



SERVICE MANUAL

MODEL: 29M62S

CHASSIS: NX56-LA

| | |
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This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product

1、CAUTION:

Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION
**RISK OF ELECTRIC
SHOCK DO NOT OPEN.**



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



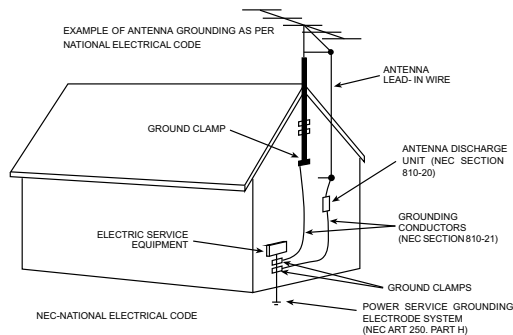
PROTECTION AND LOCATION OF YOUR SET

11.
 - Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
 - Never cover the slots or openings with cloth or other material.
 - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
 - Never place the set near or over a radiator or heat register.
 - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



- 15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.



Product Functional Specification

| | | | |
|--------------|-----------|------------|--------|
| Chassis Name | NX56 | Serial No. | |
| Issued On | 2008-1-18 | Page | 1 of 7 |
| Updated On | | Version | 1.0 |

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- ◆ Version Information: Version states by two Arabic Numbers, which is separated by one dot, e.g. 1.2. The first number “1” means the version of approved file, the second one “2” means the version of draft.

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|--------------|-----------|------------|--------|
| Chassis Name | NX-56 | Serial No. | |
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Revision History

| Model No. | Status | Date | Comment |
|-----------|--------------|------|--------------------------|
| 29A41 | Prepared by | | V1. 0 03-BA41UAE-TH32 |
| | Checked by | | |
| | Released by: | | |
| | Revised by | | |
| | Checked by | | |
| | Released by: | | |
| | Revised by | | |
| | Checked by | | |
| | Released by: | | |
| | Revised by | | |
| | Checked by | | |
| | Released by: | | |

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| Model Item | NX-56-AP 29A41 | | |
|-----------------------------------|-------------------|--|--|
| Master Data | | | |
| -Version | 1 | | |
| -Customer ID | EM | | |
| -Destination | EM | | |
| -Brand | | | |
| -BOM NO. | 03-BA41UAE-TH32 | | |
| -Chassis | | | |
| Reception | | | |
| -Tuning [Channels Amt.] | 255 | | |
| -Tuning [Technology] | PLL | | |
| -Tuning [Indication] | Digital and Bar | | |
| -Frequency Bands | Full Cable | | |
| -IF Frequency | 38.9MHz | | |
| -TV Systems (Color+ Sound) | PAL SECAM BG DK I | | |
| -AV Systems | NTSC PAL SECAM | | |
| Picture-Processing | | | |
| -SCAN | Standard | | |
| -Wide Screen Switching | | | |
| -Comb filter | | | |
| -Picture Enhancement | | | |
| LTI / CTI | | | |
| Black Stretch | X | | |
| Dynamic Skin | | | |
| Others | | | |
| -Picture Control [General] | | | |
| Brightness | X | | |
| Sharpness | X | | |
| Contrast | X | | |
| Tint | X | | |
| Color | X | | |
| -Picture Control [Special] | | | |
| Smart Pictures * modes | 7 modes | | |
| VM | | | |
| Color Temperature | 3 modes | | |
| Others | | | |
| -Picture Noise Reduction | X | | |
| Picture – Display | | | |
| -CRT Type | | | |
| Normal Flat | | | |
| Pure Flat | X | | |
| Super Flat | | | |
| -Deflection system | | | |
| 1Fh | X | | |
| 2Fh | | | |
| -Tube Technology | | | |
| Iron | | | |
| AK | X | | |
| Black Matrix | | | |
| Others | | | |
| -CRT Deflection (* Deg.) | 110 | | |
| -CRT Magnetic Field | | | |
| -Screen Type | 4:3 | | |
| -Screen Size / Vis. Size | 29' | | |
| Sound | | | |
| -Audio Power Consumption | 5W+5W | | |
| -Surround Sound | | | |

| Model Item | NX-56-AP 29A41 | | |
|--------------------------------|----------------------|--|--|
| -Nicam | | | |
| -America Stereo (MTS,BTSC,MPS) | | | |
| -America SAP | | | |
| -Korea Stereo | | | |
| -Thai Bilingual | X | | |
| -Super Woofer | | | |
| -AVL | | | |
| -Sound Control [General] | | | |
| Volume | X | | |
| Mute | X | | |
| -Sound Control [Special] | | | |
| Treble | X | | |
| Bass | X | | |
| Balance | X | | |
| Equalizer | | | |
| Smart Sound * modes | 7 modes | | |
| Others | | | |
| -Speakers Quantity | 2X1 | | |
| User Interface | | | |
| -Menu Language | English/Vietnam/Thai | | |
| -Features [General] | | | |
| AT | X | | |
| Biological Clock | | | |
| Calendar | | | |
| Clock | | | |
| Channel Swap | X | | |
| Channel Naming | | | |
| Child Lock | X | | |
| Favorite Channel | X | | |
| Game | | | |
| Hotel Mode | X | | |
| High Sensitive | | | |
| Notebook | | | |
| On/Off Timer | X | | |
| Preset | X | | |
| Recall | X | | |
| Rotation | | | |
| Sleep | X | | |
| AVC | | | |
| -Features [Special] | | | |
| V-chip / CCD | | | |
| Teletext *Pages | | | |
| Others | | | |
| New Features | | | |
| Smart signal | X | | |
| Voltage display | X | | |
| 环境光检测 | | | |
| Easy search | X | | |
| | | | |
| Tuning Features | | | |
| -Auto Channel Program | X | | |
| -Auto/Manual Tuning | X | | |
| -Auto/Manual Store | X | | |
| -Fine Tuning | X | | |
| -Factory Mode | X | | |
| -Service Mode | | | |
| Cabinet | | | |
| -Cabinet Name | | | |

| Model Item | NX-56-AP 29A41 | | |
|--------------------------------------|-------------------|--|--|
| -Front Cabinet Color | | | |
| -Middle Cabinet Color | | | |
| -Rear Cabinet Color | | | |
| -Local Controls Front | | | |
| Mains Switch | X | | |
| CH+ CH- VOL+ VOL- | X | | |
| TV/AV | X | | |
| Menu | X | | |
| Auto Search | | | |
| -Local Controls Top | | | |
| CH+ CH- VOL+ VOL- | | | |
| TV/AV | | | |
| Menu | | | |
| Auto Search | | | |
| -Indicator | | | |
| RC Received LED | X | | |
| Standby LED | X | | |
| | | | |
| | | | |
| | | | |
| Remote Controller | | | |
| -Type | RC166 | | |
| -Batteries | | | |
| Connectors Rear | | | |
| -SCART Full w/o Y/C | | | |
| -SCART Full with Y/C | | | |
| -SCART Single (CVBS) | | | |
| -Component In (YPbPr) Cinch for 50Hz | | | |
| -In Y/C+Cinch(CVBS+ Stereo) | 1 + 2 | | |
| -In Y/C+Cinch (CVBS+ Mono) | | | |
| -In Cinch(CVBS+ Stereo) | | | |
| -In Cinch (CVBS+ Mono) | | | |
| -Out Cinch(CVBS+ Stereo) | | | |
| -Out Cinch(CVBS+ Mono) | 1(follow TV) | | |
| - Y,Cb,Cr input | X | | |
| -Super Woofer | | | |
| -Digital Audio Out | | | |
| -Loudspeakers | | | |
| -Control Busses | | | |
| -Feature Slot | | | |
| -ITV Smart Port | | | |
| - Antenna in | | | |
| 75 Ohms (IEC Type) | X | | |
| Connectors Front/Side | | | |
| -In Y/C+Cinch(CVBS+ Stereo) | | | |
| -In Y/C+Cinch (CVBS+ Mono) | | | |
| -In Cinch(CVBS+ Stereo) | | | |
| -In Cinch (CVBS+ Mono) | | | |
| -Out Headphone | | | |
| Mini-Jack 3.5mm | | | |
| Final Equipment | | | |
| -Packing –Methods | | | |
| 2 Color Printing | | | |
| Carton Color | | | |
| -Documents and Manuals | | | |
| Instruction Book | | | |
| Screen Sticker | | | |
| Plastic Bag | | | |
| Warranty Card | | | |

| Model Item | NX-56-AP 29A41 | | |
|----------------------------------|-------------------|--|--|
| Guarantee Doc. | | | |
| Warning Label | | | |
| Approbation Label | | | |
| Others | | | |
| -Languages DFU | | | |
| -Indication on BACKOVER | | | |
| Made-in in family sheet | | | |
| FCC/Elect Shock Caution Label | | | |
| CE/Elect Shock Caution Label | | | |
| Warning Label | | | |
| Others | | | |
| Approbation | IEC65 | | |
| Miscellaneous | | | |
| -Mains Voltage | 100-240V | | |
| -Mains Frequency | 50/60Hz | | |
| -Type Mains Cord | | | |
| -Power Consumption TV in ON | 75W | | |
| -Power Consumption TV in Standby | <3W | | |

NX56-AP&NX56B-AP Chassis Alignment Procedure

Disclosure

◆ Proprietary Information: These drawings and specifications are the

| | | | |
|---------------------|------------------|-------------------|--------------|
| Chassis Name | NX56-AP&NX56B-AP | Serial No. | |
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Revision History

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|----------------------------------|-------------|---------------|------------|--|
| 29A41/NX56 | Prepared by | Luo MJ | 2008-01-18 | Ver0.1 03-BA41UAE-TH32 (29A41/NX56) |
| | Checked by | | | |
| | Released by | | | |
| All NX56-AP chassis | Prepared by | Luo MJ | 2008-01-18 | Ver1.0 1. Updated the B+ specs accord with 21" tube. 2. Updated the description accord with the software changing. |
| | Checked by | Guo Guangyuan | 2008-01-23 | |
| | Released by | Zhou Songming | 2008-01-23 | |
| All NX56-AP chassis | Prepared by | Luo MJ | 2008-07-04 | Ver2.0 1. Updated the B+ specs accord with 25" tube. 2. Updated the description accord with the software changing. |
| | Checked by | Guo Guangyuan | 2008-07-04 | |
| | Released by | Zhou Songming | 2008-07-04 | |
| 14F1 21NCM86 29E64S | Prepared by | GUO HQ | 2009-02-09 | Ver3.0 |
| | Checked by | | | |
| | Released by | Zhou Songming | 2009-02-09 | |
| All NX56-AP& NX56B-AP chassis | Prepared by | Luo MJ | 2009-04-24 | Ver4.0 1. Updated the description accord with the software changing. 2. Updated the chassis name. |
| | Checked by | | | |
| | Released by | | | |
| | Prepared by | | | |
| | Checked by | | | |
| | Released by | | | |
| | Prepared by | | | |
| | Checked by | | | |
| | Released by | | | |

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1.1.The way to enter P-Mode

a) Method one

- A) Switch on the TV set.
- B) Press the “MENU” key on RC to show the “PICTURE” OSD menu.
- C) Move the cursor to “Contrast” item then press the “9”, “7”, “3”, “5” key continuously on RC within 3 seconds then enter P-Mode. The “P” letter will appear on the left low corner of the screen when enter P-Mode. Also the “FACTORY HOTKEY” will be set to “ON (= 1)”.

b) Another method

Press the “RECALL” key on RC to enter P-mode directly.

Note:

- 1. This will be active only when the “FACTORY HOTKEY” had set to “ON (= 1)”.
- 2. When the power on with “FACTORY HOTKEY” had set to “ON (= 1)”, the set will enter the P-Mode automatically.

1.2.Exit the P-Mode

Press the “RECALL” or “MENU” key on RC to exit the P-Mode.

1.3.Keys’ function on RC at the P-Mode

Use the RC to navigate in P-Mode:

Press “0” or “AT” key for screen voltage adjustment.

Press “1” to “8” and “FAV” key to select factory adjustment page.

Press “9” key to switch the I2C bus off/on.

Press “▲ ▼” or “CH+ CH-”key to select option.

Press “► ◄” or “VOL+ VOL-” key to adjust or select option.

Press “DISPLAY” key to display software version.

Press “MENU” key to close the factory menu or return to the previous menu or exit the P-Mode.

Press “RECALL” key to enter or exit the P-Mode.

Note: All change in P-Mode will be saved in EEPROM automatically.

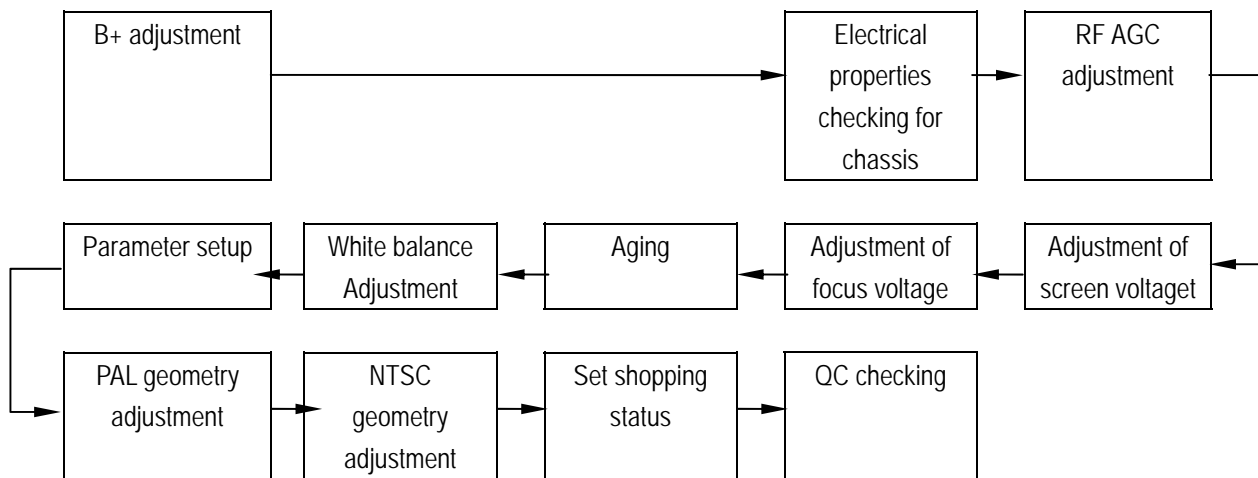
| | | | |
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1.4. The adjustment page list an RC key function on P-Mode:

| RC key | Item | Description |
|---------|------------------------------------|--|
| 0 | Screen voltage adjustment | Adjust the VG2 voltage |
| 1 | Vertical geometry | Vertical geometry page |
| 2 | Horizontal geometry | Horizontal geometry page |
| 3 | White Balance Adjustment | White Balance page |
| 4 | Setup and option page select | Setup and option page 4 |
| 5 | | Setup and option page 5 |
| 6 | | Setup and option page 6 |
| 7 | | Setup and option page 7 |
| 8 | | Setup and option page 8 |
| FAV | | Setup and option page 9 |
| 9 | I2C Bus OFF/ON | Press this key to enter or exit BUS OFF mode |
| DISPLAY | Software version | Display software version |
| MENU | Close menu or exit the P-Mode | Close the factory menu or return to the previous menu or exit the P-Mode |
| RECALL | P-Mode hotkey | Enter or exit the P-Mode |
| AT | Screen voltage adjustment with AKB | Adjust the VG2 voltage |

| | | | |
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2. Flowchart of alignment procedure



- 1) B+ Adjustment
- 2) RF AGC Adjustment
- 3) Screen & Focus adjustment
- 4) White balance adjustment
- 5) Producing parameter setup and option
- 6) Picture Geometry adjustment (Vertical first)
- 7) Set Shopping status
- 8) QC

| | | | |
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3. Adjustment description

Note: Alignment should be done after 3 minutes warm up of TV.

3.1 B+ Voltages

1. All relevant connectors and modules must be connected and inserted.
2. Main voltage is at 220VAC, 50Hz. (voltage range:110VAC~240VAC,50Hz)
3. Connect a voltmeter to B+ (Cathode of D808 for NX56 chassis or cathode of D833 for NX56B chassis) and switch on the set.
4. Input Philips test pattern signal and standard mode.
5. Adjust VR801, it should as the value in below form B+ Voltage.

Table 3.1.1: The B+ value for vary tubes

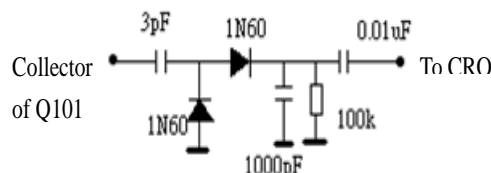
| CRT type (Part Number) | B+ Voltage |
|----------------------------------|-------------|
| A68ERF185X013/M (44-29RFLN-HFCA) | 125V+/-0.5V |
| A51ERF135X90 (44-21RFLW-HF2A) | 105V+/-0.5V |
| A51ERS357X440(44-21RFLM-HF4A) | 108V+/-0.5V |
| CRTA68AGA20X99 (44-29OFLW-TS4A) | 125V+/-0.5V |
| A59EEJ04X60 (44-25OFLP-HF5A) | 125V+/-0.5V |
| A59ERF181X03 (44-25RFLN-HF1A) | 125V+/-0.5V |
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3.2 RF AGC alignment

3.2.1 Method 1

- Connect the detector as shown below (Picture 3.2) to collector of Q101.
- Receive a grey scale signal with 70dB μ V amplitude.
- Enter P-Mode, press “6” key on RC to select “AGCT”.
- Adjust AGCT item until the output of the detector becomes 0.8Vpp



Picture 3.2

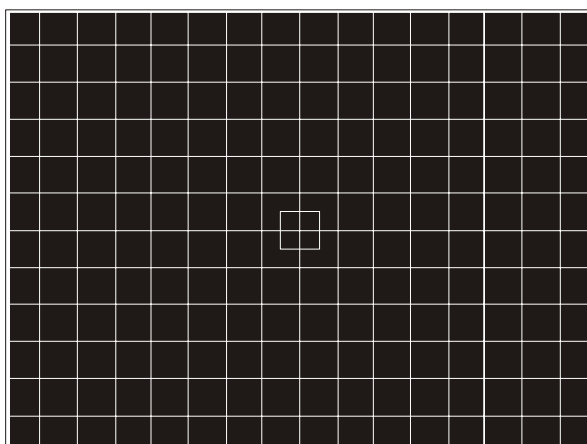
3.2.2 Method 2

- Receive a grey scale signal with 60dB μ V amplitude.
- Enter P-Mode, press “6” key on RC to select “AGCT”.
- Adjust the “AGCT” value until the hint display “AGC” just change between “0” and “1”.

3.3 Screen & Focus adjustment

Note: Alignment below should be done after 15 minutes warm up of TV.

- Input cross hatch pattern signal to RF input.
- Enter P-Mode.
- Press “0” key on the RC and the screen will become a horizontal line.
- Adjust the “SCREEN” VR of the FBT until the horizontal line can just be seen barely (minimum visible intensity).
- Press “0” key again on the RC to exit the screen voltage adjustment mode.
- Adjust the “FCOUS” VR of the FBT until the vertical line and horizontal line becomes clear, like picture 3.3.



Picture 3.3

| | | | |
|---------------------|------------------|-------------------|--------------|
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3.4 White Balance Adjustment

1. Input a black and white pattern to RF input.
2. Enter P-Mode, press key "3" to select white balance adjustment menu.
3. Use the color analyzer to measure the black side of the screen. Adjust the value of "RC", "GC" and "BC" to set the reading of the color analyzer to $x=274$, $y=280$. (11500 K).
4. Then measure the white side of the screen. Adjust the value of "RD", "GD" and "BD" to set the reading of the color analyzer to $x=274$, $y=280$. (11500 K).
5. Repeat step 3&4 until you can get the correct reading for both black and white sides.

Note:

A. The "SubBRI" and "SubCON" items are used to assist the white balance adjustment. It is the same function as the user OSD menu "Brightness" and "Contrast" items. You can adjust these items to get the expected intensity when adjusting the white balance.

B. The "BLOR-Y", "BLOG-Y" and "BLOB-Y" items are used for the YUV white balance black level offset setup. When the TV white balance adjustment is done, connect a black and white pattern to YUV input terminal. Use the color analyzer to measure the black side of the screen. Adjust the value of the "BLOR-Y", "BLOG-Y" and "BLOB-Y" to set the reading of the color analyzer to $x=274$, $y=280$.

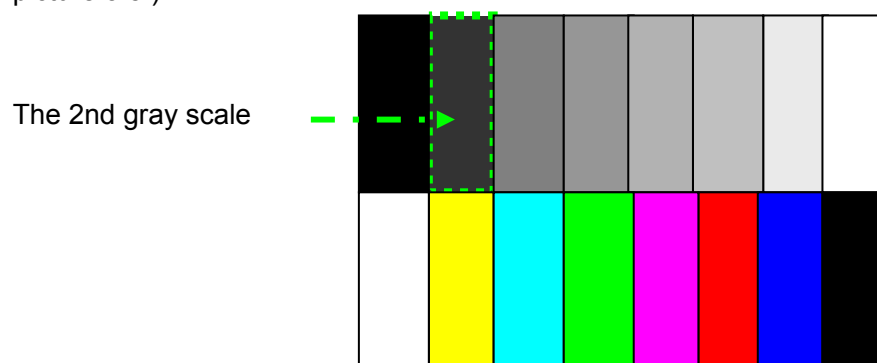
Table 3.4.1: The White Balance adjustment OSD menu

| OSD menu | Default Value | Description | Remark |
|----------|---------------|--|---|
| RC | 32 | R cut-off setting(BLOR) | Adjust to right value |
| GC | 32 | G cut-off setting(BLOG) | Adjust to right value |
| BC | 32 | B cut-off setting(BLOB) | Adjust to right value |
| RD | 37 | R drive setting(WPR) | Adjust to right value |
| GD | 32 | G drive setting(WPG) | Adjust to right value |
| BD | 37 | B drive setting(WPB) | Adjust to right value |
| BLOC | 8 | Black level offset course(BLOC) | Adjust to right value accord with the tube. Recommended value= "8" |
| PWL | 8 | Peak White Limiting | Adjust to right value accord with the tube. Recommended value= "8" |
| BriVSD | 32 | Brightness of horizontal line when adjust G2 | Don't adjust, use default value "32" for producing |
| SubBRI | 32 | Brightness | Same as user "Brightness" and "Contrast" adjust |
| SubCON | 32 | Contrast | |
| BLOR-Y | 64 | YUV white balance black level offset. | Adjust to right value accord with the difference tube and lot |
| BLOG-Y | 62 | | |
| BLOB-Y | 64 | | |
| BRTC | 31 | Sub-Brightness | See section 3.5 for detailed |

| | | | |
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3.5 Sub brightness adjustment

1. Input eight steps gray signal.
2. Press key “3” to enter sub-brightness adjustment.
3. At dynamic state, adjust “BRTC” until the secondary gray bar just to be seen. (like picture 3.5.)



Picture 3.5

3.6 Picture Geometry adjustment

3.6.1 Vertical geometry adjustment

1. Input a PAL crosshatch pattern signal to RF input.
2. Enter P-Mode, press key “1” to select vertical geometry adjustment. (The OSD menu for this adjustment as below table 3.6.1. For NTSC signal, the “-50” will be replaced with “-60”.)
3. Adjust the value of the corresponding item to make the vertical geometry of the pattern look good.
4. Apply NTSC signal to adjust these value for NTSC vertical geometry.

Table 3.6.1: The vertical geometry adjustment OSD menu

| OSD menu | Default Value | Description | Remark |
|------------|---------------|------------------------|-----------------------|
| VSLOPE-50 | 32 | Vertical slope(VS) | Adjust to right value |
| VCEN-50 | 32 | Vertical shift (VSH) | Adjust to right value |
| VSIZE-50 | 32 | Vertical amplitude(VA) | Adjust to right value |
| VZOOM-50 | 25 | Vertical zoom(VX) | Adjust to right value |
| VSC-50 | 32 | S-correction(SC) | Adjust to right value |
| VSCROLL-50 | 32 | Vertical Scroll (VCS) | Adjust to right value |

Note:

1. For NTSC signal, the “-50” will be replaced with “-60”.
2. For NTSC signal, only the “VCEN-60” and “VSIZE-60” items need the adjustment, the other items use the same data as PAL signal.

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3. On producing, please use the “**AUTO OFFSET**” (On page “2”) function to easy the geometry adjustment of NTSC signal. When finished the PAL signal geometry adjustment, press “2” key to enter page “2” to select “**AUTO OFFSET**” item, press “▶” key to active the automatic offset function. Then the geometry adjustment of NTSC signal will finish automated. If the geometry of NTSC signal is look good, you don’t need to adjust the geometry of NTSC signal any more.

3.6.2 Horizontal geometry adjustment

1. Input a PAL crosshatch pattern signal to RF input.
2. Enter P-Mode, press key “2” to select horizontal geometry adjustment. (The OSD menu for this adjustment as below table 3.6.2. For NTSC signal, the “-50” will be replaced with “-60”.)
3. Adjust the value of the corresponding item to make the horizontal geometry of the pattern look good.
4. Apply NTSC signal to adjust these value for NTSC horizontal geometry.

Table 3.6.2: The horizontal geometry adjustment OSD menu

| OSD menu | Default Value | Description | Remark |
|-------------|---------------|--------------------------------|------------------------------------|
| HCEN-50 | 32 | Horizontal shift(HSH) | Adjust to right value |
| HSIZE-50 | 32 | EW width(EWW) | Adjust to right value |
| HPARA-50 | 32 | EW parabola width(PW) | Adjust to right value |
| HTRAP-50 | 32 | EW trapezium(TC) | Adjust to right value |
| HCNRT-50 | 32 | EW upper corner parabola(UCP) | Adjust to right value |
| HCNRB-50 | 32 | EW lower corner parabola(LCP) | Adjust to right value |
| HBOW-50 | 32 | Horizontal bow(HB) | Adjust to right value |
| HPARALLEL | 32 | Horizontal parallelogram(HP) | Adjust to right value |
| AUTO OFFSET | 0 | Automatic offset NTSC geometry | See below description for detailed |

Note:

1. For NTSC signal, the “-50” will be replaced with “-60”.
2. For NTSC signal, only the “**HCEN-60**” and “**HSIZE-60**” items need the adjustment, the other items use the same data as PAL signal.
3. On producing, please use the “**AUTO OFFSET**” (On page “2”) function to easy the geometry adjustment of NTSC signal. When finished the PAL signal geometry adjustment, press “2” key to enter page “2” to select “**AUTO OFFSET**” item, press “▶” key to active the automatic offset function. Then the geometry adjustment of NTSC signal will finish automated. If now the geometry of NTSC signal is look good, it not needed to adjust the geometry of NTSC signal any more.

3.7 Producing parameter setup and option

| | | | |
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1. Enter P-Mode, press key “4” to select page “4”.Set the corresponding item to require value. See below table 3.7.1 for detailed description.

Table 3.7.1: Producing parameter setup and option page “4”

| OSD menu | Default Value | Description | Remark |
|------------------|---------------|--|---|
| WARM UP STATUS | 0 | Set aging mode | 0=Aging mode off |
| | | | 1=Aging mode on |
| SHOP INIT | 0 | Set the shopping status | 0=>1= Set the shopping status |
| DCXO | 2 | Crystal oscillator frequency adjustment | Adjust this value to get the max color synchronization range. Don't adjust, use default value for producing |
| FACTORY HOTKEY | 1 | Set factory hotkey | 0="FACTORY HOTKEY" off |
| | | | 1="FACTORY HOTKEY" on |
| POWER ON MODE | LAST | Set the power on mode | ON=On when power on |
| | | | STB=Standby when power on |
| | | | LAST=Last power off status |
| EEPROM INIT | 0 | EEPROM initial | 0=>1=Active EEPROM initial |
| POWER LOW | 101 | Set the “Voltage display” “LOW” and “HIGH” threshold | Recommended value= “16” |
| POWER HIGH | 176 | | Recommended value= “168” |
| DEFAULT SND. SYS | DK | Set the default sound system when auto store | Set the right value according to the sales area |
| BLUE BACK OPT | 2 | Set the Background option while no signal | 0= Blue background for TV and AV while no signal |
| | | | 1=Black background for TV and AV while no signal |
| | | | 2=Snowy background for TV and black background for AV while no signal |
| BLACK BRI | 40 | Set the black background brightness while no signal | Recommended value= “20” |
| BRI CURVE | >> | Set the brightness curve | Press “▶◀” or “VOL+ VOL-” key to enter a sub-menu to do the setup, and press “MENU” key the previous menu |
| CON CURVE | >> | Set the contrast curve | |
| COL CURVE | >> | Set the colour curve | |
| VOL CURVE | >> | Set the volume curve | |

Description:

1). Set the shopping status

When trigger the “SHOP INIT” item form “0” to “1”, the TV will be put on selling status.

The TV status after shopping status:

A. “FACTORY HOTKEY” had set to “OFF”.

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- B. Picture set to “Standard” status. (Brightness=50, Contrast=50, Colour=50, White tone=Normal.)
- C. Sound set normal.(Volume=30,Balance=50.)
- D.

2). Set the user picture and sound curve value

- A. Brightness curve:

| OSD menu | Default Value | Description | Remark |
|----------|---------------|---|-------------------|
| BRI0 | 0 | Set the minimal brightness when user Brightness=0 | Set to 3 |
| BRI50 | 32 | Set the brightness when user Brightness=50 | Use default value |
| BRI100 | 63 | Set the maximal brightness when user Brightness=0 | |

- B. Contrast curve:

| OSD menu | Default Value | Description | Remark |
|----------|---------------|---|-------------------|
| CON0 | 0 | Set the minimal contrast when user Contrast=0 | Set to 3 |
| CON50 | 32 | Set the contrast when user Contrast=50 | Use default value |
| CON100 | 63 | Set the maximal contrast when user Contrast=0 | |

- C. Colour curve:

| OSD menu | Default Value | Description | Remark |
|----------|---------------|---|-------------------|
| COL0 | 0 | Set the minimal colour when user Colour=0 | Set to 3 |
| COL50 | 32 | Set the colour when user Color=50 | Use default value |
| COL100 | 63 | Set the maximal colour when user Colour=0 | |

- D. Volume curve:

| OSD menu | Default Value | Description | Remark |
|----------|---------------|-------------------------------------|-------------------|
| VOL0 | 0 | Set the volume when user Volume=0 | Use default value |
| VOL10 | 38 | Set the volume when user Volume=10 | |
| VOL30 | 65 | Set the volume when user Volume=30 | Set to 63 |
| VOL50 | 71 | Set the volume when user Volume=50 | Set to 69 |
| VOL80 | 77 | Set the volume when user Volume=80 | Set to 75 |
| VOL100 | 83 | Set the volume when user Volume=100 | Set to 81 |

3). Set the value for “POWER LOW” and “POWER HIGH”

- A. Connect the main voltage at low threshold 95VAC/50Hz.
- B. Select item “POWER LOW”.
- C. Adjust the value until the hint display just change between “AC: NORMAL” and “AC: LOW”.
- D. Connect the main voltage at high threshold 255VAC/50Hz.
- E. Select item “POWER HIGH”.
- F. Adjust the value until the hint display just change between “AC: NORMAL” and “AC: HIGH”.

| | | | |
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2. Enter P-Mode, press key “5” to select page “5”. Set the corresponding item to require value. See below table 3.7.2 for detailed description.

Table 3.7.2: Producing parameter setup and option page “5”

| OSD menu | Default Value | Description | Remark |
|-------------|---------------|---|------------------------------------|
| Track. Mode | 1 | EHT tracking mode | 0=EHT tracking only on vertical |
| | | | 1=EHT tracking on vertical and EW |
| VX Normal | 25 | 4:3 mode vertical zoom | Don't adjust, use default |
| VX Compr. | 0 | 16:9 mode vertical zoom | Don't adjust, use default |
| WBF | 5 | Wide blanking start | Don't adjust, use default |
| WBR | 8 | Wide blanking end | Don't adjust, use default |
| GET OFFSET | 0 | Get offset | See below description for detailed |
| ColdRC | 61 | Cold color temperature R and G cut-off offset | Recommended value= “61” |
| ColdGC | 56 | | Recommended value= “56” |
| ColdRD | 61 | Cold color temperature R and G drive offset | Recommended value= “61” |
| ColdGD | 66 | | Recommended value= “66” |
| WarmRC | 72 | Warm temperature R and G cut-off offset | Recommended value= “72” |
| WarmGC | 71 | | Recommended value= “71” |
| WarmRD | 65 | Warm color temperature R and G drive offset | Recommended value= “65” |
| WarmGD | 64 | | Recommended value= “64” |

Description for AUTO OFFSET and GET OFFSET:

The “**GET OFFSET**” can use to make the EEPROM copy by PE engineer. When the PAL and NTSC geometry adjustment had finished, trigger the “GET OFFSET” from “0” to “1” to store the geometry offset datum between PAL and NTSC in EEPROM.

On producing, these geometry offset datum can use to easy the NTSC geometry adjustment. When finished the PAL geometry adjustment, trigger the “AUTO OFFSET” from “0” to “1”, then the geometry adjustment of NTSC signal will finish automated. If now the geometry of NTSC signal is look good, it not needed to adjust the geometry of NTSC signal any more.

3. Enter P-Mode, press key “6” to select page “6”. Set the corresponding item to require value. See below table 3.7.3 for detailed description.

Table 3.7.3: Producing parameter setup and option page “6”

| OSD menu | Default Value | Description | Remark |
|----------|---------------|------------------------------|--|
| AGCT | 32 | AGC take over point | See section “3.2 RF AGC alignment” for detailed. |
| AGC | 0 | AGC take over point indicate | |
| OIF | 32 | IF demodulator offset | Don't adjust, use default |

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| | | | |
|------|-------|--------------|---------------------------|
| IF | 38.90 | IF frequency | Select the IF frequency |
| AGCS | 1 | AGC speed | Don't adjust, use default |
| AGNE | 3 | Audio gain | Don't adjust, use default |

4. Enter P-Mode, press key "7" to select page "7". Set the corresponding item to require value. See below table 3.7.4 for detailed description.

Table 3.7.4: Producing parameter setup and option page "7"

| OSD menu | Default Value | Description | Remark |
|-----------|---------------|--|--|
| EVG | 0 | Enable vertical guard(RGB blanking) | 1= RGB blanking |
| DFL | 0 | Disable flash protection from deflection timer | Don't adjust, use default |
| XDT | 0 | X-ray detection | Don't adjust, use default |
| AKB | 1 | Black current stabilization | Don't adjust, use default |
| NBL | 1 | Black current loop application | Don't adjust, use default |
| OSVE | 0 | Black current measuring lines in over scan(for vertical zoom setting <1) | Don't adjust, use default |
| CL | 8 | Set the cathode drive level | Adjust to right value accord with the tube. Recommended value= "12" |
| NTSCM | 0 | RF NTSC M enable | 0=Disable |
| NTSC443 | 0 | AV NTSC443 enable | 1= Enable |
| ONE SPEAK | 0 | Mono speaker output setup (Note: this item is available on AP3 version) | 0=Stereo speaker 1=Mono speaker |

5. Enter P-Mode, press key "8" to select page "8". Set the corresponding item to require value. See below table 3.7.5 and table 3.7.6 for detailed description.

Table 3.7.5: Producing parameter setup and option page "8"(For AP2 version)

| OSD menu | Default Value | Description | Remark |
|------------------|---------------|--|------------------------|
| HOTEL | 0 | Hotel mode enable | 0=Disable 1= Enable |
| A2 THAI | 1 | Thailand dual language enable | |
| PIC PRESET | 1 | Picture preset enable | |
| AV ALIGMENT | 1 | Rear AV terminal align | 0=3 x 3 1=4 x 3 |
| SHVS ENABLE | 1 | S-Video terminal enable | 0=Disable 1=Enable |
| YUV ENABLE | 1 | YUV terminal enable | |
| NOCOMMAND ENABLE | 0 | No operation within 2 hours automatic standby enable | |
| ARABIC* | 1 | Arabic enable | |

| | | | |
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| | | | |
|--------------|---|---|-----------------|
| RUSSIAN* | 1 | Russian enable | |
| FRENCH* | 1 | French enable | |
| FARSI* | 1 | Farsi enable | |
| TUNER TYPE* | 1 | Select tuner type | 0=ALPS tuner |
| | | | 1=TCL tuner |
| AV STANDB | 0 | AV no signal within 10 minutes automatic standby | 0=Disable |
| | | | 1=Enable |
| AVOUT FOLLOW | 0 | AV output source follow | 0=Follow TV |
| | | | 1=Follow source |

Table 3.7.6: Producing parameter setup and option page “8”(For AP3 version)

| OSD menu | Default Value | Description | Remark |
|------------------|---------------|---|------------------------|
| HOTEL | 0 | Hotel mode enable | 0=Disable 1= Enable |
| A2 THAI | 1 | Thailand dual language enable | |
| HEALTH FLAT | 1 | Health platform TV enable | |
| AC DISPLAY | 1 | AC voltage checking enable | |
| AV ALIGMENT | 1 | Rear AV terminal align | 0=3 x 3 |
| | | | 1=4 x 3 |
| AV2 ENABLE | 1 | AV2 input enable | 0=Disable 1=Enable |
| SHVS ENABLE | 1 | S-Video terminal enable | |
| YUV ENABLE | 1 | YUV terminal enable | |
| NOCOMMAND ENABLE | 0 | No operation within 2 hours automatic standby enable | |
| THAI* | 1 | Thai enable | |
| VIET* | 1 | Vietnamese enable | |
| TUNER TYPE* | 1 | Select tuner type | 0=ALPS tuner |
| | | | 1=TCL tuner |
| AV STANDB | 0 | AV no signal within 10 minutes automatic standby | 0=Disable |
| | | | 1=Enable |
| AVOUT FOLLOW | 0 | AV output source follow | 0=Follow TV |
| | | | 1=Follow source |

*Note: When change the Language or the tuner type, you must AC restart the TV set to make it active.

6. Enter P-Mode, press key “FAV” to select page “9”. Set the corresponding item to require

| | | | |
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value. See below table 3.7.7 for detailed description.

Table 3.7.7: Producing parameter setup and option page “9”

| OSD menu | Default Value | Description | Remark |
|----------|---------------|--|--------------------------|
| BKS | 1 | Black stretch enable | 0=Disable |
| | | | 1=Enable |
| BSD | 0 | Black Stretch depth | 0=15IRE |
| | | | 1=30IRE |
| AAS | 0 | Black area to switch off the black stretch | 0=12% |
| | | | 1=20% |
| | | | 2=6% |
| | | | 3=8% |
| RPA | 1 | Ratio of pre- and after shoot | 0=1:1 |
| | | | 1=1.5:1 |
| | | | 2=2:1 |
| RPO | 1 | Ratio of positive and negative peaks | 0=1:1 |
| | | | 1=1:1.3 |
| | | | 3=1:1.7 |
| | | | 4=1:0.7 |
| SOC | 2 | Soft clipping level above PWL | 0=0% |
| | | | 1=5% |
| | | | 2=10% |
| | | | 3=Soft clipping off |
| COR | 0 | Video peaking active range | 0=off |
| | | | 1= between 0 and 20 IRE |
| | | | 2= between 0 and 40 IRE |
| | | | 3= between 0 and 100 IRE |

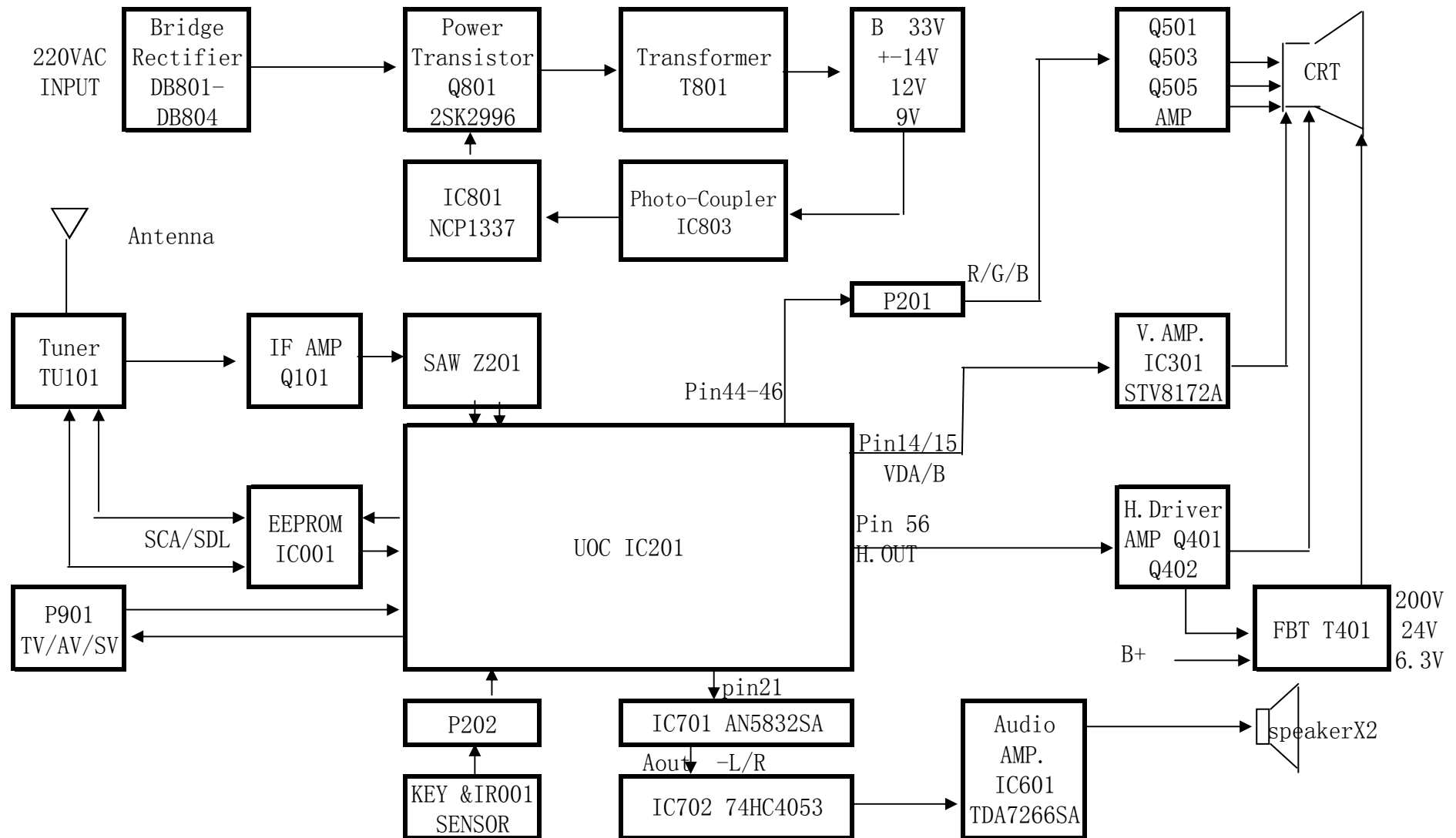
3.8 Screen voltage (VG2) adjustment with AKB function

1. Put the TV in AV source without input signal.
2. Enter P-Mode, press RC key "AT", there will display
3. Adjust the "SCREEN" VR of the FBT until VG2 hint display (LOW/OK/HIGH) display "OK" stably.
4. Press “MENU” return to P-Mode.

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Chapter II Block Diagram of NX56

July5, 2008



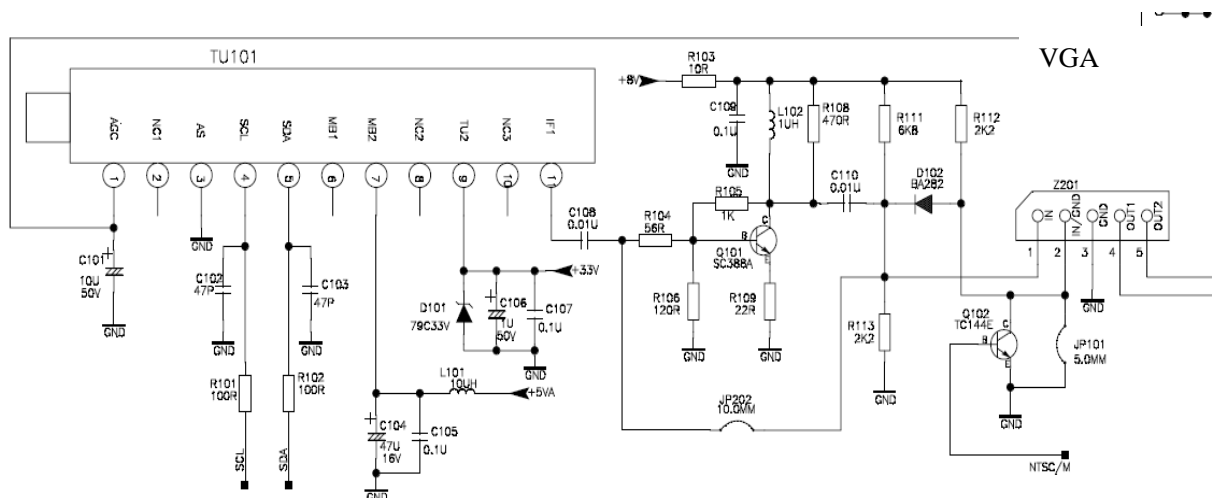
NX56 Chassis Signal Processing Introduction

Brief introduction

For different market requirements, our design it in two versions, one is for Latin America, we call the chassis as NX56-LA, the another one is for Asia Pacific Area, we call the chassis as NX56-AP. NX56-LA and NX56-AP adopt different UOC, The UOC for Latin America have CCD-Chip and BTSC function, so added AN5832SA to realize BTSC, but the UOC for Asia Pacific region does not have the two functions but SECAM system is necessary. NX56 Chassis not only match 21inches CRT, but also match 25 and 29inches CRT. Due to different screen sizes, maybe adopt different audio power amplifiers. The others should be the same. No matter NX56-AP what NX56-LA, they are use same main PCB board, just different peripheral components.

RF Section

Tuner Tu101 receive the radio frequency signal, after inside circuit to do signal receiving, and signal amplifying. The amplified high frequency signal accompany with the high frequency oscillation voltage oscillated by set oscillator input to the mixer. The IF picture signal and sound signal formed in mixer and output from mixer, then send to picture IF processing circuit.



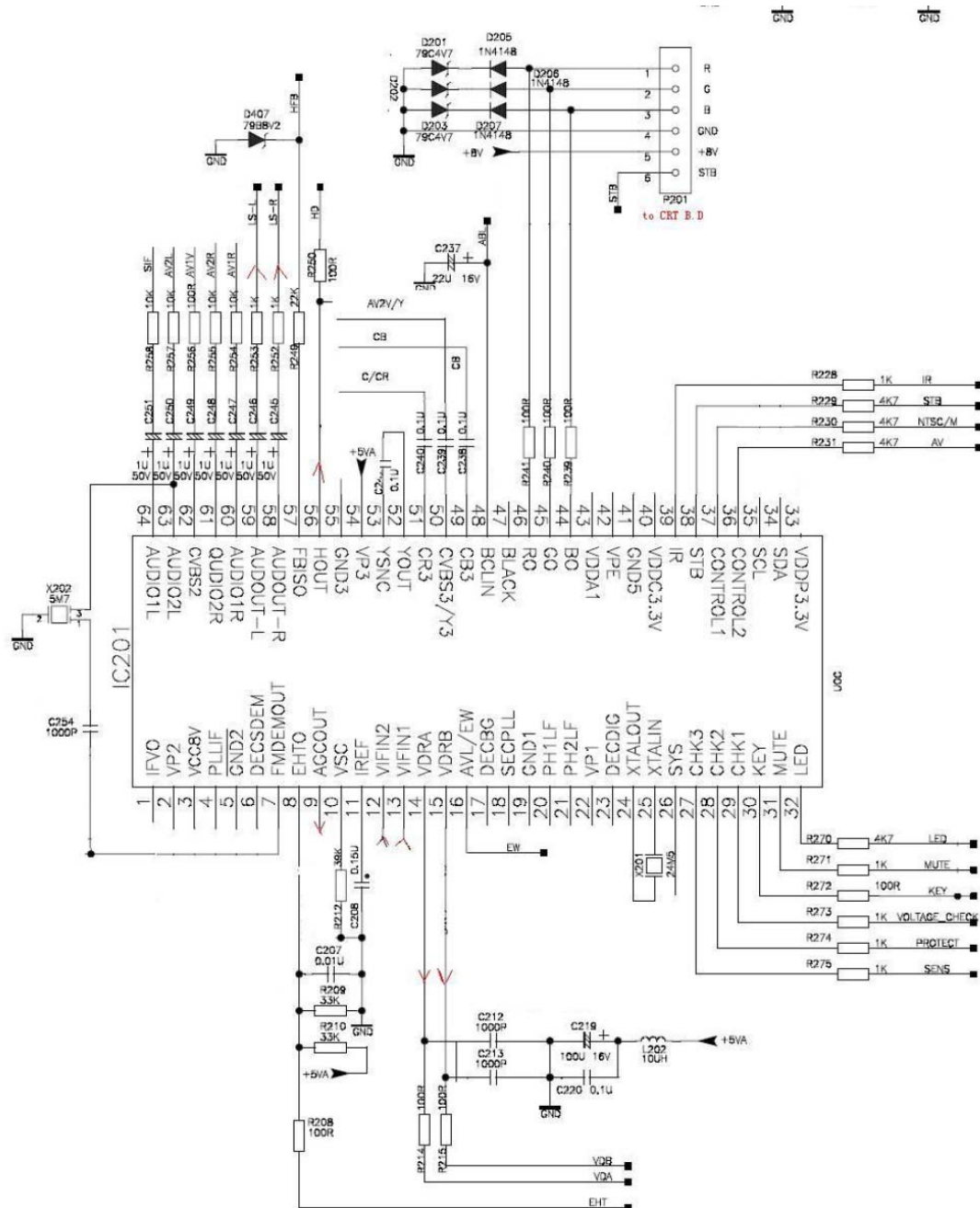
(Fig. 1. Tuner section)

Small Signal Processing Section

Small signal processing section is the IF (intermediate frequency) signal across saw filter send in the pin12 and pin13 of IC201. The VIFIN signal through built-in PLL DEMOD, sound trap, video amplifier and synchronous detector processing, get the color video broadcast signal and 2nd sound IF signal.

Video signal processing section is CVBS across video filter and delay line and horizontal & vertical synchronous separation circuit processing and get H-drive (pin56 of IC201) and V-drive signal (pin15/pin15 of IC201).

IF sound signal across the sound-down-mixer and AM demodulator processing, send out the AVL/ SSIF OUT signal. (Refer to Fig2 and Fig 3.)



(Fig 2. Small Signal Processing Section)

Vertical Scanning Section

Vertical scanning section adopted STV8172A vertical deflection booster, we use as differential-output driver. The vertical raw-tooth wave signal sends out from pin14/15 of IC201 VDA/VDB. The two differential signal input pin 1 and 7 of STV8172A IC301. Pin2(+14v) and Pin7(-14v) of IC301 is power supply which come from the main power transformer. Pin 6 is boost voltage, rectified by D301. C309,C301 and R305 makes up a voltage feedback network, R306 is a damping resistor. C306 is correction capacitor, R308 is current feedback resistor.

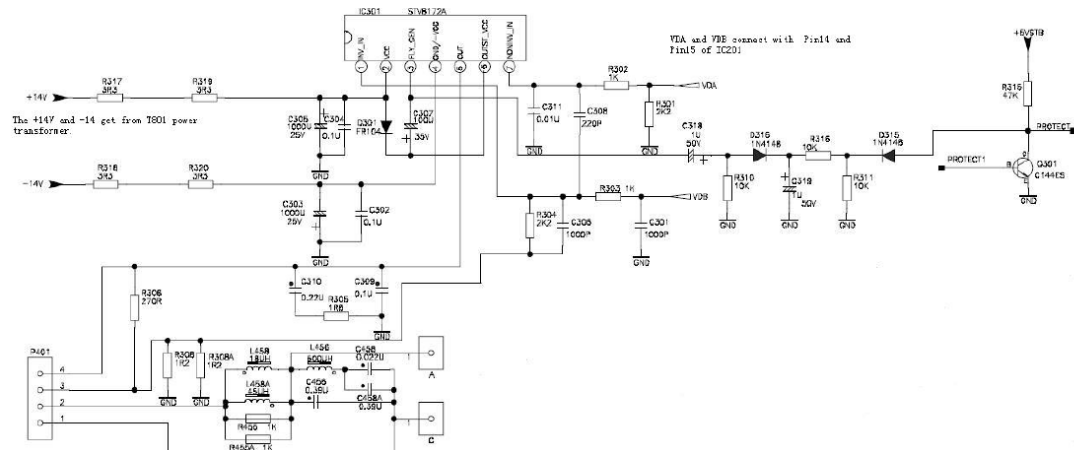
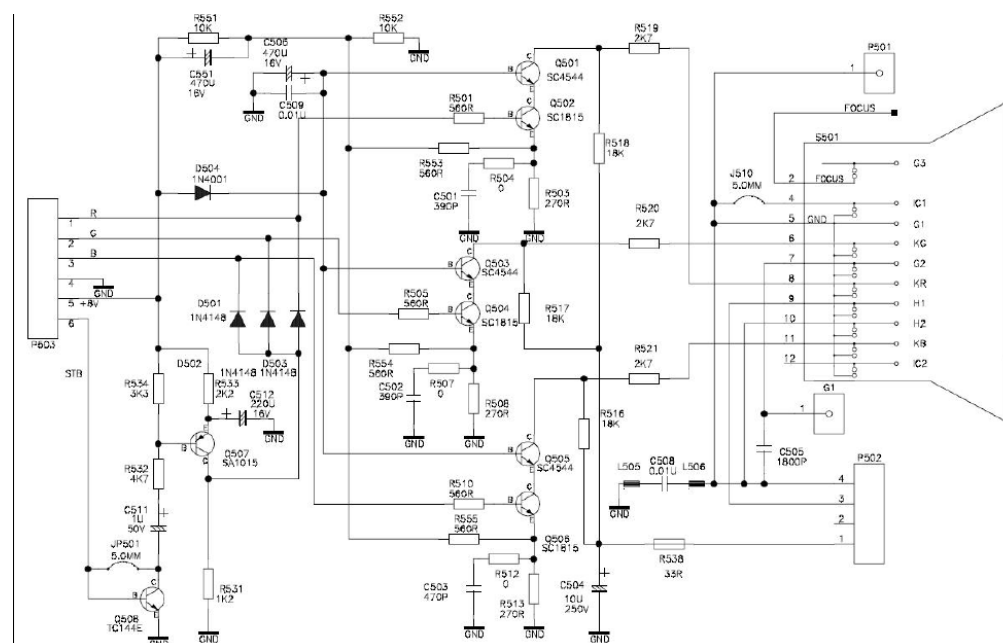


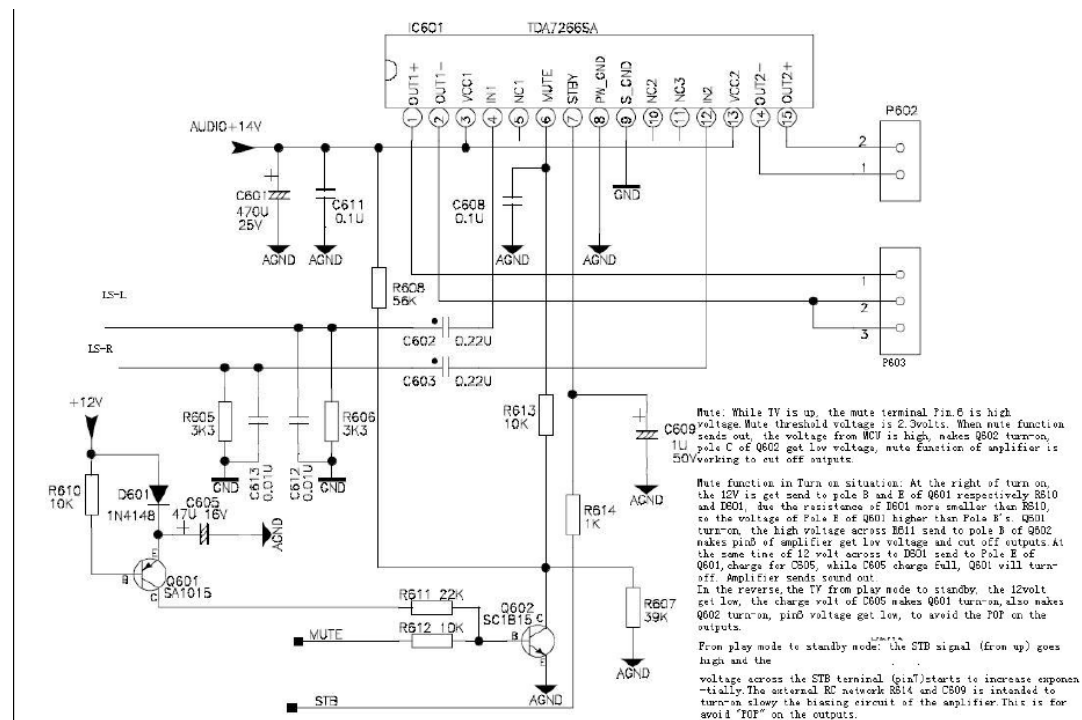
Fig 4. Vertical Scanning Processing Section

CRT Scanning Section

Q507, D501, D502 and D503 makes up a light eliminate circuit network. When the TV is playing mode, +8V voltage across R533 charge for C512, Q507 is cut off. At the right of turn off the TV, Q507 is turn-on, the current across D501, D502 and D503 send to R.G. B to discharge the electronic quickly.

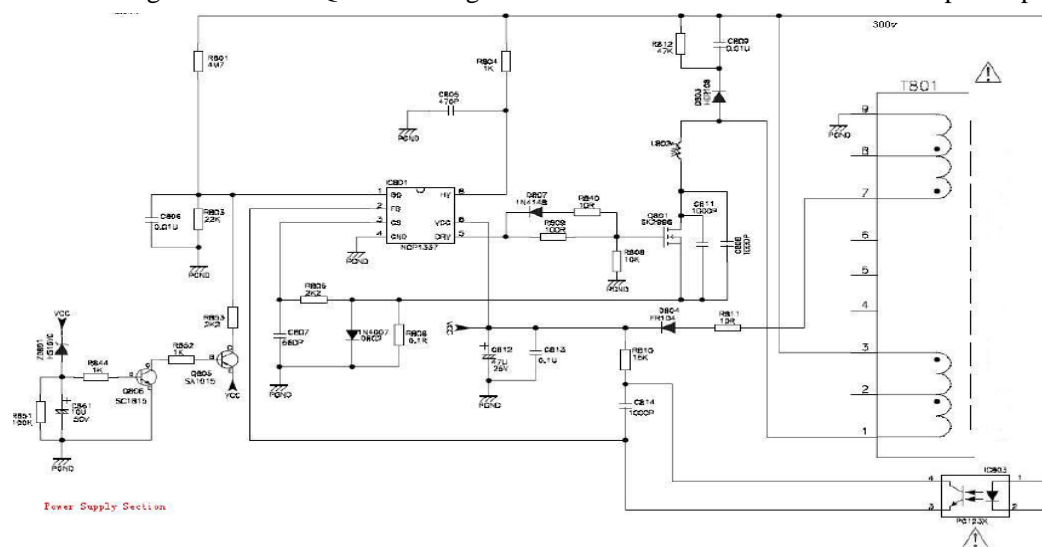


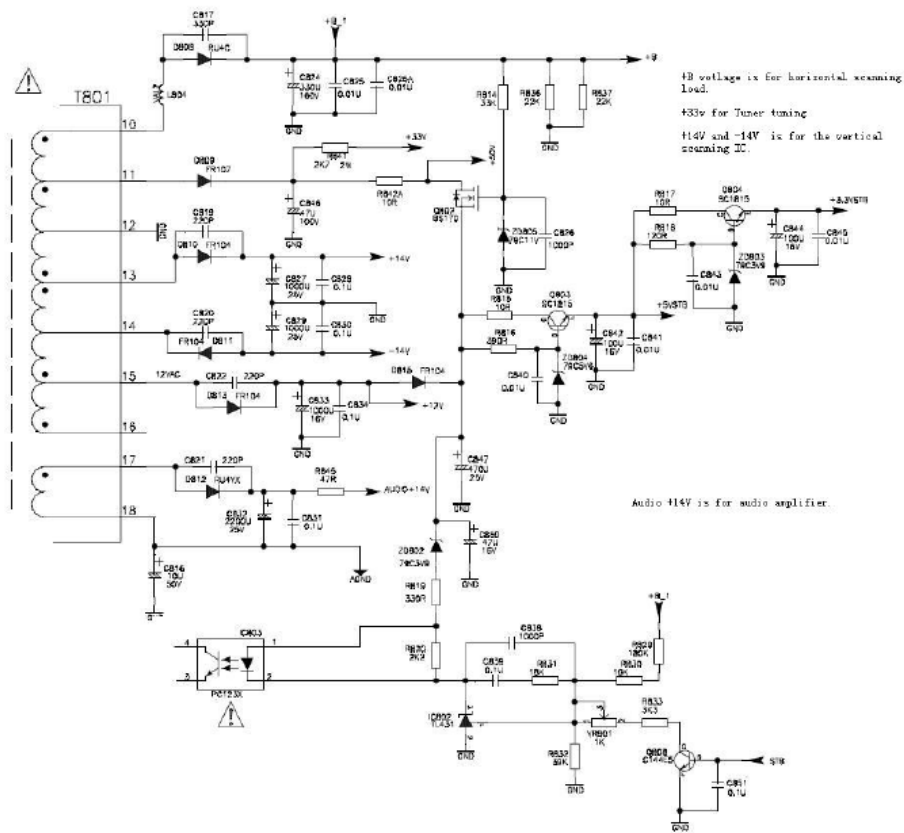
Audio Power Amplifying Section



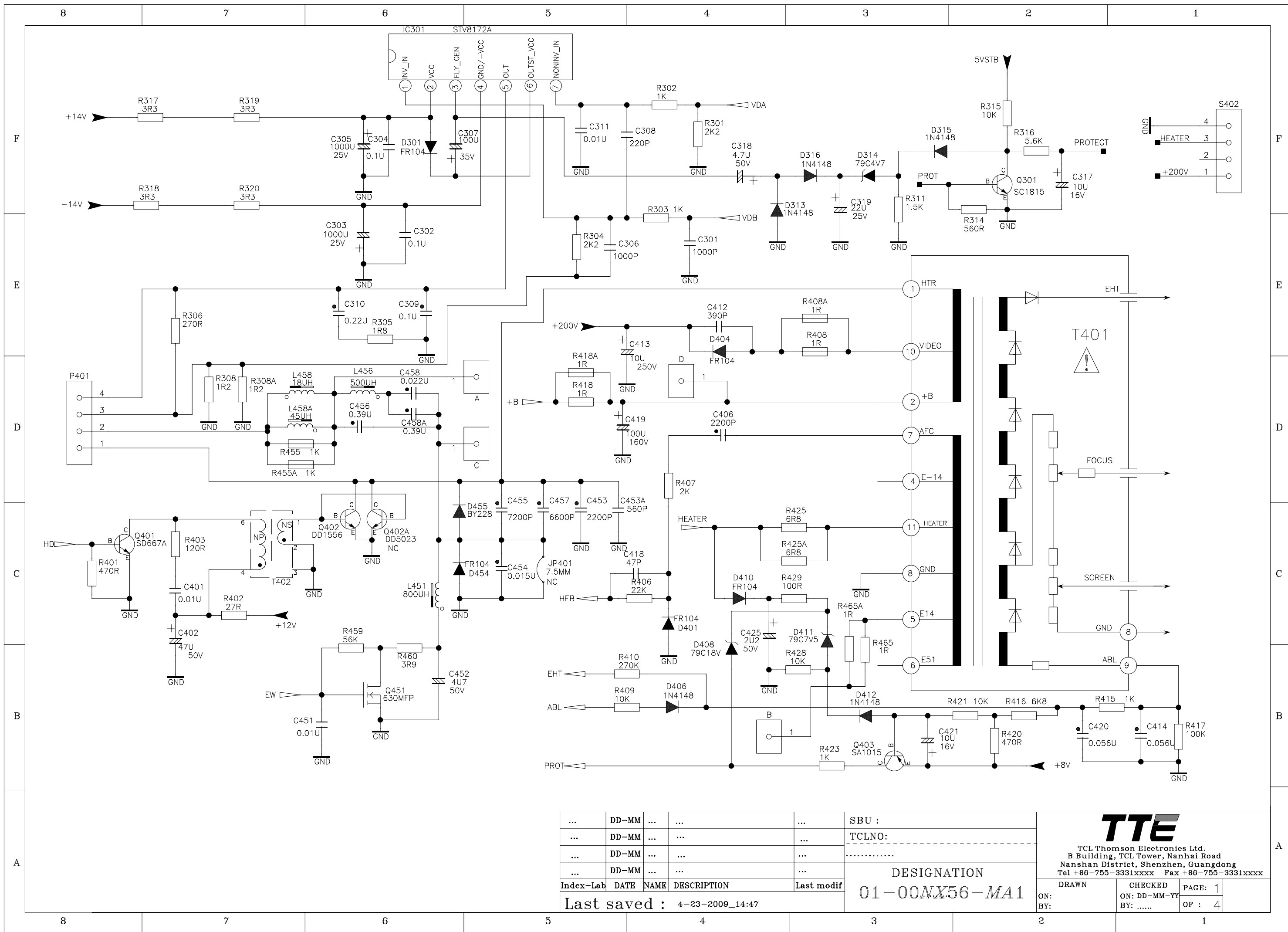
Power Supply Section

AC supply 220V/110v through filtering network and rectifying circuit and get 300Vdc voltage. LF801/LF801A and CX802 makes up a differential mode rejection, LF802 and CY801,CY802 makes up a common mode rejection network. D801-D804 is rectifying network. 300Vdc voltage supply pin3 of T801, also through R804 send to pin8 of IC801 NCP1337. Pin5 of IC801 sends out the PWM signal to control Q801 working in switch on and off situation. IC803 is optocoupler.

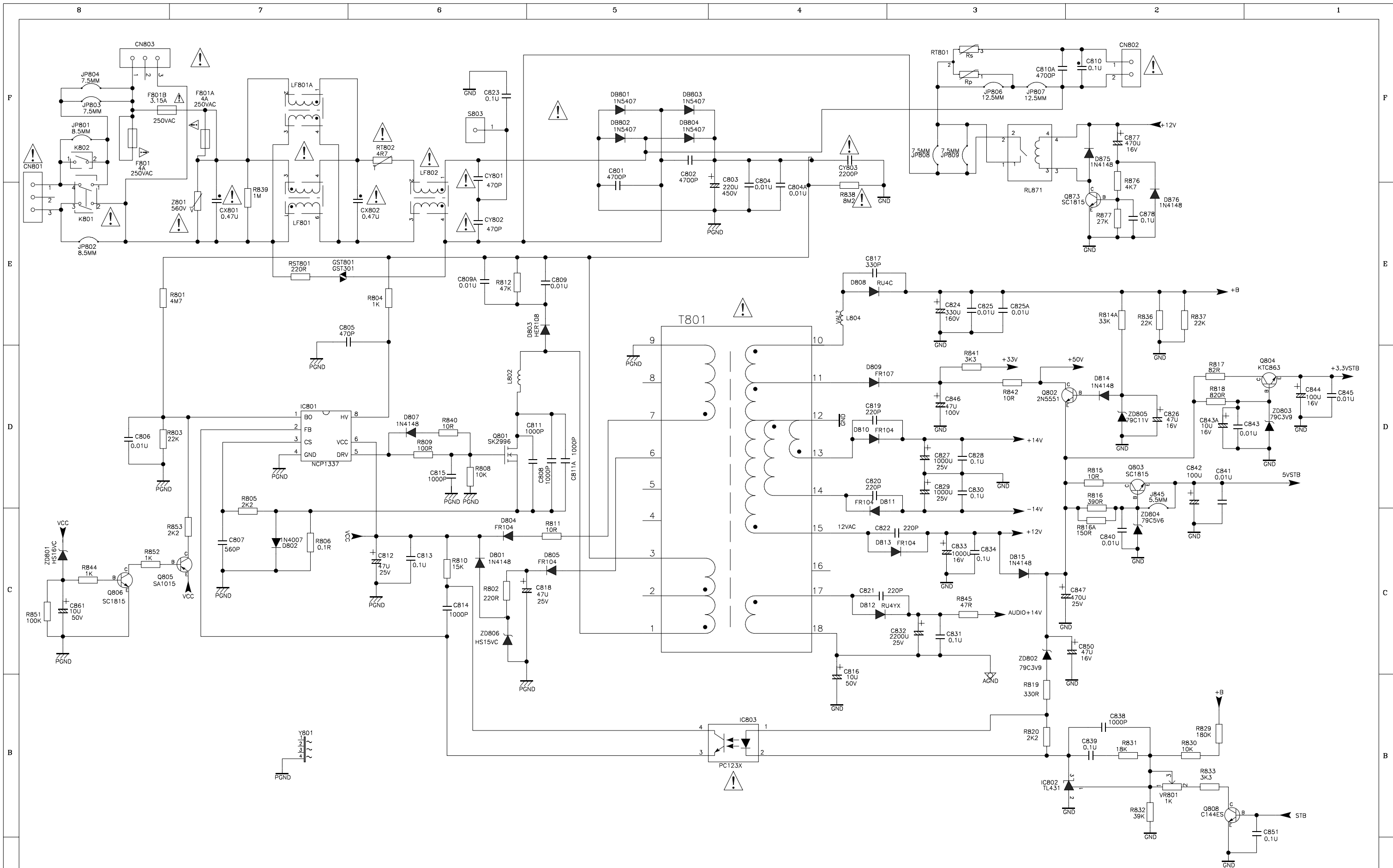




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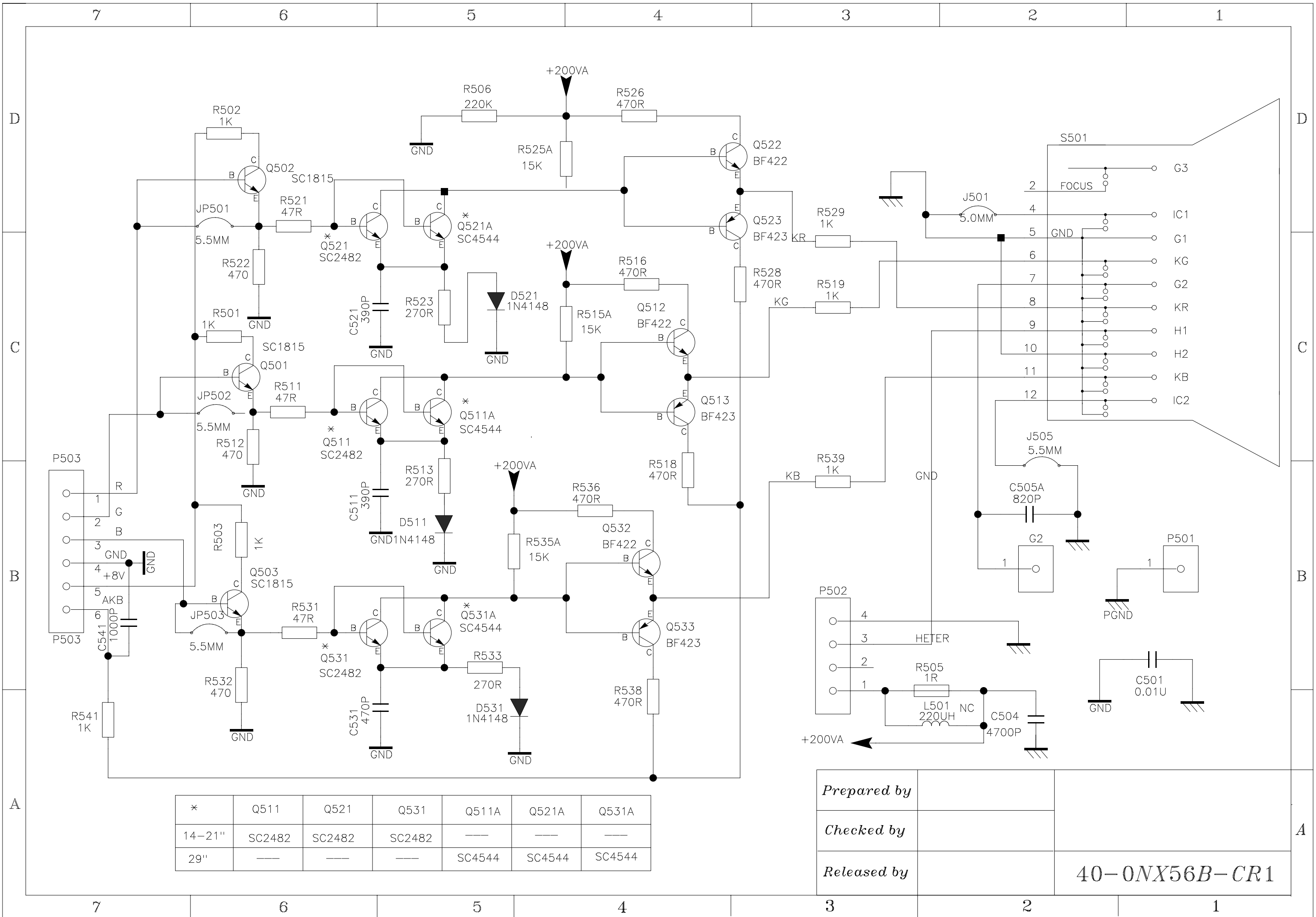


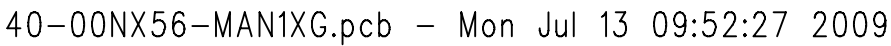
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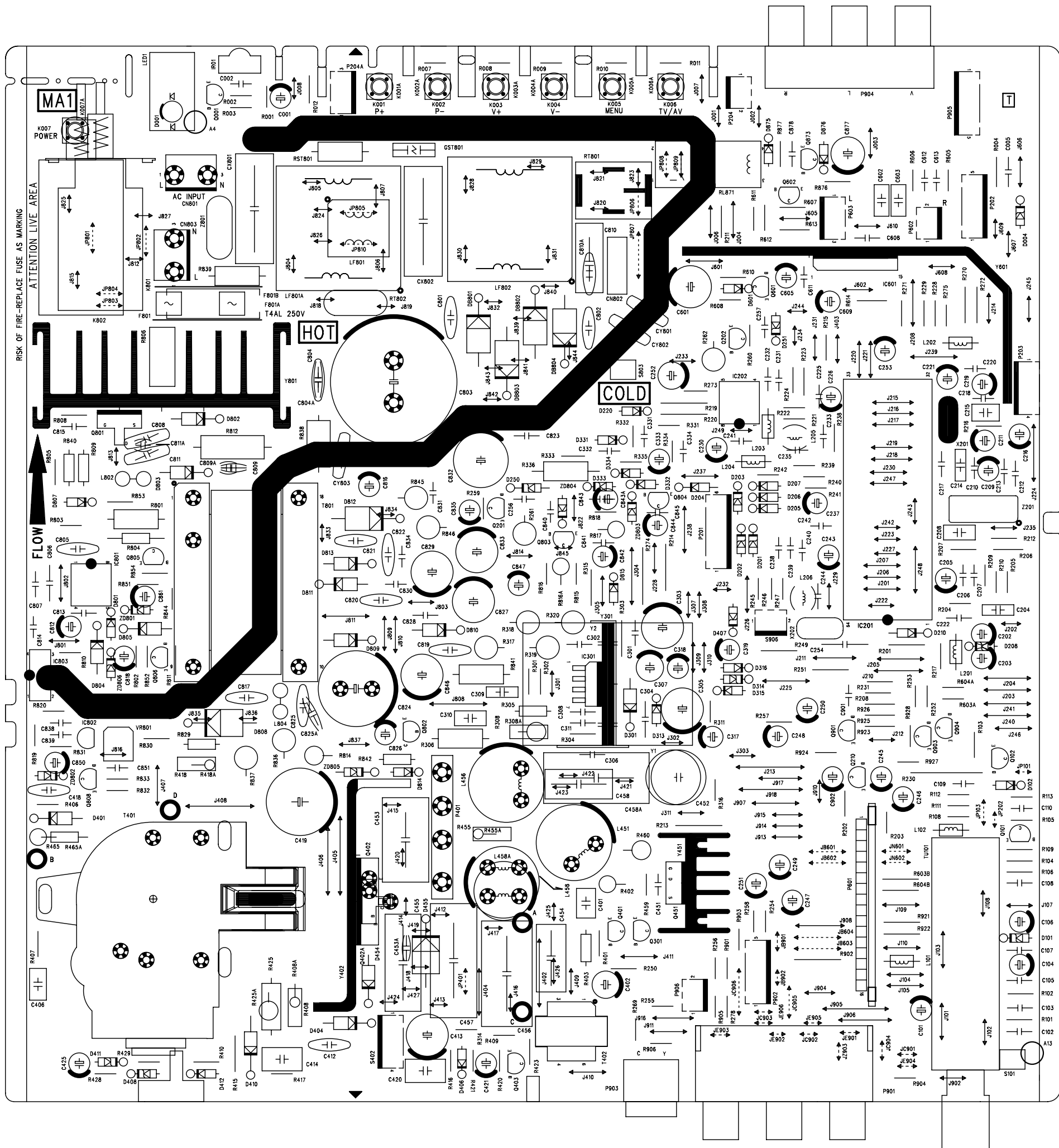
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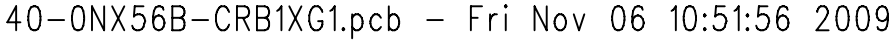
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UOC-TOP-64 N1 series

Versatile signal processor for CRT TV applications

Rev. 0.11 — 25 January 2007

Product data sheet

1. General description

The UOC-TOP-64 series is a very flexible concept which offers attractive solutions for $1f_H$ TV receivers with CRTs. This new concept offers a complete range of products with the right price level to cover TV receivers from basic mono 14 inch sets up to the best featured large and/or wide screen AV-stereo TV sets. The UOC-TOP-64 concept can also be used as front-end for $2f_H$ and LCD TV receivers.

The UOC-TOP-64 concept is mounted in a SDIP64 package and is split up in the following ranges:

- AV-110 (AV-stereo) concept. It contains a video processor with many features and it has an analog audio control circuit with balance, treble, bass and loudness control. Two different micro processor are available for this concept, one with OSD and Closed Captioning or Teletext and Closed Captioning features (UOCTOP_1PTXT version), the other with (extended) OSD features (UOCTOP_OSD version). The block diagram is given in [Figure 1](#).
- AV-90 concept. This concept is nearly identical to the AV-110 concept. The only difference that it does not contain an East-West and Scan Velocity Modulation (SVM) output. This concept is intended for 90° picture tubes.
- Mono-110 concept. The functional content of this concept is comparable with that of the AV 110 concept, however, it has just stereo input switch and no audio control circuit. The block diagram is given in [Figure 1](#).
- Mono-90 concept. This concept is intended for 90° picture tubes. The circuit has an audio switch for mono signals but the mono inputs can also be used as a stereo input. In this range most of the video and audio processing features have been omitted. Also this concept can be supplied with one of the two micro processors (UOCTOP_1PTXT or UOCTOP_OSD version). The block diagram is given in [Figure 2](#).

The most important features of the complete IC series are given in the following feature lists.

All packages are according to the ROHS legislation, which also means that these packages are lead-free. The ICs have supply voltages of 8V, 5V and 3.3V.

UOC-TOP-64 is supported by a comprehensive Global TV Software Development kit to enable easy programming and fast time-to-market (see also [Section 20.4 "Licenses"](#)).

2. Features

2.1 Analog Video Processing

2.1.1 Overview of available features (AV-110/90 and Mono-110 concept)

- Multi-standard vision IF circuit with alignment-free PLL demodulator
- Internal (switchable) time-constant for the IF-AGC circuit
- Switchable group delay correction and sound trap (with switchable centre frequency) for the demodulated CVBS signal
- Separate Second Sound IF output or FM demodulator output without de-emphasis available, which can be used as input for an external BTSC decoder or as input for external sound band-pass filter for second language processing.
- Separate SSIF input available as input for the FM-PLL demodulator to demodulate FM-radio with an IF frequency of 10.7 MHz, or as input from an external sound band-pass filter for second language processing.
- AM demodulator without extra reference circuit
- The mono intercarrier sound circuit has a selective FM-PLL demodulator which can be switched to the different FM sound frequencies (4.5/5.5/6.0/6.5 MHz). The quality of this system is such that the external band-pass filters can be omitted.
- The FM-PLL demodulator can be set to centre frequencies of 4.72/5.74 MHz so that a second sound channel can be demodulated. In such an application it is necessary that an external bandpass filter is inserted.
- Audio switch circuit with 2 stereo inputs (1 stereo input can also be switched into two mono sound inputs) and a stereo output which can be used for the drive of for audio power amplifiers (with volume and tone-control) or as SCART/CINCH output. The second stereo input is only available via the combined C2/C3/C4/AUDIOIN5R pin for the right channel and via the combined CVBS4/Y4/AUDIOIN5L pin for the left channel.
- Video switch with 3 external CVBS inputs. All CVBS inputs can be used as Y-input for Y/C signals. However, only 1 Y/C source can be selected because the circuit has 1 chroma input. CVBS3/Y3 input available in combination with the G/Y-3 input pin.
- 1 CVBS output, this output can be used as monitor video output or as front-end video output or as independent selectable video output.
- Automatic Y/C signal detector.
- Integrated luminance delay line with adjustable delay time
- Only one reference (24.576 MHz) crystal required for the m-Controller, Teletext- and the color decoder
- Multi-standard color decoder with automatic search system and various "forced mode" possibilities
- Internal base-band delay line
- Indication of the Signal-to-Noise ratio of the incoming CVBS signal
- Linear RGB/YP_BP_R input.
- Scan Velocity Modulation output. The SVM circuit is active for all the incoming CVBS, Y/C and RGB/YP_BP_R signals. The SVM output is combined with the black current input of the black current stabilisation circuit. By means of a small application adaptation both functions can be operational in parallel.

- Picture improvement features with peaking (with switchable centre frequency, depeaking, variable positive/negative peak ratio, variable pre-/overshoot ratio and video dependent coring), dynamic skin tone control, gamma control and blue- and black stretching. All features are available for CVBS, Y/C and RGB/YP_BP_R signals
- The effect of the various features can be demonstrated by means of a 'split screen' mode in which the features are activated in one half of the picture and switched off in the other half
- Switchable DC transfer ratio for the luminance signal
- Tint control for external RGB/YP_BP_R signals
- Contrast reduction possibility during mixed-mode of OSD and Text signals. Option to make a colored and in contrast reduced window.
- RGB control circuit with 'Continuous Cathode Calibration', white point and black level off-set adjustment so that the color temperature of the dark and the light parts of the screen can be chosen independently. When this 'Continuous Cathode Calibration' is not used, simple alignment of the cutoff level is possible.
- Adjustable 'wide blanking' of the RGB outputs
- Horizontal synchronization with two control loops and alignment-free horizontal oscillator
- Vertical count-down circuit
- Vertical driver optimized for DC-coupled vertical output stages
- Horizontal and vertical geometry processing with horizontal parallelogram and bow correction and horizontal and vertical zoom
- The IC can be used as front-end for Progressive Scan or LCD TV receivers
- Low-power start-up of the horizontal drive circuit

2.1.2 Features of the AV-110/90 concept which are not available in the Mono-110 concept

- Analog audio tone control circuit with treble, bass and loudness controls

2.1.3 Features of the AV-110 and Mono-110 concept which are not available in the AV-90 concept

- Horizontal geometry processing and Scan Velocity Modulation output

2.1.4 Differences in feature list for the MONO-90 concept compared with AV-110/90 and Mono-110 concept

- Audio switch circuit with 1 stereo input, which can also be switched into two mono sound inputs, a mono output for SCART/CINCH with the possibility to serve as front/monitor audio output.
- Stereo output (with volume and AVL) for audio power amplifiers. This stereo output can also be switched to one mono loudspeaker output and one fixed mono sound output.
- CVBS output, this output can only be used as monitor video output or as front-end video output.
- Only basic video processing. The remaining video features are peaking with coring, black stretching and gamma control.
- No horizontal geometry processing and Scan Velocity Modulation output.

2.2 Micro-Controller

- 80C51 m-controller core standard instruction set and timing
- 0.9766 ms machine cycle
- maximum of 80 k x 8-bit late programmed ROM
- maximum of 3 k x 8-bit Auxiliary RAM
- I²C byte level bus interface.
- Interrupt controller for individual enable/disable with two level priority
- Two 16-bit Timer/Counter registers
- One 24-bit Timer (16-bit timer with 8-bit Pre-scaler)
- 16-bit Data pointer
- WatchDog timer
- Auxiliary RAM page pointer
- Stand-by, Idle and Power Down modes
- Up to 13 general-purpose I/O pins
- 14 bits PWM for Voltage Synthesis Tuning
- 8-bit A/D converter with 4 multiplexed inputs
- 4 PWM (6-bits) outputs for analogue control functions

2.3 Data Capture (Teletext and Closed Caption devices)

- Text memory for 1 page
- Inventory of transmitted Teletext pages stored in the Transmitted Page Table (TPT) and Subtitle Page Table (SPT)
- Data Capture for US Closed Caption
- Data Capture for 525/625 line WST, VPS (PDC system A) and 625 line Wide Screen Signalling (WSS) bit decoding
- Automatic selection between 525 WST/625 WST
- Automatic selection between 625 WST/VPS on line 16 of VBI
- Real-time capture and decoding for WST Teletext in Hardware, to enable optimized m-processor throughput
- Automatic detection of FASTEXT transmission
- Real-time packet 26 engine in Hardware for processing accented, G2 and G3 characters
- Signal quality detector for video and WST/VPS data types
- Comprehensive teletext language coverage
- Vertical Blanking Interval (VBI) data capture of WST data

2.4 Display

2.4.1 Features of the OSD-only devices

- Up to 4 character sets with 256 characters each (size 16 pixels x 18 lines)
- Enhanced OSD modes
- 50Hz/60Hz display timing modes
- Serial and Parallel Display Attributes
- Single/Double Width and Height for characters
- Scrolling of display region
- Variable flash rate controlled by software
- Enhanced display features including overlining, underlining and italics
- Soft colors using CLUT with 4096 color palette
- Global selectable matrix: (12/16)
- By attribute selectable: 1.5x characters (18/24)
- Globally selectable character spacing
- Fringing (Shadow) selectable from N-S-E-W direction
- Fringe color selectable
- Contrast reduction of defined area with option of coloration
- Programmable Cursor
- Special Graphics Characters with two planes, allowing four colors per character

2.4.2 Features of the Teletext and Closed Caption devices

- Four character sets
- Up to 576 characters with a size of 12 pixels x 16 lines are supported
- Teletext and Enhanced OSD modes
- 50Hz/60Hz display timing modes
- Serial and Parallel Display Attributes
- Scrolling of display region
- Variable flash rate controlled by software
- Soft colors using CLUT with 4096 color palette
- Global selectable matrix: (12)
- Features of level 1.5 WST and US Close Caption
- Single/Double/Quadruple Width and Height for characters
- 64 software redefinable On-Screen display characters
- G1 Mosaic graphics, Limited G3 Line drawing characters
- WST Character sets and Closed Caption Character set in single device
- Curtaining effect via software
- Fringing (Shadow) selectable from N-S-E-W direction
- Fringe color selectable
- Contrast reduction of defined area with option of coloration
- Programmable Cursor
- Special Graphics Characters with two planes, allowing four colors per character

3. Quick reference data

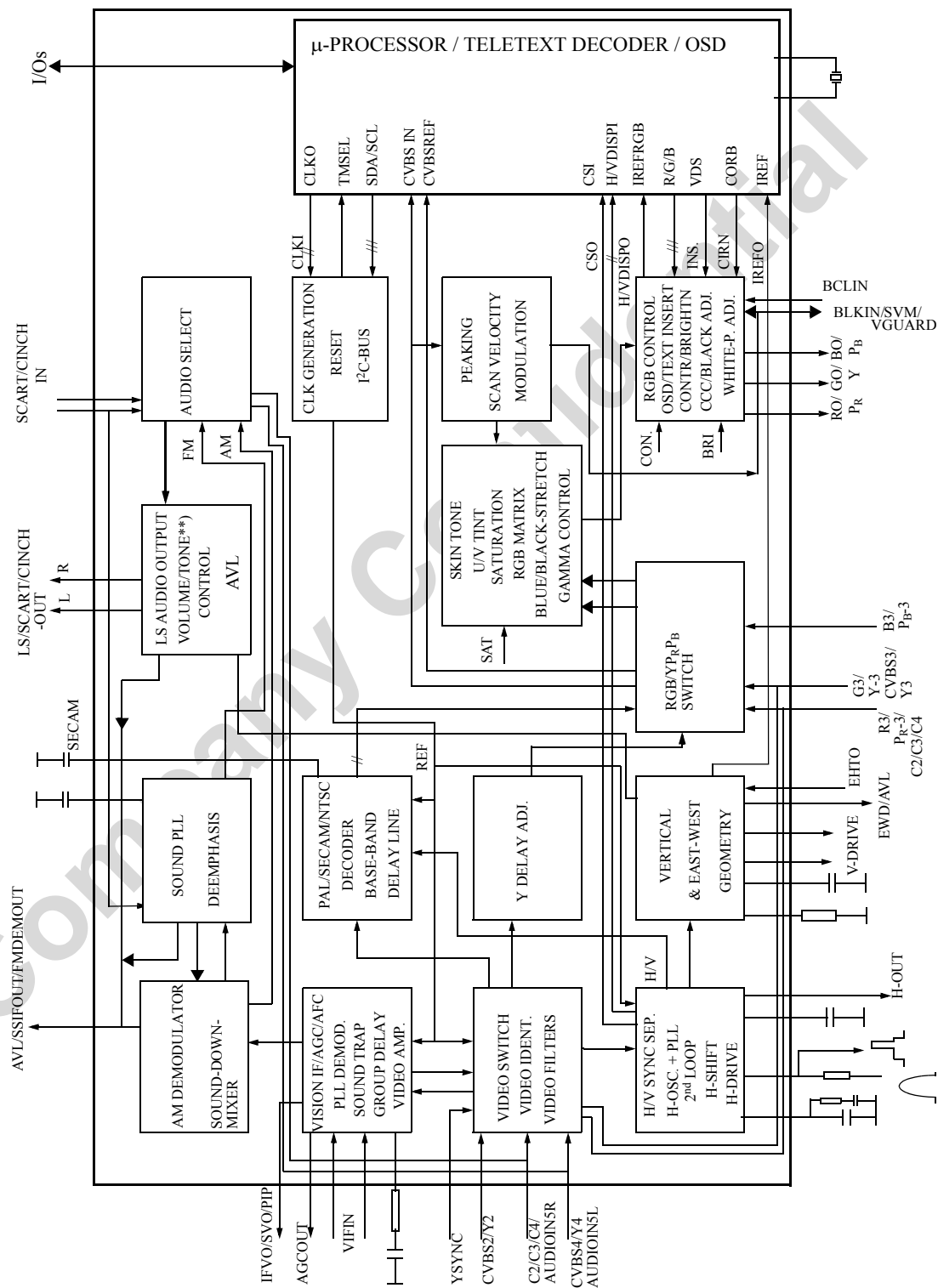
Table 1: Quick reference data

| SYMBOL | PARAMETER | MIN. | TYP. | MAX. | UNIT |
|------------------------------------|--|------|------|------|---------|
| Supply | | | | | |
| V_P | analogue supply voltage VSP | 4.7 | 5.0 | 5.3 | V |
| I_P | supply current (5.0 V) | — | 160 | — | mA |
| V_{DDA} | digital supply VSP / analogue supply periphery | 3.0 | 3.3 | 3.6 | V |
| I_{DDA} | supply current (3.3 V); Mono90 version | — | 50 | — | mA |
| I_{DDA} | supply current (3.3 V); AV110/90 and Mono110 versions | — | 70 | — | mA |
| V_{PAudio} ^[1] | audio supply voltage | 4.7 | 8.0 | 8.4 | V |
| I_{PAudio} ^[1] | supply current (5.0/8.0 V); mono-90 version | — | 0.5 | — | mA |
| I_{PAudio} | supply current (8.0 V); AV-110/90 and mono-110 version | — | 10 | — | mA |
| P_{tot} | total power dissipation | — | — | 1.1 | W |
| Input voltages | | | | | |
| $V_{iVIF(rms)}$ | video IF amplifier sensitivity (RMS value) | — | 75 | 150 | μ V |
| $V_{iSSIF(rms)}$ | sound IF amplifier sensitivity (RMS value) | — | 1.0 | — | mV |
| $V_{iAUDIO(rms)}$ | external audio input (RMS value) | — | 1.0 | 1.3 | V |
| $V_{iCVBS(p-p)}$ | external CVBS/Y input (peak-to-peak value) | — | 1.0 | 1.4 | V |
| $V_{iCHROMA(p-p)}$ | external chroma input voltage (burst amplitude) (peak-to-peak value) | — | 0.3 | 1.0 | V |
| $V_{iRGB(p-p)}$ | RGB inputs (peak-to-peak value) | — | 0.7 | 0.8 | V |
| $V_{iY(p-p)}$ | luminance input signal (peak-to-peak value) | — | 1.0 | — | V |
| $V_{iPB(p-p)}$ | P_B input signal (peak-to-peak value) ^[2] | — | 0.7 | — | V |
| $V_{iPR(p-p)}$ | P_R input signal (peak-to-peak value) ^[2] | — | 0.7 | — | V |
| Output signals | | | | | |
| $V_{o(IFVO)(p-p)}$ | demodulated CVBS output (peak-to-peak value) | — | 2.0 | — | V |
| $V_{o(QSSO)(rms)}$ | sound IF intercarrier output (RMS value) | — | 100 | — | mV |
| $V_{o(AMOUT)(rms)}$ | demodulated AM sound output (RMS value) | — | 250 | — | mV |
| $V_{o(AUDIO)(rms)}$ ^[1] | non-controlled audio output signals (RMS value) | 1.0 | — | — | V |
| $V_{o(CVBSO)(p-p)}$ | selected CVBS output (peak-to-peak value) | — | 2.0 | — | V |
| $I_{o(AGCOUT)}$ | tuner AGC output current range | 0 | — | 1 | mA |
| $V_{oRGB(p-p)}$ | RGB output signal amplitudes (peak-to-peak value) | — | 1.2 | — | V |
| I_{oHOUT} | horizontal output current | 10 | — | — | mA |
| I_{oVERT} | vertical output current (peak-to-peak value) | — | 1 | — | mA |
| I_{oEWD} | EW drive output current | — | — | 1.2 | mA |

[1] The supply voltage for the analogue audio part of the mono-90 version can be 5V or 8V. For a supply voltage of 5V the maximum signal amplitudes at in and outputs are $1V_{rms}$. For a supply voltage of 8V the maximum output signal amplitude is $2V_{rms}$. The AV-110/90 and Mono-110 versions need a supply voltage of 8 V.

[2] The $Y_{PB}P_R$ input signal amplitudes are based on a color bar signal with 100% saturation.

5. Block diagram



**) The mono-110 version has only volume control and no tone control functions

Fig 1. Block diagram of the “AV-110/90” and “MONO-110” TV processor

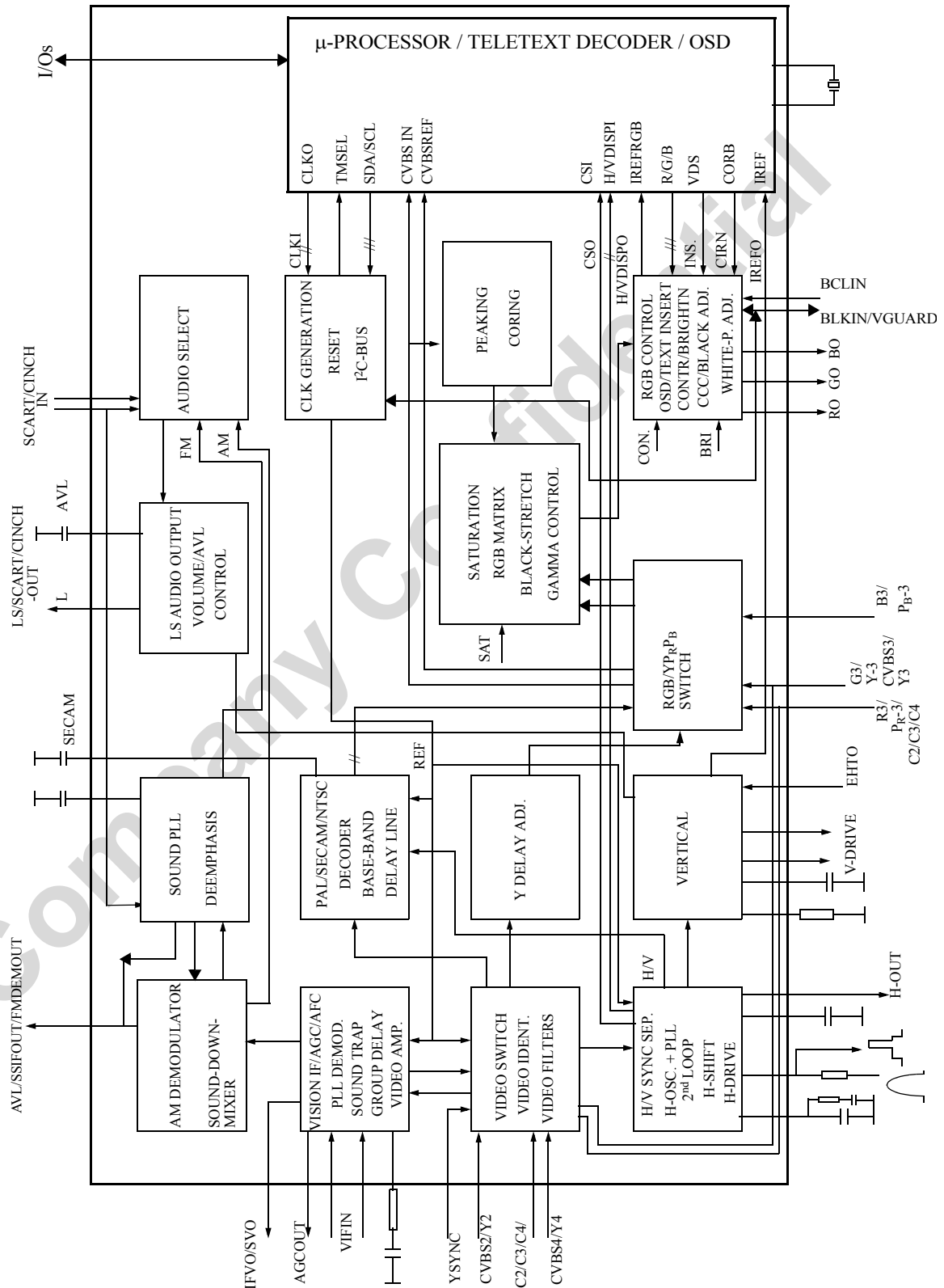


Fig 2. Block diagram of the "MONO-90" TV processor

6. Pinning information

Table 6: Pinning information

| SYMBOL | SDIP64 | | | DESCRIPTION |
|---|--------------------|-------|---------|---|
| | AV-110 Mono-110 | AV-90 | Mono-90 | |
| IFVO/SVO/PIP [3] | 1 | 1 | – | IF video output / selected CVBS output / PIP output |
| IFVO/SVO [3] | – | – | 1 | IF video output / selected CVBS output |
| VP2 | 2 | 2 | 2 | 2 nd supply voltage TV processor (+5 V) |
| VCC8V | 3 | 3 | 3 | 8 Volt supply for audio switches |
| PLLIF | 4 | 4 | 4 | IF-PLL loop filter |
| GND2 | 5 | 5 | 5 | ground 2 for TV processor |
| DECSDEM | 6 | 6 | 6 | decoupling sound demodulator |
| AVL/SSIFOUT/SNDDEMOUT [2] | 7 | 7 | 7 | AVL / Second sound IF output / sound demodulator output |
| EHTO | 8 | 8 | 8 | EHT/overvoltage protection input |
| AGCOUT | 9 | 9 | 9 | tuner AGC output |
| IREF | 10 | 10 | 10 | reference current input |
| VSC | 11 | 11 | 11 | vertical sawtooth capacitor |
| VIFIN2 | 12 | 12 | 12 | IF input 2 |
| VIFIN1 | 13 | 13 | 13 | IF input 1 |
| VDRA | 14 | 14 | 14 | vertical drive A output |
| VDRB | 15 | 15 | 15 | vertical drive B output |
| EWD/AVL | 16 | – | – | East-West drive output / AVL capacitor |
| AVL | – | 16 | 16 | AVL capacitor |
| DECBG | 17 | 17 | 17 | bandgap decoupling |
| SECPLL | 18 | 18 | 18 | SECAM PLL decoupling |
| GND1 | 19 | 19 | 19 | ground 1 for TV-processor |
| PH1LF | 20 | 20 | 20 | phase-1 filter |
| PH2LF | 21 | 21 | 21 | phase-2 filter |
| VP1 | 22 | 22 | 22 | 1 st supply voltage TV-processor (+5 V) |
| DECDIG | 23 | 23 | 23 | decoupling digital supply |
| XTALOUT | 24 | 24 | 24 | crystal oscillator output |
| XTALIN | 25 | 25 | 25 | crystal oscillator input |
| P1.5 | 26 | 26 | 26 | port 1.5 |
| P3.3/ADC3/PWM3 | 27 | 27 | 27 | port 3.3 or ADC3 input or PWM3 output |
| P3.2/ADC2/PWM2 | 28 | 28 | 28 | port 3.2 or ADC2 input or PWM2 output |
| P3.1/ADC1/PWM1 | 29 | 29 | 29 | port 3.1 or ADC1 input or PWM1 output |
| P3.0/ADC0/PWM0 | 30 | 30 | 30 | port 3.0 or ADC0 input or PWM0 output |
| P2.1/PWM0 | 31 | 31 | 31 | port 2.1 or PWM0 output |
| P2.0/TPWM | 32 | 32 | 32 | port 2.0 or Tuning PWM output |
| VDDP(3.3V) | 33 | 33 | 33 | supply to periphery (3.3V) |
| P1.7/SDA | 34 | 34 | 34 | port 1.7 or I ² C-bus data line |
| P1.6/SCL | 35 | 35 | 35 | port 1.6 or I ² C-bus clock line |
| P1.3/T1 | 36 | 36 | 36 | port 1.3 or Counter/Timer 1 input |
| P1.1/T0 | 37 | 37 | 37 | port 1.1 or Counter/Timer 0 input |
| P1.0/INT1 | 38 | 38 | 38 | port 1.0 or external interrupt 1 |
| INT0/P0.5 | 39 | 39 | 39 | external interrupt 0 or port 0.5 (4 mA current sinking capability for direct drive of LEDs) |
| VDDC(3.3V) | 40 | 40 | 40 | supply |

Table 6: Pinning information

| SYMBOL | SDIP64 | | | DESCRIPTION |
|----------------------------------|--------------------|-------|---------|---|
| | AV-110 Mono-110 | AV-90 | Mono-90 | |
| GND5 | 41 | 41 | 41 | ground |
| VPE | 42 | 42 | 42 | OTP Programming Voltage |
| VDDA1(3.3V) | 43 | 43 | 43 | supply voltage |
| BO/PBOUT | 44 | 44 | — | Blue output / P _B output |
| BO | — | — | 44 | Blue output |
| GO/YOUT | 45 | 45 | — | Green output / Y output |
| GO | — | — | 45 | Green output |
| RO/PROUT | 46 | 46 | — | Red output / P _R output |
| RO | — | — | 46 | Red output |
| BLKIN/VGUARD/SVM [1][6] | 47 | — | — | black current input / vertical guard / scan velocity modulation output |
| BLKIN/VGUARD [1][6] | — | 47 | 47 | black current input / vertical guard |
| BCLIN | 48 | 48 | 48 | beam current limiter input |
| B3/P _B 3 | 49 | 49 | 49 | 3 rd B input / P _B input |
| G3/Y3/CVBS3/Y3 [1] | 50 | 50 | 50 | 3 rd G input / Y input / CVBS input / Y input |
| R3/P _R 3/C2/C3/C4 [1] | 51 | 51 | 51 | 3 rd R input / P _R input / C2/3/4 input |
| YOUT | 52 | 52 | 52 | Y-output (for YUV interface) |
| YSYNC | 53 | 53 | 53 | Y-input for sync separator |
| VP3 | 54 | 54 | 54 | supply voltage (5 V) |
| GND3 | 55 | 55 | 55 | ground connection |
| HOUT | 56 | 56 | 56 | horizontal output |
| FBISO/SANDCA | 57 | 57 | 57 | flyback input/sandcastle output |
| AUDOUTSM2/LSR | 58 | 58 | 58 | audio output for audio power amplifier (right signal) or fixed audio output for mono applications |
| AUDOUTLSM1/LSL | 59 | 59 | 59 | audio output for audio power amplifier (left signal) or speaker output for mono applications |
| C2/C3/C4/AUDIOIN5R [1] | 60 | 60 | — | chroma-2/3/4 input / audio 5 right input |
| C2/C3/C4 | — | — | 60 | chroma-2/3/4 input |
| AUDIOIN3/IN1R [5] | 61 | 61 | 61 | audio 3 input / right stereo input |
| CVBS2/Y2 | 62 | 62 | 62 | CVBS2/Y2 input |
| AUDIOIN2/IN1L/SSIF [4][5] | 63 | 63 | 63 | audio 2 input / left stereo input / sound IF input |
| CVBS4/Y4/AUDIOIN5L [1] | 64 | 64 | — | CVBS4/Y4 input / audio 5 left input |
| CVBS4/Y4 | — | — | 64 | CVBS4/Y4 input |

[1] The function of these pins is dependent on some I²C-bus control bits. More details are given in [Table 7](#).

[2] The function of this pin is selected by means of the CMB2-0 bits

[3] The function of this pin is selected by means of the SVO1-0 bits

[4] The SSIF input is selected by means of the SSIFM bit

[5] The choice between two mono inputs or one stereo input is realized by means of the bits SAS3-0

[6] The black current input, vertical guard input and SVM output (AV-110/90 and Mono-110 versions) have been combined on this pin. For a reliable operation of the protection system and the black current stabilization system or SVM system, the end of the vertical guard protection pulse during normal operation should not overlap the measuring pulses. Therefore this pulse must end before line 14.

Vertical Deflection Booster for 3-App TV/Monitor Applications with 75-V Flyback Generator

PRODUCT PREVIEW

Main Features

- Power Amplifier
- Flyback Generator
- Stand-by Control
- Output Current up to 3 App
- Thermal Protection

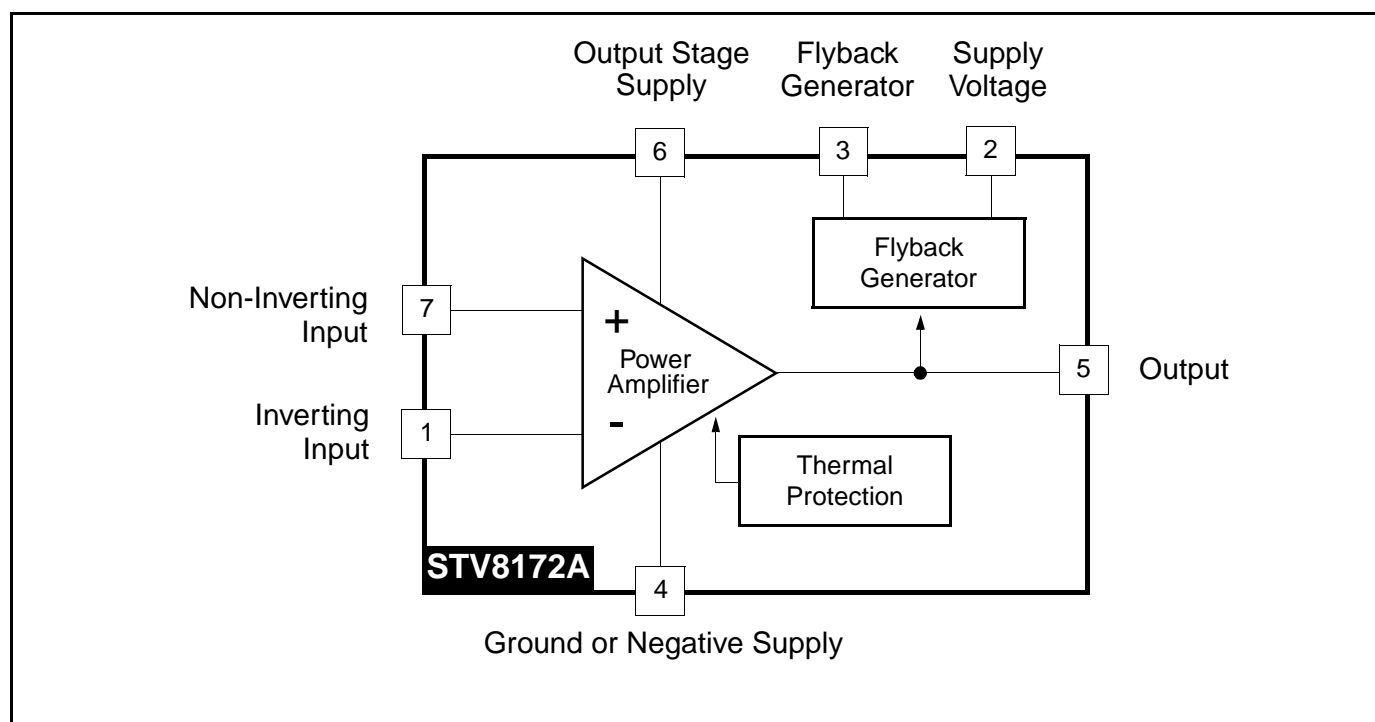
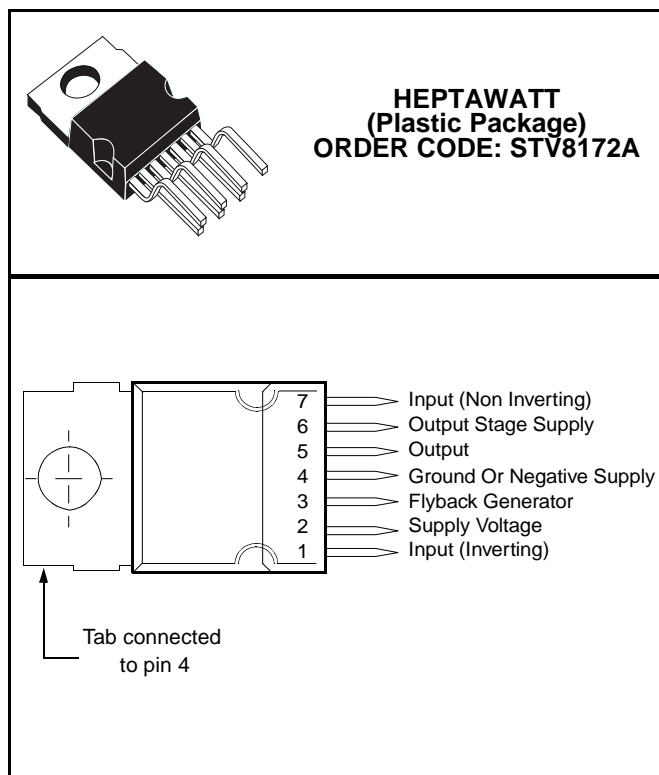
Description

The STV8172A is a vertical deflection booster designed for TV and monitor applications.

This device, supplied with up to 35 V, provides up to 2.5 App output current to drive the vertical deflection yoke.

The internal flyback generator delivers flyback voltages up to 75 V.

In double-supply applications, a stand-by state will be reached by stopping the (+) supply alone.



1 Absolute Maximum Ratings

| Symbol | Parameter | Value | Unit |
|---------------------------|--|-------------------------------|-------------|
| Voltage | | | |
| V_S | Supply Voltage (pin 2) - Note 1 and Note 2 | 40 | V |
| V_5, V_6 | Flyback Peak Voltage - Note 2 | 70 | V |
| V_3 | Voltage at Pin 3 - Note 2 , Note 3 and Note 6 | -0.4 to ($V_S + 3$) | V |
| V_1, V_7 | Amplifier Input Voltage - Note 2 , Note 6 and Note 7 | - 0.4 to ($V_S + 2$) or +40 | V |
| Current | | | |
| $I_0(1)$ | Output Peak Current at $f = 50$ to 200 Hz, $t \leq 10\mu s$ - Note 4 | ± 5 | A |
| $I_0(2)$ | Output Peak Current non-repetitive - Note 5 | ± 2 | A |
| I_3 Sink | Sink Current, $t < 1ms$ - Note 3 | 2 | A |
| I_3 Source | Source Current, $t < 1ms$ | 2 | A |
| I_3 | Flyback pulse current at $f=50$ to 200 Hz, $t \leq 10\mu s$ - Note 4 | ± 5 | A |
| ESD Susceptibility | | | |
| ESD1 | Human body model (100 pF discharged through 1.5 k Ω) | 2 | kV |
| ESD2 | EIAJ Standard (200 pF discharged through 0 Ω) | 300 | V |
| Temperature | | | |
| T_s | Storage Temperature | -40 to 150 | $^{\circ}C$ |
| T_j | Junction Temperature | +150 | $^{\circ}C$ |

Note:1. Usually the flyback voltage is slightly more than $2 \times V_S$. This must be taken into consideration when setting V_S .

2. Versus pin 4
3. V_3 is higher than V_S during the first half of the flyback pulse.
4. Such repetitive output peak currents are usually observed just before and after the flyback pulse.
5. This non-repetitive output peak current can be observed, for example, during the Switch-On/Switch-Off phases. This peak current is acceptable providing the SOA is respected ([Figure 8](#) and [Figure 9](#)).
6. All pins have a reverse diode towards pin 4, these diodes should never be forward-biased.
7. Input voltages must not exceed the lower value of either $V_S + 2$ or 40 volts.

2 Thermal Data

| Symbol | Parameter | Value | Unit |
|------------|---------------------------------------|-------|---------------|
| R_{thJC} | Junction-to-Case Thermal Resistance | 3 | $^{\circ}C/W$ |
| T_T | Temperature for Thermal Shutdown | 150 | $^{\circ}C$ |
| T_J | Recommended Max. Junction Temperature | 120 | $^{\circ}C$ |

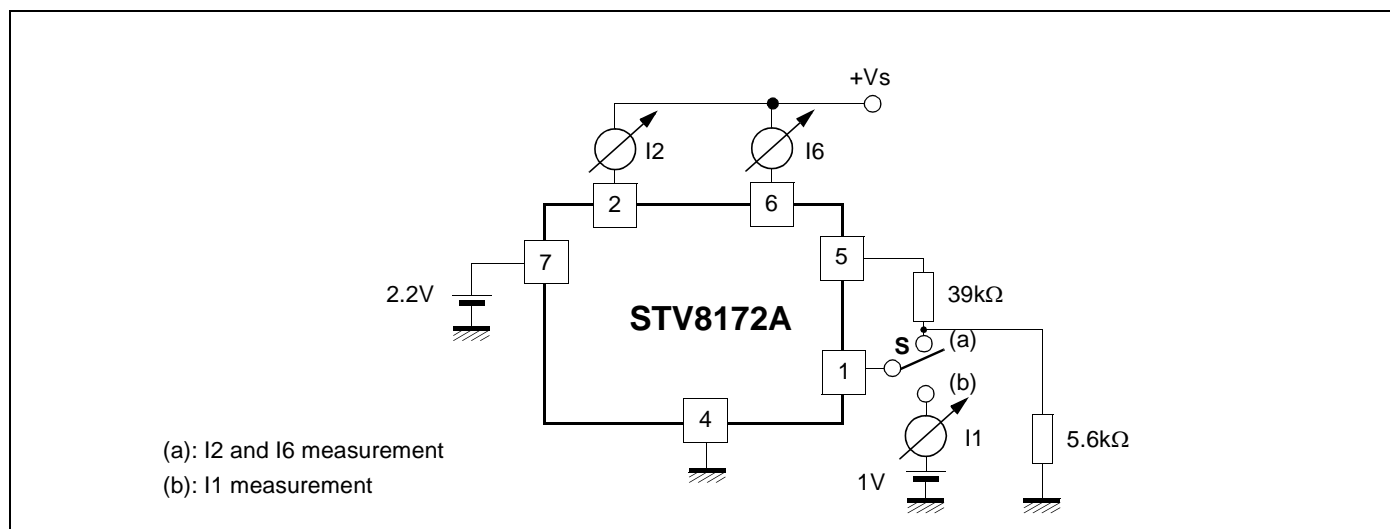
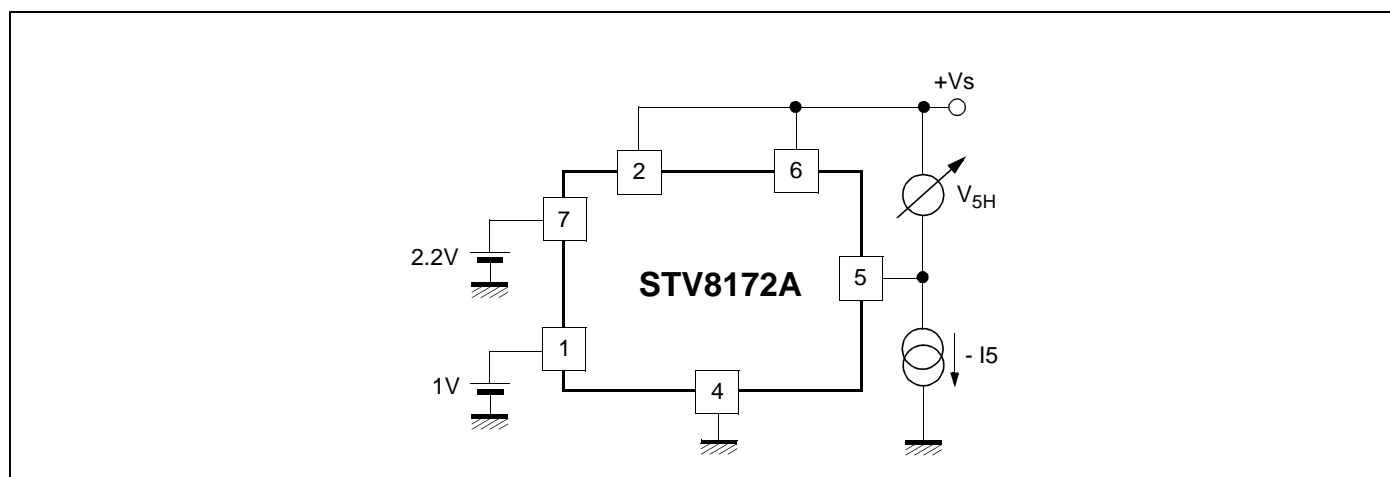
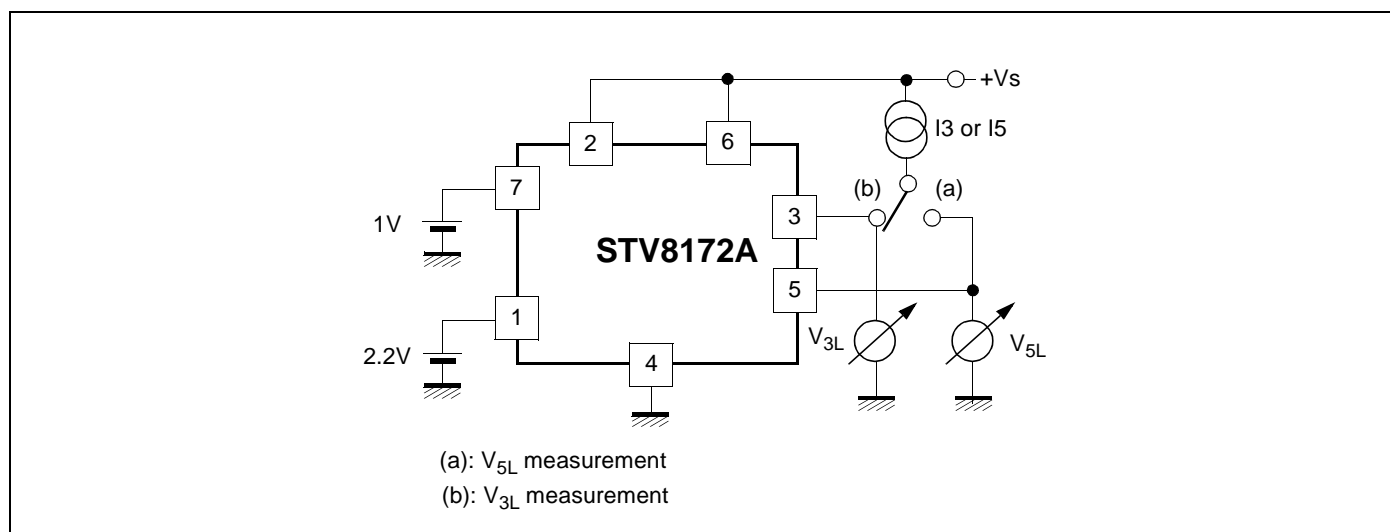
3 Electrical Characteristics

($V_S = 34\text{ V}$, $T_{AMB} = 25^\circ\text{C}$, unless otherwise specified)

| Symbol | Parameter | Test Conditions | Min. | Typ. | Max. | Unit | Fig. |
|----------------------|---|--|-----------|-------|-----------|------------------------------|------|
| Supply | | | | | | | |
| V_S | Operating Supply Voltage Range (V_2 - V_4) | Note 8 | 10 | | 35 | V | |
| I_2 | Pin 2 Quiescent Current | $I_3 = 0$, $I_5 = 0$ | | 5 | 20 | mA | 1 |
| I_6 | Pin 6 Quiescent Current | $I_3 = 0$, $I_5 = 0$, $V_6 = 35\text{V}$ | 8 | 19 | 50 | mA | 1 |
| Input | | | | | | | |
| I_1 | Input Bias Current | $V_1 = 1\text{ V}$, $V_7 = 2.2\text{ V}$ | | - 0.6 | -1.5 | μA | 1 |
| I_7 | Input Bias Current | $V_1 = 2.2\text{ V}$, $V_7 = 1\text{ V}$ | | - 0.6 | -1.5 | μA | |
| V_{IR} | Operating Input Voltage Range | | 0 | | $V_S - 2$ | V | |
| V_{IO} | Offset Voltage | | | 2 | | mV | |
| $\Delta V_{IO}/dt$ | Offset Drift versus Temperature | | | 10 | | $\mu\text{V}/^\circ\text{C}$ | |
| Output | | | | | | | |
| I_O | Operating Peak Output Current | $0^\circ < T_{case} < 125^\circ\text{C}$ | | | ± 1.5 | A | |
| V_{5L} | Output Saturation Voltage to pin 4 | $I_5 = 1.5\text{ A}$ | | 1 | 1.7 | V | 3 |
| V_{5H} | Output Saturation Voltage to pin 6 | $I_5 = -1.5\text{ A}$ | | 1.8 | 2.3 | V | 2 |
| Stand-by | | | | | | | |
| V_{5STBY} | Output Voltage in Stand-by | $V_1 = V_7 = V_S = 0$ See Note 9 | $V_S - 2$ | | | V | |
| Miscellaneous | | | | | | | |
| G | Voltage Gain | | 80 | | | dB | |
| V_{D5-6} | Diode Forward Voltage Between pins 5-6 | $I_5 = 1.5\text{ A}$ | | 1.8 | 2.3 | V | |
| V_{D3-2} | Diode Forward Voltage between pins 3-2 | $I_3 = 1.5\text{ A}$ | | 1.6 | 2.2 | V | |
| V_{3SL} | Saturation Voltage on pin 3 | $I_3 = 20\text{ mA}$ | | 0.4 | 1 | V | 3 |
| V_{3SH} | Saturation Voltage to pin 2 (2nd part of flyback) | $I_3 = -1.5\text{ A}$ | | 2.1 | 2.8 | V | |

8. In normal applications, the peak flyback voltage is slightly greater than $2 \times (V_S - V_4)$. Therefore, ($V_S - V_4$) = 35 V is not allowed without special circuitry.

9. Refer to Figure 4, Stand-by condition.

Figure 1: Measurement of I_1 , I_2 and I_6 Figure 2: Measurement of V_{5H} Figure 3: Measurement of V_{3L} and V_{5L} 

4 Application Hints

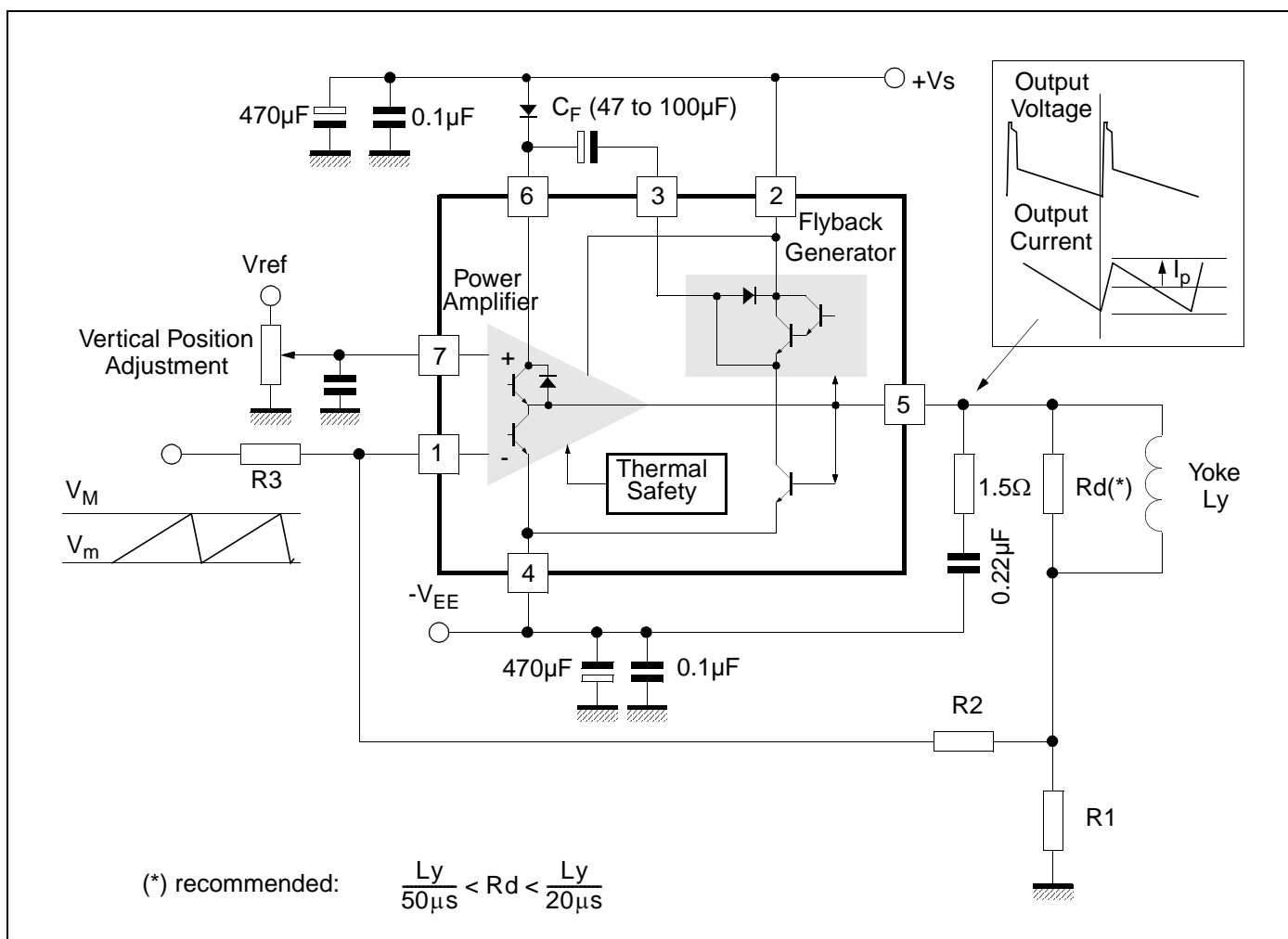
The yoke can be coupled either in AC or DC.

4.1 DC-coupled Application

When DC coupled (see Figure 4), the display vertical position can be adjusted with input bias. On the other hand, 2 supply sources (V_S and $-V_{EE}$) are required.

A Stand-by state will be reached by switching OFF the positive supply alone. In this state, where both inputs are the same voltage as pin 2 or higher, the output will sink negligible current from the deviation coil.

Figure 4: DC-coupled Application



4.1.1 Application Hints

For calculations, treat the IC as an op-amp, where the feedback loop maintains $V_1 = V_7$.

4.1.1.1 Centering

Display will be centered (null mean current in yoke) when voltage on pin 7 is (R_1 is negligible):

$$V_7 = \frac{V_M + V_m}{2} \times \left(\frac{R_2}{R_2 + R_3} \right)$$

4.1.1.2 Peak Current

$$I_P = \frac{(V_M - V_m)}{2} \times \frac{R_2}{R_1 \times R_3}$$

Example: for $V_m = 2\text{ V}$, $V_M = 5\text{ V}$ and $I_P = 1\text{ A}$

Choose R_1 in the $1\text{ }\Omega$ range, for instance $R_1 = 1\text{ }\Omega$

From equation of peak current:
$$\frac{R_2}{R_3} = \frac{2 \times I_P \times R_1}{V_M - V_m} = \frac{2}{3}$$

Then choose R_2 or R_3 . For instance, if $R_2 = 10\text{ k}\Omega$, then $R_3 = 15\text{ k}\Omega$

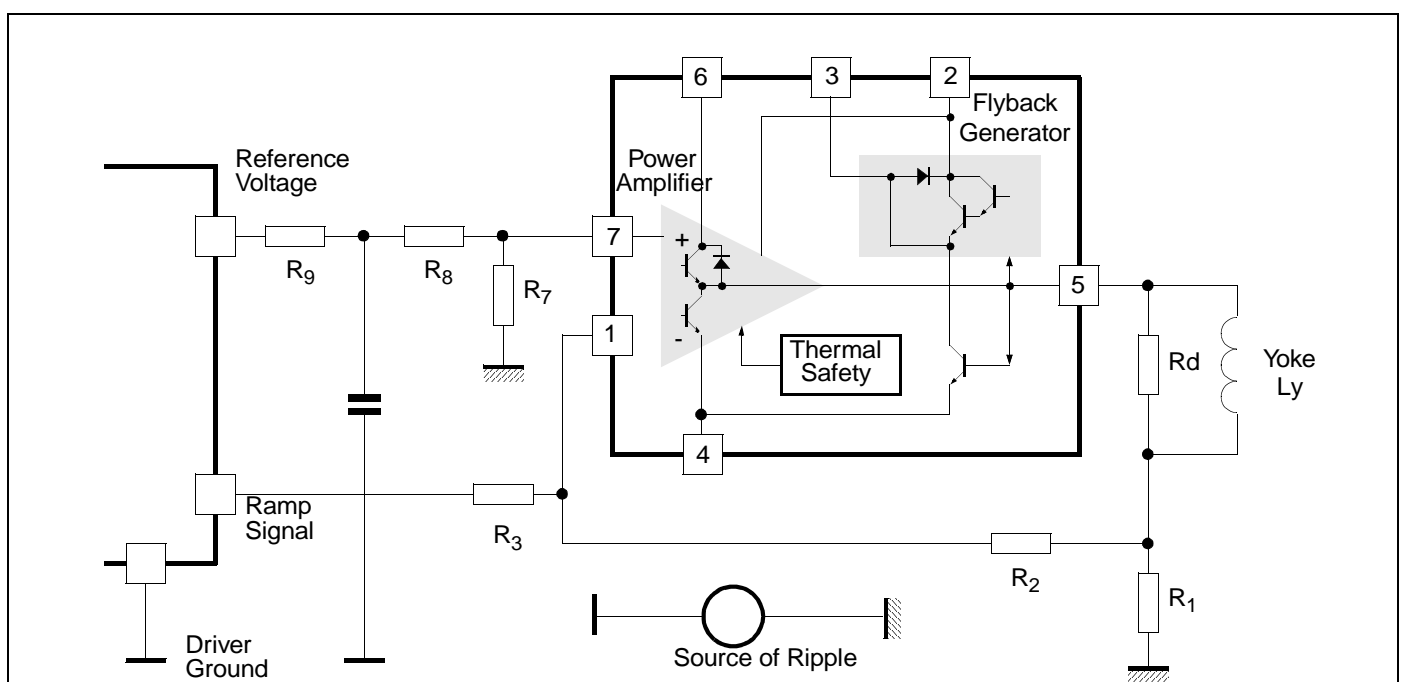
Finally, the bias voltage on pin 7 should be:

$$V_7 = \frac{V_M + V_m}{2} \times \frac{1}{\frac{R_3}{1 + \frac{R_2}{R_3}}} = \frac{7}{2} \times \frac{1}{2.5} = 1.4\text{ V}$$

4.1.2 Ripple Rejection

When both ramp signal and bias are provided by the same driver IC, you can gain natural rejection of any ripple caused by a voltage drop in the ground (see [Figure 5](#)), if you manage to apply the same fraction of ripple voltage to both booster inputs. For that purpose, arrange an intermediate point in the bias resistor bridge, such that $(R_8 / R_7) = (R_3 / R_2)$, and connect the bias filtering capacitor between the intermediate point and the local driver ground. Of course, R_7 should be connected to the booster reference point, which is the ground side of R_1 .

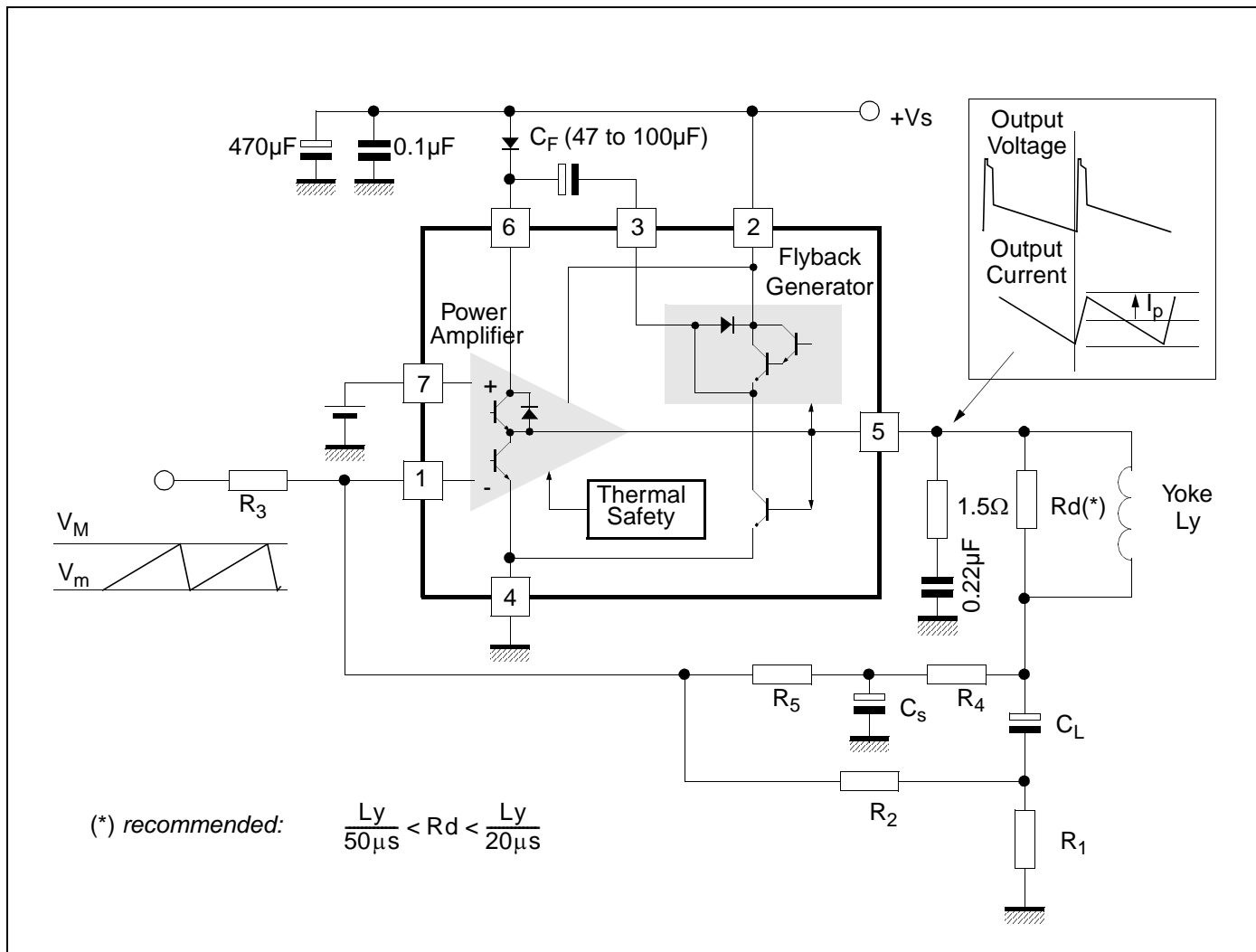
Figure 5: Ripple Rejection



4.2 AC-Coupled Applications

In AC-coupled applications (See Figure 6), only one supply (V_S) is needed. The vertical position of the scanning cannot be adjusted with input bias (for that purpose, usually some current is injected or sunk with a resistor in the low side of the yoke).

Figure 6: AC-coupled Application



4.2.1 Application Hints

Gain is defined as in the previous case:

$$I_p = \frac{V_M - V_m}{2} \times \frac{R_2}{R_1 \times R_3}$$

Choose R_1 then either R_2 or R_3 . For good output centering, V_7 must fulfill the following equation:

$$\frac{\frac{V_S}{2} - V_7}{R_4 + R_5} = \frac{V_7 - \frac{V_M + V_m}{2}}{R_3} + \frac{V_7}{R_2}$$

or

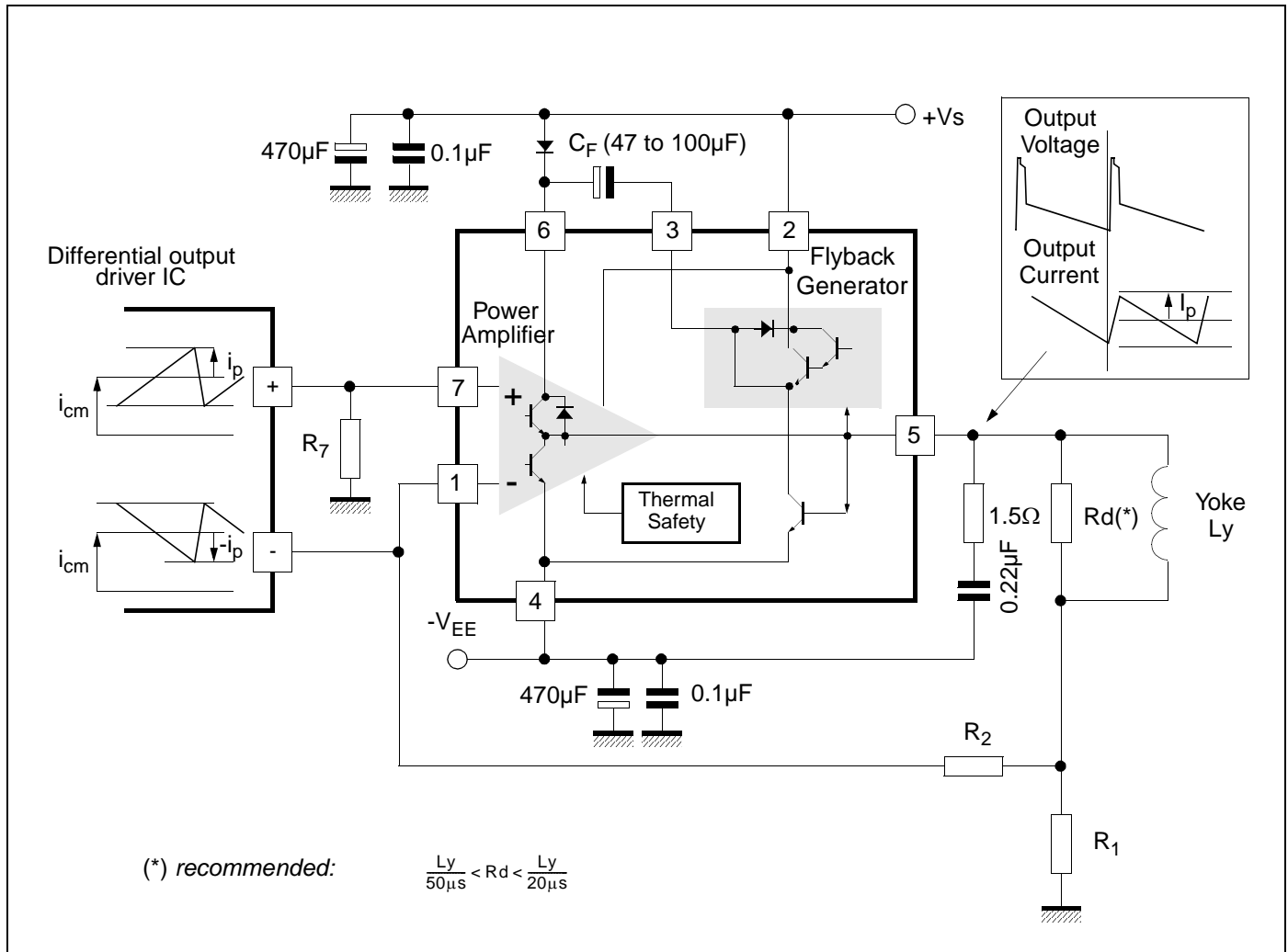
$$V_7 \times \left(\frac{1}{R_3} + \frac{1}{R_2} + \frac{1}{R_4 + R_5} \right) = \left(\frac{V_S}{2(R_4 + R_5)} + \frac{V_M + V_m}{2 \times R_3} \right)$$

C_S performs an integration of the parabolic signal on C_L , therefore the amount of S correction is set by the combination of C_L and C_S .

4.3 Application with Differential-output Drivers

Certain driver ICs provide the ramp signal in differential form, as two current sources i_+ and i_- with opposite variations.

Figure 7: Using a Differential-output Driver



Let us set some definitions:

- i_{cm} is the common-mode current: $i_{cm} = \frac{1}{2}(i_+ + i_-)$
- at peak of signal, $i_+ = i_{cm} + i_p$ and $i_- = i_{cm} - i_p$, therefore the peak differential signal is $i_p - (-i_p) = 2 i_p$, and the peak-peak differential signal, $4i_p$.

The application is described in Figure 7 with DC yoke coupling. The calculations still rely on the fact that V_1 remains equal to V_7 .

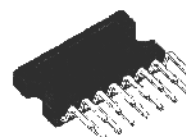


TDA7266SA

7W+7W DUAL BRIDGE AMPLIFIER

- WIDE SUPPLY VOLTAGE RANGE (3.5-18V)
- MINIMUM EXTERNAL COMPONENTS
 - NO SWR CAPACITOR
 - NO BOOTSTRAP
 - NO BOUCHEROT CELLS
 - INTERNALLY FIXED GAIN
- STAND-BY & MUTE FUNCTIONS
- SHORT CIRCUIT PROTECTION
- THERMAL OVERLOAD PROTECTION

TECHNOLOGY Bi20II



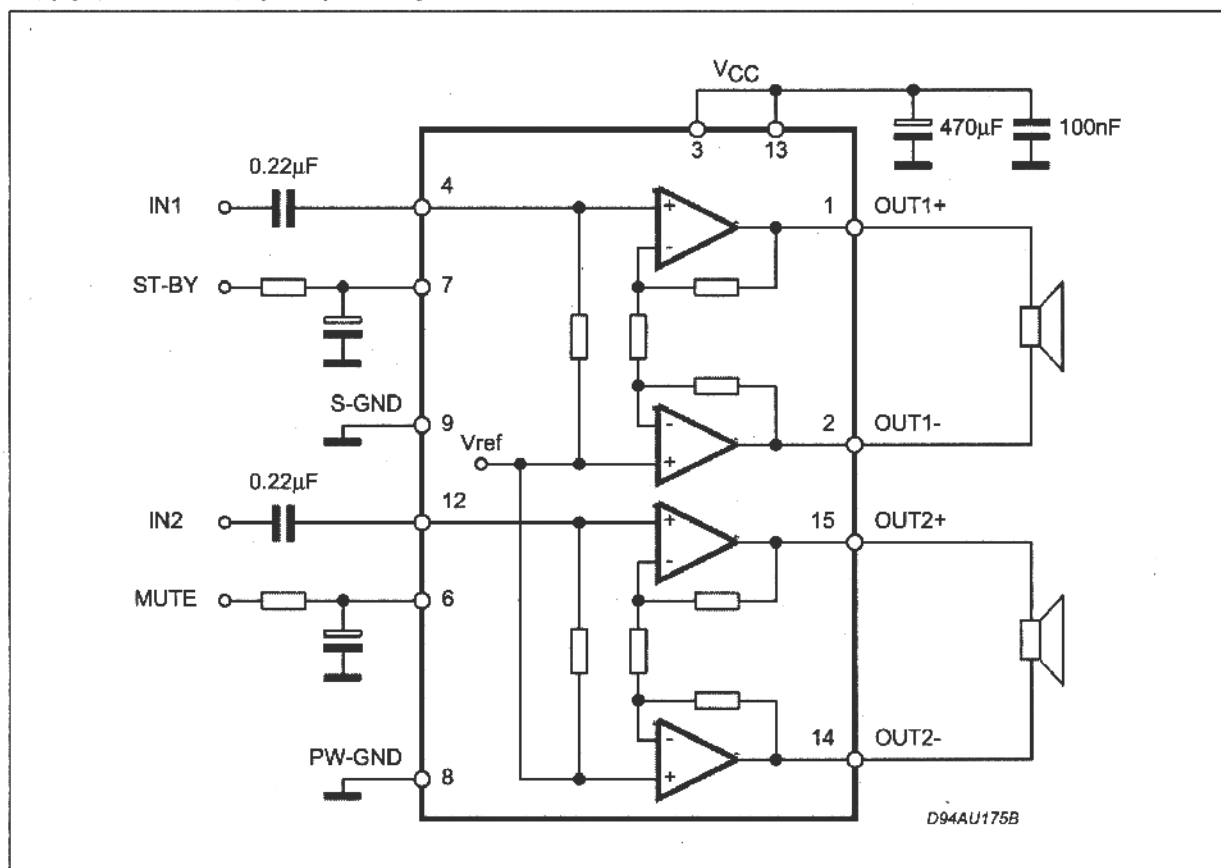
CLIPWATT15
ORDERING NUMBER: TDA7266SA

DESCRIPTION

The TDA7266SA is a dual bridge amplifier specially designed for LCD Monitor, PC Motherboard, TV and Portable Radio applications.

Pin to pin compatible with: TDA7266S, TDA7266, TDA7266M, TDA7266MA, TDA7266B, TDA7297SA & TDA7297.

BLOCK AND APPLICATION DIAGRAM



TDA7266SA

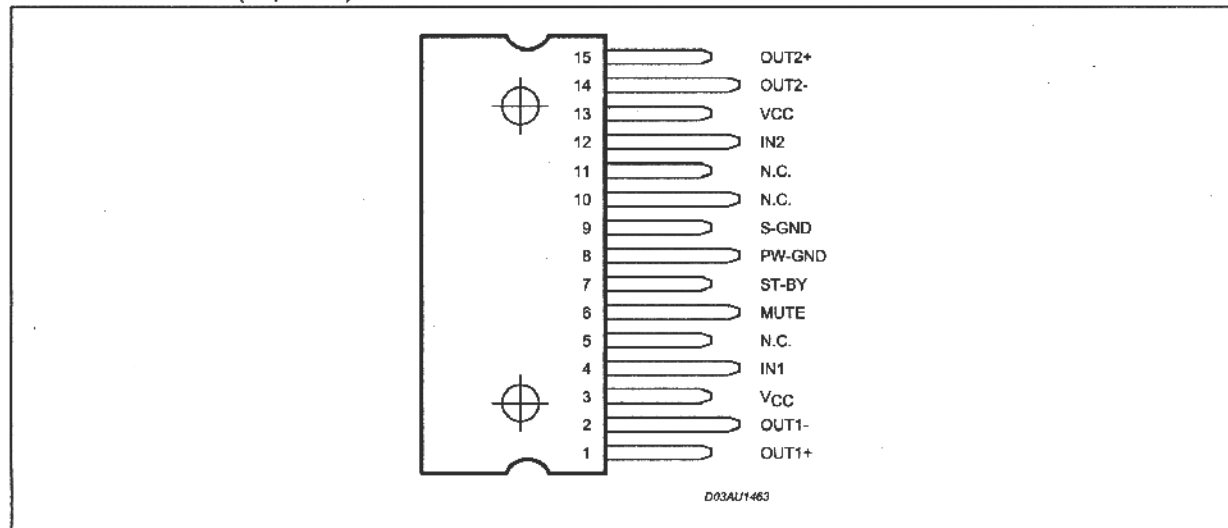
ABSOLUTE MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
|----------------|--|------------|------|
| V_s | Supply Voltage | 20 | V |
| I_o | Output Peak Current (internally limited) | 2 | A |
| T_{op} | Operating Temperature | 0 to 70 | °C |
| T_{stg}, T_j | Storage and Junction Temperature | -40 to 150 | °C |

THERMAL DATA

| Symbol | Parameter | Value | Unit |
|------------------|----------------------------------|-------|------|
| $R_{th\ j-case}$ | Thermal Resistance Junction-case | 3 | °C/W |

PIN CONNECTION (Top view)



ELECTRICAL CHARACTERISTICS

($V_{CC} = 11V$, $R_L = 8\Omega$, $f = 1KHz$, $T_{amb} = 25^\circ C$ unless otherwise specified)

| Symbol | Parameter | Test Condition | Min. | Typ. | Max. | Unit |
|--------------|---------------------------|--|------|------|------|------|
| V_{CC} | Supply Range | | 3 | 11 | 18 | V |
| I_q | Total Quiescent Current | | | 50 | 65 | mA |
| V_{OS} | Output Offset Voltage | | | | 120 | mV |
| P_o | Output Power | THD 10% | 6.3 | 6 | | W |
| THD | Total Harmonic Distortion | $P_o = 1W$ | | 0.05 | 0.2 | % |
| | | $P_o = 0.1W$ to $2W$ $f = 100Hz$ to $15KHz$ | | | 1 | % |
| SVR | Supply Voltage Rejection | $f = 100Hz$, $V_R = 0.5V$ | 40 | 56 | | dB |
| CT | Crosstalk | | 46 | 60 | | dB |
| A_{MUTE} | Mute Attenuation | | 60 | 80 | | dB |
| T_w | Thermal Threshold | | | 150 | | °C |
| G_v | Closed Loop Voltage Gain | | 25 | 26 | 27 | dB |
| ΔG_v | Voltage Gain Matching | | | | 0.5 | dB |

ELECTRICAL CHARACTERISTICS (continued)(V_{CC} = 11V, R_L = 8Ω, f = 1KHz, T_{amb} = 25°C unless otherwise specified)

| Symbol | Parameter | Test Condition | Min. | Typ. | Max. | Unit |
|----------------------|------------------------------------|--|-----------------------|-------------------------|-------------------------|------|
| R _i | Input Resistance | | 25 | 30 | | KΩ |
| V _{T MUTE} | Mute Threshold | for V _{CC} > 6.4V; V _o = -30dB | 2.3 | 2.9 | 4.1 | V |
| | | for V _{CC} < 6.4V; V _o = -30dB | V _{CC} /2 -1 | V _{CC} /2 -075 | V _{CC} /2 -0.5 | V |
| V _{T ST-BY} | St-by Threshold | | 0.8 | 1.3 | 1.8 | V |
| I _{ST-BY} | St-by Current V ₆ = GND | | | | 100 | μA |
| e _N | Total Output Voltage | A Curve; f = 20Hz to 20KHz | | 150 | | μV |

APPLICATION SUGGESTION**STAND-BY AND MUTE FUNCTIONS****(A) Microprocessor Application**

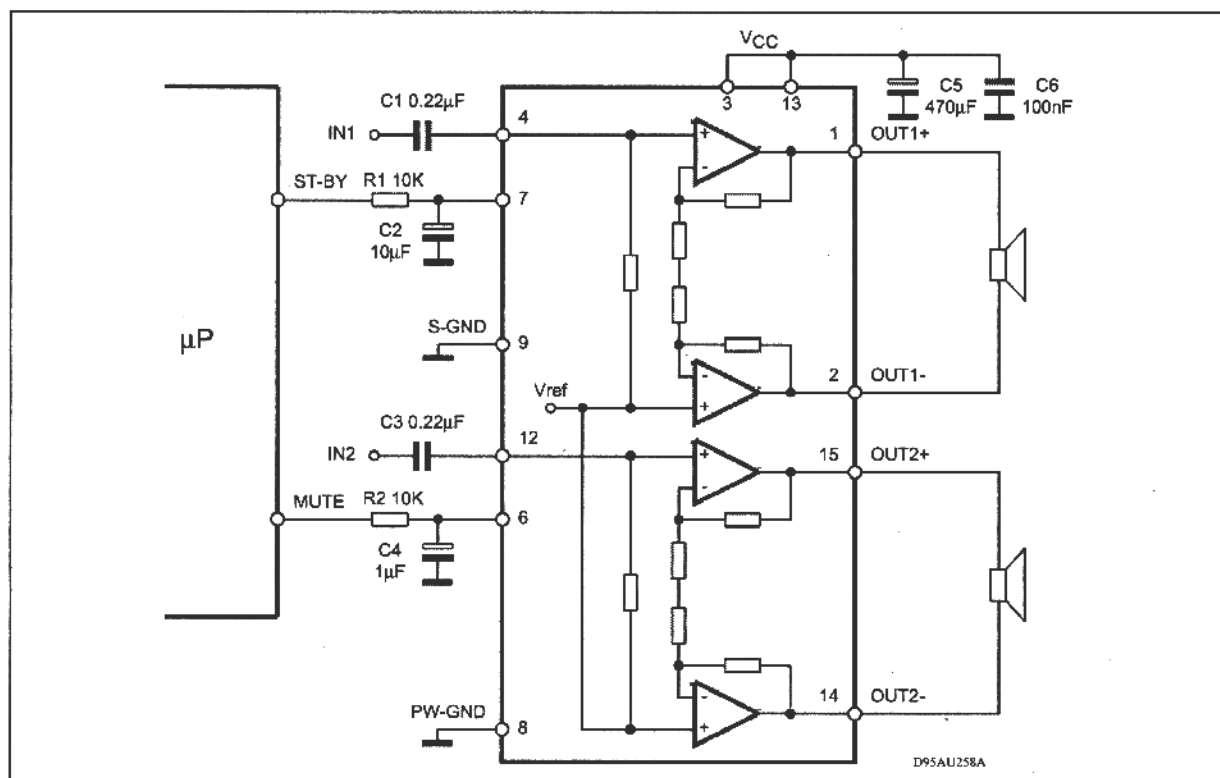
In order to avoid annoying "Pop-Noise" during Turn-On/Off transients, it is necessary to guarantee the right St-by and mute signals sequence. It is quite simple to obtain this function using a microprocessor (Fig. 1 and 2).

At first St-by signal (from μP) goes high and the voltage across the St-by terminal (Pin 7) starts to increase exponentially. The external RC network is intended to turn-on slowly the biasing circuits of the amplifier, this to avoid "POP" and "CLICK" on the outputs.

When this voltage reaches the St-by threshold level, the amplifier is switched-on and the external capacitors in series to the input terminals (C3, C53) start to charge.

It's necessary to maintain the mute signal low until the capacitors are fully charged, this to avoid that the device goes in play mode causing a loud "Pop Noise" on the speakers.

A delay of 100-200ms between St-by and mute signals is suitable for a proper operation.

Figure 1. Microprocessor Application

| | | | |
|--------------------|------------------|--|-----------------------|
| 2009.11.10 | | | |
| MATERIAL BOM PRINT | | | |
| MATERIAL NO. : | | 03-BM62SAE-CL12S | |
| MATERIAL NAME: | | FORCAST BOM | |
| WERK:1034 | | BOM APPLICATION:PP01 | |
| parent | child | description | BOM text |
| 03-BM62SAE-CL12S | T6-016W31-AAT1X | TV ASY - REMOTE 016W31-A012X LOGO:RCA | |
| T6-016W31-AAT1X | 06-016W31-A012X | RCT NX56&NX56B JY-T03101-018 | |
| 03-BM62SAE-CL12S | T8-29M62AE-FC4 | ASS'Y - FRONT CABINETASY | |
| T8-29M62AE-FC4 | 41-GND029-LX0 | B121 | |
| T8-29M62AE-FC4 | 36-DEG290-XX2L | DEGAUSSING COIL XC-29" | |
| T8-29M62AE-FC4 | 42-61608F-XX1G | SPEAKER YDP616-5A | SP601 |
| T8-29M62AE-FC4 | 42-61608F-XX1G | SPEAKER YDP616-5A | SP602 |
| T8-29M62AE-FC4 | 46-35197H-02XG | HS 2P22 700/7 TJC3-2Y | S601A TO R SPK |
| T8-29M62AE-FC4 | 46-CT048T-03H01G | HS 3PIN TCL1073 | S602 TO L SPK |
| T8-29M62AE-FC4 | 54-113970-0U0 | TV RAW INSULATOR SLEEVE AWG#5 -- 00 00 R | FOR SPEAKER WIRE |
| T8-29M62AE-FC4 | 54-205140-000 | SPACER CRT MOUNTING T=2MM | MTG CRT & FC |
| T8-29M62AE-FC4 | 54-314740-0X0 | CRT FIBRE SHEET (22MMX22MMX0.8MM) | MTG CRT & FC |
| T8-29M62AE-FC4 | 57-10654X-00F | TWIST TIE NY66 | |
| T8-29M62AE-FC4 | 59-130460-00X | RUBBER PAD (25MMX7MM) | STICK ON FC FOOT |
| T8-29M62AE-FC4 | 59-377680-000 | RUBBER PAD (22X22X5MM) | FOR CRT SUPPORT |
| T8-29M62AE-FC4 | 62-216340-0UN | TCL62-216340-0UN= BLOCK R=N | |
| T8-29M62AE-FC4 | 62-321780-0HG | TV RAW FASTENER CRT DEGAUSSING COIL 25" | |
| T8-29M62AE-FC4 | 62-444980-0CN | CRT SUPPORT | MTG TO FRONT.CAB |
| T8-29M62AE-FC4 | 63-B40150-AB4G | SCREW-ST 4MM 15MM ISO 62 R=Y | MTG CRT SUPPORT TO FC |
| T8-29M62AE-FC4 | 63-S40120-BT4G | MACHINE SCREW | MTG SPEAKER TO FC |
| T8-29M62AE-FC4 | 63-W30100-AB4G | S/T SCREW W 3 X 10 AB | MTG LENS PCB TO FC |
| T8-29M62AE-FC4 | 63-W30100-AB4G | S/T SCREW W 3 X 10 AB | MTG LENS TO FC |
| T8-29M62AE-FC4 | 63-W30120-AB4G | S/T SCREW W 3 X 12 AB | MTG PUSH BUTTON TO FC |
| T8-29M62AE-FC4 | 63-W30120-AB4G | S/T SCREW W 3 X 12 AB | MTG SIDE AV BRK TO FC |
| T8-29M62AE-FC4 | 63-Z60300-AB4G | S/T SCREW HA 6X30 | MTG CRT TO FC |
| T8-29M62AE-FC4 | 67-X21679-0E0 | SPRING CRT 6MMX50MMX0.6MM | |
| T8-29M62AE-FC4 | T8-29M62AE-FC4Z | ASS'Y - FRONT CABINET(ART)ASY | |
| T8-29M62AE-FC4Z | 55-BM62FC-2CL9B | DEC BACKCOVER -- Q0003 01 9B 00 R=N | |
| T8-29M62AE-FC4Z | 56-445230-4HN6R | TV PRI FASTENER CABLE-STRAP -- 00 00 R=N | |
| T8-29M62AE-FC4Z | 56-B192LE-0HC5Z | LENS | MTG TO FRONT.CAB |
| T8-29M62AE-FC4Z | 56-LM62FB-0HA6M | TV DEC KEY CLUSTER 29M76S -- 00 6M 00 R= | |
| T8-29M62AE-FC4Z | 58-LM62FI-2UI9E | TV DEC OVERLAY 29M62 -- 00 00 00 R=Y | |
| T8-29M62AE-FC4Z | 67-L82843-0N01A | RCA LOGO | |
| T8-29M62AE-FC4 | 54-114000-00X | TV RAW FELT PAPER 150MMX19MMX0.3MM BK 01 | MTG CRT&F.CAB |
| T8-29M62AE-FC4 | 62-455090-0UN | TV RAW BRACKET -- -- 00 00 R=N | |
| T8-29M62AE-FC4 | 62-455100-0UN | TV RAW BRACKET -- -- 00 00 R=N | |
| T8-29M62AE-FC4 | 62-407210-0UN | POWER SUPPLY BRACKET | |
| 03-BM62SAE-CL12S | T8-29M62AE-RC5 | ASS'Y - REAR CABINETASY | |
| T8-29M62AE-RC5 | 54-114000-00X | TV RAW FELT PAPER 150MMX19MMX0.3MM BK 01 | |
| T8-29M62AE-RC5 | 63-B40150-AB4G | SCREW-ST 4MM 15MM ISO 62 R=Y | MTG FBT |
| T8-29M62AE-RC5 | 63-B40200-AB3G | SCREW-ST 4MM 20MM JIS B 1122 12 R=Y | MTG FC&RC |
| T8-29M62AE-RC5 | 63-F30100-BT3G | SCREW-ST 3MM 10MM ISO 65 0 0 R=Y | MTG RC&R AV BKT |
| T8-29M62AE-RC5 | T8-29M62AE-RC5Z | ASS'Y - REAR CABINET(ART)ASY | |
| T8-29M62AE-RC5Z | 55-BM62RC-5CL6R | DEC BACKCOVER -- A8252 01 00 00 R=N | |
| T8-29M62AE-RC5Z | 58-456790-2UI9A | TV DEC OVERLAY 29M62S -- 00 R=Y | |
| T8-29M62AE-RC5Z | 58-BM62MP-JKC9K | TV PRI OVERLAY REAR AV BLACK&WHITE 00 00 | |
| 03-BM62SAE-CL12S | T8-29M62AE-PA3 | ASS'Y - PACKINGASY | |
| T8-29M62AE-PA3 | 75-450400-ECO | POLYFOAM | |
| T8-29M62AE-PA3 | 75-450410-ECO | POLYFOAM | |
| T8-29M62AE-PA3 | 75-450420-ECO | POLYFOAM | |

| | | | |
|-------------------|-------------------|--|-------|
| T8-29M62AE-PA3 | 75-450430-ECO | POLYFOAM | |
| T8-29M62AE-PA3 | 75-450450-ECO | POLYFOAM | |
| T8-29M62AE-PA3 | 49-R03P80-BAT | BATTERY 1.5V | |
| T8-29M62AE-PA3 | T8-29M62AE-PA3Z | ASS'Y - PACKING(ART)ASY | |
| T8-29M62AE-PA3Z | 74-022032-6WEEM | PRI BAG -- RED 186C 01 00 00 R=N | |
| T8-29M62AE-PA3Z | 74-130130-80HEM | DEC BAG 130X130CM RED 186C 00 EM 00 R=Y | |
| T8-29M62AE-PA3Z | 76-450440-0AT8H | DEC CARTON-BOX 29M62 CA 00 8H 00 R=Y | |
| T8-29M62AE-PA3Z | 71-BM62SA-ODF1A | TV PRI LABEL 29M62 WHITE&BLACK R=Y | |
| T8-29M62AE-PA3Z | 72-BM62LA-S129C | IB OPERATION MANUAL RCA SPANISH R=Y | |
| T8-29M62AE-PA3Z | 71-RCACHI-SER7L | PRI LABEL 29M62 WHITE&BLACK R=Y | |
| T8-29M62AE-PA3Z | 71-RCACHI-SER7M | PRI LABEL 29M62 WHITE&BLACK R=Y | |
| 03-BM62SAE-CL12S | T8-29RFLT-LGHAE1 | ASS'Y - MATCH TUBEKIT | |
| T8-29RFLT-LGHAE1 | T8-29RFLT-FLGHAE | ASS'Y - MATCH TUBE (F.CAB)KIT | |
| T8-29RFLT-FLGHAE | 44-29RFLT-LGHA | CRT A68QGU820X 08T SH RF UD | |
| T8-29RFLT-LGHAE1 | T8-29RFLT-MLGHAE1 | ASS'Y - MATCH TUBE (MAIN BD)KIT | |
| T8-29RFLT-MLGHAE1 | 27-AHQ223-JSX | CAP. M. PP 0.022 UF 400V +/-5% | C454 |
| T8-29RFLT-MLGHAE1 | 27-ALQ332-JOX | CAP. M. PP 3300PF 1.6KV +/-5% | C453 |
| T8-29RFLT-MLGHAE1 | 27-ALR722-JOX | CAP. M. PP 0.0072UF 1.6KV +/-5% | C455 |
| T8-29RFLT-MLGHAE1 | 36-LIN150-XX1 | COIL LINEARITY 15 UH | L458 |
| T8-29RFLT-MLGHAE1 | 37-FCAT01-EAA9A | FBT SANHUA NX56 BSC27-0109X | T401 |
| T8-29RFLT-MLGHAE1 | 36-WID801-XX1 | TCL36-WID801-XX1= COIL WIDTH 800 UH R=N | L451 |
| T8-29RFLT-MLGHAE1 | 18-CB0563-JNX | RES. C.F. 56K OHM 1/6W +/-5% | R459 |
| T8-29RFLT-MLGHAE1 | 18-CB0332-JNX | RES. C.F. 3.3K OHM 1/6W +/-5% | R416 |
| T8-29RFLT-MLGHAE1 | 18-CE0271-JNX | TCL18-CE0271-JNX= RES. C.F. 270 OHM 1/2W | R306 |
| T8-29RFLT-MLGHAE1 | 20-TR102H-5CX | TCL20-TR102H-5CX= TRIMMER B1K HORIZ TYPE | VR801 |
| T8-29RFLT-MLGHAE1 | 18-DB0392-FNX | RES. M. F 3.9K 1/6W+/-1% | R833 |
| T8-29RFLT-MLGHAE1 | 18-EE0102-JS2 | RES. FUSE 1K OHM 1/2W +/-5% | R455A |
| T8-29RFLT-MLGHAE1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | R319 |
| T8-29RFLT-MLGHAE1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | R320 |
| T8-29RFLT-MLGHAE1 | 18-FF0270-JSX | RES. MOF 27 OHM 1W +/-5% | R402 |
| T8-29RFLT-MLGHAE1 | 18-CB0331-JNX | RES. C.F. 330 OHM 1/6W +/-5% | R420 |
| T8-29RFLT-MLGHAE1 | 27-ALR912-JOX | CAP. M. PP 9100 PF 1.6KV +/-5% | C457 |
| T8-29RFLT-MLGHAE1 | 18-FG0159-JSX | RMOF 1.5OHM +/-5% 2W R=Y | R317 |
| T8-29RFLT-MLGHAE1 | 18-FG0159-JSX | RMOF 1.5OHM +/-5% 2W R=Y | R318 |
| T8-29RFLT-MLGHAE1 | 18-FG0399-JSX | RMOF 3.9OHM +/-5% 2W R=Y | R425A |
| T8-29RFLT-MLGHAE1 | 18-RF0828-JSX | RESISTOR WIRE WOUND 0.820HM +/-5% 1W KN1 | R308A |
| T8-29RFLT-MLGHAE1 | 27-PBC222-JOX | CAP. P. E 0.0022UF 63V +/-5% | C406 |

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| T8-29RFLT-LGHAE1 | T8-29RFLT-DLGHAE1 | ASS'Y - MATCH TUBE (DPC BD)KIT | |
| T8-29RFLT-DLGHAE1 | 27-AHR474-JSX | CAP. M. PP 0.47UF 400V +/-5% | C431 |
| T8-29RFLT-DLGHAE1 | 27-AHR684-JSX | CAP. PP 680NF 400V +/-5% | C433 |
| T8-29RFLT-LGHAE1 | T8-ONX56B-CR2K | 29" CRT BDEQU | |
| T8-ONX56B-CR2K | 11-0BF422-OBX | TRANSISTOR BF422 (NPN) 126 | Q512 |
| T8-ONX56B-CR2K | 11-0BF422-OBX | TRANSISTOR BF422 (NPN) 126 | Q522 |
| T8-ONX56B-CR2K | 11-0BF422-OBX | TRANSISTOR BF422 (NPN) 126 | Q532 |
| T8-ONX56B-CR2K | 11-0BF423-OBX | TRANSISTOR BF423 (PNP) 126 | Q513 |
| T8-ONX56B-CR2K | 11-0BF423-OBX | TRANSISTOR BF423 (PNP) 126 | Q523 |
| T8-ONX56B-CR2K | 11-0BF423-OBX | TRANSISTOR BF423 (PNP) 126 | Q533 |
| T8-ONX56B-CR2K | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q501 |
| T8-ONX56B-CR2K | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q502 |
| T8-ONX56B-CR2K | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q503 |
| T8-ONX56B-CR2K | 11-SC4544-OAX | TRANSISTOR 2SC4544 | Q531A |
| T8-ONX56B-CR2K | 11-SC4544-OAX | TRANSISTOR 2SC4544 | Q521A |
| T8-ONX56B-CR2K | 11-SC4544-OAX | TRANSISTOR 2SC4544 | Q511A |
| T8-ONX56B-CR2K | 18-CB0221-JNX | RES. C. F. 220 OHM 1/6W +/-5% | R513 |
| T8-ONX56B-CR2K | 18-CB0221-JNX | RES. C. F. 220 OHM 1/6W +/-5% | R523 |
| T8-ONX56B-CR2K | 18-CB0221-JNX | RES. C. F. 220 OHM 1/6W +/-5% | R533 |
| T8-ONX56B-CR2K | 18-CB0470-JNX | RES. C. F. 47 OHM 1/6W +/-5% | R511 |
| T8-ONX56B-CR2K | 18-CB0470-JNX | RES. C. F. 47 OHM 1/6W +/-5% | R521 |
| T8-ONX56B-CR2K | 18-CB0470-JNX | RES. C. F. 47 OHM 1/6W +/-5% | R531 |
| T8-ONX56B-CR2K | 18-CB0471-JNX | RES. C. F. 470 OHM 1/6W +/-5% | R532 |
| T8-ONX56B-CR2K | 18-CB0471-JNX | RES. C. F. 470 OHM 1/6W +/-5% | R522 |
| T8-ONX56B-CR2K | 18-CB0471-JNX | RES. C. F. 470 OHM 1/6W +/-5% | R512 |
| T8-ONX56B-CR2K | 18-CD0102-JNX | RES. C. F. 1K OHM 1/4W +/-5% | R541 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R538 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R536 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R528 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R526 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R518 |
| T8-ONX56B-CR2K | 18-CD0471-JNX | RES. C. F. 470 OHM 1/4W +/-5% | R516 |
| T8-ONX56B-CR2K | 18-CE0224-JNX | RES. C. F. 220K OHM 1/2W +/-5% | R506 |
| T8-ONX56B-CR2K | 18-FE0272-JNX | RESISTOR METAL OXIDE FILM 2K7OHM 5% 1/2W | R539 |
| T8-ONX56B-CR2K | 18-FE0272-JNX | RESISTOR METAL OXIDE FILM 2K7OHM 5% 1/2W | R529 |
| T8-ONX56B-CR2K | 18-FE0272-JNX | RESISTOR METAL OXIDE FILM 2K7OHM 5% 1/2W | R519 |
| T8-ONX56B-CR2K | 26-AMM102-KRX | CAP. CER 1NOF 2KVV - | C505 |
| T8-ONX56B-CR2K | 26-EBP391-JCS | CAP. CER 390PF 50V +/-5% | C521 |
| T8-ONX56B-CR2K | 26-EBP391-JCS | CAP. CER 390PF 50V +/-5% | C511 |
| T8-ONX56B-CR2K | 26-EBP471-JCS | CAP. CER 470 PF 50V +/-5% | C531 |
| T8-ONX56B-CR2K | 41-WJ0065-B00 | 1 R=N | D531 |
| T8-ONX56B-CR2K | 41-WJ0065-B00 | 1 R=N | D521 |
| T8-ONX56B-CR2K | 41-WJ0065-B00 | 1 R=N | D511 |
| T8-ONX56B-CR2K | 41-WJ0090-B00 | WIREBARE JUMPER 9MM | J502 |
| T8-ONX56B-CR2K | 41-WJ0100-B00 | WIREBARE JUMPER 10MM | J503 |
| T8-ONX56B-CR2K | 46-10967W-01XG | SMD PIN BASE *1 TJC1-1A | P503 |
| T8-ONX56B-CR2K | 46-33079W-06XG | PIN BASE *6 TJC3-6A | P501 |
| T8-ONX56B-CR2K | 46-35179W-04XG | PIN BASE TJC3-4A | P502 |
| T8-ONX56B-CR2K | 47-CRT004-XX3G | SOCKER CRT GZS10-2-AD2 | S501 |
| T8-ONX56B-CR2K | 34-A470K0-1IX | COIL CHOKE 47 UH +/-10% | L501 |
| T8-ONX56B-CR2K | 18-FG0153-JSX | RMOF 15KOHM +/-5% 2W R=Y | R515A |
| T8-ONX56B-CR2K | 18-FG0153-JSX | RMOF 15KOHM +/-5% 2W R=Y | R525A |
| T8-ONX56B-CR2K | 18-FG0153-JSX | RMOF 15KOHM +/-5% 2W R=Y | R535A |
| T8-ONX56B-CR2K | 41-WJ0075-B00 | WIREBARE JUMPER 7.5MM | J504 |
| T8-ONX56B-CR2K | 18-CB0751-JNX | RES. C. F. 750 OHM 1/6W +/-5% | R501 |
| T8-ONX56B-CR2K | 18-CB0751-JNX | RES. C. F. 750 OHM 1/6W +/-5% | R502 |
| T8-ONX56B-CR2K | 18-CB0751-JNX | RES. C. F. 750 OHM 1/6W +/-5% | R503 |

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| T8-0NX56B-CR2K | 40-0NX56B-CRD1XG | TV PCB CR BD R=Y | |
| T8-0NX56B-CR2K | 26-EBP561-JCS | CAP. CEP 560PF 50V +/-5% | C541 |
| 03-BM62SAE-CL12S | T8-BM62SAE-MA3SM | ASS'Y - CHASSIS BDKIT | |
| T8-BM62SAE-MA3SM | T8-29M62AE-IR1 | ASS'Y - RECEIVE BDEQU | |
| T8-29M62AE-IR1 | 02-IRR001-XX1 | IR RECEIVER MODULE HRM380017 | IR1001 |
| T8-29M62AE-IR1 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q111 |
| T8-29M62AE-IR1 | 14-LED03R-XX1 | LED RED Φ 3MM F0203 | D1012 |
| T8-29M62AE-IR1 | 18-CB0100-JNX | RES. C.F. 10 OHM 1/6W +/-5% | R1011 |
| T8-29M62AE-IR1 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R013 |
| T8-29M62AE-IR1 | 18-CB0681-JNX | RES. C.F. 680 OHM 1/6W +/-5% | R1012 |
| T8-29M62AE-IR1 | 25-HCB470-M1X | CAP. ELEC 47 UF 16V +/-20% | C1012 |
| T8-29M62AE-IR1 | 40-00TB97-IRA1XG | TV PCB IR BD R=Y | |
| T8-29M62AE-IR1 | 46-CE035T-04K01G | WIRE 导电 350MM 04 TJC3 JC25 2.5MM UL#24 | S1001 TO P202(PIN1-PIN4) |
| T8-BM62SAE-MA3SM | T8-29F5AE-SI1 | ASS'Y - SIDE AV BDEQU | |
| T8-29F5AE-SI1 | 40-029M71-SIA1XG | TV PCB SI BD R=Y | |
| T8-29F5AE-SI1 | 46-CD055T-05K01G | WIRE 导线 550MM 05 TJC3 SCN 2.5MM UL#246 | P1903 TO P902 |
| T8-29F5AE-SI1 | 47-RCA020-XX1G | RCA SOCKET Y/W/R | P1901 |
| T8-BM62SAE-MA3SM | T8-DM63SAE-BT1 | ASS'Y - BTSC BDEQU | |
| T8-DM63SAE-BT1 | 12-BC847B-OBX | TR-SMD NPN 45VV 100MA A 100HZ 0.25W SOT2 | Q703 |
| T8-DM63SAE-BT1 | 13-74HC40-53B | IC 74HC4053D | IC702 |
| T8-DM63SAE-BT1 | 13-AN5832-SAB | IC AN5832SA | IC701 |
| T8-DM63SAE-BT1 | 19-AB0100-JTX | RES SMD 10 OHM 1/10W +/-5% | R704 |
| T8-DM63SAE-BT1 | 19-AB0101-JTX | RES SMD 100 OHM 1/10W 0603 | R701 |
| T8-DM63SAE-BT1 | 19-AB0101-JTX | RES SMD 100 OHM 1/10W 0603 | R702 |
| T8-DM63SAE-BT1 | 19-AB0103-JTX | RES SMD 10K OHM 1/10W 0603 | R717 |
| T8-DM63SAE-BT1 | 19-AB0103-JTX | RES SMD 10K OHM 1/10W 0603 | R708 |
| T8-DM63SAE-BT1 | 19-AB0104-JTX | SMD. RES 100K OHM 1/10W 0603 | R715 |
| T8-DM63SAE-BT1 | 19-AB0104-JTX | SMD. RES 100K OHM 1/10W 0603 | R714 |
| T8-DM63SAE-BT1 | 19-AB0184-JTX | RES SMD 180K OHM 1/10W +/-5% 0603 | R703 |
| T8-DM63SAE-BT1 | 19-AB0332-JTX | SMD RES 3.3K OHM 1/10W 0603 | R706 |
| T8-DM63SAE-BT1 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C710 |
| T8-DM63SAE-BT1 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C736 |
| T8-DM63SAE-BT1 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C735 |
| T8-DM63SAE-BT1 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C723 |
| T8-DM63SAE-BT1 | 25-BFB229-M1X | CAP. ELEC 2.2 UF 50V +/-20% | C705 |
| T8-DM63SAE-BT1 | 25-BFB229-M1X | CAP. ELEC 2.2 UF 50V +/-20% | C706 |
| T8-DM63SAE-BT1 | 25-BFB479-M1X | CAP. ELEC 4.7 UF 50V +/-20% | C708 |
| T8-DM63SAE-BT1 | 25-BFB229-M1X | CAP. ELEC 2.2 UF 50V +/-20% | C716 |
| T8-DM63SAE-BT1 | 25-BFB339-M1X | CAP.ELE 5MM 3.3UF 50V 5X11 85 / | C721 |
| T8-DM63SAE-BT1 | 25-BFB229-M1X | CAP. ELEC 2.2 UF 50V +/-20% | C707 |
| T8-DM63SAE-BT1 | 28-AA0224-KBX | CAP.CER,SMD 220NOF 10.0V 0603 -- | C713 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C720 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C737 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C734 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C733 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C718 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C712 |
| T8-DM63SAE-BT1 | 28-AB0104-ZFX | CAP.CER,SMD 100NOF 50V DCV 0603 - | C709 |
| T8-DM63SAE-BT1 | 28-AB0223-ZFX | CAP.CER,SMD 22NOF 50.0V 0603 - | C719 |
| T8-DM63SAE-BT1 | 28-AB0333-ZFX | CAP.CER,SMD 33NOF 50.0V 0603 - | C717 |
| T8-DM63SAE-BT1 | 28-AB0470-JCX | CAP.SMD 47PF 50V +/-5% 0603 | C703 |
| T8-DM63SAE-BT1 | 28-AB0470-JCX | CAP.SMD 47PF 50V +/-5% 0603 | C702 |
| T8-DM63SAE-BT1 | 28-AC0334-ZFX | SMD. CAP 0.33UF 16VDC +80%/-20% | C714 |
| T8-DM63SAE-BT1 | 28-AC0334-ZFX | SMD. CAP 0.33UF 16VDC +80%/-20% | C722 |
| T8-DM63SAE-BT1 | 19-AB0104-JTX | SMD. RES 100K OHM 1/10W 0603 | R718 |
| T8-DM63SAE-BT1 | 19-AB0104-JTX | SMD. RES 100K OHM 1/10W 0603 | R719 |
| T8-DM63SAE-BT1 | 19-AB0101-JTX | RES SMD 100 OHM 1/10W 0603 | R720 |
| T8-DM63SAE-BT1 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C738 |
| T8-DM63SAE-BT1 | 45-FIL4M5-0Y1 | CERAMIC FILTER SFSH4.5MDB | X701 |

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| T8-DM63SAE-BT1 | 40-00NX56-BTE2XG | TV PCB BT BD R=Y | |
| T8-DM63SAE-BT1 | 46-40362W-16XG | CONN 250单打 16 MALE ST R=N | P701 |
| T8-DM63SAE-BT1 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C711 |
| T8-DM63SAE-BT1 | 09-BAS316-ATX | D,SMD 75VV 250MA A 715MVV 4N 0.4W SOD323 | D701 |
| T8-BM62SAE-MA3SM | T8-BM62SAE-MA3HM | ASS'Y - MAIN BDKIT | |
| T8-BM62SAE-MA3HM | T8-NX56LA-MA11 | ASS'Y - MAIN BDEQU | |
| T8-NX56LA-MA11 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D301 |
| T8-NX56LA-MA11 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D401 |
| T8-NX56LA-MA11 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D454 |
| T8-NX56LA-MA11 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D404 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D316 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D315 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D207 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D206 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D210 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D406 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D601 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D412 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D204 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D205 |
| T8-NX56LA-MA11 | 10-79C33V-DBX | DIODE ZENER 33V 1/2W 5% | D101 |
| T8-NX56LA-MA11 | 10-79C4V7-DBX | D-PR /A / V 4.7V BZX79C4V7 | D201 |
| T8-NX56LA-MA11 | 10-79C4V7-DBX | D-PR /A / V 4.7V BZX79C4V7 | D202 |
| T8-NX56LA-MA11 | 10-79C4V7-DBX | D-PR /A / V 4.7V BZX79C4V7 | D203 |
| T8-NX56LA-MA11 | 10-79C7V5-DBX | TCL10-79C7V5-DBX= DIODE ZENER 7V5 1/2W 5 | D411 |
| T8-NX56LA-MA11 | 11-DD1556-0AX | TRANSISTOR 3DD1556 | Q402 |
| T8-NX56LA-MA11 | 11-SA1015-YBX | TR 50VV 150MA A PNP 0.4W 80MHZ TO-92 ST2 | Q601 |
| T8-NX56LA-MA11 | 11-SA1015-YBX | TR 50VV 150MA A PNP 0.4W 80MHZ TO-92 ST2 | Q403 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q901 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q210 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q602 |
| T8-NX56LA-MA11 | 11-SD667A-CBX | TRANSISTOR 2SD667A-C | Q401 |
| T8-NX56LA-MA11 | 13-00M24C-16P | IC-EEPROM M24C16-WBN6 R=N | IC202 (CP) |
| T8-NX56LA-MA11 | 13-DA7266-SAS | TCL13-DA7266-SAS= IC TDA7266SA R=N | IC601 |
| T8-NX56LA-MA11 | 13-STV817-2AS | IC-DEFLECT STV8172A VERTICAL DEFLECTION | IC301 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R239 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R215 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R214 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R208 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R102 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R101 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R241 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R246 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R250 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R604A |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R603A |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R272 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R256 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R240 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R228 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R213 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R302 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R303 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R258 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R257 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R415 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R254 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R255 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R614 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R242 |

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| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R271 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R923 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R409 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R421 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R238 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R613 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R612 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R610 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R428 |
| T8-NX56LA-MA11 | 18-CB0104-JNX | RES. C.F. 100K OHM 1/6W +/-5% | R417 |
| T8-NX56LA-MA11 | 18-CB0123-JNX | RES. C.F. 12K OHM 1/6W +/-5% | R216 |
| T8-NX56LA-MA11 | 18-CB0152-JNX | RES. C.F. 1.5K OHM 1/6W +/-5% | R251 |
| T8-NX56LA-MA11 | 18-CB0153-JNX | RES. C.F. 15K OHM 1/6W +/-5% | R201 |
| T8-NX56LA-MA11 | 18-CB0183-JNX | RES. C.F. 18K OHM 1/6W +/-5% | R926 |
| T8-NX56LA-MA11 | 18-CB0202-JNX | RES. C.F. 2K OHM 1/6W +/-5% | R407 |
| T8-NX56LA-MA11 | 18-CB0222-JNX | RES. C.F. 2.2K OHM 1/6W +/-5% | R301 |
| T8-NX56LA-MA11 | 18-CB0222-JNX | RES. C.F. 2.2K OHM 1/6W +/-5% | R304 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R406 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R905 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R611 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R902 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R903 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R249 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R906 |
| T8-NX56LA-MA11 | 18-CB0223-JNX | RES. C.F. 22K OHM 1/6W +/-5% | R332 |
| T8-NX56LA-MA11 | 18-CB0333-JNX | RES. C.F. 33K OHM 1/6W +/-5% | R209 |
| T8-NX56LA-MA11 | 18-CB0333-JNX | RES. C.F. 33K OHM 1/6W +/-5% | R210 |
| T8-NX56LA-MA11 | 18-CB0391-JNX | RES. C.F. 390 OHM 1/6W +/-5% | R204 |
| T8-NX56LA-MA11 | 18-CB0563-JNX | RES. C.F. 56K OHM 1/6W +/-5% | R607 |
| T8-NX56LA-MA11 | 18-CB0393-JNX | RES. C.F. 39K OHM 1/6W +/-5% | R212 |
| T8-NX56LA-MA11 | 18-CB0470-JNX | RES. C.F. 47 OHM 1/6W +/-5% | R220 |
| T8-NX56LA-MA11 | 18-CB0470-JNX | RES. C.F. 47 OHM 1/6W +/-5% | R223 |
| T8-NX56LA-MA11 | 18-CB0470-JNX | RES. C.F. 47 OHM 1/6W +/-5% | R224 |
| T8-NX56LA-MA11 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R401 |
| T8-NX56LA-MA11 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R202 |
| T8-NX56LA-MA11 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R924 |
| T8-NX56LA-MA11 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R231 |
| T8-NX56LA-MA11 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R219 |
| T8-NX56LA-MA11 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R229 |
| T8-NX56LA-MA11 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R270 |
| T8-NX56LA-MA11 | 18-CB0473-JNX | RES. C.F. 47K OHM 1/6W +/-5% | R206 |
| T8-NX56LA-MA11 | 18-CB0274-JNX | TCL18-CB0274-JNX= RES. C.F. 270K OHM 1/6 | R410 |
| T8-NX56LA-MA11 | 18-CB0513-JNX | TCL18-CB0513-JNX= RES. C.F. 51K OHM 1/6W | R925 |
| T8-NX56LA-MA11 | 18-CB0562-JNX | RES. C.F. 5.6K OHM 1/6W +/-5% | R605 |
| T8-NX56LA-MA11 | 18-CB0562-JNX | RES. C.F. 5.6K OHM 1/6W +/-5% | R606 |
| T8-NX56LA-MA11 | 18-CB0680-JNX | RES. C.F. 68 OHM 1/6W +/-5% | R203 |
| T8-NX56LA-MA11 | 18-CB0681-JNX | RES. C.F. 680 OHM 1/6W +/-5% | R207 |
| T8-NX56LA-MA11 | 18-CB0820-JNX | RES. C.F. 82 OHM 1/6W +/-5% | R901 |
| T8-NX56LA-MA11 | 18-CB0820-JNX | RES. C.F. 82 OHM 1/6W +/-5% | R269 |
| T8-NX56LA-MA11 | 18-CB0820-JNX | RES. C.F. 82 OHM 1/6W +/-5% | R904 |
| T8-NX56LA-MA11 | 18-CB0820-JNX | RES. C.F. 82 OHM 1/6W +/-5% | R278 |
| T8-NX56LA-MA11 | 18-CD0100-JNX | RES. C.F. 10 OHM 1/4W +/-5% | J410 |
| T8-NX56LA-MA11 | 18-CD0121-JNX | RES. C.F. 120 OHM 1/4W +/-5% | R403 |
| T8-NX56LA-MA11 | 18-CD0189-JNX | RES. C.F. 1.8 OHM 1/4W +/-5% | R305 |
| T8-NX56LA-MA11 | 18-EE0478-JNX | RES. FUS 0.47 OHM 1/2W +/-5% | R418 |
| T8-NX56LA-MA11 | 18-EE0478-JNX | RES. FUS 0.47 OHM 1/2W +/-5% | R408 |
| T8-NX56LA-MA11 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C219 |
| T8-NX56LA-MA11 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C252 |
| T8-NX56LA-MA11 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C253 |
| T8-NX56LA-MA11 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C243 |

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| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C237 |
| T8-NX56LA-MA11 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C104 |
| T8-NX56LA-MA11 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C605 |
| T8-NX56LA-MA11 | 25-BDB102-M1X | CAP.ELE 5MM 1000UF 25V 10*20 85 CD110 | C305 |
| T8-NX56LA-MA11 | 25-BDB102-M1X | CAP.ELE 5MM 1000UF 25V 10*20 85 CD110 | C303 |
| T8-NX56LA-MA11 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C402 |
| T8-NX56LA-MA11 | 25-BDB471-M1X | CAP. ELEC 470 UF 25V +/-20% | C601 |
| T8-NX56LA-MA11 | 25-BEB101-M1X | CAP. ELEC 100 UF 35V +/-20% | C307 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C221 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C902 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C211 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C203 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C202 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C230 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C101 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C106 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C250 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C609 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C251 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C249 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C248 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C247 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C246 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C245 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C226 |
| T8-NX56LA-MA11 | 25-BFB109-M1X | CAP. ELEC 1 UF 50V +/-20% | C216 |
| T8-NX56LA-MA11 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C425 |
| T8-NX56LA-MA11 | 25-BFB479-M1X | CAP. ELEC 4.7 UF 50V +/-20% | C205 |
| T8-NX56LA-MA11 | 25-BJG101-M1X | CAP. ELEC 100 UF 160V +/-20% | C419 |
| T8-NX56LA-MA11 | 25-DFA479-M1XR | CAP.ELEC 4.7UF 50V +/-20% | C452 |
| T8-NX56LA-MA11 | 26-AIC391-KBX | CAP. CER 390 PF 500V +/-10% B | C412 |
| T8-NX56LA-MA11 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C306 |
| T8-NX56LA-MA11 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C301 |
| T8-NX56LA-MA11 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C213 |
| T8-NX56LA-MA11 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C212 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C108 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C207 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C218 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C311 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C105 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C107 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C239 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C238 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C235 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C244 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C217 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C304 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C611 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C240 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C241 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C210 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C233 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C302 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C901 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C242 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C608 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C220 |
| T8-NX56LA-MA11 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C222 |
| T8-NX56LA-MA11 | 26-EBP223-ZFS | CAP. CER 22NF 50V +80%/-20% | C225 |
| T8-NX56LA-MA11 | 26-EBP223-ZFS | CAP. CER 22NF 50V +80%/-20% | C206 |

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| T8-NX56LA-MA11 | 26-EBP333-KBS | CAP. CER 33NF 50V +/-10% | C612 |
| T8-NX56LA-MA11 | 26-EBP333-KBS | CAP. CER 33NF 50V +/-10% | C613 |
| T8-NX56LA-MA11 | 27-MBC104-J0X | CAP. M. P. E 0.1 UF 63V +/-5% | C309 |
| T8-NX56LA-MA11 | 27-MBC104-J0X | CAP. M. P. E 0.1 UF 63V +/-5% | C214 |
| T8-NX56LA-MA11 | 27-MBC104-J0X | CAP. M. P. E 0.1 UF 63V +/-5% | C204 |
| T8-NX56LA-MA11 | 27-MBC154-J0X | CAP. M. P. E. 0.15UF 63V +/-5% | C208 |
| T8-NX56LA-MA11 | 27-MBC224-J0X | CAP. M. P. E 0.22UF 63V +/-5% | C602 |
| T8-NX56LA-MA11 | 27-MBC224-J0X | CAP. M. P. E 0.22UF 63V +/-5% | C603 |
| T8-NX56LA-MA11 | 27-MBC224-J0X | CAP. M. P. E 0.22UF 63V +/-5% | C310 |
| T8-NX56LA-MA11 | 27-PBC563-J0X | CAP. P. E 0.056 UF 63V +/-5% | C414 |
| T8-NX56LA-MA11 | 27-PBC563-J0X | CAP. P. E 0.056 UF 63V +/-5% | C420 |
| T8-NX56LA-MA11 | 27-PBC682-J0X | CAP. P. E 0.0068UF 63V +/-5% | C215 |
| T8-NX56LA-MA11 | 34-A100K0-1IX | COIL CHOKE 10 UH +/-10% | L204 |
| T8-NX56LA-MA11 | 34-A100K0-1IX | COIL CHOKE 10 UH +/-10% | L202 |
| T8-NX56LA-MA11 | 34-A100K0-1IX | COIL CHOKE 10 UH +/-10% | L101 |
| T8-NX56LA-MA11 | 34-A100K0-1IX | COIL CHOKE 10 UH +/-10% | L203 |
| T8-NX56LA-MA11 | 34-A100K0-1IX | COIL CHOKE 10 UH +/-10% | L201 |
| T8-NX56LA-MA11 | 34-R100J2-0EX | COIL PL - 10 UH +/-5% | L205 |
| T8-NX56LA-MA11 | 34-R100J2-0EX | COIL PL - 10 UH +/-5% | L206 |
| T8-NX56LA-MA11 | 36-HDR020-XX0 | TRANSFORMER HORIZ DRIVE BCT-1621 | T402 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J417 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J416 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J415 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J412 |
| T8-NX56LA-MA11 | 41-WJ0060-B00 | WIRE-BARE | J609 |
| T8-NX56LA-MA11 | 41-WJ0060-B00 | WIRE-BARE | J910 |
| T8-NX56LA-MA11 | 41-WJ0060-B00 | WIRE-BARE | J244 |
| T8-NX56LA-MA11 | 41-WJ0060-B00 | WIRE-BARE | J202 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J907 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J222 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J411 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J235 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J242 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J902 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J223 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J307 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J303 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J301 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | JB601 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | JB602 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J212 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J610 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J605 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J409 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J311 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J102 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J107 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J231 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J229 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J227 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J243 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J208 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J309 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J214 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J602 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J228 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J310 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J305 |
| T8-NX56LA-MA11 | 41-WJ0090-B00 | WIREBAREJUMPER9MM | JB603 |
| T8-NX56LA-MA11 | 41-WJ0090-B00 | WIREBAREJUMPER9MM | JB604 |

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| T8-NX56LA-MA11 | 41-WJ0090-B00 | WIREBARE JUMPER9MM | J234 |
| T8-NX56LA-MA11 | 41-WJ0090-B00 | WIREBARE JUMPER9MM | J221 |
| T8-NX56LA-MA11 | 41-WJ0095-B00 | WIREBARE JUMPER9. 5MM | J403 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J225 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J230 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J105 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J104 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J205 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J206 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J308 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J414 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J109 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J110 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J607 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J606 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J237 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J238 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J601 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J101 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J201 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBARE JUMPER10MM | J220 |
| T8-NX56LA-MA11 | 41-WJ0105-B00 | WIREBARE JUMPER10. 5MM | J413 |
| T8-NX56LA-MA11 | 41-WJ0110-B00 | WIREBARE JUMPER11MM | J407 |
| T8-NX56LA-MA11 | 41-WJ0110-B00 | WIREBARE JUMPER11MM | J908 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBARE JUMPER11. 5MM | J216 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBARE JUMPER11. 5MM | J215 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBARE JUMPER11. 5MM | J219 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBARE JUMPER11. 5MM | J217 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBARE JUMPER11. 5MM | J218 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J608 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J404 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J203 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J240 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J241 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J304 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J210 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J204 |
| T8-NX56LA-MA11 | 41-WJ0125-B00 | WIREBARE JUMPER12. 5MM | J906 |
| T8-NX56LA-MA11 | 41-WJ0150-B00 | WIREBARE JUMPER15MM | J211 |
| T8-NX56LA-MA11 | 41-WJ0150-B00 | WIREBARE JUMPER15MM | J006 |
| T8-NX56LA-MA11 | 41-WJ0150-B00 | WIREBARE JUMPER15MM | J224 |
| T8-NX56LA-MA11 | 41-WJ0150-B00 | WIREBARE JUMPER15MM | J918 |
| T8-NX56LA-MA11 | 41-WJ0175-B00 | WIREBARE JUMPER17. 5MM | J406 |
| T8-NX56LA-MA11 | 41-WJ0175-B00 | WIREBARE JUMPER17. 5MM | J408 |
| T8-NX56LA-MA11 | 41-WJ0175-B00 | WIREBARE JUMPER17. 5MM | J402 |
| T8-NX56LA-MA11 | 41-WJ0200-B00 | WIREBARE JUMPER20MM | J405 |
| T8-NX56LA-MA11 | 45-OSC24M-5N6BR | CRYSTAL 24. 576MHZ 30PPM R=Y | X201 |
| T8-NX56LA-MA11 | 46-33079W-02XG | PIN BASE *2 TJC3-2A | P602 |
| T8-NX56LA-MA11 | 46-33079W-03XG | PIN BASE *3 TJC3-3A | P603 |
| T8-NX56LA-MA11 | 46-33079W-04XG | PIN BASE *4 TJC3-4A | P203 |
| T8-NX56LA-MA11 | 46-39402W-04XG | BASE | P401 |
| T8-NX56LA-MA11 | 63-B30100-AB4G | SCREW-ST 3MM 10MM JIS B 1122 53 0 0 R=Y | FOR IC301 |
| T8-NX56LA-MA11 | 64-P30080-104G | M/C SCREW P 3 X 8 | FOR IC601 |
| T8-NX56LA-MA11 | 64-P30080-104G | M/C SCREW P 3 X 8 | FOR Q451 |
| T8-NX56LA-MA11 | 63-B30080-BT4G | S/T SCREW B 3 X 8 BT | FOR Q402 |
| T8-NX56LA-MA11 | 66-343730-0B0 | HOLLOW RIVET 1. 6MMX3. 0MMX3. 2MM | FOR L451 |
| T8-NX56LA-MA11 | 66-343730-0B0 | HOLLOW RIVET 1. 6MMX3. 0MMX3. 2MM | FOR Q402 |
| T8-NX56LA-MA11 | 66-343730-0B0 | HOLLOW RIVET 1. 6MMX3. 0MMX3. 2MM | FOR L458 |
| T8-NX56LA-MA11 | 66-343740-0B0 | HOLLOW RIVET (2. 3MMX4. 0MMX3. 5MM) | FOR P401 |
| T8-NX56LA-MA11 | 67-H27292-1A0 | HEAT SINK | Y451 |

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| T8-NX56LA-MA11 | 67-H30752-GA0 | RAW HEATSINK -- GA0 00 R=N | Y402 |
| T8-NX56LA-MA11 | 67-H40390-4A0 | HEAT SINK | Y1 |
| T8-NX56LA-MA11 | 67-H40390-4A0 | HEAT SINK | Y2 |
| T8-NX56LA-MA11 | 67-M40068-2E4 | TV RAW SUPPORT -- -- 00 00 00 R=N | Y301 |
| T8-NX56LA-MA11 | 10-79C5V6-DBX | DIODE ZENER 5V6 1/2W 5% | D004 |
| T8-NX56LA-MA11 | 62-227680-0UA | TV RAW SUPPORT CABLE CHASSIS -- 00 00 00 | |
| T8-NX56LA-MA11 | 62-227680-1UA | TV RAW SUPPORT CABLE FBT -- 01 00 00 R=N | |
| T8-NX56LA-MA11 | 41-WJ0060-B00 | WIRE-BARE | JP103 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JP202 |
| T8-NX56LA-MA11 | 26-ABC103-ZFX | CAP. CER 0.01 UF 50V +80-20% F | C209 |
| T8-NX56LA-MA11 | 18-CB0332-JNX | RES. C.F. 3.3K OHM 1/6W +/-5% | R221 |
| T8-NX56LA-MA11 | 18-CB0332-JNX | RES. C.F. 3.3K OHM 1/6W +/-5% | R222 |
| T8-NX56LA-MA11 | 25-BLB100-M1X | CAP. ELEC 10 UF 250V +/-20% | C413 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | R004 |
| T8-NX56LA-MA11 | 18-CB0272-JNX | RES. C.F. 2.7K OHM 1/6W +/-5% | R211 |
| T8-NX56LA-MA11 | 11-KTD863-OBX | TRANSISTOR KTD863 | Q201 |
| T8-NX56LA-MA11 | 11-KTD863-OBX | TRANSISTOR KTD863 | Q202 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q301 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C256 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q903 |
| T8-NX56LA-MA11 | 26-EBP470-JCS | CAP. CER 47 PF 50V +/-5% | C102 |
| T8-NX56LA-MA11 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ TO-92 2SC | Q904 |
| T8-NX56LA-MA11 | 26-EBP470-JCS | CAP. CER 47 PF 50V +/-5% | C103 |
| T8-NX56LA-MA11 | 18-CB0100-JNX | RES. C.F. 10 OHM 1/6W +/-5% | R217 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R245 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C257 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R247 |
| T8-NX56LA-MA11 | 25-BFB220-M1X | CAP. ELEC 22 UF 50V +/-20% | C317 |
| T8-NX56LA-MA11 | 25-BFB479-M1X | CAP. ELEC 4.7 UF 50V +/-20% | C318 |
| T8-NX56LA-MA11 | 25-BFB220-M1X | CAP. ELEC 22 UF 50V +/-20% | C319 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R253 |
| T8-NX56LA-MA11 | 27-PBC103-J0X | CAP. P.E. 0.01UF 63V +/-5% | C401 |
| T8-NX56LA-MA11 | 18-CB0391-JNX | RES. C.F. 390 OHM 1/6W +/-5% | R259 |
| T8-NX56LA-MA11 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C421 |
| T8-NX56LA-MA11 | 18-CB0331-JNX | RES. C.F. 330 OHM 1/6W +/-5% | R260 |
| T8-NX56LA-MA11 | 18-FG0180-JSX | RMOF 180HM +/-5% 2W R=Y | R262 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | D220 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R274 |
| T8-NX56LA-MA11 | 10-79C5V6-DBX | DIODE ZENER 5V6 1/2W 5% | D251 |
| T8-NX56LA-MA11 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D313 |
| T8-NX56LA-MA11 | 18-CB0152-JNX | RES. C.F. 1.5K OHM 1/6W +/-5% | R311 |
| T8-NX56LA-MA11 | 10-79C4V7-DBX | D-PR /A / V 4.7V BZX79C4V7 | D314 |
| T8-NX56LA-MA11 | 18-CB0221-JNX | RES. C.F. 220 OHM 1/6W +/-5% | R314 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R315 |
| T8-NX56LA-MA11 | 10-79C18V-DBX | D-PR /A / V 18V BZX79C18 | D408 |
| T8-NX56LA-MA11 | 18-CB0562-JNX | RES. C.F. 5.6K OHM 1/6W +/-5% | R316 |
| T8-NX56LA-MA11 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D410 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R423 |
| T8-NX56LA-MA11 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR T401 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R429 |
| T8-NX56LA-MA11 | 18-FF0399-JSX | RMOF 3.90HM +/-5% 1W R=Y | R460 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J001 |
| T8-NX56LA-MA11 | 18-CB0393-JNX | RES. C.F. 39K OHM 1/6W +/-5% | R608 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J002 |
| T8-NX56LA-MA11 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R921 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R927 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R928 |
| T8-NX56LA-MA11 | 41-WJ0080-B00 | WIREBAREJUMPER8MM | J007 |
| T8-NX56LA-MA11 | 41-WJ0065-B00 | 1 R=N | J008 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J108 |

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| T8-NX56LA-MA11 | 67-H82981-7A0 | RAW HEATSINK -- 05 00 R=N | Y601 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J207 |
| T8-NX56LA-MA11 | 41-WJ0185-B00 | WIREBAREJUMPER18.5MM | J213 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J226 |
| T8-NX56LA-MA11 | 41-WJ0055-B00 | WIREBAREJUMPER5.5MM | J232 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J245 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J246 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J247 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J248 |
| T8-NX56LA-MA11 | 41-WJ0065-B00 | 1 R=N | J249 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J419 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J420 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J421 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J423 |
| T8-NX56LA-MA11 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J424 |
| T8-NX56LA-MA11 | 41-WJ0055-B00 | WIREBAREJUMPER5.5MM | J425 |
| T8-NX56LA-MA11 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J426 |
| T8-NX56LA-MA11 | 41-WJ0055-B00 | WIREBAREJUMPER5.5MM | J427 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J904 |
| T8-NX56LA-MA11 | 41-WJ0170-B00 | WIREBAREJUMPER17MM | J905 |
| T8-NX56LA-MA11 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J911 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J913 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J914 |
| T8-NX56LA-MA11 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J915 |
| T8-NX56LA-MA11 | 41-WJ0115-B00 | WIREBAREJUMPER11.5MM | J916 |
| T8-NX56LA-MA11 | 41-WJ0120-B00 | WIREBAREJUMPER12MM | J917 |
| T8-NX56LA-MA11 | 41-WJ0055-B00 | WIREBAREJUMPER5.5MM | JZ903 |
| T8-NX56LA-MA11 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R252 |
| T8-NX56LA-MA11 | 18-CB0101-JNX | RES. C.F. 100 OHM 1/6W +/-5% | R275 |
| T8-NX56LA-MA11 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R922 |
| T8-NX56LA-MA11 | 10-79C8V2-DBX | D-ZENER BZX55C8V2 8.2V 500M10W R=N | D407 |
| T8-NX56LA-MA11 | 26-EBP221-JCS | CAP. CER 220 PF 50V +/-5% | C308 |
| T8-NX56LA-MA11 | 10-GBY228-FPX | D-FSR GBY228 1500V 2.5A R=Y | D455 |
| T8-NX56LA-MA11 | 11-RFS630-OCXB | N-CHANNEL MOSFET IRFS630B | Q451 |
| T8-NX56LA-MA11 | 18-CE0229-JNX | TCL18-CE0229-JNX= RES. C.F. 2.2 OHM 1/2W | J233 |
| T8-NX56LA-MA11 | 10-79C9V1-DBX | D-PR /A / V 9.1V BZX79C9V1 | D250 |
| T8-NX56LA-MA11 | 18-FG0180-JSX | RMOF 180HM +/-5% 2W R=Y | R261 |
| T8-NX56LA-MA11 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R205 |
| T8-NX56LA-MA11 | 26-EBP103-ZFS | CAP. CER 10NF 50V +80% -20% | C005 |
| T8-NX56LA-MA11 | 26-EBP221-JCS | CAP. CER 220 PF 50V +/-5% | C002 |
| T8-NX56LA-MA11 | 40-00NX56-MA01XG | TV PCB MA BD R=Y | |
| T8-BM62SAE-MA3HM | T8-NX56LA-PW7 | ASS'Y - POWER PARTSASYKIT | |
| T8-NX56LA-PW7 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D813 |
| T8-NX56LA-PW7 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D811 |
| T8-NX56LA-PW7 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D810 |
| T8-NX56LA-PW7 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D804 |
| T8-NX56LA-PW7 | 10-0FR107-FBX | D-PIN 1.3V 1 A 1000VV 500NS /W D0-15 FR1 | D809 |
| T8-NX56LA-PW7 | 10-1N4007-EBX | D-PIN 1.1V 1 A 1000V / /W D0-41 1N4007 | D802 |
| T8-NX56LA-PW7 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D807 |
| T8-NX56LA-PW7 | 10-79C3V9-DBX | D-PR /A / V 3.9V BZX79C3V9 | ZD803 |
| T8-NX56LA-PW7 | 10-79C3V9-DBX | D-PR /A / V 3.9V BZX79C3V9 | ZD802 |
| T8-NX56LA-PW7 | 10-HER108-FBX | DIODE HER108 | D803 |
| T8-NX56LA-PW7 | 10-HS16VC-DBX | DIODE 500MW 16HSC | ZD801 |
| T8-NX56LA-PW7 | 11-TC144E-OBX | TRANSISTOR DTC144ESA | Q808 |
| T8-NX56LA-PW7 | 11-SC1815-YBX | TR 50VV 150MA A NPN 0.4W 80MHZ T0-92 2SC | Q806 |
| T8-NX56LA-PW7 | 11-SK2996-OAX | TRANSISTOR 2SK2996 (MOS) | Q801 |
| T8-NX56LA-PW7 | 13-000TL4-31T | IC-REGSPECKT TL431ACLP R=N | IC802 |
| T8-NX56LA-PW7 | 13-NCP133-7PP | OPTICOUPL NCP1337P | IC801 |
| T8-NX56LA-PW7 | 13-PC123X-9YP | TCL13-PC123X-9YP= PHOTOCOUPLER PC123X9YF | IC803 |
| T8-NX56LA-PW7 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R852 |

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| T8-NX56LA-PW7 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R844 |
| T8-NX56LA-PW7 | 18-CB0103-JNX | RES. C.F. 10K OHM 1/6W +/-5% | R808 |
| T8-NX56LA-PW7 | 18-CB0153-JNX | RES. C.F. 15K OHM 1/6W +/-5% | R810 |
| T8-NX56LA-PW7 | 18-CB0183-JNX | RES. C.F. 18K OHM 1/6W +/-5% | R831 |
| T8-NX56LA-PW7 | 18-CB0122-JNX | RES. C.F. 1.2K OHM 1/6W +/-5% | R805 |
| T8-NX56LA-PW7 | 18-CB0222-JNX | RES. C.F. 2.2K OHM 1/6W +/-5% | R820 |
| T8-NX56LA-PW7 | 18-CB0331-JNX | RES. C.F. 330 OHM 1/6W +/-5% | R819 |
| T8-NX56LA-PW7 | 18-CD0100-JNX | RES. C.F. 10 OHM 1/4W +/-5% | R840 |
| T8-NX56LA-PW7 | 18-CD0101-JNX | RES. C.F. 100 OHM 1/4W +/-5% | R809 |
| T8-NX56LA-PW7 | 18-DD0184-FNX | RES. M.F. 180K OHM 1/4W +/-1% | R829 |
| T8-NX56LA-PW7 | 18-DB0103-FNX | TCL18-DB0103-FNX= RES. M.F. 10K OHM 1/6W | R830 |
| T8-NX56LA-PW7 | 18-DB0223-FNX | TCL18-DB0223-FNX= RES. M.F. 22K OHM 1/6W | R803 |
| T8-NX56LA-PW7 | 18-DB0393-FNX | RES. M.F. 39K OHM 1/6W +/-1% | R832 |
| T8-NX56LA-PW7 | 18-FE0102-JNX | RESISTOR METAL OXIDE FILM 1K00HM 5% 1/2W | R804 |
| T8-NX56LA-PW7 | 18-FG0223-JSX | RMOF 2W +-5%22K Ω | R837 |
| T8-NX56LA-PW7 | 18-FH0473-JLX | RESISTOR METAL OXIDE FILM 47K00HM 5% 3WW | R812 |
| T8-NX56LA-PW7 | 18-KE0105-JNX | RES. GLASS GLAZE 1M OHM 1/2W +/-5% | R839 |
| T8-NX56LA-PW7 | 18-KE0475-JNX | RES. GLASS GLAZE 4.7M OHM 1/2W +/-5% | R801 |
| T8-NX56LA-PW7 | 18-KF0825-JH3 | RES. H. VOLT. CC 8.2M OHM 1W +/-5% | R838 |
| T8-NX56LA-PW7 | 18-MJ0108-JDX | RESISTOR CEMENTED 0R10HM 5% 5WW - | R806 |
| T8-NX56LA-PW7 | 22-NTC479-XX0 | NTC 4.7D2-14 | RT802 |
| T8-NX56LA-PW7 | 22-PTC909-3A5 | PTC MZ73BHL-9 Ω \pm 20% | RT801 |
| T8-NX56LA-PW7 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C844 |
| T8-NX56LA-PW7 | 25-BCB101-M1X | CAP.ELE 5MM 100UF 16VV 5X11 85 / | C842 |
| T8-NX56LA-PW7 | 25-BCB102-M1X | CAP.ELE 5MM 1000UF 16V 10X16 85 / | C833 |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C850 |
| T8-NX56LA-PW7 | 25-BDA222-M1S | CAP.ELE 5MM 2200UF 25VV 12.5X25 85 / | C832 |
| T8-NX56LA-PW7 | 25-BDB102-M1X | CAP.ELE 5MM 1000UF 25V 10*20 85 CD110 | C829 |
| T8-NX56LA-PW7 | 25-BDB102-M1X | CAP.ELE 5MM 1000UF 25V 10*20 85 CD110 | C827 |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C812 |
| T8-NX56LA-PW7 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C816 |
| T8-NX56LA-PW7 | 25-BFB100-M1X | CAP. ELEC 10 UF 50V +/-20% | C861 |
| T8-NX56LA-PW7 | 25-BJG331-M1X | CAP. ELEC 330 UF 160V +/-20% (18X40) | C824 |
| T8-NX56LA-PW7 | 25-BMJ221-M1S | CAP.ELE 10MM 200UF 400V 30*30 85 \ | C803 |
| T8-NX56LA-PW7 | 26-AIC103-MEX | CC 10NF +20% 500V E | C804 |
| T8-NX56LA-PW7 | 26-AIC103-MEX | CC 10NF +20% 500V E | C825 |
| T8-NX56LA-PW7 | 26-AKC331-KBX | CAP.CER 330P0F 1K0V - | C817 |
| T8-NX56LA-PW7 | 26-AKC471-KRX | CAP.CER 470P0F 1KV - | C805 |
| T8-NX56LA-PW7 | 26-AKC472-MEX | CAP. CER 4700 pF 1KV +/-20% | C801 |
| T8-NX56LA-PW7 | 26-AKC472-MEX | CAP. CER 4700 pF 1KV +/-20% | C802 |
| T8-NX56LA-PW7 | 26-AKL103-MFX | CAP. CER 10 NF 1KVDC +/-20% | C809 |
| T8-NX56LA-PW7 | 26-APL222-MEX | CAP. CER 2200PF 400VAC+/-20% E | CY803 |
| T8-NX56LA-PW7 | 26-APL471-KBX | CAP. CER 470PF 400VAC +/-10% B | CY801 |
| T8-NX56LA-PW7 | 26-APL471-KBX | CAP. CER 470PF 400VAC +/-10% B | CY802 |
| T8-NX56LA-PW7 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C814 |
| T8-NX56LA-PW7 | 26-EBP102-KBS | CAP.CER 1NF 50V - +/-10% B% | C838 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C831 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C830 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C828 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C813 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C839 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C851 |
| T8-NX56LA-PW7 | 26-EBP104-ZFS | CAP. CER 0.1UF 50V +80%/-20% | C834 |
| T8-NX56LA-PW7 | 27-AQT474-MV3 | CAP.M. PPO. 47UF275VAC+/-20% | CX802 |
| T8-NX56LA-PW7 | 27-MHW104-KOX | CAP. M.P.E 0.1 UF 400V +/-10% | C810 |
| T8-NX56LA-PW7 | 35-392170-OIX | FERR BEAD BF-I35050R-730 | L802 |
| T8-NX56LA-PW7 | 35-392170-OIX | FERR BEAD BF-I35050R-730 | L804 |
| T8-NX56LA-PW7 | 36-LIF005-XX1 | LINE FILTER LCL-2826A | LF802 |
| T8-NX56LA-PW7 | 36-LIF087-JX1 | LINE FILTER LGH2V-40UH | LF801 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J826 |

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| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J827 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J828 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J829 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J818 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J832 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J830 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J831 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J835 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J836 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J834 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J823 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J821 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J819 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J833 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J824 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J813 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J806 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J807 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J825 |
| T8-NX56LA-PW7 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J814 |
| T8-NX56LA-PW7 | 41-WJ0095-B00 | WIREBAREJUMPER9.5MM | J810 |
| T8-NX56LA-PW7 | 41-WJ0095-B00 | WIREBAREJUMPER9.5MM | J809 |
| T8-NX56LA-PW7 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J802 |
| T8-NX56LA-PW7 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | J801 |
| T8-NX56LA-PW7 | 41-WJ0125-B00 | WIREBAREJUMPER12.5MM | J820 |
| T8-NX56LA-PW7 | 46-10962W-02XG | PIN BASE *2 TJC2-2A | CN802 |
| T8-NX56LA-PW7 | 50-04000D-1GS1G | FUSE T4AL/250V | F801 |
| T8-NX56LA-PW7 | 64-P30080-104G | M/C SCREW P 3 X 8 | FOR Q801 |
| T8-NX56LA-PW7 | 66-20517X-0B7 | FUSE HOLDER | FOR F801 |
| T8-NX56LA-PW7 | 66-343740-0B0 | HOLLOW RIVET (2.3MMX4.0MMX3.5MM) | FOR C803 |
| T8-NX56LA-PW7 | 67-H38012-VA0 | RAW HEATSINK -- 01 00 R=Y | Y801 |
| T8-NX56LA-PW7 | 71-DYP000-WX1 | LABEL | FOR Y801 |
| T8-NX56LA-PW7 | 41-WJ0125-B00 | WIREBAREJUMPER12.5MM | J811 |
| T8-NX56LA-PW7 | 46-35063W-03XG | PIN BASE *3 VH-3A | CN803 |
| T8-NX56LA-PW7 | 66-343740-0B0 | HOLLOW RIVET (2.3MMX4.0MMX3.5MM) | FOR CN803 |
| T8-NX56LA-PW7 | 18-CE0332-JNX | RES. C.F. 3.3K OHM 1/2W +/-5% | R841 |
| T8-NX56LA-PW7 | 26-AIC221-KBX | CAP. CER 220P0F 500VV - | C822 |
| T8-NX56LA-PW7 | 26-EBP681-JCS | CAP. CER 680 PF 50V +/-5% | C815 |
| T8-NX56LA-PW7 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R851 |
| T8-NX56LA-PW7 | 18-CB0470-JNX | RES. C.F. 47 OHM 1/6W +/-5% | R811 |
| T8-NX56LA-PW7 | 26-EBP473-ZFS | TCL26-EBP473-ZFS= CAP. CER 47NF 50V +80/ | C806 |
| T8-NX56LA-PW7 | 36-TRF325-AX1 | TRANSFORMER BCK-4216 | T801 |
| T8-NX56LA-PW7 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | C823 |
| T8-NX56LA-PW7 | 26-EBP561-JCS | CAP. CEP 560PF 50V +/-5% | C807 |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP. ELE 5MM 47UF 25VV 5X11 85 / | C843A |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP. ELE 5MM 47UF 25VV 5X11 85 / | C847 |
| T8-NX56LA-PW7 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D814 |
| T8-NX56LA-PW7 | 10-1N4148-ABX | DIODE 1N4148 (SWITCHING) | D815 |
| T8-NX56LA-PW7 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR C824 |
| T8-NX56LA-PW7 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR T801 |
| T8-NX56LA-PW7 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J822 |
| T8-NX56LA-PW7 | 41-WJ0085-B00 | WIREBAREJUMPER8.5MM | J837 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J839 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J840 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J841 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J842 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J843 |
| T8-NX56LA-PW7 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | J844 |
| T8-NX56LA-PW7 | 41-WJ0055-B00 | WIREBAREJUMPER5.5MM | J845 |
| T8-NX56LA-PW7 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | JP807 |

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| T8-NX56LA-PW7 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | JP808 |
| T8-NX56LA-PW7 | 41-WJ0100-B00 | WIREBAREJUMPER10MM | JP809 |
| T8-NX56LA-PW7 | 11-2N5551-CBX | TR 160V 0.6 A NPN 0.625W 100MHZ TO-92 2N | Q802 |
| T8-NX56LA-PW7 | 11-KTD863-OBX | TRANSISTOR KTD863 | Q804 |
| T8-NX56LA-PW7 | 11-SA1015-YBX | TR 50VV 150MA A PNP 0.4W 80MHZ TO-92 ST2 | Q805 |
| T8-NX56LA-PW7 | 18-FG0183-JSX | RMOF 18KOHM +/-5% 2W R=Y | R814 |
| T8-NX56LA-PW7 | 18-FF0221-JSX | RES.M.O.F 1.0W 1.0W 220 OHM +/-5% | R816A |
| T8-NX56LA-PW7 | 18-FF0680-JSX | RESISTOR 金属氧化膜 680HM +/-5% 1W RS1FS | R817 |
| T8-NX56LA-PW7 | 18-CB0821-JNX | RES. C.F. 820 OHM 1/6W +/-5% | R818 |
| T8-NX56LA-PW7 | 18-FG0569-JSX | RMOF 5.60HM +/-5% 2W R=Y | R846 |
| T8-NX56LA-PW7 | 18-CB0472-JNX | CARBON RES. C.F. 4.7K OHM 1/6W +/-5% | R854 |
| T8-NX56LA-PW7 | 10-79C4V7-DBX | D-PR /A / V 4.7V BZX79C4V7 | ZD804 |
| T8-NX56LA-PW7 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | J803 |
| T8-NX56LA-PW7 | 26-AIC221-KBX | CAP.CER 220P0F 500VV - | C819 |
| T8-NX56LA-PW7 | 26-AIC221-KBX | CAP.CER 220P0F 500VV - | C820 |
| T8-NX56LA-PW7 | 18-FE0100-JNX | RESISTOR METAL OXIDE FILM 10R00HM 5% 1/2 | R842 |
| T8-NX56LA-PW7 | 26-AIC681-KBX | CAP. CER 680 PF 500V +/-10% B | C821 |
| T8-NX56LA-PW7 | 18-CB0273-JNX | RES. C.F. 27K OHM 1/6W +/-5% | R853 |
| T8-NX56LA-PW7 | 26-AKC152-KRX | CAP. CER 1500 pF 1KV +/-10% | C811A |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C835 |
| T8-NX56LA-PW7 | 26-EBP103-ZFS | CAP.CER 10NF 50V +80% -20% | C845 |
| T8-NX56LA-PW7 | 18-RG0478-JSX | RESISTOR 线绕电阻 0.470HM +/-5% 2W KN2W/ | R845 |
| T8-NX56LA-PW7 | 25-BHB470-M1X | CAP.ELE 5MM 47UF 100V 10*16 85 B41827系 | C846 |
| T8-NX56LA-PW7 | 10-79C18V-DBX | D-PR /A /_V 18V BZX79C18 | '-' TO C847'+' , '+' TO C847 '-' |
| T8-NX56LA-PW7 | 10-1N5407-FPX | D-FSR 1N5407 800V 3A R=Y | DB804 |
| T8-NX56LA-PW7 | 10-1N5407-FPX | D-FSR 1N5407 800V 3A R=Y | DB803 |
| T8-NX56LA-PW7 | 10-1N5407-FPX | D-FSR 1N5407 800V 3A R=Y | DB802 |
| T8-NX56LA-PW7 | 10-1N5407-FPX | D-FSR 1N5407 800V 3A R=Y | DB801 |
| T8-NX56LA-PW7 | 10-00RU4C-FPX | D-FSR RU4C 1000V 2.5A R=Y | D808 |
| T8-NX56LA-PW7 | 10-0RU4YX-FPX | D-FSR GRU4YX 100V 4A R=Y | D812 |
| T8-NX56LA-PW7 | 25-BDB470-M1X | CAP.ELE 5MM 47UF 25VV 5X11 85 / | C826 |
| T8-NX56LA-PW7 | 10-79C8V2-DBX | D-ZENER BZX55C8V2 8.2V 500MIOW R=N | ZD805 |
| T8-BM62SAE-MA3HM | T8-NX56LA-AV1 | ASS'Y - AV PARTSKIT | |
| T8-NX56LA-AV1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JE901 |
| T8-NX56LA-AV1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JE902 |
| T8-NX56LA-AV1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JE903 |
| T8-NX56LA-AV1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JE904 |
| T8-NX56LA-AV1 | 41-WJ0050-B00 | TCL41-WJ0050-B00= WIRE BARE JUMPER 5MM R | JE905 |
| T8-NX56LA-AV1 | 47-RCA243-XX1G | SOCKET-RCA 9 RD-BU-GN-RD-WH-YW R | P901 |
| T8-NX56LA-AV1 | 41-WJ0075-B00 | WIREBAREJUMPER7.5MM | JE906 |
| T8-BM62SAE-MA3HM | T8-BM62SAE-OT3 | ASS'Y - OTHER PARTSKIT | |
| T8-BM62SAE-OT3 | 07-457FF5-NA9G | TUNER F07GP-4ND-E | TU101 |
| T8-BM62SAE-OT3 | 45-SAWD15-39COD | SAW FILTER 45.75MHZ D1539C | Z201 |
| T8-BM62SAE-OT3 | 13-TDA111-45P | IC MCU(WRITE) | IC201 (CP) |
| T8-BM62SAE-OT3 | 70-271510-00A | SERVICE CARD | FOR PRODUCTION USE |
| T8-BM62SAE-OT3 | 71-270870-0A9 | LABEL | |
| T8-BM62SAE-OT3 | 90-0DSTG1-SR1U | HEAT SINK DSTG-1 | |
| T8-BM62SAE-OT3 | 46-33079W-04XG | PIN BASE *4 TJC3-4A | P202 (PIN1-PIN4) |
| T8-BM62SAE-OT3 | 46-33079W-02XG | PIN BASE *2 TJC3-2A | P204 |
| T8-BM62SAE-OT3 | 46-33079W-05XG | PIN BASE *5 TJC3-5A | P902 |
| T8-BM62SAE-OT3 | 51-DC0220-OCN01G | POWER CORD 2200MM Y B05899 | |
| T8-BM62SAE-OT3 | 18-EE0109-JSX | FR 10HM 1/2W 立式编带 ≤30S N RF10S | R465 |
| T8-BM62SAE-OT3 | 46-40331H-04XG | WIRE UL1007 300MM 4 | RED-A/BLUE-C/GREEN-B/YELLOW-D |
| T8-BM62SAE-OT3 | 46-CD045T-06K01G | WIRE CRT板 RGB 6排线 450MM 6 TJC3 SCN 2. | P201 |
| T8-BM62SAE-OT3 | 46-CD040T-04K01G | WIRE UL2468#26 400MM 4 2.5MM | S402 |
| T8-BM62SAE-MA3SM | T8-BM63SAE-DP2 | ASS'Y - DPC PARTSEQU | |
| T8-BM63SAE-DP2 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D410 |
| T8-BM63SAE-DP2 | 10-0FR104-FBX | DIODE FR104 (FAST RECTIFIER) | D411 |

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| T8-BM63SAE-DP2 | 18-FG0332-JHX | RESISTOR METAL OXIDE FILM 3K30HM 5% 2WW | R412 |
| T8-BM63SAE-DP2 | 18-FG0399-JHX | RESISTOR METAL OXIDE FILM 3R90HM 5% 2WW | R440 |
| T8-BM63SAE-DP2 | 18-FG0399-JHX | RESISTOR METAL OXIDE FILM 3R90HM 5% 2WW | R411 |
| T8-BM63SAE-DP2 | 27-AGQ394-JSX | TCL27-AGQ394-JSX= CAP. M.PP 0.39UF 250VA | C435 |
| T8-BM63SAE-DP2 | 27-AHQ154-JSX | CAP. M.PP 0.15UF 400V +/-5% | C432 |
| T8-BM63SAE-DP2 | 36-WID102-XX1 | COIL WIDTH 1 MH | L406 |
| T8-BM63SAE-DP2 | 36-WID153-XX1 | COIL CHOKE 15 MH | L407 |
| T8-BM63SAE-DP2 | 36-WID171-XX3 | COIL WIDTH L171AHA | L405 |
| T8-BM63SAE-DP2 | 40-29M76S-DPB1XG | TV PCB DP BD R=Y | |
| T8-BM63SAE-DP2 | 46-39402W-04XG | BASE | P401 |
| T8-BM63SAE-DP2 | 48-SLI001-XX0 | SW. CHANNEL BAND SELECTOR KFC-G02 | K401 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR L407 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR L406 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR L405 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR C434 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR C433 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR C432 |
| T8-BM63SAE-DP2 | 66-343730-0B0 | HOLLOW RIVET 1.6MMX3.0MMX3.2MM | FOR C431 |
| T8-BM63SAE-DP2 | 66-343740-0B0 | HOLLOW RIVET (2.3MMX4.0MMX3.5MM) | FOR P401 |
| T8-BM63SAE-DP2 | 27-ALR912-J0X | CAP. M.PP 9100 PF 1.6KV +/-5% | C434 |
| T8-BM62SAE-MA3SM | T8-BM63SAE-KE5 | ASS'Y - KEY BDEQU | |
| T8-BM63SAE-KE5 | 18-CB0471-JNX | RES. C.F. 470 OHM 1/6W +/-5% | R1001 |
| T8-BM63SAE-KE5 | 18-CB0561-JNX | RES. C.F. 560 OHM 1/6W +/-5% | R006 |
| T8-BM63SAE-KE5 | 18-CB0102-JNX | RES. C.F. 1K OHM 1/6W +/-5% | R1005 |
| T8-BM63SAE-KE5 | 18-CB0271-JNX | RES. C.F. 270 OHM 1/6W +/-5% | R1003 |
| T8-BM63SAE-KE5 | 18-CB0331-JNX | RES. C.F. 330 OHM 1/6W +/-5% | R1002 |
| T8-BM63SAE-KE5 | 40-N29M71-KEG1XG | TV PCB KEY BD R=Y | |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K004 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K005 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K006 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K001 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K002 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K003 |
| T8-BM63SAE-KE5 | 41-WJ0075-B00 | WIREBARE JUMPER 7.5MM | J1001 |
| T8-BM63SAE-KE5 | 18-CB0222-JNX | RES. C.F. 2.2K OHM 1/6W +/-5% | R1009 |
| T8-BM63SAE-KE5 | 48-TAC002-XX0 | TACT SWITCH | K007 |
| T8-BM63SAE-KE5 | 46-CE060T-02K01G | WIRE UL2468#26 600MM 2 2.5MM | P1003 TO M.BD P204 |
| 03-BM62SAE-CL12S | V8-NX56BLA-TM4V508 | SOFTWARE SOFTWARE SOFTWARE CODE | IC201 (CP) |

