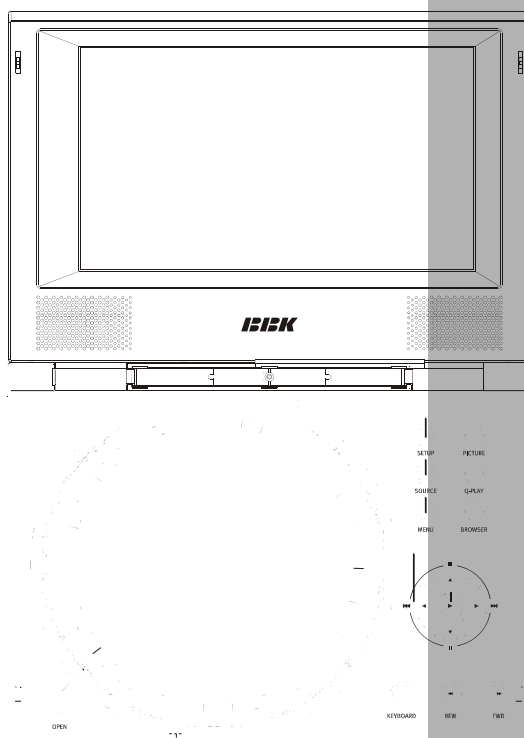


BBK

DL370TI(RU)-4

Service Manual



Model version:TI2.04

Catalog

Chapter One About Maintenance	1
1.1 Safety precautions	1
1.1.1 Power Safety Warning	1
1.1.2 Precautions for antistatic	1
1.1.3 Precautions for display screen	1
1.1.4 Precautions for laser head	2
1.1.5 About placement position	2
1.2 Maintenance method	2
1.2.1 Electric resistance method	2
1.2.2 Voltage method	2
1.2.3 Current method	2
1.2.4 Element substitution method	2
1.2.5 Cutting method	2
1.2.6 Visualized method	3
1.2.7 Comparison method	3
1.3 Required device for maintenance	3
Chapter Two Functions and Operation Instructions	4
2.1 Features	4
2.2 Set list	5
2.3 Controls and functions	5
2.4 Remote control general view	6
2.5 Function settings	7
2.5.1 Function selection and change	7
2.5.2 Language settings	7
2.5.3 Image settings menu	7
2.5.4 Sound settings menu	7
2.5.5 Playback settings	8

2.5.6 Preference settings	8
2.5.7 Family filter settings	8
2.5.8 Initial settings menu	8
2.5.9 Reset settings to default	9
2.5.10 Exit settings menu	9
2.6 Others	9
2.6.1 Useful notes	9
2.6.2 Trouble shooting	9
2.6.3 Technical characteristics	10
Chapter Three Block Diagram	11
Section One PCB diagram and block diagram of player	11
3.1.1 Overall wiring diagram for player	11
3.1.2 Block diagram for player	12
Section Two Unit Circuit Principle	13
3.2.1 Servo process circuit	13
3.2.2 Decode circuit	14
3.2.3 Block diagram of video circuit	14
3.2.4 Block diagram of audio circuit	15
Section Three Troubleshooting Flow Chart	16
Section Four Servicing Parameters	21
Chapter Four Explosion Chart	26
Chapter Cinque PCB Board&Circuit Diagram	29
Section One PCB Board	29
Section Two circuit diagram	32
Chapter Six BOM List	42

Chapter One About Maintenance

1.1 Safety precautions

1.1.1 Power Safety Warning

Voltage of Portable DVD is safe low voltage, but there is 220V AC high voltage on Power Adapter, it can cause damage to body ! Maintenance personnel should take extra care.

1.1.2 Precautions for antistatic

Movement and friction will both bring static electricity which causes serious damages to integrated IC. Though static charge is little, when a limited quantity of electric charge is added to large scale integrated IC, as the capacitance is very small in the meantime, now the integrated IC is very much easy to be struck through by static electricity or the performance will decrease. Thus static electricity prevention is of extraordinary importance. The following are several measures to prevent static electricity:

1. Use a piece of electric conduction metal with the length of about 2 metres to insert into the earth, and Fetch the lead wire from the top of the surplus metal and connect to the required static electricity device. The length and depth of the metal embedded under the earth should be determined according to the wettability of the local soil. For humid places, it may be shorter, and longer and deeper for dry places. If possible, it can be distributed and layed in terms of “#” shape.
2. On operating table-board, the antistatic table cushion should be covered and grounded.
3. All devices and equipments should be placed on the antistatic table cushion and grounded.
4. Maintenance personnel should wear antistatic wrist ring which should be grounded.
5. Places around the operating position should also be covered with electric conduction cushion or Painted with antistatic paint.

1.1.3 Precautions for display screen

1. Display screen is breakable article, so please protect carefully when carrying and prevent fingers or hard objects striking the screen to damage structure of the screen.
2. When cleaning screen, do not use organic chemicals. You should use cloth and use small amount of special cleaning liquid in places difficult to clean.

1.1.4 Precautions for laser head

1. Do not stare at laser head directly, for laser emission will occur when laser head is working, which will Hurt your eyes!
2. Do not use wiping water or alcohol to clean laser head, and you may use cotton swab.

1.1.5 About placement position

1. Never place TV in positions with high temperature and humidity.
2. Avoid placing near high magnetic fields, such as loudspeaker or magnet.
3. Positions for placement should be stable and secure.

1.2 Maintenance method

1.2.1 Electric resistance method

Set the multimeter in resistance position and test whether the numerical value of resistance of each point in the circuit has difference from the normal value to judge the trouble spot. But in the circuit the tested numerical value of resistance is not accurate, and the tested numerical value of integrated IC's pins can only be used for reference, so the elements should be broken down for test.

1.2.2 Voltage method

Voltage method is relatively convenient, quick and accurate. Set the multimeter in voltage position and test power supply voltage of the player and voltage of a certain point to judge the trouble spot according to the tested voltage variation.

1.2.3 Current method

Set the multimeter in current position and test current of the player of a certain point to judge the trouble spot. But when testing in current method, the multimeter should be series connected in the circuit, which makes this method too trivial and troublesome, so it is less frequently used in reality.

1.2.4 Element substitution method

When some elements cannot be judged good or bad, substitution method may be adopted directly.

1.2.5 Cutting method

Cutting method should be combined with electric resistance method and voltage method to use. This method is mainly used in phenomena of short circuit and current leakage of the circuit. When cutting the input terminal voltage of a certain level, if voltage of the player rises again, it means that the trouble lies in this level.

1.2.6 Visualized method

Directly view whether abnormalities of collision, lack of element, joint welding, shedding welding, rosin joint, copper foil turning up, lead wire disconnection and elements burning up among pins of Elements appear. Check power supply of the machine and then use hands to touch the casing of part of elements and check whether they are hot to judge the trouble spot. You should pay more attention when using this method to check in high voltage parts.

1.2.7 Comparison method

A same good PC board is usually used to test the correct voltage and waveform. Compared these data with those tested through fault PC board, the cause of troubles may be found.

Through the above maintenance method, theoretical knowledge and maintenance experience, all difficulties and troubles will be readily solved.

1.3 Required device for maintenance

- ◆ Audio Generator
- ◆ Digital oscillograph ($\geq 100\text{MHE}$)
- ◆ SMD rework station
- ◆ Multimeter
- ◆ Soldering iron
- ◆ Pointed-month pincers
- ◆ Cutting nippers
- ◆ Forceps
- ◆ Electric screw driver
- ◆ Terminals connecting cord
- ◆ Headphone
- ◆ Microphone

Chapter Two

Functions and Operation Instructions

2.1 Features

This portable DVD player has a color large-format TFT LCD and the newest decoding processor, and due to this fact enables you to enjoy high-quality picture and sound. The reading discs mechanism has the latest error protection, so it can work in difficult conditions of shaking and vibration.

Compatible Disc Types:

#Digital video playback: DVD-Video, Super VCD, VCD compatibility

#MPEG-4 standard support: compatibility with Divx3.11, Divx4, Divx5, Divx Pro, XviD compressed video files

#Digital audio playback: CD-DA and HDCD compatibility

#Fully compatible with compressed audio files such as OGG and WMA

#Digital graphic albums playback: Kodak Picture CD, JPEG compatibility

Video:

#Color TFT LCD

#Composite video inputs for external signal source

Audio:

#Stereo signal input for external signal connection

#Digital decoders, providing Dolby Digital/DTS audio stream playing

#Built-in stereo audio system

#Headphones output

Model	WMA playback(closed lid)	WMA+JPEG playback	DVD playback
DL370SI,DL370TI	4h.	2.5h.	3h.
DL374SI,DL374TI	4h.	2.5h.	3h.
DL376SI	6h.	3h.	3.5h.
DL386SI,DL386TI	4h.	2h.	2.5h.

Others:

#Built-in TV tuner to receive an on-air broadcasting signal on its antenna and transmit video and sound on the portable DVD player.

#Russia, CIS and Baltic States adaptation interface and filenames, ID3-tags and CD-Text support simplifies device operation

#"Memory" function enables to save the last point after stop playback

#"Source" function enables to select video signal source.

#"Q-Play" function provides direct playback and allows to skip commercial that is not possible to rewind

#"Virtual Keyboard" function provides more convenient DVD playback control

#"Browser" function provides easy access to playback control

#Parental control function to protect children from watching inappropriate discs

#Power supply for external devices(5V)(For all models except DL370TI,DL374TI,DL386TI.)

#External antenna output.

#Modern shaking and vibration protection technology

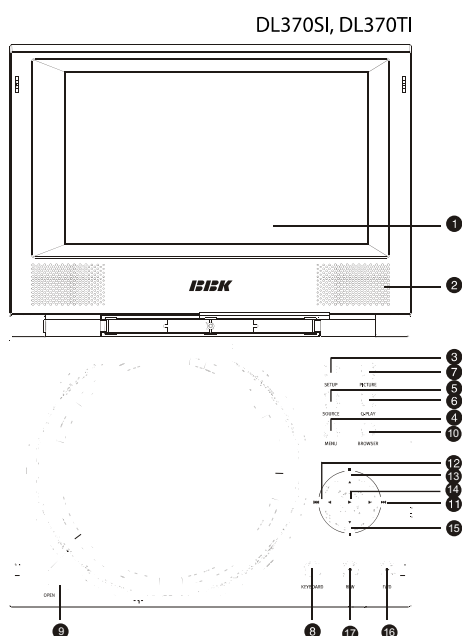
#3 power sources: accumulator, AC power adapter, automobile power adapter

2.2 Set list

Portable DVD player	1pcs
Battery	1pcs
Charger/adapter	1pcs
Adapter cable	1pcs
Car charger/adapter	1pcs
AV cord	1pcs
Remote control	1pcs
Battery CR2025	1pcs
Transportation bag	1pcs
Headphones	1pcs
Warranty card	1pcs
User manual	1pcs
Antenna	1pcs
Antenna connector	1pcs

2.3 Controls and functions

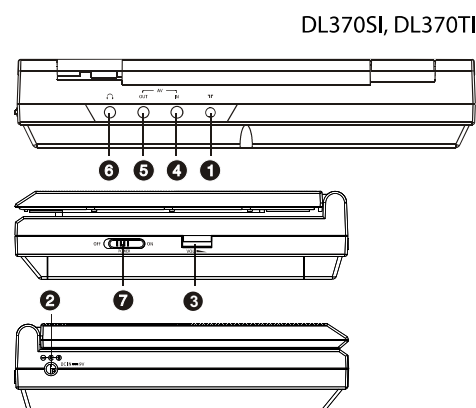
Portable DVD player overview



- ① **TFT LCD**
- ② **Built-in loud-speaker**
- ③ **SETUP button**
Press to switch setup mode.
- ④ **MENU button**
Press to switch disc menu.
- ⑤ **SOURCE button**
Press to change signal source.
- ⑥ **Q-PLAY button**
Press to turn Q-Play mode on.

- ⑦ **PICTURE button**
Press to adjust picture.
- ⑧ **KEYBOARD button**
- ⑨ **OPEN button**
- ⑩ **BROWSER button**
- ⑪ **NEXT/RIGHT button**
Press to play next/right.
- ⑫ **PREV/LEFT button**
Press to play from previous mark/left.
- ⑬ **STOP/UP button**
- ⑭ **PLAY button**
- ⑮ **PAUSE/DOWN button**
- ⑯ **FWDbutton**
Press to skip forward.
- ⑰ **REW button**
Press to skip reverse.

Portable DVD player side view



- ① **External antenna output**
- ② **Power socket**
- ③ **VOLUME adjuster**
- ④ **AV IN**
- ⑤ **AV OUT**
- ⑥ **Headphones output**
- ⑦ **Power button**
Press to switch off the player.

2.4 Remote control general view

1 DISP button

Press to display the disc information.

2 Q-PLAY button

Press to turn the Q-Play mode on.

3 LANG button

Press to change language.

4 ZOOM+/- button

Press to zoom in/out.

5 SUBT button

Press to change the subtitles language.

6 Button

Press to turn on/off the virtual control panel.

7 UP/CH, DOWN/CH buttons

Cursor buttons/press to change channel

8 BROWSE/--/- button

Press to turn on/off the browser function/Press to switch one or two-digit program number.

9 Button

Press to skip backward.

10 SETUP button

Press to switch to setup mode.

11 Button

Press to start rewind/rewind scanning.

12 Button

Press to stop the playback.

13 Button

Press to change image settings.

14 SOURCE button

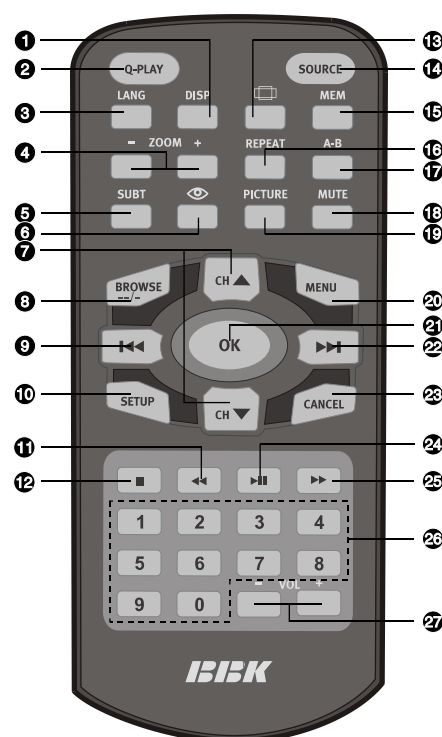
Press to change signal source.

15 MEM button

Press to memorize the point where playback was stopped/playback from the previously memorized point.

16 REPEAT button

Press to repeat playback.



17 A-B button

Press to repeat the selected portion.

18 MUTE button

Press to turn on/off the sound.

19 PICTURE button

Press to change picture mode.

20 MENU button

DVD disc menu/PBC function.

21 OK button

22 Button

Press to skip forward.

23 CANCEL button

Press to go one level back/cancel current operation.

24 Button

Press to playback/pause.

25 Button

Press to start forward/forward scanning.

26 Numeric buttons

27 VOL +/- buttons

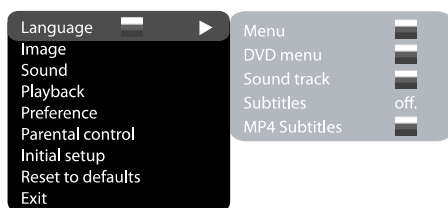
Press to adjust the volume.

2.5 FUNCTION SETTINGS

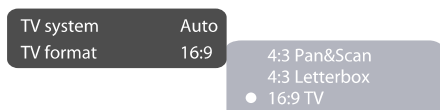
2.5.1 Function selection and change

#Press the SETUP button to show the setup menu. You will see the following image on the screen, as shown on the figure:

#Select the desired menu item using the UP/DOWN buttons button; press the OK button for confirmation.



1. For example, if you wish to change the image settings, You have to select the image item and press the OK or RIGHT key.
2. Using the UP/DOWN buttons, select the desired item and press OK or RIGHT button. For example, select the TV format item. Settings will appear on the screen. Then select the desired TV 16:9 and press OK for confirmation.
3. Press LEFT for exit to previous menu level.
4. Press SETUP to exit setup menu.

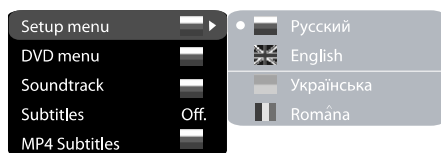


2.5.2 Language settings

1. Menu: interface language set-up

#Options: Russian, English, Ukrainian, Romanian.

#Default option: Russian.



2. DVD menu: selection of disc menu language
 3. Sound: selection of translation language
- #Disc menu/translation language options: Russian, English, Estonian, Lithuanian, Kazakh, Romanian, Belarusian, Ukrainian, Chinese.
- #Default menu/translation language option: English.

#Selection of other languages: select the OTHERS item using the wheel and press OK. Enter the language code using the numeric buttons and press OK.

#If the language you selected is not recorded on the DVD disc, another available language will be used.

4. DVD Subtitles: selection of subtitles language
- #Options: Off, Russian, English, Estonian, Lithuanian, Kazakh, Romanian, Belarusian, Ukrainian, and Chinese.

#Default option: Off.

#Selection of other languages: select the OTHERS item using the wheel and press OK. Enter the language code using numeric buttons and press OK.

#If the language you selected is not recorded on the DVD disc, another available language will be displayed.

5. MP4 Subtitles: selection of subtitles language
- #Options: Russian, English, Romanian and Ukrainian.

#Default option: Russian.

2.5.3 Image settings menu

1. TV system: TV system selection

#Options: Auto, PAL, NTSC.

#Default option: Auto.

2. TV Format: image ratio settings

Options: 4:3 pan&scan, 4:3 letterbox and 16:9 TV.

#Default option: 16:9 TV.

#Some discs are recorded with support of only one ratio.

The selected ratio must comply with the TV screen.



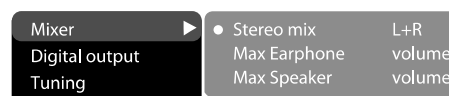
2.5.4 Sound settings menu

1. Mixer

a) Configuration: setting of the mode for conversion Of L+R to L or R.

#Options: L+R, R, L.

#Default option: L+R.



B)Max volume of headphone: this item is used to set the maximum volume headphone.

#Options: Low, Medium, High.

#Default: Low.

C)Max volume of speaker: this item is used to set the maximum volume of speaker.

#Options: Low, Medium, High.

#Default: Medium.



2. Tuning

A)Max volume: max volume limiting

#Using the cursor buttons, adjust the max volume level.

#Press the LEFT key to return to sound correction set-up menu.

B)Equalizer: equalizer modes

#Options: Off, rock, pop, live dance, techno, classics, soft.

#Default option: Off.

C)Echo:echo effects

#Options: Off, concert, living room, hall, bathroom, cave, arena, church.

#Default option: Off.

D)Tone balance: adjustment of tone balance level.

#Adjust the tone balance level using the cursor buttons.

#Press the LEFT button to return to sound correction set-up menu.

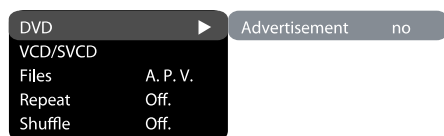
2.5.5 Playback settings

1.DVD

Advertisement skip: skip the unskippable block while playing a DVD disc.

#Options: Yes, No.

#Default option: No.



2.VCD/SVCD

PBS menu: PBS menu on/off

#Options: On, Off.

#Default option: On.

#If On option is set , while reproducing discs, a menu will appear, in which you can select the order of playing the disc content. If the Off option is set, the reproducing of content is performed in the order, in which it is recorded on the disc.

3.Files: selection of reproduced files on the disc

#Options: Audio, Pictures, Video.

#Default option: A. P. V

4.Repeat: file repeat mode

#Options: Off, Single, All.

#Default option: Off.

5.Shuffle: shuffle files from the playlist

#Options: Off, On.

#Default option: Off.

2.5.6 Preference settings

1.Equalizer: spectrum analyzer

#Options: On, Off.

#Default option: Off.

2.Screensaver: screen saver on/off

#Options: On, Off.

#Default option: On.

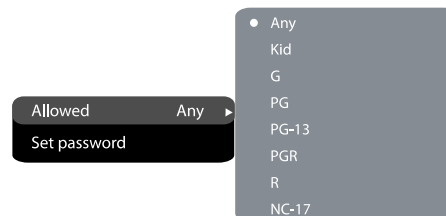


2.5.7 Family filter settings

1.Category: set-up of age restrictions to prevent children from seeing undesirable discs.

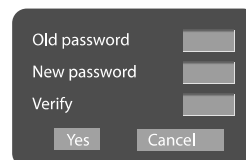
#Options: Any, Kid, G, PG, PG-13, PGR, R, NC-17

#Default option: Any.



2.Change password: set-up of a four-digit password to change the level of age restrictions.

Default option:7890.



2.5.8 Initial settings menu

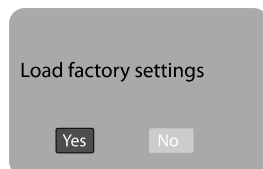
#Press the RIGHT key to enter the initial settings menu, then select the desired item using the cursor buttons and press OK key for confirmation.

#While being in this menu section, you cannot return to the previous level by pressing the LEFT key.



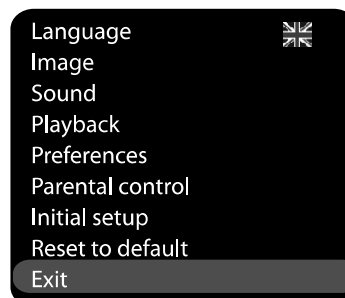
2.5.9 Reset settings to default

#Resetting all settings and restoring default options, except age restrictions level and password.



2.5.10 Exit settings menu

#Select the exit item using the UP/DOWN buttons and press the OK key to exit the menu.



2.6 OTHERS

2.6.1 Useful notes

#To extend the service life of your DVD player make pauses of not less than 30 seconds between switching off and repeatedly switching on the DVD player.

#Disconnect the DVD player from the wall outlet after shutdown.

#Some DVD player's functions may not be applied to some discs.

#Use supply sources of rated voltage, otherwise the DVD player may not function or be damaged.

#In case of the DVD player's occasional stops, please switch the power supply off and then on again.

2.6.2 Trouble shooting

Please check probable causes of malfunction before addressing the service center.

Sign of trouble	Cause of trouble	Actions to eliminate the trouble
No sound	1. Poor audio cable connection. 2. Disc dirty or damaged. 3. Sound disabled by the MUTE button.	1. Make proper connection. 2. Clean the disc. 3. Press the MUTE button.
No image	1. Poor video cable connection. 2. External video signal input is inactive.	1. Make proper connection. 2. Press SOURCE button.
Black and white image	1. Color level adjusted incorrectly.	1. Readjust the color system.
Discs cannot be read	1. Disc not inserted. 2. Disc inserted incorrectly. 3. Condensate on the DVD player's laser head.	1. Insert the disc. 2. Install the disc with the label side facing up. 3. Switch the DVD player on without disc for an hour.
Remote control does not operate	1. Remote control is incorrectly directed at the DVD player's screen. 2. Distance to the DVD player is in excess of 8 meters. 3. Run out battery.	1. Use the remote control according to the manual. 2. Decrease the distance to the DVD player. 3. Replace the battery.
Some functions do not work	1. Disc is recorded incorrectly. 2. Incorrect key sequence. 3. Static voltage on the DVD player's housing.	1. Wait 5-10 seconds and the DVD player will automatically return to normal state. 2. Repeat the operation one more time. 3. Switch the DVD player off for 1-2 minutes and then switch it on again.
Image fault	1. Battery charge is consumed.	1. Charge your battery or connect adapter.
Errors in normal disc playback	1. Defective disc. 2. Wrong button is pressed. 3. Static discharge.	1. Check the disc. 2. Press the right button. 3. Switch off the player for 1-2 minutes.

2.6.3 Technical characteristics

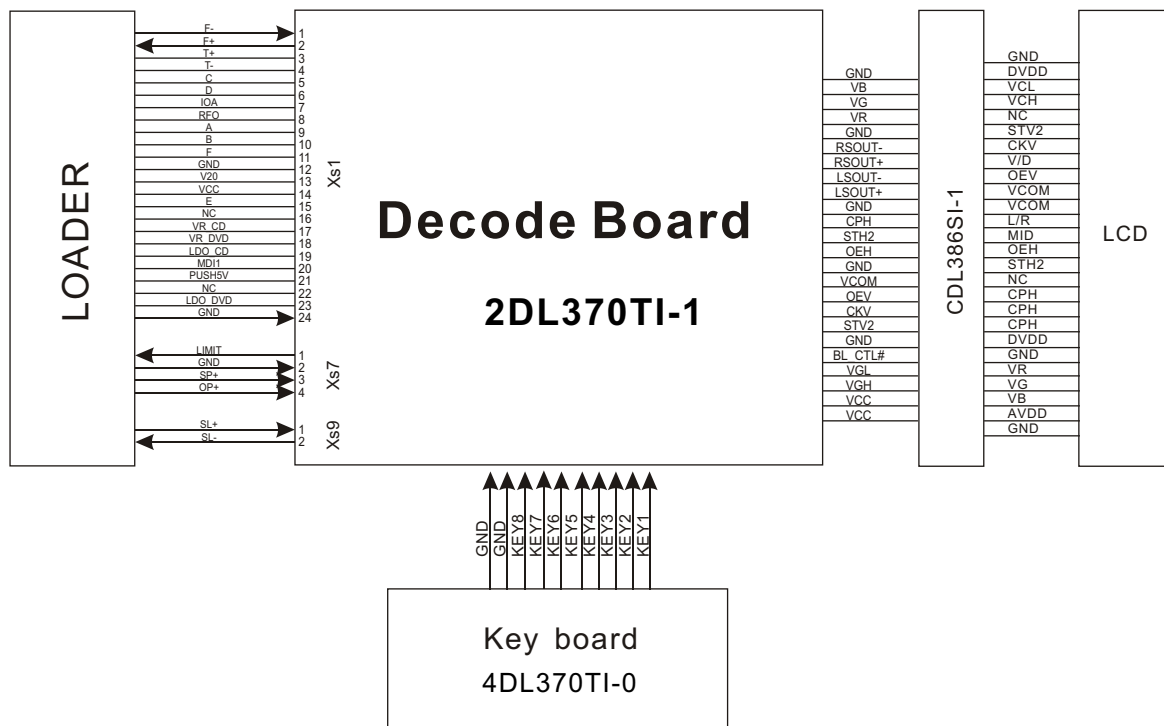
Models		DL370SI DL370TI	DL374SI DL374TI	DL376SI	DL386SI DL386TI
Disc types	DVD-Video, DivX 3.11, DivX 4, DivX 5, DivX Pro, XviD, Super VCS, VCD 1.0, 1.1, 2.0, CD-DA, HDCD, OGG, WMA, Kodak Picture CD, JPEG				
Medium types	CD-R, CD-RW, DVD-R, DVD+R, DVD-RW, DVD+RW	+			
	SD, MMC, MS Cards	-	-	+	-
Outputs	Headphone output	1	1	2	1
	Analogue stereophonic audio output	+			
	Optical digital audio output	-			
	Composite video outputs	+			
	S-Video output	-			
	Coaxial digital audio output	-	-	+	-
Inputs	Stereo audio input	+			
	Composite video input	+			
	USB	-	+	+	+
Video characteristics	Video amplitude	1.0Vp-p (75 W)			
Audio characteristics	Frequency	20-20000 Hz (± 1 dB)			
	Signal-to-noise Ratio	>100 dB			
	Total harmonic distortion	<0,01%			
General Specifications	TFT color display	7"	7"	7"	8,5"
	Power supply, V; Hz	~ 110-250; 50/60			
	Power consumption, W	15			
	Dimensions, mm	205x149,5x39,5	220x147,5x38	224x163,6x44,5	248x157x40
	Mass, kg	0,375	0,685	0,814	0,863
Operating temperature	5-35 °C				
Operating Humidity	15-75% (no condensation)				

Chapter Three Block Diagram

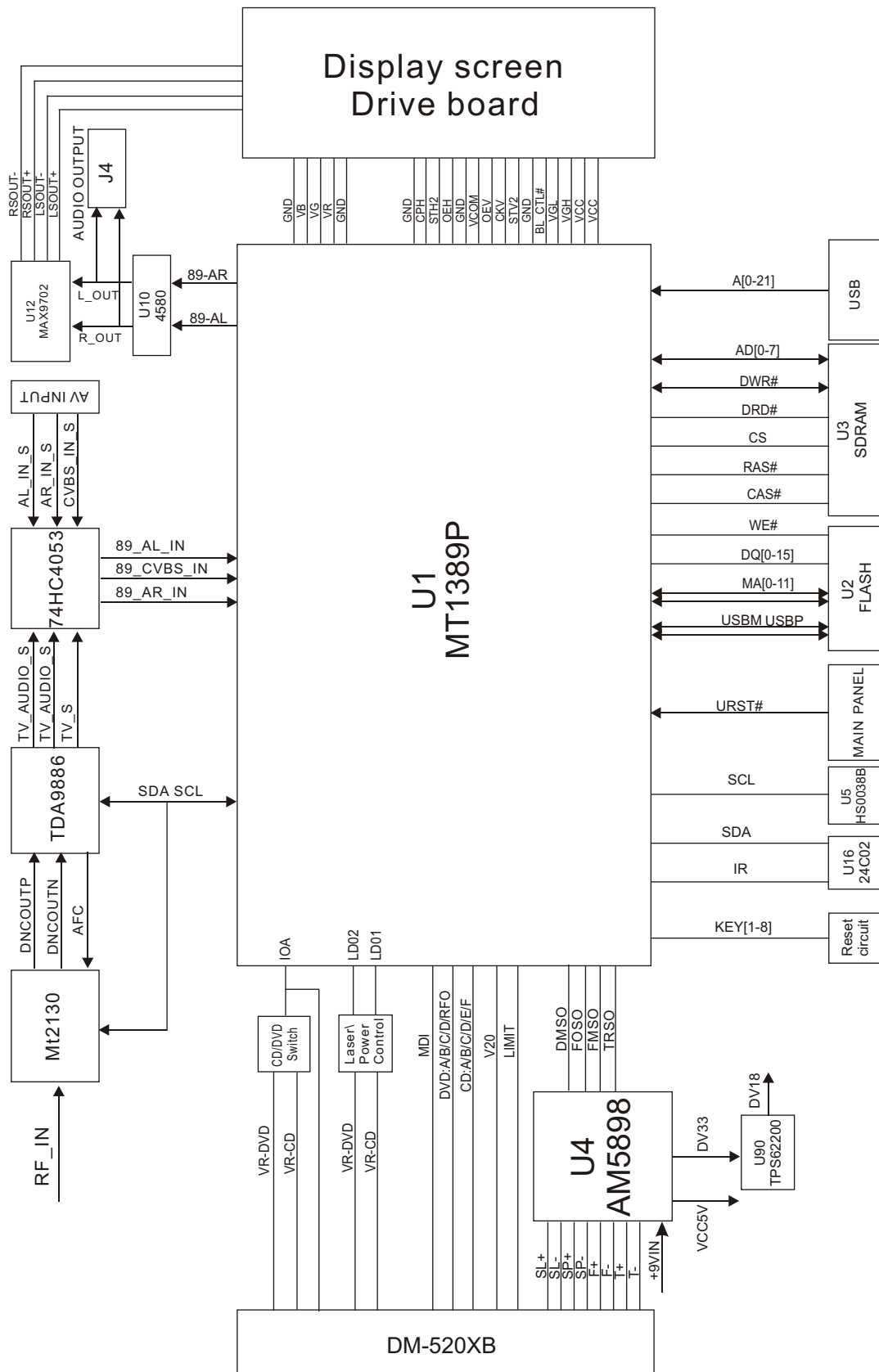
Section One PCB

diagram and block diagram of player

3.1.1 Overall wiring diagram for player.



3.1.2 Block diagram for player.



Section Two Unit circuit principle

3.2.1 Servo process circuit.

DL370TI adopts SONY loader and MTK1389P decode scheme (MT1389P)+FLASH (16M)+SDRAM (64M). Servo circuit is mainly composed of front signal processing, digital servo processing, digital signal processing chip MT1389 and drive circuit AM5898. MT1389P is the main composing part of decode circuit. Servo processing circuit block diagram is shown in 3.2.1.1:

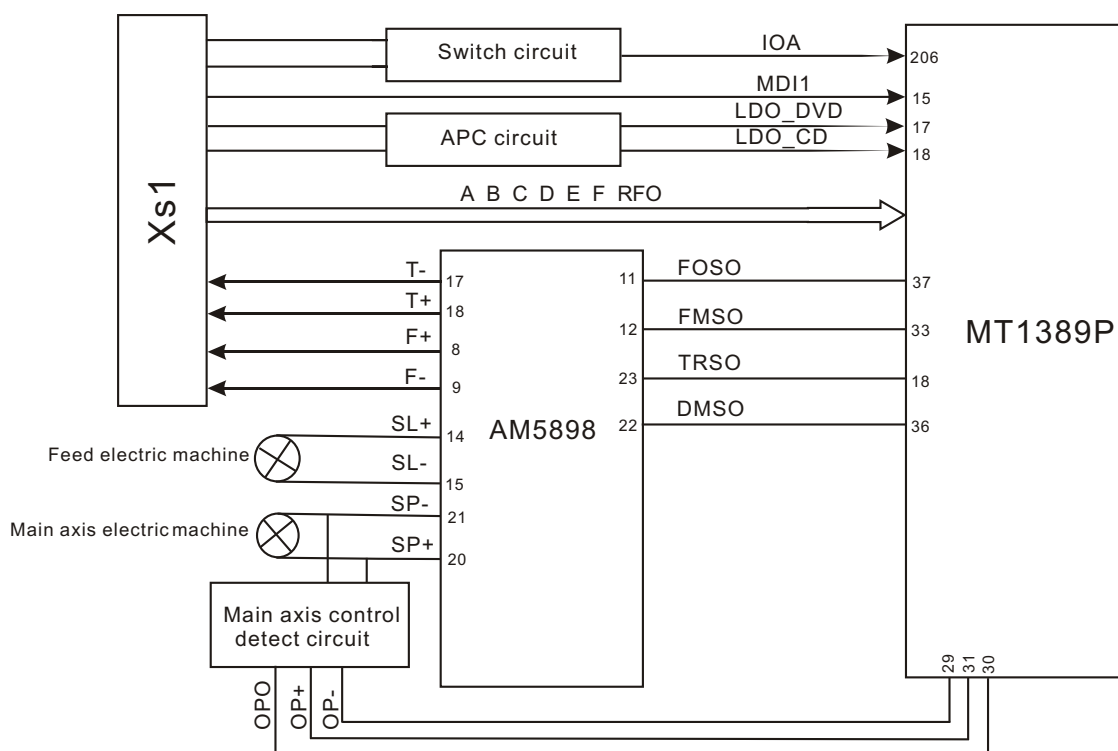


Figure 3.2.1.1 Block diagram of servo processing circuit

3.2.2 Decode circuit .

1.Block diagram of decode circuit, shown in figure 3.2.2.1:

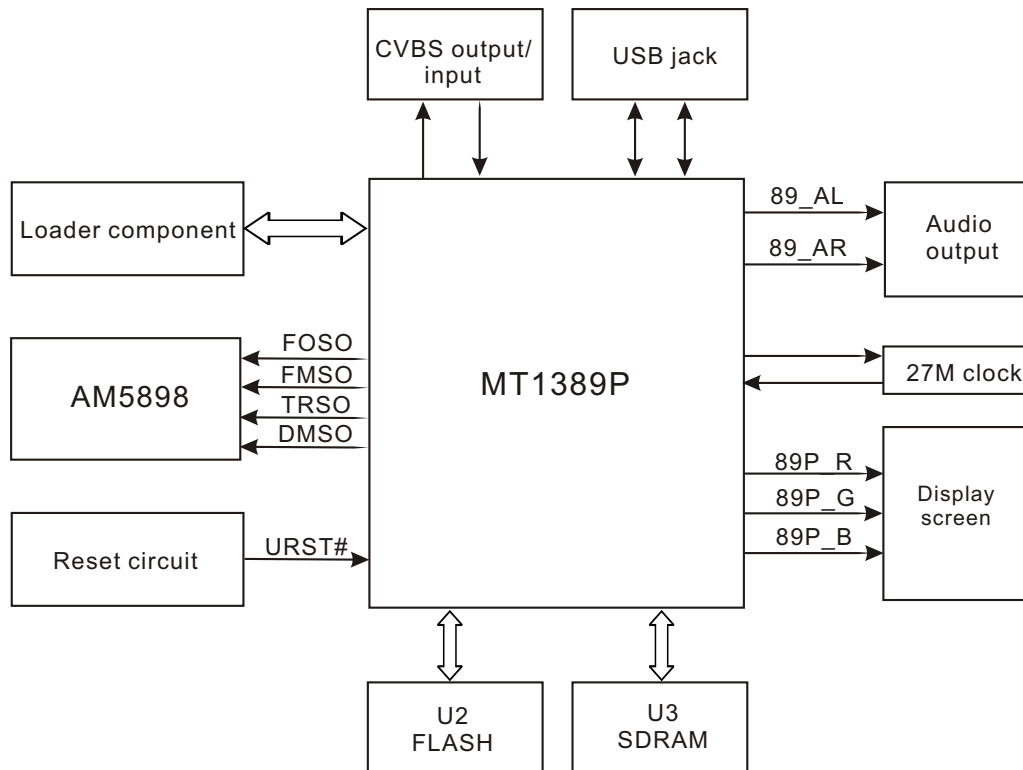


Figure 3.2.2.1 Block diagram of decode circuit

3.2.3 Block diagram of video circuit.

1.MT1389P built-in Video decoder is able to output analog/digital audio signal. The amplified signal can output to terminal . Block diagram of Video circuit is shown in figure 3.2.3.1:

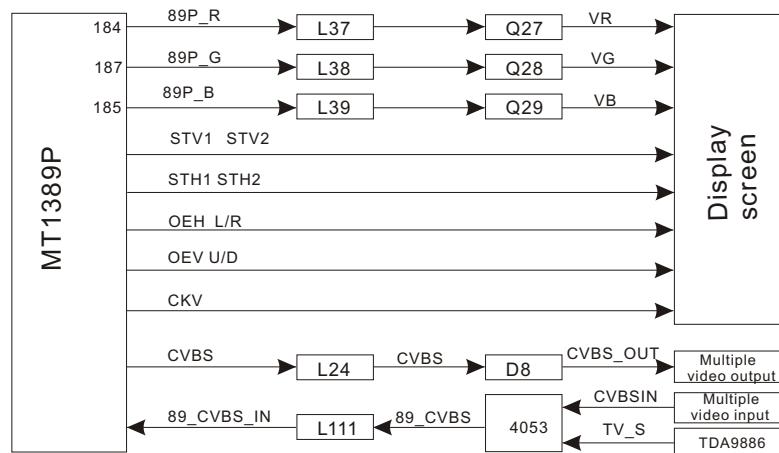


Figure 3.2.3.1 Block diagram of audio circuit

3.2.4 Block diagram of audio circuit.

1.MT1389P built-in audio decoder can output analog/digital signal. The signal outputs to terminal or headphone and loudspeaker directly after amplifying. Block diagram of audio circuit is shown 3.2.4.1:

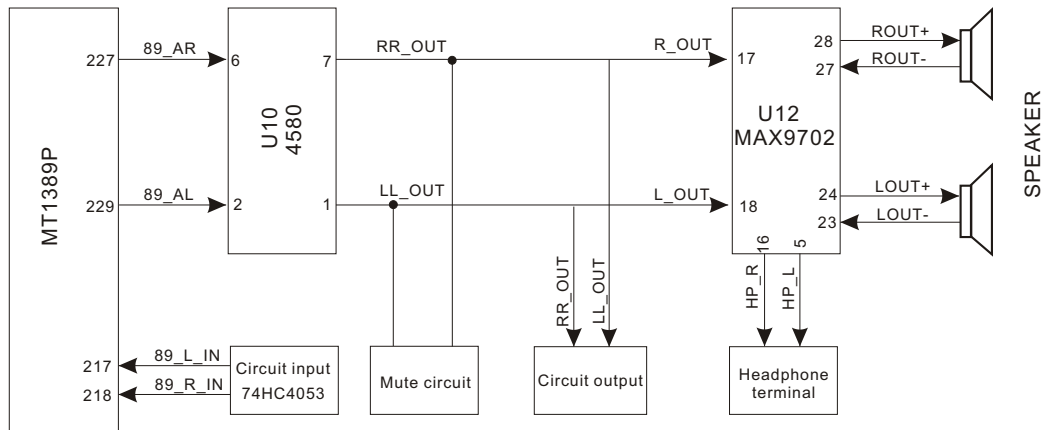
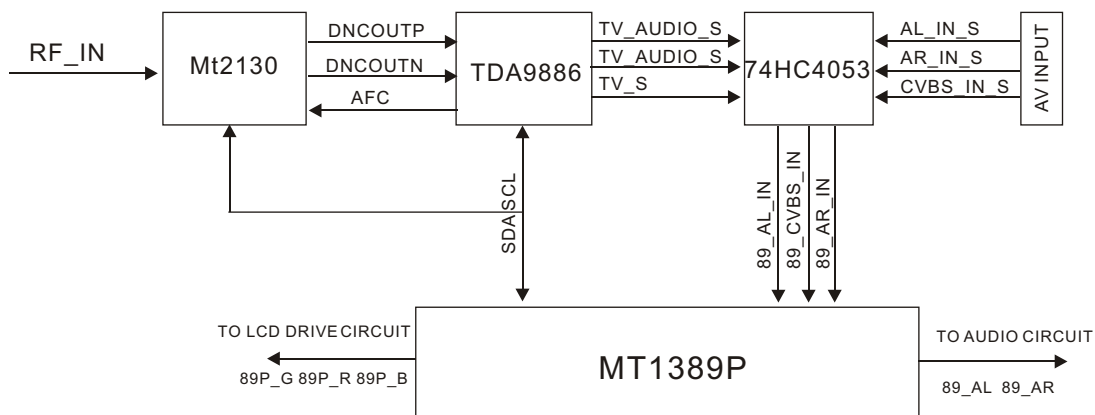


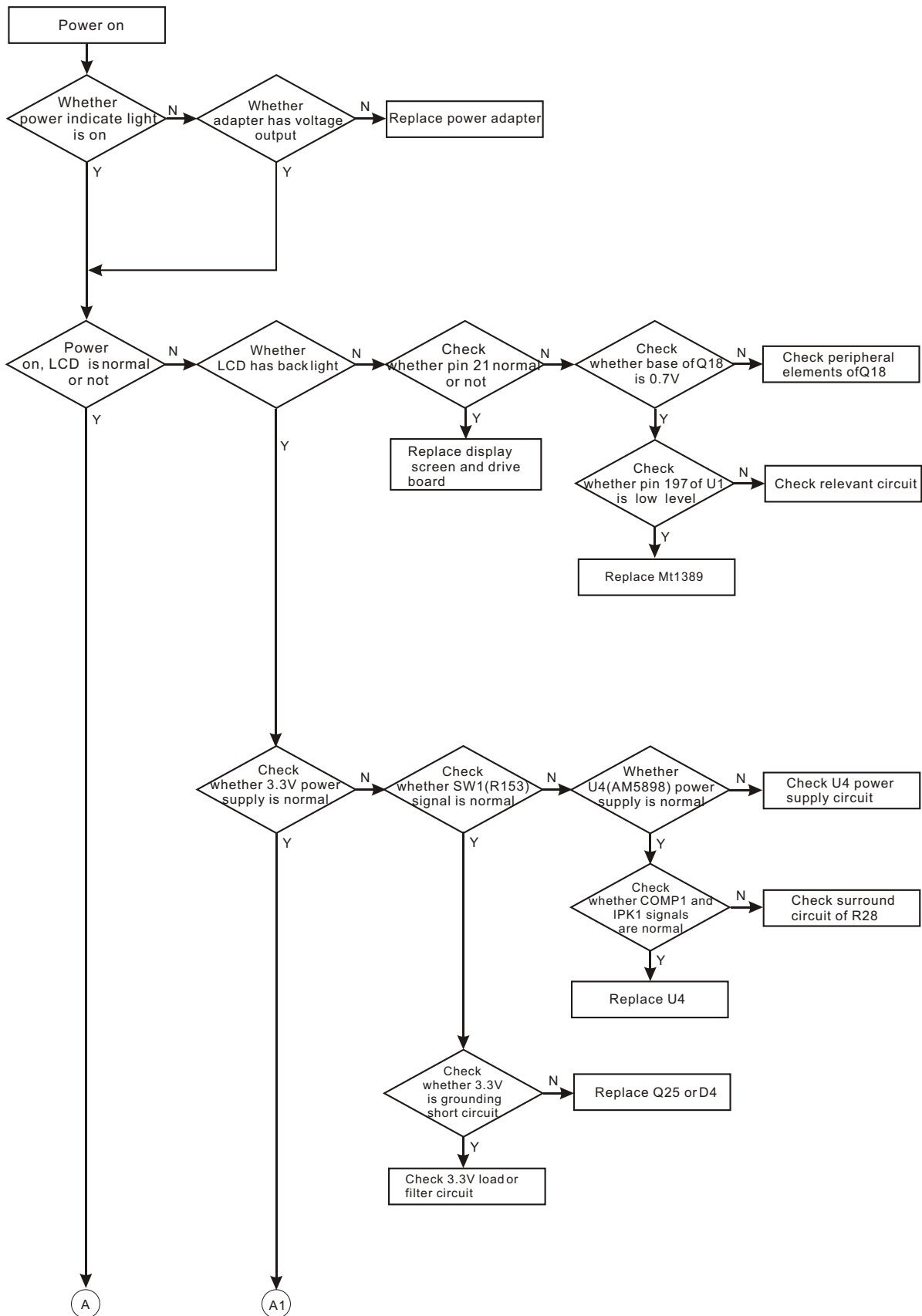
Figure 3.2.4.1 Block diagram of audio circuit

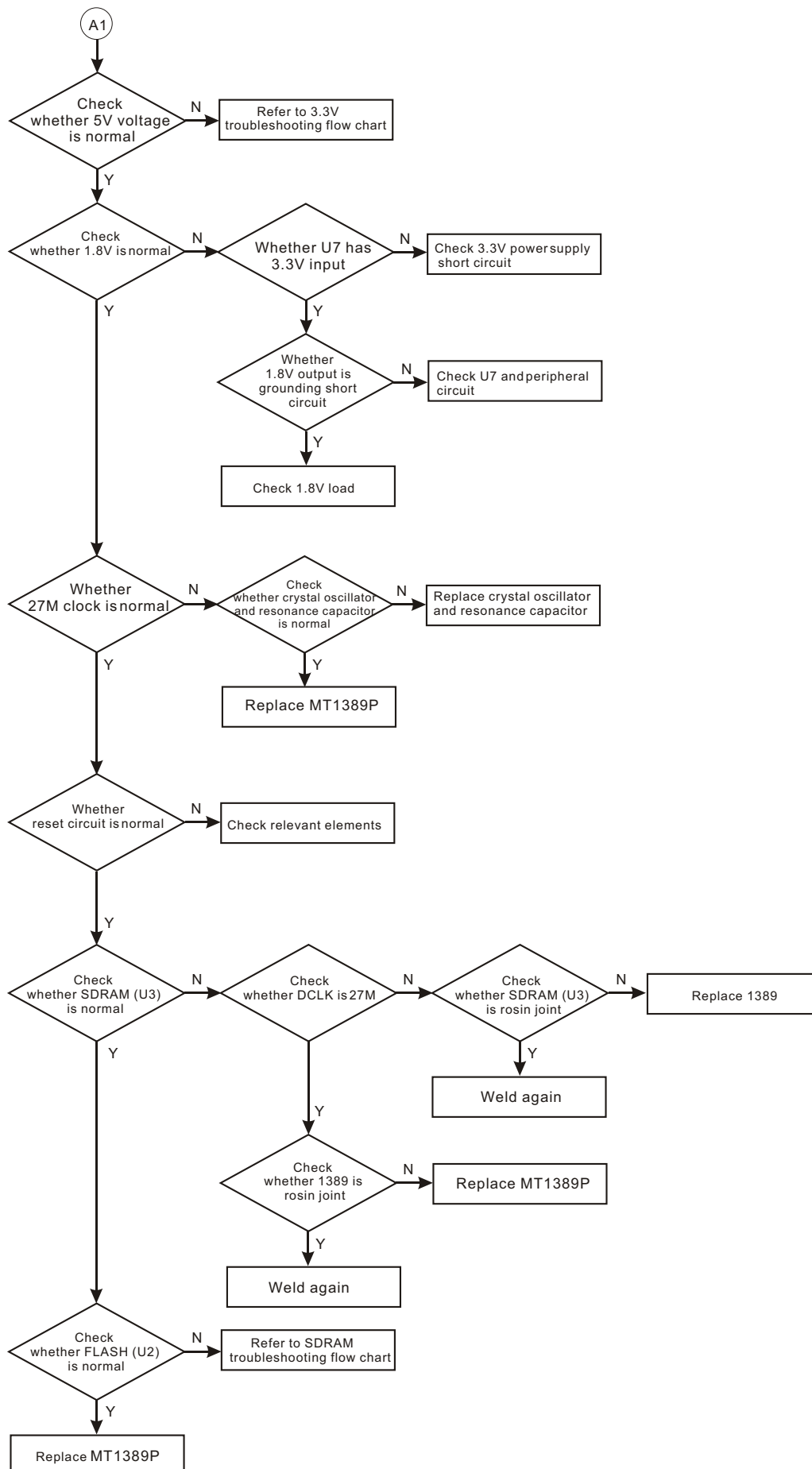
3.2.5 Block diagram of Tuner circuit.

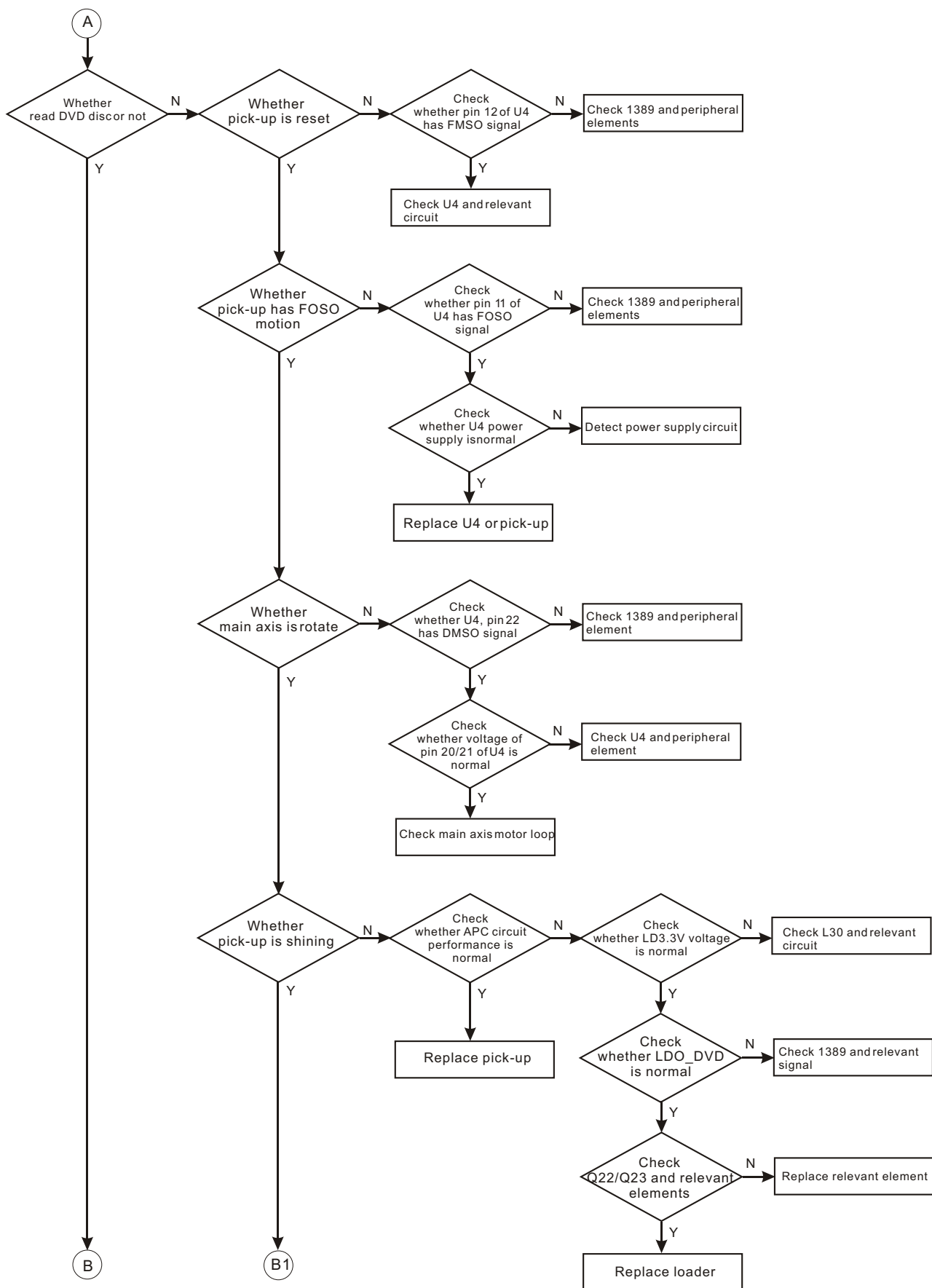
1 TV function is added on this model based on DI370. And TV model mainly adopts MT2130 and TDA9886. MT2310 is a high frequency signal demodulator ; external inputted high frequency TV signal would output IF TV signal after modulated by MT2130, and input to TDA9886 through voice of surface filter to conduct audio/video signals separation, then outputted audio signal and video signal are input to MT1389P through 74HC4053 to handle drive display screen and loudspeaker.

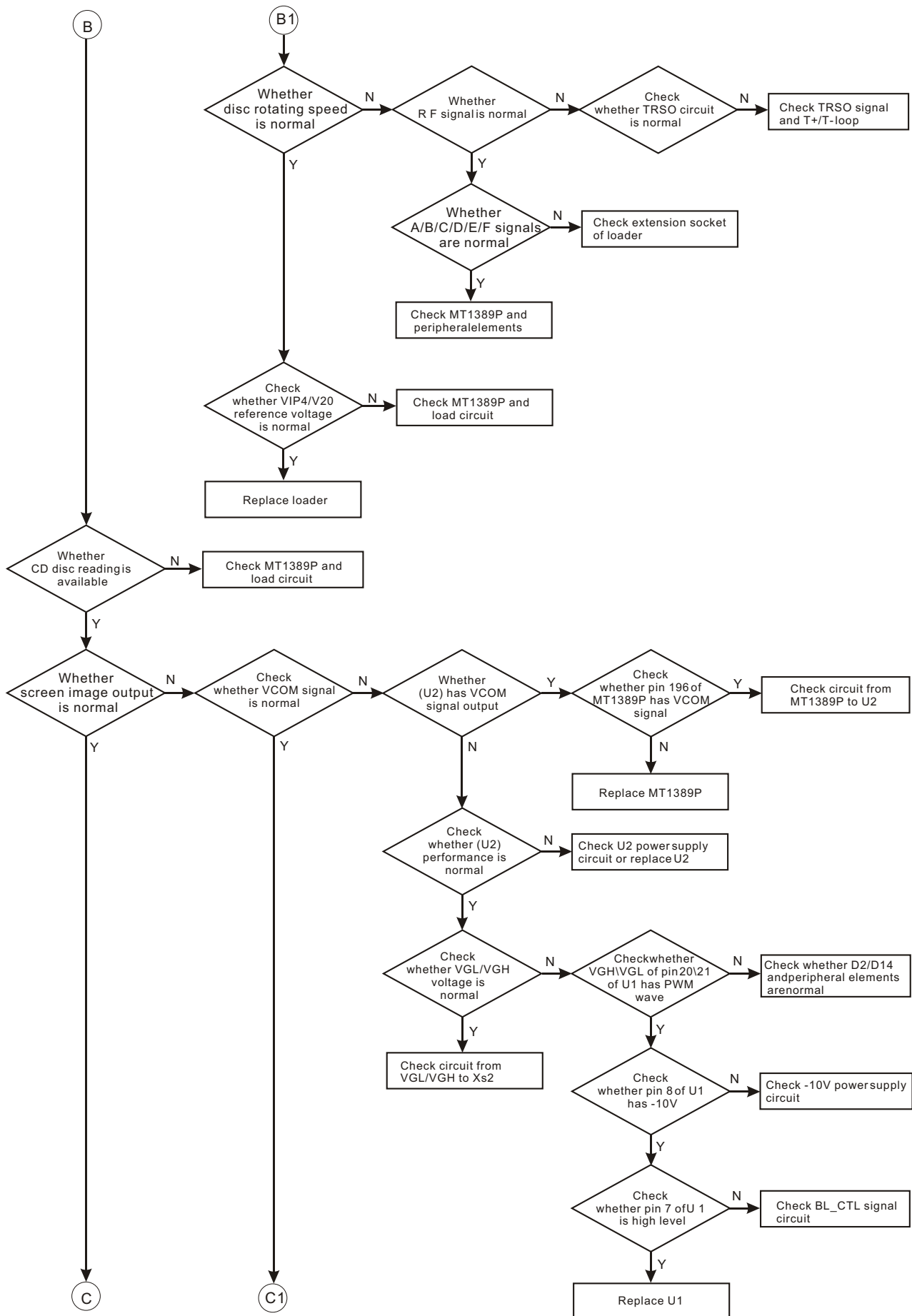


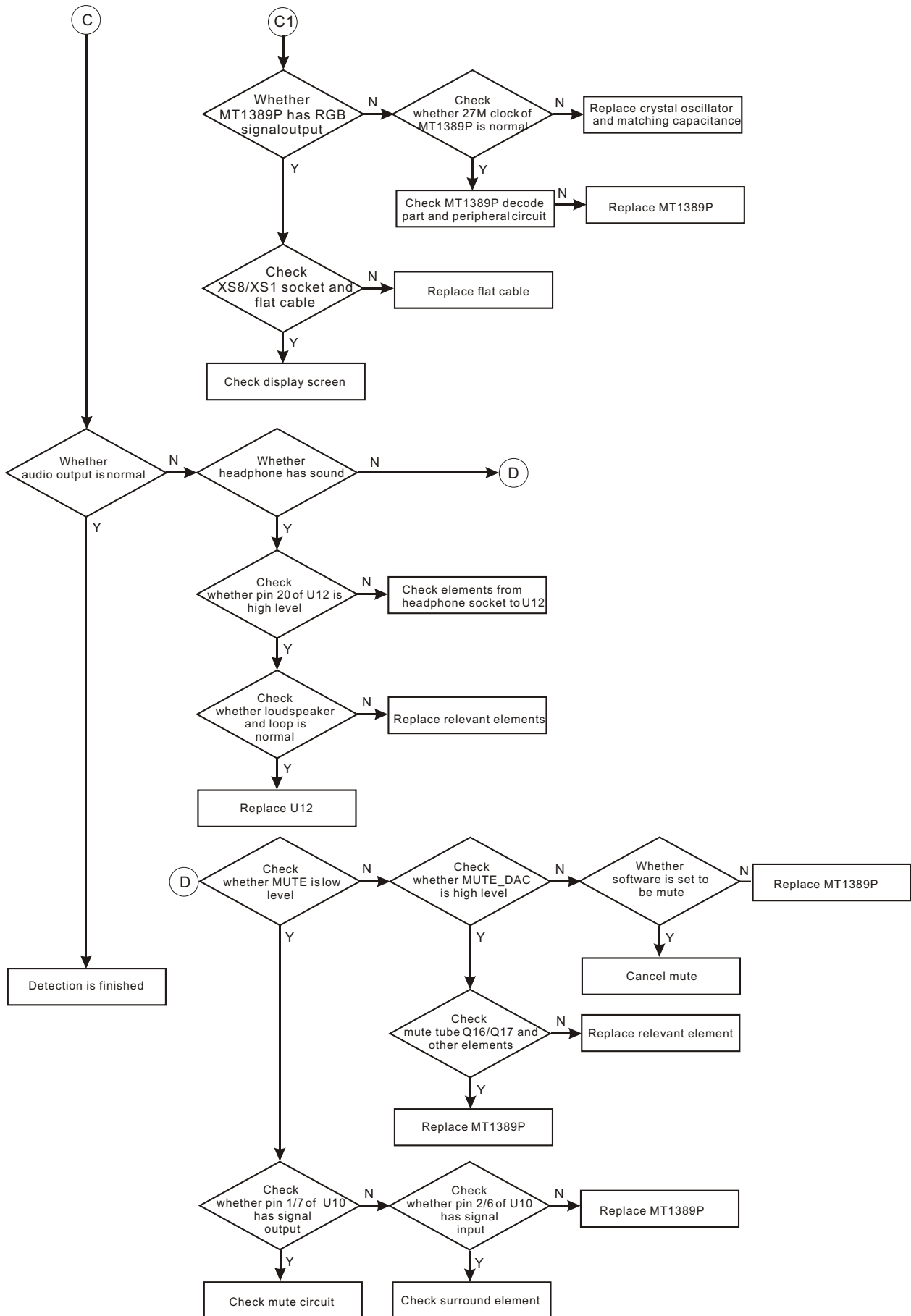
Section Three Troubleshooting Flow Chart







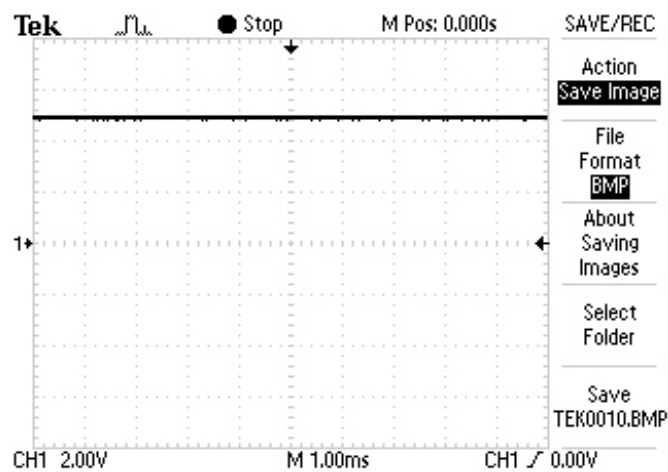




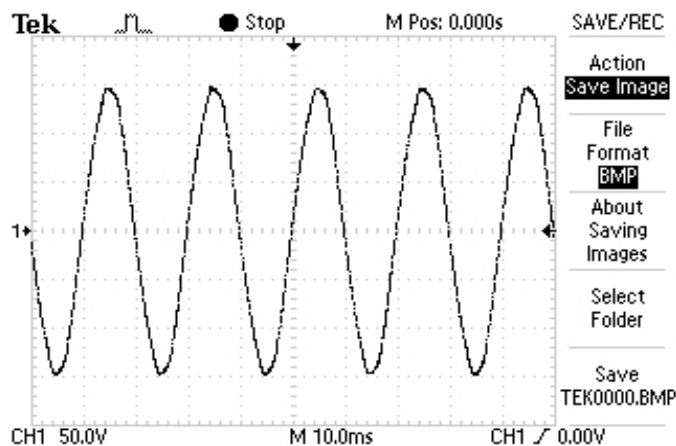
Section Four Servicing Parameters

This section collects signal waveform diagram of audio, video and each unit circuit with the purpose to help servicing personnel to judge where trouble lies in accurately and quickly to improve servicing skills. For the difference of oscillograph's type, model and tuner, a certain difference may exist, so the servicing personnel are expected to pay more attention to check in daily operation.

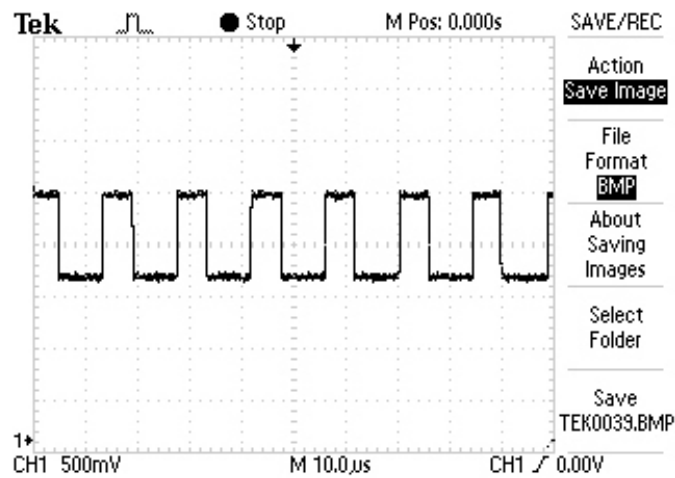
1. Waveform diagram of digital power supply DVD D33.



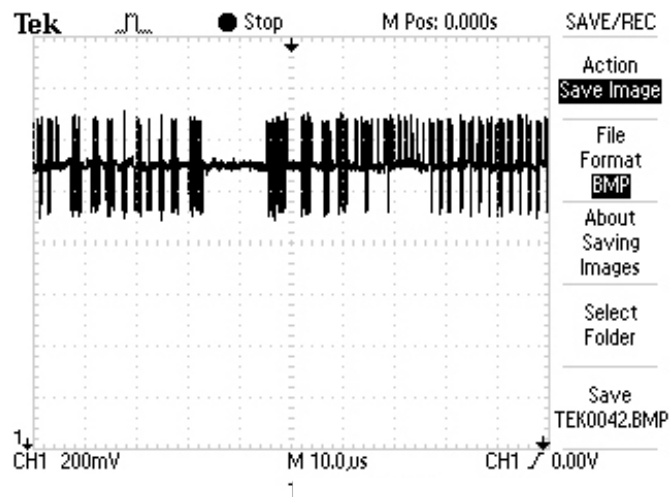
2. 27M(Y2) crystal oscillator of system main clock.



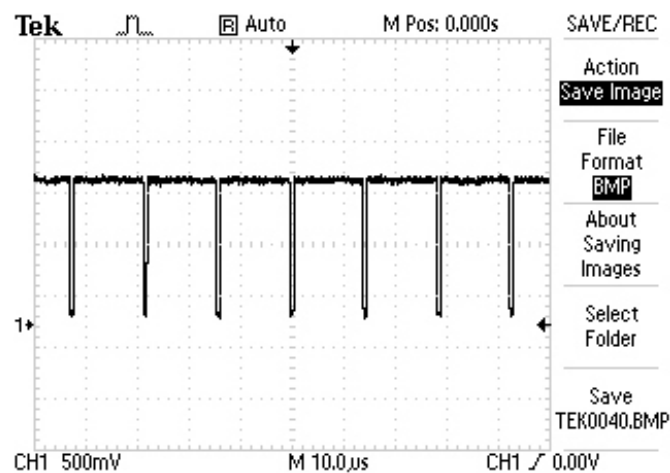
3.DMO waveform diagram output by decode chipMT1389. (when main axis has motion)



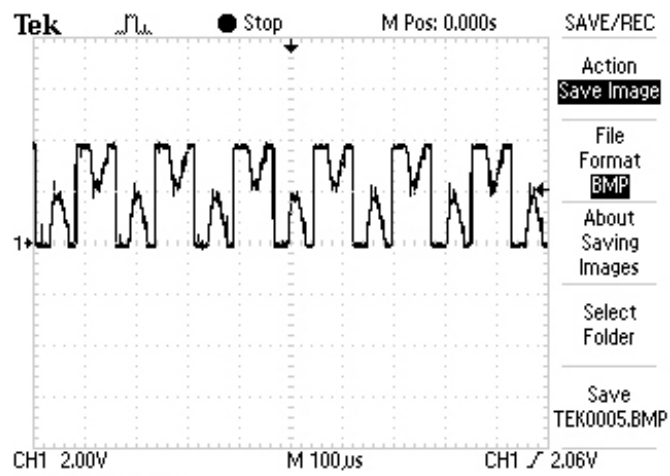
4.FOO waveform diagram output by decode chip MT1389. (When pick-up has focus motion)



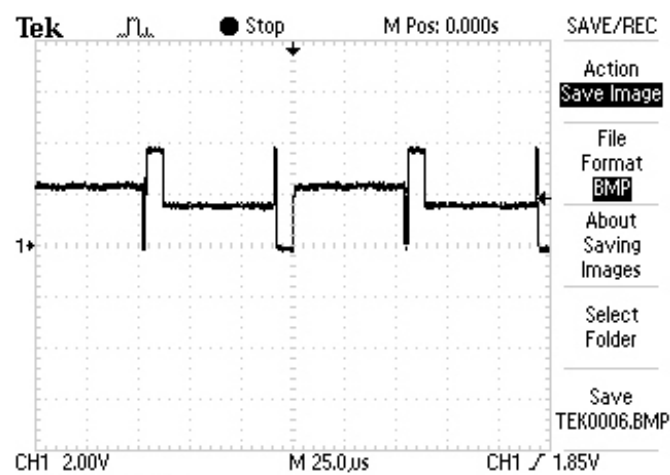
5.FMO waveform diagram output by decode chip MT1389.(when pick-up has focus motion)



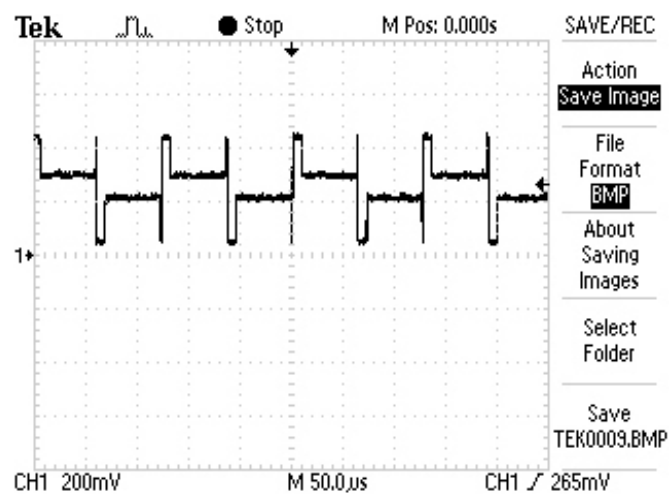
6. Waveform diagram of VB .(pin2 of J7)



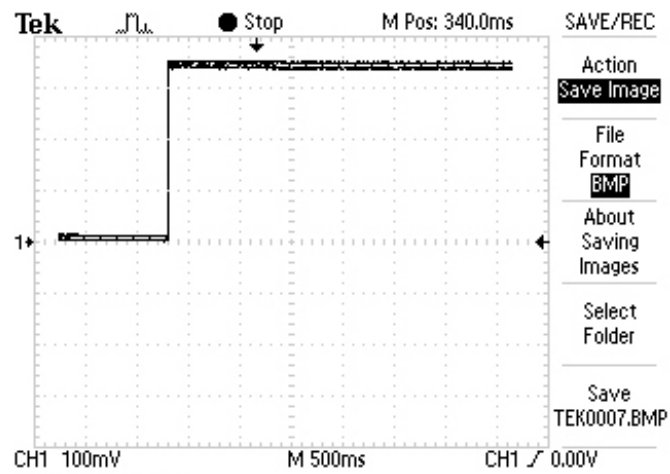
7. waveform diagram of VG(pin 3 of J7) signal.



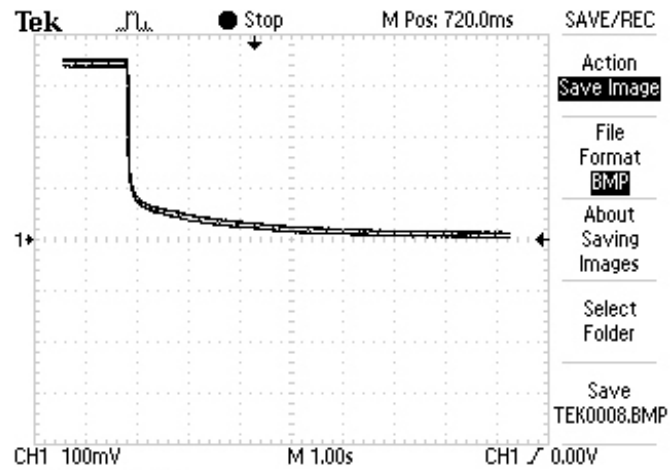
8. Waveform diagram of VR(pin 4 of J7)signal.



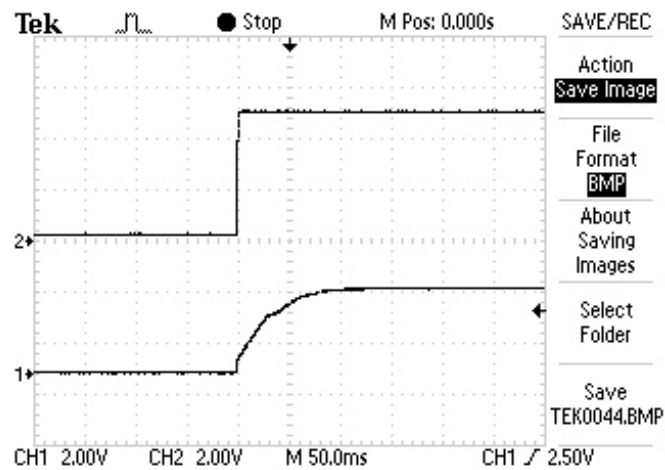
9. Power on waveform diagram of pin 11 of FIsah(U2).



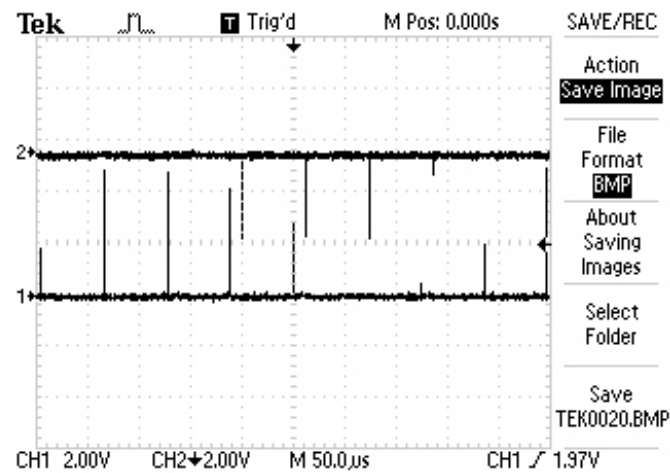
10. Power off waveform diagram of pin 11 of FIsah(U2).



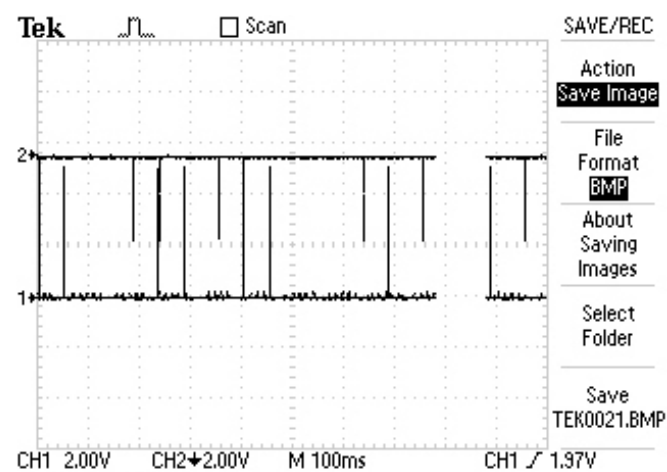
11. URST# waveform diagram of system reset signal.



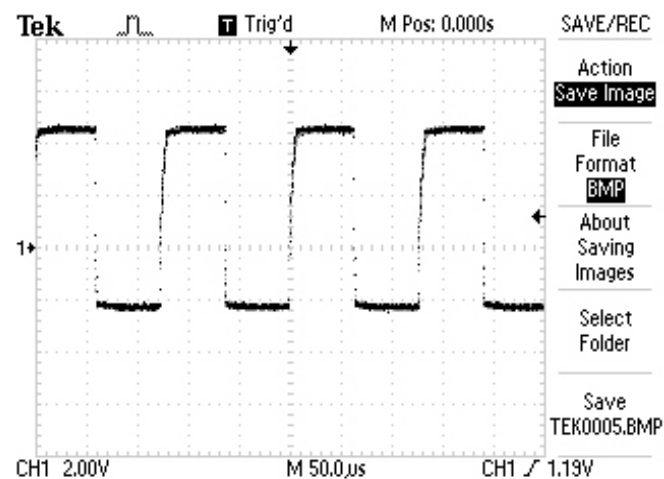
12. Waveform diagram of STH2(pin 12 of J7).



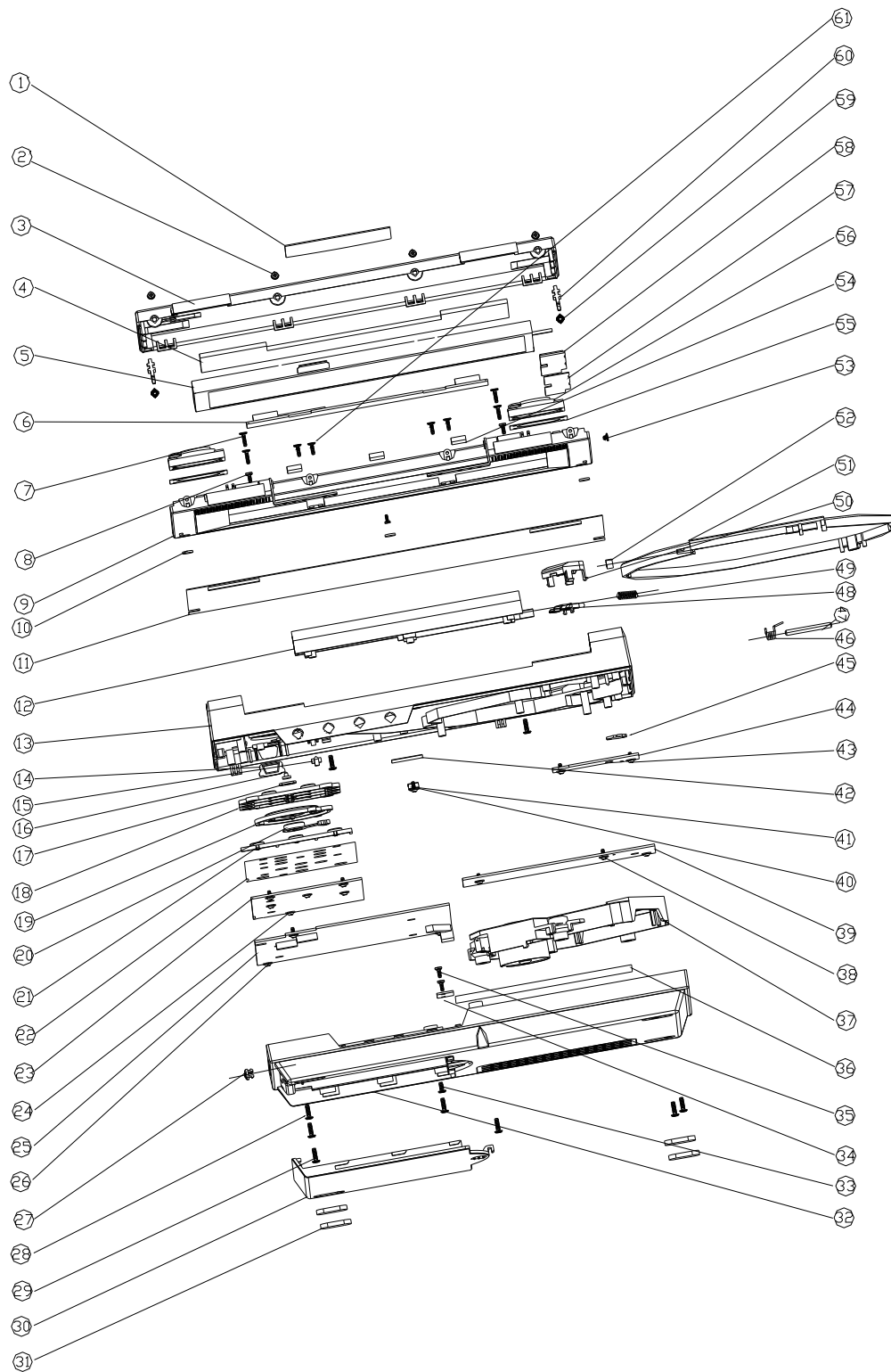
13. Waveform diagram of STV2(pin 18 of J7).



14. Waveform diagram of VCOM (pin 15 of J7).



Chapter Four Explosion Chart



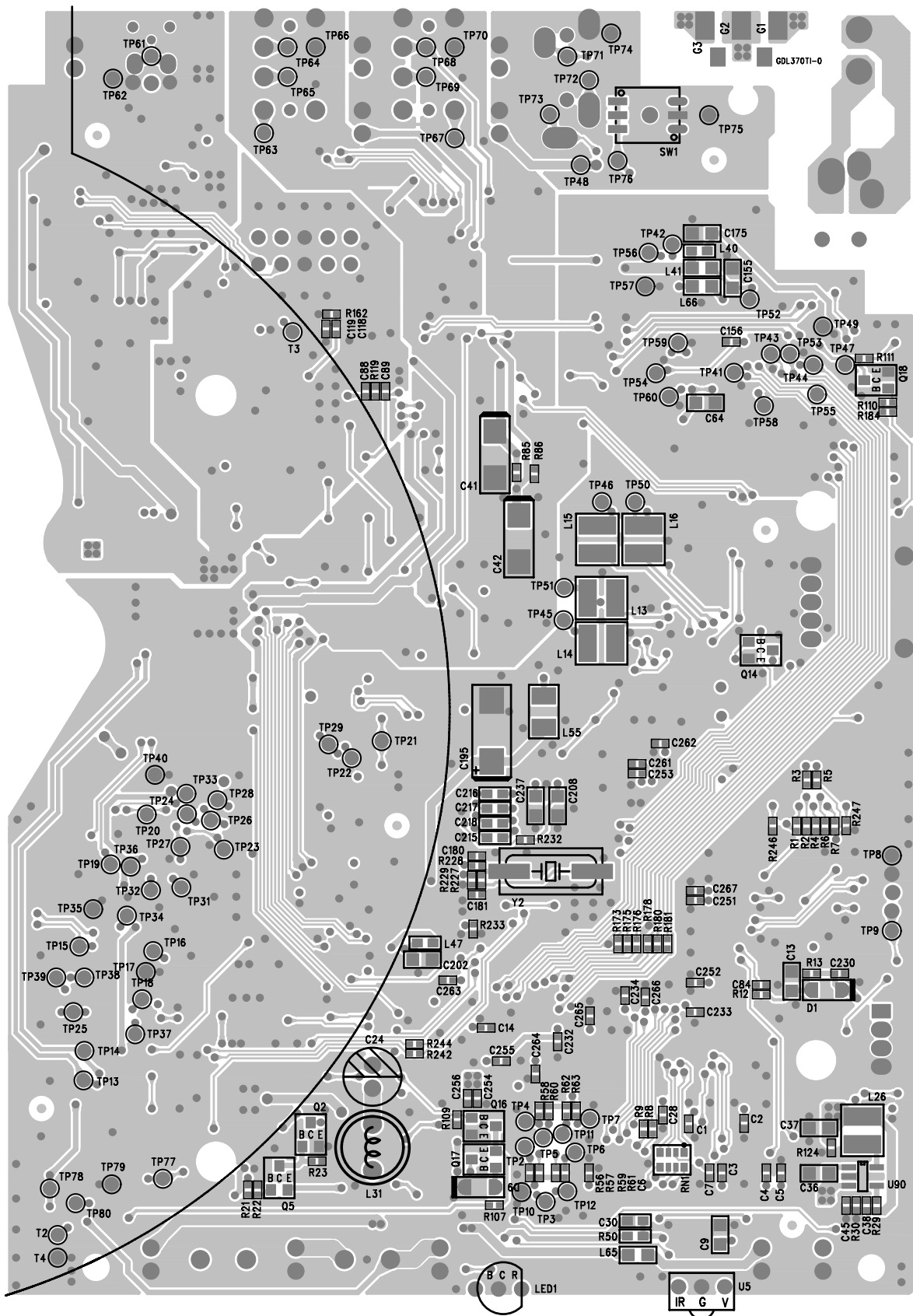
Serial number	Material code	Material name	Specification	Unit	Quantity
1	3060694	PC label	BBK italic DL370TI(RU) mirror	PCS	1
2	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	8
3	3029517	Top cover for display	DL371 sample silvery white oil-painting	PCS	1
5	1200860	Display screen	TFT-A070FW03V7	PCS	1
6	4941793	PCB Semi-manufactured product	CDL370TI-0 DL370TI(RU)	PCS	1
7	4000481	Self-tapping screw	CB 1.7×6H nickel	PCS	4
8	4000355	Self-tapping screw	PB 1.7×4 nickel	PCS	2
9	3076312	Lower cover of display	DL370TI(RU) silvery white	PCS	1
10	5234077	Screw plug	Φ5×0.8 silvery gray silica gel single-sided glue on rear side	PCS	2
11	5234075	PET sheet	203×133 DL375 transparent	PCS	1
13	3005802	Surface case	DL370TI(RU) silvery white	PCS	1
14	3027250	Lens of remote control	DL373 purple	PCS	1
15	3027255	Light lens	DL373	PCS	1
16	3029523	Detective switch cap	DL371 silvery white 2#	PCS	1
17	3027253	Detective switch cover	DL373	PCS	1
18	3076399	6-direction button	DL371 silvery oil-painting	PCS	1
19	3076398	4-direction cursor button	DL371 silvery oil-painting	PCS	1
20	3076397	Middle button	DL371 silvery oil-painting	PCS	1
21	3076396	3-direction button	DL375K silvery oil-painting	PCS	1
22	1340310	Film switch	DL370TI(RU)(14-direction)	PCS	1
23	4941789	PCB semi-manufactured product	4DL370TI-0 DL370TI(RU)	PCS	1
25	4941795	PCB semi-manufactured product	2DL370TI-0 DL370TI(RU)	PCS	1
26	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	8
27	3029521	Pushing button for power supply	DL371 silvery white 2#	PCS	1
28	4000522	Self-tapping screw	CB 2×6H white nickel	PCS	7
29	4000522	Self-tapping screw	CB 2×6H white nickel	PCS	7
30	3072236	Battery gate	DL370D(RU) black	PCS	1
31	5233464	Feet spacer	14.8×6.8×2 silica gel	PCS	4
32	3013200	Bottom case	DL370TI(RU) black	PCS	1
33	4000553	Self-tapping screw	CB 2×4H white nickel	PCS	1
34	1635029	PCB	CDL370TI-0 FR4 D1.0 PX	PCS	1

Serial number	Material code	Material name	Specification	Unit	Quantity
35	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	1
36	5233157	Dust-shielded net	86×38×0.1	PCS	1
37	5462561	Loader component	DM-520XB(SV1 pick-up)	PCS	1
38	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	1
39	1635032	PCB	BDL370TI-0 FR4 D1.0 PX	PCS	1
40	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	1
41	3871079	Cam button	DL371	PCS	1
42	5232372	PVC sheet	32×12×0.4 single-sided glue on rear side	PCS	1
43	4000360	Self-tapping screw	PWB 1.7×3.5 nickel	PCS	1
44	1635028	PCB	5DL370TI-0 FR4 D1.0 PX	PCS	1
45	3027253	Defective switch cover	DL373	PCS	1
46	3810044	Tray-open spring	DL373 L=14mm	PCS	1
47	3870792	Rotating shaft	Φ2.5×22.5 DL373	PCS	1
48	3070717	Tray-open pole	DL373 2#	PCS	1
49	3820054	Spring for tray cover	DL373	PCS	1
50	3070717	Tray-open pole	DL373 2#	PCS	1
51	3820054	Spring for tray cover	DL373	PCS	1
52	3028943	Cam	DL371 silvery white	PCS	1
54	5231674	Loudspeaker pad made by flanne	DL333 single-sided glue on rear side	PCS	2
55	5231073	soft pad made by sponge	15×7×2 double-sided hard	PCS	3
56	1100264	Loudspeaker	1.0W 8Ω external magnetic 27×19×6.8	PCS	2
59	3810080	Bard spring	Φ3.6×12 Φ0.35	PCS	
60	3027247	Barb	DL373	PCS	2
61	4000364	Self-tapping screw	CB 1.7×5H nickel	PCS	4

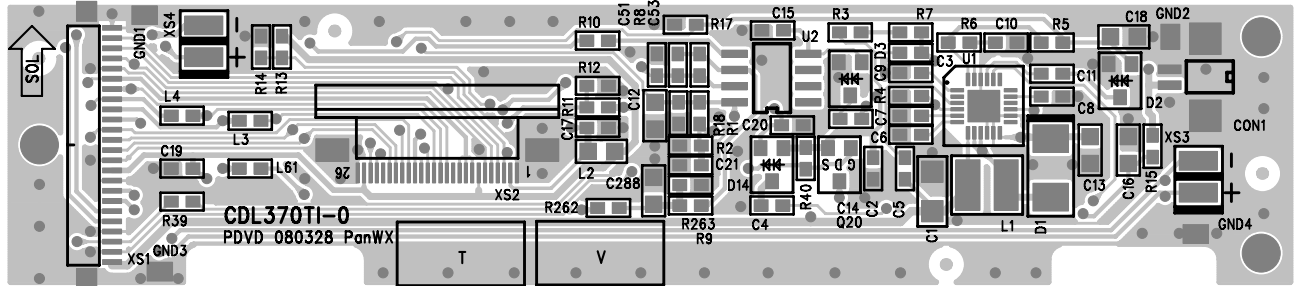
5.1.1 Top layer of Decode Board(2DL370TI-0)



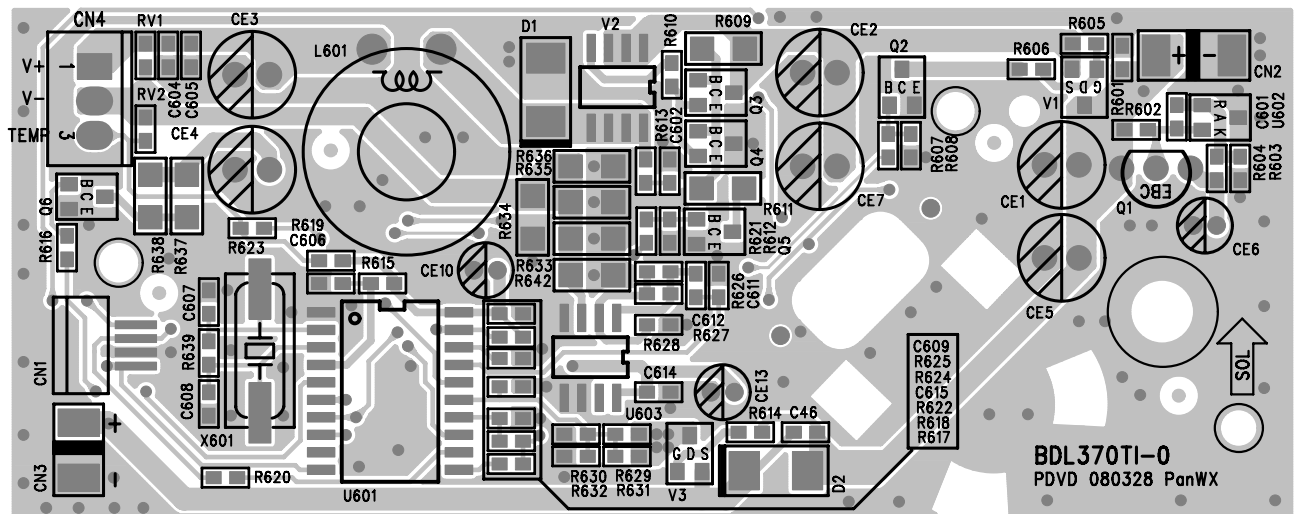
5.1.2 Bottom layer of Decode Board(2DL370TI-0)



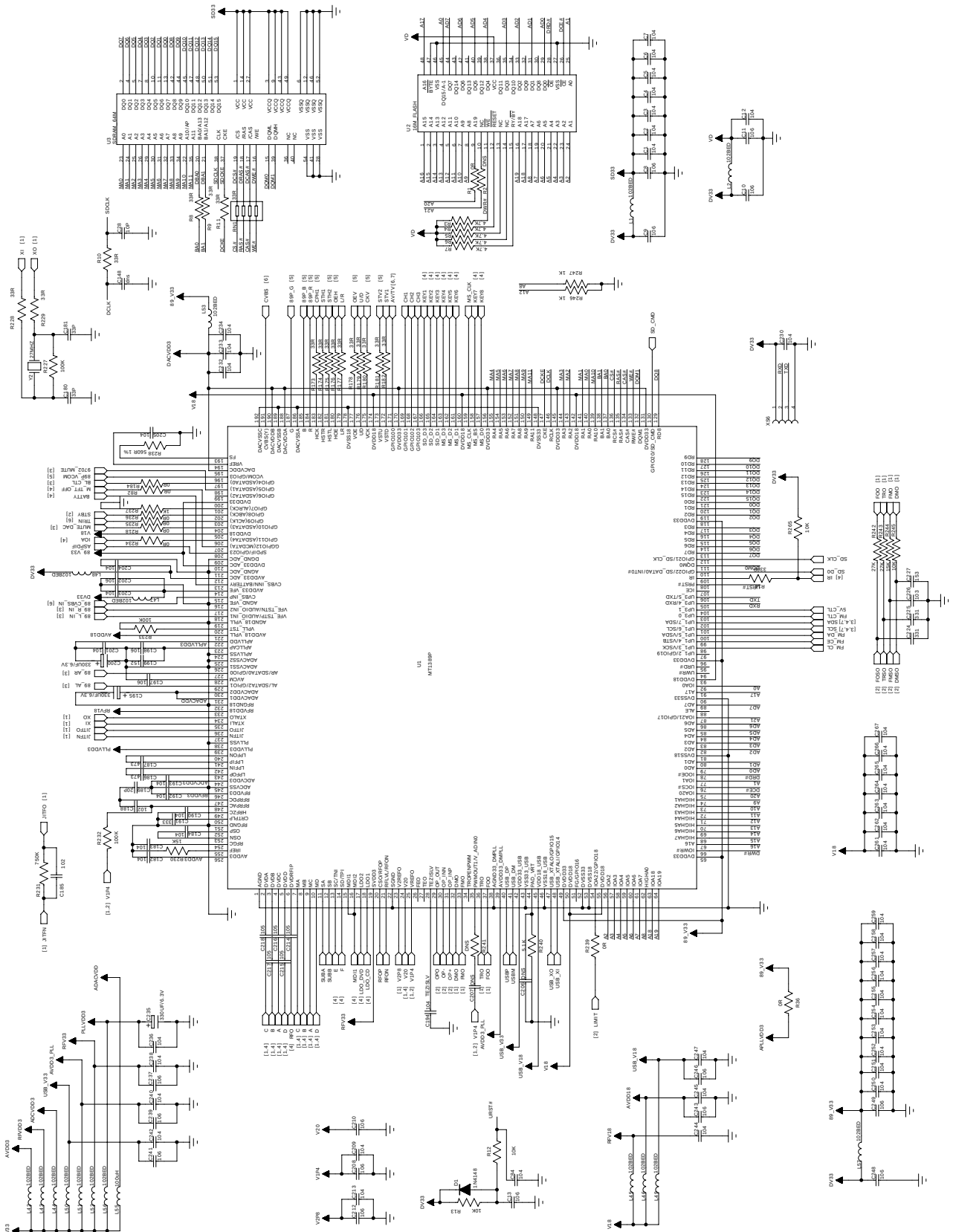
5.1.3 Top layer of driving board (CDL370TI-0)

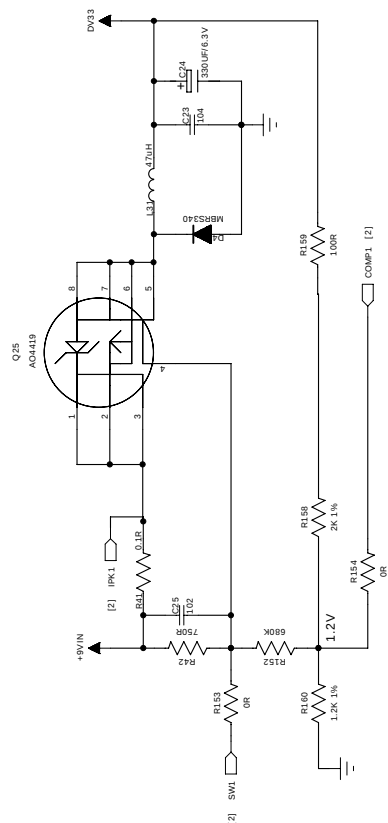
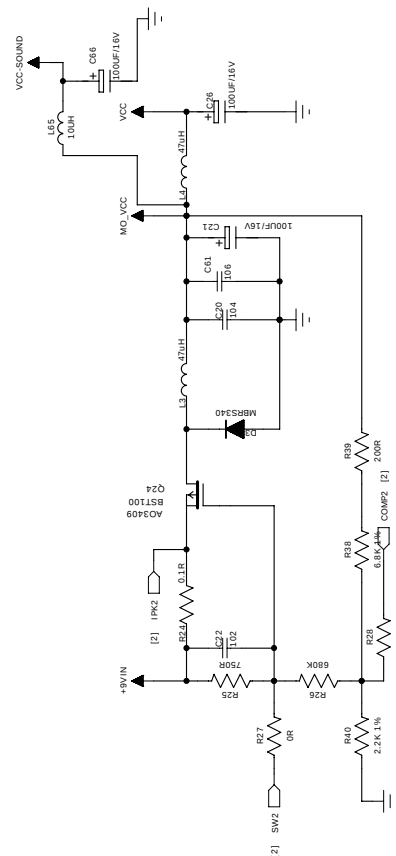
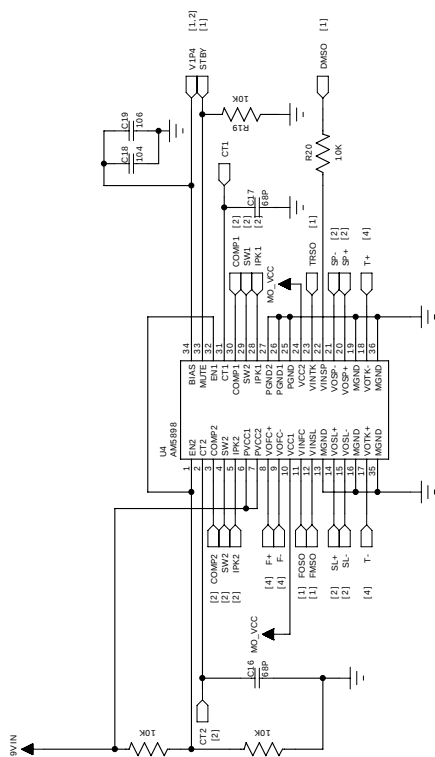
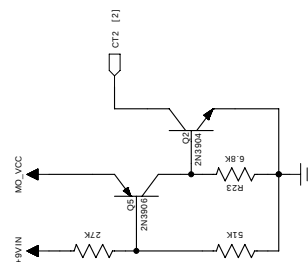
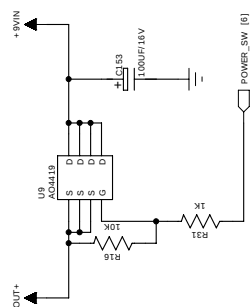
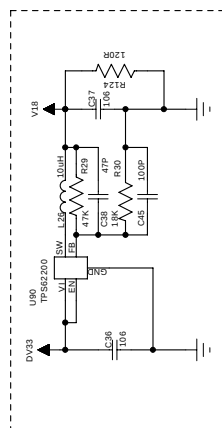
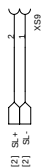


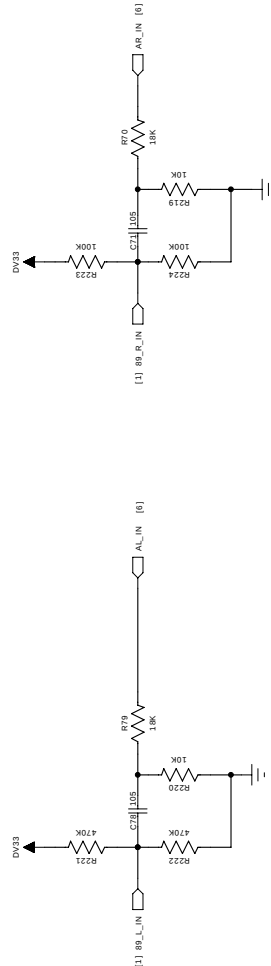
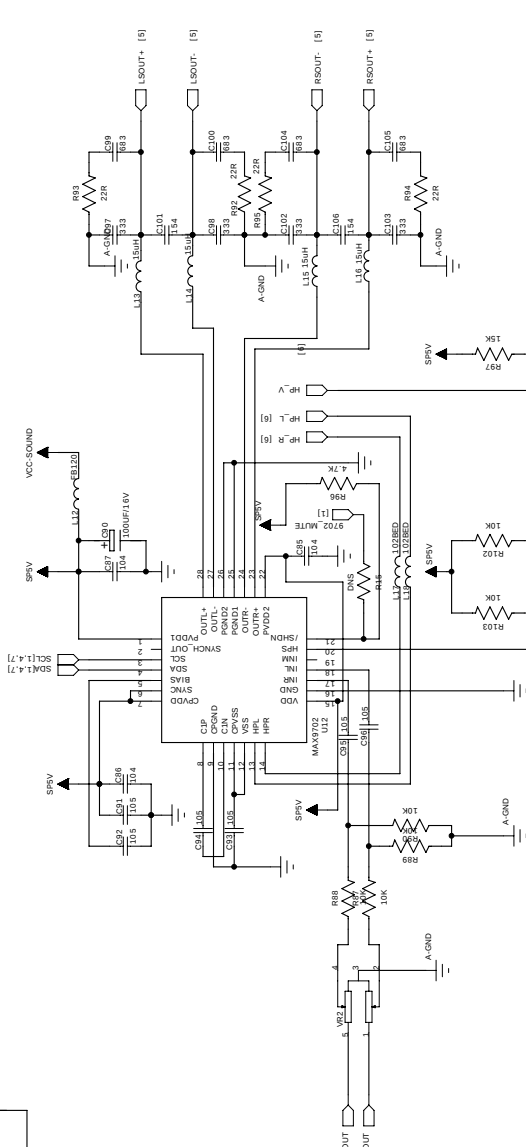
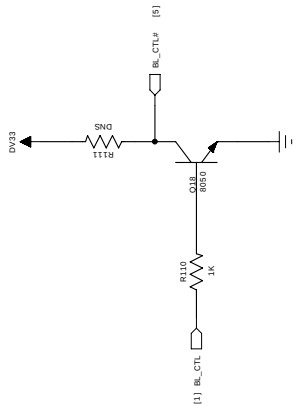
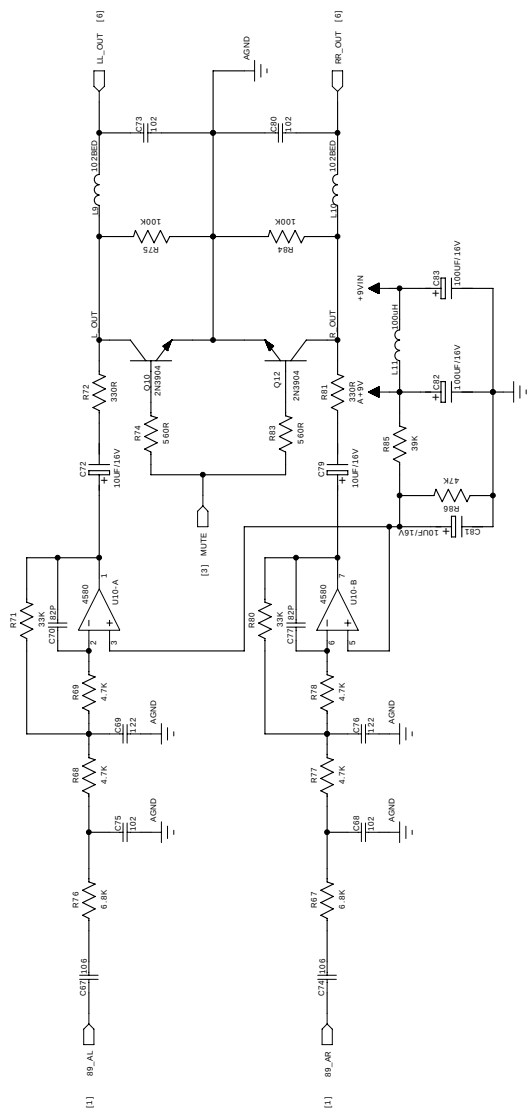
5.1.4 Top layer of charging board for batterg (BDL370TI-0)



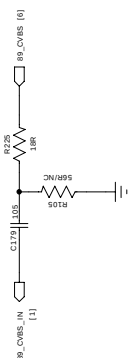
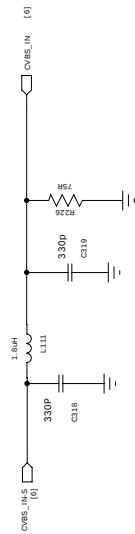
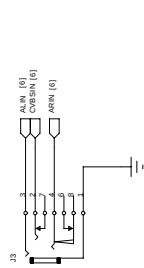
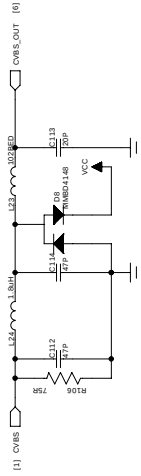
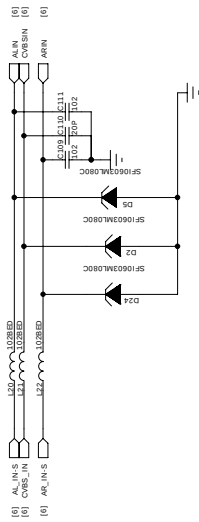
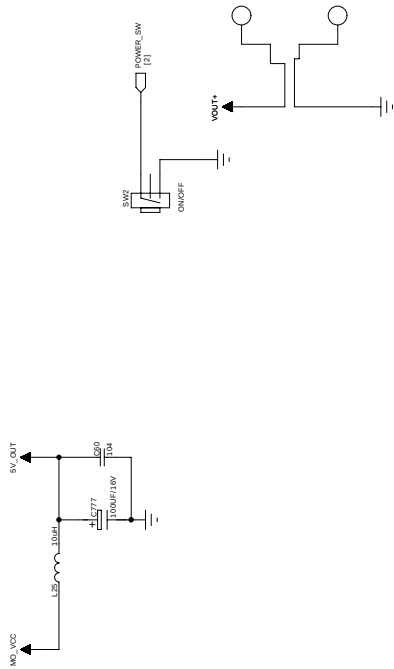
5.2.1 Decode Board.



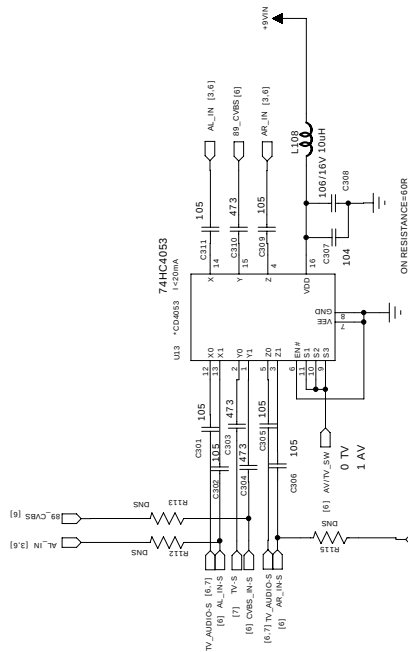
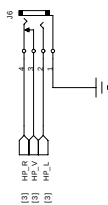




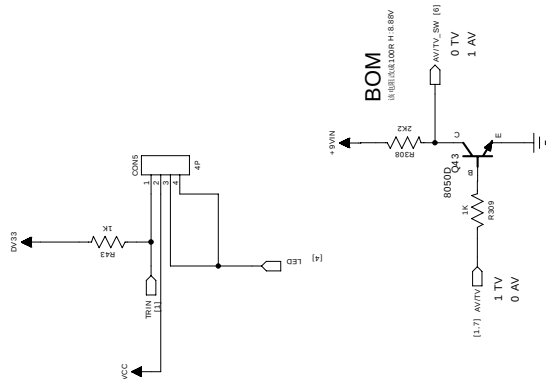
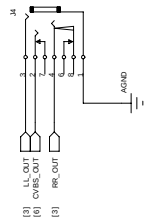
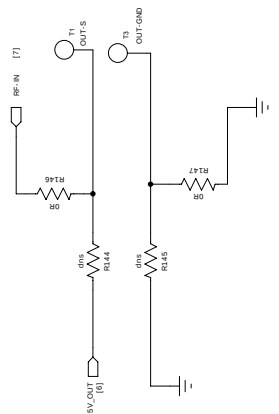




DIFFERENTIAL: C179X, M73, R10556R

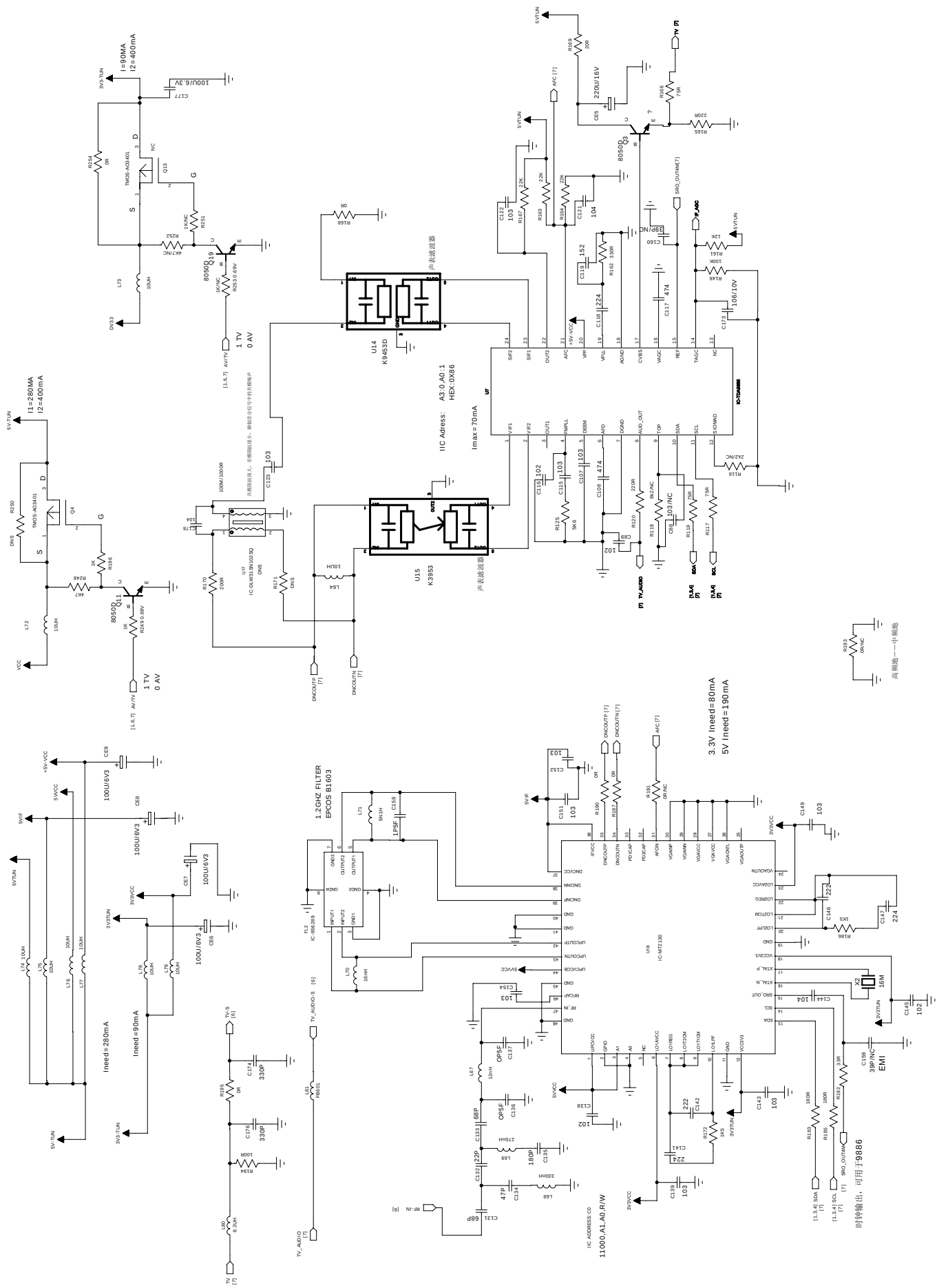


ON RESISTANCE=60R

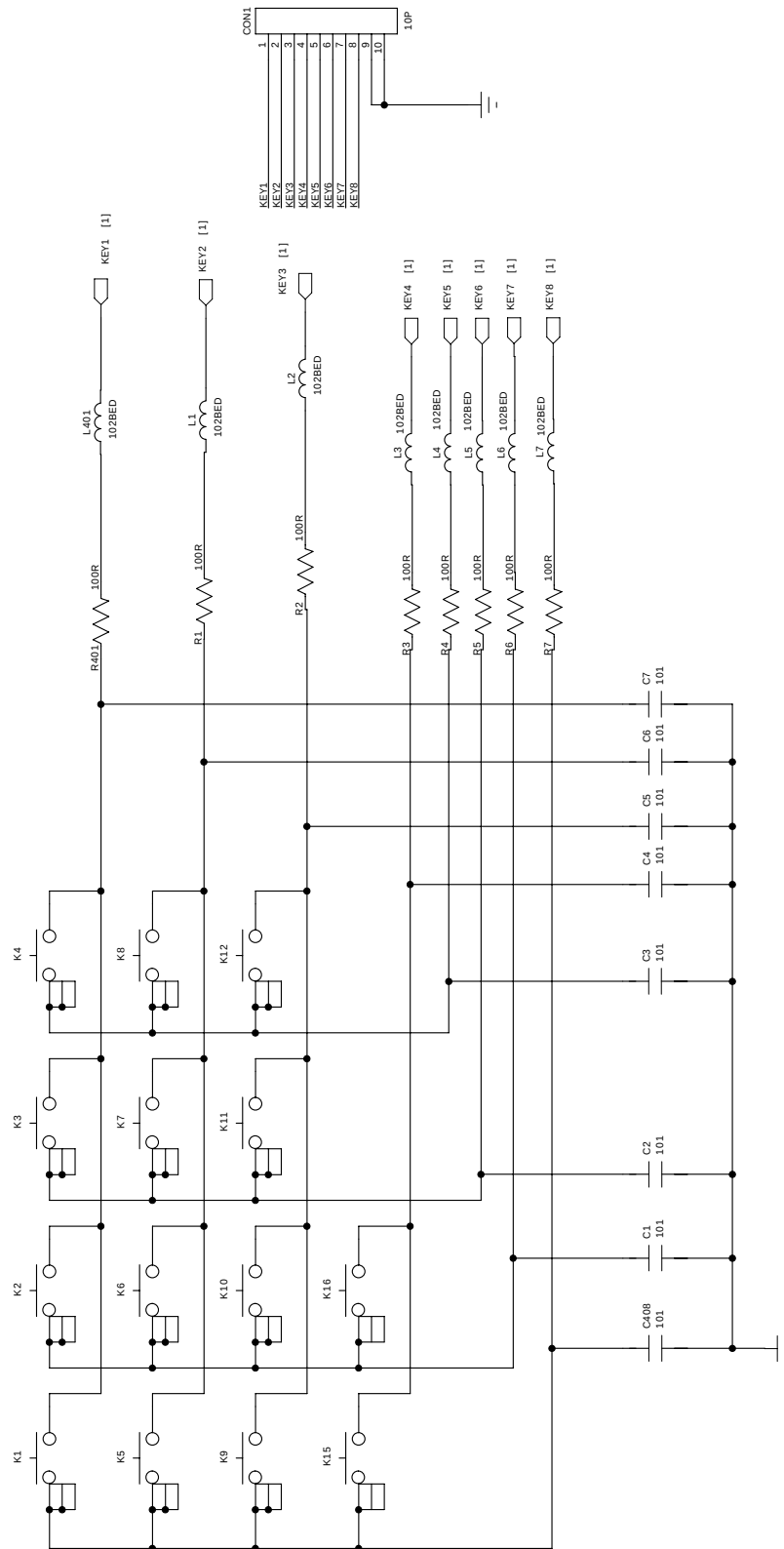


BOM

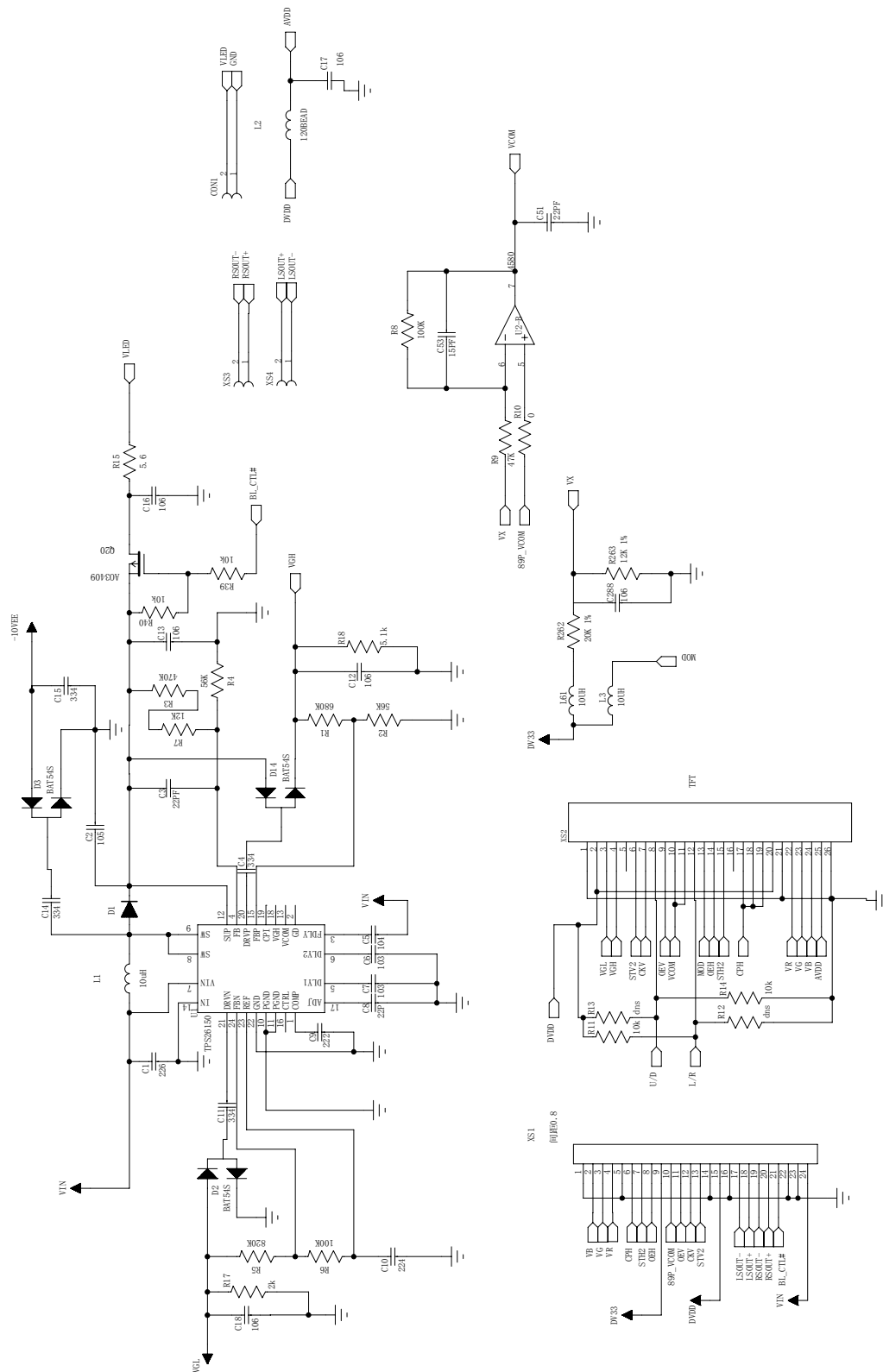
80550D-3 1K 1TV 0AV



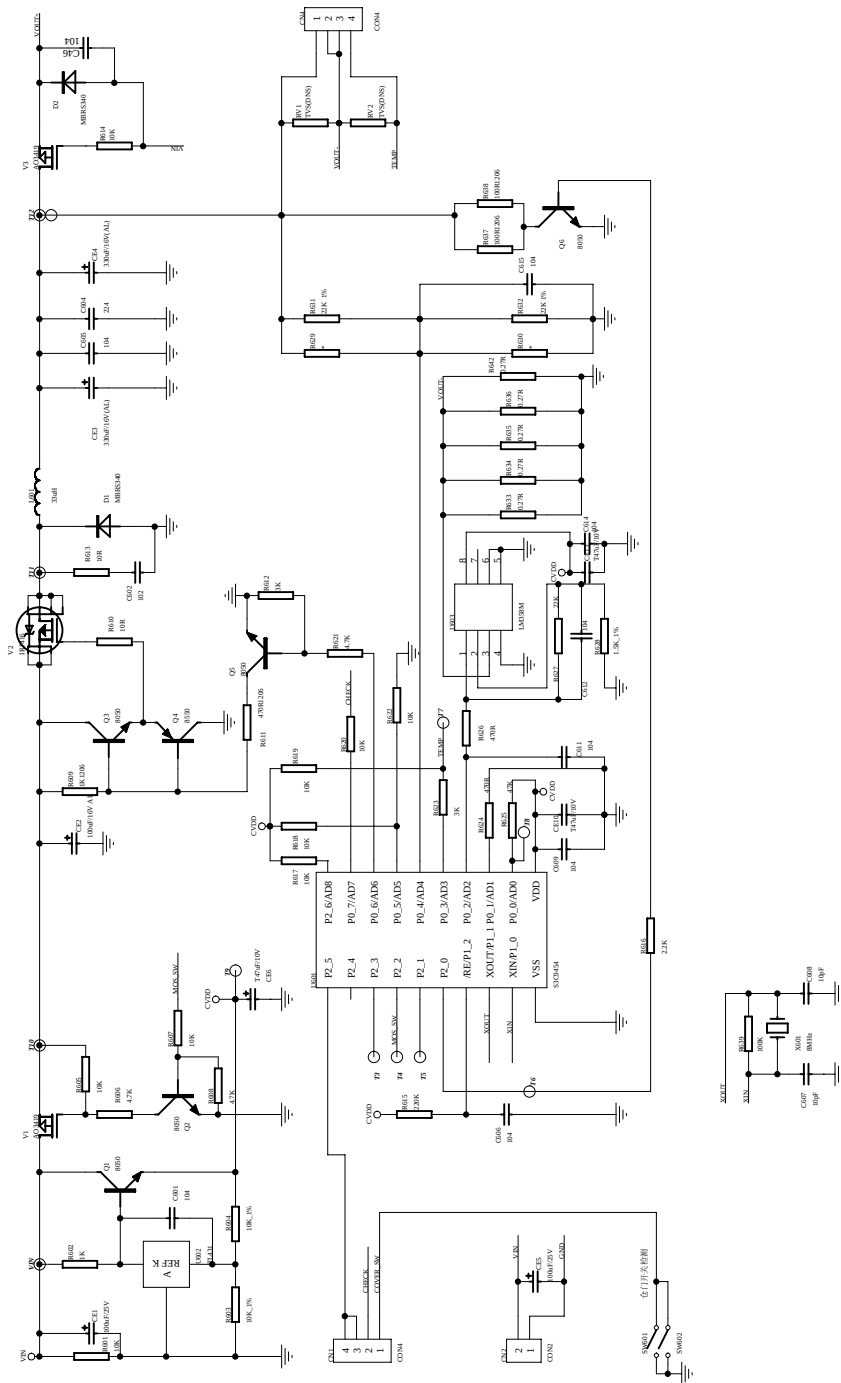
5.2.2 Main Panel.



5.2.3 Driving Board .



5.2.4 Charging Board for battery .



Chapter Six BOM List

DL370TI(RU)-4 SILVER WHITE(1389P)

REMOTE CONTROL 5471806

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090272	SMD RESISTOR	1/16W 1Ω±5% 0603	R801
0310048	SMD CAPACITOR	50V 151±5% NPO 0603	C802,C803
0630010	EMISSION PIPE	LTE-4206	LED801
0700001	SMD DIODE	LS4148	D801~D803
0780130	SMD TRIODE	STC3265	Q801
0880220	IC	P2222 SOP	U801
0970003	CERAMIC RESONATOR	455E	X801
1564324	PCB	8516SI-3	
3032209	SURFACE CASING O REMOTE CONTROL	RC026-18R BLACK	
3041399	BOTTOM CASING OF REMOTE CONTROL	026 BLACK 2#	
3051273	GLASS OF REMOTE CONTROLLER	026 MING PURPLE	
3051319	BATTERY CASE DOOR OF REMOTE CONTROL	026 BLACK 2#	
3850124	ANODE SPRING	RC026	
3850125	CATHODE SPRING	RC026	
3850126	ANODE/CATHODE SPRING	RC026	
4000038	SELF-TAPPING SCREW	PB 2.3×6 COLOR ZINC	FOR CONNECTING UPPER/LOWER COVER
4631316	CONDUCT GLUE OF REMOTE CONTROL	RC026-18R	
5070070	PLASTIC BAG	85×250	

DL370TI(RU)-4 SILVER WHITE(1389P)

BATTERY CONNECTOR PLATE BOARD E371-3 5446634

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1632077	PCB	E371-3	
3630280	BATTERY CONNECTOR PLATE	371 GILD	

DL370TI(RU)-4 SILVER WHITE(1389P)

BATTERY PROTECT BOARD D375K-2 5448114

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090014	SMD RESISTOR	1/16W 1K±5% 0603	RB1,RB3,RB4,RB5
0090233	SMD RESISTOR	1/16W 4.7MΩ±5% 0603	RB2
0310219	SMD CAPACITOR	16V 106 +80%-20% 1206	CB6
0310594	SMD CAPACITOR	25V 104±10% 0603	CB1,CB2,CB3,CB4,CB5 ①
0310543	SMD CAPACITOR	50V 104±10% 7R 0603	CB1,CB2,CB3,CB4,CB5 ①
0790040	FIELD EFFECT TRANSISTOR	UP1870 SSOP	QB1
0881941	IC	S8232AUFT TSSOP	UB1
1632920	PCB	D3752	
2300023	SMD FUSE	3AL 125V	FB1
5140257	VERSION LABEL	2.0 SQUARE	

DL370TI(RU)-4 SILVER WHITE(1389P)

CAR POWER LINKER D333S-0 5472106

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0000283	CARBON FILM RESISTOR	1/4W1K±5% SHAPED 10	R1
0620184	LIGHT-EMITTING DIODE	3O 3PD ORANGE	VD2
0680065	SCHOTTKY DIODE	SR560 DO-27 SHAPED 20mm	VD1,VD3
1632718	PCB	D333S-0	
2110002	LEAD	24# 30mm RED	
2110004	LEAD	24# 40mm BLACK	
2140367	POWER CONNECTING WIRE	2P 2m WITH Φ4.0DC CURVE PLUG	P+,P-
2300018	FUSE	3.15AL 250V (VDE/UL)	
3031156	UPPER COVER OF CAR POWER CONNECTING CASE	008 BLACK	
3040843	LOWER COVER OF CAR POWER CONNECTING CASE	008 BLACK	
3060670	TOUCH HEAD COVER	008(RU)BLACK	
3630186	SHRAPNEL	8	
3810034	SPRING	8	
3870754	SPACER	8	
3870756	FUSE HOLDER	8	

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
3872547	TOUCH HEAD	008(RU)	
5071052	DOUBLE-FACE GAS BEAD BAG	120×350	
5232167	FIBRE SLEEVE	Φ1 WHITE	
5232168	DUST-PROOF NET	008 BLACK	

DL370TI(RU)-4 SILVER WHITE(1389P)

POWER ADAPTER 5472143

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
3032041	UPPER COVER OF POWER CASE	021 BLACK	
3041506	BOTTOM COVER OF POWER CASE	021 BLACK	
3051356	INDICATOR LIGHT MANTLE O POWER CASE	021 TRANSPARENCE	
4000119	SELF-TAPPING SCREW	PB 3×8 WHITE	
4941311	PCB SEMI-FINISHED PRODUCT	5 021-2 376SI(RU)	
5231264	FOOT SPACER	φ7×1 RUBBER	
5235873	PVC PIECE	20×15×0.2 WHITE SINGLE-FACED WITH GLUE IN REAR SIDE	

DL370TI(RU)-4 SILVER WHITE(1389P)

POWER BOARD @5AK021-2 CQC 4941311

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090050	SMD RESISTOR	1/10W 1K±5% 0805	R16
0090052	SMD RESISTOR	1/10W 2.2K±5% 0805	R8,R17
0090054	SMD RESISTOR	1/10W 3K±5% 0805	R5
0090057	SMD RESISTOR	1/10W 4.7K±5% 0805	R18
0090063	SMD RESISTOR	1/10W 10K±5% 0805	R15
0090125	SMD RESISTOR	1/8W 22Ω±5% 1206	R10,R11
0090653	SMD RESISTOR	1/8W 2K±5% 1206	R6, R9
0090750	SMD RESISTOR	1/8W 680K±5% 1206	R1,R2
0090777	PRECISION SMD RESISTOR	1/101.2K±1% 0805	R13
0090778	PRECISION SMD RESISTOR	1/10430Ω±1% 0805	R14
0090816	SMD RESISTOR	1/447K±5% 1206	R4

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090817	SMD RESISTOR	1/439K±5% 1206	R3
0090819	SMD RESISTOR	1/4240K±5% 1206	R5A,R5B,R6A,R6B
0090907	PRECISION SMD RESISTOR	1/10W12Ω±1% 0805	R7
0200166	PORCELAIN CAPACITOR	500V 103±20% 5mm	C3
0200232	PORCELAIN CAPACITOR	500V 101±10% 5mm	C10
0200277	CERAMIC CAPACITOR	1000V222±20% SHAPED 7.5mm	C5
0200341	CERAMIC CAPACITOR	C81 250VAC 102±20% 10mm	C17,C2
0210245	TERYLENE CAPACITOR	@275V 334±20% 15MM CQC	C1
0260790	CD	CD11 105℃ 50V47U M 6×12 2.5	C8
0260792	CD	GS 105℃ 400V47U M 16×25 7.5	C4
0260794	CD	CD288H 25V1000U±20%10×16 5	C11,C12
0310037	SMD CAPACITOR	50V 104±20% 0805	C13,C15
0310092	SMD CAPACITOR	50V 103±20% 7R 0805	C14
0310182	SMD CAPACITOR	50V 473±20% 7R 0805	C6,C7
0390052	MAGNETIC BEADS INDUCTOR	FB	J2
0390273	COMMON MODE INDUCTOR	75uH±25%3A φ9×φ5×3 4mm	LF2
0460642	SWITCH POWER TRANSFORMER	@BC25-0126 SJ	TR1
0570005	DIODE	1N4007	D1~D4
05700149	DIODE	HER107 BELT	D5
0620002	LIGHT-EMITTING DIODE	Φ3 RED	LED
0680093	SCHOTTKY DIODE	SB10100CT PLASTIC SEALED TO-220	D10
0700182	SMD DIODE	B102 MINIMELF	D6
0881934	IC	F0565R TO-2206L	IC1
0882462	IC	AZ431AZ-A TO-92	IC3 ②
08824629	IC	AZ431AZ-A TO-92 BELT	IC3 ②
1000060	POWER GRID FILTER	@JLB1020 30mH +∞-0% SJ	LF1
1080037	PHOTOELECTRIC COUPLER	@HS817 CQC	IC2
1564487	PCB	@5021-2 CQC	

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1870029	POWER SOCKET	S2S (UL)	JK1
2100062	CONNETION CORDS	Φ0.8 SHAPED 5MM	L2
2140350	POWER CONNECTING WIRE	2P1.2m Φ4.0DC FLEX INSERT	
2300058	FUSE	@1.6AL 250V WITH CANNULA CQC	F1
3580229	HEAT RADIATION PIECE	90×19×2	
3580230	HEAT RADIATION PIECE	21	
4230033	MACHINE-TAPPING SCREW	FM 3×9 WHITE NICKEL	1PC FOR EACH HEAT RADIATION SHEET ON LEFT AND RIGHT
4400001	NUT	3	1PC FOR HEAT RADIATION SHEET ON LEFT AND RIGHT
5143041	VERSION LABEL	6.00 SQUARENESS,WHITE	
5230415	PYROCONDENSATION SLEEVE	Φ22	
5235791	INSULATION PLATISC BAND	PZ-281 LENGTH:60M WIDTH:18MM DEEP YELLOW	WIND 3 LAYERS AROUND TRANSFORMER OF SWITCH POWER

DL370TI(RU)-4 SILVER WHITE(1389P)

BATTERY LINKER BOARD GDL370TI-0 4941791

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1030028	SMD PRESS SENSITIVITY RESISTOR	SFI0603ML240C	BATTERY POWER OUTLET PARALLEL TO GROUND
1635036	PCB	G 370TI-0 FR4 D1.0 PX	
1860063	BATTERY LINKER	4P 2.5mm DC-001-040-100	CN1
2122915	FLAT CABLE	3p 120mm RED BLACK BLACK 22#CORD	

DL370TI(RU)-4 SILVER WHITE(1389P)

POWER SOCKET BOARD 5DL370TI-0 4941790

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1635028	PCB	5 370TI-0 FR4 D1.0 PX	
1870021	POWER SOCKET	DC-023	J1
2110400	DUAL-CORD	22# 110mm RED BLACK	

DL370TI(RU)-4 SILVER WHITE(1389P)

MAIN PANEL 4DL370TI-0 4941789

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090181	SMD RESISTOR	1/16W 100Ω±5% 0603	R1~R8

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0310047	SMD CAPACITOR	50V 101±5% NPO 0603	C1~C8
0390302	SMD MAGNETIC BEADS	MGHB1608S102	L1~L8
1635035	PCB	4 370TI-0 FR4 D1.0 PX	
1940294	CABLE SOCKET	10P 1.0mm DUAL RANK TOUCH POINT,SMD,HORIZONTAL	CON1

DL370TI(RU)-4 SILVER WHITE(1389P)

BATTERY CHARGER BOARD BDL370TI-0 4941792

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090003	SMD RESISTOR	1/16W 10Ω±5% 0603	R610,R613
0090011	SMD RESISTOR	1/16W 470Ω±5% 0603	R624,R626
0090014	SMD RESISTOR	1/16W 1K±5% 0603	R602
0090016	SMD RESISTOR	1/16W 1.5K±5% 0603	R628
0090017	SMD RESISTOR	1/16W 2.2K±5% 0603	R616
0090019	SMD RESISTOR	1/16W 4.7K±5% 0603	R606,R608,R621
0090029	SMD RESISTOR	1/16W 47K±5% 0603	R625
0090034	SMD RESISTOR	1/16W 100K±5% 0603	R639
0090135	SMD RESISTOR	1/8W 100Ω±5% 1206	R637,R638
0090171	SMD RESISTOR	1/8W 1K±5% 1206	R609
0090201	SMD RESISTOR	1/16W 220K±5% 0603	R615
0090304	PRECISION SMD RESISTOR	1/16W 10K±1% 0603	R601,R603,R604,R605,R607,R614,R617~R620,R622
0090465	PRECISION SMD RESISTOR	1/16W 47K±1% 0603	R631,R632
0090488	SMD RESISTOR	1/8W 470Ω±5% 1206	R611
0090490	PRECISION SMD RESISTOR	1/16W 22K±1% 0603	R627
0090536	SMD RESISTOR	1/8W 0.27Ω±5% 1206	R633,R634,R635,R636,R642
0090549	PRECISION SMD RESISTOR	1/16W 3k±1% 0603	R612,R623
0260008	CD	CD11C 10V47U±20%4×7 1.5	CE6,CE10,CE13
0260040	CD	CD11 25V100U±20%6×12 2.5	CE3,CE1,CE2,CE5,CE4
0310066	SMD CAPACITOR	50V 102±10% 7R 0603	C602
0310112	SMD CAPACITOR	16V 224±10% 0603	C604

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0310188	SMD CAPACITOR	50V 10P±5% NPO 0603	C607,C608
0310207	SMD CAPACITOR	50V 104 ±20% 7R 0603	C601,C605,C606,C609,C611,C612,C614,C615,C46 ③
0310543	SMD CAPACITOR	50V 104±10% 7R 0603	C601,C605,C606,C609,C611,C612,C614,C615,C46 ③
0410139	CHOKE COIL	VERTICAL 30UH 3A 15mm	L601
0680028	SMD SCHOTTKY DIODE	MBRS340	D1,D2
0780085	SMD TRIODE	8050D	Q2,Q3,Q5,Q6
0780129	SMD TRIODE	8550D	Q4
0780138	TRIODE	8050D	Q1
0790095	SMD FIELD EFFECT TRANSISTOR	AO3409 SO23	V1,V3
0790142	FIELD EFFECT TRANSISTOR	SI4435B SO8	V2
0880176	IC	L358M SOP	U603
0882322	IC	AZ431-2.5V SO23	U602
0882887	IC	S39454 SOP(375KR)	U601
0960245	SMD CRYSTAL OSCILLATOR	8.00MHz±20ppm 49-S	X601
1350053	TESTING SWITCH	SPVE110600	SW601,SW602
1635032	PCB	B 370TI-0 FR4 D1.0 PX	
1940002	SOCKET	3P 2.5mm	CN4
1940295	CABLE SOCKET	4P 1.0mm DUAL RANK TOUCH POINT,SMD,HORIZONTAL	CN1
5141755	VERSION LABEL	2.00SQUARENESS WHITE	

DL370TI(RU)-4 SILVER WHITE(1389P)

DRIVE BOARD CDL370TI-0 4941793

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω±5% 0603	R10
0090017	SMD RESISTOR	1/16W 2.2K±5% 0603	R17
0090020	SMD RESISTOR	1/16W 5.1K±5% 0603	R18
0090023	SMD RESISTOR	1/16W 10K±5% 0603	R11,R14,R39,R40
0090029	SMD RESISTOR	1/16W 47K±5% 0603	R9
0090030	SMD RESISTOR	1/16W 56K±5% 0603	R4

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090034	SMD RESISTOR	1/16W 100K±5% 0603	R6,R8
0090098	PRECISION SMD RESISTOR	1/1620K±1% 0603	R262
0090242	SMD RESISTOR	1/16W 75K±5% 0603	R2
0090288	PRECISION SMD RESISTOR	1/16W 12K±1% 0603	R7,R263
0090450	PRECISION SMD RESISTOR	1/16W470K±1% 0603	R3
0090715	SMD RESISTOR	1/16W 5.6Ω±5% 0603	R15
0090926	PRECISION SMD RESISTOR	1/16W820K±1% 0603	R5,R1
0310042	SMD CAPACITOR	50V 15P±5% NPO 0603	C53
0310043	SMD CAPACITOR	50V 22P±5% NPO 0603	C3,C8,C51
0310057	SMD CAPACITOR	16V 104±10% 0603	C5,C19
0310068	SMD CAPACITOR	50V 222±10% 7R 0603	C9
0310112	SMD CAPACITOR	16V 224±10% 0603	C10
0310483	SMD CAPACITOR	10V 105±10% 5R 0603	C2
0310488	SMD CAPACITOR	25V 103 ±10% 7R 0603	C6,C7
0310653	SMD CAPACITOR	25V 334±10% 5R 0603	C4,C11,C14~C15,C17
0310752	SMD CAPACITOR	25V 106±10% 5R 1206	C1
0310756	SMD CAPACITOR	16V 106 +80%-20% Y5V 0805	C13,C16,C12,C18, C288
0390170	SMD INDUCTOR	10UH±10% 1608	L61,L3
0390259	SMD MAGNETIC BEADS	FC2012-1202A	L2 ④
0390444	SMD MAGNETIC BEADS	PZ2012U121	L2 ④
0390302	SMD MAGNETIC BEADS	MGHB1608S102	L4
0390455	SMD CORES INDUCTOR	10UH±20% SRD0403	L1
0680042	SMD SCHOTTKY DIODE	B54S SO23	D2,D3,D14
0680050	SMD SCHOTTKY DIODE	MBRS140	D1
0790095	SMD FIELD EFFECT TRANSISTOR	AO3409 SO23	Q20
0880768	IC	C4558 SOP	U2
0883634	IC	TPS65150RGER QFN	U1
1635029	PCB	C 370TI-0 FR4 D1.0 PX	

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1940194	CABLE SOCKET	26P 0.5mm SMD,SUBMIT MEET WITH CLASP	XS2
1940238	SOCKET	2P 1.25mm SMD	con1
1940291	SOCKET	24P 0.8mm SMD	XS1
5141755	VERSION LABEL	2.00SQUARENESS WHITE	

DL370TI(RU)-4 SILVER WHITE(1389P)

DECODE BOARD 2DL370TI-1 4941795

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090001	SMD RESISTOR	1/16W 0Ω±5% 0603	R193
0090026	SMD RESISTOR	1/16W 22K±5% 0603	R163,R164
0090181	SMD RESISTOR	1/16W 100Ω±5% 0603	R50
0090245	SMD RESISTOR	1/16W20Ω±5% 0603	R169
0090324	SMD RESISTOR	1/16W 0Ω±5% 0402	R1,R27,R36,R134,R137,R153,R154,R184,R234~R236,R239,R168,R187,R190,R195,R20,R53,R15
0090326	SMD RESISTOR	1/16W 10Ω±5% 0402	R48
0090330	SMD RESISTOR	1/16W 33Ω±5% 0402	R8~R11,R173,R175,R176,R178,R180,R181,R228,R229,R192
0090333	SMD RESISTOR	1/1647Ω±5% 0402	R114
0090336	SMD RESISTOR	1/1675Ω±5% 0402	R117,R118,R166
0090339	SMD RESISTOR	1/16W 100Ω±5% 0402	R159,R194
0090340	SMD RESISTOR	1/16W120Ω±5% 0402	R124
0090344	SMD RESISTOR	1/1651Ω±5% 0402	R183,R185
0090345	SMD RESISTOR	1/16W 200Ω±5% 0402	R39,R170
0090346	SMD RESISTOR	1/16W 220Ω±5% 0402	R120,R165
0090348	SMD RESISTOR	1/16W270Ω±5% 0402	R32,R33,R44,R45,R47,R49,R52,R55,R200,R207,R214
0090350	SMD RESISTOR	1/16330Ω±5% 0402	R14,R72,R81,R162
0090354	SMD RESISTOR	1/16W 470Ω±5% 0402	R35,R37
0090356	SMD RESISTOR	1/16560Ω±5% 0402	R74,R83,R188,R189,R238
0090359	SMD RESISTOR	1/16W 750Ω±5% 0402	R25,R42
0090362	SMD RESISTOR	1/16W 1K±5% 0402	R31,R100,R110,R150,R155,R237,R246,R247,R309,R196,R43,R249
0090366	SMD RESISTOR	1/16W 1.5K±5% 0402	R172,R186

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090371	SMD RESISTOR	1/16W 2.7K±5% 0402	R107
0090373	SMD RESISTOR	1/16W 3.3K±5% 0402	R156
0090377	SMD RESISTOR	1/16W 4.7K±5% 0402	R3~R7,R68,R69,R77,R78,R96,R109,R248
0090378	SMD RESISTOR	1/16W 5.1K±5% 0402	R240
0090379	SMD RESISTOR	1/16W 5.6K±5% 0402	R125
0090381	SMD RESISTOR	1/1639Ω±5% 0402	R23
0090382	SMD RESISTOR	1/16W 7.5K±5% 0402	R199,R206,R213
0090385	SMD RESISTOR	1/16W 10K±5% 0402	R16,R12,R13,R17~R19,R28,R34,R87,R88,R101~R103,R108,R130,R131,R219,R220,R245,R265,R56~R63,R46,R82
0090387	SMD RESISTOR	1/1612K±5% 0402	R161
0090389	SMD RESISTOR	1/1615K±5% 0402	R97,R230,R244
0090390	SMD RESISTOR	1/16W 18K±5% 0402	R70,R79,R30
0090391	SMD RESISTOR	1/16W 20K±5% 0402	R198,R205,R212
0090392	SMD RESISTOR	1/16W 22K±5% 0402	R167
0090394	SMD RESISTOR	1/16W 27K±5% 0402	R21,R242,R243
0090396	SMD RESISTOR	1/16W 33K±5% 0402	R71,R80
0090398	SMD RESISTOR	1/16W 39K±5% 0402	R85
0090400	SMD RESISTOR	1/16W 47K±5% 0402	R86,R89,R90
0090401	SMD RESISTOR	1/16W 51K±5% 0402	R22,R29
0090404	SMD RESISTOR	1/16W 68K±5% 0402	R202,R209,R216
0090405	SMD RESISTOR	1/16W 75K±5% 0402	R222,R224
0090408	SMD RESISTOR	1/16W 100K±5% 0402	R75,R84,R132,R133,R221,R223,R232,R233,R227,R217,R210,R203,R148
0090412	SMD RESISTOR	1/16W 150K±5% 0402	R138,R139
0090429	SMD RESISTOR	1/16W 680K±5% 0402	R26,R149,R151,R152
0090430	SMD RESISTOR	1/16W 750K±5% 0402	R231
0090445	SMD RESISTOR	1/16W 1Ω±5% 0402	R128
0090447	SMD RESISTOR	1/16W 22Ω±5% 0402	R92~R95
0090507	SMD RESISTOR	1/16W 4.7Ω±5% 0402	R135,R136

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0090644	SMD RESISTOR	1/16W 18Ω±5% 0402	R225
0090648	PRECISION SMD RESISTOR	1/16W 75Ω±1% 0402	R106,R201,R208,R215,R226
0090652	PRECISION SMD RESISTOR	1/16W 1K±1% 0402	R157
0090735	SMD RESISTOR	1/4W 0.1Ω±5% 1206	R24,R41
0090739	PRECISION SMD RESISTOR	1/16W 2K±1% 0402	R158,R141
0090759	SMD RESISTOR	1/16W 150Ω±5% 0402	R197,R204,R211
0090820	PRECISION SMD RESISTOR	1/161.2K±1% 0402	R160
0090843	PRECISION SMD RESISTOR	1/16W6.8K±1% 0402	R38,R67,R76
0090850	PRECISION SMD RESISTOR	1/16W2.2K±1% 0402	R40,R308
0100019	SMD RESISTOR NETWORKS	1/16W 33Ω±5% 8P	RN1
0160157	ROTATED POTENTIOMETER	WHE101GB-2B5016	VR2
0260455	CD	CD11E 6.3V220U±20% 6.3×5 2.5	C24
0260568	CD	CD11E 16V100U±20%6.3×5 2.5	C26,C82,C83,C90,C153,C211,C21,C66
0260811	CD	CD11C 6.3V330U±20%6.3×7 2.5	C157
0310205	SMD CAPACITOR	50V 473±10% 0603	C30
0310352	SMD TANTALUM CAPACITOR	10V 100UF±20% 6032(C)	C27,CE6,CE7,CE8,CE9,C177
0310381	SMD TANTALUMCAPACITOR	10V220U±20%7343(E)	CE5
0310389	SMD CAPACITOR	10V 106 +80%-20% Y5V 0805	C8~C11,C13,C19,C36,C37,C124,C125,C140,C175,C197,C198,C202,C208,C210,C212,C237,C239,C241,C243,C246,C248,C249,C163,C164,C167,C168,C171,C172,C64,C155,C303,C304,C62,TC87,C61,C173
0310390	SMD TANTALUMCAPACITOR	16V10U±20% 3216	C72,C79
0310392	SMD CAPACITOR	50V 102±10% 7R 0402	C22,C25,C68,C73,C75,C80,C109,C111,C185,C188,C138,C145,C89
0310394	SMD CAPACITOR	50V 222±10% 7R 0402	C127,C129,C142,C146
0310408	SMD CAPACITOR	50V 10P±0.5P NPO 0402	C28
0310415	SMD CAPACITOR	50V 20P±5% NPO 0402	C31,C39,C110,C113,C189
0310416	SMD CAPACITOR	50V 22P±5% NPO 0402	C132
0310420	SMD CAPACITOR	50V 33P±5% NPO 0402	C180,C181
0310424	SMD CAPACITOR	50V 47P±5% NPO 0402	C112,C114,C38,C134

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0310426	SMD CAPACITOR	50V 82P±5% NPO 0402	C70,C77
0310429	SMD CAPACITOR	50V 68P ±5% NPO 0402	C16,C17,C131,C133
0310432	SMD CAPACITOR	50V 101±5% NPO 0402	C161,C162,C165,C166,C169,C170,C45
0310434	SMD CAPACITOR	50V 181 ±5% NPO 0402	C135
0310445	SMD CAPACITOR	50V 122±10% 7R 0402	C69,C76
0310446	SMD CAPACITOR	50V 152±10% 7R 0402	C199,C119
0310453	SMD CAPACITOR	25V 103±10% 7R 0402	C226,C107,C115,C122, C139 ,C143 ,C149.C151,C152,C154,C123,C14
0310454	SMD CAPACITOR	16V 153±10% 7R 0402	C227
0310459	SMD CAPACITOR	10V 683 ±10% 5R 0402	C99,C100,C104,C105
0310480	SMD CAPACITOR	10V 104±10% 5R 0402	C1~C7,C12,C18,C20,C23,C85~C87,C128 ,C130,C150,C182~C184,C190,C192~C194,C201,C203~C205,C209,C213,C230,C232~C234,C236,C238,C240,C242,C244,C245,C247,C250~C259,C261~C267,C29,C32,C84,C33,C34,C35
0310483	SMD CAPACITOR	10V 105±10% 5R 0603	C91~C96,C179,C214~C218,C71,C78,C15
0310492	SMD CAPACITOR	50V 0.5P ±0.1P NPO 0402	C136,C137
0310504	SMD CAPACITOR	10V 224 +80%-20% Y5V 0402	C118,C141,C147
0310612	SMD TANTALUM CAPACITOR	6.3V 330UF ±20% 7343	C195,C200,C235
0310634	SMD CAPACITOR	25V 154±10% 7R 0603	C101,C106
0310658	SMD CAPACITOR	25V 105±10% 7R 0805	C301,C302,C305,C306,C309,C310,C311
0310710	SMD CAPACITOR	16V 333±10% 5R 0402	C97,C98,C102,C103,C191
0310712	SMD CAPACITOR	10V 473±10% 5R 0402	C186,C187
0310721	SMD CAPACITOR	50V 331±5% NPO 0402	C224,C225,C176,C319,C174
0310729	SMD CAPACITOR	10V 474±10% 5R 0402	C108,C117
0310737	SMD CAPACITOR	16V 104±10% 7R 0402	C121,C144
0310743	SMD CAPACITOR	16V 104 ±20% 7R 0402	C178
0310753	SMD CAPACITOR	16V 104±20% 5R 0402	C307
0310756	SMD CAPACITOR	16V 106 +80%-20% Y5V 0805	C308
0310795	SMD CAPACITOR	16V 391±5% NPO 0402	C116

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0310827	SMD CAPACITOR	6.3V106±20% 5R 0805 T≤0.85	C67,C74
0310868	SMD CAPACITOR	50V 1.5P ±0.1P NPO 0402	C158
0390044	SMD INDUCTOR	10UH±10% 2012	L6,L72~L79,L41,L27~L30,L108,L65
0390096	SMD INDUCTOR	1.8UH±10% 1608	L24,L37~L39,L40,L111
0390126	SMD INDUCTOR	1UH ±10% 2012	L64
0390235	SMD INDUCTOR	8.2uH±10% 1608	L80
0390259	SMD MAGNETIC BEADS	FC2012-1202A	L12,L66 ⑤
0390444	SMD MAGNETIC BEADS	PZ2012U121	L12,L66 ⑤
0390279	SMD COIL THREAD INDUCTOR	100uH±10% 3225	L11,L55
0390300	SMD MAGNETIC BEADS	600Ω/100MHZ±25% 1608	L81
0390302	SMD MAGNETIC BEADS	MGHB1608S102	L1,L2,L5,L9,L10,L17,L18,L20~L22,L23,L32,L42~L53,L56,L57
0390433	VERTICAL INDUCTOR	47uH±10% 8×5 5mm	L3,L4,L31
0390455	SMD CORES INDUCTOR	10UH±20% SRD0403	L26
0390456	SMD CORES INDUCTOR	15UH±20% SRD0403	L13,L14,L15,L16
0390516	SMD COIL THREAD INDUCTOR	270NH±10% 1608	L69
0390630	SMD COIL THREAD INDUCTOR	5.1NH ±5% 50mA 1608	L71
0390631	SMD COIL THREAD INDUCTOR	12NH ±5% 50mA 1608	L67
0390632	SMD COIL THREAD INDUCTOR	16NH ±5% 50mA 1608	L70
0390633	SMD COIL THREAD INDUCTOR	330NH ±5% 50mA 1608	L68
0620086	DUAL COLOR LIGHT-EMITTING DIODE	2.5RG59HW-A×5 RED GREEN	LED1
0680028	SMD SCHOTTKY DIODE	MBRS340	D3,D4
0700001	SMD DIODE	LS4148	D1,D9
0700137	SMD VOLTAGE REGULATOR DIODE	11V±5% 1/2W MINIMELF	D19
0780040	SMD TRIODE	3904(100-300) SO23	Q2,Q10,Q12,Q27~Q29
0780041	SMD TRIODE	3906(100-300) SO23	Q5
0780085	SMD TRIODE	8050D	Q11, Q14~Q16,Q18,Q26,Q43
0780115	SMD TRIODE	2SB1132	Q22,Q23
0780129	SMD TRIODE	8550D	Q17

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0780193	SMD TRIODE	2S3018	Q20,Q21
0780197	SMD TRIODE	C1815	Q3
0790094	SMD FIELD EFFECT TRANSISTOR	AO3401 SO23	Q4
0790095	SMD FIELD EFFECT TRANSISTOR	AO3409 SO23	Q24
0790097	FIELD EFFECT TRANSISTOR	AO4419 SO8	Q25,U9
0880768	IC	C4558 SOP	U10
0881388	IC	24C16 SOP	U16
0882476	IC	TP62200 SO23-5	U90
0882634	IC	9702 TQFN	U12
0882771	IC	CD74HC4053PWR TSSOP	U13
0882886	IC	5898N HSOP	U4
0883167	IC	9886 SO340-1	U7
0883435	IC	MT1389FE/P(P EDITION) LQFP	U1
0883532	IC	HY57V641620FTP-7 SOP	U3
0883976	IC	MT2130F QFN	U18
0912117	PROGRAM FLASH	ROM370TIRU4-0A(16M)	
0960373	SMD CRYSTAL OSCILLATOR	16.00M ±20PPM 49-S 20P	X2
0960385	SMD CRYSTAL OSCILLATOR	27.00M ±20PPM 49-S 20P H=3	Y2
1000102	SOUND FILTER	F1220A1S-7	FL2
1000103	SOUND FILTER	HDAF389A14DcY1	U14
1000104	SOUND FILTER	HDVF389A1DcY1	U15
1030027	SMD PRESS SENSITIVITY RESISTOR	SFI0603ML080C	D5,D2,D24,D8
1310083	STIR SWITCH	S12D06-D2	SW2
1350065	TESTING SWITCH	SPVE0010	SW1
1635092	PCB	2 370TI-1 FR4 D1.0 PX	
1940094	CABLE SOCKET	24P 0.5mm SMD SUBMIT MEET WITH CLASP	XS1
1940241	SOCKET	4P 2.0mm SMD	XS7
1940243	SOCKET	2P 2.0mm SMD	XS9

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
1940291	SOCKET	24P 0.8mm SMD	XS8
1940294	CABLE SOCKET	10P 1.0mm DUAL RANK TOUCH POINT,SMD,HORIZONTAL	con1
1940295	CABLE SOCKET	4P 1.0mm DUAL RANK TOUCH POINT,SMD,HORIZONTAL	CON5
1980077	EARPHONE SOCKET	S066-060-100 BLACK	J3,J4
1980098	EARPHONE SOCKET	S0290D00-040-100	J6
1980130	EARPHONE SOCKET	Φ2.5 DIP-04 STRAIGHT PLUG	J7
2360016	IR SENSOR	HS0038B3V	U5
5141756	VERSION LABEL	2.01 SQUARE WHITE	
5237625	COPPER FOIL LABEL	12×8×0.05 SINGLE-FACED WITH GLUE IN REAR SIDE	

DL370TI(RU)-4 SILVER WHITE(1389P)

PROGRAM FLASH 0912117

MATERIAL CODE	MATERIAL NAME	SPECIFICATIONS	LOCATION
0882665	IC	S29AL016D70TFI02 TSOP	U2