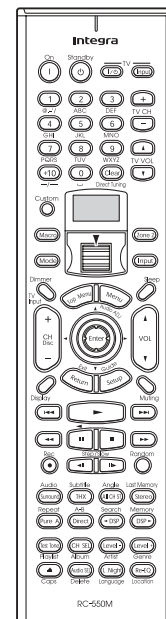
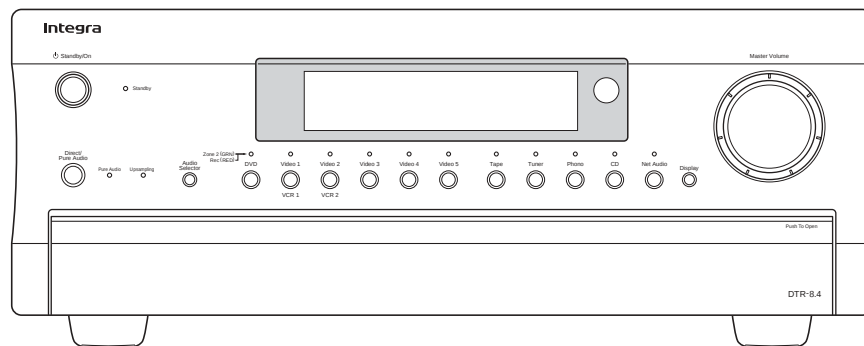


Integra SERVICE MANUAL

AV RECEIVER MODEL DTR-8.4



Black model

BMDD	120V, AC 60Hz
BMPA	230~240V, AC 50Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Amplifier Section

Power output: All channels:	110 W (8Ω , 20 Hz~20 kHz, FTC) (American Model) 150 W (6 Ω , 1 kHz, DIN) (Australian model)
Dynamic power:	2 x 280 W (3 Ω , front) 2 x 220 W (4 Ω , front) 2 x 140 W (8 Ω , front)
THD (total harmonic distortion):	0.08% (rated power)
Damping factor:	60 (8 Ω)
Input sensitivity and impedance:	200 mV/50k Ω (LINE) 2.5 mV/50k Ω (PHONO MM)
Output level and impedance:	200 mV/470 Ω (REC OUT)
Phono overload:	120 mV (MM, 1 kHz, 0.5%)
Frequency response:	5 Hz~100 kHz/+1 dB, ~-3 dB (CD, Direct)
Tone control:	$\pm$ 10 dB, 50 Hz (BASS) $\pm$ 10 dB, 20,000 Hz (TREBLE)
S/N ratio (Direct mode):	110 dB (LINE, IHF-A, 0.5 V input) 80 dB (PHONO, IHF-A, 5 mV input)
Speaker impedance:	4~16

Video Section

Input sensitivity, output level and impedance:	1.0 Vp-p/75 Ω (component and S-Video Y) 0.7 Vp-p/75 Ω (component P _B /C _B , P _R /C _R) 0.286 Vp-p/75 Ω (S-Video C) 1.0 Vp-p/75 Ω (composite)
Component video frequency response:	5 Hz~50 MHz

Tuner Section

FM

Tuning frequency range:	87.5~108.0 MHz
Usable sensitivity:	FM STEREO 17.2 dBf, 2.0 μ V (75 Ω IHF) FM MONO 11.2 dBf, 1.0 μ V (75 Ω IHF)
S/N ratio:	FM STEREO 70 dB (IHF-A) FM MONO 76 dB (IHF-A)
THD:	FM STEREO 0.3% FM MONO 0.2%
FM stereo separation:	45 dB at 1 kHz, 30 dB at 100 Hz~10 kHz

AM

Tuning frequency range:	530~1710 kHz (American model) 522~1611 kHz (Australian model)
Usable sensitivity:	30 μ V
S/N ratio:	40 dB
THD:	0.7%

General

Power supply:	American model: AC 120 V, 60 Hz Australian model: AC 230~240 V, 50 Hz
Power consumption:	American model: 9.0 A Australian model: 670 W
Standby power consumption:	2.5 W
Dimensions (W x H x D):	17-1/8" x 6-7/8" x 18-1/8" (435 x 175 x 460 mm)
Weight:	40.8 lbs. (18.5 kg)

Video Inputs

Component video inputs:	2 (Input 1, Input 2)
S-Video inputs:	6 (DVD, Video 1~5)
Video inputs:	6 (DVD, Video 1~5)

Video Outputs

Component video outputs:	1 (Component Monitor Out)
S-Video outputs:	3 (Video 1 Out, Video 2 Out, Video Monitor Out)
Video outputs:	4 (Video 1 Out, Video 2 Out, Video Monitor Out, Zone 2 Video Out)

Audio Inputs

Digital inputs:	8 (Optical 1~4, Optical Video 5 (fixed, on front panel), Coaxial 1~3)
Analog inputs:	9 (CD, Phono, Tape, DVD, Video 1~4, Video 5)
Multichannel analog inputs:	7.1 ch (Front L/R, Center, Surround L/R, Surround Back L/R, Subwoofer)

Audio Outputs

Digital outputs:	2 optical
Analog outputs:	4 (Tape Out, Video 1 Out, Video 2 Out, Zone 2 Out)
Pre outs:	8 (Front L/R, Center, Surround L/R, Surround Back L/R or Zone 2 L/R, Subwoofer)
Subwoofer pre out:	1
Speaker outputs:	7
Phones:	1

Other Sockets

RS-232:	1
IR in/out:	1
12V trigger out:	3
Ethernet (Net-Tune)	1 (10Base-T, RJ45)

Specifications and features are subject to change without notice.

SERVICE PROCEDURES

1. Replacing the fuses

 This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

 Ce symbole indique que le fusible utilise est a rapide. Pour une protection permanente, n'utiliser que fusibles de meme type. Ce dernier est la qu le present symbol est appse.

REF. NO.	PART NO.	DESCRIPTION
F901	252196	12A-UL/T-314,Fuse <D>
F902	252078	5A-SE-EAK,
	252244 or	5A-SE-TL250V or
	252278	5A-SE-TL250V, Fuse <A>
F903	252164 or	5A-UL/T-237 or
	252258	5A-T/UL-ST2,Fuse <D>
	252075,	2.5A-SE-EAK,
	252241 or	2.5A-SE-TL250V or
	252275	2.5A-SE-TL250V,Fuse <A>
F9501,F9502	252160 or	2.5A-UL/T-237 or
	252254	2.5A-T/UL-ST2,Fuse <D>
	252075,	2.5A-SE-EAK,
	252241 or	2.5A-SE-TL250V or
	252275	2.5A-SE-TL250V,Fuse <A>
F9503,F9504	252158 or	1.6A-UL/T-237 or
	252252	1.6A-T/UL-ST2,Fuse <D>
	252073,	1.6A-SE-EAK,
	252239 or	1.6A-SE-TL250V or
	252273	1.6A-SE-TL250V,Fuse <A>

Note: <D>: 120V model only
<A>: Australian model only

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.

To perform a result, please follow the procedure below.

- 1.Press the STANDBY ON button to turn on the unit.
- 2.Press and hold down the VIDEO 1 button, then press the STANDBY/ON button.
- 3.After "CLEAR" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.
- 4.Unplug the power supply cord.

3. Safety-check out

(U.S.A. model only)

After correcting the original service problem, perform the following safety check before releasing the set to the customer.

Leakage Current Check

Measure leakage current to a known earth ground(water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and exposed metal parts of the appliance (input/output terminals, screwheads,metal overlays, etc.).

Plug the power supply cord directly into a 120V AC 60 Hz outlet and turn Standby switch on. Any current measured must not exceed 0.5mA.

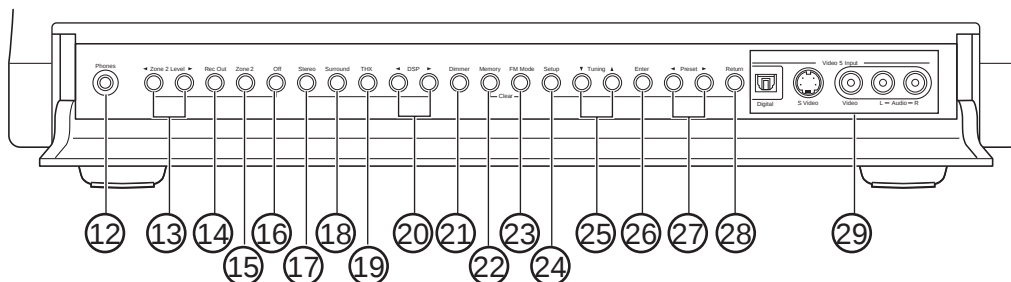
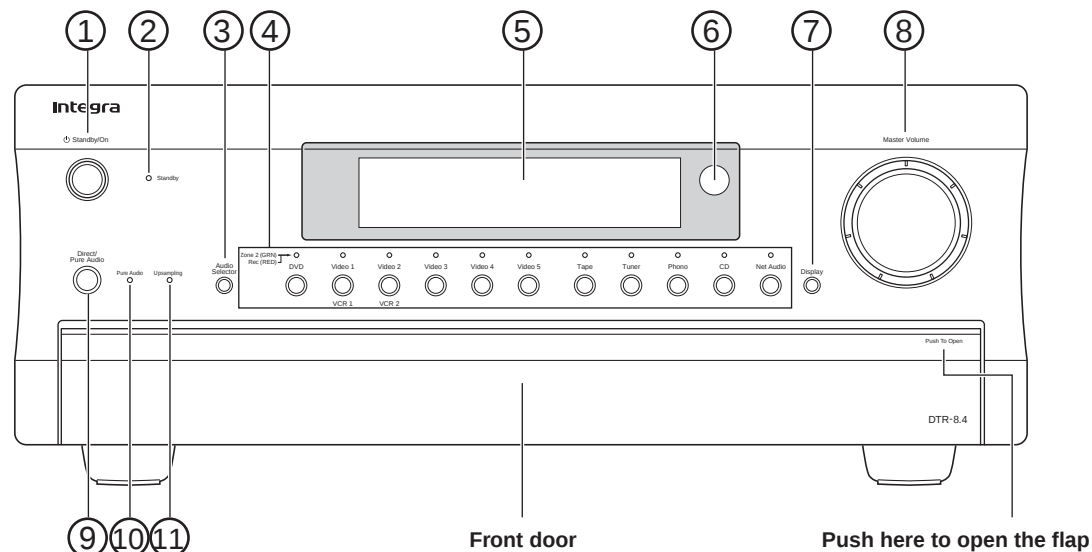
4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged.The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged.This period is shorter when the unit is exposed to a highly humid climate.

PANEL VIEWS

FRONT PANEL



① Standby/On button

This button is used to set the DTR-8.4 to On or Standby.

② Standby indicator

This indicator lights up when the DTR-8.4 is in Standby mode, and it flashes while a signal is being received from the remote controller.

③ Audio Selector button

This button is used to select the audio input signal format: analog, digital, or multichannel.

④ Input selector buttons & indicators

These buttons are used to select the following input sources: DVD, VIDEO 1-5, TAPE, TUNER, PHONO, CD, and NET AUDIO. The indicators show the currently selected input source.

The indicators also show which input source is selected for Zone 2, in which case they light up green, or which input source is selected for recording (REC OUT), in which case they light up red.

⑤ Display

See "Display" on page 3.

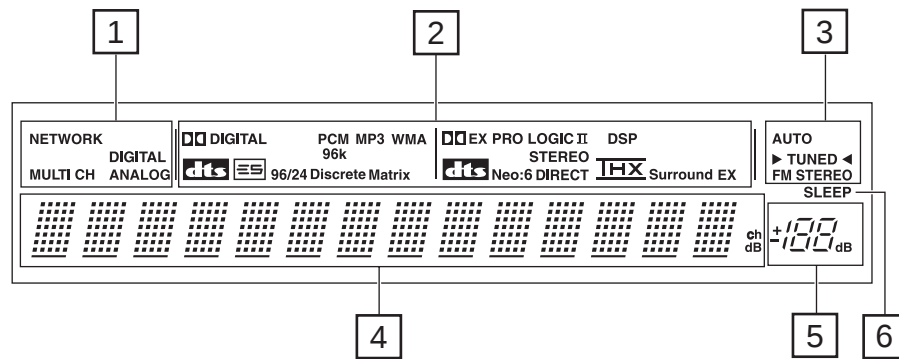
PANEL VIEWS

FRONT PANEL

- ⑥ **Remote-control sensor**
This sensor receives control signals from the remote controller.
- ⑦ **Display button**
This button is used to display various information about the currently selected input source.
- ⑧ **Master Volume control**
This control is used to set the volume of the DTR-8.4 from 0 to 100.
- ⑨ **Direct/Pure Audio button**
This button is used to select the Direct or Pure Audio listening modes.
- ⑩ **Pure Audio indicator**
This indicator lights up when the Pure Audio listening mode is selected.
- ⑪ **Upsampling indicator**
This indicator lights up when the Upsampling function is on.
- ⑫ **Phones jack**
This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening.
- ⑬ **Zone 2 Level [◀] [▶] buttons**
These buttons are used to set the volume for Zone 2.
- ⑭ **Rec Out button**
This button is used to select the input source that you want to record via the REC OUTs (i.e., TAPE OUT, VIDEO 1 OUT, VIDEO 2 OUT).
- ⑮ **Zone 2 button**
This button is used to select the input source for Zone 2.
- ⑯ **Off button**
This button is used to turn off the REC OUTs (i.e., TAPE OUT, VIDEO 1 OUT, VIDEO 2 OUT) or Zone 2.
- ⑰ **Stereo button**
This button is used to select the Stereo listening mode.
- ⑱ **Surround button**
This button is used to select the Dolby and DTS listening modes.
- ⑲ **THX button**
This button is used to select the THX listening modes.
- ⑳ **DSP [◀] [▶] buttons**
These buttons are used to select the DSP (digital signal processor) listening modes.
- ㉑ **Dimmer button**
This button is used to adjust the display brightness.
- ㉒ **Memory button**
This button is used when storing and deleting radio presets.
- ㉓ **FM Mode button**
This button is used to select the FM radio Auto and Mono modes.
- ㉔ **Setup button**
This button is used to access the onscreen setup menus (OSD) that appear on the TV.
- ㉕ **Tuning [▲] [▼] buttons**
These buttons are used to tune into radio stations and to select items on the onscreen setup menus (OSD).
- ㉖ **Enter button**
This button is used when navigating the onscreen setup menus (OSD), entering names, and confirming settings.
- ㉗ **Preset [◀] [▶] buttons**
These buttons are used to select radio presets and to select items on the onscreen setup menus (OSD).
- ㉘ **Return button**
This button is used to return to the previously displayed onscreen setup menu (OSD).
- ㉙ **Video 5 Inputs**
These optical digital audio, S-Video, composite video, and analog audio inputs can be used to connect a camcorder, games console, and so on.

PANEL VIEWS

DISPLAY



1 Audio input format indicators

These indicators show the audio input format for the currently selected input source.

2 Listening mode & digital audio format indicators

These indicators show the currently selected listening mode and digital audio format.

3 Tuning indicators

AUTO indicator:

This indicator lights up when the tuner is tuned to an FM station and Stereo mode is selected. It goes off when Mono mode is selected.

TUNED indicator:

This indicator lights up when the tuner is tuned into an AM or FM station.

FM STEREO indicator:

This indicator lights up when the tuner is tuned to a stereo FM station. It goes off when Mono mode is selected.

4 Multipurpose display area

Normally, the name of the currently selected input source is displayed here. When you select the AM or FM input source, the radio frequency and preset number are displayed. If you press the [Display] button, the currently selected listening mode and digital audio format are displayed.

5 Volume level

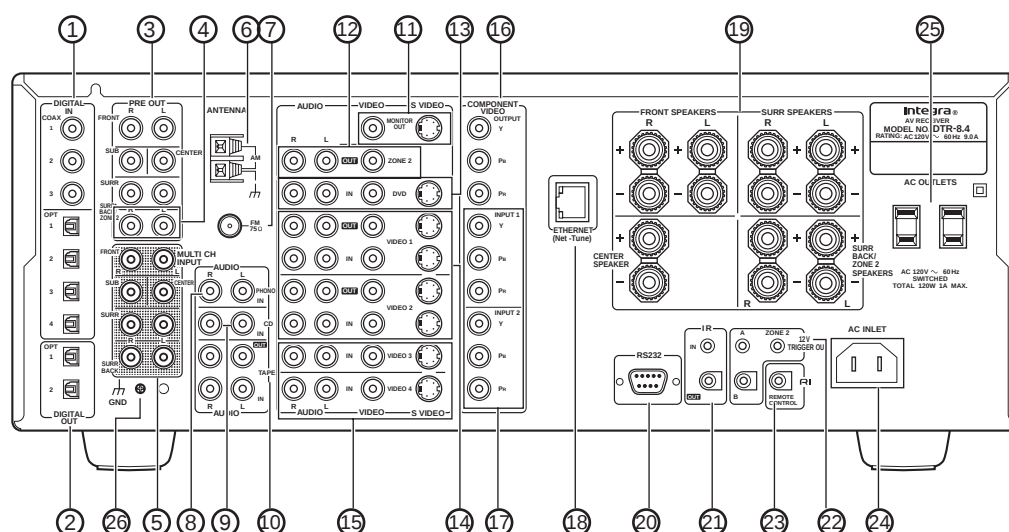
The volume level is displayed here.

6 SLEEP indicator

This indicator lights up when the Sleep function has been set.

PANEL VIEWS

REAR PANEL



① DIGITAL IN COAX 1~3, OPT 1~4

These coaxial and optical digital audio inputs can be used to connect CD, DVD, or LD (laser disc) players and other components with digital audio outputs.

② DIGITAL OUT OPT 1 & 2

These optical digital audio outputs can be used to connect a CD recorder or other digital recorder with digital inputs.

③ PRE OUT- FRONT L/R, SUB, CENTER, SURR L/R

If you use the DTR-8.4 as a preamp, these analog audio outputs can be connected to the inputs on a separate power amp. The SUB output is used to connect a powered subwoofer.

④ PRE OUT-SURR BACK/ZONE 2

These analog audio outputs can be used to feed the L/R surround back inputs on a separate power amp when the DTR-8.4 is used as a preamp, or to feed a power amp in Zone 2.

⑤ MULTI CH INPUT-FR ONT L/R, SUB, CENTER, SURR L/R, SURR BACK L/R

These analog audio inputs can be used to connect AV components with multiple analog audio outputs, including DVD players with individual 5.1/7.1 surround analog audio outputs.

⑥ AM ANTENNA

These push terminals are for connecting an AM antenna.

⑦ FM ANTENNA

This connector is for connecting an FM antenna.

⑧ PHONO IN

These analog inputs can be used to connect a turntable with a moving-magnet cartridge.

⑨ CD IN

These analog inputs can be used to connect a CD player with analog outputs.

PANEL VIEWS

REAR PANEL

⑩ TAPE IN/OUT

These analog inputs and outputs can be used to connect a cassette recorder, Mini Disc recorder, or other recorder with analog inputs and outputs.

⑪ MONITOR OUT

This S-Video or composite video output can be connected to the video input on your TV or projector.

⑫ ZONE 2 OUT

These composite video and analog audio outputs can be used to feed a TV and an integrated amp in Zone 2.

⑬ DVD IN

These S-Video, composite video, and analog audio inputs can be used to connect a DVD player.

⑭ VIDEO 1 & 2 IN/OUT

These S-Video, composite video, and analog audio inputs and outputs can be used to connect one or two video recorders (e.g., VCRs).

⑮ VIDEO 3 & 4 IN

These S-Video, composite video, and analog audio inputs can be used to connect one or two video sources (e.g., cable TV, satelliteTV, or a set-top box).

⑯ COMPONENT VIDEO OUTPUT

This component video output can be used to connect a TV or projector with a component video input.

⑰ COMPONENT VIDEO INPUT 1 & 2

These component video inputs can be used to connect one or two AV components with component video outputs, such as a DVD player.

⑱ ETHERNET (Net-Tune)

This port is for connecting the DTR-8.4 to your Ethernet network (i.e., router or switch) for use with Net-Tune (i.e., Internet radio and MP3 and WAV playback).

⑲ SPEAKERS

These terminal posts are for connecting your speakers. The SURR BACK/ZONE 2 terminals can be used with surround back speakers in the main room or speakers in another room (Zone 2).

⑳ RS232

This port is for connecting the DTR-8.4 to home automation and external controllers.

㉑ IR IN/OUT

If you want to use the remote controller to control the DTR-8.4 from Zone 2, or if the DTR-8.4 is installed in a cabinet and the line of sight between the DTR-8.4 and the remote controller is obstructed, a commercially available IR receiver can be connected to the IR IN. A commercially available IR emitter can be connected to the IR OUT to pass the IR signals along to another AV component.

㉒ 12V TRIGGER OUT ZONE 2/A/B

These outputs can be connected to the 12-volt trigger inputs on other components. They output 12 volts (100 milliamperes max). The ZONE 2 TRIGGER OUT outputs 12 volts while the DTR-8.4 is in Zone 2 mode. The A and B outputs can be assigned to input sources, in which case, the assigned trigger output outputs 12 volts while the input source is selected.

㉓ RI REMOTE CONTROL

This **RI** (Remote Interactive) socket can be connected to the **RI** socket on another Integra/Onkyo AV component. The DTR-8.4's remote controller can then be used to control that component. To use **RI**, you must make an analog RCA/phono audio connection between the DTR-8.4 and the other AV component, even if they are connected digitally.

㉔ AC INLET

The supplied power cord should be connected here.

㉕ AC OUTLETS

These switched AC outlets can be used to supply power to other AV components. The connector type depends on the country in which you purchased your DTR-8.4.

㉖ Grounding screw

This screw is for connecting a turntable's ground wire.

PANEL VIEWS

REMOTE CONTROLLER

The DTR-8.4's remote controller is a multipurpose device that can be used to control not just the DTR-8.4 but your other AV components as well. This section explains how it's various operating modes can be used to control the DTR-8.4 and various **RI**-compatible Integra/Onkyo components.

Amp Mode

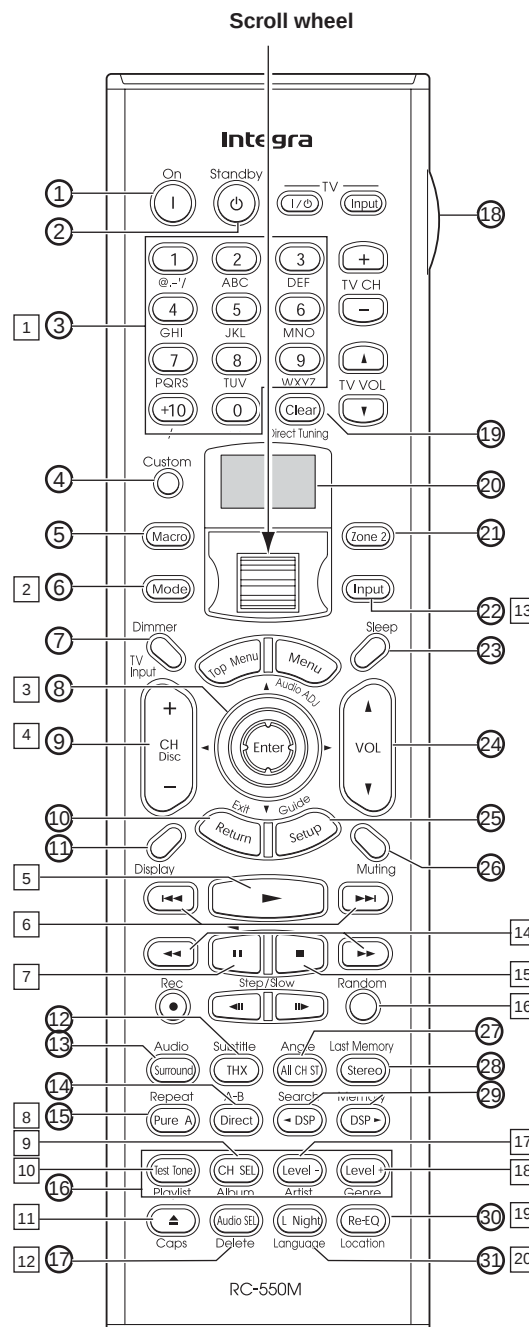
Amp mode is used to control the DTR-8.4. **To select Amp mode, press the scroll wheel. "AMP" appears on the display**

Note:

While neither the [Input] button nor [Mode] button is illuminated, rolling the scroll wheel changes the input source and remote controller mode simultaneously. Boxed numbers are for Net-Tune mode.

- ① **On button**
This button is used to turn on the DTR-8.4.
- ② **Standby button**
This button is used to set the DTR-8.4 to Standby.
- ③ **Number/letter buttons**
These buttons are used to enter numbers and letters.
- ④ **Custom button**
This button is used to access various settings that you can use to customize the operation of the remote controller.
- ⑤ **Macro button**
This button is used with the Macro function.
- ⑥ **Mode button**
This button is used with the scroll wheel to select the remote controller modes.
- ⑦ **Dimmer button**
This button is used to adjust the display brightness.
- ⑧ **Up/Down/Left/Right [▲]/[▼]/[◀]/[▶] & Enter buttons**
These buttons are used to select items on the onscreen setup menus (OSD). The Enter button is also used to enter names and to confirm settings.
- ⑨ **CH/Disc button**
This button is used to select radio presets.
- ⑩ **Return/Exit button**
This button is used to return to the previously displayed onscreen setup menu (OSD).
- ⑪ **Display button**
This button is used to display various information about the currently selected input source.
- ⑫ **THX button**
This button is used to select the THX listening modes.

- ⑬ **Surround button**
This button is used to select the Dolby and DTS listening modes.
- ⑭ **Direct button**
This button is used to select the Direct listening mode.
- ⑮ **Pure A button**
This button is used to select the Pure Audio listening mode.



PANEL VIEWS

REMOTE CONTROLLER

①⑥ Test Tone, CH SEL, Level- & Level+ buttons

These buttons are used to adjust the level of each speaker individually. These functions can be set only with the remote controller. The [Level-] and [Level+] buttons are also used to adjust the volume in Zone 2.

①⑦ Audio SEL button

This button is used to select the audio input signal format: analog, digital, or multichannel.

①⑧ Light button

This button is used to turn on or off the remote controller's illuminated buttons.

①⑨ Direct Tuning button

This button is used with the number buttons to select a radio station by entering its frequency. Press this button first, and then use the number buttons to enter the frequency.

②⑦ Display

The top line of this LCD display shows the name of the currently selected input source. The bottom line shows the currently selected remote controller mode.

②① Zone 2 button

This button is used when you want to set the volume and input source for Zone 2.

②② Input button

This button is used to select the input source. Press this button first, and then roll the scroll wheel until the name of the input source appears on the display.

②③ Sleep button

This button is used to set the Sleep function. This function can be set only with the remote controller.

②④ VOL button

This button is used to set the volume of the DTR-8.4.

②⑤ Setup/guide button

This button is used to access the onscreen setup menus (OSD) that appear on the TV.

②⑥ Muting button

This button is used to mute the DTR-8.4. This function can be set only with the remote controller.

②⑦ All CH ST button

This button is used to select the All Ch Stereo listening mode.

②⑧ Stereo button

This button is used to select the Stereo listening mode.

②⑨ [◀DSP] & [DSP▶] buttons

These buttons are used to select the DSP (digital signal processor) listening modes.

③⑦ Re-EQ button

This button is used to turn on and off the Re-EQ function.

③① L Night button

This button is used to set the Late Night function.

Net-Tune Mode

Net-Tune mode is used with the Net-Tune functions. **To select Net-Tune mode, press the [Mode] button, and then roll the scroll wheel until "NET-T" appears on the display .**

Note:

While neither the [Input] button nor [Mode] button is illuminated, the scroll wheel changes the input source and remote controller mode simultaneously. (e.g., set the input source to "MSRV/IRD" and the mode to "NET-T.")

① Number/letter buttons

These buttons are used to enter numbers and letters when searching for music in your network audio server music library.

② Mode button

This button is used with the scroll wheel to select the remote controller modes. Press this button first, and then roll the scroll wheel until "NET-T" appears on the display .

③ Up/Down/Left/Right [▲]/[▼]/[◀]/[▶] & Enter buttons

These buttons are used to navigate Internet radio and network audio server menus. The Enter button is used to confirm items and to start playback of Net-Tune server tracks.

④ CH/Disc button

This button is used to select Internet radio presets.

⑤ Play [▶] button

This button is used to start playback of network audio server tracks.

⑥ Previous/Next [◀◀]/[▶▶] buttons

The Previous [◀◀] button is used to select the previous track. During playback it selects the beginning of the current track. The Next [▶▶] button is used to select the next track.

⑦ Pause [⏸] button

This button is used to pause playback.

⑧ Repeat button

This button is used for repeat playback.

⑨ Album button

This button is used to search your network audio server music library by album.

⑩ Playlist button

This button is used to search your network audio server library by playlist.

PANEL VIEWS

REMOTE CONTROLLER

11 Caps button

This button is used to select lowercase letters, uppercase letters, and numbers when searching for network audio server music by album, artist, or playlist.

12 Delete button

This button is used to delete characters entered with the number/letter buttons.

13 Input button

This button is used to select the input source. Press this button first, and then roll the scroll wheel until "MSRV" (network audio server) or "IRD" (Internet Radio) appears on the display.

14 FR/FF [◀◀]/[▶▶] buttons

The FR [◀◀] button is used to start fast reverse. The FF [▶▶] button is used to start fast forward.

15 Stop [■] button

This button is used to stop playback.

16 Random button

This button is used for random playback.

17 Artist button

This button is used to search your network audio server music library by artist.

18 Genre button

This button is used to search your network audio server music library by genre, and to search for Internet radio stations by genre.

19 Location button

This button is used to search for Internet radio stations by country.

20 Language button

This button is used to search for Internet radio stations by language.

Connecting your **RI**-compatible Integra/Onkyo DVD player, CD player, MiniDisc recorder, or cassette recorder to the DTR-8.4's **RI** socket allows you to control it with the DTR-8.4's remote controller. You only need to point the remote controller at the DTR-8.4.

To use the **RI** function, you must make an **RI** connection and an analog RCA/phono audio connection between the AV component and your DTR-8.4, even if they are connected digitally.

DVD Mode

DVD mode is used to control an Integra/Onkyo DVD player connected to the DTR-8.4 via **RI**. **To select DVD mode, press the [Mode] button, and then roll the scroll wheel until "DVD" appears on the display.**

Note:

While neither the [Input] button nor [Mode] button is illuminated, the scroll wheel changes the input source

and remote controller mode simultaneously (e.g., set the input source and mode to "DVD".)

① On button

This button is used to turn on the DVD player.

② Standby button

This button is used to set the DVD player to Standby.

③ Number/letter buttons

These buttons are used to enter title, chapter, and track numbers and to enter times for locating specific points in time.

④ Mode button

This button is used with the scroll wheel to select the remote controller modes. Press this button first, and then roll the scroll wheel until "DVD" appears on the display.

⑤ Top Menu button

This button is used to select a DVD's top menu.

⑥ Up/Down/Left/Right [▲]/[▼]/[◀]/[▶] & Enter buttons

These buttons are used to navigate DVD menus and the DVD player's onscreen setup menus. The Enter button is used to start playback of the selected menu title, chapter, or track and to confirm settings.

⑦ CH/Disc button

This button is used to select discs on a DVD changer.

⑧ Return/Exit button

This button is used to exit the DVD player's onscreen setup menu and to restart menu playback.

⑨ Display button

This button is used to display information about the current disc, title, chapter, or track, including the elapsed time, remaining time, total time, and so on.

⑩ Previous/Next [◀◀]/[▶▶] buttons

The Previous [◀◀] button is used to select the previous chapter or track. During playback it selects the beginning of the current chapter or track. The Next [▶▶] button is used to select the next chapter or track.

⑪ FR/FF [◀◀]/[▶▶] buttons

The FR [◀◀] button is used to start fast reverse. The FF [▶▶] button is used to start fast forward.

⑫ Pause [||] button

This button is used to pause DVD playback.

⑬ Step/Slow [◀||]/[||▶] buttons

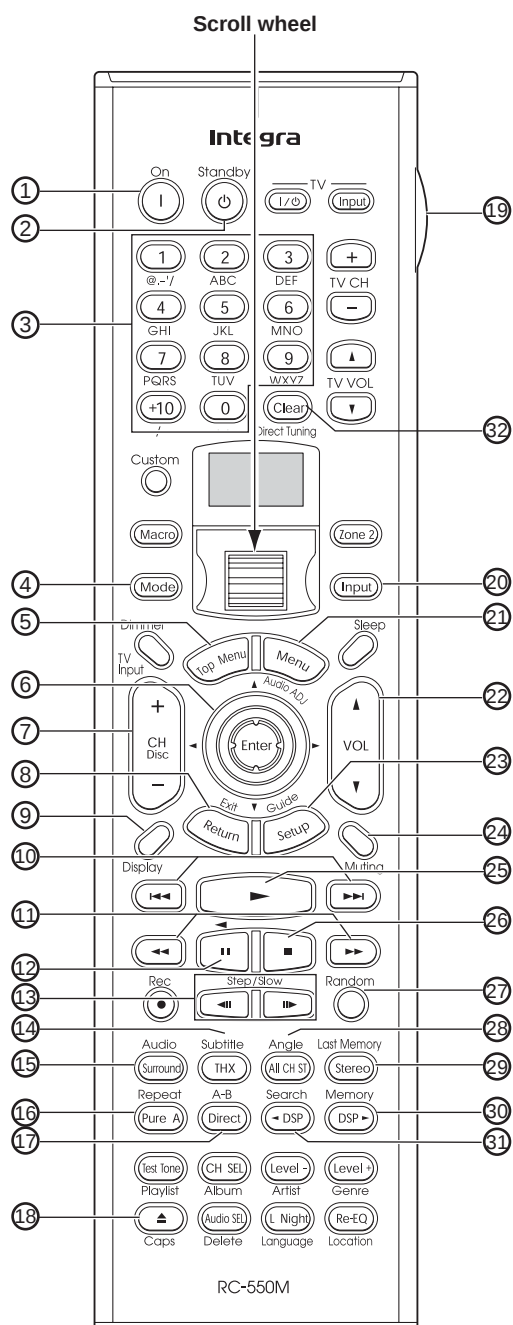
These buttons are used for frame-by-frame playback and slow-motion playback.

⑭ Subtitle button

This button is used to select subtitles.

PANEL VIEWS

REMOTE CONTROLLER



15 Audio button

This button is used to select foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS).

16 Repeat button

This button is used to set the repeat playback functions.

17 A-B button

This button is used to set the A-B repeat playback function.

18 Open/Close [▲] button

This button is used to open and close the disc tray.

19 Light button

This button is used to turn on or off the remote controller's illuminated buttons.

20 Input button

This button is used to select the input source. Press this button first, and then roll the scroll wheel until "DVD" appears on the display.

21 Menu button

This button is used to select a DVD's menu.

22 VOL button

This button is used to set the volume of the DTR-8.4.

23 Setup/Guide button

This button is used to access the DVD player's onscreen setup menus.

24 Muting button

This button is used to mute the DTR-8.4. This function can be set only with the remote controller.

25 Play [▶] button

This button is used to start DVD playback.

26 Stop [■] button

This button is used to stop DVD playback.

27 Random button

This button is used with the random playback function.

28 Angle button

This button is used to select different camera angles.

29 Last Memory button

This button is used with the last memory function, which allows you to resume DVD playback from where you left off.

30 Memory button

This button is used with the memory playback function, which allows you to create a custom playlist of titles, chapters, or tracks.

31 Search button

This button is used to search for titles, chapters, tracks, and specific points in time.

32 Clear button

This button is used to cancel functions and to clear entered numbers.

PANEL VIEWS

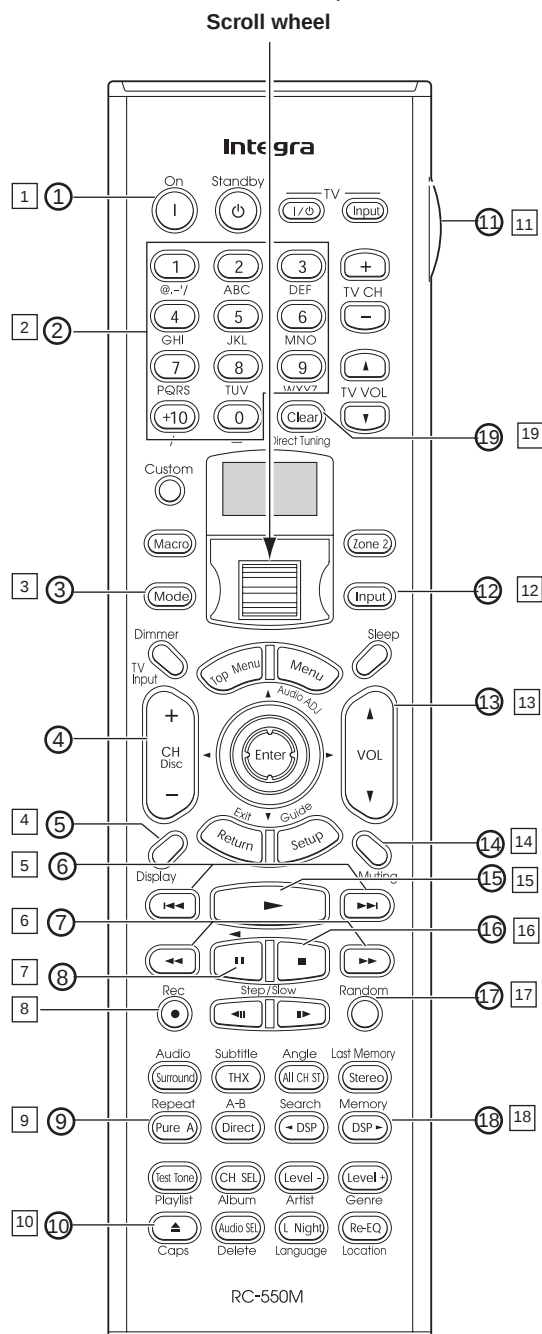
REMOTE CONTROLLER

CD Mode

CD mode is used to control an Integra/Onkyo CD player connected to the DTR-8.4 via **RI**. To select CD mode, press the [Mode] button, and then roll the scroll wheel until "CD" appears on the display.

Note:

While neither the [Input] button nor [Mode] button is illuminated, the scroll wheel changes the input source and remote controller mode simultaneously (e.g., set the input source and mode to "CD.")



Boxed numbers are for MiniDisc mode (next page).

- ① **On button**
This button is used to set the CD player to On or Standby.
- ② **Number/letter buttons**
These buttons are used to enter track numbers and to enter times for locating specific points in time.
- ③ **Mode button**
This button is used with the scroll wheel to select the remote controller modes. Press this button first, and then roll the scroll wheel until "CD" appears on the display.
- ④ **CH/Disc button**
This button is used to select discs on a CD changer.
- ⑤ **Display button**
This button is used to display information about the current disc or track, including the elapsed time, remaining time, total time, and so on.
- ⑥ **Previous/Next [◀◀]/[▶▶] buttons**
The Previous [◀◀] button is used to select the previous track. During playback it selects the beginning of the current track. The Next [▶▶] button is used to select the next track.
- ⑦ **FR/FF [◀◀]/[▶▶] buttons**
The FR [◀◀] button is used to start fast reverse. The FF [▶▶] button is used to start fast forward.
- ⑧ **Pause [||] button**
This button is used to pause CD playback.
- ⑨ **Repeat button**
This button is used to set the repeat playback functions.
- ⑩ **Open/Close [▲] button**
This button is used to open and close the disc tray
- ⑪ **Light button**
This button is used to turn on or off the remote controller's illuminated buttons.
- ⑫ **Input button**
This button is used to select the input source. Press this button first, and then roll the scroll wheel until "CD" appears on the display .
- ⑬ **VOL button**
This button is used to set the volume of the DTR-8.4.
- ⑭ **Muting button**
This button is used to mute the DTR-8.4. This function can be set only with the remote controller.
- ⑮ **Play [▶] button**
This button is used to start CD playback.
- ⑯ **Stop [■] button**
This button is used to stop CD playback.

PANEL VIEWS

REMOTE CONTROLLER

17 Random button

This button is used with the random playback function.

18 Memory button

This button is used with the memory playback function, which allows you to create a custom playlist of tracks.

19 Clear button

This button is used to cancel functions and to clear entered numbers.

MiniDisc Mode

MiniDisc mode is used to control an Integra/Onkyo MiniDisc recorder connected to the DTR-8.4 **RI**. **To select MiniDisc mode, press the [Mode] button, and then roll the scroll wheel until "MD" appears on the display.**

Note:

While neither the [Input] button nor [Mode] button is illuminated, the scroll wheel changes the input source and remote controller mode simultaneously (e.g., set the input source and mode to "MD. ")

1 On button

This button is used to set the MiniDisc recorder to On or Standby.

2 Number/letter buttons

These buttons are used to enter track numbers and to enter times for locating specific points in time.

3 Mode button

This button is used with the scroll wheel to select the remote controller modes. Press this button first, and then roll the scroll wheel until "MD" appears on the display.

4 Display button

This button is used to display information about the current disc or track, including the elapsed time, remaining time, total time, and so on.

5 Previous/Next [◀◀]/[▶▶] buttons

The Previous [◀◀] button is used to select the previous track. During playback it selects the beginning of the current track. The Next [▶▶] button is used to select the next track.

6 FR/FF [◀◀]/[▶▶] buttons

The FR [◀◀] button is used to start fast reverse. The FF [▶▶] button is used to start fast forward.

7 Pause [II] button

This button is used to pause MiniDisc playback.

8 Rec [●] button

This button is used to start MiniDisc recording.

9 Repeat button

This button is used to set the repeat playback functions.

10 Eject [▲] button

This button is used to set eject the MiniDisc.

11 Light button

This button is used to turn on or of the remote controller's illuminated buttons.

12 Input button

This button is used to select the input source. Press this button first, and then roll the scroll wheel until "MD" appears on the display.

13 VOL button

This button is used to set the volume of the DTR-8.4.

14 Muting button

This button is used to mute the DTR-8.4. This function can be set only with the remote controller.

15 Play [▶] button

This button is used to start MiniDisc playback.

16 Stop [■] button

This button is used to stop MiniDisc playback.

17 Random button

This button is used with the random playback function.

18 Memory button

This button is used with the memory playback function, which allows you to create a custom playlist of tracks.

19 Clear button

This button is used to cancel functions and to clear entered numbers.

PANEL VIEWS

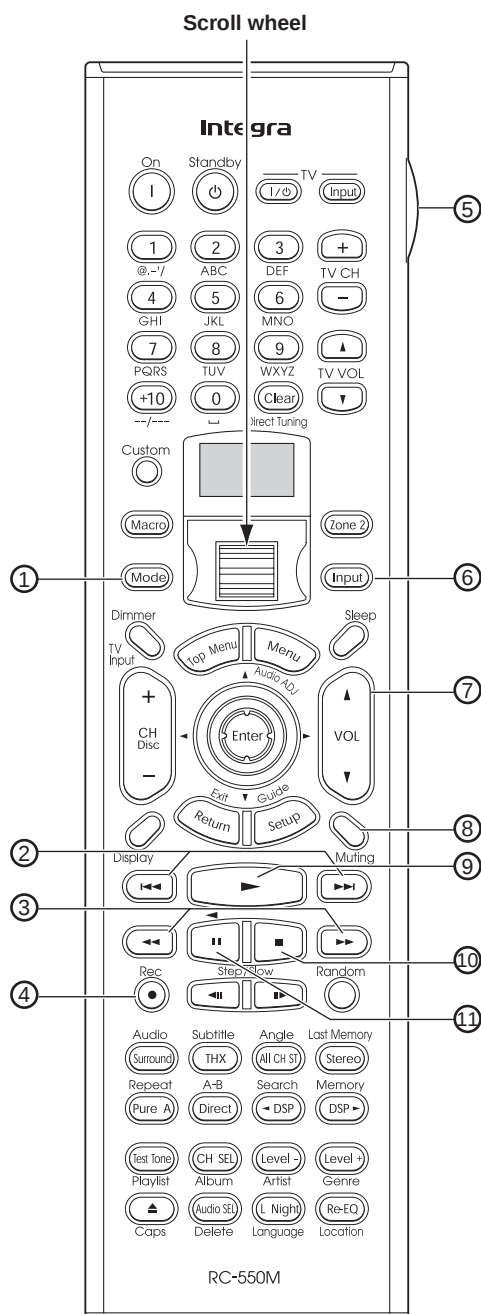
REMOTE CONTROLLER

Tape Mode

Tape mode is used to control an Integra/Onkyo cassette recorder connected to the DTR-8.4 via **RI**. To select Tape mode, press the scroll wheel. "AMP" appears on the display.

Note:

While neither the [Input] button nor [Mode] button is illuminated, the scroll wheel changes the input source and remote controller mode simultaneously (e.g., set the input source and mode to "TAPE.")



① Mode button

This button is used with the scroll wheel to select the remote controller modes. Press the scroll wheel until "AMP" appears on the display.

② Previous/Next [◀◀]/[▶▶] buttons

The Previous [◀◀] button is used to select the previous track. During playback it selects the beginning of the current track. The Next [▶▶] button is used to select the next track.

The Previous/Next [◀◀]/[▶▶] buttons make not work properly with some cassette tapes depending on how they were recorded.

③ Rewind/FF [◀◀]/[▶▶] buttons

The Rewind [◀◀] button is used to start rewind. The FF [▶▶] button is used to start fast forward.

④ Rec [●] button

This button is used to start tape recording.

⑤ Light button

This button is used to turn on or off the remote controller's illuminated buttons.

⑥ Input button

This button is used to select the input source. Press this button first, and then roll the scroll wheel until "TAPE" appears on the display.

⑦ VOL button

This button is used to set the volume of the DTR-8.4.

⑧ Muting button

This button is used to mute the DTR-8.4. This function can be set only with the remote controller.

⑨ Play [▶] button

This button is used to start tape playback.

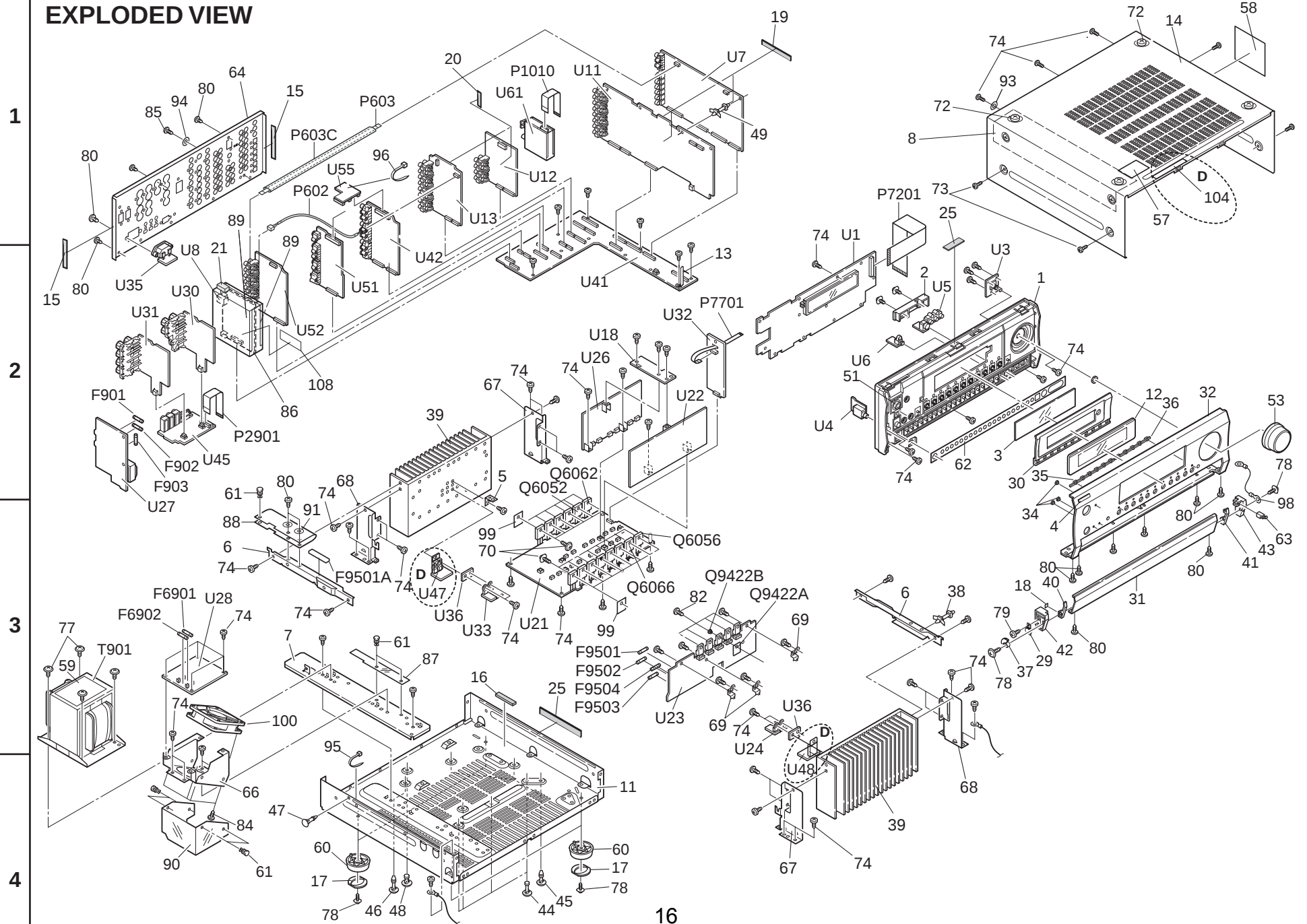
⑩ Stop [■] button

This button is used to stop tape playback.

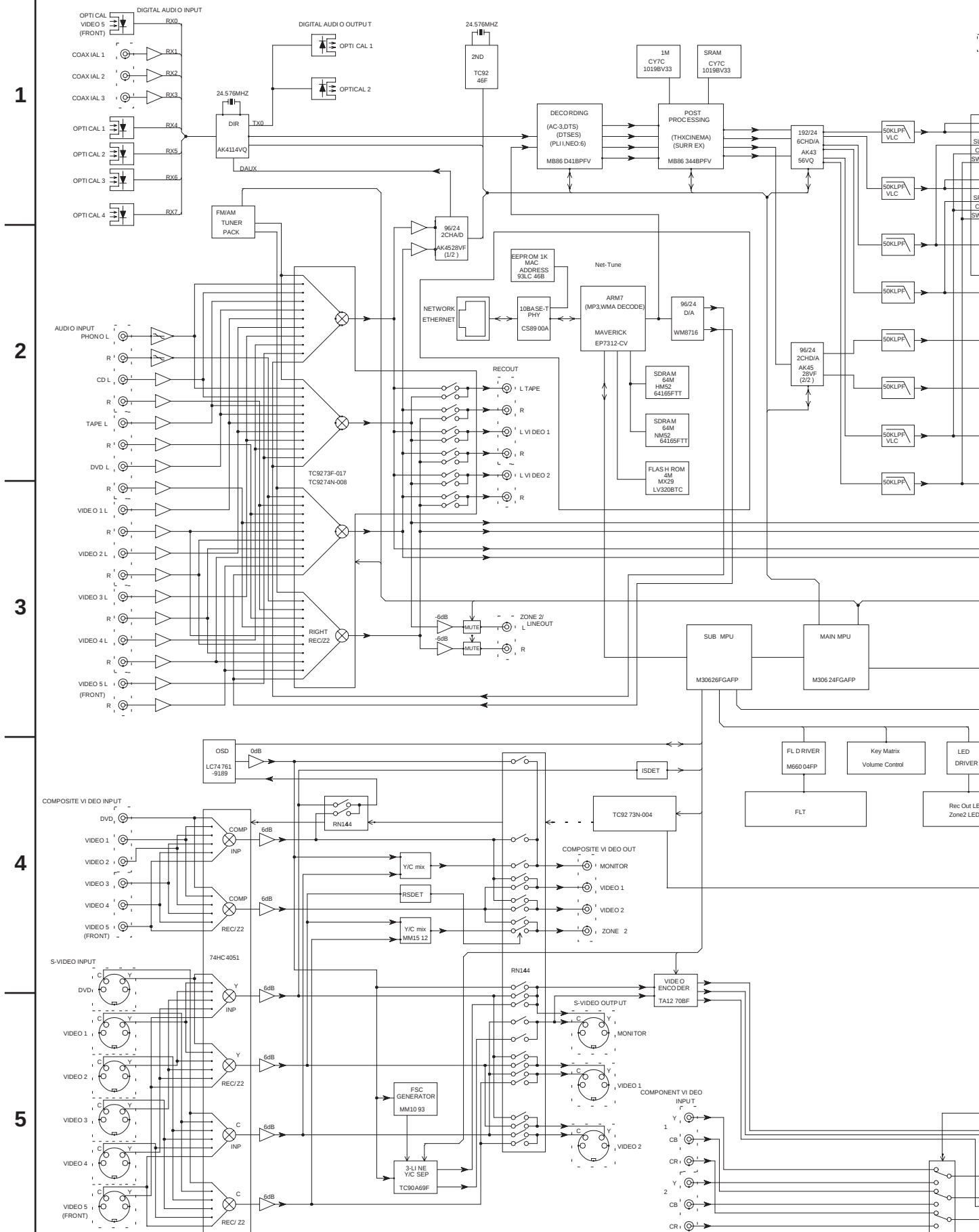
⑪ Reverse Play [◀] button

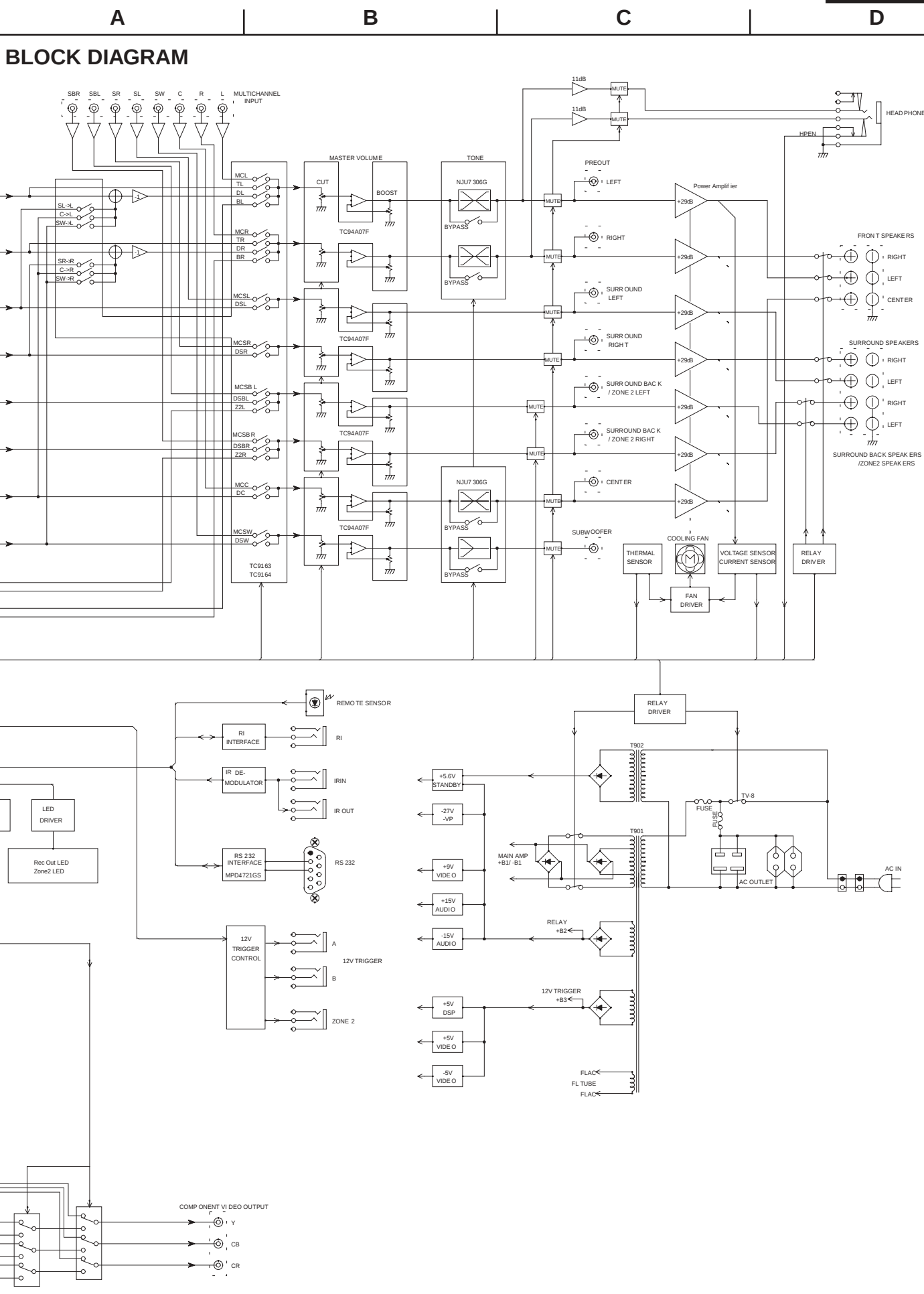
This button is used to start reverse playback.

EXPLODED VIEW

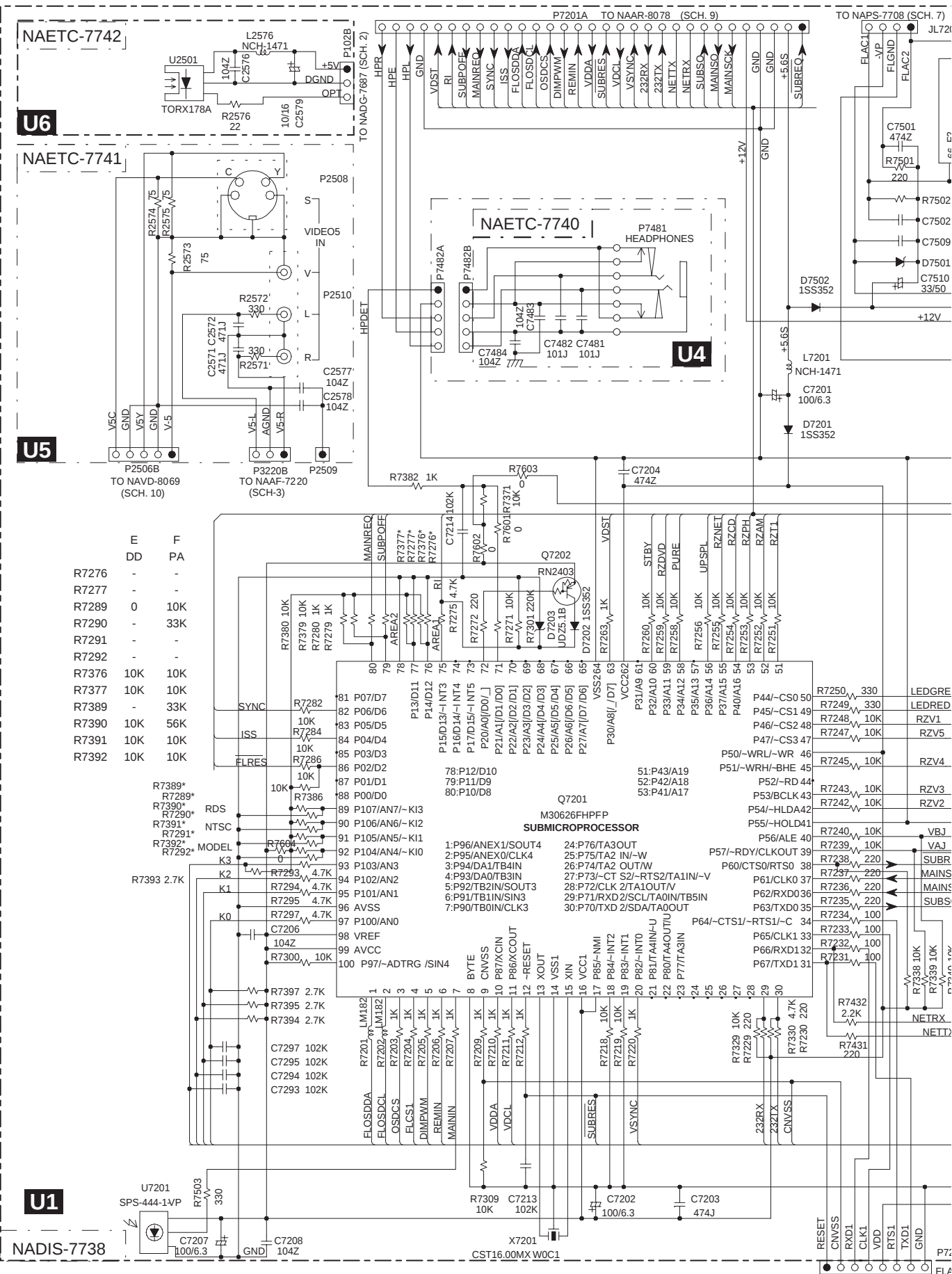


BLOCK DIAGRAM

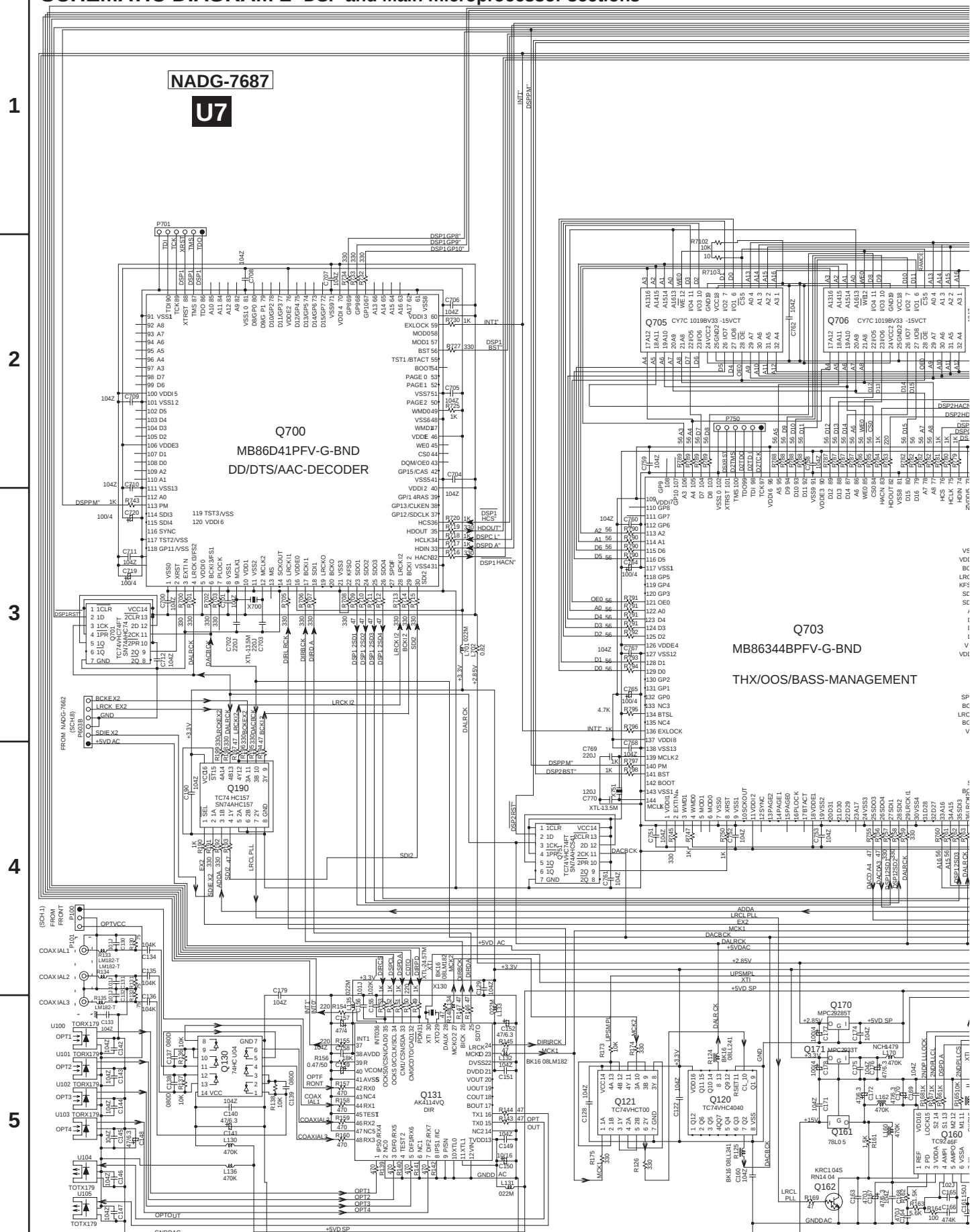




SCHEMATIC DIAGRAM 1 DISPLAY AND SUB MICROPROCESSOR SECTIONS



SCHEMATIC DIAGRAM 2 DSP and Main microprocessor sections

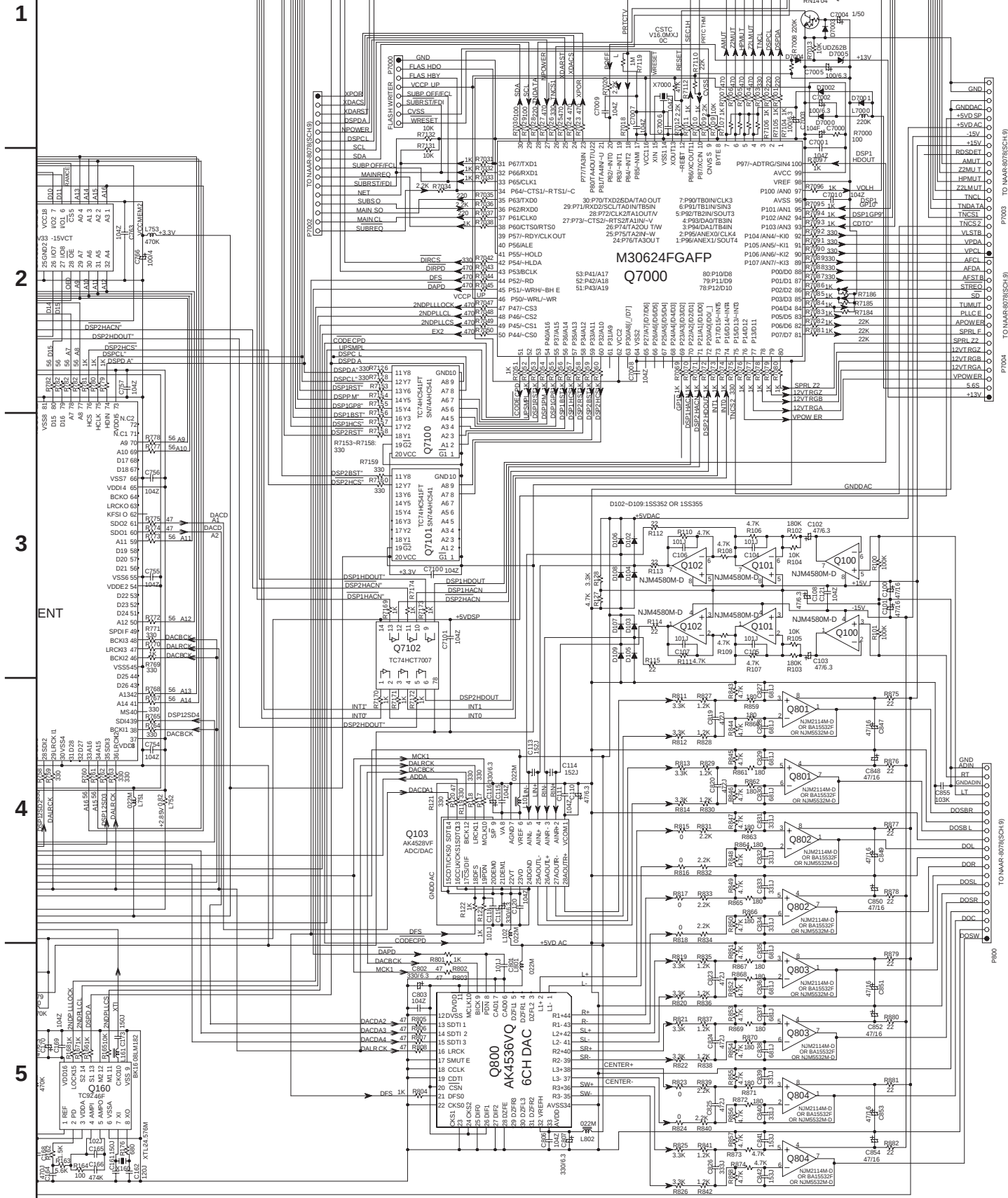


SCHEMATIC DIAGRAM 2

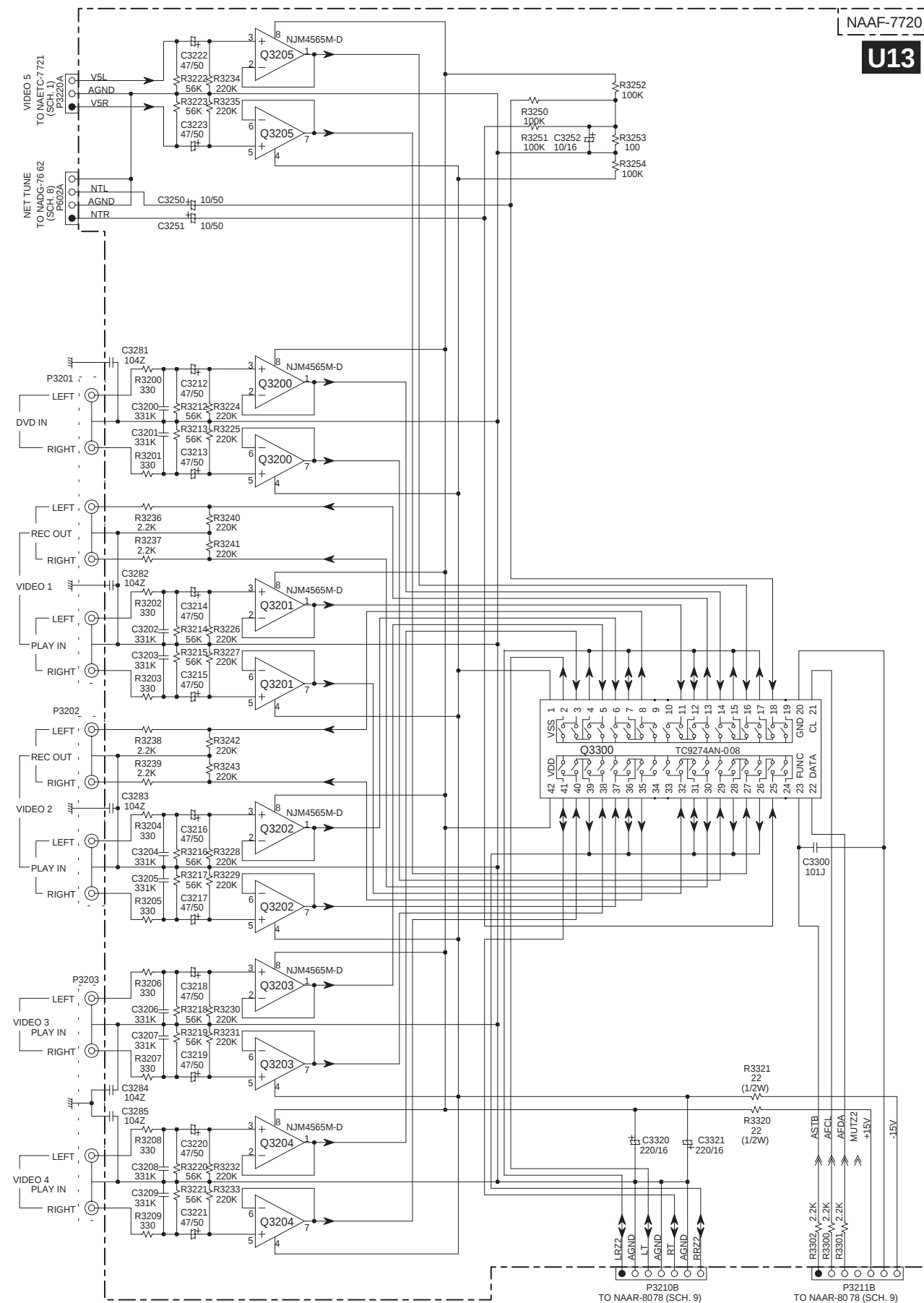
DSP and Main microprocessor sections

NADG-7687

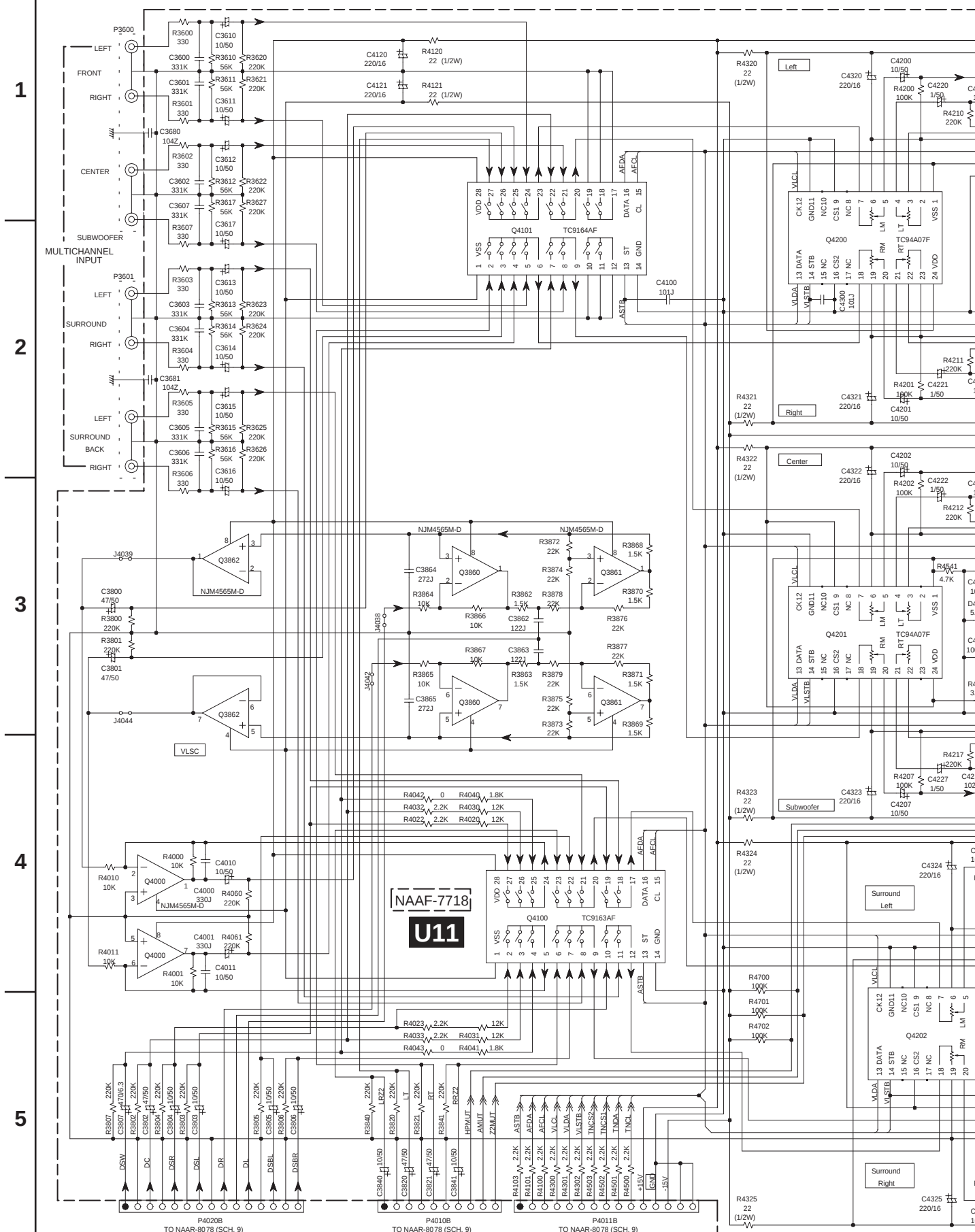
U7



SCHEMATIC DIAGRAM 3 Audio I/O terminal section



SCHEMATIC DIAGRAM 4 Preamplifier section



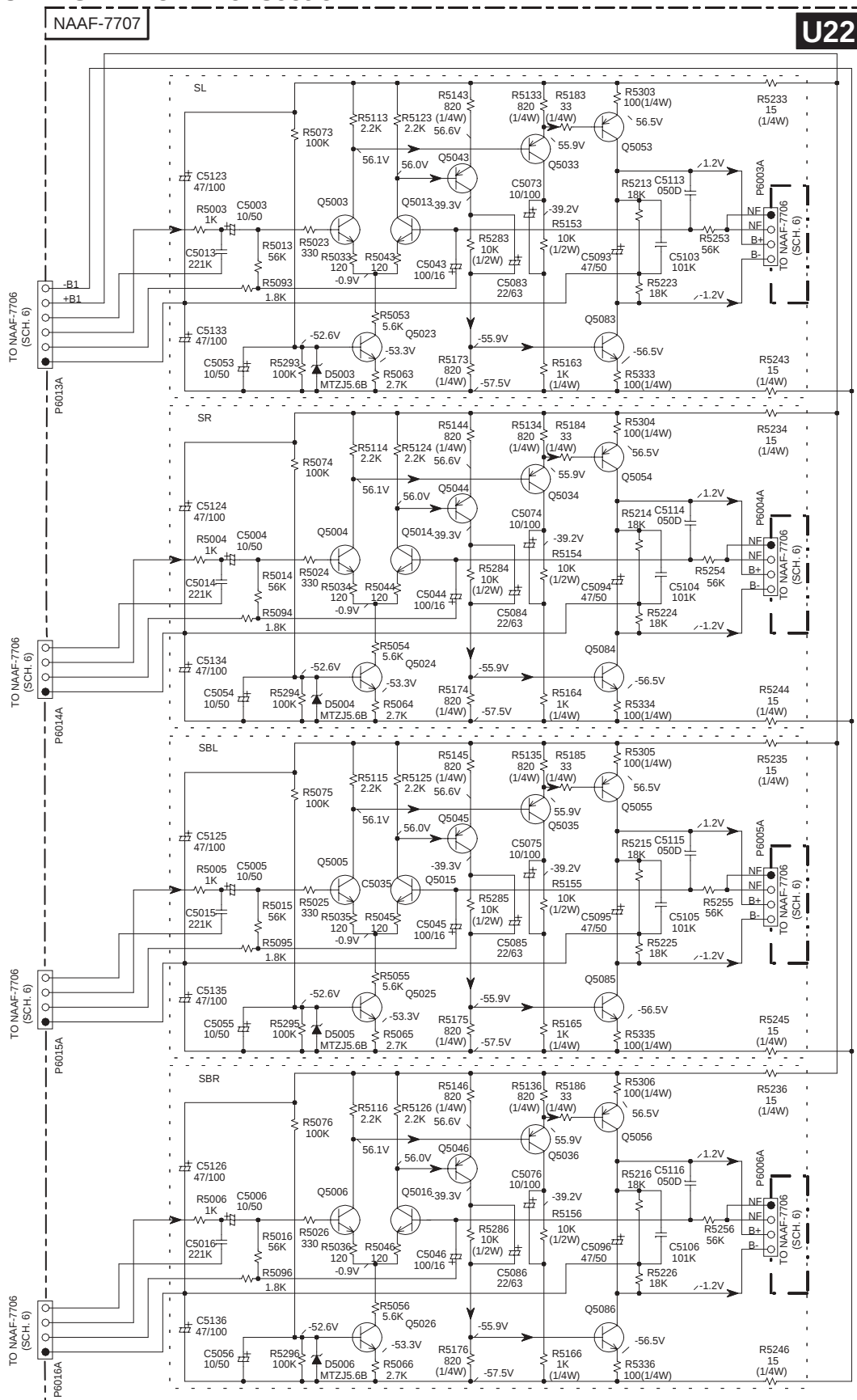
A

B

C

D

SCHEMATIC DIAGRAM 5 Driver section



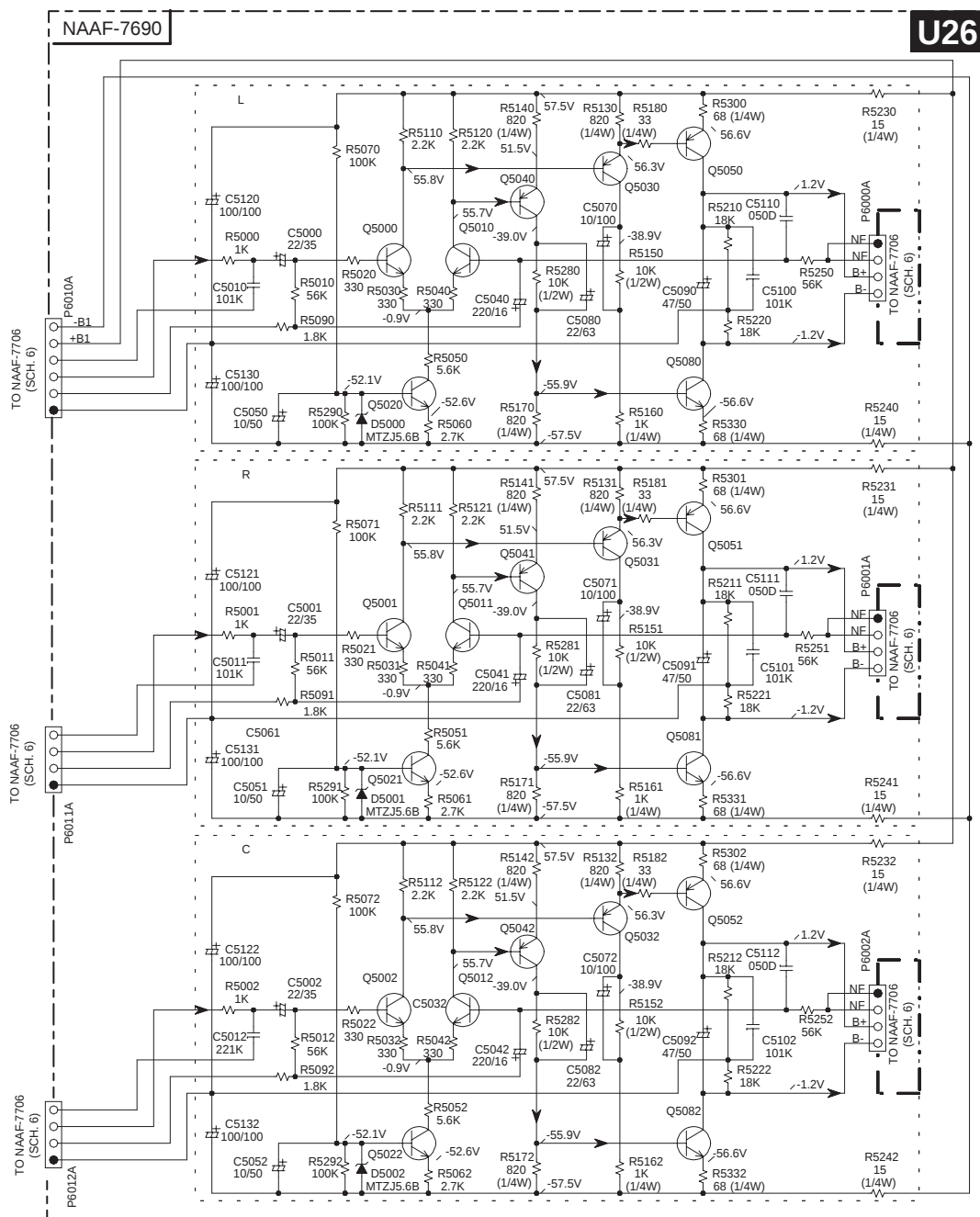
A

B

C

D

SCHEMATIC DIAGRAM 5 Driver section

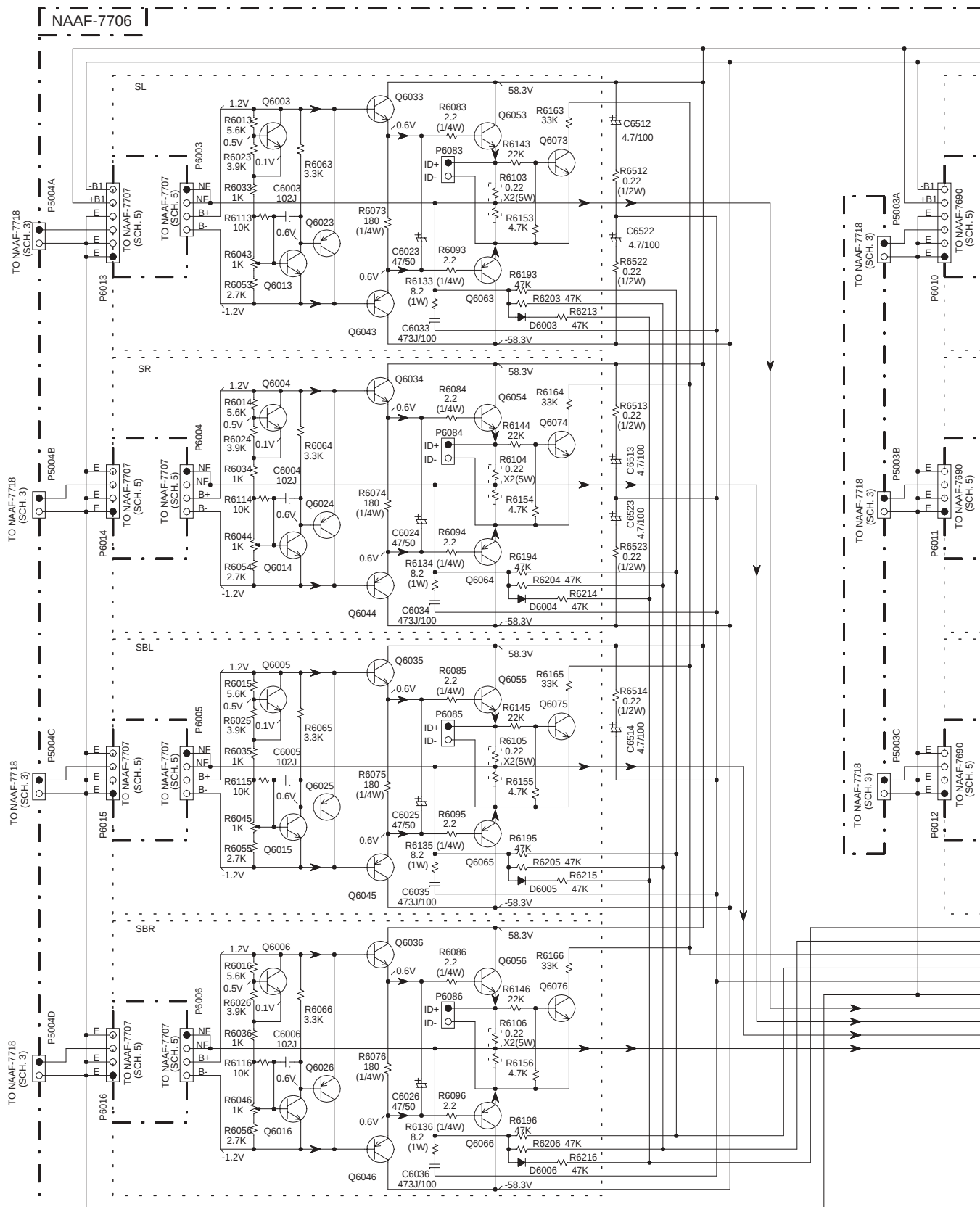


CIRCUIT NO.	DESCRIPTION
Q5000-Q5006, Q5010-Q5016	KTC3200-BL OR 2SC1775A-E OR 2SC1775A-F OR 2SC1845-E
Q5020-Q5026	KTC3200-BL OR 2SC1775A-E OR 2SC1775A-F OR 2SC1845-E
Q5030-Q5036, Q5040-Q5046	KTA1024-Y OR KTA1024-O OR 2SA949-Y OR 2SA949-O
Q5050-Q5052	2SA1360-Y OR 2SA1360-O
Q5053-Q5056	KTA1024-Y OR KTA1024-O OR 2SA949-Y OR 2SA949-O
Q5080-Q5082	2SC3423-Y OR 2SC3423-O
Q5083-Q5086	KTC3206-Y OR KTC3206-O OR 2SC2229-Y OR 2SC2229-O

NOTE

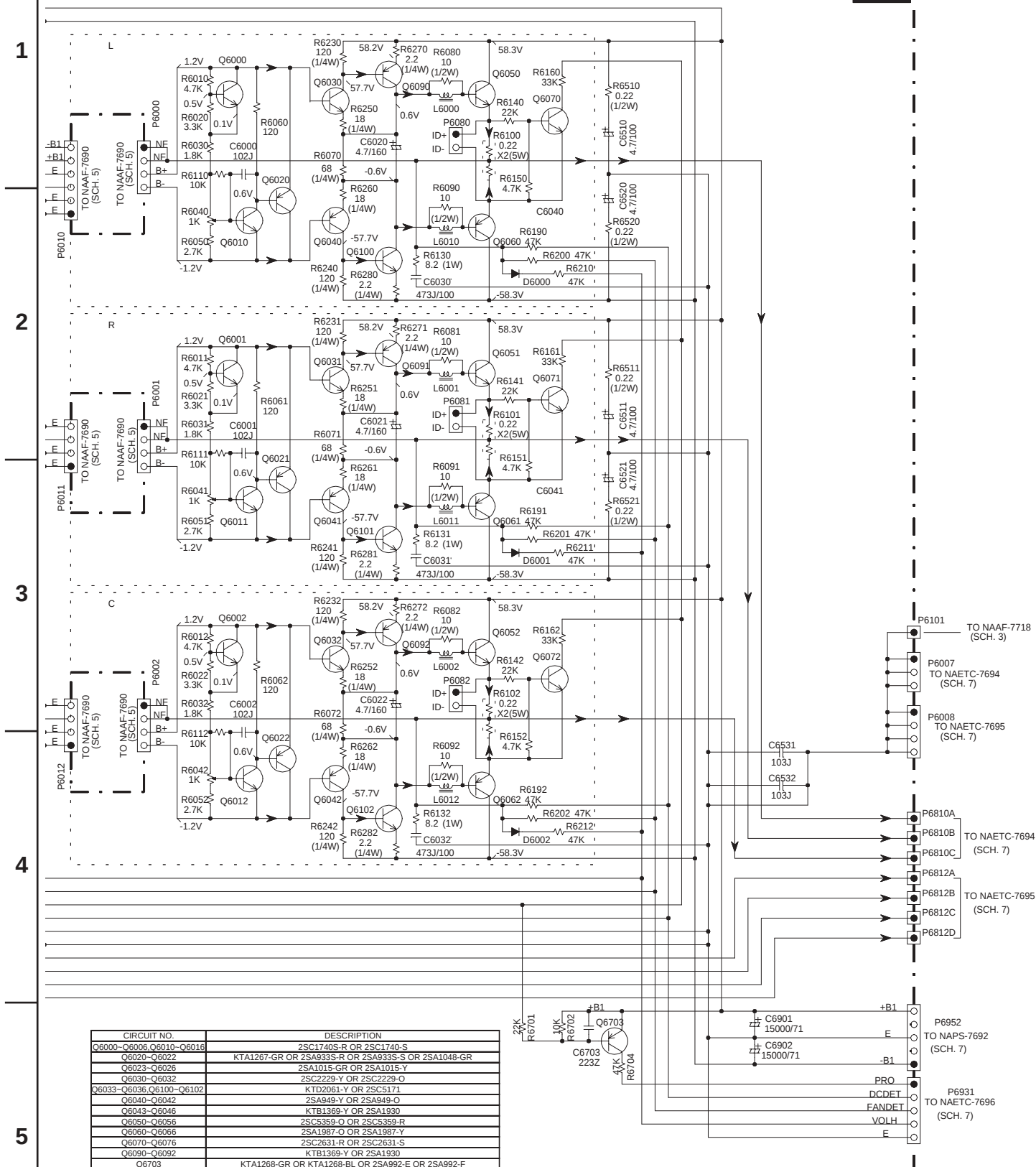
- THE COMPONENTS IDENTIFIED BY MARK Δ ARE CRITICAL FOR SAFETY.
- REPLACE ON LY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLT-METER) $\square$ IS DC VOLTAGE (NO INPUT SIGNAL).
- ELECTROLYTIC CAPACITORS ($\text{---}\text{||}\text{---}$) ARE IN $\mu\text{F/WV}$.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
- EX) 030-3pF 330-33pF 331-330pF 333pF-0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINE ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
- EX) $\square$ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

SCHEMATIC DIAGRAM 6 Power amplifier section

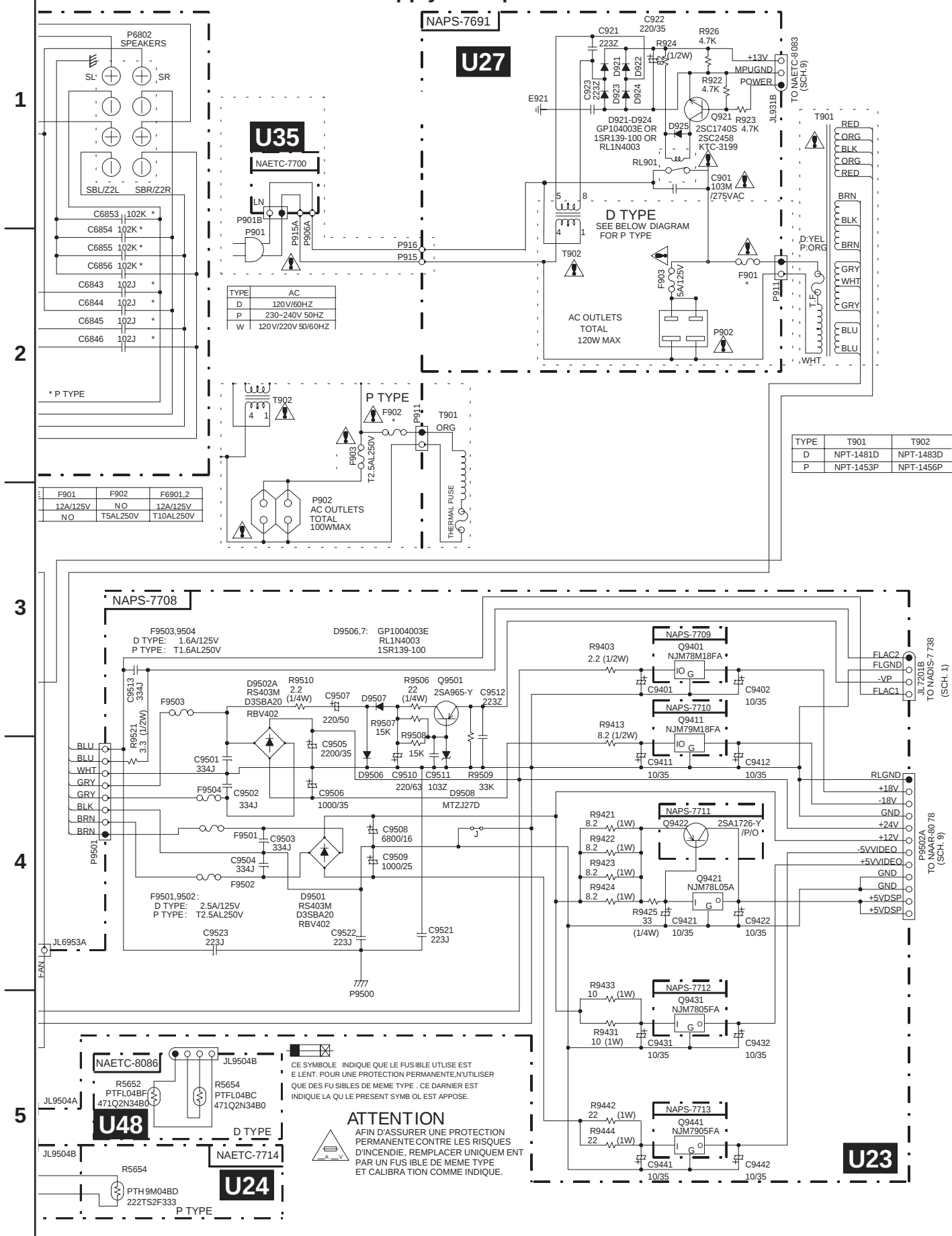


SCHEMATIC DIAGRAM 6 Power amplifier section

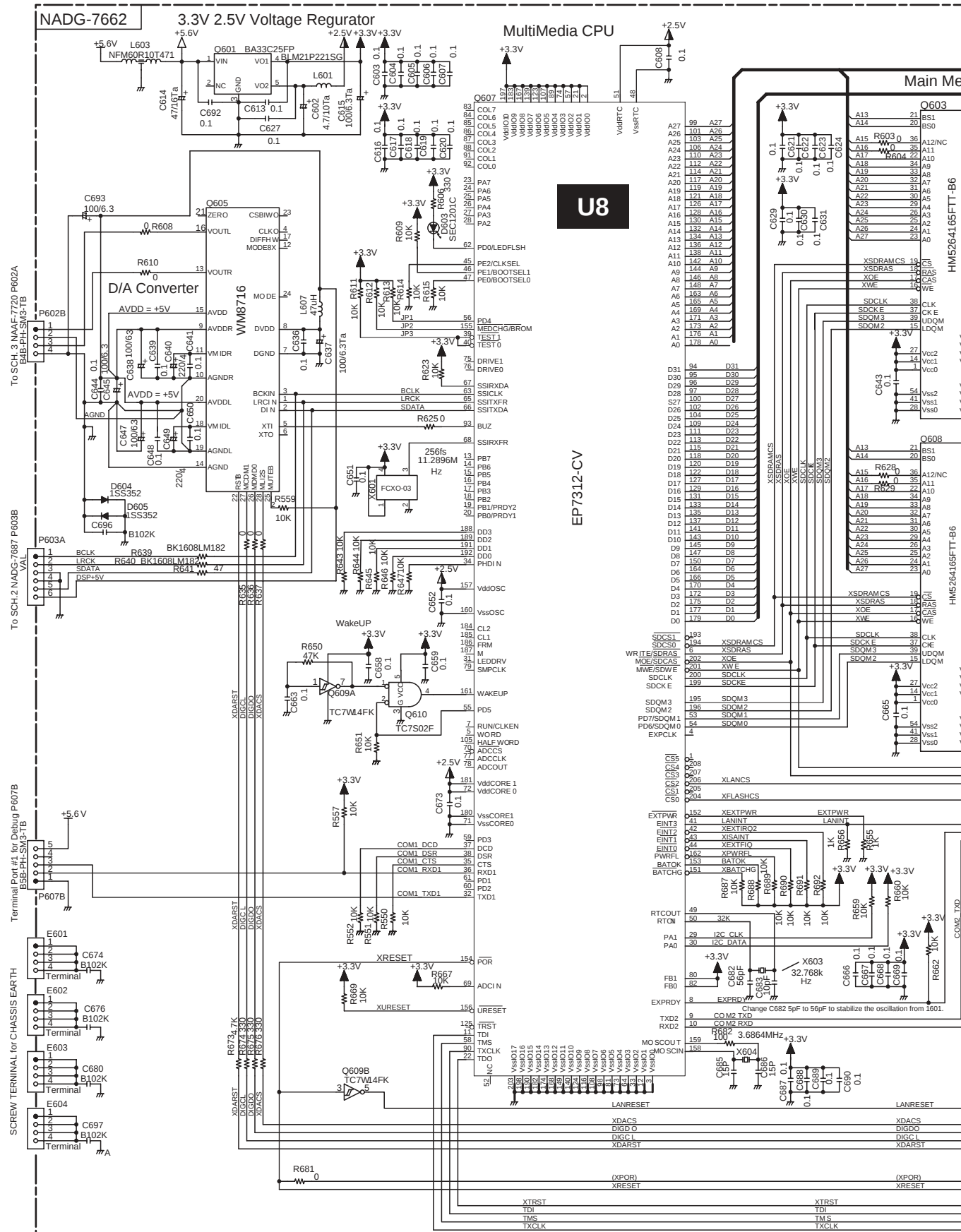
U21



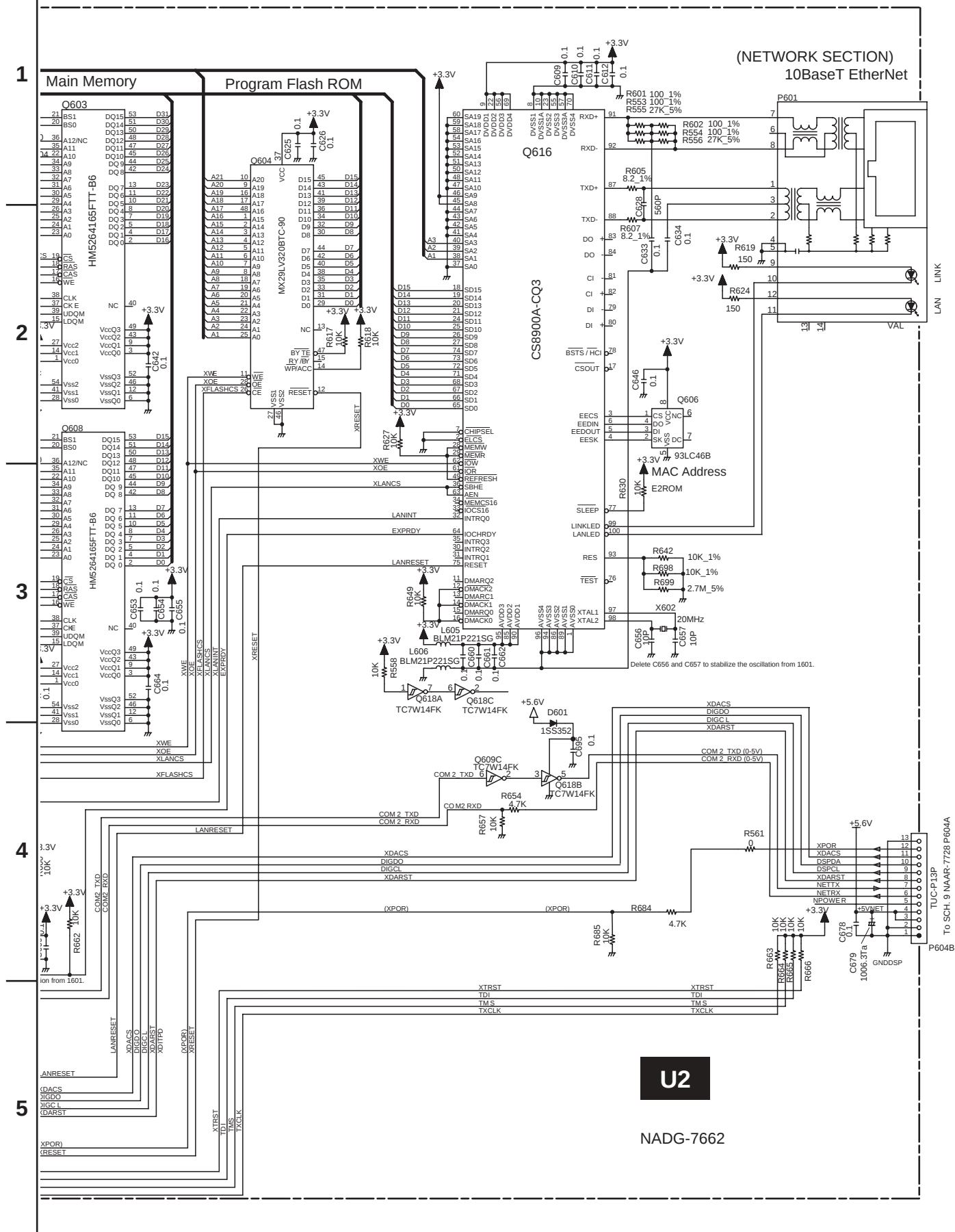
SCHEMATIC DIAGRAM 7 Power supply and speaker terminal sections



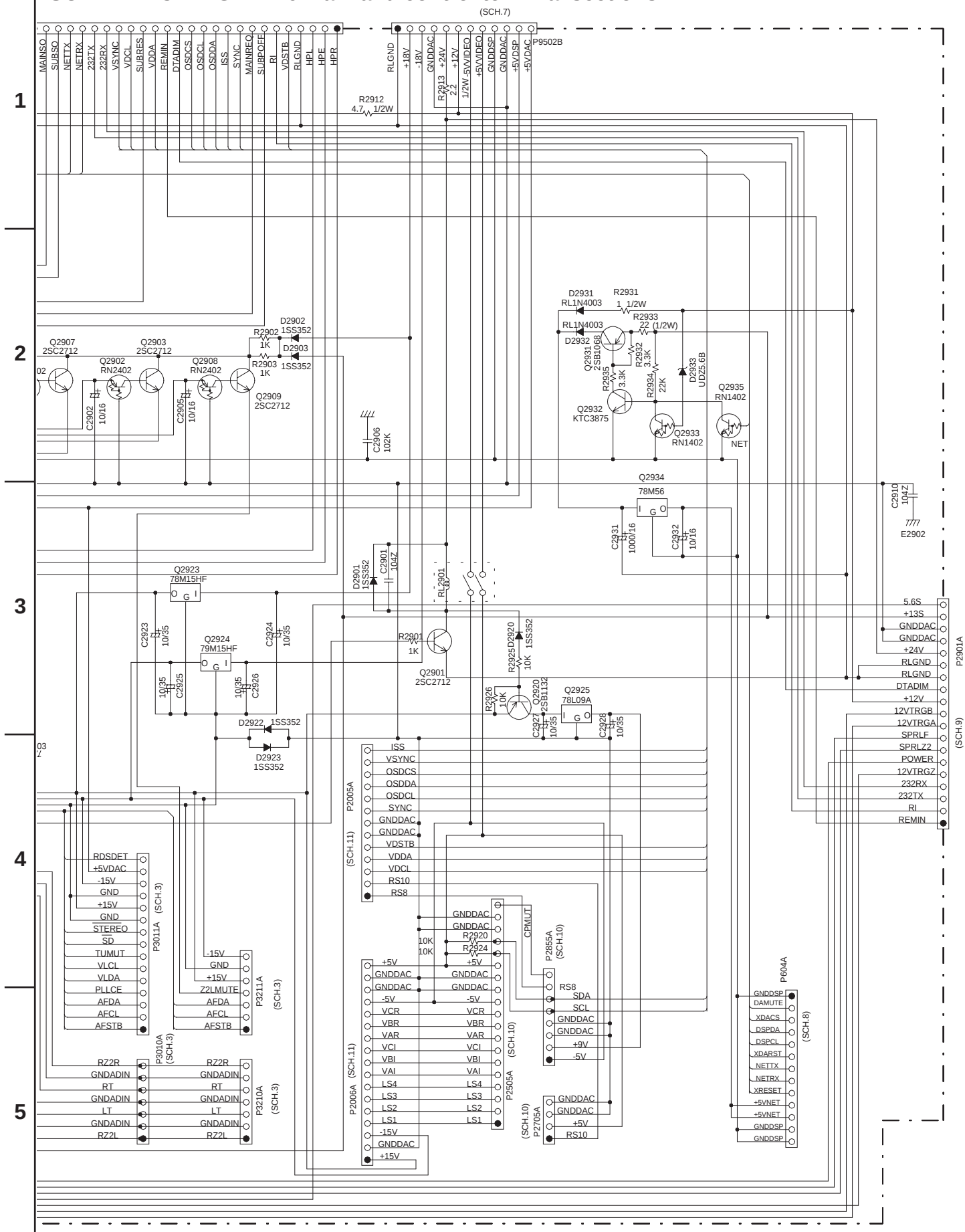
SCHEMATIC DIAGRAM 8 Net-tune circuit section



SCHEMATIC DIAGRAM 8 Net-tune circuit section

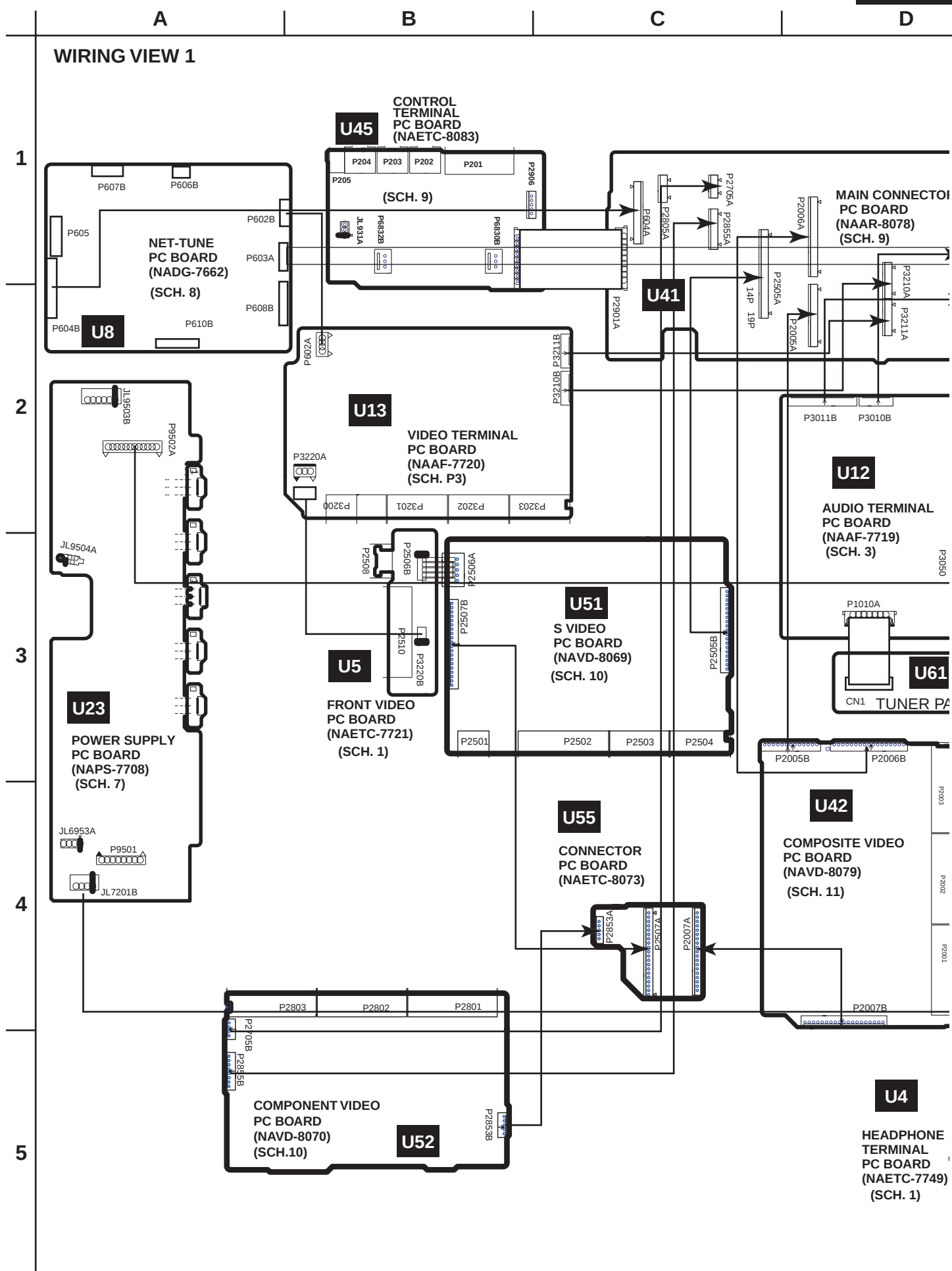


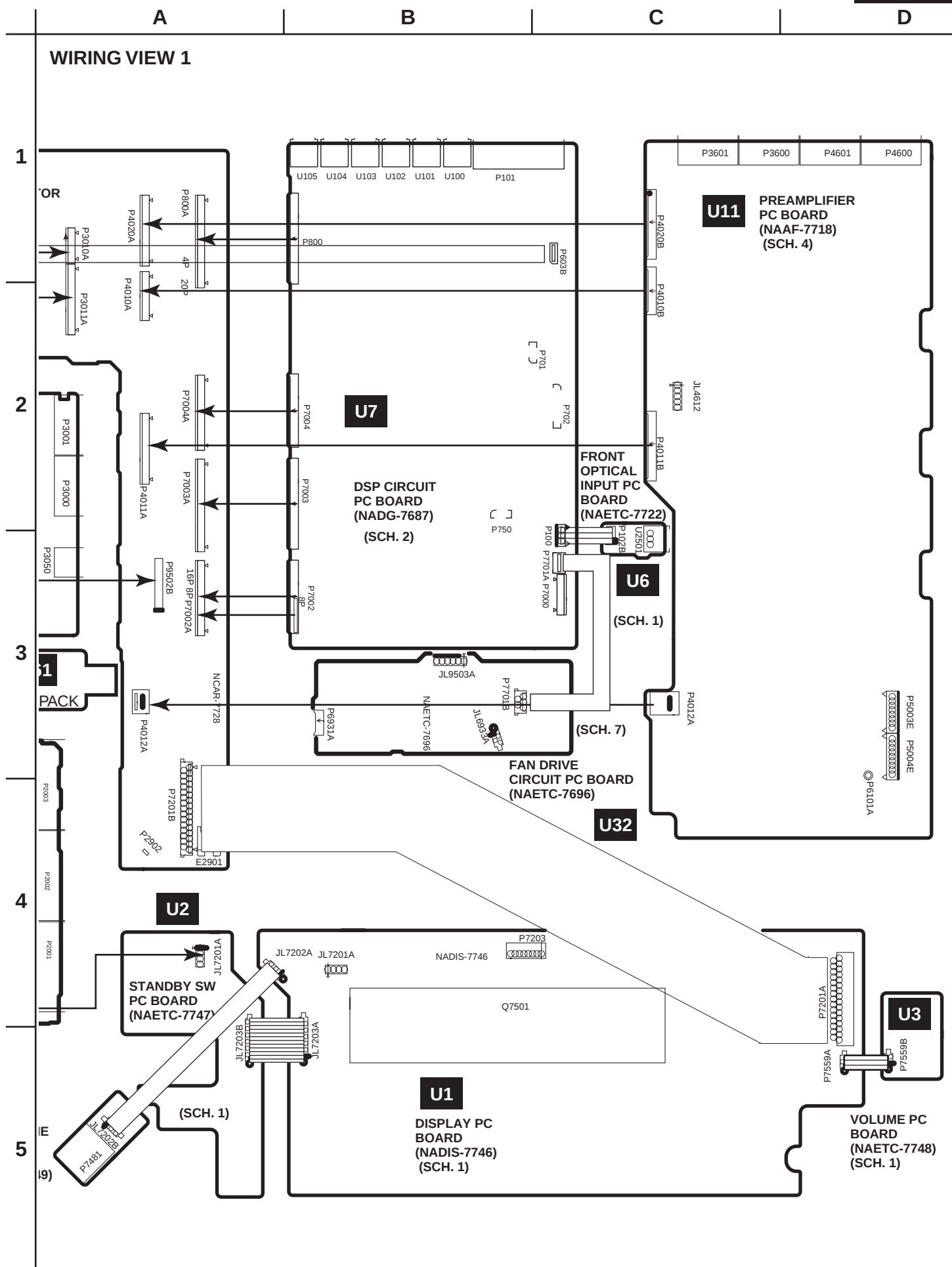
SCHEMATIC DIAGRAM 9 Main and control terminal sections



5







A

B

C

D

WIRING VIEW 2

1

2

3

4

5

U47

NAETC-8085
THERMAL DET.
PC BOARD
(SCH. 7)
120V model only

U48

NAETC-8086
THERMAL DET.
PC BOARD
(SCH. 7)
120V model only

U23

POWER SUPPLY
PC BOARD
(NAPS-7708)
(SCH. 7)

U32

FAN DRIVE
CIRCUIT PC BOARD
(NAETC-7696)
(SCH. 7)

U33

Thermal detector
circuit PC board
(NAETC-7697)
(SCH. 7)
Australian model only

U24

Thermal detector
circuit PC board
(NAETC-7714)
(SCH. 7)

Australian model only

U26

FRONT/CENTER
CHANNELS DRIVER
AMPLIFIER
PC BOARD
(NAAF-7690)
(SCH. 5)

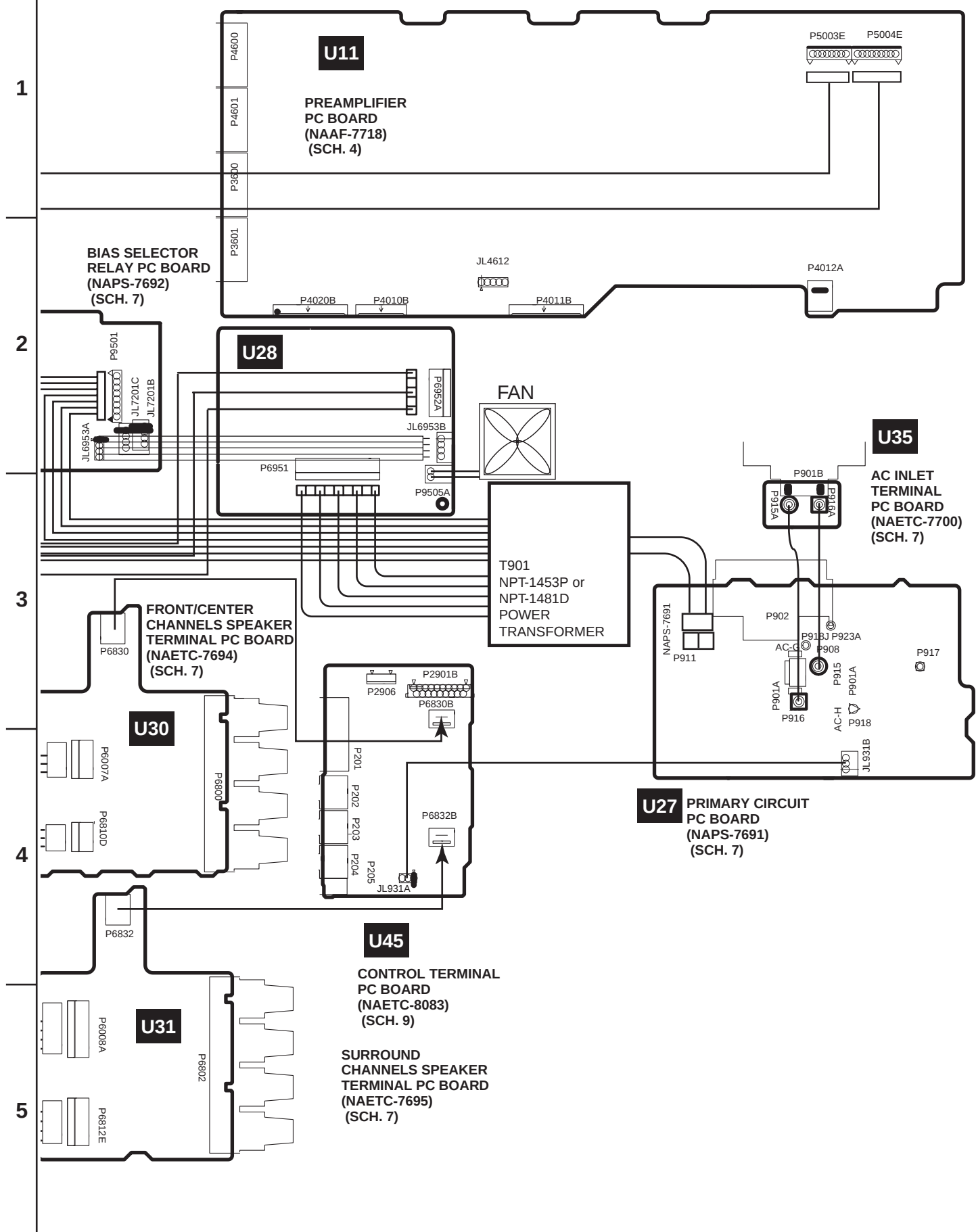
U22

SURROUND
CHANNELS
DRIVER
AMPLIFIER
PC BOARD
(NAAF-7707)
(SCH. 5)

U21

POWER AMPLIFIER
PC BOARD
(NAAF-7706)
(SCH. 6)

WIRING VIEW 2



A

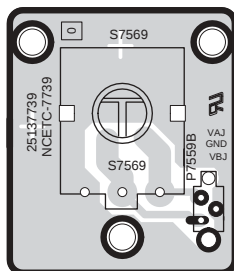
B

C

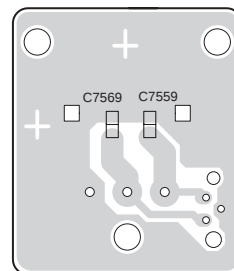
D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 1-1

1

U3

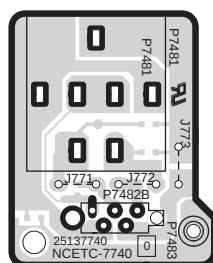
COMPONENT SIDE



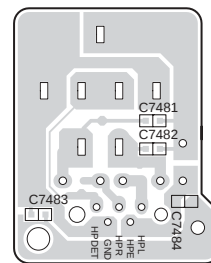
SOLDERING SIDE

VOLUME PC BOARD(NAETC-7739)

2

U4

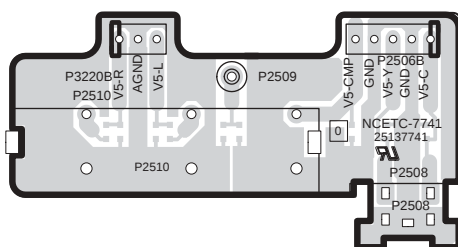
COMPONENT SIDE



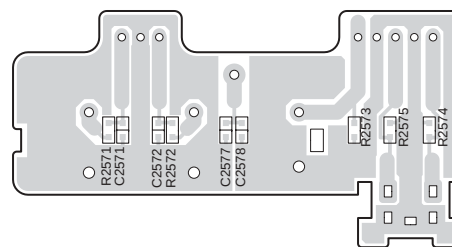
SOLDERING SIDE

HEADPHONE TERMINAL PC BOARD(NAETC-7740)

3

U5

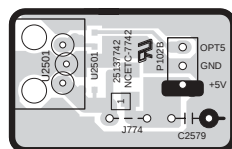
COMPONENT SIDE



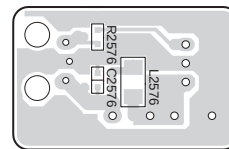
SOLDERING SIDE

FRONT VIDEO PC BOARD(NAETC-7741)

4

U6

COMPONENT SIDE



SOLDERING SIDE

FRONT OPTICAL INPUT PC BOARD(NAETC-7742)

5

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 1-2

1

2

3

COMPONENT SIDE

U1

DISPLAY CIRCUIT
PC BOARD
(NADIS-7738)

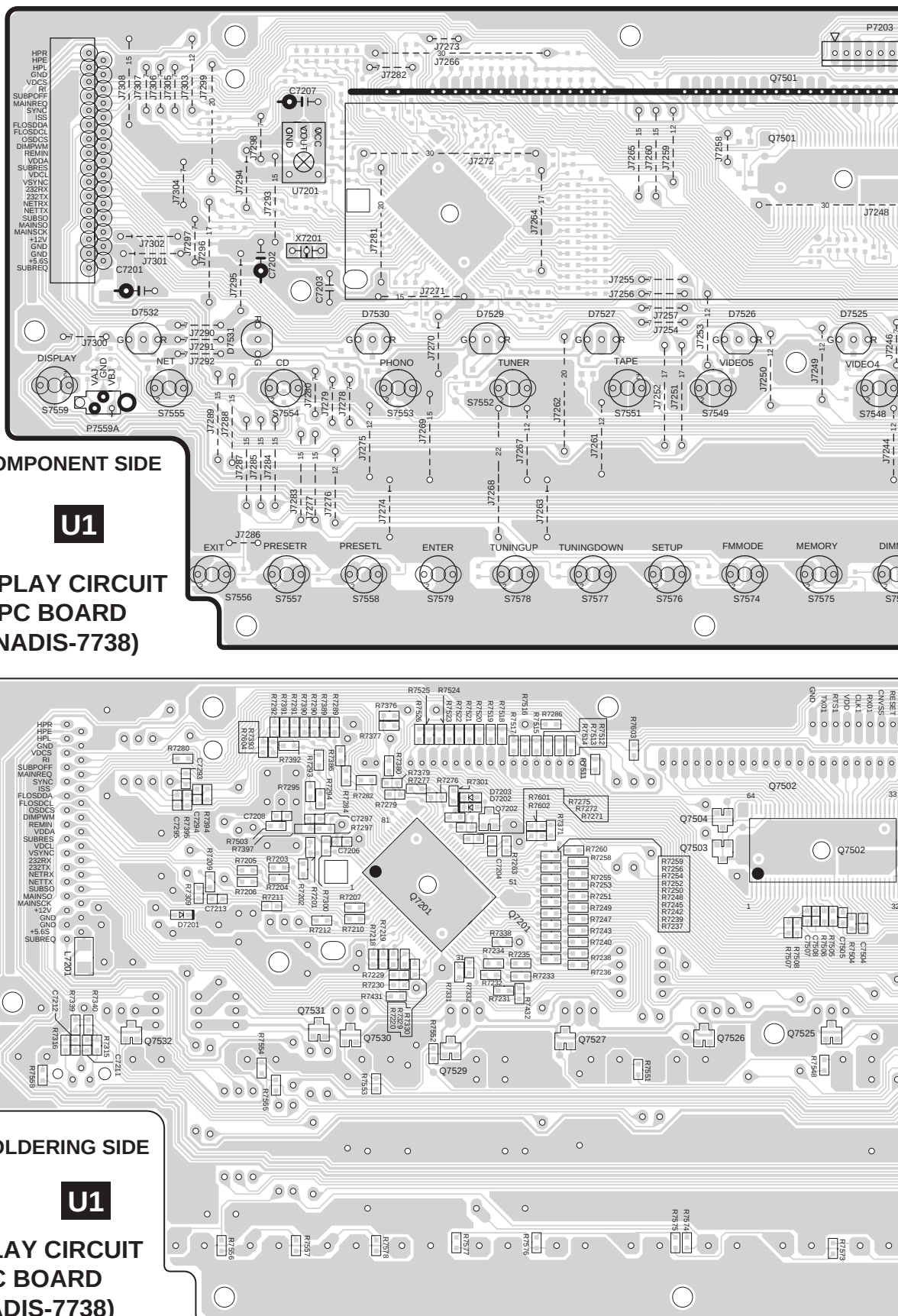
4

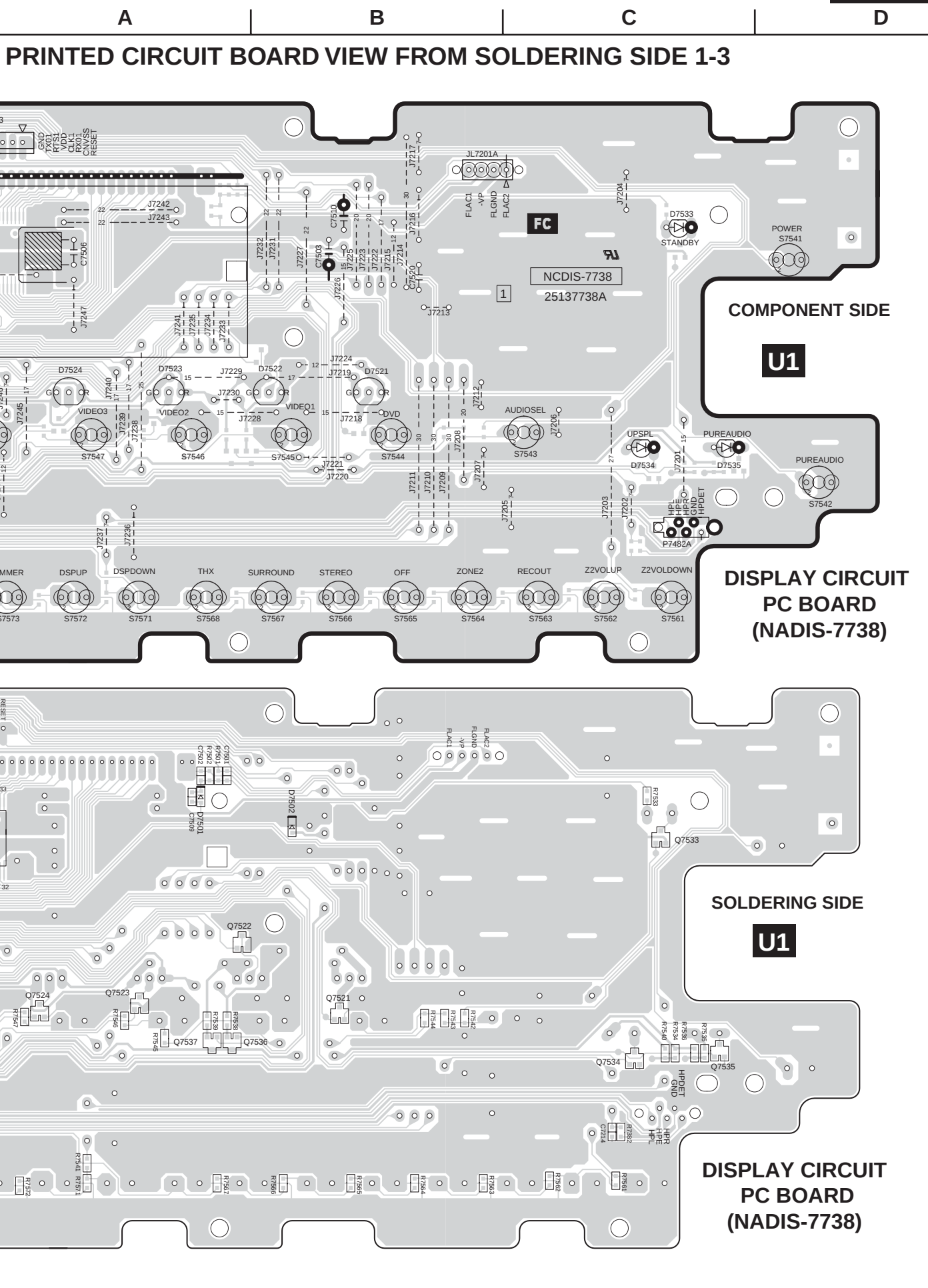
5

SOLDERING SIDE

U1

DISPLAY CIRCUIT
PC BOARD
(NADIS-7738)





A

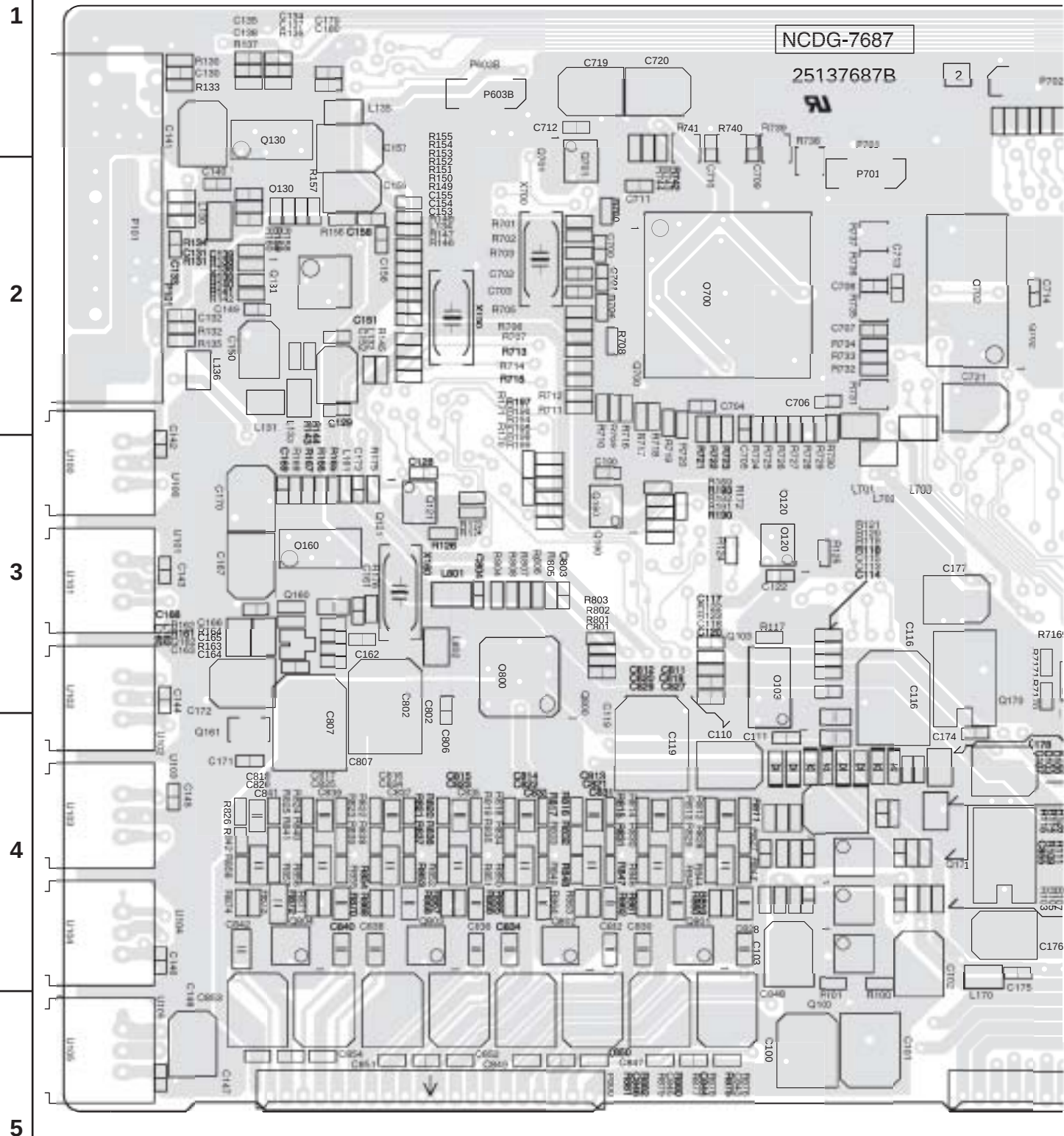
B

C

D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 2-1

U7



SOLDERING VIEW FOR COMPONENT PARTS
 DSP CIRCUIT PC BOARD
 (NADG-7687)

A

B

C

D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 2-2

U7

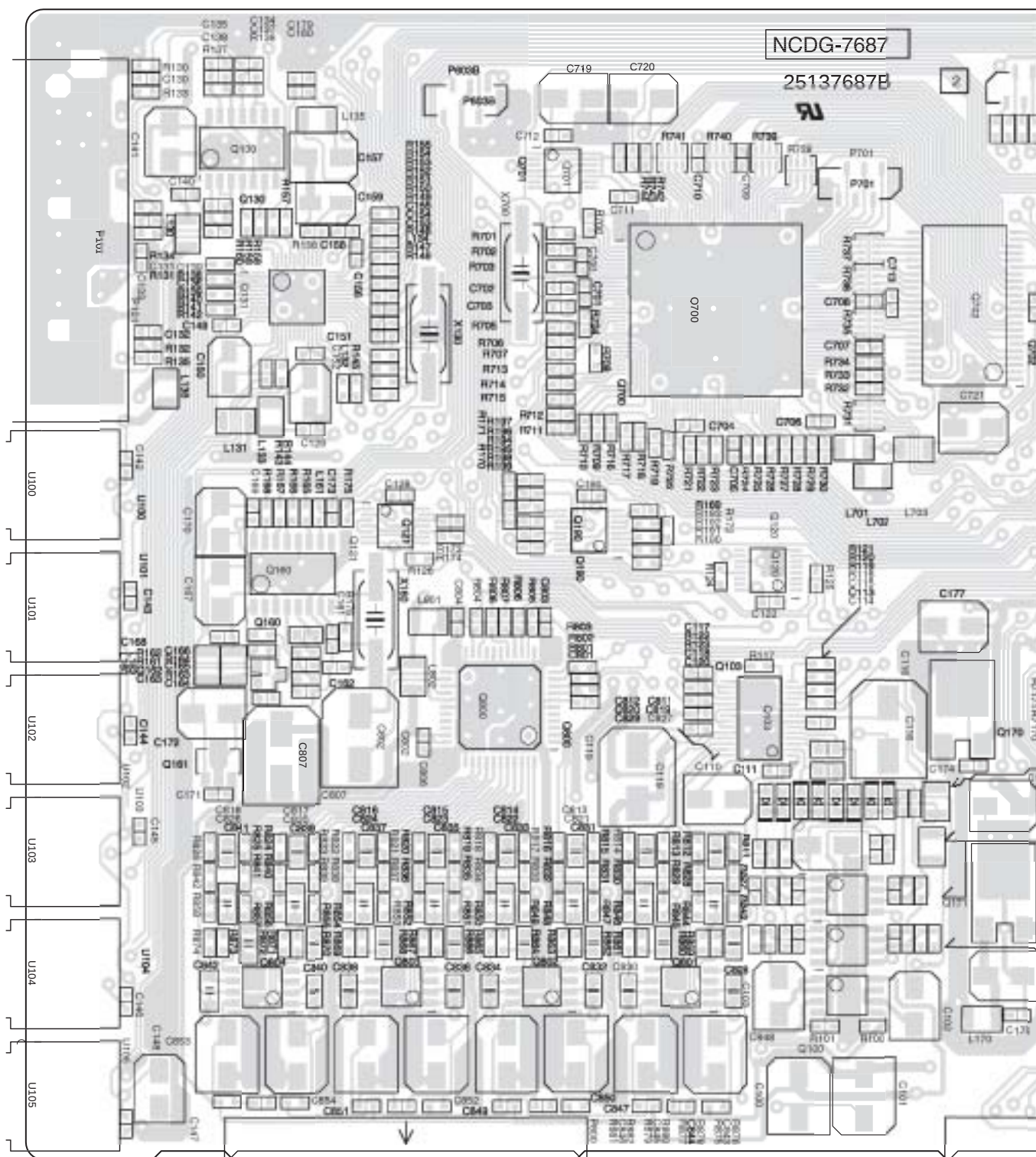
1

2

3

4

5



SOLDERING VIEW FOR CHIP PARTS

DSP CIRCUIT PC BOARD
(NADG-7687)

A

B

C

D

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 2-1

U7

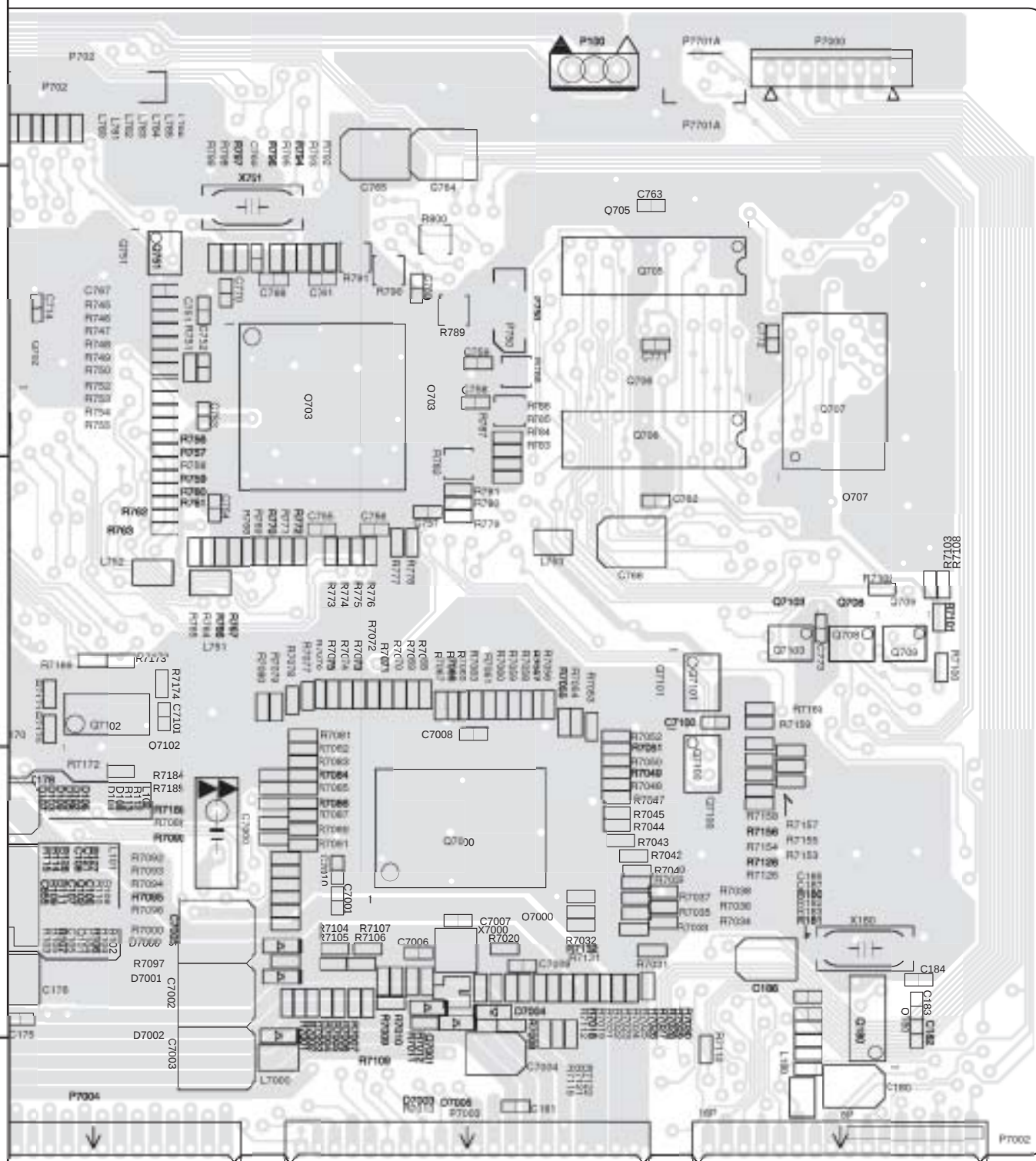
1

2

3

4

5



SOLDERING VIEW FOR COMPONENT PARTS
 DSP CIRCUIT PC BOARD
 (NADG-7687)

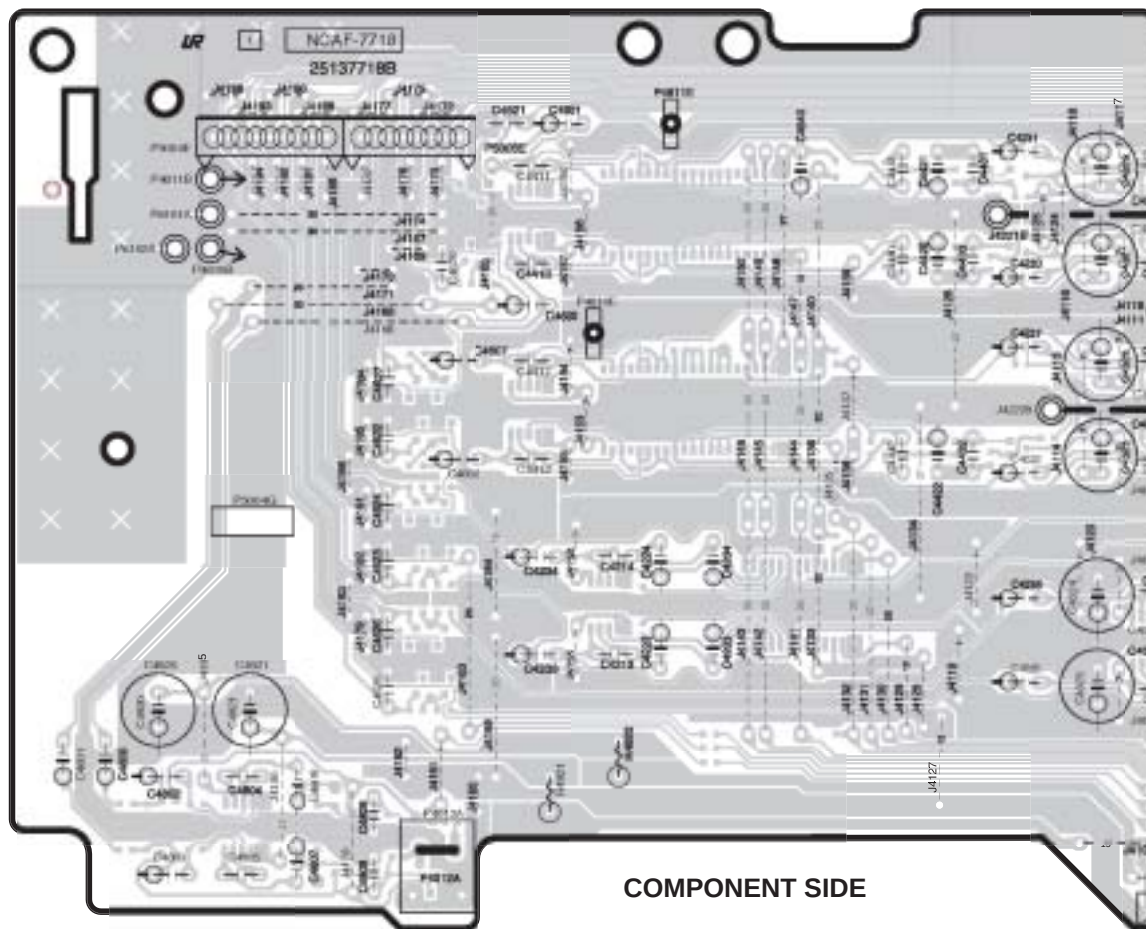
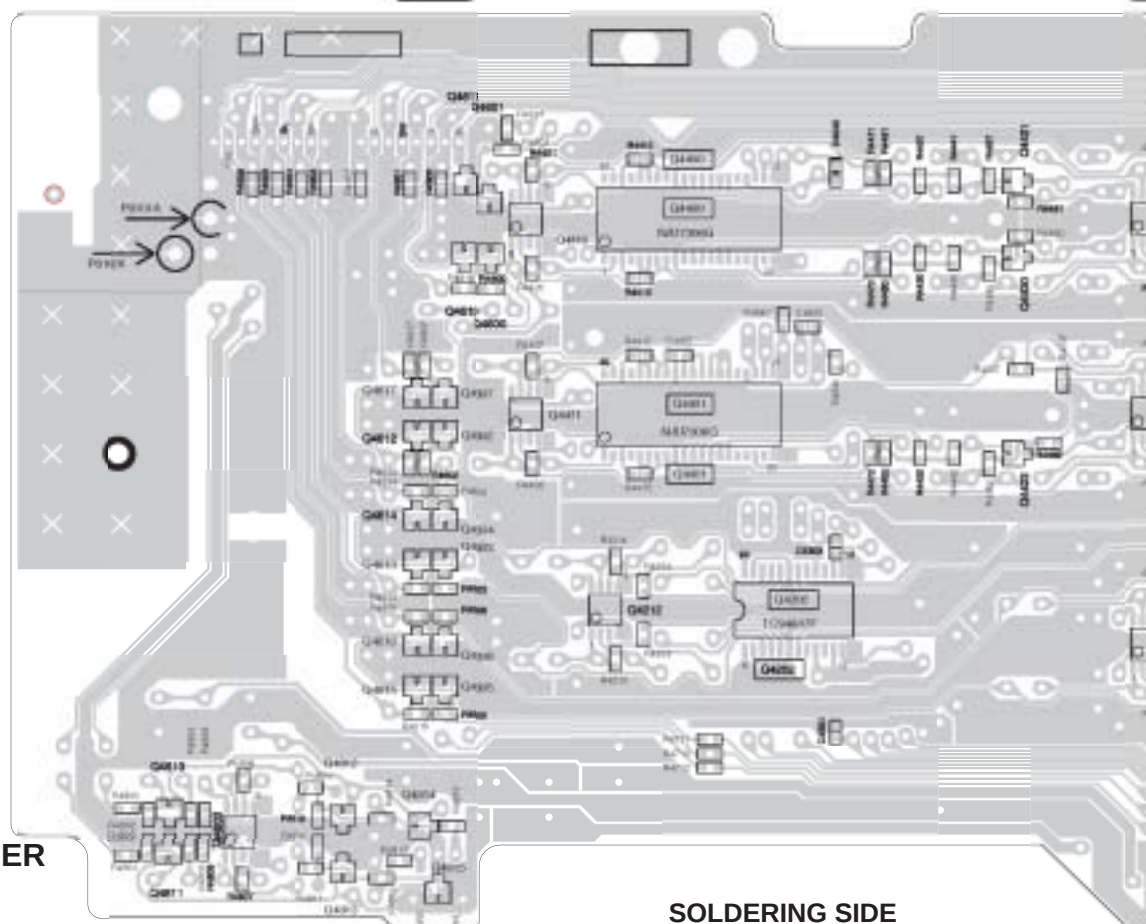
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 4-1

U11

COMPONENT SIDE

SOLDERING SIDE
**PRE AMPLIFIER
PC BOARD
(NAAF-7718)**

A

B

C

D

PRINTED
CIRCUIT
BOARD
VIEW 4-2

U11

COMPONENT
SIDE

SOLDERING
SIDE

PRE
AMPLIFIER
PC BOARD
(NAAF-7718)

A

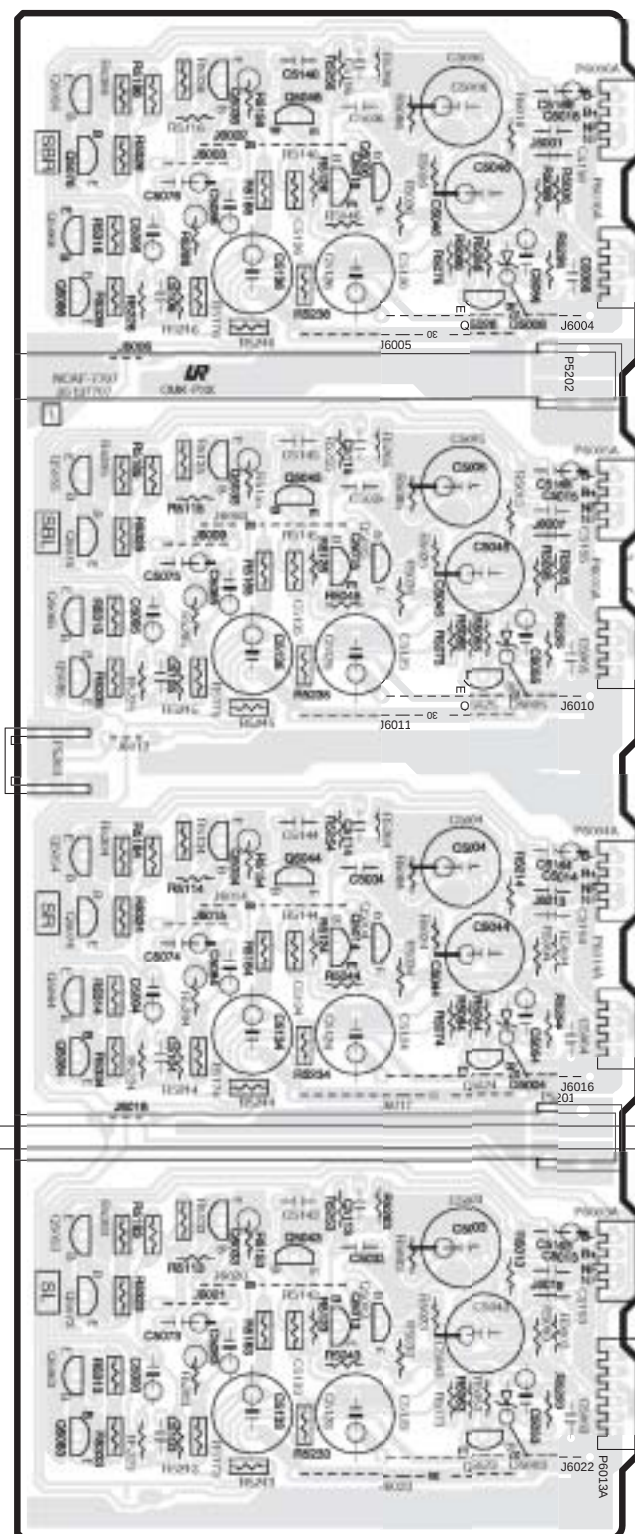
B

C

D

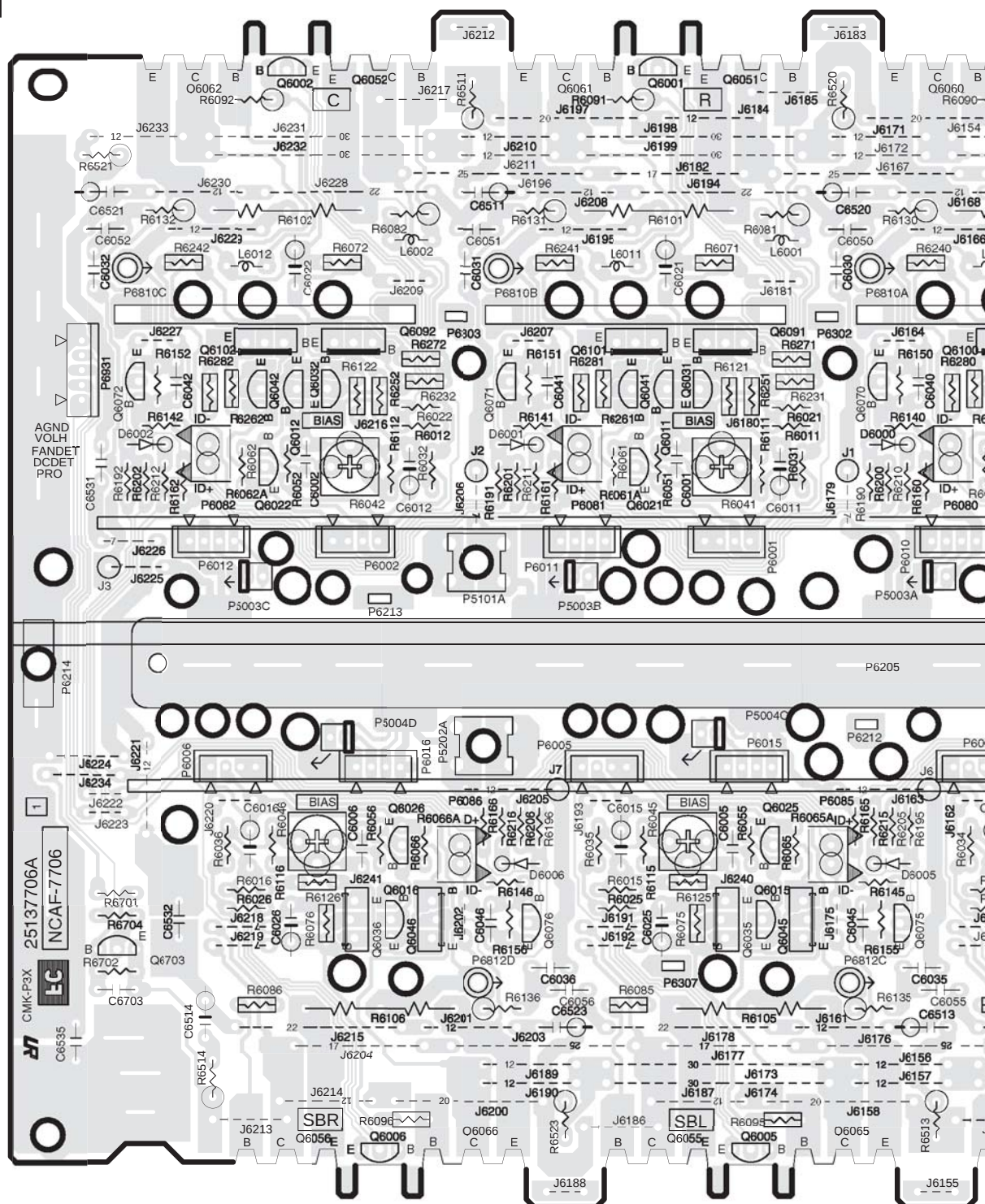
PRINTED CIRCUIT BOARD VIEW 5-1

U22

SURROUND DRIVER CIRCUIT PC BOARD
(NAAF-7690)

PRINTED CIRCUIT BOARD VIEW 6-1

U21

POWER AMPLIFIER PC BOARD
(NAAF-7706)

A

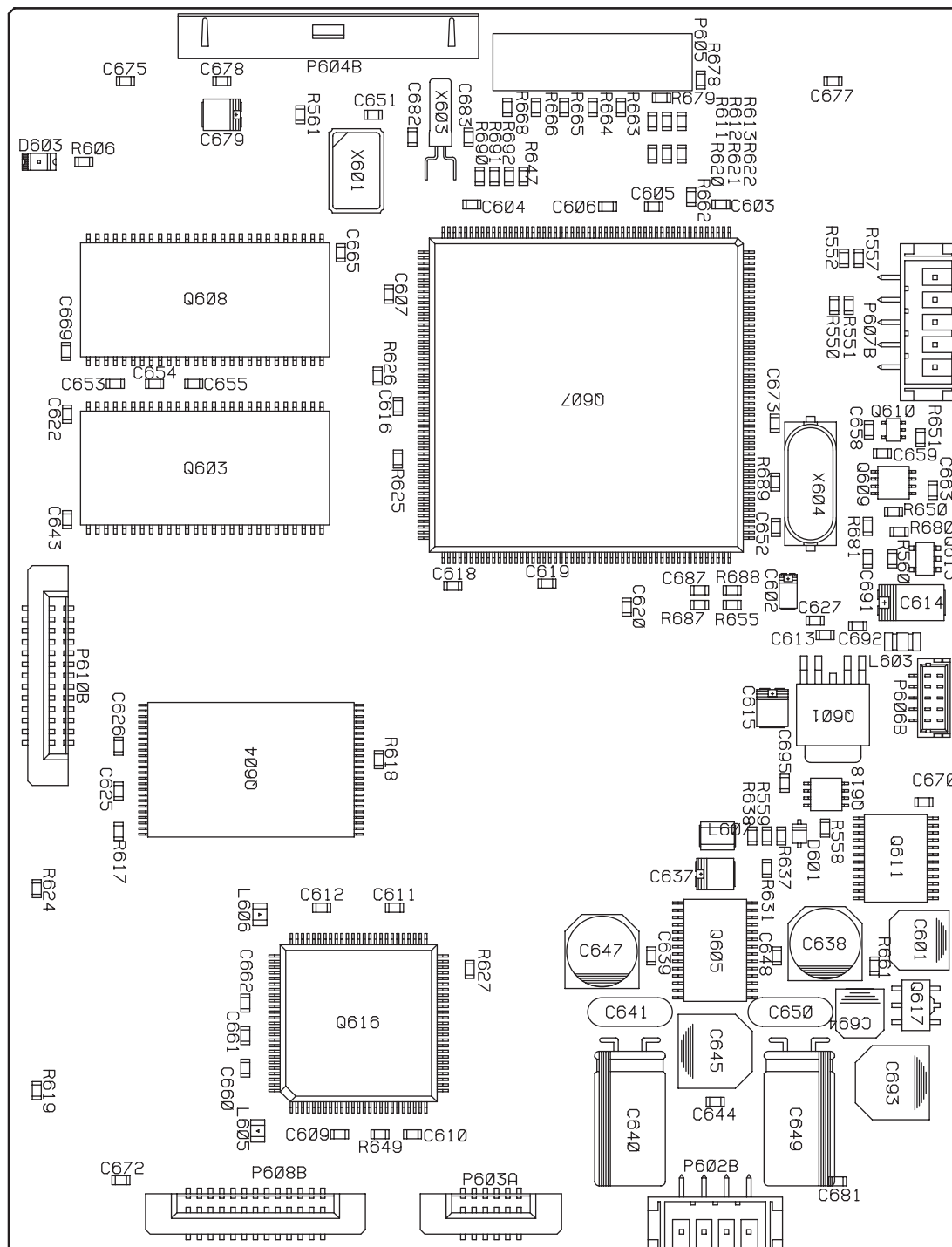
B

C

D

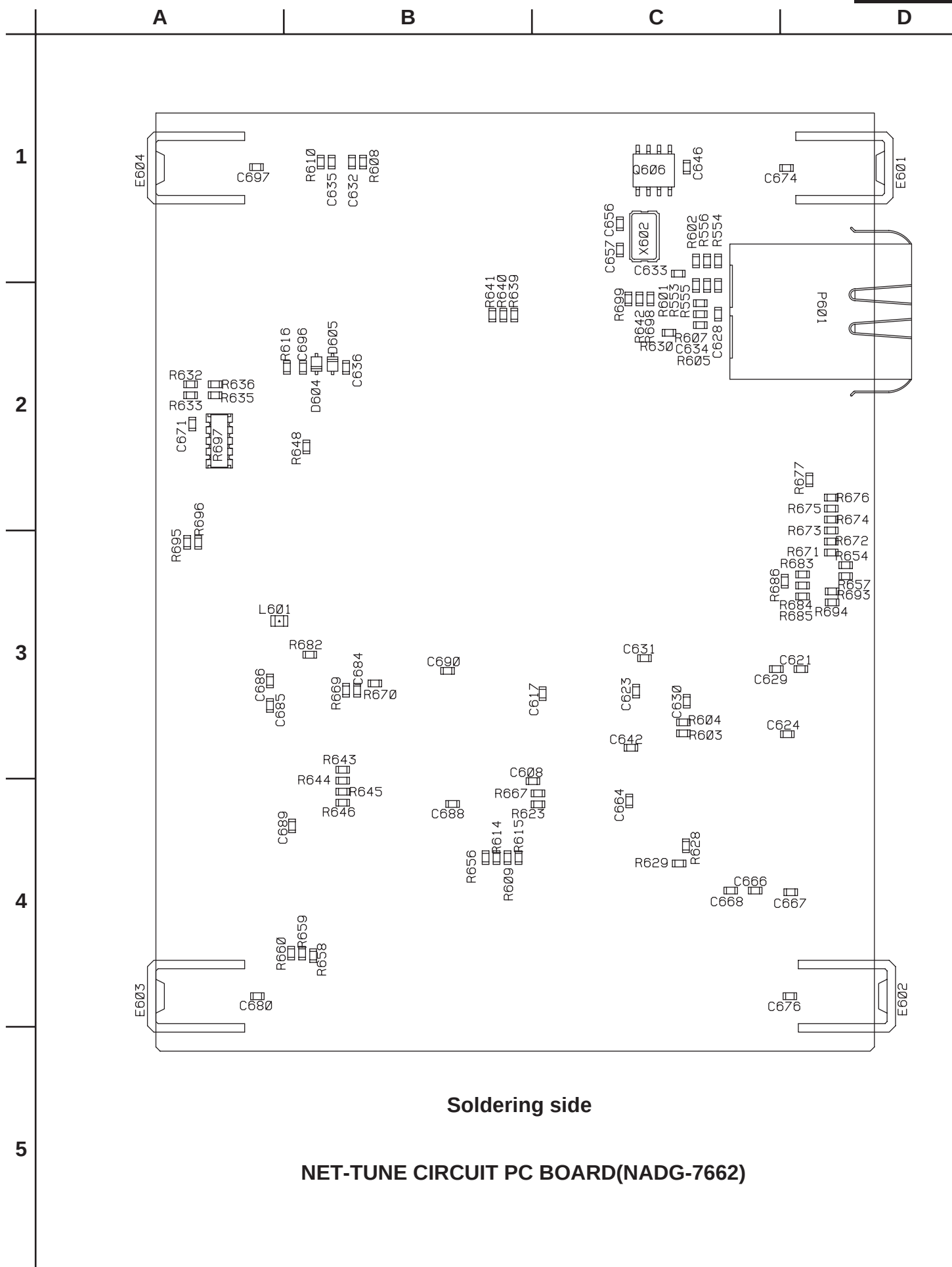
PRINTED CIRCUIT BOARD VIEW FROM COMPONENT SIDE 8

U8

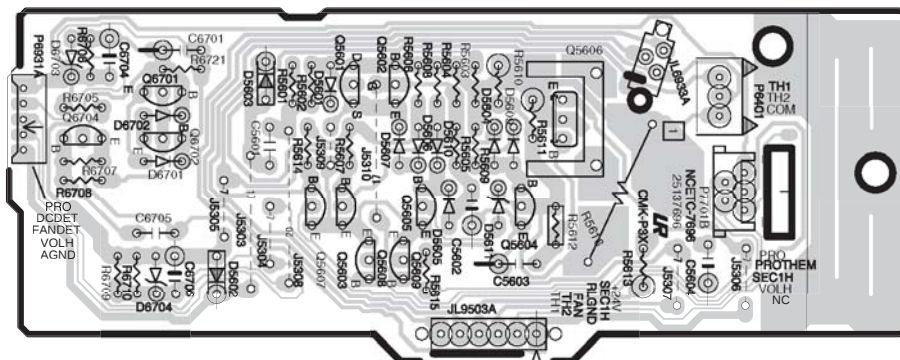


Component side

NET-TUNE CIRCUIT PC BOARD(NADG-7662)

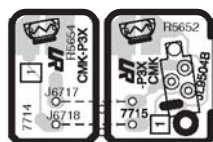


U32



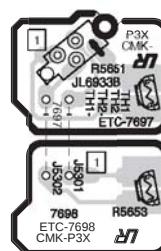
FAN DRIVE CIRCUIT PC BOARD (NAETC-7696)

U24



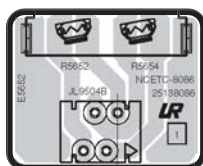
**THERMAL DET.
PC BOARD
(NAETC-7714)
Australian model only**

U33



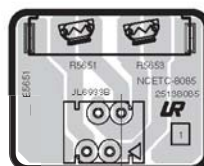
**THERMAL DET.
PC BOARD
(NAETC-7697)
Australian model only**

U48



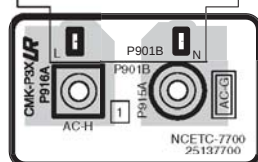
**THERMAL DET.
PC BOARD
(NAETC-8086)
120V model only**

U47



**THERMAL DET.
PC BOARD
(NAETC-8085)
120V model only**

U35



AC INLET PC BOARD (NAETC-7700)

A

B

C

D

PRINTED CIRCUIT BOARD VIEW 9-1

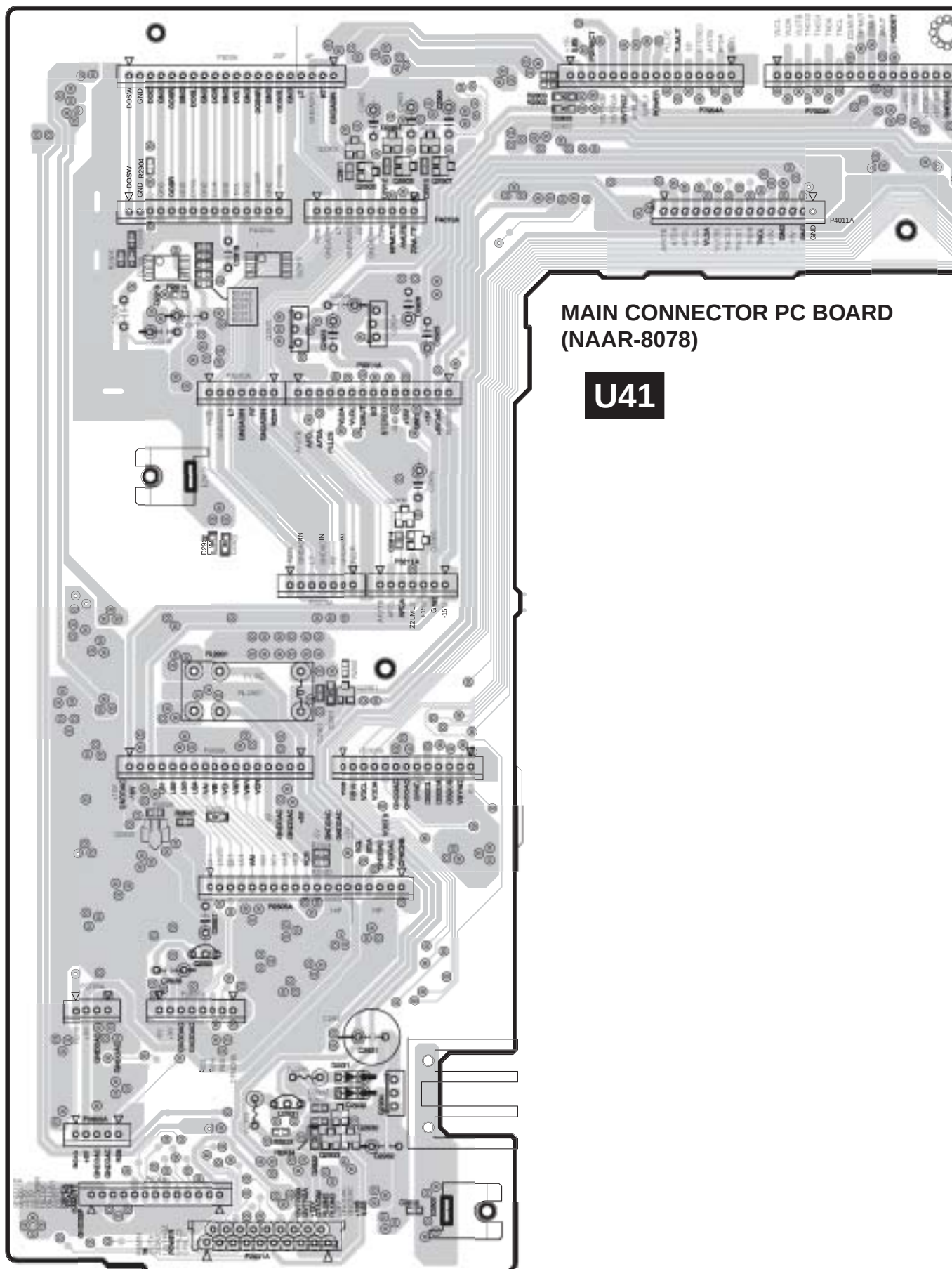
1

2

3

4

5



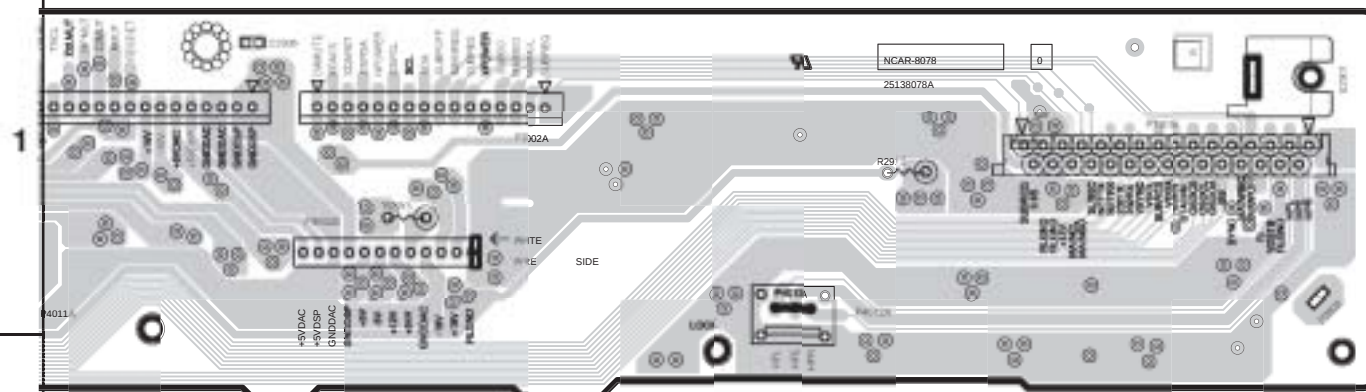
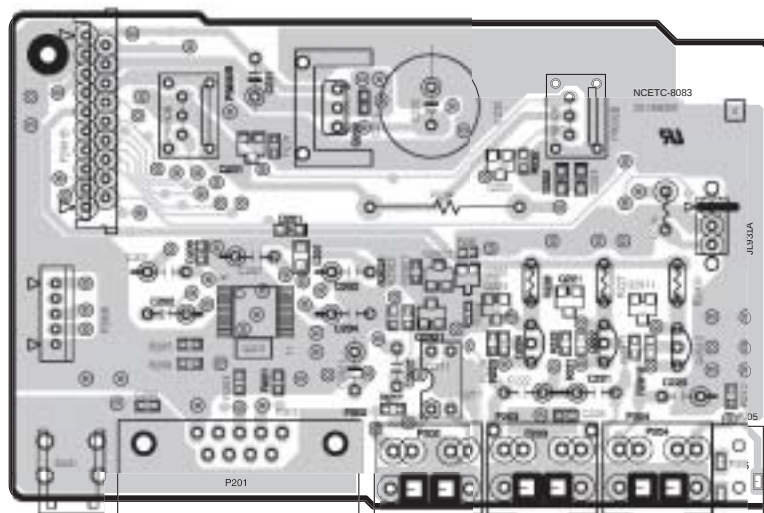
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 9-2

**U41****MAIN CONNECTOR PC BOARD
(NAAR-8078)****U45****CONTROL TERMINAL PC BOARD
(NAETC-8083)**

A

B

C

D

PRINTED CIRCUIT BOARD VIEW 9-1

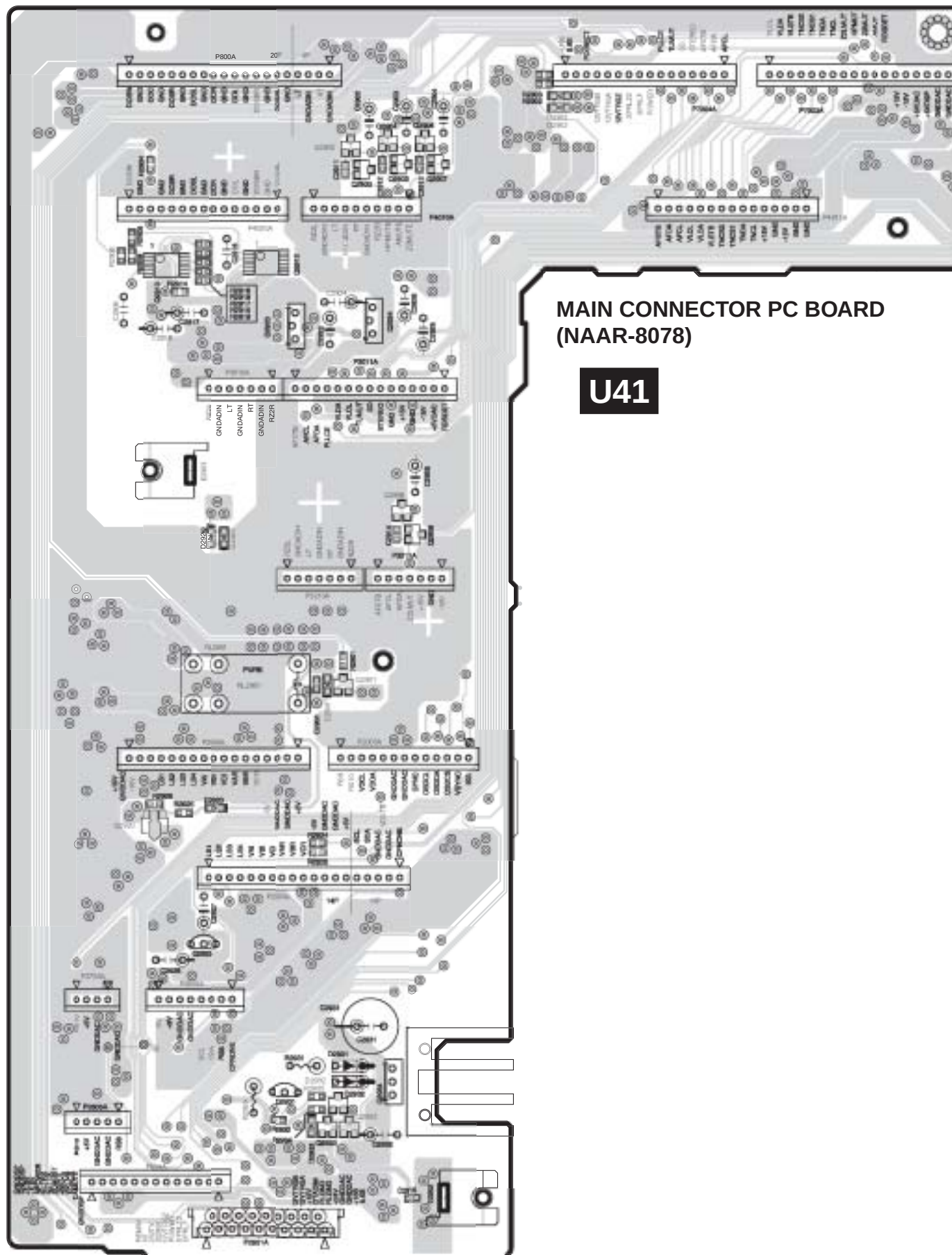
1

2

3

4

5



MAIN CONNECTOR PC BOARD
(NAAR-8078)

U41

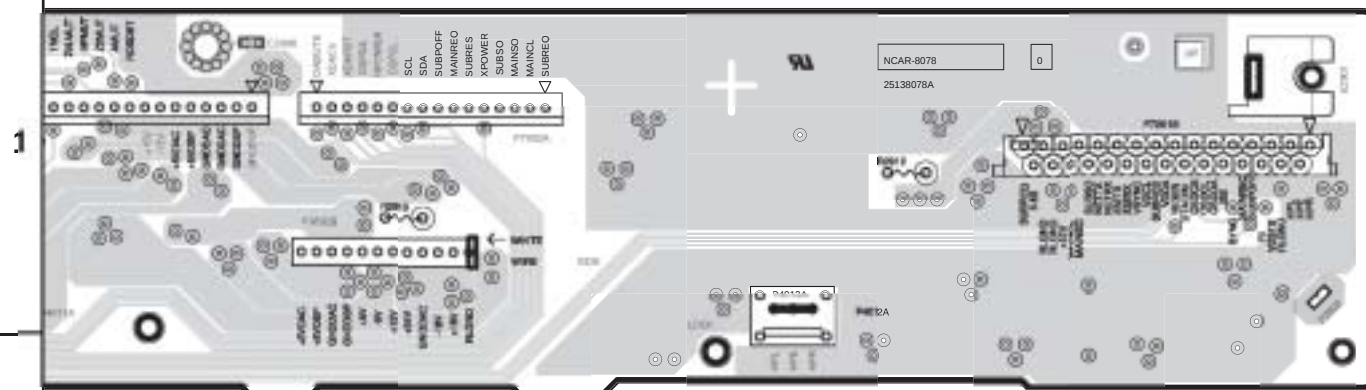
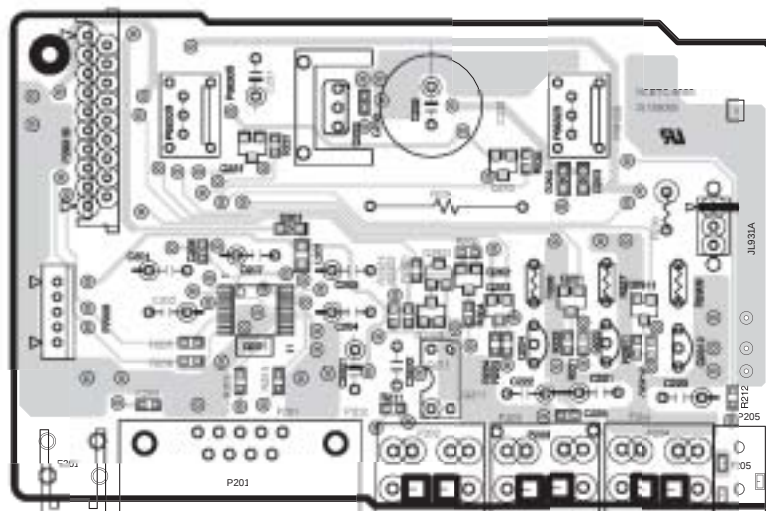
A

B

C

D

PRINTED CIRCUIT BOARD VIEW 9-2

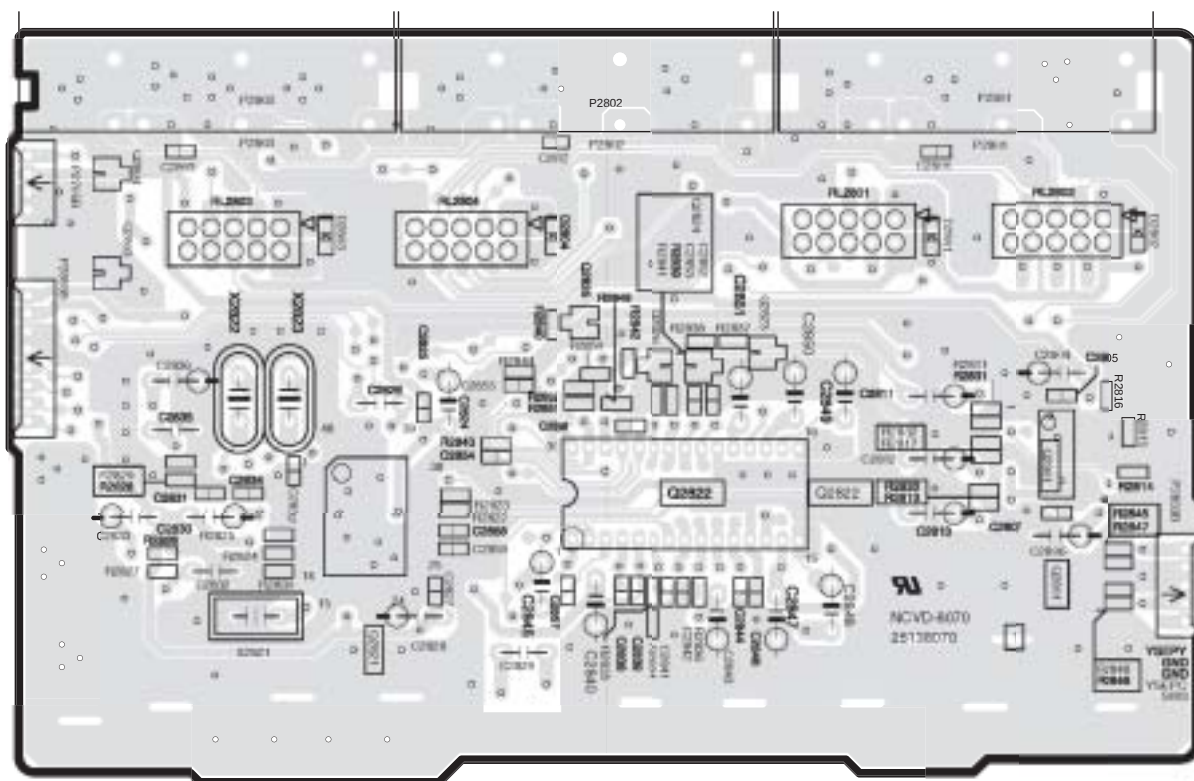
**U41****MAIN CONNECTOR PC BOARD
(NAAR-8078)****U45****CONTROL TERMINAL PC BOARD
(NAETC-8083)**

5

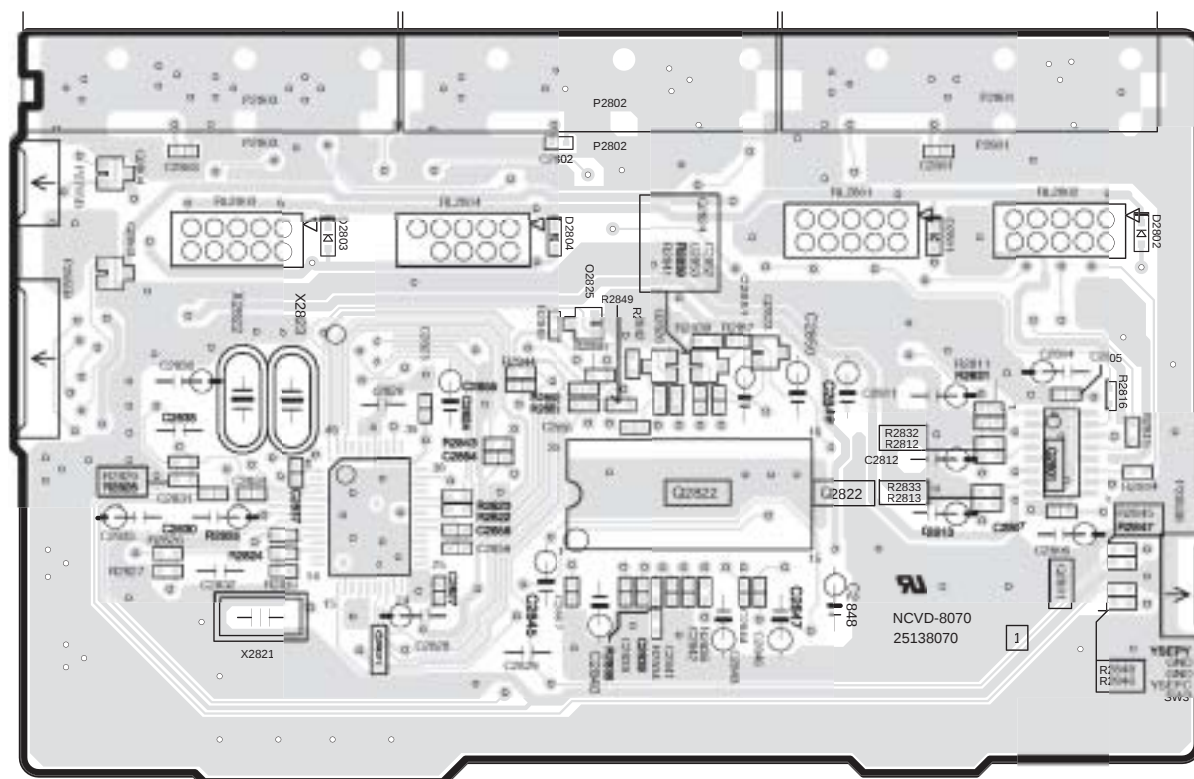


COMPOSITE VIDEO PC BOARD (NAVD-8079)

PRINTED CIRCUIT BOARD VIEW 10-2



Soldering side A (Parts location side)



Soldering side B

U52

**COMPONENT VIDEO PC BOARD
(NAVD-8070)**

A

B

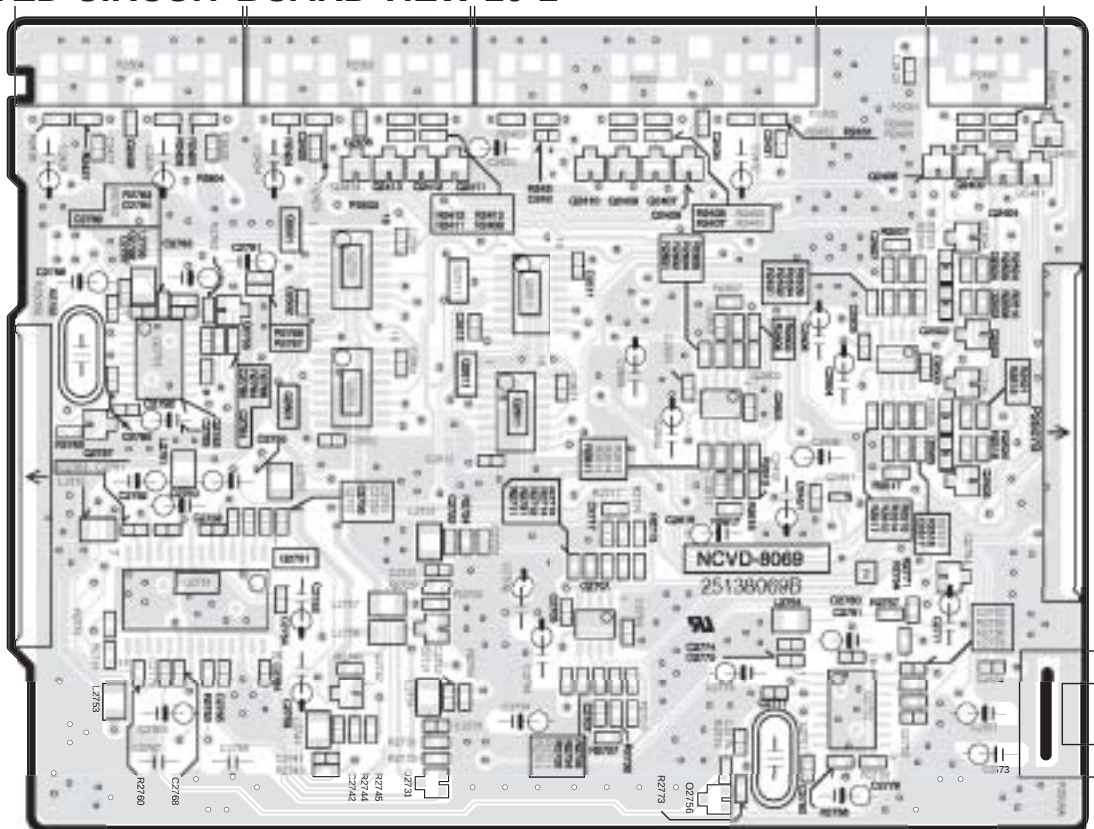
C

D

PRINTED CIRCUIT BOARD VIEW 10-1

1

2

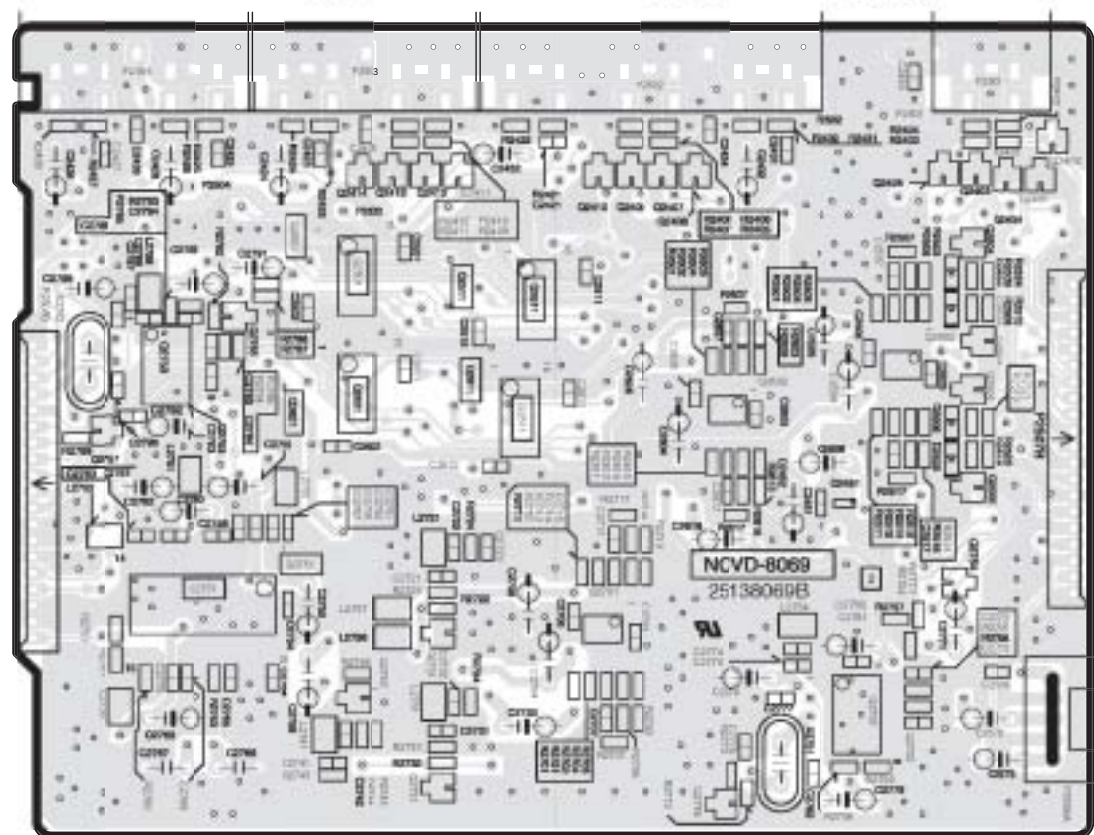


Soldering side A (Parts location side)

3

4

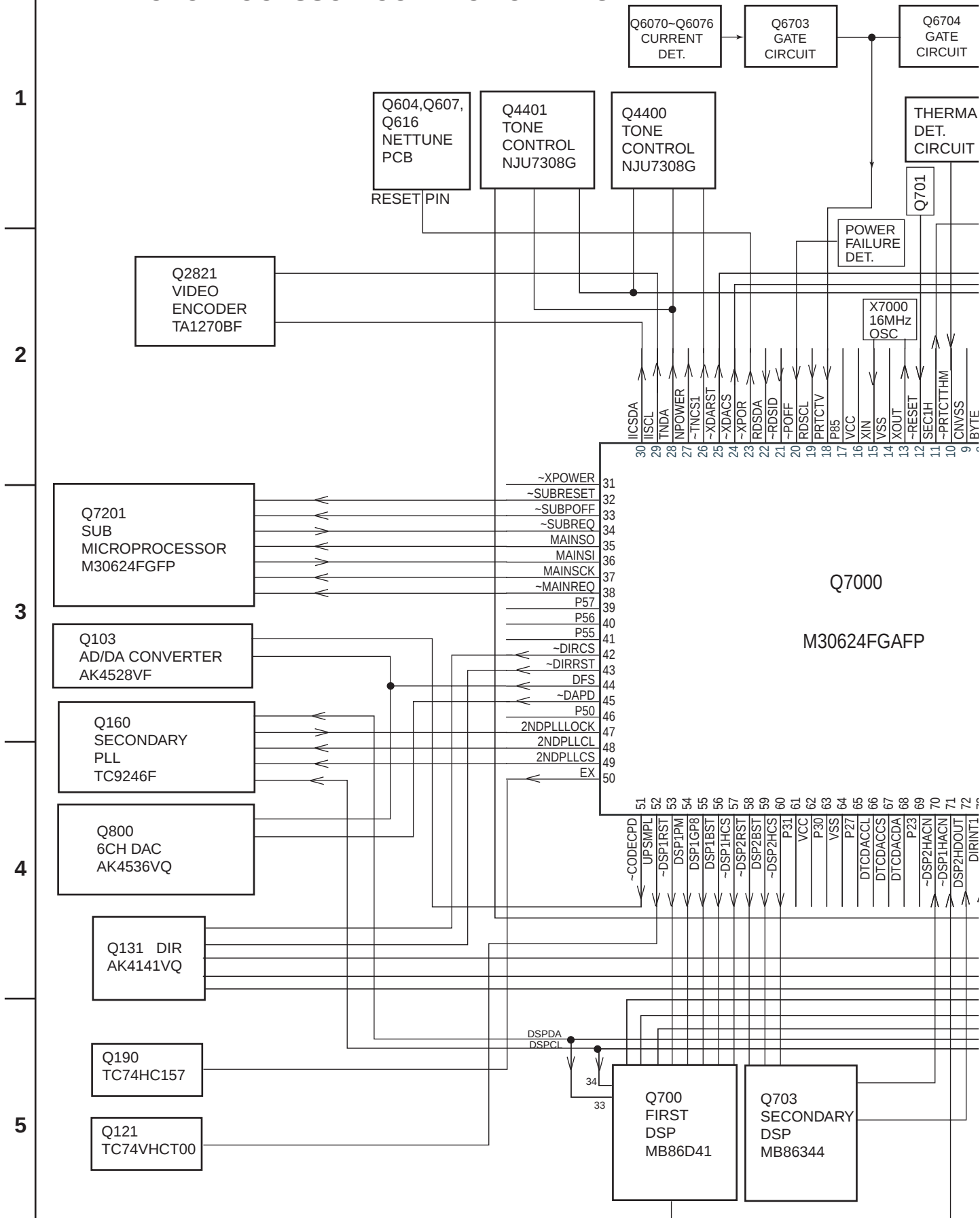
5



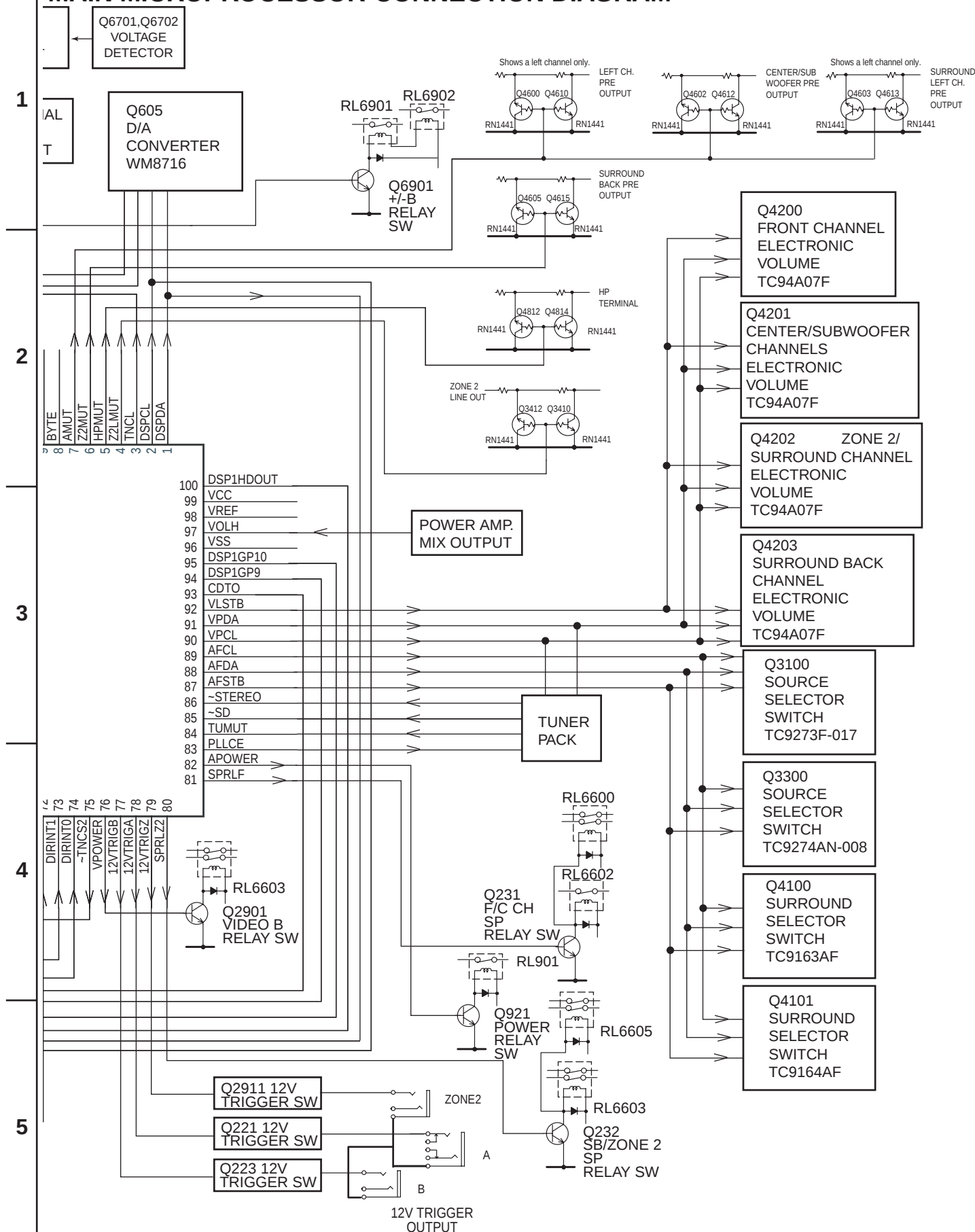
Soldering side B
S VIDEO PC BOARD
(NAVD-8069)

U51

MAIN MICROPROCESSOR-CONNECTION DIAGRAM



MAIN MICROPROCESSOR-CONNECTION DIAGRAM



SUB MICROPROCESSOR-CONNECTION DIAGRAM

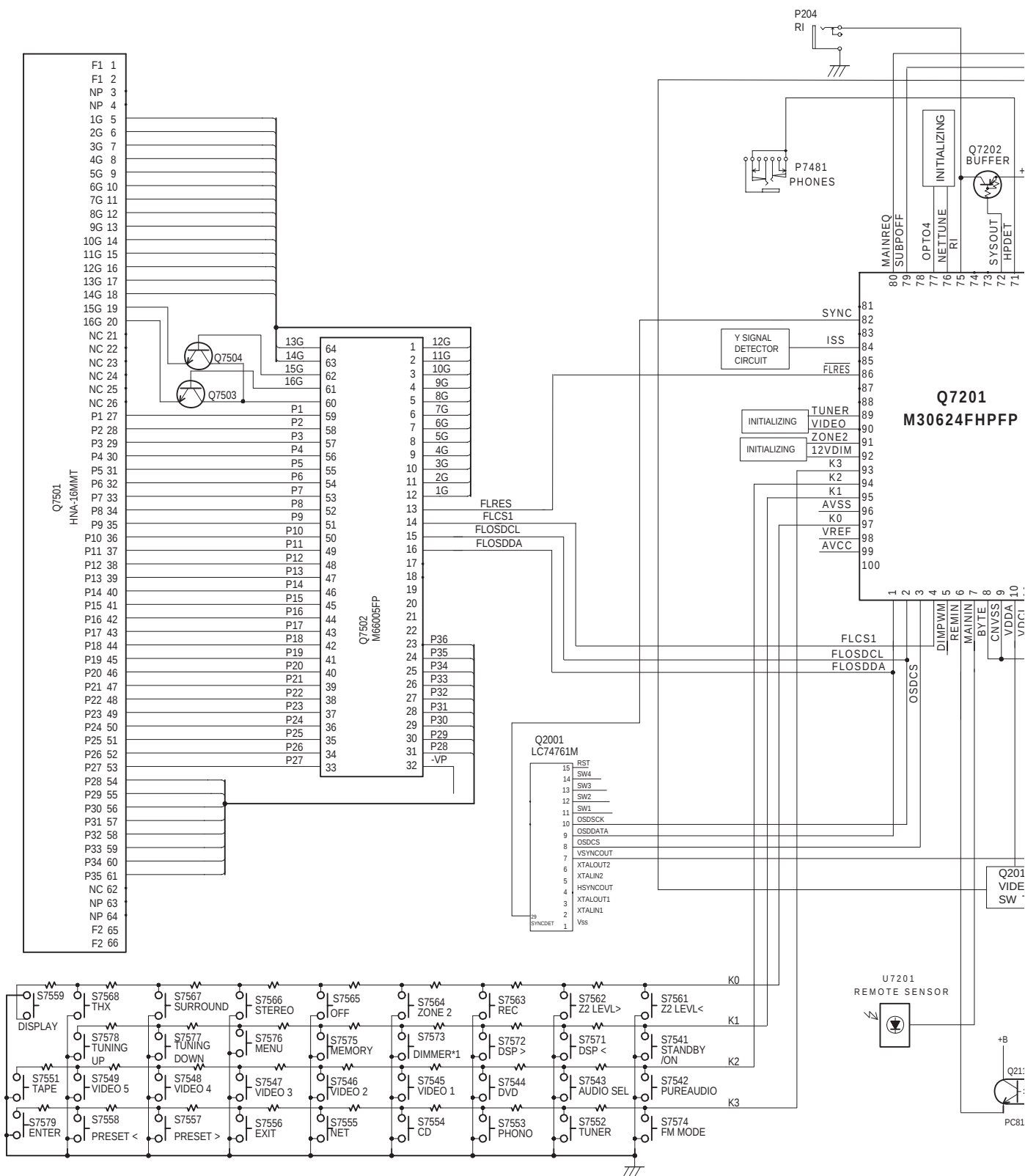
1

2

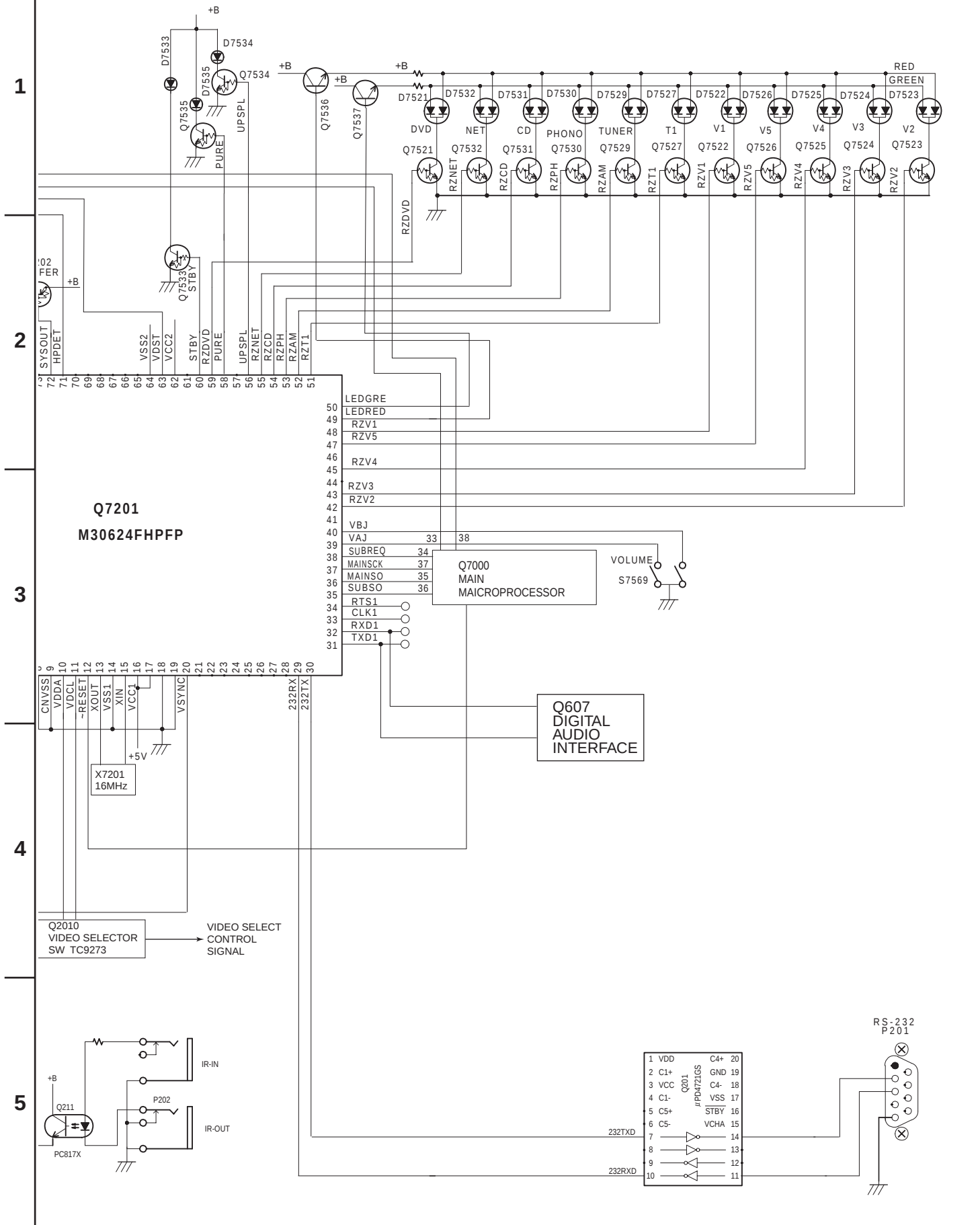
3

4

5



SUB MICROPROCESSOR-CONNECTION DIAGRAM



MAIN MICROPROCESSOR-TERMINAL DESCRIPTION

No.	Function	I/O	Description
1	DSPDA	O	Serial data output pin to transfer the data to DSP, DIR, Nettune DAC and Second PLL ICs.
2	DSPCL	O	Serial clock output pin to transfer the data to DSP, DIR and Nettune DAC ICs.
3	TNCL	CLK	Serial clock output pin for the tone control ICs.
4	Z2LMUT	O	Muting control signal output pin for line of zone 2 channel.
5	HPMUT	O	Muting control signal output pin for headphone.
6	Z2MUT	O	Muting control signal output pin for zone 2 channel when the power source is turned on.
7	AMUT	O	Muting control signal output pin of analog section.
8	VSS		External data bus width select pin.
9	VSS		Processor mode select pin
10	~PRTCTTHM	I	Detection input pin for thermal protect.
11	SEC1H	O	Primary voltage select pin for main amplifier.
12	~RESET		System reset input pin
13	XOUT		System clock output pin. Connect 16MHz ceramic resonator between #13 and #15.
14	VSS		Ground pin.
15	XIN		System clock input pin. Connect 16MHz ceramic resonator between #13 and #15.
16	VCC		Power supply pin. Apply 5V.
17		I	Not used.
18	PRTCTV	I	Detection input pin for protection circuit of abnormal voltage and current.
19	RDSCL	I	Serial clock input pin of RDS demodulator.
20	~POFF	I	Power failure detection input pin.
21	~RDSID	I	Identification input pin of RDS demodulator.
22	RSDA	I	Serial data input pin to transfer RDS demodulator.
23	~XPOR	O	Reset output pin to multi media microprocessor when power is turned on.
24	~XDACS	O	Chip select output pin of DAC for Nettune.
25	~XDARST	O	Reset signal output pin of DAC for Nettune.
26	~TNCS1	O	Chip select output pin for tone control IC of front channel.
27	NPOWER	O	Power supply control output pin of audio circuit.
28	TNDA	O	Serial data output pin to tone control IC.
29	IICSCS	O	Serial clock output pin to Y/C, Component separation IC.
30	IICSDA	O	Serial data output pin to Y/C, Component separation IC.
31	~XPOWER	O	Power supply control output pin. Not used.
32	~SUBRESET	O	Reset signal output pin for submicroprocessor.
33	~SUBPOFF	O	Power off output pin to submicroprocessor
34	~SUBREQ	I	Transfer request signal input pin for submicroprocessor.
35	MAINSO	O	Serial data output pin to transfer data between main and submicroprocessor.
36	MAINSI	I	Serial data input pin to transfer data between main and submicroprocessor.
37	MAINSCK	O	Serial clock output pin to transfer data between main and submicroprocessor.
38	~MAINREQ	O	Request signal output pin to transfer data between main and submicroprocessor.
39	P57	O	Not used.
40	(2ndBTACT)	O	Not used.
41	P55	I	Mode setting pin to write the program on flash microprocessor.
42	~DIRCS	O	Chip select output pin to DIR(AK4114) IC.
43	~DIRRST	O	Reset output pin to DIR IC.
44	DFS	O	DFS output pin of DAC and CODEC ICs.
45	~DAPD	O	Power down output pin of DAC.
46	P50	I	Write mode setting pin of flash microprocessor.
47	K	I	Lock input pin of second PLL IC.
48	2NDPLLCL	O	Clock output pin to second PLL IC.
49	2NDPLLCS	O	Chip select output pin of second PLL IC.
50	EX	O	Input select output pin of nettune.

No.	Function	I/O	Description
51	~CODECPD	O	Power down output pin of CODEC IC.
52	UPSMPL	O	Clock select output pin for up-sampling.
53	~DSP1RST	O	Reset output pin of first DSP IC.
54	DSP1PM	O	PLL initializing output pin of first DSP IC.
55	DSP1GP8	O	PCM or Non PCM information output pin of first DSP IC.
56	DSP1BST	O	Host I/F bootstrap output pin of first DSP IC.
57	~DSP1HCS	O	Host I/F chip select output pin of first DSP IC.
58	~DSP2RST	O	Second DSP reset output pin.
59	DSP2BST	O	Host I/F bootstrap output pin of second DSP IC.
60	~DSP2HCS	O	Host I/F chip select output pin of second DSP IC.
61	(2ndBOOT)	O	"L" fixed output pin.
62	VCC		Power supply pin. Apply +5V.
63	(2ndPAGESE)	O	"H" fixed output pin.
64	VSS		Power supply pin. Ground
65	(HPAGE)	O	"L" fixed output pin.
66	DTCDACCL	O	Clock output pin for DAC of DTC.D
67	DTCDACCS	O	Chip select output pin for DAC of DTC.D
68	DTCDACDA	O	data output pin for DAC of DTC.D
69	(2ndGP10)	O	"L" fixed output pin.
70	~DSP2HACN	I	Host I/F acknowledgement input pin of second DSP.2
71	~DSP1HACN	I	Host I/F acknowledgement input pin of first DSP.1
72	DSP2HDOUT	I	Host I/F serial data output pin to second DSP IC.
73	DIRINT1	I	INT 1 input pin of DIR IC.
74	DIRINT0	I	INT 0 input pin of DIR IC.
75	~TNCS2	O	Chip select output pin to tone control IC.
76	VPOWER	O	Power supply relay control output pin of video circuit.
77	12VTRGB	O	12V trigger output pin B.
78	12VTRGA	O	12V trigger output pin A.
79	12VTRGZ	O	12V trigger output pin ZONE 2.
80	SPRLZ2	O	Speaker relay control output pin for Zone 2.
81	SPRLF	O	Speaker relay control output pin for all channels.
82	APOWER	O	Power supply relay control output pin of audio circuit.
83	PLLCE	O	Chip enable output pin to PLL IC.
84	TUMUT	O	Muting control output pin for tuner section.
85	~SD	I	Detection input pin for signal strength.
86	~STEREO	I	Detection input pin for FM stereo broadcast.
87	AFSTB	O	Strobe signal output pin of analog function switch ICs.
88	AFDA	O	Serial data output pin for function switch ICs.
89	AFCL	O	Serial clock output pin for function switch ICs.
90	VPCL	O	Serial clock output pin for electric volume and PLL ICs.
91	VPDA	O	Serial data output pin for electric volume and PLL ICs.
92	VLSTB	O	Strobe output pin of electrical volume.
93	CDT0	I	Serial data input pin for DSP and DIR ICs.
94	DSP1GP9	I	Permission information input pin to read bit stream information of first DSP.
95	DSP1GP10	I	INTREQ input pin of first DSP IC.
96	VSS		Ground pin for A/D converter.
97	VOLH	I	Input pin to measure the output voltage of main amplifier.
98	VREF		Reference voltage input pin for A/D converter.
99	VCC		Power supply pin for A/D converter.
100	DSP1HDOUT	I	Serial data output pin of host I/F of first DSP.

ADJUSTMENT AND CONFIRMATION PROCEDURES 1

Idling current adjustment

Before Idling current adjustment, turn the trimming resistors R6040 to R6046 to counter-clockwise.

Connect the DC voltmeter at the sockets P6080 to P6086.

After turn POWER to ON, adjust the trimming resistors R6040, R6041 and R6042 so that the reading of voltmeter becomes 11 mV. (Front and center channels)

Adjust the trimming resistors R6043, R6044, R6045 and R6046 so that the reading of voltmeter becomes 4.5 mV. (Surround and surround back channels)

After adjustment, attach the top cover.

Confirm the voltage of points above after about five minutes.

Front and center channels

When less than 16.5 mV, readjust the resistors above so that the voltage becomes 16.5 mV.

When 16.5 mV to 18.5 mV, you are not necessary to adjust.

When more than 18.5 mV, readjust the resistors above so that the voltage becomes 18.5 mV.

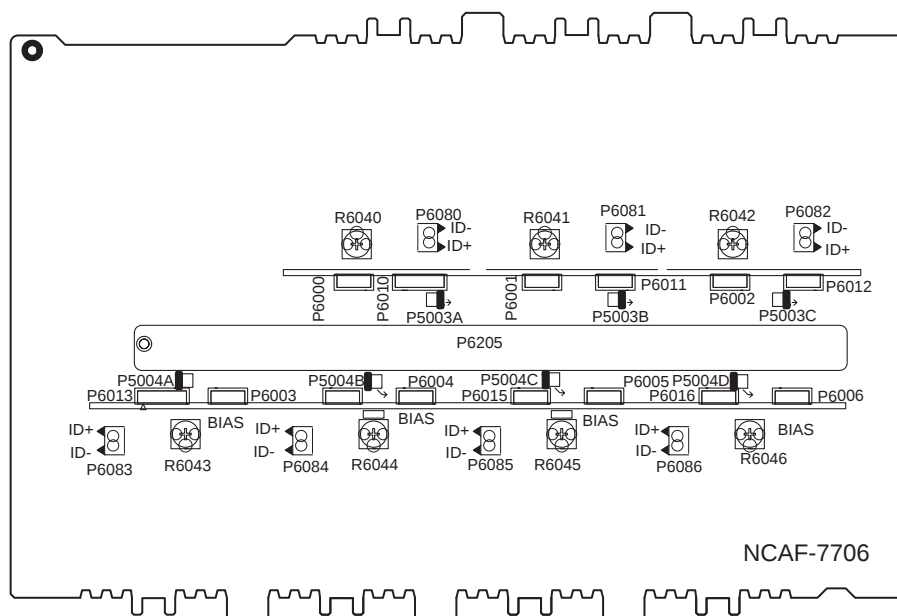
Surround and surround back channels

When less than 6.0 mV, readjust the resistors above so that the voltage becomes 6.0 mV.

When 6.0 mV to 8.0 mV, you are not necessary to adjust.

When more than 8.0 mV, readjust the resistors above so that the voltage becomes 8.0 mV.

Note: No load and No signal



Confirmation of protection circuit

1. Confirmation of operation of speaker relay

Confirm that the speaker relays turn ON approximate. 5 seconds after the power switch is turned ON.

Confirm that the speaker relays turn OFF immediately after the power switch is turned OFF.

2. Confirmation of DC detection circuit

Press and hold down CD button, then press STANDBY/ON and DISPLAY buttons to set the unit to "Test " mode.

After "Test " on the FL tube light on, press VIDEO 1 button to set the unit to "Test-1-00".

Apply DC 1.5 to 3.5V to the MULTI-CH INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

Apply DC -1.5 to -3.5 V to the MULTI-CH INPUT terminal with no load.

Confirm that the speaker relay turns OFF.

Caution: Don't apply DC voltage more than 1 sec..

ADJUSTMENT AND CONFIRMATION PROCEDURES 2

3. Confirmation of Current detection circuit

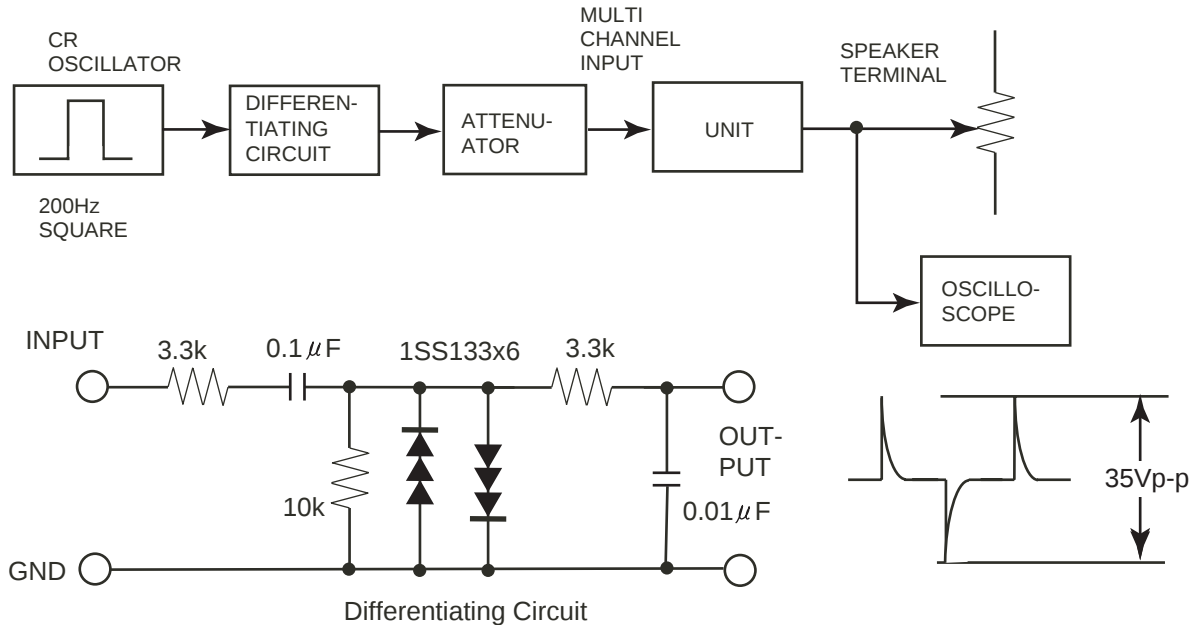
Set the unit to "TEST-1-00".

Connect the differentiating circuit and apply the 200Hz square signal to MULTI CHANNEL INPUT terminal of each channel.

Adjust the attenuator or Volume so that the output level becomes 35V p-p.

Confirm that the speaker relay does not turn OFF when a 3.0 ohm load is connected.

Confirm that the speaker relay turns OFF when a 1.5 ohm load is connected.



4. Confirmation of fan

Set the unit to "TEST-1-00".

Apply the 1kHz -30dBV signal to the left channel of MULTI-CH terminal with no load.

Confirm that the fan rotates slow speed after few seconds.

Confirm the operation above at all channels.

Connect the 1.2 kohm/1W resistor between terminals COM and TH-1 of P6401 with no input signal.

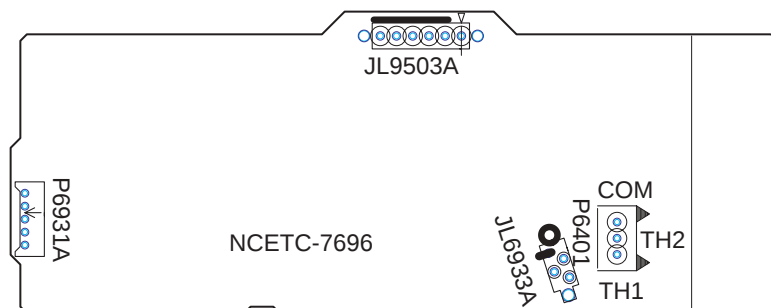
Confirm that the fan rotates slow speed after few seconds.

Next apply the 1kHz -30dBV signal to the left channel of MULTI-CH terminal with no load.

Confirm that the fan rotates high speed after few seconds.

Connect the 1.2 kohm/1W resistors between terminals COM-TH-1 and COM-TH-2 of P6401 respectively with no input signal.

Confirm that the fan rotates high speed after few seconds.



ADJUSTMENT AND CONFIRMATION PROCEDURES 3

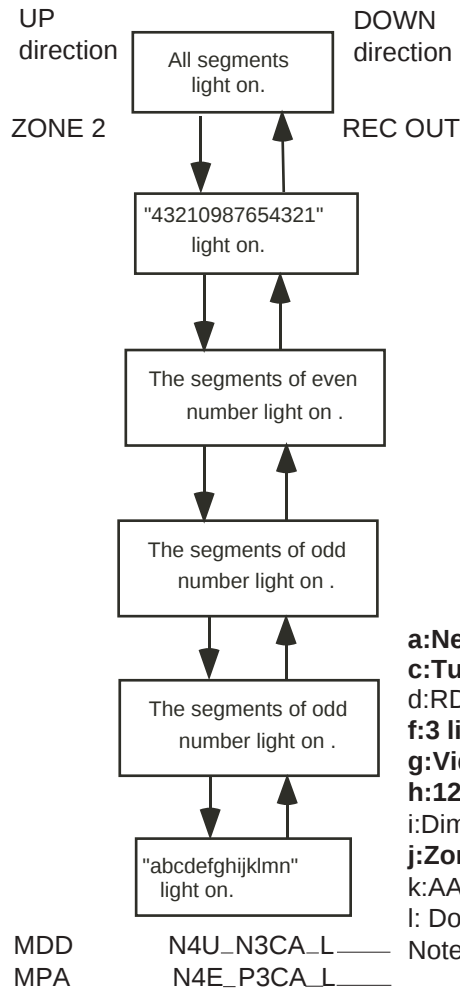
Test Mode

1. Turn POWER button on.
2. Press and hold down CD button, then press DISPLAY and STANDBY/ON buttons.
3. After "TEST" on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.

Note: VIDEO 1:TEST-1 VIDEO 2:TEST-2
VIDEO 3:TEST-3 VIDEO 4:TEST-4

Test mode of FL tube

ZONE 2....UP
REC OUT.....DOWN



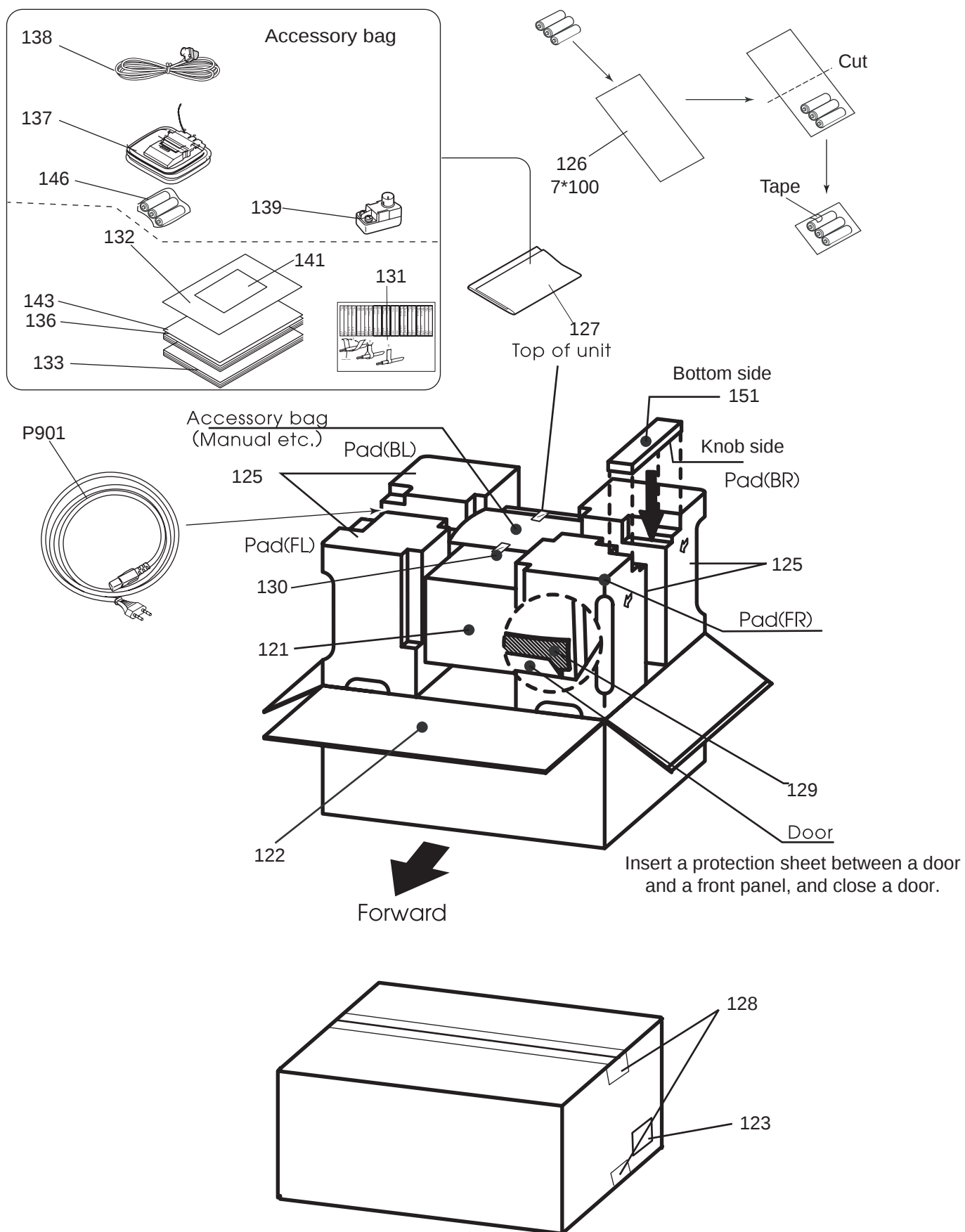
Confirmation of voltage sensor

1. Set the unit to TEST-3-4.
 2. Apply the signal 1kHz, -15dBV to the MULTI-CH input. Confirm that the FM STEREO is displayed. Confirm the all channels except SUBWOFFER.
 3. When connect the resistor 1.2 kohm/1 W between the terminals COM and TH2 of P6401, confirm that "THX" light on.
 4. When change set the unit to "TEST-3-05, confirm that the speaker relays of RL6901 and RL6902 turn off.
- Note: No input signal.
- Note: No input signal.

a:Net-tune function "N":avaiable b:Optical input 4 "4":avaiable
c:Tuner aria "U":USA and Canad "E":Europe "W":Worldiwde " _ ":Japan
d:RDS function "R":avaiable e:Video format "P":PAL/NTSC auto "N":NTSC
f:3 line Y/C separation function "3":avaiable
g:Video converer function: "C":avaiable
h:12V trigger function "A":A/B/Zone2 "Z":Zone 2 only
i:Dimmer interlock function "D":avaiable
j:Zone 2 Lineout function "L":avaiable
k:AAC function "A":avaiable
l: Dolby headphone function "H":avaiable m: THX Ultra2:"U":avaiable n:No use
Note: All functions " _ ": No avaiable AAC: Japanese model only

Press POWER button
to finish the test mode of FL tube.

PACKING VIEW



EXPLODED VIEW-PARTS LIST		
	NOTE: THE COMPONENTS IDENTIFIED BY MARK !	
	ARE CRITICAL FOR RISK OF FIRE AND	
	ELECTRIC SHOCK. REPLACE ONLY WITH	
	PART NUMBER SPECIFIED.	
	CAUTION: Replacement for transistor of mark *, if necessary	
	must be made from the same beta group (hFE) as	
	the original type.	
	NOTE: <D>:120V model only	
	<A>:Australian model only	
REF. NO.	PART NO.	DESCRIPTION
1	27111242C	Front bracket
2	27191153B	Holder HP
3	28133387	Back plate
4	28135278	Badge
5	27130745	Bracket
6	27130869	Bracket, heatsink
7	27130870A	Bracket PT
8	27141876-1	Bracket, cover
11	27100408-1B	Chassis
12	28191939	Clear plate
13	27255004	CS-1U,Clip
14	28184870A	Top cover
15	28141467	Cushion
16	28141484	Cushion
17	28141494	Cushion
18	28141511	t1.0*5*5,Cushion
19	28141546	Cushion DG
20	28141547	Cushion PI
21	28141548	Cushion CH
22	28141562	t5*30*5,Cushion
25	28141563	t3*50*10,Cushion
26	28141523-1	t1.5*14*3.5,Cushion
29	27301947	Damper
30	28159047	Decorative frame
31	28148556-1	Door
32	27212552-1	Front panel
34	28198905	Facet
35	28198933	Facet 5
36	28198936	Facet 6
37	27301946	Gear
39	27160489A	Heatsink
40	28180160	Hinge L
41	28180161	Hinge R
42	27191178A	Holder L
43	27191179	Holder R
44	27190965	Holder
45	27190693A	KGLS-6RT,Holder
46	27190266	KGLS-12RT,Holder
47	27190164	KGLS-14S,Holder
48	27191112	KGPS-6RF,Holder
49	27190470	KGLS-18S,Holder
51	28325756	Knob, standby
53	28325913	Knob, volume
57	29362772	Label, cover
58	29363509	Label, display
59	29363409-1	Label PT
60	27175319B	Leg
61	880016	P3035B,Plastic rivet
62	27262683	Plate, door
63	27230047	Push latch
64	27123158	Rear panel <D>
	27123159	Rear panel <A>
65	27141827	Retainer A
66	27141797	Retainer, fan
67	27141798	Retainer R
68	27141799	Retainer L
69	27141681	Retainer PWB
70	801433	3SMS8W.SW+14B(BC),Special screw

REF. NO.	PART NO.		DESCRIPTION
71	801606		3SMH10W.SW+15B(CU),Special screw
72	801608		TRX M4x8, Truss screw
73	838440089		4TTB+8C(BC),Self-tapping screw
74	801612		3TTB+8B(CU),Self-tapping screw
77	830440089		4TTC+8C(BC),Self-tapping screw
78	831430088		3TTW+8B(BC),Self-tapping screw
79	838120088		2TTB+8B,Self-tapping screw
80	838430088		3TTB+8B(BC),Self-tapping screw
82	838430107		3TTB+10S(BC),Self-tapping screw
84	838450108		5TTB+10B(BC),Self-tapping screw
85	838930088		3TTB+8B(UN),Self-tapping screw
86	27225149		Shield case
87	27150471		Shield plate AMP
88	27150474		Shield plate, wire
89	27150485		Shield plate
90	27150470		Shield plate, fan
91	27270438		t0.5x ϕ 8x ϕ 3.2,Spacer
92	29110083		Tape, cloth
93	87763006		W3X6B,Washer
94	87643010		W3*10F(BC),Washer
95	260258		Wire tie
96	260208		Wire tie
98	2061112100UL		Cord ass'y
99	223025		AC262,Isolated plate
100	24502310		D09T-24PG10(EX),Fan
101	260580		Label, super X
104	29363195		Label, hook-up <D>
108	29363264		Label MAC
F6901,F6902	252196	!	12A-UL/T-314,Fuse <D>
	252100	!	10A-EAK,Fuse <A>
F901	252196	!	12A-UL/T-314,Fuse <D>
F902	252078	!	5A-SE-EAK,
	252244 or	!	5A-SE-TL250V or
	252278	!	5A-SE-TL250V, Fuse <A>
F903	252164 or	!	5A-UL/T-237 or
	252258	!	5A-T/UL-ST2,Fuse <D>
	252075,	!	2.5A-SE-EAK,
	252241 or	!	2.5A-SE-TL250V or
	252275	!	2.5A-SE-TL250V,Fuse <A>
F9501,F9502	252160 or	!	2.5A-UL/T-237 or
	252254	!	2.5A-T/UL-ST2,Fuse <D>
	252075,	!	2.5A-SE-EAK,
	252241 or	!	2.5A-SE-TL250V or
	252275	!	2.5A-SE-TL250V,Fuse <A>
F9501A	29363313	!	T2.5AL1.6AL250V,Label,fuse <A>
F9503,F9504	252158 or	!	1.6A-UL/T-237 or
	252252	!	1.6A-T/UL-ST2,Fuse <D>
	252073,	!	1.6A-SE-EAK,
	252239 or	!	1.6A-SE-TL250V or
	252273	!	1.6A-SE-TL250V,Fuse <A>
P1010	2047151012		NCFC7-151012,Flat cable
P2901	2047191012		NCFC7-191012,Flat cable
P6009	27141825		Retainer, bus
P602	2009990753UL		NSAS-8P1059,Socket
P603	204406027		NCFC4-062512,Flat cable
P6205	27141826		Retainer, bus
P603C	79012		Tube UL
P7201	2047312512		NCFC7-312512,Flat cable
P7701	2047051012		NCFC7-051012,Flat cable
P901	253297KAW or	!	AS-UC-2 or
	253352TES	!	AS-UC-2,Power supply cord <D>
	253311VOL	!	AS-SAA,Power supply cord <A>
Q6050-Q6056	2203083 or	*	2SC5359-O or
	2203082	*	2SC5359-R,Transistor
Q6060-Q6066	2203073 or	*	2SA1987-O or
	2203072	*	2SA1987-R,Transistor
Q9422A	223026		Isolated sheet
Q9422B	223034		MT-25,Transistor accessory
T901	2301714	!	NPT-1481D,Power transformer <D>
	2301650	!	NPT-1453P,Power transformer <A>

PACKING-PARTS LIST		
REF. NO.	PART NO.	DESCRIPTION
122	29054094	Carton box
123	29363508	Label UPC
124	29100153	1020x770,Poly bag
125	29092125B	Pad
126	29100217	t0.1*70*100,Poly bag
127	29100097-1A	350*250,Poly bag
128	29110148	Tape PP
129	29095906	Protection sheet
130	29110149	Tape, cellophane
131	29363059A	Label, speaker cable
132	29355450	Instruction sheet, caution
133	29343578	Instruction manual E
136	29343579	Instruction manual, digist
137	232140	NMA-3057,AM loop anrtenna
138	292191	FM antenna
139	25065462	YAE21-0237,FM antenna adaptor <A>
141	29365089	Warranty card <D>
143	29343594	Instruction manual E, net-tune
146	3010054	R6/AA(UM-3),Battery
151	24140550	RC-550M,Remote controller
P901	253297KAW or !	AS-UC-2 or
	253352TES !	AS-UC-2,Power supply cord <D>
	253311VOL !	AS-SAA,Power supply cord <A>

PRINTED CIRCUIT BOARD-PARTS LIST		
NOTE: THE COMPONENTS IDENTIFIED BY MARK !		
ARE CRITICAL FOR RISK OF FIRE AND		
ELECTRIC SHOCK. REPLACE ONLY WITH		
PART NUMBER SPECIFIED.		
CAUTION: Replacement for transistor of mark *, if necessary		
must be made from the same beta group (hFE) as		
the original type.		
NOTE: <D>:120V model only		
<A>: Australian model only		
DISPLAY CIRCUIT PC BOARD (NADIS-7738-2E/2F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	FL tube	
Q7501	212245 or	16-BT-115GNK or
	212234	HNA-16MM40T
	ICs	
Q7201	22242003R3W	M30626FHPFP
Q7502	22241680AR2	M66005-0001AFP
	Remote sensor	
U7201	241352	SPS-444-1-VP
	Transistors	
Q7202	2216230R2 or	KRA103S or
	2214540R2	RN2403
Q7503,Q7504	2216175R2 or	KTC3875-GR or
Q7536,Q7537	2213145R2	2SC2712-GR
Q7521~Q7527	2216190R2 or	KRC102S or
Q7529~Q7535	2214470R2	RN1402
	Diodes	
D7201,D7202	223234R2 or	1SS352 or
D7502	223269R2	1SS355
D7203	224490510R2 or	UDZ5.1B or
	224550510R2	UDZS5.1B,Zener
D7501	224491100R2 or	UDZ11B or
	224551100R2	UDZS11B,Zener
D7521~D7527	225375	SML1216C
D7529~D7532	225375	SML1216C
D7533	225290	SEL4110R
D7534	225292D	SEL4310G-D
D7535	225374	SEL2E10C
	Coils	
L7201	231237M022R2 or	NCH-1471 or
	233533M022R2	NCH-1587-022M
R7201,R7202	230958R1	BK1608LM182-T
	Oscillator	
X7201	3010322	CST16.00MXW0C1
	Capacitors	
C2577,C2578	332161040R1	CK725F1E-104Z1, Ceramic
C7201,C7202	355721019	CE04W6.3V-100M,Elect.
C7203	375524744	MMT50V-474J,Plastic film
C7204,C7206	332174740R1	CK725F1C-474Z1,Ceramic
C7207	355721019	CE04W6.3V-100M,Elect.
C7208	332161040R1	CK725F1E-104Z1, Ceramic
C7213,C7214	332101025R1	CK725B1H-102K1,Ceramic
C7293~C7295	332101025R1	CK725B1H-102K1,Ceramic
C7297	332101025R1	CK725B1H-102K1,Ceramic
C7501,C7502	332174740R1	CK725F1C-474Z1,Ceramic
C7503	354721019S	CE04W6.3V-100M,Elect.
C7504,C7508	342101014R1	CC725CH1H-101J1,Ceramic
C7505,C7507	332161040R1	CK725F1E-104Z1, Ceramic
C7506	375524744	MMT50V-474J,Plastic film
C7509	332174740R1	CK725F1C-474Z1,Ceramic
C7510	355783309	CE04W50V-33M,Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R7203~R7207	435031024R1	RN72K1J-102JE,Carbon
R7209~R7212	435031024R1	RN72K1J-102JE,Carbon
R7218,R7219	435031034R1	RN72K1J-103JE,Carbon
R7220,R7263	435031024R1	RN72K1J-102JE,Carbon
R7229,R7230	435032214R1	RN72K1J-221JE,Carbon
R7231~R7234	435031014R1	RN72K1J-101JE,Carbon
R7235~R7238	435032214R1	RN72K1J-221JE,Carbon
R7239,R7240	435031034R1	RN72K1J-103JE,Carbon
R7242,R7243	435031034R1	RN72K1J-103JE,Carbon
R7245	435031034R1	RN72K1J-103JE,Carbon
R7247,R7248	435031034R1	RN72K1J-103JE,Carbon
R7249,R7250	435033314R1	RN72K1J-331JE,Carbon
R7251~R7256	435031034R1	RN72K1J-103JE,Carbon
R7258~R7260	435031034R1	RN72K1J-103JE,Carbon
R7271	435031034R1	RN72K1J-103JE,Carbon
R7272	435032214R1	RN72K1J-221JE,Carbon
R7275	435034724R1	RN72K1J-472JE,Carbon
R7279,R7280	435031024R1	RN72K1J-102JE,Carbon
R7282,R7284	435031034R1	RN72K1J-103JE,Carbon
R7286	435031034R1	RN72K1J-103JE,Carbon
R7289	435030004R1	RN72K1J-000JE,Carbon <D>
R7289	435031034R1	RN72K1J-103JE,Carbon <A>
R7290	435033334R1	RN72K1J-333JE,Carbon <A>
R7293~R7295	435034724R1	RN72K1J-472JE,Carbon
R7297,R7330	435034724R1	RN72K1J-472JE,Carbon
R7300,R7309	435031034R1	RN72K1J-103JE,Carbon
R7301	435032244R1	RN72K1J-224JE,Carbon
R7315,R7316	435031024R1	RN72K1J-102JE,Carbon
R7329	435031034R1	RN72K1J-103JE,Carbon
R7338~R7340	435031034R1	RN72K1J-103JE,Carbon
R7371	435031034R1	RN72K1J-103JE,Carbon
R7376,R7377	435031034R1	RN72K1J-103JE,Carbon
R7379,R7380	435031034R1	RN72K1J-103JE,Carbon
R7382	435031024R1	RN72K1J-102JE,Carbon
R7386	435031034R1	RN72K1J-103JE,Carbon
R7389	435033334R1	RN72K1J-333JE,Carbon <A>
R7390	435031034R1	RN72K1J-103JE,Carbon <D>
R7390	435035634R1	RN72K1J-563JE,Carbon <A>
R7391,R7392	435031034R1	RN72K1J-103JE,Carbon
R7393~R7395	435032724R1	RN72K1J-272JE,Carbon
R7397	435032724R1	RN72K1J-272JE,Carbon
R7431	435032214R1	RN72K1J-221JE,Carbon
R7432	435032224R1	RN72K1J-222JE,Carbon
R7501,R7502	435032214R1	RN72K1J-221JE,Carbon
R7503	435033314R1	RN72K1J-331JE,Carbon
R7504	435032734R1	RN72K1J-273JE,Carbon
R7505~R7508	435031024R1	RN72K1J-102JE,Carbon
R7511~R7526	435031034R1	RN72K1J-103JE,Carbon
R7533,R7534	435034714R1	RN72K1J-471JE,Carbon
R7535,R7536	435032714R1	RN72K1J-271JE,Carbon
R7538,R7539	435031814R1	RN72K1J-181JE,Carbon
R7540,R7543	435034714R1	RN72K1J-471JE,Carbon
R7541,R7542	435033314R1	RN72K1J-331JE,Carbon
R7544,R7553	435035614R1	RN72K1J-561JE,Carbon
R7545,R7554	435038214R1	RN72K1J-821JE,Carbon
R7546,R7555	435031224R1	RN72K1J-122JE,Carbon
R7547,R7556	435032224R1	RN72K1J-222JE,Carbon
R7548,R7557	435033924R1	RN72K1J-392JE,Carbon
R7551,R7558	435031234R1	RN72K1J-123JE,Carbon
R7552,R7562	435034714R1	RN72K1J-471JE,Carbon
R7561,R7574	435033314R1	RN72K1J-331JE,Carbon
R7563,R7572	435035614R1	RN72K1J-561JE,Carbon
R7564,R7573	435038214R1	RN72K1J-821JE,Carbon
R7565,R7575	435031224R1	RN72K1J-122JE,Carbon
R7566,R7576	435032224R1	RN72K1J-222JE,Carbon
R7567,R7577	435033924R1	RN72K1J-392JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R7571	435034714R1	RN72K1J-471JE,Carbon
R7578	435031234R1	RN72K1J-123JE,Carbon
R7601~R7604	435030004R1	RN72K1J-000JE,Carbon
	Switches	
S7541~S7549	25035714 or	NPS-111-S677 or
S7551~S7559	25035718	NPS-111-S681
S7561~S7568	25035714 or	NPS-111-S677 or
S7571~S7579	25035718	NPS-111-S681
	Sockets	
JL7201A	25051108	NSCT-4P895
P7201A	25051875	NSCT-31P1662
P7482A	25051089	NSCT-5P876
P7559A	25051087	NSCT-3P874
	Plug	
P7203	25056056	NPLG-8P1006
	Holder	
Q7501A	27191074A	(FL)
MASTER VOLUME PC BOARD (NAETC-7739-2E/2F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C7559,C7569	332161040R1	CK725F1E-104Z1, Ceramic
	Rotary encoder	
S7569	25065611	EC16B24C25
	Socket	
P7559B	25051087	NSCT-3P874
HEADPHONE TERMINAL PC BOARD (NAETC-7740-2E/2F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C7481,C7482	342101014R1	CC725CH1H-101J1,Ceramic
C7484	332161040R1	CK725F1E-104Z1, Ceramic
	Terminal	
P7481	25045385	YKB26-5153
	Socket	
P7482B	25051089	NSCT-5P876
FRONT VIDEO PC BOARD (NAETC-7741-2E/2F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C2571,C2572	347344714R1	CC732CH1H-471J,Ceramic
	Resistors	
R2571,R2572	435033314R1	RN72K1J-331JE,Carbon
R2573~R2575	435037504R1	RN72K1J-750JE,Carbon
	Terminal	
P2510	25045678	NPJ-3PDB475
	Sockets	
P2506B	2009990575UL	NSAS-10P0784
P2508	25051569	NSCT-4P1356
P3220B	2009990420	NSAS-6P0564
OPTICAL INPUT PC BOARD (NAETC-7742-2E/2F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Photo coupler	
U2501	24120101	TORX179L
	Capacitors	
C2576	332161040R1	CK725F1E-104Z1, Ceramic
C2579	354741009	CE04W16V-10M,Elect.
	Resistor	
R2576	435032204R1	RN72K1J-220JE,Carbon
	Socket	
P102B	2009990513UL	NSAS-6P0675

DSP CIRCUIT PC BOARD (NADG-7687-2B)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q100	22241448R2	NJM4580M-D
Q101,Q102	22241448R2	NJM4580M-D
Q103	22241522R2	AK4528VF
Q120	22274040ER2TO	TC74VHC4040FT
Q121	22274000GR2TO	TC74VHCT00AFT
Q130	222740046R2	74HCU04F
Q131	22241633R3	AK4114VQ
Q160	22240928R2	TC9246F
Q161	222780053R2JR	78L05(NJM78L05UA)
Q170	22278028DR2JR	NJM2391DL1-285
Q171	22278033DR2NE or	MPC2933T or
	22278033DR2JR	NJM2391DL1-33
Q190	22274157ER2TO or	TC74VHC157FT or
Q190 or	22274157IR2TI	SN74AHC157PWR
Q700	22242002R3	MB86D41BPFV-G-BND
Q7000	22241512R3W	M30624FGAFP
Q701,Q751	22274074ER2TO or	TC74VHC74FT or
	22274074IR2TI	SN74AHC74PWR
Q703	22241847R3	MB86344BPFV
Q705,Q706	22241612R2 or	CY7C1019BV33-15VCT or
	22241887R2	CY7C1019CV33-15VCT
Q7100,Q7101	22274541ER2TO or	TC74VHC541FT or
	22274541IR2TI	SN74AHC541PWR
Q7102	222740077R2TO	TC74HCT7007AF
Q800	22241521R3	AK4356VQ
Q801~Q804	22241449R2,	NJM5532M-D,
	22241409R2 or	BA15532F or
	22241472R2	NJM2114M-D
	Photo couplers	
U100~U103	24120101	TORX179L
U104,U105	24120102	TOTX179L
	Transistors	
Q162,Q7001	2214490R2 or	RN1404 or
	2216210R2	KRC104S
	Diodes	
D102~D109	223234R2 or	1SS352 or
D7000~D7004	223269R2	1SS355
D7005	224660624R2,	HZU6.2B,
	224490620R2 or	UDZ6.2B or
	224550620R2	UDZS6.2B
	Oscillators	
X160	3010331R2	HC-49/U03C24.576MHz,Crystal
X700	3010394R2	HC-49/U03C13.900MHz,Crystal
X7000	3010329R2	CSTCV16.00MXJ0C,Ceramic
X751	3010368R2	XTL-13.5M,Crystal
	Coils	
L101,L102	231237M022R2 or	NCH-1471 or
L131	233533M022R2	NCH-1587-022M
L130,L136	231237K470R2 or	NCH-1479 or
L160,L162	233533K470R2	NCH-1587-470K
L132,L134	230958R1	BK1608LM182-T
L133,L135	231237M022R2 or	NCH-1471 or
L701,L751	233533M022R2	NCH-1587-022M
L161	230958R1	BK1608LM182-T
L170,L753	231237K470R2 or	NCH-1479 or
	233533K470R2	NCH-1587-470K
L7000	231237K220R2 or	NCH-1477 or
	233533K220R2	NCH-1587-220K
L801,L802	231237M022R2 or	NCH-1471 or
	233533M022R2	NCH-1587-022M
R124,R125	230959R1	BK1608LL241-T
R133~R135	230958R1	BK1608LM182-T

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C100,C101	356744709R2	CEWX16V-47M,Elect.
C102,C103	356724709R2	CEWX6.3V-47M,Elect.
C104-C107	342101014R1	CC725CH1H-101J1,Ceramic
C108,C110	356724709R2	CEWX6.3V-47M,Elect.
C111,C115	332161040R1	CK725F1E-104Z1, Ceramic
C113,C114	373021524R2	ECHU50V-152J,Chip film
C116,C119	356723319R2	CEWX6.3V-330M,Elect.
C118	342101014R1	CC725CH1H-101J1,Ceramic
C120-C122	332161040R1	CK725F1E-104Z1, Ceramic
C128,C129	332161040R1	CK725F1E-104Z1, Ceramic
C130-C132	342101014R1	CC725CH1H-101J1,Ceramic
C133,C140	332161040R1	CK725F1E-104Z1, Ceramic
C134-C136	332121045R1	CK725B1C-104K1,Ceramic
C137-C139	342100802R1	CC725CH1H-080D1,Ceramic
C141,C148	356724709R2	CEWX6.3V-47M,Elect.
C142-C147	332161040R1	CK725F1E-104Z1, Ceramic
C149,C151	332161040R1	CK725F1E-104Z1, Ceramic
C150	356741009R2	CEWX16V-10M,Elect.
C152,C167	356724709R2	CEWX6.3V-47M,Elect.
C155	332101025R1	CK725B1H-102K1,Ceramic
C156	342101014R1	CC725CH1H-101J1,Ceramic
C157,C177	3567A1019R2	CEWX4V-100M,Elect.
C158,C160	332161040R1	CK725F1E-104Z1, Ceramic
C159	356784799R2	CEWX50V-0.47M,elect.
C161,C173	342101504R1	CC725CH1H-150J1,Ceramic
C162	342101204R1	CC725CH1H-120J1,Ceramic
C163,C164	342104704R1	CC725CH1H-470J1,Ceramic
C165	342111024R1	CC725CH1E-102J1,Ceramic
C166	337394745R1	CK732B1C-474K,Ceramic
C168,C169	332161040R1	CK725F1E-104Z1, Ceramic
C170,C172	356724709R2	CEWX6.3V-47M,Elect.
C171,C174	332161040R1	CK725F1E-104Z1, Ceramic
C175,C179	332161040R1	CK725F1E-104Z1, Ceramic
C176	356744709R2	CEWX16V-47M,Elect.
C178	3567A1019R2	CEWX4V-100M,Elect.
C190,C7001	332161040R1	CK725F1E-104Z1, Ceramic
C700,C701	332161040R1	CK725F1E-104Z1, Ceramic
C7000	3000078 or	DX-5R5L104 or
	3000121	SCDA5R5104V,Super
C7002,C7003	356721019R2	CEWX6.3V-100M,Elect.
C7004	356780109R2	CEWX50V-1M,Elect.
C7005	356721019R2	CEWX6.3V-100M,Elect.
C7006-C7010	332161040R1	CK725F1E-104Z1, Ceramic
C702,C703	342102204R1	CC725CH1H-220J1,Ceramic
C704-C712	332161040R1	CK725F1E-104Z1, Ceramic
C7100,C7101	332161040R1	CK725F1E-104Z1, Ceramic
C719,C720	3567A1019R2	CEWX4V-100M,Elect.
C751-C763	332161040R1	CK725F1E-104Z1, Ceramic
C764-C766	3567A1019R2	CEWX4V-100M,Elect.
C767,C768	332161040R1	CK725F1E-104Z1, Ceramic
C769,C770	342102204R1	CC725CH1H-220J1,Ceramic
C801	342101014R1	CC725CH1H-101J1,Ceramic
C802,C807	356723319R2	CEWX6.3V-330M,Elect.
C803,C806	332161040R1	CK725F1E-104Z1, Ceramic
C819,C820	373024724R2	ECHU50V-472J,Chip film
C823,C824	373024724R2	ECHU50V-472J,Chip film
C826	373043334R2	ECHU16V-333J,Chip film
C827-C830	373026814R2	ECHU50V-681J,Chip film
C831-C834	373023314R2	ECHU50V-331J,Chip film
C835-C838	373026814R2	ECHU50V-681J,Chip film
C839,C840	373023314R2	ECHU50V-331J,Chip film
C841,C842	373041534R2	ECHU16V-153J,Chip film
C847,C848	356744709R2	CEWX16V-47M,Elect.
C849,C850	356741019R2	CEWX16V-100M,Elect.
C851-C854	356744709R2	CEWX16V-47M,Elect.
C855	332101035R1	CK725B1H-103K1,Ceramic

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
L702,L752	433228294R1	RN72K2B-829JE,Carbon
R100,R101	435031044R1	RN72K1J-104JE,Carbon
R102,R103	435031844R1	RN72K1J-184JE,Carbon
R104,R105	435031034R1	RN72K1J-103JE,Carbon
R106~R111	435034724R1	RN72K1J-472JE,Carbon
R112~R115	435032204R1	RN72K1J-220JE,Carbon
R117~R119	435033314R1	RN72K1J-331JE,Carbon
R120	435034704R1	RN72K1J-470JE,Carbon
R121	435033314R1	RN72K1J-331JE,Carbon
R122,R123	435031024R1	RN72K1J-102JE,Carbon
R126	435033314R1	RN72K1J-331JE,Carbon
R127	435034724R1	RN72K1J-472JE,Carbon
R128	435033324R1	RN72K1J-332JE,Carbon
R130~R132	435037504R1	RN72K1J-750JE,Carbon
R136~R138	435031034R1	RN72K1J-103JE,Carbon
R139~R142	435034714R1	RN72K1J-471JE,Carbon
R143~R147	435034704R1	RN72K1J-470JE,Carbon
R149	435031024R1	RN72K1J-102JE,Carbon
R150	435032214R1	RN72K1J-221JE,Carbon
R151~R153	435031024R1	RN72K1J-102JE,Carbon
R154,R155	435032214R1	RN72K1J-221JE,Carbon
R156	435031834R1	RN72K1J-183JE,Carbon
R157~R160	435034714R1	RN72K1J-471JE,Carbon
R161,R162	435031524R1	RN72K1J-152JE,Carbon
R163	435035624R1	RN72K1J-562JE,Carbon
R164	435031014R1	RN72K1J-101JE,Carbon
R165,R173	435031034R1	RN72K1J-103JE,Carbon
R166~R168	435031024R1	RN72K1J-102JE,Carbon
R169,R193	435034704R1	RN72K1J-470JE,Carbon
R174~R175	435033314R1	RN72K1J-331JE,Carbon
R176	435036814R1	RN72K1J-681JE,Carbon
R190	435031024R1	RN72K1J-102JE,Carbon
R191,R192	435033314R1	RN72K1J-331JE,Carbon
R194,R197	435034704R1	RN72K1J-470JE,Carbon
R195,R196	435033314R1	RN72K1J-331JE,Carbon
R198,R199	435033314R1	RN72K1J-331JE,Carbon
R700~R703	435033314R1	RN72K1J-331JE,Carbon
R7000	435031014R1	RN72K1J-101JE,Carbon
R7001,R7002	435032214R1	RN72K1J-221JE,Carbon
R7003	435033314R1	RN72K1J-331JE,Carbon
R7004~R7007	435034714R1	RN72K1J-471JE,Carbon
R7008	435032244R1	RN72K1J-224JE,Carbon
R7009,R7012	435032224R1	RN72K1J-222JE,Carbon
R7010,R7011	435031024R1	RN72K1J-102JE,Carbon
R7013	435031034R1	RN72K1J-103JE,Carbon
R7018,R7019	435031024R1	RN72K1J-102JE,Carbon
R7020	435032224R1	RN72K1J-222JE,Carbon
R7023~R7025	435034714R1	RN72K1J-471JE,Carbon
R7026,R7028	435033314R1	RN72K1J-331JE,Carbon
R7027	435034714R1	RN72K1J-471JE,Carbon
R7029,R7030	435031014R1	RN72K1J-101JE,Carbon
R7031~R7033	435031024R1	RN72K1J-102JE,Carbon
R7034,R7036	435032224R1	RN72K1J-222JE,Carbon
R7035,R7037	435032214R1	RN72K1J-221JE,Carbon
R7038	435031024R1	RN72K1J-102JE,Carbon
R7042	435033314R1	RN72K1J-331JE,Carbon
R7043~R7045	435034714R1	RN72K1J-471JE,Carbon
R7047~R7050	435034714R1	RN72K1J-471JE,Carbon
R705~R708	435033314R1	RN72K1J-331JE,Carbon
R7051~R7060	435031024R1	RN72K1J-102JE,Carbon
R7069~R7074	435031024R1	RN72K1J-102JE,Carbon
R7075	435033314R1	RN72K1J-331JE,Carbon
R7076~R7086	435031024R1	RN72K1J-102JE,Carbon
R7087~R7092	435033314R1	RN72K1J-331JE,Carbon
R709~R712	435034704R1	RN72K1J-470JE,Carbon
R7093~R7097	435031024R1	RN72K1J-102JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R7102,R7109	435031034R1	RN72K1J-103JE,Carbon
R7103	435031004R1	RN72K1J-100JE,Carbon
R7104~R7107	435031024R1	RN72K1J-102JE,Carbon
R7110	435032234R1	RN72K1J-223JE,Carbon
R7112	435034734R1	RN72K1J-473JE,Carbon
R7119	435031054R1	RN72K1J-105JE,Carbon
R7126,R7128	435033314R1	RN72K1J-331JE,Carbon
R713~R716	435033314R1	RN72K1J-331JE,Carbon
R7131,R7132	435031034R1	RN72K1J-103JE,Carbon
R7153~R7160	435033314R1	RN72K1J-331JE,Carbon
R7169~R7174	435031024R1	RN72K1J-102JE,Carbon
R717,R718	435031024R1	RN72K1J-102JE,Carbon
R7184~R7186	435032234R1	RN72K1J-223JE,Carbon
R719,R727	435033314R1	RN72K1J-331JE,Carbon
R720,R725	435031024R1	RN72K1J-102JE,Carbon
R730	435031024R1	RN72K1J-102JE,Carbon
R732~R735	435033314R1	RN72K1J-331JE,Carbon
R743,R747	435031024R1	RN72K1J-102JE,Carbon
R750,R770	435031024R1	RN72K1J-102JE,Carbon
R755,R756	435034704R1	RN72K1J-470JE,Carbon
R757~R759	435033314R1	RN72K1J-331JE,Carbon
R760,R761	435035604R1	RN72K1J-560JE,Carbon
R762~R765	435033314R1	RN72K1J-331JE,Carbon
R767,R768	435035604R1	RN72K1J-560JE,Carbon
R769,R771	435033314R1	RN72K1J-331JE,Carbon
R772,R773	435035604R1	RN72K1J-560JE,Carbon
R774,R775	435034704R1	RN72K1J-470JE,Carbon
R777,R778	435035604R1	RN72K1J-560JE,Carbon
R779~R781	435031024R1	RN72K1J-102JE,Carbon
R782	43474056004R1	RM0KJ560X04,CR array
R783	435032214R1	RN72K1J-221JE,Carbon
R784	435031024R1	RN72K1J-102JE,Carbon
R785,R786	435035604R1	RN72K1J-560JE,Carbon
R787~R791	43474056004R1	RM0KJ560X04,CR array
R792~R794	435035604R1	RN72K1J-560JE,Carbon
R795	435034724R1	RN72K1J-472JE,Carbon
R796~R798	435031024R1	RN72K1J-102JE,Carbon
R801,R804	435031024R1	RN72K1J-102JE,Carbon
R802,R803	435034704R1	RN72K1J-470JE,Carbon
R805~R808	435034704R1	RN72K1J-470JE,Carbon
R811~R814	435033324R1	RN72K1J-332JE,Carbon
R815~R818	435030004R1	RN72K1J-000JE,Carbon
R819~R822	435033324R1	RN72K1J-332JE,Carbon
R823,R824	435030004R1	RN72K1J-000JE,Carbon
R825,R826	435033324R1	RN72K1J-332JE,Carbon
R827~R830	435031224R1	RN72K1J-122JE,Carbon
R831~R834	435032224R1	RN72K1J-222JE,Carbon
R835~R838	435031224R1	RN72K1J-122JE,Carbon
R839,R840	435032224R1	RN72K1J-222JE,Carbon
R841,R842	435031224R1	RN72K1J-122JE,Carbon
R843~R858	435034724R1	RN72K1J-472JE,Carbon
R859~R872	435031814R1	RN72K1J-181JE,Carbon
R873,R874	435034724R1	RN72K1J-472JE,Carbon
R875~R882	435032204R1	RN72K1J-220JE,Carbon
	Terminals	
P101	25045624	NPJ-3PDO431
	Sockets	
P603B	25052572R2	NSCT-6P2469
P7002	25051527	NSCT-16P1314
P7003	25051241	NSCT-20P1031
P7004	25051527	NSCT-16P1314
P7701A	25052277R2	NSCT-5P2174
P800	25051241	NSCT-20P1031
	Plugs	
P100	25055133	NPLG-3P117
P7000	25056056	NPLG-8P1006

NET-TUNE PC BOARD (NADG-7662-3)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q601	22241778R2	BA33C25FP
Q603	22242010R2 or	IS42S16400-7T or
	22241861R3	HM5264165FTT-B6
Q604	22241862R3	MX29LV320BTC-90
Q605	22241821R2	WM8716EDS
Q606	22241872R2	93LC46BT/SN
Q607	22241863R3	EP7312-CV
Q608	22242010R2 or	IS42S16400-7T or
	22241861R3	HM5264165FTT-B6
Q609	22241161R2	TC7W14FU
Q610	22241159R2	TC7S02FU
Q616	22241867R3	CS8900A-CQ3
Q618	22241161R2	TC7W14FU
	Diodes	
D601	223234R2 or	1SS352 or
D604,D605	223269R2	1SS355
D603	225385R2	SEC1201C
	Oscillators	
X601	3010374R2	DSO-751SV,Crystal
X602	3010371R2	DSX630G,Crystal
X603	3010372R2	SM-26F,Crystal
X604	3010373R2	SMD-49,Crystal
	Coils	
L601	230949R2	BLM21P221SG
L603	3030048R2	NFE31PT471F1E9
L605,L606	230949R2	BLM21P221SG
L607	231237K470R2	NCH-1479
R639,R640	230958R1	BK1608LM182-T
	Capacitors	
C602	395530477R2	F93-10V-4.7M,Chip tantal
C603-C613	332161040R1	CK725F1E-104Z1, Ceramic
C614-C627	395544707R2	F93-16V-47M,Chip tantal
C628	342105614R1	CC725CH1H-561J1,Cermic
C629-C631	332161040R1	CK725F1E-104Z1, Ceramic
C633,C634	332101035R1	CK725B1H-103K1,Ceramic
C636,C639	332161040R1	CK725F1E-104Z1, Ceramic
C637,C679	395521017R2	F93-6.3V-100M,Chip tantal
C638,C645	356721019R2	CEWX6.3V-100M,Elect.
C640,C649	393322217	CE04W6.3V-220M(VX),Elect.
C641,C650	374721044	ECQ-V50V-104J,Plastic film
C642-C644	332161040R1	CK725F1E-104Z1, Ceramic
C646,C648	332161040R1	CK725F1E-104Z1, Ceramic
C647,C693	356721019R2	CEWX6.3V-100M,Elect.
C651-C655	332161040R1	CK725F1E-104Z1, Ceramic
C658-C669	332161040R1	CK725F1E-104Z1, Ceramic
C673,C678	332161040R1	CK725F1E-104Z1, Ceramic
C674,C676	332101025R1	CK725B1H-102K1,Ceramic
C680	332101025R1	CK725B1H-102K1,Ceramic
C682	342105604R1	CC725CH1H-560J1,Ceramic
C683	342101002R1	CC725CH1H-100D1,Ceramic
C685,C686	342101504R1	CC725CH1H-150J1,Ceramic
C687-C690	332161040R1	CK725F1E-104Z1, Ceramic
C692,C695	332161040R1	CK725F1E-104Z1, Ceramic
C696,C697	332101025R1	CK725B1H-102K1,Ceramic
	Resistors	
R550-R552	435031034R1	RN72K1J-103JE,Carbon
R553,R554	435031012R1	RN72K1J-101FE,Carbon
R555,R556	435032734R1	RN72K1J-273JE,Carbon
R557-R559	435031034R1	RN72K1J-103JE,Carbon
R561	435030004R1	RN72K1J-000JE,Carbon
R601,R602	435031012R1	RN72K1J-101FE,Carbon
R603,R604	435030004R1	RN72K1J-000JE,Carbon
R605,R607	435030822R1	RN72K1J-082FE,Carbon
R606	435033314R1	RN72K1J-331JE,Carbon
R608,R610	435030004R1	RN72K1J-000JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R609	435031034R1	RN72K1J-103JE,Carbon
R611~R615	435031034R1	RN72K1J-103JE,Carbon
R617,R618	435031034R1	RN72K1J-103JE,Carbon
R619,R624	435031514R1	RN72K1J-151JE,Carbon
R623,R627	435031034R1	RN72K1J-103JE,Carbon
R625	435030004R1	RN72K1J-000JE,Carbon
R628,R629	435030004R1	RN72K1J-000JE,Carbon
R630	435031034R1	RN72K1J-103JE,Carbon
R635~R637	435030004R1	RN72K1J-000JE,Carbon
R641	435034704R1	RN72K1J-470JE,Carbon
R642,R698	435031032R1	RN72K1J-103FE,Carbon
R643~R647	435031034R1	RN72K1J-103JE,Carbon
R649,R651	435031034R1	RN72K1J-103JE,Carbon
R650	435034734R1	RN72K1J-473JE,Carbon
R654,R673	435034724R1	RN72K1J-472JE,Carbon
R655,R656	435031024R1	RN72K1J-102JE,Carbon
R657,R669	435031034R1	RN72K1J-103JE,Carbon
R659,R660	435031034R1	RN72K1J-103JE,Carbon
R662~R667	435031034R1	RN72K1J-103JE,Carbon
R674~R676	435033314R1	RN72K1J-331JE,Carbon
R681	435030004R1	RN72K1J-000JE,Carbon
R682	435031014R1	RN72K1J-101JE,Carbon
R684	435034724R1	RN72K1J-472JE,Carbon
R685	435031034R1	RN72K1J-103JE,Carbon
R687~R692	435031034R1	RN72K1J-103JE,Carbon
R699	435032754R1	RN72K1J-275JE,Carbon
	Sockets	
P603A	25052707R2	NSCT-6P2603
P604B	25051238	NSCT-13P1028
	Plugs	
P602B	25055964R2 or 25056180R2	NPLG-4P917 or NPLG-4P1119
P607B	25055965R2 or 25056181R2	NPLG-5P918 or NPLG-5P1120
	Cushion	
Q605A	28141445	(DAC)
PREAMPLIFIER PC BOARD (NAAF-7718-2B/2D)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q3860~Q3862	22241383R2 or 22240489R1NE	NJM4565M-D or MPC4570G2-T1(MST)
Q4000,Q4800	22241383R2 or 22240489R1NE	NJM4565M-D or MPC4570G2-T1(MST)
Q4100	22240943R2	TC9163AF
Q4101	22241221R2	TC9164AF
Q4200~Q4203	22241640R2	TC94A07F
Q4400,Q4401	22241451R9	NJU7306G
Q4410,Q4411	22241450R2 or 22241567R2	NJM2082M-D or NJM2082M
	Transistors	
Q4420~Q4422	2216756R2	2SA1163-BL
Q4600~Q4607	2215410R2	RN1441
Q4610~Q4617	2215410R2	RN1441
Q4810~Q4815	2215410R2	RN1441
	Diodes	
D4540	224550510R2 or 224490510R2	UDZS5.1B or UDZ5.1B
	Capacitors	
C3600~C3607	374723315	ECQ-B50V-331K,Plastic film
C3610~C3617	393381007	CE04W50V-10M(VX),Elect.
C3680,C3681	332161040R1	CK725F1E-104Z1, Ceramic
C3800~C3802	393384707	CE04W50V-47M(VX),Elect.
C3803~C3806	393381007	CE04W50V-10M(VX),Elect.
C3807	393324717	CE04W6.3V-470M(VX),Elect.
C3820,C3821	393384707	CE04W50V-47M(VX),Elect.

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C3840,C3841	393381007	CE04W50V-10M(VX),Elect.
C3862,C3863	374721224	ECQ-B50V-122J,Plastic film
C3864,C3865	374722724	ECQ-B50V-272J,Plastic film
C4000,C4001	345023304	CC45SL50V-330J,Ceramic
C4010,C4011	393381007	CE04W50V-10M(VX),Elect.
C4100	342101014R1	CC725CH1H-101J1,Ceramic
C4120,C4121	393342217	CE04W16V-220M(VX),Elect.
C4200-C4207	393381007	CE04W50V-10M(VX),Elect.
C4210-C4216	345021002	CC45SL50V-100D,Ceramic
C4217	374721024	ECQ-B50V-102J,Plastic film
C4220-C4227	393380107	CE04W50V-1M(VX),Elect.
C4230-C4237	393384707	CE04W50V-47M(VX),Elect.
C4300,C4302	342101014R1	CC725CH1H-101J1,Ceramic
C4320-C4325	393342217	CE04W16V-220M(VX),Elect.
C4410-C4412	374721015	ECQ-B50V-101K,Plastic film
C4417	374721024	ECQ-B50V-102J,Plastic film
C4420-C4422	393384707	CE04W50V-47M(VX),Elect.
C4430-C4432	374721044	ECQ-V50V-104J,Plastic film
C4440-C4442	374721534	ECQ-B50V-153J,Plastic film
C4500,C4501	342101014R1	CC725CH1H-101J1,Ceramic
C4540	393321017	CE04W6.3V-100M(VX),Elect.
C4600-C4602	393384707	CE04W50V-47M(VX),Elect.
C4607	393384707	CE04W50V-47M(VX),Elect.
C4610-C4617	374721024	ECQ-B50V-102J,Plastic film
C4680,C4681	332161040R1	CK725F1E-104Z1, Ceramic
C4800,C4801	393341007	CE04W16V-10M(VX),Elect.
C4802,C4803	393380227	CE04W50V-2.2M(VX),Elect.
C4804,C4805	374721015	ECQ-B50V-101K,Plastic film
C4806,C4807	393321017	CE04W6.3V-100M(VX),Elect.
C4808,C4809	374722224	ECQ-B50V-222J,Plastic film
C4920,C4921	393342217	CE04W16V-220M(VX),Elect.
	Resistors	
R3600-R3607	435033314R1	RN72K1J-331JE,Carbon
R3610-R3617	435035634R1	RN72K1J-563JE,Carbon
R3620-R3627	435032244R1	RN72K1J-224JE,Carbon
R3800-R3807	435032244R1	RN72K1J-224JE,Carbon
R3820,R3821	435032244R1	RN72K1J-224JE,Carbon
R3840,R3841	435032244R1	RN72K1J-224JE,Carbon
R3862,R3863	435031524R1	RN72K1J-152JE,Carbon
R3864-R3867	435031034R1	RN72K1J-103JE,Carbon
R3868-R3871	435031524R1	RN72K1J-152JE,Carbon
R3872-R3879	435032234R1	RN72K1J-223JE,Carbon
R4000,R4001	435031034R1	RN72K1J-103JE,Carbon
R4010,R4011	435031034R1	RN72K1J-103JE,Carbon
R4020,R4021	435031234R1	RN72K1J-123JE,Carbon
R4022,R4023	435032224R1	RN72K1J-222JE,Carbon
R4030,R4031	435031234R1	RN72K1J-123JE,Carbon
R4032,R4033	435032224R1	RN72K1J-222JE,Carbon
R4040,R4041	435031824R1	RN72K1J-182JE,Carbon
R4042,R4043	435030004R1	RN72K1J-000JE,Carbon
R4060,R4061	435032244R1	RN72K1J-224JE,Carbon
R4100,R4101	435032224R1	RN72K1J-222JE,Carbon
R4103	435032224R1	RN72K1J-222JE,Carbon
R4120,R4121	443522204	RS1/2WBJ-22,Metal oxide
R4200-R4207	435031044R1	RN72K1J-104JE,Carbon
R4210-R4217	435032244R1	RN72K1J-224JE,Carbon
R4227	435032224R1	RN72K1J-222JE,Carbon
R4237	435034714R1	RN72K1J-471JE,Carbon
R4300-R4302	435032224R1	RN72K1J-222JE,Carbon
R4320-R4325	443522204	RS1/2WBJ-22,Metal oxide
R4410-R4412	435034724R1	RN72K1J-472JE,Carbon
R4417,R4427	435034724R1	RN72K1J-472JE,Carbon
R4420-R4422	435034724R1	RN72K1J-472JE,Carbon
R4430-R4432	435032244R1	RN72K1J-224JE,Carbon
R4440-R4442	435034734R1	RN72K1J-473JE,Carbon
R4450-R4452	435033914R1	RN72K1J-391JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R4457	435033914R1	RN72K1J-391JE,Carbon
R4460~R4462	435034724R1	RN72K1J-472JE,Carbon
R4470~R4472	435031054R1	RN72K1J-105JE,Carbon
R4480~R4482	435033914R1	RN72K1J-391JE,Carbon
R4500~R4503	435032224R1	RN72K1J-222JE,Carbon
R4540,R4541	435033324R1	RN72K1J-332JE,Carbon
R4600~R4607	435032714R1	RN72K1J-271JE,Carbon
R4610~R4617	435031014R1	RN72K1J-101JE,Carbon
R4620~R4627	435032234R1	RN72K1J-223JE,Carbon
R4630~R4637	435034704R1	RN72K1J-470JE,Carbon
R4640~R4647	435034704R1	RN72K1J-470JE,Carbon
R4700~R4702	435031044R1	RN72K1J-104JE,Carbon
R4710	435031524R1	RN72K1J-152JE,Carbon
R4711	435033924R1	RN72K1J-392JE,Carbon
R4712	435031024R1	RN72K1J-102JE,Carbon
R4800~R4807	435032234R1	RN72K1J-223JE,Carbon
R4808,R4809	435032224R1	RN72K1J-222JE,Carbon
R4810,R4811	435033304R1	RN72K1J-330JE,Carbon
R4812,R4813	435031034R1	RN72K1J-103JE,Carbon
R4814~R4817	435033304R1	RN72K1J-330JE,Carbon
R4920,R4921	443522204	RS1/2WBJ-22,Metal oxide
	Terminals	
P3600,P4600	25045708	NPJ-4PDGPRW503
P3601,P4601	25045710	NPJ-4PDELNT505
	Sockets	
P4010B	25051235	NSCT-10P1025
P4011B,P4020B	25051240	NSCT-15P1030
	Plugs	
P4012A	25055734	NPLG-3P690
P5003E	25055152	NPLG-8P136
P5004E	25055153	NPLG-9P137
AUDIO TERMINAL PC BOARD (NAAF-7719-2B/2D)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q1001	222780125	78M12HF
Q3000,Q3020	22241383R2 or	NJM4565M-D or
Q3021	22240489R1NE	MPC4570G2-T1(MST)
Q3100	22241639R2	TC9273F-017
	Transistor	
Q1102	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
	Capacitors	
C1001,C1104	332161040R1	CK725F1E-104Z1, Ceramic
C1002,C1007	354741009 or	CE04W16V-10M or
	394641007	CE04W16V-10M(VR),Elect.
C1003,C1006	354780339 or	CE04W50V-3.3M or
C1003 or	394680337	CE04W50V-3.3M(VR),Elect.
C1004,C1005	342101014R1	CC725CH1H-101J1,Ceramic
C3000,C3001	374722215	ECQ-B50V-221K,Plastic film
C3002,C3003	393384707	CE04W50V-47M(VX),Elect.
C3004,C3005	374721524	ECQ-B50V-152J,Plastic film
C3006,C3007	354722219	CE04W6.3V-220M,Elect.
C3008,C3009	374721234	ECQ-B50V-123J,Plastic film
C3010,C3011	374723924	ECQ-B50V-392J,Plastic film
C3020~C3023	374723315	ECQ-B50V-331K,Plastic film
C3026~C3029	393384707	CE04W50V-47M(VX),Elect.
C3080~C3082	332161040R1	CK725F1E-104Z1, Ceramic
C3100	342101014R1	CC725CH1H-101J1,Ceramic
C3120,C3121	393342217	CE04W16V-220M(VX),Elect.
C3122,C3123	393344707	CE04W16V-47M(VX),Elect.
	Resistors	
R1000,R1001	435033314R1	RN72K1J-331JE,Carbon
R1002~R1005	435031044R1	RN72K1J-104JE,Carbon
R1006	435031014R1	RN72K1J-101JE,Carbon
R1010~R1014	435032224R1	RN72K1J-222JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R1015	435030004R1	RN72K1J-000JE, Carbon
R3000, R3001	435033314R1	RN72K1J-331JE, Carbon
R3002, R3003	435035634R1	RN72K1J-563JE, Carbon
R3004, R3005	435034744R1	RN72K1J-474JE, Carbon
R3006, R3007	435035614R1	RN72K1J-561JE, Carbon
R3008, R3009	435032744R1	RN72K1J-274JE, Carbon
R3010, R3011	435032234R1	RN72K1J-223JE, Carbon
R3014, R3015	435034734R1	RN72K1J-473JE, Carbon
R3016, R3017	435031224R1	RN72K1J-122JE, Carbon
R3020-R3022	435033314R1	RN72K1J-331JE, Carbon
R3023-R3027	435033314R1	RN72K1J-331JE, Carbon
R3028-R3031	435032244R1	RN72K1J-224JE, Carbon
R3032, R3033	435032224R1	RN72K1J-222JE, Carbon
R3034, R3035	435032244R1	RN72K1J-224JE, Carbon
R3050, R3051	435033314R1	RN72K1J-331JE, Carbon
R3052, R3053	435035634R1	RN72K1J-563JE, Carbon
R3054, R3055	435032244R1	RN72K1J-224JE, Carbon
R3100-R3102	435032224R1	RN72K1J-222JE, Carbon
R3120, R3121	443522204	RS1/2WBJ-22, Metal oxide
R3122, R3123	435031004R1	RN72K1J-100JE, Carbon
	Terminals	
P3000, P3001	25045582 or 25045491	NPJ-4PDRW393 or NPJ-4PDBL308
	Sockets	
P1010A	25052248,	NSCT-15P2145,
	25051859 or	NSCT-15P1646 or
	25052061	NSCT-15P1848
P3010B	25051232	NSCT-7P1022
P3011B	25051240	NSCT-15P1030
VIDEO TERMINAL PC BOARD (NAAF-7720-2B/2D)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q3200-Q3205	22241383R2 or	NJM4565M-D or
Q3400	22240489R1NE	MPC4570G2-T1(MST)
Q3300	22240829	TC9274N-008
	Transistors	
Q3410-Q3413	2215410R2	RN1441
	Capacitors	
C3200-C3209	374723315	ECQ-B50V-331K, Plastic film
C3212-C3223	393384707	CE04W50V-47M(VX), Elect.
C3250, C3251	393381007	CE04W50V-10M(VX), Elect.
C3252	354741009 or 394641007	CE04W16V-10M or CE04W16V-10M(VR), Elect.
C3280	332161040R1	CK725F1E-104Z1, Ceramic
C3281-C3285	332161040R1	CK725F1E-104Z1, Ceramic
C3300	342101014R1	CC725CH1H-101J1, Ceramic
C3320	393342217	CE04W16V-220M(VX), Elect.
C3321	393342217	CE04W16V-220M(VX), Elect.
C3400-C3403	393384707	CE04W50V-47M(VX), Elect.
C3404, C3405	374721024	ECQ-B50V-102J, Plastic film
	Resistors	
R3200-R3209	435033314R1	RN72K1J-331JE, Carbon
R3212-R3223	435035634R1	RN72K1J-563JE, Carbon
R3224-R3235	435032244R1	RN72K1J-224JE, Carbon
R3236-R3239	435032224R1	RN72K1J-222JE, Carbon
R3240-R3243	435032244R1	RN72K1J-224JE, Carbon
R3250-R3052	435031044R1	RN72K1J-104JE, Carbon
R3253	435031014R1	RN72K1J-101JE, Carbon
R3254	435031044R1	RN72K1J-104JE, Carbon
R3300-R3302	435032224R1	RN72K1J-222JE, Carbon
R3310	435032244R1	RN72K1J-224JE, Carbon
R3311	435031024R1	RN72K1J-102JE, Carbon
R3320, R3321	443522204	RS1/2WBJ-22, Metal oxide
R3400, R3401	435035634R1	RN72K1J-563JE, Carbon
R3402, R3403	435032244R1	RN72K1J-224JE, Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R3404,R3405	435035614R1	RN72K1J-561JE,Carbon
R3406,R3407	435031214R1	RN72K1J-121JE,Carbon
R3408,R3409	435036814R1	RN72K1J-681JE,Carbon
R3410,R3411	435031014R1	RN72K1J-101JE,Carbon
	Terminals	
P3200~P3203	25045582 or	NPJ-4PDRW393 or
	25045491	NPJ-4PDBL308
	Sockets	
P3210B,P3211B	25051232	NSCT-7P1022
	Plugs	
P3220A	25055133	NPLG-3P117
P602A	25055148	NPLG-4P132
POWER AMPLIFIER PC BOARD (NAAF-7706-2D/2E)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q6000~Q6006	2213284 or	2SC1740S-R or
Q6010~Q6016	2213285	2SC1740S-S
Q6020~Q6022	2215995,	KTA1267-GR,
	2212125,	2SA1048-GR,
	2213354 or	2SA933S-R or
	2213355	2SA933S-S
Q6023~Q6026	2211455 or	2SA1015-GR or
	2211454	2SA1015-Y
Q6030~Q6032	2211634 or	2SC2229-Y or
	2211633	2SC2229-O
Q6033~Q6036	2203434 or	KTD2061-Y or
	2203010	2SC5171
Q6040~Q6042	2211354 or	2SA949-Y or
	2211353	2SA949-O
Q6043~Q6046	2203424 or	KTB1369-Y or
	2203000	2SA1930
Q6070~Q6076	2214984 or	2SC2631-R or
	2214985	2SC2631-S
Q6090~Q6092	2203424 or	KTB1369-Y or
	2203000	2SA1930
Q6100~Q6102	2203434 or	KTD2061-Y or
	2203010	2SC5171
Q6703	2215885,	KTA1268-GR,
	2211792,	2SA992-F,
	2211793 or	2SA992-E or
	2215886	KTA1268-BL
	Diodes	
D6000~D6006	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Coils	
L6000~L6002	5597-45502	FR CORE
L6010~L6012	5597-45502	FR CORE
	Capacitors	
C6000~C6006	374721024	ECQ-B50V-102J,Plastic film
C6020~C6022	394500477	CE04W160V-4.7M(VZ),Elect.
C6023~C6026	393384707	CE04W50V-47M(VX),Elect.
C6030~C6036	374734734	ECQ-V100-473J,Plastic film
C6510~C6514	394690477	CE04W100V-4.7M(VR),Elect.
C6520~C6523	394690477	CE04W100V-4.7M(VR),Elect.
C6531,C6532	374721034	ECQ-B50V-103J,Plastic film
C6703	335622230	CK45F50V-223Z,Ceramic
C6901,C6902	3504374	CE69W71V-15000M,Elect.
	Resistors	
R6010~R6012	417344724	R16J-4.7K, Carbon
R6013~R6016	417345624	R16J-5.6K, Carbon
R6020~R6022	417343324	R16J-3.3K, Carbon
R6023~R6026	417343924	R16J-3.9K, Carbon
R6030~R6032	417341824	R16J-1.8K, Carbon
R6033~R6036	417341024	R16J-1K, Carbon

CIRCUIT NO.	PART NO.		DESCRIPTION
	Resistors		
R6040~R6046	5210258		N06HR1KBC, Trimming
R6050~R6056	417342724		R16J-2.7K, Carbon
R6060~R6062	417341214		R16J-120, Carbon
R6063~R6066	417343324		R16J-3.3K, Carbon
R6070~R6072	415476804		R25J-68, NF carbon
R6073~R6076	415471814		R25J-180, NF carbon
R6080~R6082	443521004		RS1/2WBJ-10, Metal oxide
R6083~R6086	415470224		R25J-2.2, NF carbon
R6090~R6092	443521004		RS1/2WBJ-10, Metal oxide
R6093~R6096	415470224		R25J-2.2, NF carbon
R6100~R6106	4000201,		RF-5EGKR22,
	4000132 or		RGC55 0.22 or
	4500245		BPR55FK0.22, Metal plate
R6110~R6116	417341034		R16J-10K, Carbon
R6130~R6136	453630824		RNU1WCJ-8.2, Metal
R6140~R6146	417342234		R16J-22K, Carbon
R6150~R6156	417344724		R16J-4.7K, Carbon
R6160~R6166	417343334		R16J-33K, Carbon
R6190~R6196	417344734		R16J-47K, Carbon
R6200~R6206	417344734		R16J-47K, Carbon
R6210~R6216	417344734		R16J-47K, Carbon
R6230~R6232	415471214		R25J-120, NF carbon
R6240~R6242	415471214		R25J-120, NF carbon
R6250~R6252	415471804		R25J-18, NF carbon
R6260~R6262	415471804		R25J-18, NF carbon
R6270~R6272	415470224		R25J-2.2, NF carbon
R6280~R6282	415470224		R25J-2.2, NF carbon
R6510~R6514	453532294		RNU1/2WCJ-0.22, Metal
R6520~R6523	453532294		RNU1/2WCJ-0.22, Metal
R6701	417342234		R16J-22K, Carbon
R6702	417341034		R16J-10K, Carbon
R6704	417344734		R16J-47K, Carbon
	Sockets		
P5003	2009990666UL		NSAS-12P0929
P5004	2009990745UL		NSAS-16P1040
P6007	2009990759UL		NSAS-6P1070
P6008	2009990760UL		NSAS-8P1071
P6810	2009990668UL		NSAS-6P0931
P6812	2009990669UL		NSAS-6P0932
P6952	2009990671UL		NSAS-6P0934
	Plugs		
P6000~P6006	25056009		NPLG-4P0959
P6010	25056011		NPLG-6P0961
P6011,P6012	25056009		NPLG-4P0959
P6013	25056011		NPLG-6P0961
P6014~P6016	25056009		NPLG-4P0959
P6080~P6086	25055038		NPLG-2P29
P6931	25055701		NPLG-5P657
	Screws		
Q6090B~Q6092B	838430107		3TTB+10S(BC)
Q6100B~Q6102B	838430107		3TTB+10S(BC)
	Heat sinks		
Q6090A~Q6092A	27160486		RAD-155
DRIVER CIRCUIT PC BOARD (NAAF-7707-2D/2E)			
CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors		
Q5003~Q5006	2215896,	*	KTC3200-BL,
Q5013~Q5016	2210755,	*	2SC1775A-E,
	2210756 or	*	2SC1775A-F or
	2211733	*	2SC1845-E
Q5023~Q5026	2215896,		KTC3200-BL,
	2210755,		2SC1775A-E,
	2210756 or		2SC1775A-F or
	2211733		2SC1845-E
Q5033~Q5036	2215844,		KTA1024-Y,

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q5043-Q5046	2211353,	2SA949-O,
Q5053-Q5056	2211354 or	2SA949-Y or
	2215843	KTA1024-O
Q5083-Q5086	2215854,	KTC3206-Y,
	2211633,	2SC2229-O,
	2211634 or	2SC2229-Y or
	2215853	KTC3206-O
	Diodes	
D5003-D5006	224470562	MTZJ5.6B,Zener
	Capacitors	
C5003-C5006	393381007	CE04W50V-10M(VX),Elect.
C5013-C5016	374722215	ECQ-B50V-221K,Plastic film
C5043-C5046	393341017	CE04W16V-100M(VX),Elect.
C5053-C5056	393381007	CE04W50V-10M(VX),Elect.
C5073-C5076	394691007	CE04W100V-10M(VR),Elect.
C5083-C5086	394672207	CE04W63V-22M(VR),Elect.
C5093-C5096	393384707	CE04W50V-47M(VX),Elect.
C5103-C5106	374721015	ECQ-B50V-101K,Plastic film
C5113-C5116	345020502	CC45SL50V-050D,Ceramic
C5123-C5126	394694707	CE04W100V-47M(VR),Elect.
C5133-C5136	394694707	CE04W100V-47M(VR),Elect.
	Resistors	
R5003-R5006	417341024	R16J-1K, Carbon
R5013-R5016	417345634	R16J-56K, Carbon
R5023-R5026	417343314	R16J-330, Carbon
R5033-R5036	417341214	R16J-120, Carbon
R5043-R5046	417341214	R16J-120, Carbon
R5053-R5056	417345624	R16J-5.6K, Carbon
R5063-R5066	417342724	R16J-2.7K, Carbon
R5073-R5076	417341044	R16J-100K, Carbon
R5093-R5096	417341824	R16J-1.8K, Carbon
R5113-R5116	417342224	R16J-2.2K, Carbon
R5123-R5126	417342224	R16J-2.2K, Carbon
R5133-R5136	415478214	R25J-820, NF carbon
R5143-R5146	415478214	R25J-820, NF carbon
R5153-R5156	443521034	RS1/2WBJ-10K,Metal oxide
R5163-R5166	415471024	R25J-1.0K, NF carbon
R5173-R5176	415478214	R25J-820, NF carbon
R5183-R5186	415473304	R25J-33, NF carbon
R5213-R5216	417341834	R16J-18K, Carbon
R5223-R5226	417341834	R16J-18K, Carbon
R5233-R5236	415471504	R25J-15, NF carbon
R5243-R5246	415471504	R25J-15, NF carbon
R5253-R5256	417345634	R16J-56K, Carbon
R5283-R5286	443521034	RS1/2WBJ-10K,Metal oxide
R5293-R5296	417341044	R16J-100K, Carbon
R5303-R5306	415471014	R25J-100, NF carbon
R5333-R5336	415471014	R25J-100, NF carbon
	Sockets	
P6003A-P6006A	25052287	NSCT-4P2184
P6013A	25052289	NSCT-6P2186
P6014A-P6016A	25052287	NSCT-4P2184
CONSTANT VOLTAGE PC BOARD (NAPS-7708-2D/2E)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q9401	222780185JRC	NJM78M18FA
Q9411	222790185JRC	NJM79M18FA
Q9421	222780053JRC	NJM78L05A
Q9431	222780054JRC	NJM7805FA
Q9441	222790054JRC	NJM7905FA
	Transistors	
Q6901	2215864,	KTC3199-GR,
	2212115,	2SC2458-GR,
	2213284 or	2SC1740S-R or
	2213285	2SC1740S-S

CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors		
Q9422	2202314 or		2SA1726-Y or
	2202315		2SA1726-P
Q9501	2211644		2SA965-Y
	Diodes		
D9501,D9502A	22380285F,		RS403M,
	22380022F or		RBV402 or
	22380271F		D3SBA20
D9506,D9507	22380260,		RL1N4003,
	22380032 or		1SR139-100 or
	22380035		GP104003E
D9508	224472704		MTZJ27D,Zener
	Capacitors		
C9401,C9402	394561007		CE04W35V-10M(VZ),Elect.
C9411,C9412	394561007		CE04W35V-10M(VZ),Elect.
C9421,C9422	394561007		CE04W35V-10M(VZ),Elect.
C9431,C9432	394561007		CE04W35V-10M(VZ),Elect.
C9441,C9442	394561007		CE04W35V-10M(VZ),Elect.
C9501-C9504	374723344		ECQ-V50V-334J,Plastic film
C9505	394662227S		CE04W35V-2200M(VR),Elect.
C9506	394661027S		CE04W35V-1000M(VR),Elect.
C9507	394682217		CE04W50V-220M(VR),Elect.
C9508	394646827S		CE04W16V-6800M(VR),Elect.
C9509	394651027S		CE04W25V-1000M(VR),Elect.
C9510	394672217		CE04W63V-220M(VR),Elect.
C9511	335621030		CK45F50V-103Z,Ceramic
C9512	335622230		CK45F50V-223Z,Ceramic
C9513	374723344		ECQ-V50V-334J,Plastic film
C9521-C9523	374722234		ECQ-B50V-223J,Plastic film
	Resistors		
R6901,R6902	417344724		R16J-4.7K, Carbon
R9403	453530224		RNU1/2WCJ-2.2, Metal
R9413	453530824		RNU1/2WCJ-8.2, Metal
R9421-R9424	441620824F		RS1WBJ-8.2,Metal oxide
R9425	415473304		R25J-33, NF carbon
R9431,R9433	441621004F		RS1WBJ-10,Metal oxide
R9442,R9444	441622204F		RS1WBJ-22,Metal oxide
R9506	415472204		R25J-22, NF carbon
R9507,R9508	417341534		R16J-15K, Carbon
R9509	417343334		R16J-33K, Carbon
R9510	415470224		R25J-2.2, NF carbon
R9521	453530334		RNU1/2WCJ-3.3, Metal
	Fuse holders		
F9501A,F9501B	25052133	!	NSCT-1P2031
F9502A,F9502B	25052133	!	NSCT-1P2031
F9503A,F9503B	25052133	!	NSCT-1P2031
F9504A,F9504B	25052133	!	NSCT-1P2031
	Sockets		
JL6953A	25051108		NSCT-4P895
JL7201B	25050281		NSCT-4P109
JL9503B	25050270		NSCT-6P98
JL9504A	25051088		NSCT-4P875
	Plugs		
P9501	25055138		NPLG-8P122
P9502A	25055156		NPLG-12P140
	Labels		
F9501C	29361747		T2.5AL250V <A>
F9503C	29361769		T1.6AL250V <A>
THERMAL DETECTOR PC BOARD (NAETC-7714-2E)			
Australian model only			
CIRCUIT NO.	PART NO.		DESCRIPTION
	Thermistors		
R5652	4000153		PTH9M04BF222TS2F333
R5654	4000151		PTH9M04BD222TS2F333
	Socket		
JL9504B	25051088		NSCT-4P875

F/C DRIVER CIRCUIT PC BOARD (NAAF-7690-2G/2H)			
CIRCUIT NO.	PART NO.		DESCRIPTION
	Transistors		
Q5000~Q5002	2215896,	*	KTC3200-BL,
Q5010~Q5012	2210755,	*	2SC1775A-E,
	2210756 or	*	2SC1775A-F or
	2211733	*	2SC1845-E
Q5020~Q5022	2215896,		KTC3200-BL,
	2210755,		2SC1775A-E,
	2210756 or		2SC1775A-F or
	2211733		2SC1845-E
Q5030~Q5032	2215844,		KTA1024-Y,
Q5040~Q5042	2211353,		2SA949-O,
	2211354 or		2SA949-Y or
	2215843		KTA1024-O
Q5050~Q5052	2202094 or		2SA1360-Y or
	2202093		2SA1360-O
Q5080~Q5082	2202104 or		2SC3423-Y or
	2202103		2SC3423-O
	Diodes		
D5000~D5002	224470562		MTZJ5.6B,Zener
	Capacitors		
C5000~C5002	393362207		CE04W35V-22M(VX),Elect.
C5010,C5011	374721015		ECQ-B50V-101K,Plastic film
C5012	374722215		ECQ-B50V-221K,Plastic film
C5040~C5042	393342217		CE04W16V-220M(VX),Elect.
C5050~C5052	393381007		CE04W50V-10M(VX),Elect.
C5070~C5072	394691007		CE04W100V-10M(VR),Elect.
C5080~C5082	394672207		CE04W63V-22M(VR),Elect.
C5090~C5092	393384707		CE04W50V-47M(VX),Elect.
C5100,C5102	374721015		ECQ-B50V-101K,Plastic film
C5110~C5112	345020502		CC45SL50V-050D,Ceramic
C5120~C5122	394691017S		CE04W100V-100M(VR),Elect.
C5130~C5132	394691017S		CE04W100V-100M(VR),Elect.
	Resistors		
R5000~R5002	417341024		R16J-1K, Carbon
R5010~R5012	417345634		R16J-56K, Carbon
R5020~R5022	417343314		R16J-330, Carbon
R5030~R5032	417343314		R16J-330, Carbon
R5040~R5042	417343314		R16J-330, Carbon
R5050~R5052	417345624		R16J-5.6K, Carbon
R5060~R5062	417342724		R16J-2.7K, Carbon
R5070~R5072	417341044		R16J-100K, Carbon
R5090~R5092	417341824		R16J-1.8K, Carbon
R5110~R5112	417342224		R16J-2.2K, Carbon
R5120~R5122	417342224		R16J-2.2K, Carbon
R5130~R5132	415478214		R25J-820, NF carbon
R5140~R5142	415478214		R25J-820, NF carbon
R5150~R5152	443521034		RS1/2WBJ-10K,Metal oxide
R5160~R5162	415471024		R25J-1.0K, NF carbon
R5170~R5172	415478214		R25J-820, NF carbon
R5180~R5182	415473304		R25J-33, NF carbon
R5210~R5212	417341834		R16J-18K, Carbon
R5220~R5222	417341834		R16J-18K, Carbon
R5230~R5232	415471504		R25J-15, NF carbon
R5240~R5242	415471504		R25J-15, NF carbon
R5250~R5252	417345634		R16J-56K, Carbon
R5280~R5282	443521034		RS1/2WBJ-10K,Metal oxide
R5290~R5292	417341044		R16J-100K, Carbon
R5300~R5302	415476804		R25J-68, NF carbon
R5330~R5332	415476804		R25J-68, NF carbon
	Sockets		
P6000A~P6002A	25052287		NSCT-4P2184
P6010A	25052289		NSCT-6P2186
P6011A,P6012A	25052287		NSCT-4P2184
	Heat sinks		
Q5050A~Q5052A	27160517		RAD-177

PRIMARY CIRCUIT PC BOARD (NAPS-7691-2G/2H)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q921	2215864,	KTC3199-GR,
	2212115,	2SC2458-GR,
	2213284 or	2SC1740S-R or
	2213285	2SC1740S-S
	Diodes	
D921~D924	22380260,	RL1N4003,
	22380032 or	1SR139-100 or
	22380035	GP104003E
D925	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Power transformer	
T902	2301716	! NPT-1483D <D>
T902	2301662	! NPT-1456P <A>
	Capacitors	
C901	3500196S	! RE275V-103M,IS
C921,C923	335622230	CK45F50V-223Z,Ceramic
C922	394662217	CE04W35V-220M(VR),Elect.
	Resistors	
R922,R923	417344724	R16J-4.7K, Carbon
R924	443528204	RS1/2WBJ-82,Metal oxide
R926	417344724	R16J-4.7K, Carbon
	Fuseholders	
F901A,F901B	250113	! SN5051 <D>
F902A,F902B	25052133	! NSCT-1P2031 <A>
F903A,F903B	25052133	! NSCT-1P2031
	AC outlet	
P902	25051126	! NSCT-4P913 <D>
P902	25052115	! NSCT-2P2013 <A>
	Relay	
RL901	25065584 or	! NRL-1P10A-DC12-140 or
	25065516	! NRL-1P10A-DC12-097
	Socket	
JL931B	25050267	NSCT-3P95
	Plug	
P911	25055675 or	NPLG-2P631 or
	25056028	NPLG-2P0978
	Fuse labels	
F901C	29362325	12A/250V <D>
F902C	29361938	T5AL250V <A>
F903C	29360462	5A/125V <D>
	Tape	
RL901A	29110083	Cloth
BIAS SEWLECTOR PC BOARD (NAPS-7692-2G/2H)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Diodes	
D6901,D6902	22380260,	RL1N4003,
	22380032 or	1SR139-100 or
	22380035	GP104003E
D6903,D6904	22380309 or	D15XB60 or
	22380044	RBV-1506
D6906	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Capacitors	
C6903	374722234	ECQ-B50V-223J,Plastic film
C6908~C6911	374733344	ECQ-V100-334J,Plastic film
C6912	335621030	CK45F50V-103Z,Ceramic
C6915,C6916	374733344	ECQ-V100-334J,Plastic film
	Fuseholes	
F6901A,F6901B	250113	! SN5051 <D>
F6901A,F6901B	25052133	! NSCT-1P2031 <A>
F6902A,F6902B	250113	! SN5051 <D>
F6902A,F6902B	25052133	! NSCT-1P2031 <A>

CIRCUIT NO.	PART NO.	DESCRIPTION
	Relays	
RL6901,RL6902	25065584 or	NRL-1P10A-DC12-140 or
	25065516	NRL-1P10A-DC12-097
	Sockets	
JL6953B	25050268	NSCT-4P96
	Plugs	
P6951	25055172	NPLG-9P156
P6952A	25055168	NPLG-5P152
P9505A	25055600	NPLG-2P568
	Fuse label	
F6902C	29362325	12A/250V <D>
F6902C	29362801	T10AL250V <A>
	Screws	
D6903B,D6904B	82143010	3P+10FN(BC)
	Radiator	
D6903A	27160499	RAD-164
	Washer	
D6903E,D6904E	870186	SW-3
	Spring washer	
D6903C,D6904C	871430	SW-3(BC)(SP-WASHER)
	Tape	
D6903D	29110083	Cloth
RL6901A,RL6902	29110083	Cloth
SPEAKER TERMINAL PC BOARD (NAETC-7694-2G/2H)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Diode	
D6600	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Coils	
L6800-L6802	231176S	S-1.3C <A>
	Capacitors	
C6600	335621030	CK45F50V-103Z,Ceramic
C6830-C6832	374731034	ECQ-V100-103J,Plastic film
C6840-C6842	374731024	ECQ-B100V-102J,Plastic film <A>
C6850-C6852	335321025	CK45B50V-102K,Ceramic <A>
	Resistors	
R6800-R6802	417342204	R16J-22, Carbon <A>
R6810-R6812	417342204	R16J-22, Carbon <A>
R6830-R6832	453630824	RNU1WCJ-8.2, Metal
	Terminals	
P6800	25060357	NTM-6PDMN288 <D>
	25060358	NTM-6PDMN289 <A>
	Relays	
RL6600,RL6602	25065563,	NRL-2P5A-DC24-129,
	25065517,	NRL-2P5A-DC24-098,
	25065586 or	NRL-2P5A-DC24-142 or
	25065618	NRL-2P5A-DC24-158
	Plugs	
P6007A	25055167	NPLG-4P151
P6810D	25055166	NPLG-3P150
	Tapes	
RL6600A	29110083	Cloth
RL6602A	29110083	Cloth
SURROUND SPEAKER TERMINAL PC BOARD (NAETC-7695-2G/2H)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Diodes	
D6603,D6605	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
	Coils	
L6803-L6806	231176S	S-1.3C <A>
	Capacitors	
C6603,C6605	335621030	CK45F50V-103Z,Ceramic
C6833-C6836	374731034	ECQ-V100-103J,Plastic film

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C6843~C6846	374731024	ECQ-B100V-102J,Plastic film <A>
C6853~C6856	335321025	CK45B50V-102K,Ceramic <A>
	Resistors	
R6803~R6806	417342204	R16J-22, Carbon <A>
R6813~R6816	417342204	R16J-22, Carbon <A>
R6833~R6836	453630824	RNU1WCJ-8.2, Metal
	Terminal	
P6802	25060353	NTM-8PDMN284 <D>
	25060354	NTM-8PDMN285 <A>
	Relays	
RL6603,RL6605	25065563,	NRL-2P5A-DC24-129,
	25065517,	NRL-2P5A-DC24-098,
	25065586 or	NRL-2P5A-DC24-142 or
	25065618	NRL-2P5A-DC24-158
	Plugs	
P6008A	25055169	NPLG-6P153
P6812E	25055168	NPLG-5P152
P6832	25055734	NPLG-3P690
	Tape	
RL6603A	29110083	Cloth
RL6605A	29110083	Cloth
FAN DRIVE CIRCUIT PC BOARD (NAETC-7696-2G/2H)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q5601	2212445	2SK365-GR
Q5602,Q5603	2215864,	KTC3199-GR,
Q5607	2212115,	2SC2458-GR,
Q6701,Q6702	2213284 or	2SC1740S-R or
	2213285	2SC1740S-S
Q5604,Q5605	2215820,	KRC104M,
Q5608,Q5609	221282 or	DTC144ES or
	2213560	RN1204
Q5606	2203595,	KTC2026-GR,
	2202705,	2SD2394-E,
	2202706 or	2SD2394-F or
	2203594	KTC2026-Y
Q6704	2215995,	KTA1267-GR,
	2212125,	2SA1048-GR,
	2213354 or	2SA933S-R or
	2213355	2SA933S-S
	Diodes	
D5601	223163,	1SS133,
D5604~D5607	223205 or	1SS270A or
D5609,D5610	223222	WG713A
D5602,D5603	22380260,	RL1N4003,
	22380032 or	1SR139-100 or
	22380035	GP104003E
D5611	224471303	MTZJ13C,Zener
D6701,D6702	223163,	1SS133,
	223205 or	1SS270A or
	223222	WG713A
D6703,D6704	224470512	MTZJ5.1B,Zener
	Capacitors	
C5602~C5604	394661017	CE04W35V-100M(VR),Elect.
C6701,C6706	394621017	CE04W6.3V-100M(VR),Elect.
C6704	394680107	CE04W50V-1M(VR),Elect.
C6705	335622230	CK45F50V-223Z,Ceramic
	Resistors	
R5601	417343334	R16J-33K, Carbon
R5602	417341054	R16J-1M, Carbon
R5603	417341044	R16J-100K, Carbon
R5604,R5606	417341034	R16J-10K, Carbon
R5605	417341014	R16J-100, Carbon
R5607,R5614	417342724	R16J-2.7K, Carbon
R5608,R5609	417341034	R16J-10K, Carbon

CIRCUIT NO.	PART NO.		DESCRIPTION
	Resistors		
R5612	415471014		R25J-100, NF carbon
R5613	453530474		RNU1/2WCJ-4.7, Metal
R5615	417341034		R16J-10K, Carbon
R5616	441721224F		RS2WBJ-1.2K, Metal oxide
R6705, R6710	417341834		R16J-18K, Carbon
R6706	417342234		R16J-22K, Carbon
R6707	417341034		R16J-10K, Carbon
R6708	417343334		R16J-33K, Carbon
R6709	417345624		R16J-5.6K, Carbon
	Sockets		
JL6933A	25051088		NSCT-4P875
JL9503A	25051110		NSCT-6P897
P6931A	25051230		NSCT-5P1020
P7701B	25052201,		NSCT-5P2098,
	25051271,		NSCT-5P1060,
	25051812 or		NSCT-5P1599 or
	25052014		NSCT-5P1801
	Plug		
P6401	25055042		NPLG-3P32
THERMAL DETECTOR PC BOARD (NAETC-7697-2H)			
Australian model only			
CIRCUIT NO.	PART NO.		DESCRIPTION
	Thermistors		
R5651	4000153		PTH9M04BF222TS2F333
R5653	4000151		PTH9M04BD222TS2F333
	Sockets		
JL6933B	25051088		NSCT-4P875
AC INLET PC BOARD (NAETC-7700-2G/2H)			
CIRCUIT NO.	PART NO.		DESCRIPTION
	AC inlet		
P901B	25055960	!	NPLG-2P913
MAIN CONNECTOR PC BOARD (NAAR-8078-1E/1F)			
CIRCUIT NO.	PART NO.		DESCRIPTION
	ICs		
Q2910, Q2913	22241383R2		NJM4565M-D
Q2923	222780155JRC		78M15HF(NJM78M15FA)
Q2924	222790155JRC		79M15HF(NJM79M15FA)
Q2925	222780093JRCT		78L09(NJM78L09A)
Q2934	222780565JRC		78M56(NJM78M56FA)
	Transistors		
Q2901, Q2903	2216175R2 or		KTC3875-GR or
Q2905, Q2907	2213145R2		2SC2712-GR
Q2902, Q2904	2216220R2 or		KRA102S or
Q2906, Q2908	2214530R2		RN2402
Q2909, Q2932	2216175R2 or		KTC3875-GR or
	2213145R2		2SC2712-GR
Q2920	2216400R2		2SB1132
Q2931	2212855 or		2SB1068-U or
Q2931 or	2212853		2SB1068-K
Q2933, Q2935	2216190R2 or		KRC102S or
	2214470R2		RN1402
	Diodes		
D2901-D2903	223234R2 or		1SS352 or
D2920	223269R2		1SS355
D2922, D2923	223234R2 or		1SS352 or
	223269R2		1SS355
D2931, D2932	22380260 or		RL1N4003 or
	22380035		GP104003E
D2933	224490560R2		UDZ5.6B
	Capacitors		
C2901, C2908	332161040R1		CK725F1E-104Z1, Ceramic
C2902-C2905	354741009		CE04W16V-10M, Elect.
C2906	332101025R1		CK725B1H-102K1, Ceramic

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C2910	332161040R1	CK725F1E-104Z1, Ceramic
C2916	374721224	ECQ-B50V-122J, Plastic film
C2917, C2918	354741009	CE04W16V-10M, Elect.
C2923-C2926	354761009	CE04W35V-10M, Elect.
C2927, C2928	354761009	CE04W35V-10M, Elect.
C2931	394641027	CE04W16V-1000M(VR), Elect.
C2932	354741009	CE04W16V-10M, Elect.
	Resistors	
R2901-R2903	435031024R1	RN72K1J-102JE, Carbon
R2905, R2906	435031034R1	RN72K1J-103JE, Carbon
R2908	435031524R1	RN72K1J-152JE, Carbon
R2912	453530474	RNU1/2WCJ-4.7, Metal
R2913	453530224	RNU1/2WCJ-2.2, Metal
R2914-R2916	435032234R1	RN72K1J-223JE, Carbon
R2917, R2918	435031524R1	RN72K1J-152JE, Carbon
R2919	435032234R1	RN72K1J-223JE, Carbon
R2920, R2924	435031034R1	RN72K1J-103JE, Carbon
R2925, R2926	435031034R1	RN72K1J-103JE, Carbon
R2931	453530104	RNU1/2WCJ-1, Metal
R2932, R2935	435033324R1	RN72K1J-332JE, Carbon
R2933	443522204	RS1/2WBJ-22, Metal oxide
R2934	435032234R1	RN72K1J-223JE, Carbon
	Relays	
RL2901	25065563 or	NRL-2P5A-DC24-129 or
	25065618	NRL-2P5A-DC24-158
	Sockets	
P2901A	25051826	NSCT-19P1613
P4012A	25051255	NSCT-3P1045
P7201B	25051838	NSCT-31P1625
P9502B	2009990748UL	NSAS-24P1045
	Plugs	
P2005A	25055709	NPLG-13P665
P2006A	25055806	NPLG-17P762
P2505A	25055808	NPLG-19P764
P2705A	25055804	NPLG-4P760
P2855A	25055704	NPLG-8P660
P3010A	25055703	NPLG-7P659
P3011A	25055711	NPLG-15P667
P3210A, P3211A	25055703	NPLG-7P659
P4010A	25055706	NPLG-10P662
P4011A, P4020A	25055711	NPLG-15P667
P604A	25055709	NPLG-13P665
P7002A, P7004A	25055805	NPLG-16P761
P7003A	25055712	NPLG-20P668
P800A	25055712	NPLG-20P668
	Heat sink	
Q2934A	27160472	RAD-141
	Screw	
Q2934B	82143010	3P+10FN(BC)
COMPONENT VIDEO PC BOARD (NAVD-8079-1E/1F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q2001	22241884R2	LC74761M-9848
Q2010	22241619R2	TC9273F-004
Q2101	222740515R2	74HC4051AF
Q2102, Q2105	22241443R2	TK15420M
Q2201	222740515R2	74HC4051AF
	Transistors	
Q2002-Q2005	2216220R2 or	KRA102S or
	2214530R2	RN2402
Q2006, Q2008	2216175R2 or	KTC3875-GR or
Q2103, Q2106	2213145R2	2SC2712-GR
Q2007, Q2012	2216210R2 or	KRC104S or
	2214490R2	RN1404
Q2009	2216185R2 or	KTA1504-GR or

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q2104,Q2107	2214375R2	2SA1162-GR
Q2011	2214550R2	RN2404
Q2301-Q2309	2216031R2 or	RN1444-A or
Q2314,Q2315	2216032R2	RN1444-B
	Diodes	
D2001-D2003	223234R2 or	1SS352 or
D2006,D2007	223269R2	1SS355
D2103,D2104	223234R2 or	1SS352 or
D2106,D2107	223269R2	1SS355
	Oscillators	
X2001	3010363	HC-49/U0314.318M
X2002	3010364	HC-49/U0317.734M <A>
	Coils	
L2001	231292J056R2	NCH-1572
L2002	231237K022R2 or	NCH-1471 or
	233533K022R2	NCH-1587-022K
	Capacitors	
C2001	342101002R1	CC725CH1H-100D1,Ceramic
C2002	342101804R1	CC725CH1H-180J1,Ceramic
C2003	342103304R1	CC725CH1H-330J1,Ceramic <A>
C2004	342100802R1	CC725CH1H-080D1,Ceramic <A>
C2005-C2008	342104704R1	CC725CH1H-470J1,Ceramic
C2009	354780109	CE04W50V-1M,Elect.
C2010	354721019	CE04W6.3V-100M,Elect.
C2011	375524744	MMT50V-474J,Plastic film
C2012	354784799	CE04W50V-0.47M,Elect.
C2013,C2014	342102704R1	CC725CH1H-270J1,Ceramic
C2015	374722234	ECQ-B50V-223J,Plastic film
C2016	354780109	CE04W50V-1M,Elect.
C2017	374726824	ECQ-B50V-682J,Plastic film
C2018	354783399	CE04W50V-0.33M,Elect.
C2019	332101225R1	CK725B1H-122K1,Ceramic
C2020	332161040R1	CK725F1E-104Z1, Ceramic
C2021,C2022	354721019	CE04W6.3V-100M,Elect.
C2023	342104704R1	CC725CH1H-470J1,Ceramic
C2024,C2026	354741009	CE04W16V-10M,Elect.
C2025,C2027	332161040R1	CK725F1E-104Z1, Ceramic
C2028	354741009	CE04W16V-10M,Elect.
C2029	342101014R1	CC725CH1H-101J1,Ceramic
C2044-C2046	332161040R1	CK725F1E-104Z1, Ceramic
C2047	354721019	CE04W6.3V-100M,Elect.
C2101-C2103	332161040R1	CK725F1E-104Z1, Ceramic
C2104,C2106	354721019	CE04W6.3V-100M,Elect.
C2105	332161040R1	CK725F1E-104Z1, Ceramic
C2201-C2203	332161040R1	CK725F1E-104Z1, Ceramic
C2204	354721019	CE04W6.3V-100M,Elect.
C2205	332161040R1	CK725F1E-104Z1, Ceramic
C2206,C2221	354721019	CE04W6.3V-100M,Elect.
C2301-C2304	354721019	CE04W6.3V-100M,Elect.
C2306	354721019	CE04W6.3V-100M,Elect.
C2307-C2309	332161040R1	CK725F1E-104Z1, Ceramic
C2324-C2326	332161040R1	CK725F1E-104Z1, Ceramic
C2338	354724719	CE04W6.3V-470M,Elect.
	Resistors	
R2001-R2004	435031044R1	RN72K1J-104JE,Carbon
R2005-R2008	435032224R1	RN72K1J-222JE,Carbon
R2009,R2020	435034734R1	RN72K1J-473JE,Carbon
R2010	435032724R1	RN72K1J-272JE,Carbon
R2011,R2018	435031024R1	RN72K1J-102JE,Carbon
R2012	435031214R1	RN72K1J-121JE,Carbon
R2013,R2017	435036824R1	RN72K1J-682JE,Carbon
R2014	435031524R1	RN72K1J-152JE,Carbon
R2015	435038244R1	RN72K1J-824JE,Carbon
R2016	435032214R1	RN72K1J-221JE,Carbon
R2019	435033324R1	RN72K1J-332JE,Carbon
R2021	435031034R1	RN72K1J-103JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R2022~R2025	435031044R1	RN72K1J-104JE, Carbon
R2026, R2045	435033334R1	RN72K1J-333JE, Carbon
R2027~R2037	435031044R1	RN72K1J-104JE, Carbon
R2039	435031044R1	RN72K1J-104JE, Carbon
R2040, R2044	435032224R1	RN72K1J-222JE, Carbon
R2041, R2042	435031024R1	RN72K1J-102JE, Carbon
R2043	435032204R1	RN72K1J-220JE, Carbon
R2046, R2051	435036804R1	RN72K1J-680JE, Carbon
R2047~R2050	435031044R1	RN72K1J-104JE, Carbon
R2052	435032224R1	RN72K1J-222JE, Carbon
R2053, R2054	435031044R1	RN72K1J-104JE, Carbon
R2101, R2121	435031014R1	RN72K1J-101JE, Carbon
R2102	435031034R1	RN72K1J-103JE, Carbon
R2103, R2104	435031824R1	RN72K1J-182JE, Carbon
R2105, R2205	435031834R1	RN72K1J-183JE, Carbon
R2106, R2126	435032214R1	RN72K1J-221JE, Carbon
R2108, R2109	435031024R1	RN72K1J-102JE, Carbon
R2110, R2111	435030474R1	RN72K1J-047JE, Carbon
R2122	435032234R1	RN72K1J-223JE, Carbon
R2123	435031824R1	RN72K1J-182JE, Carbon
R2124	435038234R1	RN72K1J-823JE, Carbon
R2128, R2129	435031024R1	RN72K1J-102JE, Carbon
R2130, R2131	435030474R1	RN72K1J-047JE, Carbon
R2201	435031014R1	RN72K1J-101JE, Carbon
R2202, R2222	435031034R1	RN72K1J-103JE, Carbon
R2203, R2204	435031824R1	RN72K1J-182JE, Carbon
R2206, R2226	435032214R1	RN72K1J-221JE, Carbon
R2220, R2221	435031514R1	RN72K1J-151JE, Carbon
R2223	435031824R1	RN72K1J-182JE, Carbon
R2224	435032224R1	RN72K1J-222JE, Carbon
R2225	435038224R1	RN72K1J-822JE, Carbon
R2301, R2303	435037504R1	RN72K1J-750JE, Carbon
R2302, R2304	435031044R1	RN72K1J-104JE, Carbon
R2305, R2306	435037504R1	RN72K1J-750JE, Carbon
R2307, R2310	435031044R1	RN72K1J-104JE, Carbon
R2308, R2309	435037504R1	RN72K1J-750JE, Carbon
R2311~R2313	435037504R1	RN72K1J-750JE, Carbon
R2314	435031024R1	RN72K1J-102JE, Carbon
	Terminals	
P2001~P2003	25045363	NPJ-3PDYE208
	Sockets	
P2005B	25051238	NSCT-13P1028
P2006B	25051528	NSCT-17P1315
P2007B	25051530	NSCT-19P1317
CONTROL TERMINAL PC BOARD (NAETC-8083-1E/1F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q201	22241537R2	MPD4721GS
Q233	222780565	78M56
	Photo coupler	
Q211	24120080	PC817X
	Transistors	
Q221, Q223	2216190R2 or	KRC102S or
Q2911	2214470R2	RN1402
Q222, Q224	2212855 or	2SB1068-U or
Q2912	2212853	2SB1068-K
Q231, Q232	2213145R2 or	2SC2712-GR or
	2216175R2	KTC3875-GR
Q2921, Q2922	2216190R2 or	KRC102S or
	2214470R2	RN1402
	Diodes	
D201~D203	223234R2 or	1SS352 or
	223269R2	1SS355
	Coils	
L201	230948R2	BLM21A102F

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C201-C204	354780109	CE04W50V-1M,Elect.
C205,C206	332161040R1	CK725F1E-104Z1, Ceramic
C207	354721019	CE04W6.3V-100M,Elect.
C221-C223	354744709	CE04W16V-47M,Elect.
C225,C233	332161040R1	CK725F1E-104Z1, Ceramic
C231	354741009	CE04W16V-10M,Elect.
C232	354751029S	CE04W25V-1000M,Elect.
C2921	354721019	CE04W6.3V-100M,Elect.
C2922	374722234	ECQ-B50V-223J,Plastic film
	Resistors	
R201,R203	435033314R1	RN72K1J-331JE,Carbon
R205,R208	435033314R1	RN72K1J-331JE,Carbon
R211	435031014R1	RN72K1J-101JE,Carbon
R212	435032214R1	RN72K1J-221JE,Carbon
R221,R223	435032224R1	RN72K1J-222JE,Carbon
R222,R224	435031024R1	RN72K1J-102JE,Carbon
R227,R228	4000195	RXE030,Thermistor
R231,R232	435031024R1	RN72K1J-102JE,Carbon
R233	453532294	RNU1/2WCJ-0.22, Metal
R234	441721514F	RS2WBJ-150,Metal oxide
R2909	4000195	RXE030,Thermistor
R2910	435032224R1	RN72K1J-222JE,Carbon
R2911	435031024R1	RN72K1J-102JE,Carbon
R2921	435033324R1	RN72K1J-332JE,Carbon
R2922	435031034R1	RN72K1J-103JE,Carbon
R2923	435031034R1	RN72K1J-103JE,Carbon
	Terminals	
P201	25052379	NSCT-9P2277
P202	25045647	HSJ1002-01-1020
P203	25045711	HSJ-1003-01-010
P204	25045647	HSJ1002-01-1020
	Sockets	
JL931A	25051107	NSCT-3P894
P201	25052379	NSCT-9P2277
P2901B	25051826	NSCT-19P1613
P6830B,P6832B	25051255	NSCT-3P1045
	Plugs	
P2007A	25055808	NPLG-19P764
P2507A	25055712	NPLG-20P668
	Radiator	
Q233A	27160145	RAD-51
	Screw	
Q233B	82143010	3P+10FN(BC)
THERMAL DETECTOR PC BOARD (NAETC-8085-1E)		
120V model only		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Thermistors	
R5651	4000217	PTFL04BF471Q2N34B0 (80)
R5653	4000220	PTFL04BC471Q2N34B0 (110)
	Plug	
P6933B	25055625	NPLG-4P587
	Shield case	
P5651	27225154	(THERMISTOR)
THERMAL DETECTOR PC BOARD (NAETC-8086-1E)		
120V model only		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Thermistors	
R5652	4000217	PTFL04BF471Q2N34B0 (80)
R5654	4000220	PTFL04BC471Q2N34B0 (110)
	Shield case	
P5652	27225154	(THERMISTOR)

S VIDEO PC BOARD (NAVD-8069-1D/1F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q2501	222740515R2	74HC4051AF
Q2502	22241443R2	TK15420M
Q2511	222740515R2	74HC4051AF
Q2601,Q2611	222740515R2	74HC4051AF
Q2602,Q2701	22241443R2	TK15420M
Q2751	22241850R2	TC90A69F
Q2752	22241858R2	MM1093NF
Q2753	22241998R2	MM1093PF <A>
	Transistors	
Q2503,Q2505	2216175R2 or	KTC3875-GR or
Q2721,Q2731	2213145R2	2SC2712-GR
Q2504,Q2506	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q2742	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q2756,Q2757	2216031R2 or	RN1444-A or
	2216032R2	RN1444-B <A>
	Diodes	
D2503-D2506	223234R2 or	1SS352 or
	223269R2	1SS355
	Oscillators	
X2751	3010369	HC-49/U033.579545M
X2752	3010381	HC-49/U034.433619M <A>
	Coils	
L2721,L2731	231237K220R2 or	NCH-1477 or
L2741	233533K220R2	NCH-1587-220K
L2751-L2753	231237K101R2 or	NCH-1481 or
	233533K101R2	NCH-1587-101K
L2754	231237K330R2	NCH-1478
L2755-L2757	231237K220R2 or	NCH-1477 or
	233533K220R2	NCH-1587-220K
L2758	231237K220R2 or	NCH-1477 or
	233533K220R2	NCH-1587-220K <A>
	Capacitors	
C2421,C2423	332161040R1	CK725F1E-104Z1, Ceramic
C2422,C2424	354721019	CE04W6.3V-100M,Elect.
C2425,C2427	332161040R1	CK725F1E-104Z1, Ceramic
C2426,C2428	354721019	CE04W6.3V-100M,Elect.
C2431	332161040R1	CK725F1E-104Z1, Ceramic
C2432,C2452	354721019	CE04W6.3V-100M,Elect.
C2433-C2436	332161040R1	CK725F1E-104Z1, Ceramic
C2451	332161040R1	CK725F1E-104Z1, Ceramic
C2501-C2503	332161040R1	CK725F1E-104Z1, Ceramic
C2504,C2506	354721019	CE04W6.3V-100M,Elect.
C2505	332161040R1	CK725F1E-104Z1, Ceramic
C2511,C2512	332161040R1	CK725F1E-104Z1, Ceramic
C2573,C2575	354721019	CE04W6.3V-100M,Elect.
C2574	332161040R1	CK725F1E-104Z1, Ceramic
C2601-C2603	332161040R1	CK725F1E-104Z1, Ceramic
C2604,C2606	354721019	CE04W6.3V-100M,Elect.
C2605	332161040R1	CK725F1E-104Z1, Ceramic
C2608,C2618	354780229	CE04W50V-2.2M,Elect.
C2611,C2612	332161040R1	CK725F1E-104Z1, Ceramic
C2703,C2705	332161040R1	CK725F1E-104Z1, Ceramic
C2704,C2706	354721019	CE04W6.3V-100M,Elect.
C2721,C2731	342102204R1	CC725CH1H-220J1,Ceramic
C2722,C2732	342101204R1	CC725CH1H-120J1,Ceramic
C2723	332161040R1	CK725F1E-104Z1, Ceramic
C2733	354744709	CE04W16V-47M,Elect.
C2741	342102204R1	CC725CH1H-220J1,Ceramic
C2742	342101204R1	CC725CH1H-120J1,Ceramic
C2751,C2752	332151030R1	CK725F1H-103Z1,Ceramic
C2753,C2755	354721019	CE04W6.3V-100M,Elect.
C2754,C2756	332161040R1	CK725F1E-104Z1, Ceramic
C2757,C2758	332151030R1	CK725F1H-103Z1,Ceramic

CIRCUIT NO.	PART NO.	DESCRIPTION
	Capacitors	
C2759,C2771	354784799	CE04W50V-0.47M,Elect.
C2760,C2762	354744709	CE04W16V-47M,Elect.
C2761,C2763	332151030R1	CK725F1H-103Z1,Ceramic
C2764,C2765	332151030R1	CK725F1H-103Z1,Ceramic
C2766	374721044	ECQ-V50V-104J,Plastic film
C2767	374726814	ECQ-B50V-681J,Plastic film
C2768,C2781	332161040R1	CK725F1E-104Z1, Ceramic
C2769,C2780	354721019	CE04W6.3V-100M,Elect.
C2770	332151030R1	CK725F1H-103Z1,Ceramic
C2772,C2774	342115614R1	CC725CH1E-561J1,Ceramic
C2773	342103914R1	CC725CH1H-391J1,Ceramic
C2775,C2777	332151030R1	CK725F1H-103Z1,Ceramic
C2776	354780479	CE04W50V-4.7M,Elect.
C2778	342105604R1	CC725CH1H-560J1,Ceramic
C2779	354780229	CE04W50V-2.2M,Elect.
C2782,C2787	332151030R1	CK725F1H-103Z1,Ceramic <A>
C2783	354784799	CE04W50V-0.47M,Elect. <A>
C2784	342115614R1	CC725CH1E-561J1,Ceramic <A>
C2785	342103914R1	CC725CH1H-391J1,Ceramic <A>
C2786	342105604R1	CC725CH1H-560J1,Ceramic <A>
C2788	354780479	CE04W50V-4.7M,Elect. <A>
C2789,C2792	332151030R1	CK725F1H-103Z1,Ceramic <A>
C2790	342105604R1	CC725CH1H-560J1,Ceramic <A>
C2791	354780229	CE04W50V-2.2M,Elect. <A>
C2793	354721019	CE04W6.3V-100M,Elect. <A>
C2794	332161040R1	CK725F1E-104Z1, Ceramic <A>
	Resistors	
R2401,R2403	435037504R1	RN72K1J-750JE,Carbon
R2402,R2404	435031034R1	RN72K1J-103JE,Carbon
R2405,R2407	435037504R1	RN72K1J-750JE,Carbon
R2406,R2408	435031034R1	RN72K1J-103JE,Carbon
R2409,R2411	435037504R1	RN72K1J-750JE,Carbon
R2410,R2412	435031034R1	RN72K1J-103JE,Carbon
R2421-R2428	435037504R1	RN72K1J-750JE,Carbon
R2431,R2432	435037504R1	RN72K1J-750JE,Carbon
R2501,R2511	435031014R1	RN72K1J-101JE,Carbon
R2502,R2512	435031034R1	RN72K1J-103JE,Carbon
R2503,R2504	435031824R1	RN72K1J-182JE,Carbon
R2505,R2605	435031234R1	RN72K1J-123JE,Carbon
R2506,R2516	435032214R1	RN72K1J-221JE,Carbon
R2508,R2509	435031024R1	RN72K1J-102JE,Carbon
R2510,R2520	435030474R1	RN72K1J-047JE,Carbon
R2513,R2514	435031824R1	RN72K1J-182JE,Carbon
R2515,R2615	435031534R1	RN72K1J-153JE,Carbon
R2518,R2519	435031024R1	RN72K1J-102JE,Carbon
R2521,R2524	435030474R1	RN72K1J-047JE,Carbon
R2601,R2611	435031014R1	RN72K1J-101JE,Carbon
R2602,R2612	435031034R1	RN72K1J-103JE,Carbon
R2603,R2604	435031824R1	RN72K1J-182JE,Carbon
R2606,R2616	435032214R1	RN72K1J-221JE,Carbon
R2613,R2614	435031824R1	RN72K1J-182JE,Carbon
R2701,R2711	435031014R1	RN72K1J-101JE,Carbon
R2703,R2713	435031824R1	RN72K1J-182JE,Carbon
R2704,R2714	435032724R1	RN72K1J-272JE,Carbon
R2706,R2716	435032214R1	RN72K1J-221JE,Carbon
R2721,R2731	435031034R1	RN72K1J-103JE,Carbon
R2722,R2723	435038214R1	RN72K1J-821JE,Carbon
R2724,R2734	435031224R1	RN72K1J-122JE,Carbon
R2732,R2733	435038214R1	RN72K1J-821JE,Carbon
R2743,R2746	435038214R1	RN72K1J-821JE,Carbon
R2744	435031524R1	RN72K1J-152JE,Carbon
R2745	435033324R1	RN72K1J-332JE,Carbon
R2751	435031024R1	RN72K1J-102JE,Carbon
R2753	435033314R1	RN72K1J-331JE,Carbon
R2754,R2757	435033914R1	RN72K1J-391JE,Carbon
R2755	435031054R1	RN72K1J-105JE,Carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R2756	435031534R1	RN72K1J-153JE,Carbon
R2758,R2759	435031034R1	RN72K1J-103JE,Carbon
R2760,R2761	435031014R1	RN72K1J-101JE,Carbon
R2762,R2765	435033914R1	RN72K1J-391JE,Carbon <A>
R2763	435031054R1	RN72K1J-105JE,Carbon <A>
R2764	435031534R1	RN72K1J-153JE,Carbon <A>
R2766,R2767	435031034R1	RN72K1J-103JE,Carbon <A>
R2768	435030004R1	RN72K1J-000JE,Carbon <A>
R2769,R2773	435031044R1	RN72K1J-104JE,Carbon <A>
R2771	435030004R1	RN72K1J-000JE,Carbon
R2772	435030004R1	RN72K1J-000JE,Carbon <D>
	Sockets	
P2501	25051955	NSCT-4P1742
P2502	25051957	NSCT-12P1744
P2503,P2504	25051956	NSCT-8P1743
P2505B	25051530	NSCT-19P1317
P2507B	25051241	NSCT-20P1031
	Plug	
P2506A	25055236	NPLG-5P220
COMPONENT VIDEO PC BOARD (NAVD-8070-1D/1F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q2801	22241465R2	LA7106MFP
Q2821	22241851R3	TA1270BF
Q2822	22241999	TA8772AN <A>
	Transistors	
Q2803,Q2804	2216330R2 or	KRC101S or
	2214460R2	RN1401
Q2823,Q2824	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR <A>
Q2825,Q2826	2216330R2 or	KRC101S or
	2214460R2	RN1401 <A>
	Diodes	
D2801-D2804	223234R2 or	1SS352 or
	223269R2	1SS355
	Oscillators	
X2821	3010370	CSBLA503KECZF30
X2822	3010369	HC-49/U033.579545M
X2823	3010381	HC-49/U034.433619M <A>
	Capacitors	
C2801-C2803	332161040R1	CK725F1E-104Z1, Ceramic
C2804,C2806	354721019	CE04W6.3V-100M,Elect.
C2805,C2807	332161040R1	CK725F1E-104Z1, Ceramic
C2811-C2813	354741009	CE04W16V-10M,Elect.
C2824	354721019	CE04W6.3V-100M,Elect.
C2825,C2827	332161040R1	CK725F1E-104Z1, Ceramic
C2826,C2829	374721044	ECQ-V50V-104J,Plastic film
C2828	354744709	CE04W16V-47M,Elect.
C2830,C2833	354780229	CE04W50V-2.2M,Elect.
C2831	332161040R1	CK725F1E-104Z1, Ceramic
C2832	374722234	ECQ-B50V-223J,Plastic film
C2834	342105604R1	CC725CH1H-560J1,Ceramic
C2835	374722224	ECQ-B50V-222J,Plastic film
C2836	354782299	CE04W50V-0.22M,Elect.
C2837	342105604R1	CC725CH1H-560J1,Ceramic <A>
C2838,C2839	332161040R1	CK725F1E-104Z1, Ceramic <A>
C2840,C2847	354744709	CE04W16V-47M,Elect. <A>
C2841,C2842	332161040R1	CK725F1E-104Z1, Ceramic <A>
C2843	354741009	CE04W16V-10M,Elect. <A>
C2844,C2846	332161040R1	CK725F1E-104Z1, Ceramic <A>
C2845,C2848	354784799	CE04W50V-0.47M,Elect. <A>
C2849-C2851	354780109	CE04W50V-1M,Elect. <A>
C2852-C2857	332161040R1	CK725F1E-104Z1, Ceramic <A>

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R2811~R2813	435031014R1	RN72K1J-101JE,Carbon
R2814~R2816	435037504R1	RN72K1J-750JE,Carbon
R2822,R2823	435031014R1	RN72K1J-101JE,Carbon
R2824,R2830	435031814R1	RN72K1J-181JE,Carbon
R2825	435031034R1	RN72K1J-103JE,Carbon
R2826	435033324R1	RN72K1J-332JE,Carbon
R2827,R2828	435033334R1	RN72K1J-333JE,Carbon
R2829	435033344R1	RN72K1J-334JE,Carbon
R2831~R2833	435031034R1	RN72K1J-103JE,Carbon
R2834	435031034R1	RN72K1J-103JE,Carbon <A>
R2835~R2839	435031024R1	RN72K1J-102JE,Carbon <A>
R2840,R2842	435031034R1	RN72K1J-103JE,Carbon <A>
R2841	435031024R1	RN72K1J-102JE,Carbon <A>
R2843	435030004R1	RN72K1J-000JE,Carbon <D>
R2844	435030004R1	RN72K1J-000JE,Carbon <A>
R2845~R2848	435031514R1	RN72K1J-151JE,Carbon
R2849,R2850	435030004R1	RN72K1J-000JE,Carbon
	Terminals	
P2801~P2803	25045607	NPJ-3PDGLR414
	Relays	
RL2801~RL2804	25065610	NRL-2P1A-DC4.5-156
	Sockets	
P2705B	25051526	NSCT-4P1313
P2853B	25051230	NSCT-5P1020
P2855B	25051233	NSCT-8P1023
CONNECTOR PC BOARD (NAETC-8073-1D/1F)		
CIRCUIT NO.	PART NO.	DESCRIPTION
	Plugs	
P274A,P2804A	25055806	NPLG-17P762
P2853A	25055701	NPLG-5P657

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