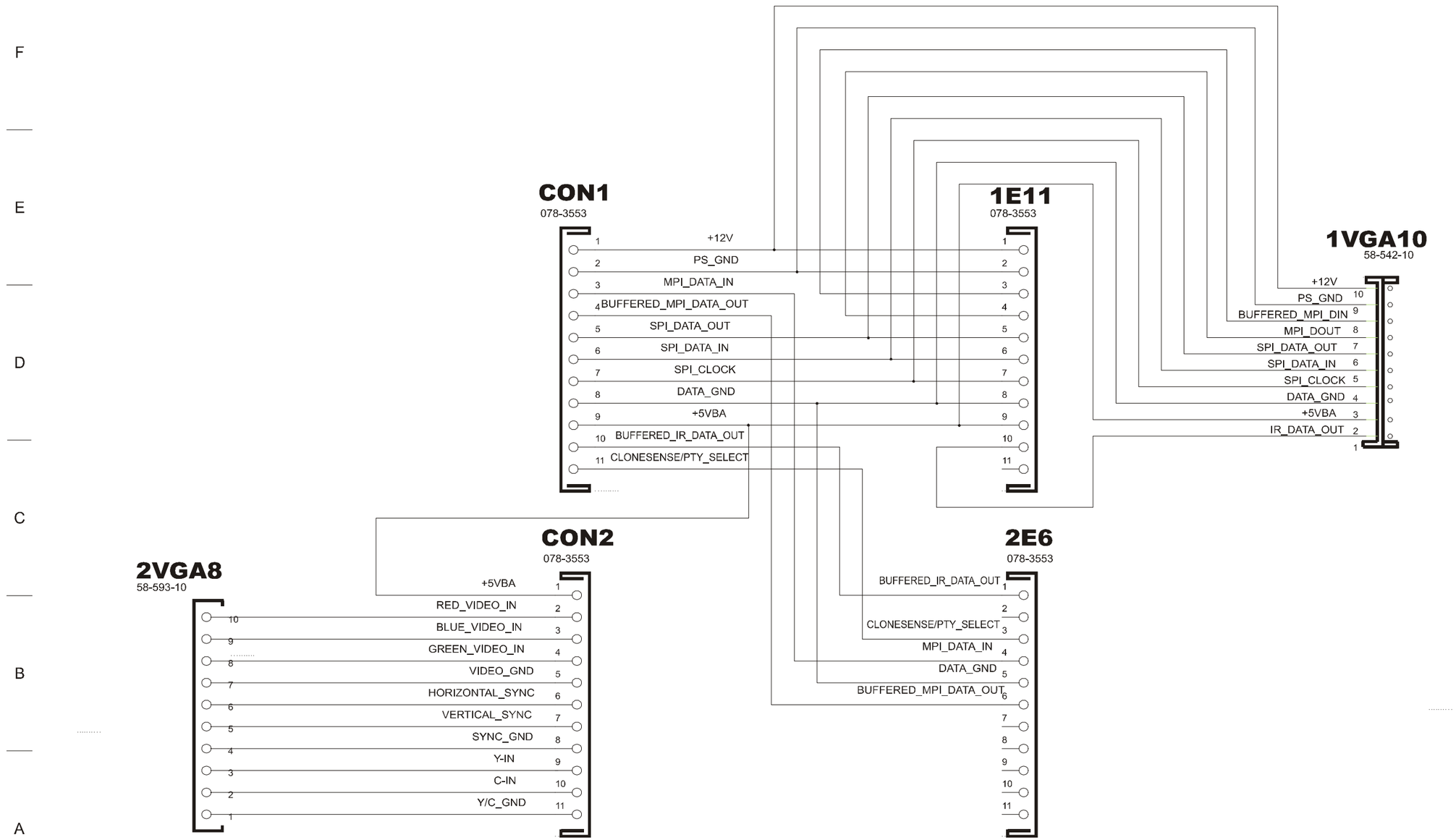
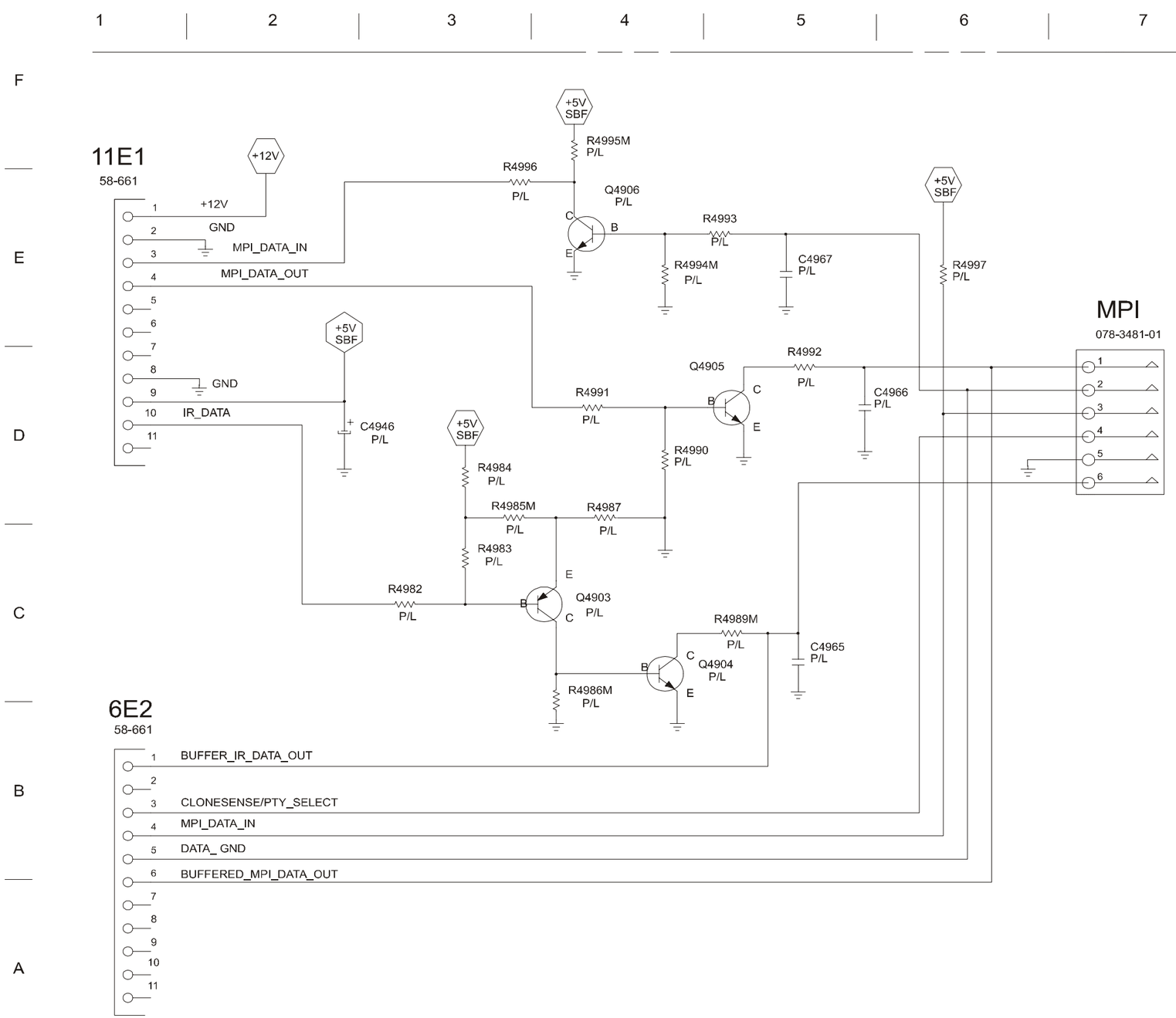
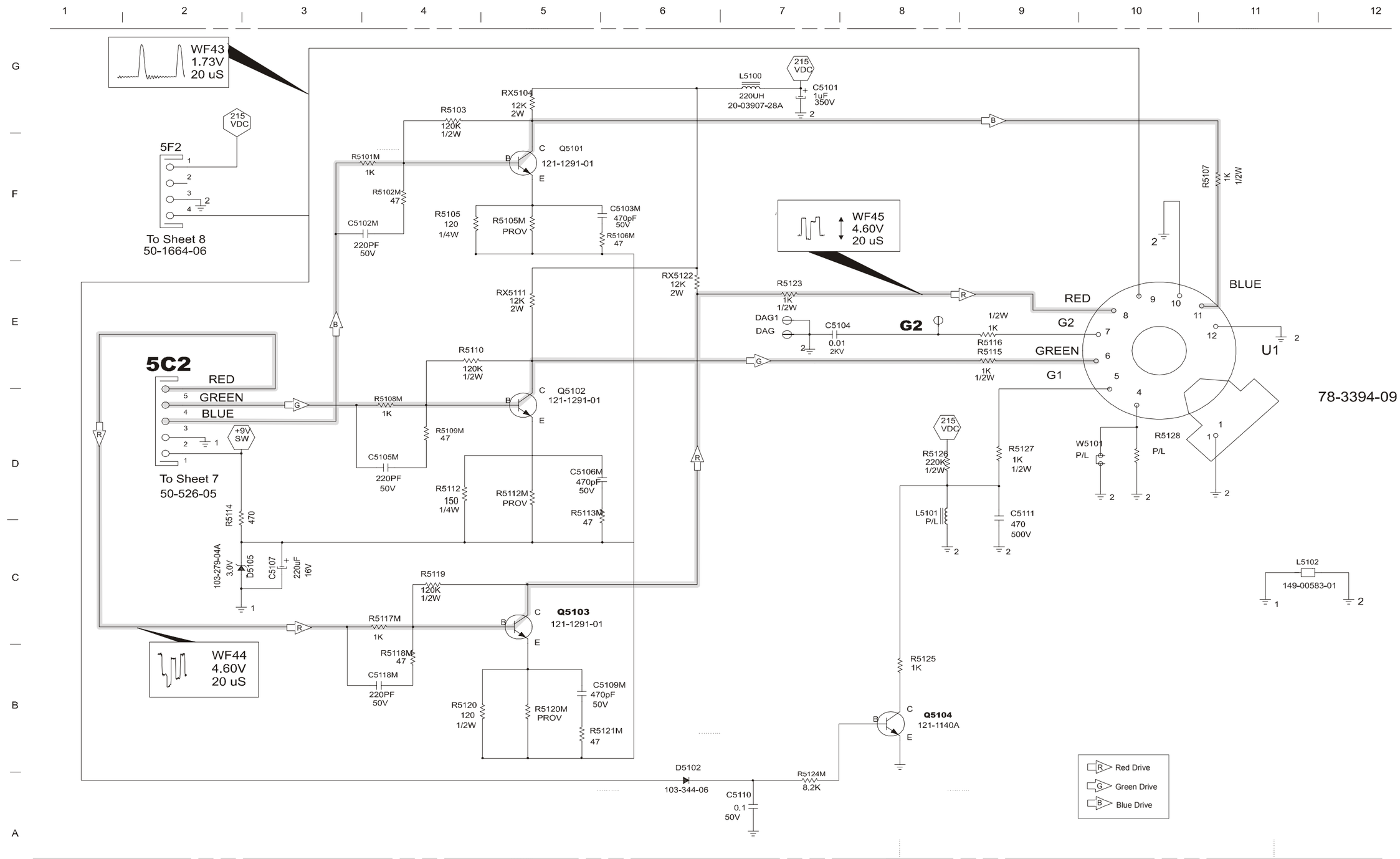
ALL SYMBOLS WITH "M" ON END OF DESIGNATOR INDICATE SURFACE MOUNTED COMPONENT

Pillow Speaker



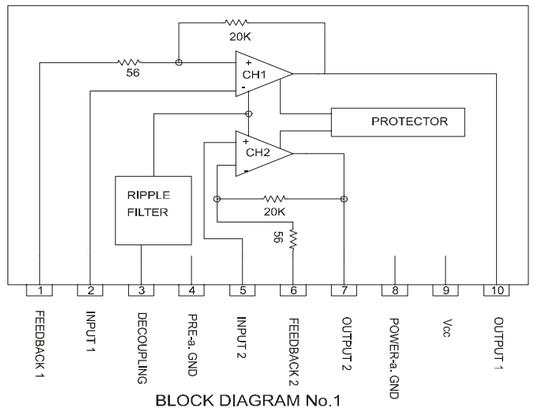

1
2
3
4
5
6
7
8
9
F
E
D
C
B
A
CON1
078-3553
1 +12V
2 PS_GND
3 MPI_DATA_IN
4 BUFFERED_MPI_DATA_OUT
5 SPI_DATA_OUT
6 SPI_DATA_IN
7 SPI_CLOCK
8 DATA_GND
9 +5VBA
10 BUFFERED_IR_DATA_OUT
11 CLONESENSE/PTY_SELECT
1E11
078-3553
1
2
3
4
5
6
7
8
9
10
11
1VGA10
58-542-10
+12V 10
PS_GND 9
BUFFERED_MPI_DIN 8
MPI_DOUT 7
SPI_DATA_OUT 6
SPI_DATA_IN 5
SPI_CLOCK 4
DATA_GND 3
+5VBA 2
IR_DATA_OUT 1
CON2
078-3553
+5VBA 1
RED_VIDEO_IN 2
BLUE_VIDEO_IN 3
GREEN_VIDEO_IN 4
VIDEO_GND 5
HORIZONTAL_SYNC 6
VERTICAL_SYNC 7
SYNC_GND 8
Y-IN 9
C-IN 10
Y/C_GND 11
2VGA8
58-593-10
10
9
8
7
6
5
4
3
2
1
2E6
078-3553
BUFFERED_IR_DATA_OUT 1
2
CLONESENSE/PTY_SELECT 3
MPI_DATA_IN 4
DATA_GND 5
BUFFERED_MPI_DATA_OUT 6
7
8
9
10
11


1
2
3
4
5
6
7
F
E
D
C
B
A
11E1
58-661
+12V
GND
MPI_DATA_IN
MPI_DATA_OUT
GND
IR_DATA
+5V SBF
R4995M P/L
R4996 P/L
Q4906 P/L
R4993 P/L
R4994M P/L
C4967 P/L
R4997 P/L
C4946 P/L
R4991 P/L
Q4905
R4992 P/L
C4966 P/L
R4990 P/L
R4984 P/L
R4985M P/L
R4987 P/L
R4983 P/L
R4982 P/L
Q4903 P/L
R4989M P/L
C4965 P/L
Q4904 P/L
R4986M P/L
MPI
078-3481-01
6E2
58-661
BUFFER_IR_DATA_OUT
CLONESENSE/PTY_SELECT
MPI_DATA_IN
DATA_ GND
BUFFERED_MPI_DATA_OUT


WF43
1.73V
20 uS
215 VDC
5F2
To Sheet 8
50-1664-06
L5100
220UH
20-03907-28A
C5101
1uF
350V
RX5104
12K
2W
R5103
120K
1/2W
R5101M
1K
C Q5101
121-1291-01
E
R5102M
47
C5102M
220PF
50V
R5105
120
1/4W
R5105M
PROV
C5103M
470pF
50V
R5106M
47
R5107
1K
1/2W
WF45
4.60V
20 uS
RX5122
12K
2W
R5123
1K
1/2W
RX5111
12K
2W
DAG1
DAG
C5104
0.01
2KV
G2
1/2W
1K
R5116
R5115
1K
1/2W
RED
G2
GREEN
G1
BLUE
U1
5C2
RED
GREEN
BLUE
+9V
SW
To Sheet 7
50-526-05
R5110
120K
1/2W
R5108M
1K
C Q5102
121-1291-01
E
R5109M
47
C5105M
220PF
50V
R5112
150
1/4W
R5112M
PROV
C5106M
470pF
50V
R5113M
47
R5114
470
103-279-04A
3.0V
D5105
C5107
220uF
16V
R5119
120K
1/2W
C Q5103
121-1291-01
E
R5117M
1K
R5118M
47
C5118M
220PF
50V
R5120
120
1/2W
R5120M
PROV
C5109M
470pF
50V
R5121M
47
WF44
4.60V
20 uS
215 VDC
R5126
220K
1/2W
R5127
1K
1/2W
L5101
P/L
C5111
470
500V
W5101
P/L
R5128
P/L
L5102
149-00583-01
R5125
1K
C Q5104
121-1140A
E
D5102
103-344-06
R5124M
8.2K
C5110
0.1
50V
Red Drive
Green Drive
Blue Drive

78-3394-09

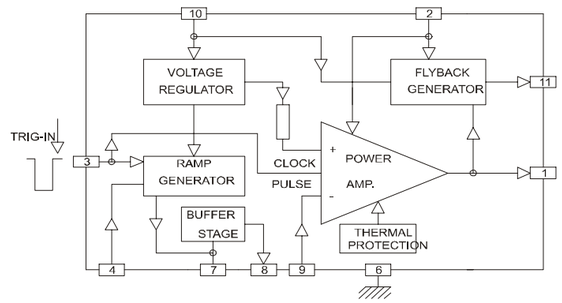
Block Diagrams



BLOCK DIAGRAM No.1

IC800

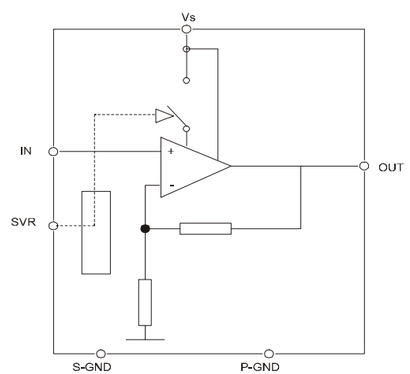
221-598-01



BLOCK DIAGRAM No. 2

IC2100

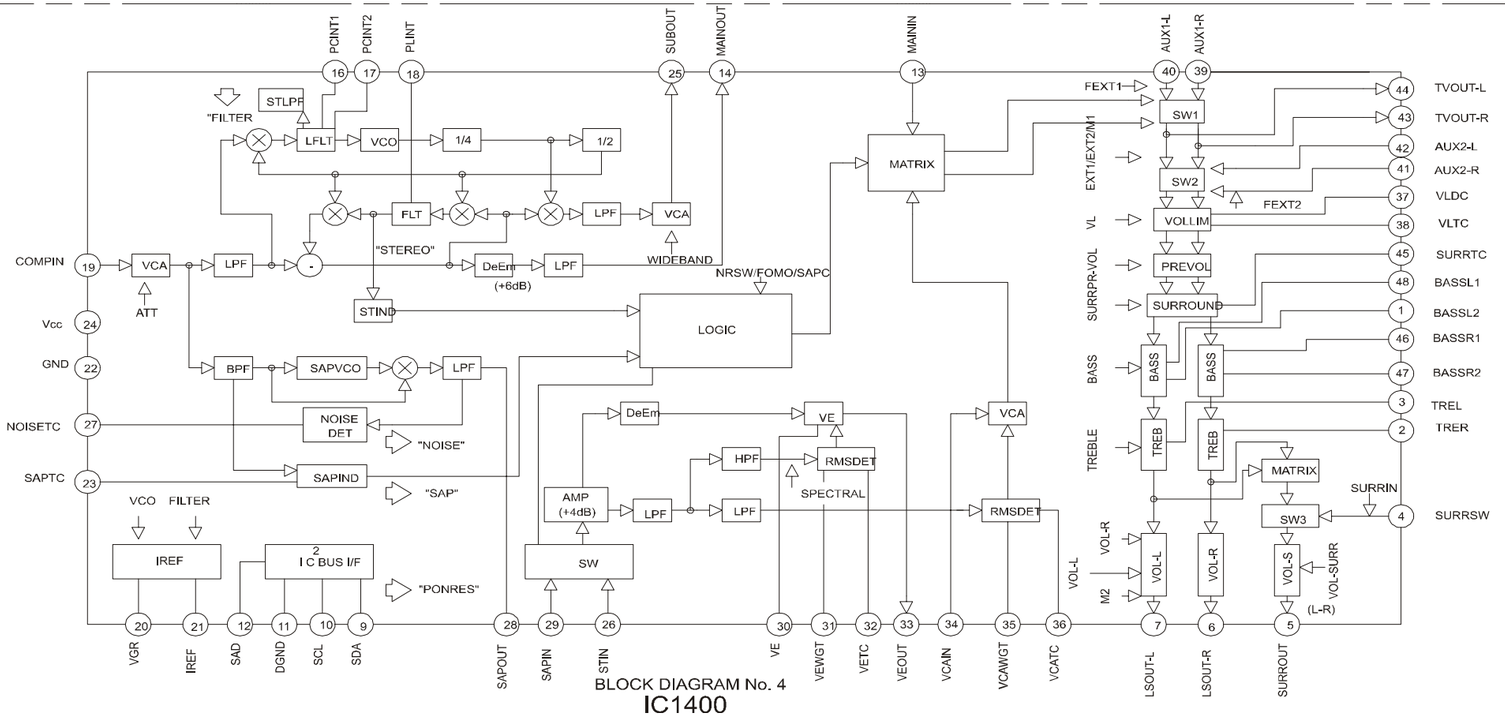
221-992-01



IC901/IC801

BLOCK DIAGRAM No. 3

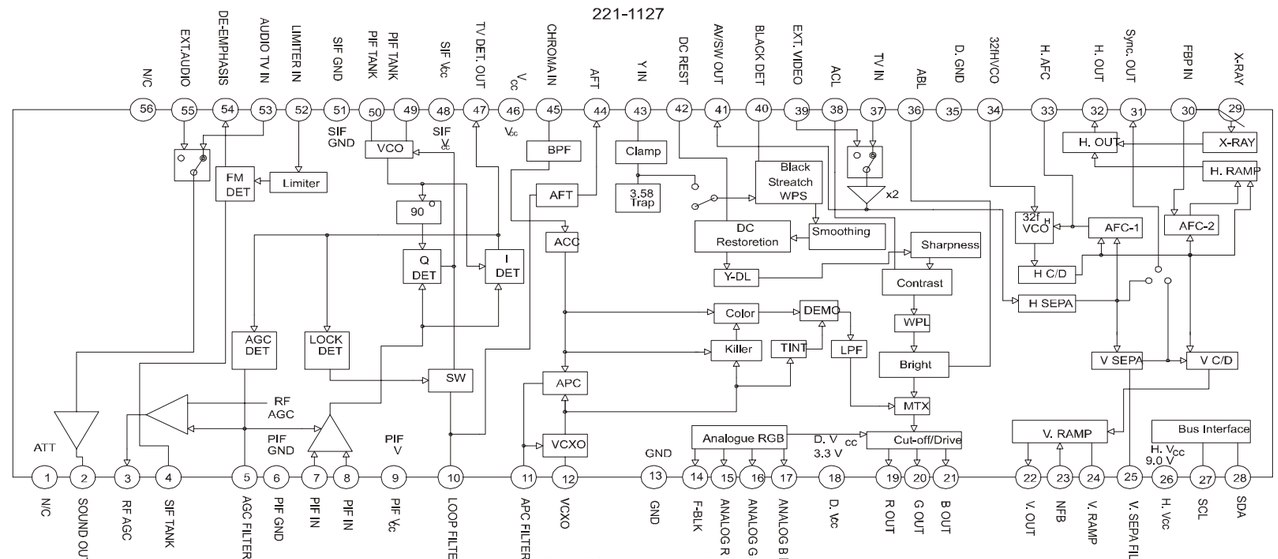
221-1381



BLOCK DIAGRAM No. 4

IC1400

221-1127

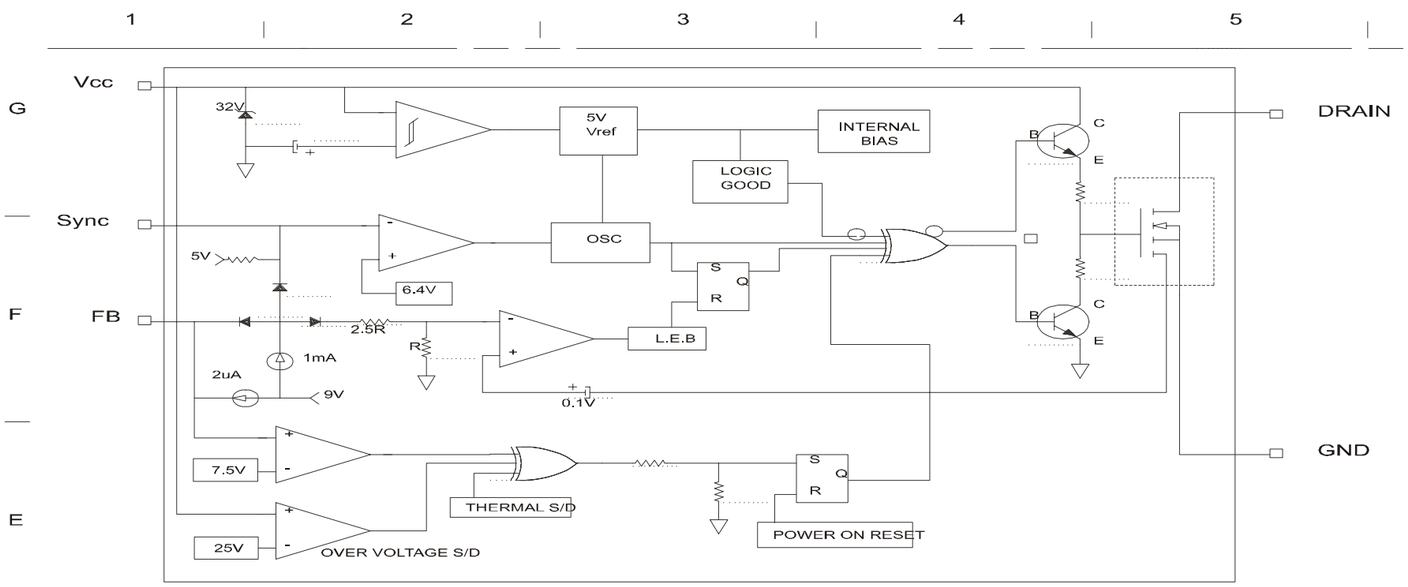


BLOCK DIAGRAM No. 5

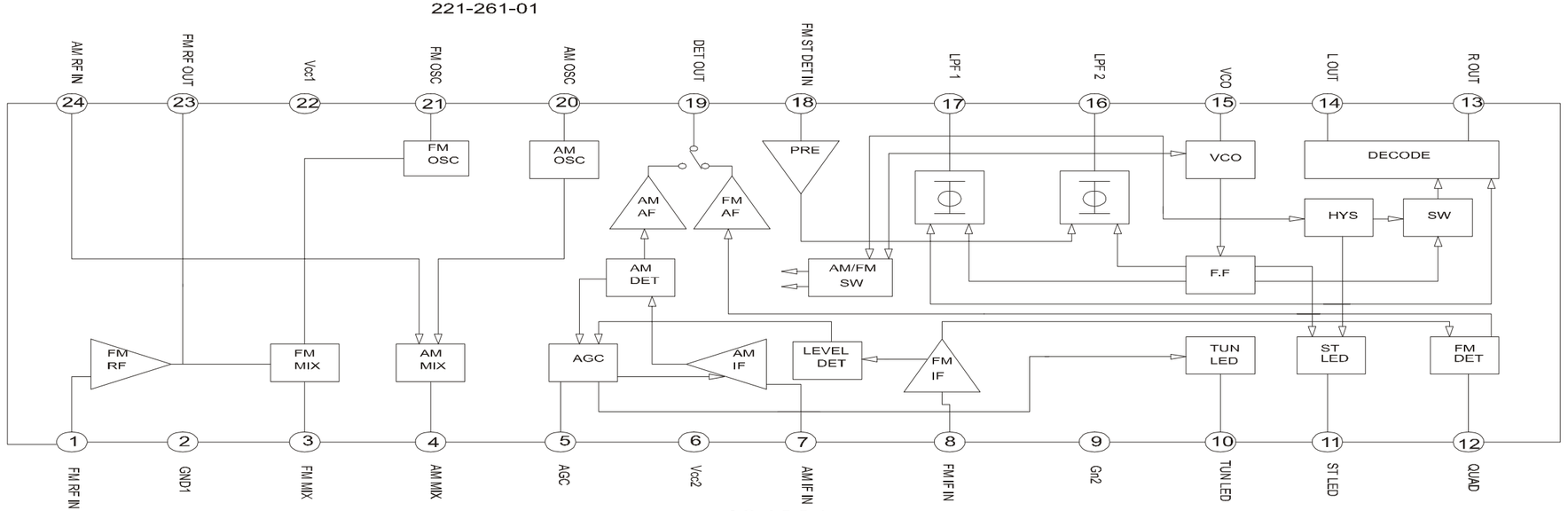
ICX2200

221-1165

Block Diagrams (continued)



ICX3412
BLOCK DIAGRAM No. 7
221-261-01



IC4201
BLOCK DIAGRAM No. 6
221-1020