

Service Manual

Color Television

CHSSIS	MODEL
CN-400FN	DTQ-29U1SCV
	DTQ-29U1SSFV
	DTQ-29U1SCSV
	DTQ-29U5SSFV
CN-401FN	DTQ-29U4SCV

Caution

: In this Manual, some parts can be changed for improving. their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List)in Service Information Center.

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SAFETY PRECAUTIONS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY. NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

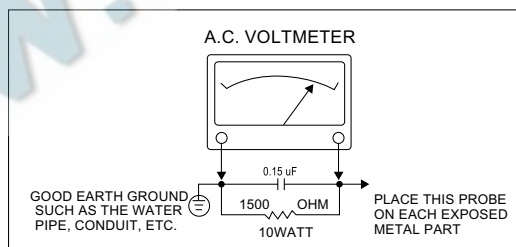
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING:

SUBJECT: FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE, THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OF SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY. FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTOR, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES. DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET. (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. USE AN A.C. VOLTMETER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER : CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150V A.C. TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED .75 VOLTS R.M.S THIS CORRESPONDS TO 0.5 MILLIAMPS A.C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



SUBJECT : GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION ON SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS. ALWAYS RE-INSTALL THEM.
3. IT IS ESSENTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD. SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED, THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY. WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE, AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV, B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT : IMPLOSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM. BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION. AVOID SCRATCHING THE TUBE. OF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBYHOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT, MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS. A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SAFETY PRECAUTIONS

CAUTION : Do not attempt to modify this product in any way. Unauthorized modifications will not only void the warranty, but may lead to your being liable for any resulting property damage or user injury.

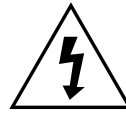
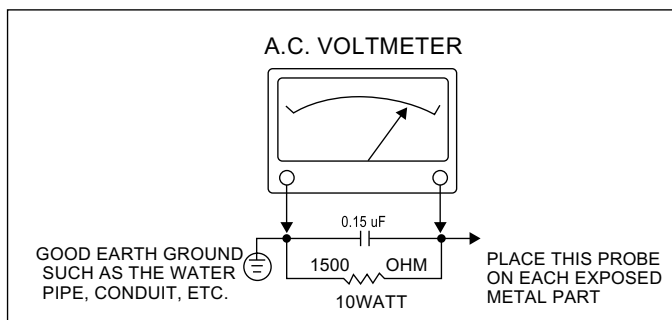
Service work should be performed only after you are thoroughly familiar with all of the following safety checks and servicing guide-lines. To do otherwise, increases the risk of potential hazards and injury to the user.

SAFETY CHECKS

After the original service problem has been corrected, a check should be made of the following:

SUBJECT : FIRE & SHOCK HAZARD

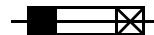
1. Be sure that all components are positioned in such a way as to avoid possibility of adjacent component shorts. This is especially important on those chassis which are transported to and from the repair shop.
2. Never release a repair unless all protective devices such as insulators, barriers, covers, shields, strain reliefs, and other hardware have been reinstalled per original design.
3. Soldering must be inspected to discover possible cold solder joints, frayed leads, damaged insulation (including A.C. cord), solder splashes or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, and replace if necessary follow original layout, lead length and dress.
5. No leads or components should touch a receiving tube or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. All critical components such as fuses, flameproof resistors, capacitors, etc. must be replaced with exact factory types. Do not use replacement components other than those specified or make unrecommended circuit modifications.
7. After re-assembly of the set always perform an A.C. leakage test on all exposed metallic parts of the cabinet, (the channel selector knob, antenna terminals, handle and screws) to be sure the set is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this test. Use an A.C. voltmeter, having 5000 ohms per volt or more sensitivity, in the following manner : connect a 1500 ohm 10 watt resistor, paralleled by a 15 mfd. 150V A.C. type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the A.C. voltage across the combination of 1500 ohm resistor and 0.15 MFD capacitor. Reverse the A.C. plug and repeat A.C. voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts R.M.S. This corresponds to 0.5 milliamp A.C. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



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



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



Fuse symbol is printed on pcb adjacent to the fuse, with "RISK OF FIRE REPLACE FUSE AS MARKED". The symbol is explained in the service manual with the following wording or equivalent.

"CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE (4A, 125V)" and "ATTENTION: AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET DE "4A, 125V".

SUBJECT : X-RADIATION

1. Be sure procedures and instructions to all service personnel cover the subject of X-rays in current T.V. receivers is the picture tube. However, this tube does not emit X-rays when the high voltage is at the factory specified level. The proper value is given in the applicable schematic. Operation at higher voltages may cause a failure of the picture tube or high voltage supply and, under certain circumstances, may produce radiation in excess of desirable levels.
2. Only factory specified C.R.T. anode connectors must be used. Degaussing shields also serve as X-ray shield in color sets. Always re-install them.
3. It is essential that the serviceman has available an accurate and reliable high voltage meter. The calibration of the meter should be checked periodically against a reference standard. Such as the one available at your distributor.
4. When the high voltage circuitry is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be run up and down while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly. We suggest that you and your service organization review test procedures so that voltage regulation is always checked as a standard servicing procedure. And that the high voltage reading be recorded on each customer's invoice.
5. When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage compartment. Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.
6. Refer to HV, B+ and Shutdown adjustment procedures described in the appropriate schematic and diagrams (where used).

SAFETY PRECAUTIONS

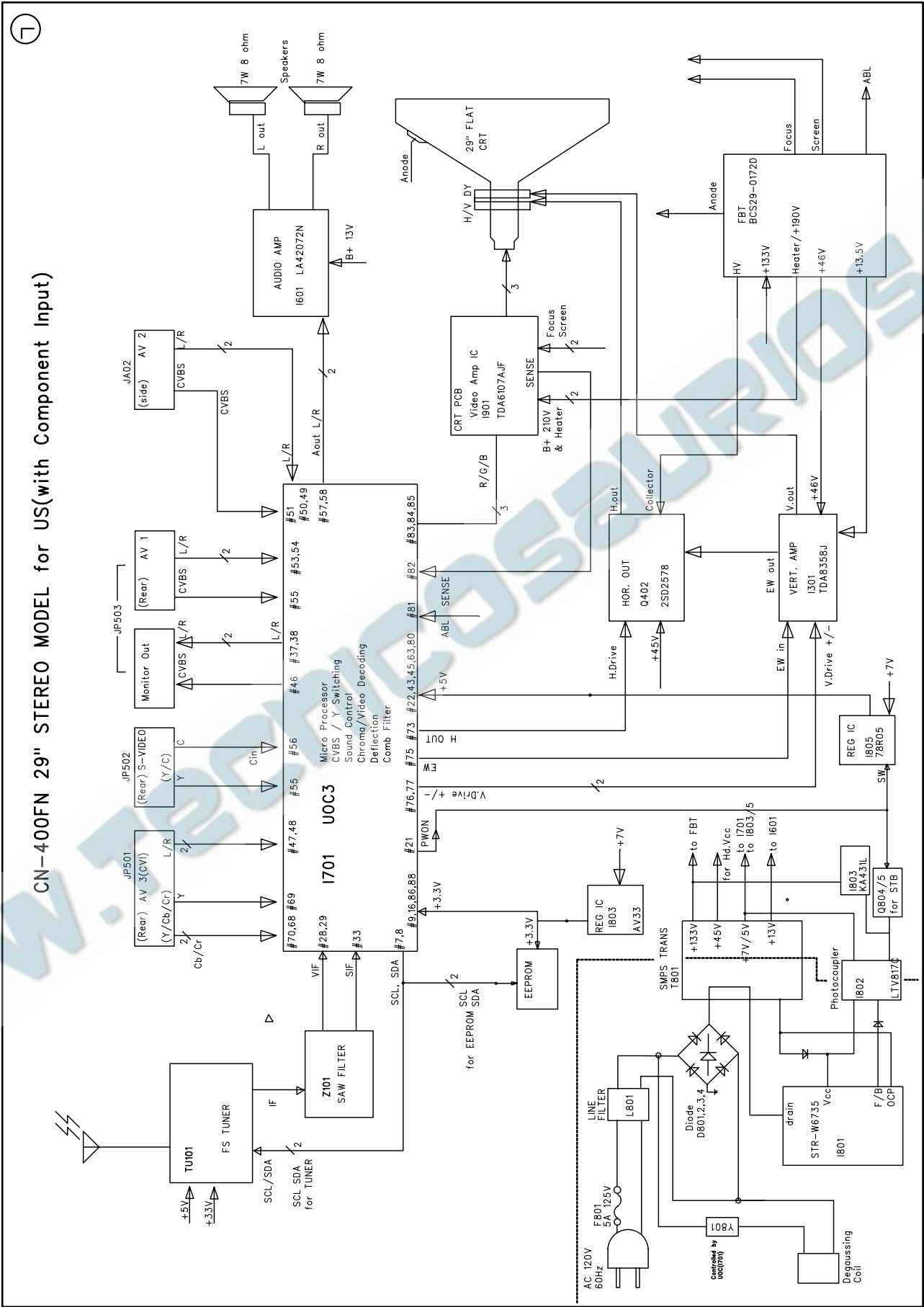
SUBJECT : IMPLOSION

1. All direct viewed picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage during installation. Avoid scratching the tube. If scratched, replace it.
2. Use only recommended factory replacement tubes.

SUBJECT : TIPS ON PROPER INSTALLATION

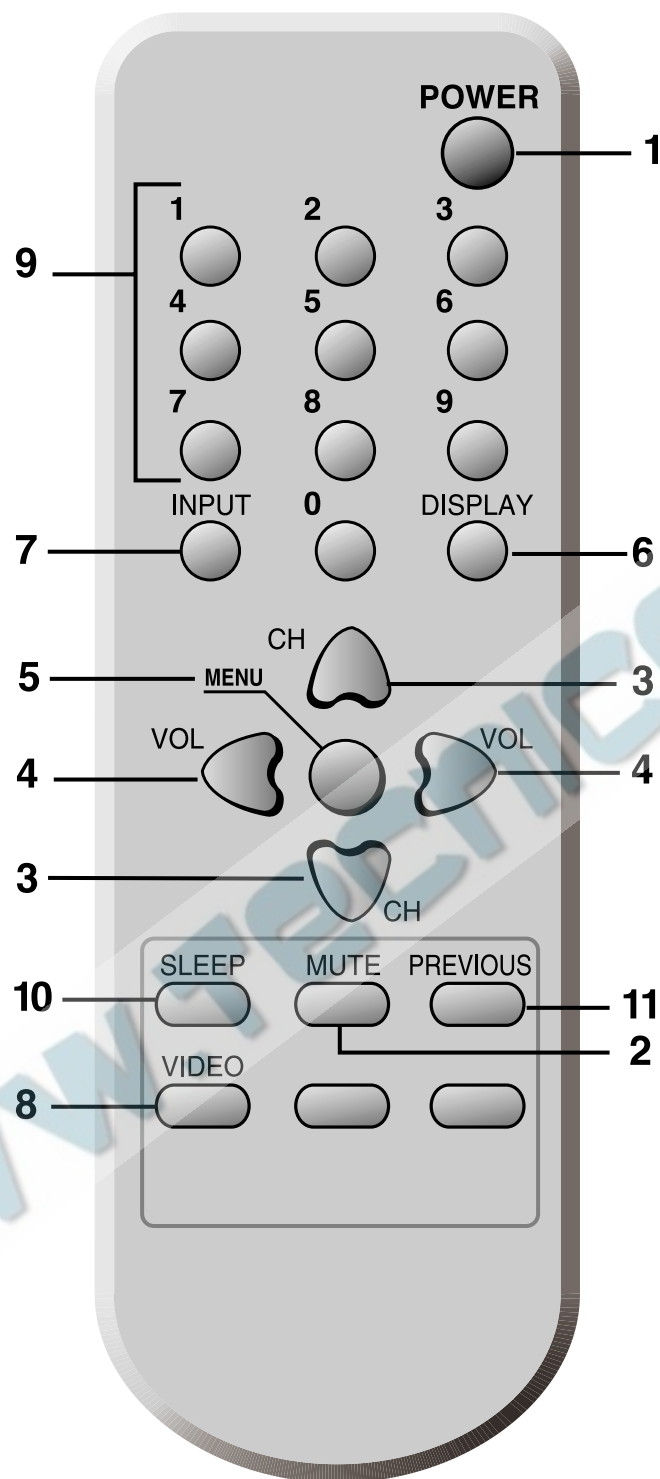
1. Never install any receiver in closed-in recess, cubbyhole or closely fitting shelf space over, or close to heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as : Outdoor patio installations where dew is a factor. Near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct rear venting. The customer should also avoid the use of decorative scarves or other coverings which might obstruct ventilation.
4. Wall and shelf mounted installations using a commercial mounting kit, must follow the factory approved mounting instructions. A receiver mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom, bolts or screws used for fasteners must not touch and parts or wiring. Perform leakage test on customized installations.
5. Caution customers against the mounting of a receiver on sloping shelf or a tilted position, unless the receiver is properly secured.
6. A receiver on a roll-about cart should be stable on its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against the use of a cart or stand which has not been listed by underwriters laboratories, inc. For use with their specific model of television receiver or generically approved for use with T.V.'s of the same or larger screen size.

CIRCUIT BLOCK DIAGRAM



ALIGNMENT INSTRUCTION

Your Remote Control(R-48C04)



1. POWER

Use this button to turn your TV on or off.

2. MUTE

Use to turn the TV's sound on and off.

3. ▼CH▲

Use these buttons to change channels on your TV, or select items in the menu system.

4. ◀VOL▶

Use these buttons to change your TV's volume, to activate selections in the menu system, or to change audio and video settings.

5. MENU

Use this button to turn the TV's menu system on and off.

6. DISPLAY

Use this button to display the present status.

7. INPUT

Use this button to select the TV's signal source.

8. VIDEO

Use this button to display video adjustment items.

9. 0-9

Use these buttons to change channels.

10. SLEEP

Use this button to program the TV to turn off after a certain time.

11. PREVIOUS

Use this button to return to the previous channel you were watching.

ALIGNMENT INSTRUCTION

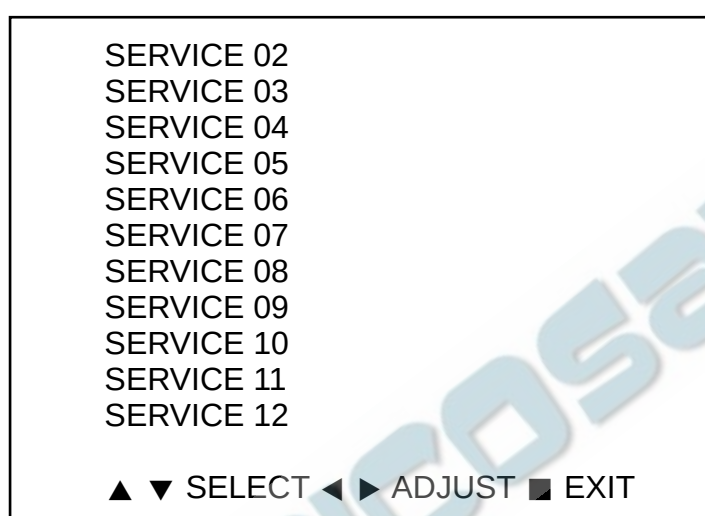
1. SERVICE MODE ADJUSTMENTS

Follow the steps below whenever service adjustment is required.

See Table- A and Table- B to determine if service adjustments are required.

1) How to enter the service mode using the user remote control.

- Turn the set on.
- Direct the remote control to the reception window of TV.
- Push buttons of remote control in sequence as follows.
1 → MUTE → DISPLAY → MUTE
- Then, the screen will appear as follows.



- Using the channel up or channel down button, select the item you wish to adjust.
(The color of selected item turns into the blue.)
- Press the volume up or down button to enter in the service mode you wish to adjust.

2) How to memorize the adjusted values in the service mode.

- Don't have to press any button the state which the screen is displaying each of service menus after all adjustments are completed each of all service menu.

Table-A : Adjust the values of service mode when a part is replaced.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
I701 (U-COM)		O	Data is stored in I702.
I702 (EEPROM)	O		Initial setting values are written from I701. ADJUSTING ITEMS S6 : Geometry adjustmrnt S8 : White balance S9 : Subbrightness
CRT	O		Adjust items related to picture tube only. (White Balance adjustment) CRT OPTION (Screen Option adjustment)

ALIGNMENT INSTRUCTION

Table-B. CN-400FN(DTQ-29U1SCV) EEPROM DATA

MODE	NAME	VAL	REMARKS	MODE	NAME	VAL	REMARKS
S1	HEAT RUN	RUN OFF		S7-2	SOC	0	
S2	SCREEN ADJUST	OEC : 650V			PWLDAC	0	
		RCA : 850V			CL	10	
S5	AGC LEVEL	22			CLD	0	
	IFOFF	37			GAM	1	
	QSS	1			HCT	0	
	BPB	1			ACL	0	
	FMI	1			BPS	1	
	AGN	0			CHSE	2	
	BPBS	1			FCO	0	
	DSG	RF:0, AV:1			CBPS	1	
	Fine Tunning				CB	0	
	FILTBW	0			MUS	0	
	IDMOD	1			FFI	0	
	OVMTHR	1		S8	R-GAIN	32	
S6	IDMOD SLOW KOR	1			G-GAIN	32	
	V.SIZE	43			B-GAIN	40	
	V.CENTER	42			R-BIAS	32	
	V.SLOPE	28			G-BIAS	32	
	V.LINEARITY	37			SRC R-BIAS	32	
	S_CORRECTION	32			SRC G-BIAS	32	
	H.CENTER	45		S9	CVI R-BIAS	-8	
	H.SIZE	54			CVI G-BIAS	10	
	H.PARALLEL	33			DP-Brightness	10	
	H-BOW	35			DP-Contrast	10	
	PARABOLA	17		S10	DP-Color	5	
	EW TRAPEZ	38			DP-Sharpness	18	
S7-1	CORNER TOP	54		S12	FACTORY SET		
	CORNER BOTTOM	46					
	CFCLF	1					
	YD TV	RF:4, AV:7					
	DTR	0					
	BPYD	0					
	TCCON	1					
	TCI2X	0					
	PF	3					
	TFR	1					
	NRR	0					
	WS	3					
	BLS	0					
	DSK	0					
	AAS	2					
	BSD	0					
	BKS	1					
	DSA	0					
	RPO	3					
	RPA	2					
	BPD	0					

* MEMORIZED CH :

AIR - 3, 5, 8, 10, 13, 32, 48

CATV - 36, 96

* VOLUME : CENTER (32)

* OPTION 1 : 1110 1101

OPTION 2 : 0110 0011

OPTION 3 : 0000 0011

* SCREEN OPTION

NORMAL(OEC) : 6AE -> 05

FLAT(OEC) : 6AE -> 05

FLAT(THOMSON) : 6AE -->

20(14Hex)

ALIGNMENT INSTRUCTION

2. ASSEMBLY ADJUSTMENTS

1) SCREEN ADJUSTMENT (S2)

- Enter the service mode and select service adjustment S2.
- You can see the one horizontal line on the screen.
- Adjust the Screen Control Volume (located on FBT) so that the horizontal line onscreen may be disappeared.
- Press S2 button to exit in the screen adjustment mode.

2) FOCUS ADJUSTMENT

- Turn in a local station and adjust the Focus Control knob (located on FBT) for best picture details at high light condition.

3) GEOMETRIC ADJUSTMENTS (S6)

- Select service adjustment S6
- You can see the OSD as shown in below.

V.SIZE	43	H.PARALLEL	33
V.CENTER	42	H-BOW	35
V.SLOPE	28	PARABOLA	17
V.LINEARITY	37	EW TRAPEZ	38
S_CORRECT	32	CORNER TOP	54
H.CENTER	45	CORNER BOTTOM	46
H.SIZE	54		
▲ ▼ SELECT ◀ ▶ ADJUST ■ EXIT			

3-1. Horizontal Position Adjustment

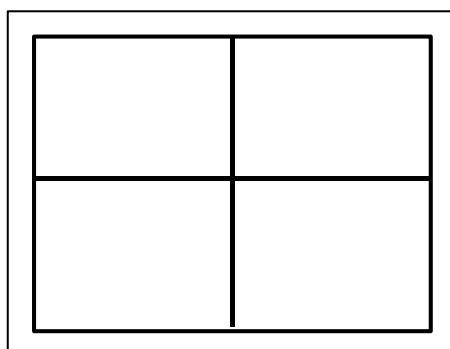
- Select H.CENTER item, adjust H.CENTER data value to obtain proper horizontal centering of the internal cross pattern at the left and right of the screen.

3-2. Vertical Position Adjustment

- Select V.CENTER item, adjust V.CENTER data value to center the raster properly on the screen.

3-3. Vertical Size Adjustment

- Select V.SIZE item, adjust V.SIZE data value to proper vertical size as follows.



4) WHITE BALANCE ADJUSTMENT(S8)

- Receive a good local channel.
- Enter the service mode and select service adjustment S8.
- You can see the OSD as shown in below.

R-GAIN	32	SRC R-BIAS	32
G-GAIN	32	SRC G-BIAS	32
B-GAIN	40	CVI R-BIAS	-8
R-BIAS	32	CVI G-BIAS	10
G-BIAS	32		

▲▼SELECT ◀▶ADJUST ■EXIT

- Using volume up or volume down, adjust service adjustment data of R-GAIN/G-GAIN/B-GAIN and R-BIAS/G-BIAS until a good gray scale with normal whites is obtained.

5) DIGITAL PRESET(D.P) ADJUSTMENTS(S9)

SUBBRIGHTNESS ADJUSTMENT

- Receive a good local channel.
- Enter the service mode and select service adjustment S9.
- You can see the OSD as shown in below.

DP-Brightness	10
DP-Contrast	10
DP-Color	5
DP-Sharpness	18

▲▼SELECT ◀▶ADJUST ■EXIT

- Select DP-Brightness item, adjust DP-Brightness data value to obtain normal brightness level.

DP-Contrast

- Fixed value = 10

DP-Color

- Fixed value = 5

DP-Sharpness

- Fixed value = 18

6) FACTORY OUTGOING MODE (S12 : FACT)

- If you select the S12, then the set becomes factory outgoing status.
- You can see the OSD : SHIPPING OFF

ELECTRICAL PARTS LIST

★Caution

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**This BOM is based on DTQ-29U1SCV

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
1	ZZ100	48B5748C04	TRANSMITTER REMOCON	R-48C04 (AAA)	
2	ZZ110	PTACPWK009	ACCESSORY AS	DTQ-29U4SC	
3	M821	4858213801	BAG INSTRUCTION	L.D.P.E T0.05X250X400	
4	ZZ120	PTBCSHK016	COVER BACK AS	DTQ-29U1SC	
5	M211	4852163100	COVER BACK	FR HIPS GY 29U1	
6	M781	4857817630	CLOTH BLACK	FELT 400X20X0.7	
7	M782	4857817612	CLOTH BLACK	FELT 250X20X0.7	
8	ZZ130	PTPKCPK016	PACKING AS	DTQ-29U1SC	
9	10	6520010100	STAPLE PIN	AUTO W65	
10	M801	4858057600	BOX CARTON	DW-3	
11	M811	4858101100	PAD	EPS 29U1	
12	M821	4858215601	BAG P.E	PE FOAM t0.5x1600x1270	
13	ZZ131	48519A4210	CRT GROUND NET	2901H-1015-2P	
14	ZZ132	58G0000143	COIL DEGAUSSING	DC-29S1	
15	ZZ140	PTCACAK142	CABINET AS	DTQ-29U1SCV	
16	M111A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	
17	M201A	4856017354	SCREW CRT FIX	6X35 L180 BK	
18	M201C	4856215404	WASHER RUBBER	CR T4.0	
19	M201E	4856816300	CLAMP WIRE	NYLON 6 (V0)	
20	M211A	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	
21	M211B	7172401612	SCREW TAPPTITE	TT2 TRS 4X16 MFZN BK	
22	M221C	7178301212	SCREW TAPPTITE	TT2 WAS 3X12 MFZN BK	
23	M541	4855415800	SPEC PLATE	150ART P/E FILM (C/TV)	
24	M686	4856812001	TIE CABLE	NYLON66 DA100	
25	SP01A	7172401212	SCREW TAPPTITE	TT2 TRS 4X12 MFZNBK	
26	SP01B	7172401212	SCREW TAPPTITE	TT2 TRS 4X12 MFZNBK	
27	V901	4859643460	CRT	A68ELA021X103 (CHN)	
28	ZZ200	PTFMSJK016	MASK FRONT AS	DTQ-29U1SC	
29	M191	4851948400	BUTTON CTRL	4955100+5549200 29U1	
30	M191A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
31	M201	4852083500	MASK FRONT	FR HIPS GY 29U1	
32	M481	4854864100	BUTTON POWER	FR HIPS GY 29U1	
33	M481A	4856716000	SPRING	SWPA PIE0.5	
34	M561	4855617400	MARK BRAND	CU AU+ABS BK	
35	M781	4857818703	CLOTH BLACK	FELT 300X15XT1.0	
36	ZZ201	PTSPPWK129	SPEAKER AS	DTQ-29U1V	
37	PA601	4850704532	CONNECTOR	YH025-04+YRT205+ULW=900	
38	SP601	4858310810	SPEAKER	SP-58126F01	
39	SP602	4858310810	SPEAKER	SP-58126F01	
40	ZZ220	PTJAMSK142	PCB JACK MANUAL AS	DTQ-29U1SCV	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
41	10	2193102005	SOLDER BAR	SN:PB=63:37 S63S-1320	
42	JA02	4859105450	JACK PIN BOARD	YSC03P-4120-9S	
43	M111	4851114003	PANEL AV ASSY	2326802+5934301	
44	M111A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
45	M684	4856812001	TIE CABLE	NYLON66 DA100	
46	P201A	4850705N21	CONNECTOR	YH025-05+YBNH250+USW=400	
47	ZZ200	PTJAJRK142	PCB JACK RADIAL AS	DTQ-29U1SCV	
48	ZZ200	PTJAJAK142	PCB JACK AXIAL AS	DTQ-29U1SCV	
49	10	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
50	20	2TM10006LB	TAPE MASKING	3M #232-MAP-C 6.2X2000M	
51	A001	4859802917	PCB JACK	79.05X27.3(197X246/14)C1B	
52	CC608	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
53	CCS07	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
54	RC636	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
55	RCS33	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
56	ZZ290	PTMPMSK142	PCB MAIN MANUAL AS	DTQ-29U1SCV	
57	10	2193102005	SOLDER BAR	SN:PB=63:37 S63S-1320	
58	30	2291050616	FLUX SOLDER	JS-64T3	
59	40	2291050301	FLUX SOLVENT	IM-1000	
60	C118	CMXL1J154J	C MYLAR	63V MEU 0.15MF J	
61	C401	CEYD1H689W	C ELECTRO	50V RHD 6.8MF (16X35.5)	
62	C406	CMYF2G394J	C MYLAR	400V MPP 0.39MF J	
63	C407	CMYH3C722J	C MYLAR	1.6KV BUP 7200PF J	
64	C408	CMYH3C702J	C MYLAR	1.6KV BUP 7000PF J	
65	C409	CMYE2G273J	C MYLAR	400V PU 0.027MF J	
66	C801	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O	
67	C802	CL1UC3474M	C LINE ACROSS	0.47MF 1J(UCVSNDF/SV)+Q/O	
68	C806	CEYD2D331D	C ELECTRO	200V FHS 330MF (22X30)	
69	C819	CEYF1E332V	C ELECTRO	25V RSS 3300MF (16X31.5)	
70	CS803	CH1BFE222M	C CERA AC	U/C/V AC400V 2200PF	
71	CS804	CH1BFE222M	C CERA AC	U/C/V AC400V 2200PF	
72	D402	DDGP30L—	DIODE	DGP30L	
73	D403	DRGP30J—	DIODE	RGP30J DO-201AD 600V 3A	
74	D801	D1N5406G—	DIODE	IN5406G	
75	D802	D1N5406G—	DIODE	IN5406G	
76	D803	D1N5406G—	DIODE	IN5406G	
77	D804	D1N5406G—	DIODE	IN5406G	
78	D809	DRGP30J—	DIODE	RGP30J DO-201AD 600V 3A	
79	D813	DSR306E20-	DIODE	SR306E20	
80	DL701	DLH2PR5MH3	LED HOLDER AS	LH-2P-R-5M-H3	
81	I301	PTA2SW8227	HEAT SINK ASS'Y	1TDA8358J- + 7174301011	
82	00001	1TDA8358J-	IC VERTICAL	TDA8358J	
83	0000A	4857028227	HEAT SINK	AL EX BK	
84	0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
85	I601	PTI2SW8200	HEAT SINK ASS'Y	1LA42072N- + 7174300811	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
86	00001	1LA42072N-	IC AUDIO AMP	LA42072N	
87	0000A	4857028200	HEAT SINK	AL EX BK	
88	0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
89	I701	1DA12001PQ	IC MICOM FLASH	TDA12001PQ	
90	I702	124LC16B1B	IC MEMORY	24LC16B1B	
91	I801	PTB2SW4401	HEAT SINK ASS'Y	1STRW6735- + 7174300811	
92	00001	1STRW6735-	IC POWER	STR-W6735	
93	0000A	4857024401	HEAT SINK	AL EX	
94	0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
95	I802	1LTV817C—	IC PHOTO COUPLER	LTV-817C	
96	I803	PTUASW6900	HEAT SINK ASS'Y AS	1LD1117V33 + 7174300811	
97	00001	1LD1117V33	IC REGULATOR	LD1117AV33 3.3V 2% TO-220	
98	0000A	4857026900	HEAT SINK	AL EX	
99	0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
100	I805	1K78R05—	IC REGULATOR	KIA78R05API	
101	IF01	1346VF6—	IC PREAMP	346VF6	
102	JP501	4859111550	JACK PIN BOARD	YPJ501B	
103	JP502	4859106440	JACK S-VHS	PH-SJ-9503	
104	JP503	4859107050	JACK PIN BOARD	PH-JB-9601 (PH06P-4120-C)	
105	L401	58C7070085	COIL CHOKE	TLN-3062A	
106	L402	58H0000033	COIL H-LINEARITY	TRL-2532	
107	L801	5PDLF3055L	FILTER LINE	DLF-3055L	
108	L807	58C0000090	COIL CHOKE	L-45S	
109	M681	4853747800	RETA PCB	NYLON 66	
110	M682	4853747800	RETA PCB	NYLON 66	
111	M683	4853747800	RETA PCB	NYLON 66	
112	PA906	4850708S03	CONNECTOR	YH025-08+YST025+ULW=500	
113	PW801	4859907810	CORD POWER AS	ME301P+TER=2100	
114	Q401	TKTC3229—	TR	KTC3229	
115	Q402	PTH2SW7609	HEAT SINK ASS'Y	T2SD2578— + 7174301011	
116	00001	T2SD2578—	TR HORI	2SD2578	
117	0000A	4857027609	HEAT SINK	AL EX	
118	0000B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFZN	
119	R617	RF02Y338K-	R FUSIBLE	2W 0.33 OHM K	
120	R801	RX10T109JS	R CEMENT	10W 1 OHM J TRIPOD SMALL	
121	R837	RM02Y158J-	R METAL FLAT	2W 0.15 OHM J	
122	RY801	DDB3R0M140	POSISTOR	ECPBD3R0M140	
123	SW707	5S50101035	SW TACT	KPT-1112 1C-1P	
124	T401	5TD0000018	TRANS DRIVE	THD-120	
125	T402	50H0000287	FBT	BSC29-0172D	
126	T801	50M4445B7-	TRANS SMPS	TSM-4445B7	
127	TU101	4859726730	TUNER VARACTOR	TAEC-H012F(A)	
128	X701	5XJ24R576E	CRYSTAL QUARTZ	HC-49/S 24.576MHZ 30PPM	
129	Y801	5SC0101339	SW RELAY	SDT-S-105LMR	
130	Z101	5PTSB6221C	FILTER SAW	TSB6221C	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
131	Z801	DSVC471D14	VARISTOR	SVC471D14A (BULK)	
132	ZZ200	PTMPJ0K142	PCB MAIN (RHU) AS	DTQ-29U1SCV	
133	C404	CEXA2D229E	C ELECTRO	200V RUL 2.2MF (10X16) TP	
134	C410	CMXB2G472J	C MYLAR	400V EU 4700PF J (TP)	
135	C411	CEXF2E100V	C ELECTRO	250V RSS 10MF (10X20) TP	
136	C412	CCXB3D681K	C CERA	2KV B 680PF K (TAPPING)	
137	C417	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
138	C419	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	
139	C613	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
140	C804	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	
141	C805	CH1BEE472M	C CERA AC	U/C/V 2.5KV 4700PF TP	
142	C807	CBXB3D102K	C CERA SEMI	2KV BL(N) 1000PF K (T)	
143	C814	CCXB3D221K	C CERA	2KV B 220PF K (TAPPING)	
144	C815	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
145	C816	CEXF2C101C	C ELECTRO	160V RUS 100MF (16X25) TP	
146	C817	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	
147	C818	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
148	C820	CEXF2C101C	C ELECTRO	160V RUS 100MF (16X25) TP	
149	C835	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
150	C842	CBXB3D471K	C CERA SEMI	2KV BL(N) 470PF K (T)	
151	C852	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
152	ZZ200	PTMPJBK142	PCB MAIN M-10 AS	DTQ-29U1SCV	
153	10	2TM18006BE	TAPE MASKING	6.2X500	
154	N004	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
155	N005	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
156	N006	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
157	N007	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
158	N008	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
159	N009	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)	
160	P601	485923172S	CONN WAFER	YW025-04 (STICK)	
161	P705	485923172S	CONN WAFER	YW025-04 (STICK)	
162	P902	485923172S	CONN WAFER	YW025-04 (STICK)	
163	PA907	485923182S	CONN WAFER	YW025-05 (STICK)	
164	R106	RS02Z512JS	R M-OXIDE FILM	2W 5.1K OHM J SMALL	
165	R305	RS02Z129JS	R M-OXIDE FILM	2W 1.2 OHM J SMALL	
166	R401	RS02Z100JS	R M-OXIDE FILM	2W 10 OHM J SMALL	
167	R402	RS02Z121JS	R M-OXIDE FILM	2W 120 OHM J SMALL	
168	R407	RS02Z223JS	R M-OXIDE FILM	2W 22K OHM J SMALL	
169	R408	RS02Z102JS	R M-OXIDE FILM	2W 1K OHM J SMALL	
170	R409	RS01Z103J-	R M-OXIDE FILM	1W 10K OHM J (TAPPING)	
171	R411	RS01Z229J-	R M-OXIDE FILM	1W 2.2 OHM J (TAPPING)	
172	R414	RF01Z828JA	R FUSIBLE	1W 0.82 OHM J A CURVE	
173	R416	RF01Z338K-	R FUSIBLE	1W 0.33 OHM K (TAPPING)	
174	R417	RS01Z229J-	R M-OXIDE FILM	1W 2.2 OHM J (TAPPING)	
175	R802	RS02Z913JS	R M-OXIDE FILM	2W 91K OHM J SMALL	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
176	R829	RS02Z309JS	R M-OXIDE FILM	2W 3 OHM J SMALL	
177	R836	RS02Z109JS	R M-OXIDE FILM	2W 1 OHM J SMALL	
178	ZZ200	PTMPJRK142	PCB MAIN RADIAL AS	DTQ-29U1SCV	
179	C101	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
180	C102	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
181	C103	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
182	C104	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
183	C105	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
184	C106	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
185	C112	CMXM2A682J	C MYLAR	100V 6800PF J (TP)	
186	C114	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
187	C115	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
188	C116	CCXF1H223Z	C CERA	50V F 0.022MF Z (TAPPING)	
189	C117	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
190	C119	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
191	C122	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
192	C123	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
193	C124	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
194	C125	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
195	C127	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
196	C128	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
197	C130	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
198	C131	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)	
199	C201	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
200	C202	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
201	C204	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
202	C301	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
203	C305	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
204	C306	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
205	C307	CCXF1H473Z	C CERA	50V F 0.047MF Z (TAPPING)	
206	C308	CCXF1H473Z	C CERA	50V F 0.047MF Z (TAPPING)	
207	C402	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
208	C403	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
209	C405	CCXB2H561K	C CERA	500V B 560PF K (TAPPING)	
210	C413	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
211	C414	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
212	C416	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
213	C418	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
214	C420	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
215	C422	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	
216	C423	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
217	C601	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
218	C602	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
219	C603	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
220	C604	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
221	C605	CMXM2A682J	C MYLAR	100V 6800PF J (TP)	
222	C606	CMXM2A682J	C MYLAR	100V 6800PF J (TP)	
223	C607	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
224	C608	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
225	C609	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
226	C610	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
227	C614	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
228	C619	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	
229	C620	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
230	C622	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
231	C623	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
232	C624	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
233	C625	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
234	C626	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
235	C627	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
236	C628	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
237	C629	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
238	C701	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
239	C704	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
240	C705	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
241	C707	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
242	C713	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
243	C716	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
244	C721	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
245	C722	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
246	C723	CEXF1H229V	C ELECTRO	50V RSS 2.2MF (5X11) TP	
247	C724	CXCH1H809D	C CERA	50V CH 8PF D (TAPPING)	
248	C725	CXCH1H809D	C CERA	50V CH 8PF D (TAPPING)	
249	C726	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
250	C727	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
251	C729	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
252	C730	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
253	C731	CEXF1E470V	C ELECTRO	25V RSS 47MF (5X11) TP	
254	C732	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
255	C734	CMXL1J224J	C MYLAR	63V MEU 0.22MF J (TP)	
256	C735	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
257	C737	CBXF1H104Z	C CERA SEMI	50V F 0.1MF Z (TAPPING)	
258	C740	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
259	C809	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
260	C810	CCXF1H223Z	C CERA	50V F 0.022MF Z (TAPPING)	
261	C811	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
262	C812	CCXB1H821K	C CERA	50V B 820PF K (TAPPING)	
263	C813	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)	
264	C821	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
265	C824	CMXL1J154J	C MYLAR	63V MEU 0.15MF J	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
266	C826	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
267	C827	CEXF1C331V	C ELECTRO	16V RSS 330MF (8X11.5) TP	
268	C828	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
269	C834	CMXL1J104J	C MYLAR	63V MEU 0.1MF J	
270	C836	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
271	C837	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
272	CA07	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)	
273	CA08	CCXB1H102K	C CERA	50V B 1000PF K (TAPPING)	
274	CV12	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
275	F801	5FWPS5022L	FUSE	WIDE TL 250V 5A CASE	
276	I804	1K1A431B—	IC REGULATOR(SHUNT)	KIA431B 2.495V 0.5% TO-92	
277	L808	58C0000142	COIL CHOKE	ELC 0809 940K	
278	Q101	TKTC3198Y-	TR	KTC3198Y	
279	Q201	TKTA1266Y-	TR	KTA1266Y (TP)	
280	Q602	TKTA1266Y-	TR	KTA1266Y (TP)	
281	Q704	TKTC3198Y-	TR	KTC3198Y	
282	Q705	TKTA1270Y-	TR	KTA1270Y (TP)	
283	Q706	TKTC3198Y-	TR	KTC3198Y	
284	Q707	TKTA1270Y-	TR	KTA1270Y (TP)	
285	Q708	TKTC3198Y-	TR	KTC3198Y	
286	Q801	TKTC3203Y-	TR	KTC3203-Y	
287	Q804	TKTC3198Y-	TR	KTC3198Y	
288	Q805	TKTC3198Y-	TR	KTC3198Y	
289	QV01	TKTC3198Y-	TR	KTC3198Y	
290	QV02	TKTA1266Y-	TR	KTA1266Y (TP)	
291	R302	RN02B181JS	R METAL FILM	2W 180 OHM J SMALL	
292	R403	RN01B472JS	R METAL FILM	1W 4.7K OHM J SMALL	
293	SW701	5S50101090	SW TACT	THVH472GCA	
294	SW702	5S50101090	SW TACT	THVH472GCA	
295	SW703	5S50101090	SW TACT	THVH472GCA	
296	SW704	5S50101090	SW TACT	THVH472GCA	
297	SW705	5S50101090	SW TACT	THVH472GCA	
298	SW706	5S50101090	SW TACT	THVH472GCA	
299	ZZ200	PTMPJAK142	PCB MAIN AXIAL AS	DTQ-29U1SCV	
300	10	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
301	20	2TM10006LB	TAPE MASKING	3M #232-MAP-C 6.2X2000M	
302	A001	4859818691	PCB MAIN	330X246 D1B	
303	C107	CZSL1H470J	C CERA	50V SL 47PF J (AXIAL)	
304	C108	CZSL1H470J	C CERA	50V SL 47PF J (AXIAL)	
305	C109	CCZF1H103Z	C CERA	50V F 0.01MF Z	
306	C110	CCZB1H222K	C CERA	50V B 2200PF K AXIAL	
307	C111	CCZB1H222K	C CERA	50V B 2200PF K AXIAL	
308	C126	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
309	C129	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
310	C203	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
311	C205	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
312	C206	CCZB1H472K	C CERA	HIKB 50V 4700PF K AXIAL	
313	C612	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
314	C702	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
315	C703	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
316	C706	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
317	C712	CCZB1H561K	C CERA	50V B 560PF K	
318	C714	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
319	C715	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
320	C717	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
321	C719	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
322	C720	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
323	C728	CCZF1H103Z	C CERA	50V F 0.01MF Z	
324	C733	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
325	C736	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
326	C738	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
327	C739	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
328	CA03	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
329	CA04	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
330	CA05	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
331	CA06	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
332	CV13	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
333	CV14	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
334	CV15	CBZF1H104Z	C CERA SEMI	50V F 0.1MF Z	
335	D101	DUZ33B—	DIODE ZENER	UZ-33B	
336	D301	D1N4937G—	DIODE	1N4937G (TAPPING)	
337	D401	D1N4937G—	DIODE	1N4937G (TAPPING)	
338	D404	DUZ9R1BM—	DIODE ZENER	UZ-9.1BM	
339	D405	D1N4937G—	DIODE	1N4937G (TAPPING)	
340	D406	D1N4937G—	DIODE	1N4937G (TAPPING)	
341	D407	DRGP15J—	DIODE	RGP15J DO-204AC 600V 1.5A	
342	D408	DRGP15J—	DIODE	RGP15J DO-204AC 600V 1.5A	
343	D602	D1N4148—	DIODE	1N4148 (TAPPING)	
344	D701	DUZ3R9B—	DIODE ZENER	UZ-3.9B	
345	D702	D1N4148—	DIODE	1N4148 (TAPPING)	
346	D703	D1N4148—	DIODE	1N4148 (TAPPING)	
347	D706	DUZ3R3B—	DIODE ZENER	UZ-3.3B	
348	D805	D1N4937G—	DIODE	1N4937G (TAPPING)	
349	D806	D1N4937G—	DIODE	1N4937G (TAPPING)	
350	D807	D1N4937G—	DIODE	1N4937G (TAPPING)	
351	D808	DMTZJ6R2C-	DIODE ZENER	MTZJ 6.2C	
352	D810	D1N4937G—	DIODE	1N4937G (TAPPING)	
353	D812	DRGP15J—	DIODE	RGP15J DO-204AC 600V 1.5A	
354	D814	DUZ4R3B—	DIODE ZENER	UZ-4R3B	
355	D815	D1N4148—	DIODE	1N4148 (TAPPING)	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
356	DV02	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
357	DV03	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
358	DV05	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
359	DV06	DMTZJ5R6B-	DIODE ZENER	MTZJ 5.6B	
360	L101	5CPZ470K04	COIL PEAKING	47UH 10.5MM K (LAL04TB)	
361	L103	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
362	L104	5CPZ479K04	COIL PEAKING	4.7UH K (AXIAL 10.5MM)	
363	L201	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
364	L301	5MC0000100	COIL BEAD	HC-3550	
365	L302	5MC0000100	COIL BEAD	HC-3550	
366	L403	5MC0000100	COIL BEAD	HC-3550	
367	L701	5CPZ479K04	COIL PEAKING	4.7UH K (AXIAL 10.5MM)	
368	L702	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
369	L703	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
370	L704	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
371	L705	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
372	L706	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
373	L707	5CPZ479K04	COIL PEAKING	4.7UH K (AXIAL 10.5MM)	
374	L709	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
375	L714	5CPZ479K02	COIL PEAKING	4.7UH K (AXIAL 3.5MM)	
376	L803	5MC0000100	COIL BEAD	HC-3550	
377	L804	5MC0000100	COIL BEAD	HC-3550	
378	L805	5MC0000100	COIL BEAD	HC-3550	
379	L806	5MC0000100	COIL BEAD	HC-3550	
380	R101	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
381	R102	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
382	R103	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
383	R104	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	
384	R105	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
385	R107	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
386	R108	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
387	R111	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	
388	R112	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
389	R113	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
390	R114	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
391	R119	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J	
392	R121	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
393	R201	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
394	R203	RN-AZ1801F	R METAL FILM	1/6 1.8K OHM F	
395	R204	RD-4Z222J-	R CARBON FILM	1/4 2.2K OHM J	
396	R213	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
397	R301	RD-4Z159J-	R CARBON FILM	1/4 1.5 OHM J	
398	R303	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
399	R304	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J	
400	R306	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
401	R307	RN-AZ2201F	R METAL FILM	1/6 2.2K OHM F	
402	R308	RD-4Z514J-	R CARBON FILM	1/4 510K OHM J	
403	R310	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
404	R311	RD-4Z563J-	R CARBON FILM	1/4 56K OHM J	
405	R312	RN-AZ2201F	R METAL FILM	1/6 2.2K OHM F	
406	R313	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
407	R314	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
408	R404	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
409	R405	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
410	R406	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	
411	R410	RN-AZ9101F	R METAL FILM	1/6 9.1K OHM F	
412	R412	RN-AZ1202F	R METAL FILM	1/6 12K OHM F	
413	R413	RD-4Z470J-	R CARBON FILM	1/4 47 OHM J	
414	R418	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
415	R601	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	
416	R602	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
417	R604	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J	
418	R605	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
419	R606	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J	
420	R607	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
421	R609	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	
422	R610	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
423	R612	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
424	R613	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	
425	R614	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	
426	R615	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	
427	R616	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	
428	R620	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
429	R622	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
430	R623	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
431	R624	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
432	R625	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
433	R626	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
434	R627	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
435	R628	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
436	R629	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
437	R630	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
438	R632	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
439	R633	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
440	R634	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
441	R635	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
442	R636	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
443	R701	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
444	R702	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
445	R703	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
446	R704	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
447	R705	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
448	R707	RN-AZ5600F	R METAL FILM	1/6 560 OHM F	
449	R708	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
450	R709	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J	
451	R710	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
452	R712	RD-4Z222J-	R CARBON FILM	1/4 2.2K OHM J	
453	R713	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	
454	R714	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
455	R719	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
456	R720	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
457	R722	RD-AZ100J-	R CARBON FILM	1/6 10 OHM J	
458	R723	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
459	R725	RD-AZ513J-	R CARBON FILM	1/6 51K OHM J	
460	R726	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
461	R727	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
462	R729	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
463	R730	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
464	R732	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
465	R733	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
466	R735	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
467	R736	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
468	R742	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	
469	R743	RD-AZ151J-	R CARBON FILM	1/6 150 OHM J	
470	R744	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	
471	R745	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J	
472	R746	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
473	R747	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J	
474	R748	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
475	R769	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
476	R770	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
477	R772	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
478	R773	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
479	R774	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
480	R775	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
481	R776	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
482	R777	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	
483	R778	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
484	R779	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
485	R780	RN-AZ5600F	R METAL FILM	1/6 560 OHM F	
486	R803	RD-4Z479J-	R CARBON FILM	1/4 4.7 OHM J	
487	R804	RD-4Z152J-	R CARBON FILM	1/4 1.5K OHM J	
488	R805	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J	
489	R806	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J	
490	R807	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	

ELECTRICAL PARTS LIST

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
491	R808	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
492	R809	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
493	R819	RN-4Z1003F	R METAL FILM	1/4 100K OHM F	
494	R820	RN-4Z1502F	R METAL FILM	1/4 15K OHM F	
495	R823	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
496	R824	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J	
497	R826	RN-AZ2201F	R METAL FILM	1/6 2.2K OHM F	
498	R827	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
499	R830	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
500	R832	RD-AZ752J-	R CARBON FILM	1/6 7.5K OHM J	
501	R833	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
502	R834	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
503	R835	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
504	R873	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J	
505	RA03	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
506	RA04	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
507	RA05	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
508	RA06	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
509	RA07	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
510	RA08	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J	
511	RS801	RC-2Z225KP	R CARBON COMP	1/2 2.2M OHM K	
512	RS821	RC-2Z225KP	R CARBON COMP	1/2 2.2M OHM K	
513	RV01J	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
514	RV02	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
515	RV03	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
516	RV04	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
517	RV05	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
518	RV06	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
519	RV09	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
520	RV10	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
521	RV11	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
522	RV12	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J	
523	RV13	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
524	RV14	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
525	RV15	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
526	RV16	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
527	RV17	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
528	ZA03	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
529	ZA04	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
530	ZA05	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
531	ZA07	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
532	ZA08	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
533	ZZ300	PTCPMSK142	PCB CRT MANUAL AS	DTQ-29U1SCV	
534	10	2193102005	SOLDER BAR	SN:PB=63:37 S63S-1320	
535	30	2291050616	FLUX SOLDER	JS-64T3	

ELECTRICAL PARTS LIST

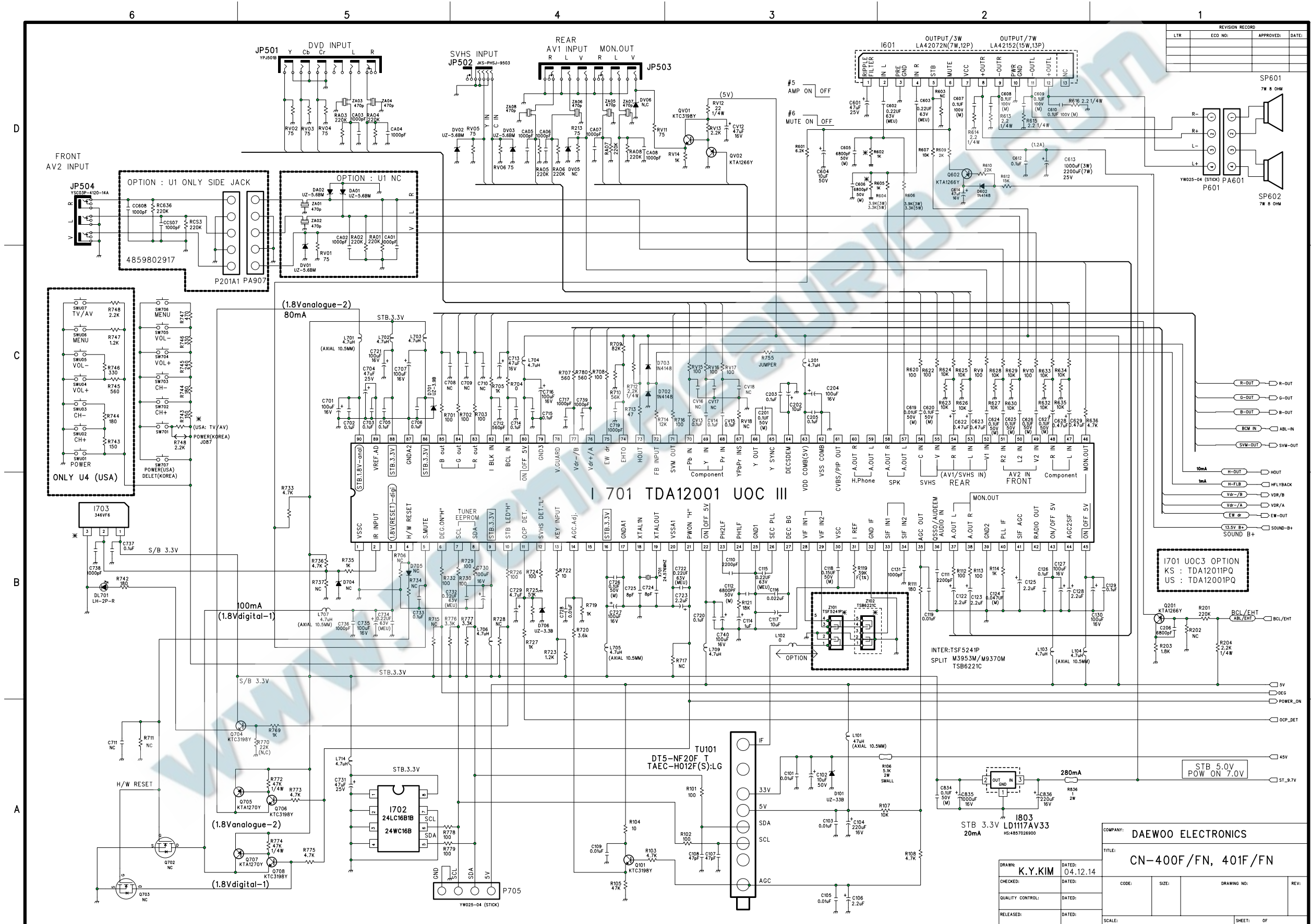
NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
536	40	2291050301	FLUX SOLVENT	IM-1000	
537	I901	PTE3SW1100	HEAT SINK ASS'Y	1TDA6107AJ + 7174300811	
538	00001	1TDA6107AJ	IC VIDEO	TDA6107AJF	
539	0000A	4857031100	HEAT SINK	A1050P-H24 T2.0	
540	0000B	7174300811	SCREW TAPPTITE	TT2 RND 3X8 MFZN	
541	P903	4859238620	CONN WAFER	YPW500-02	
542	PA902	4850704S04	CONNECTOR	YH025-04+YST025+ULW=400	
543	SCT1	4859303530	SOCKET CRT	PCS629-03C	
544	ZZ200	PTCPJ0K142	PCB CRT ODD SHAPE AS	DTQ-29U1SCV	
545	C904	CEXF2E479V	C ELECTRO	250V RSS 4.7MF (10X16)TP	
546	C905	CEXF2E479V	C ELECTRO	250V RSS 4.7MF (10X16)TP	
547	C926	CBXB3D102K	C CERA SEMI	2KV BL(N) 1000PF K (T)	
548	ZZ200	PTCPJBK142	PCB CRT M-10 AS	DTQ-29U1SCV	
549	10	2TM18006BE	TAPE MASKING	6.2X500	
550	P906	485923512S	CONN WAFER	YW025-08 (STICK)	
551	R911	RS02Z151JS	R M-OXIDE FILM	2W 150 OHM J SMALL	
552	R914	RF01Z109J-	R FUSIBLE	1W 1 OHM J (TAPPING)	
553	ZZ200	PTCPJRK142	PCB CRT RADIAL AS	DTQ-29U1SCV	
554	C902	CCXB1H561K	C CERA	50V B 560PF K (TAPPING)	
555	C903	CMXL2E104K	C MYLAR	250V MEU 0.1MF K	
556	C922	4SG0DX0001	SPARK GAP	SSG-102-A1(1.0KV) TAP	
557	C923	4SG0DX0001	SPARK GAP	SSG-102-A1(1.0KV) TAP	
558	C924	4SG0DX0001	SPARK GAP	SSG-102-A1(1.0KV) TAP	
559	C925	4SG0DX0001	SPARK GAP	SSG-102-A1(1.0KV) TAP	
560	ZZ200	PTCPJAK142	PCB CRT AXIAL AS	DTQ-29U1SCV	
561	10	2TM14006LB	TAPE MASKING	3M #232 6.0X2000M	
562	20	2TM10006LB	TAPE MASKING	3M #232-MAP-C 6.2X2000M	
563	A001	4859830213	PCB CRT	108X61.5(246X246) D1B	
564	D905	D1N4004S—	DIODE	1N4004S	
565	D906	D1N4004S—	DIODE	1N4004S	
566	D907	D1N4004S—	DIODE	1N4004S	
567	D908	DLT2A05G—	DIODE	LT2A05G (TP)	
568	J901	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
569	J902	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
570	R901	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
571	R902	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
572	R903	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
573	R905	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
574	R906	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
575	R907	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
576	R908	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K	
577	R909	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K	
578	R910	RC-2Z102K-	R CARBON COMP	1/2 1K OHM K	
579	R912	RC-2Z105KP	R CARBON COMP	1/2 1M OHM K	
580	R913	RD-2Z102J-	R CARBON FILM	1/2 1K OHM J	

DIFFERENT PARTS LIST

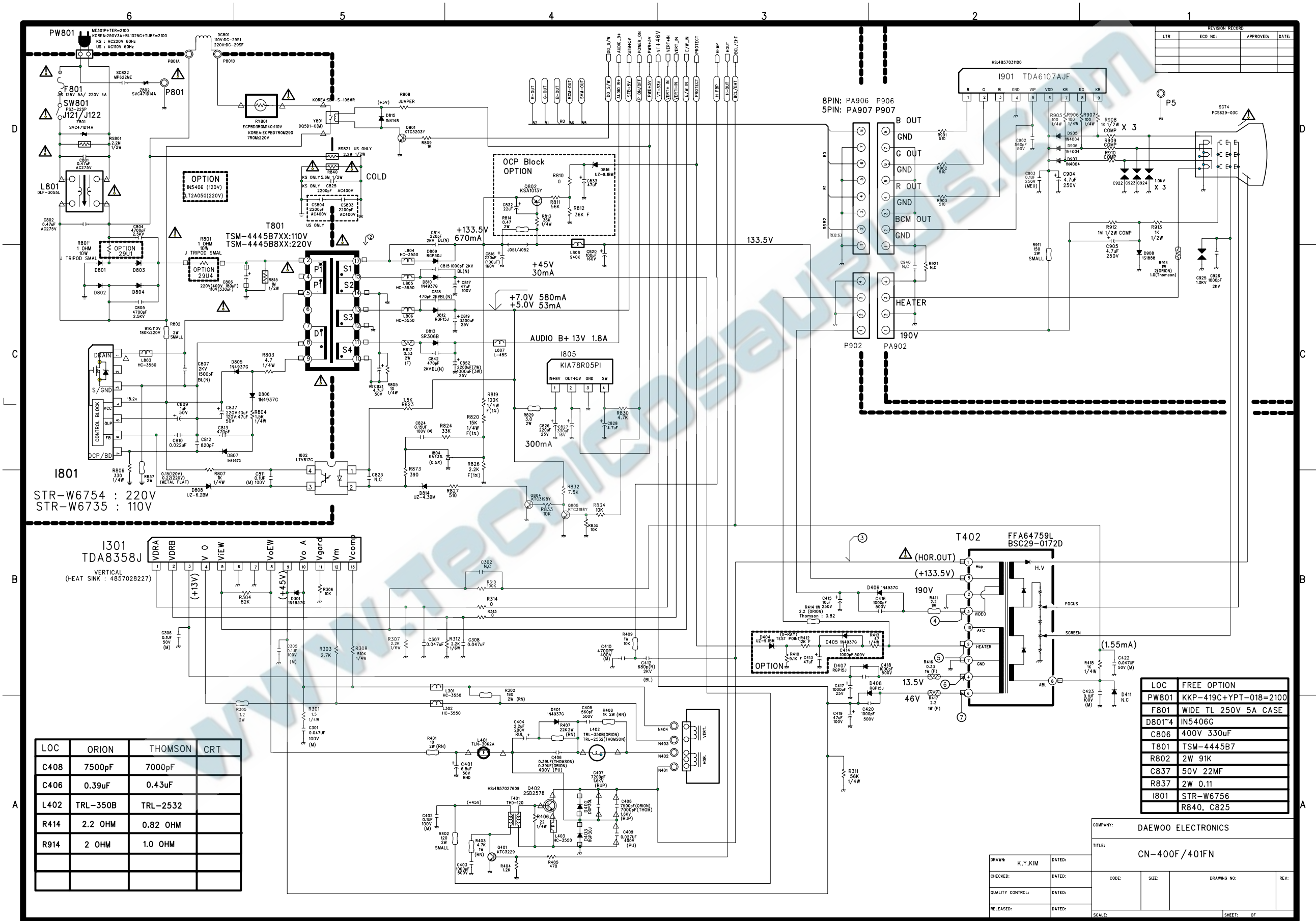
**This BOM is based on DTQ-29U1SC, it is different parts list in comparison with DTQ-29U5SC.

NO	LOC	PARTS CODE	PARTS NAME	PARTS DESCRIPTION	REMARK
1	RS821			NC	
2	CS803			NC	
3	CS804			NC	
4	R840	RC-2Z565J-	R CARBON COMP	1/2 5.6M OHM J	
5	C825	CH1BFE222M	C CERA AC	U/C/V AC400V 2200PF	
6	C806	CEYD2G331D	C ELECTRO	400V FHS 330MF (30X45)	
7	C837	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
8	I801	PTE2SW4401	HEAT SINK ASS`Y	1STRW6756- + 7174300811	
9	R810	RN-AZ5601F	R METAL FILM	1/6 5.6K OHM F	
10	R811	RD-AZ563F-	R CARBON FILM	1/6 56K OHM F (1%)	
11	R812	RN-AZ2202F	R METAL FILM	1/6 22K OHM F	
12	R813	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J	
13	R814	RW02Z478J-	R WIRE WOUND	2W 0.47 J	
14	J051			NC	
15	J052			NC	
16	Q802	TKSA1013Y-	TR	KSA1013Y (TP)	
17	C832	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
18	C833	CEXF1H470V	C ELECTRO	50V RSS 47MF (6.3X11) TP	
19	D416	DUZ9R1BM—	DIODE ZENER	UZ-9.1BM	

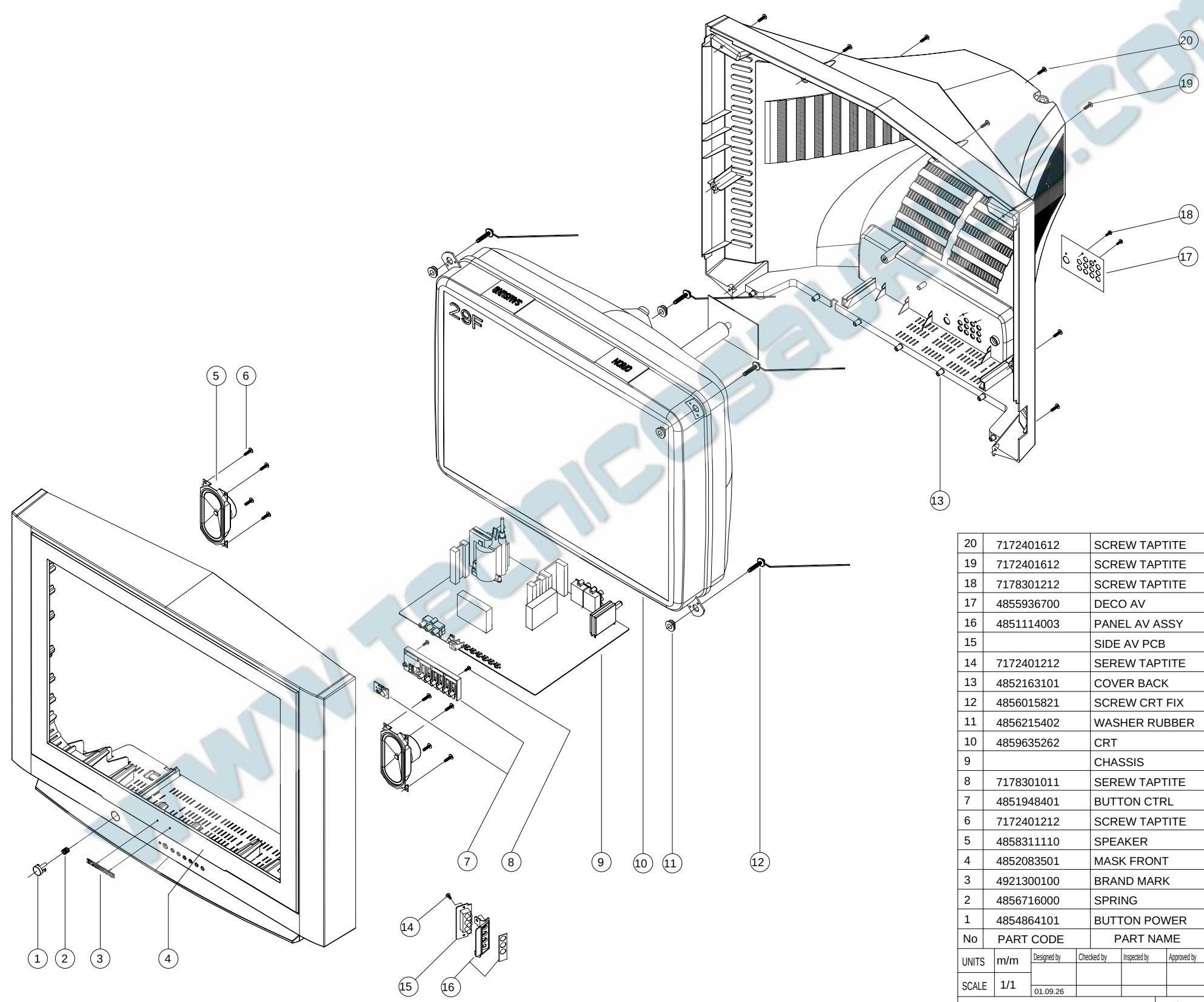
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM

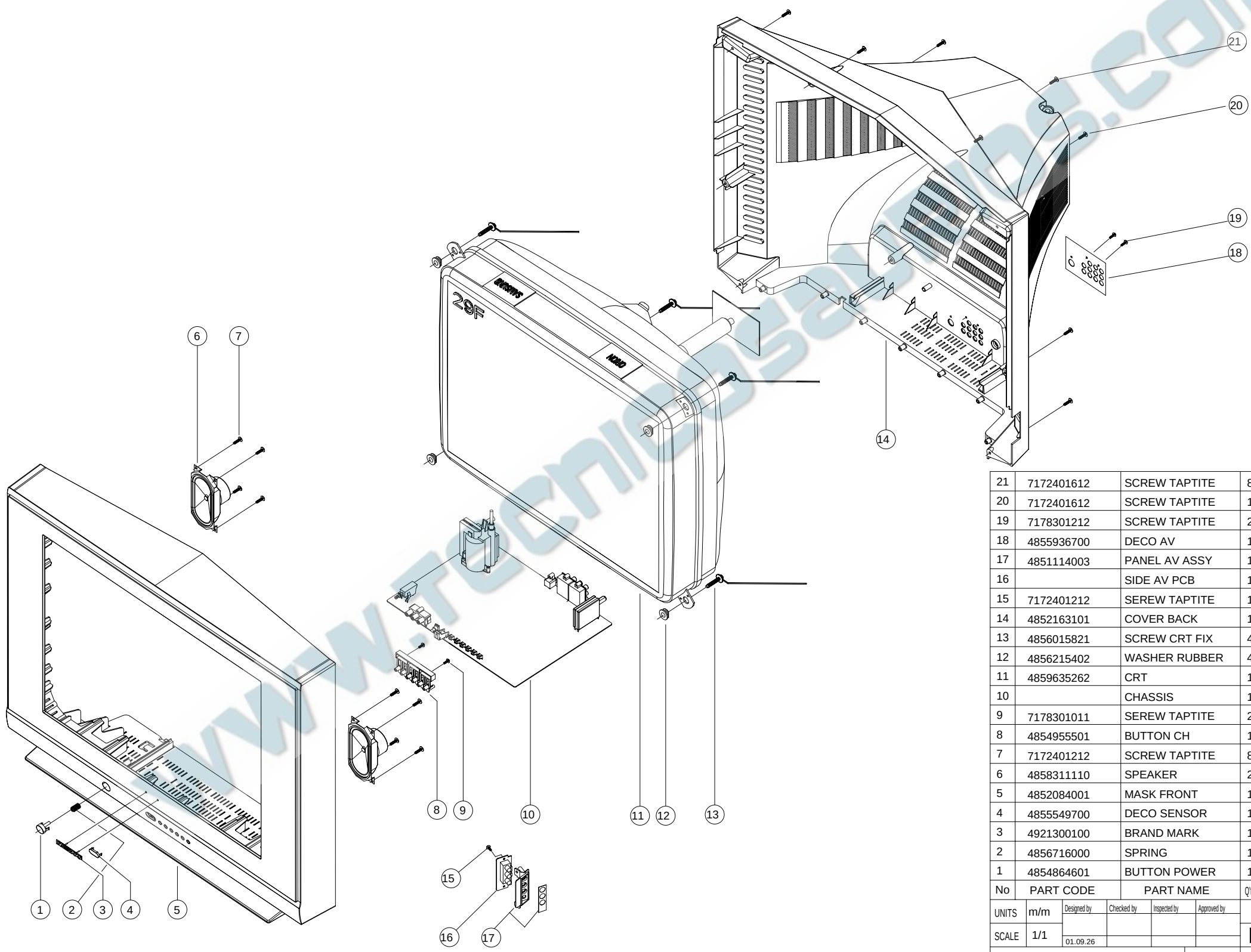


EXPLODE VIEW



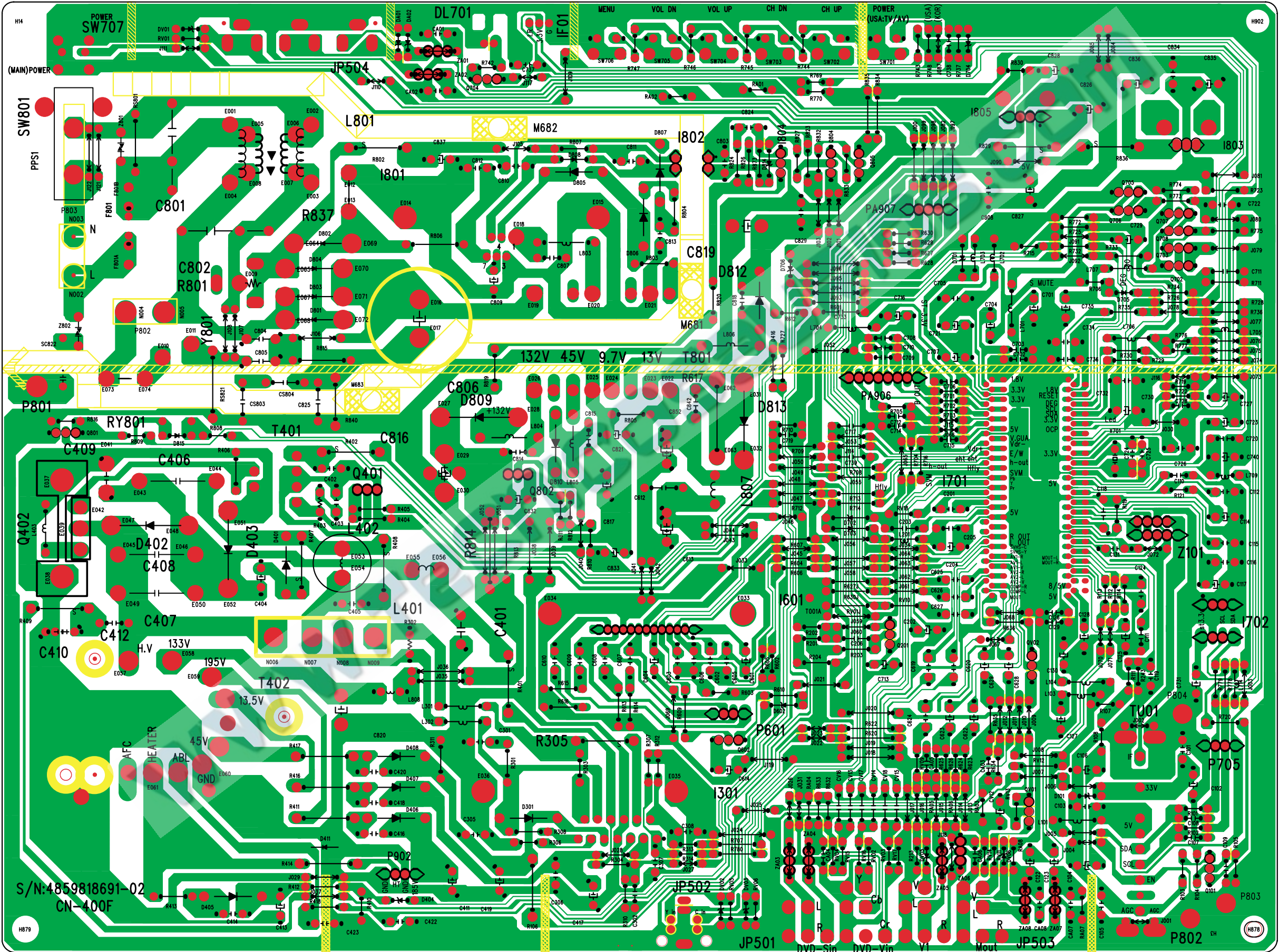
20	7172401612	SCREW TAPTITE	8	TT2 TRS 4X16 MFZN BK	
19	7172401612	SCREW TAPTITE	1	TT2 TRS 4X16 MFZN BK	
18	7178301212	SCREW TAPTITE	2	TT2 WAS 3X12 MFZN BK	
17	4855936700	DECO AV	1	PVC T0.25	
16	4851114003	PANEL AV ASSY	1	2326802+5934301	
15		SIDE AV PCB	1	CN-321	
14	7172401212	SEREW TAPTITE	1	TT2 TRS 4X12 MFZN BK	
13	4852163101	COVER BACK	1	HIPS GY	
12	4856015821	SCREW CRT FIX	4	SWRM+SK5 L=35	
11	4856215402	WASHER RUBBER	4	CR T2.0	
10	4859635262	CRT	1	29"F	
9		CHASSIS	1	CN-793F	
8	7178301011	SEREW TAPTITE	2	TT2 WAS 3X10 MFZN	
7	4851948401	BUTTON CTRL	1	4955101+5549200	
6	7172401212	SCREW TAPTITE	8	TT2 TRS 4X12 MFZN BK	
5	4858311110	SPEAKER	2	12W 8 OHM SP-58126F	
4	4852083501	MASK FRONT	1	HIPS GY	
3	4921300100	BRAND MARK	1	A1	
2	4856716000	SPRING	1	SWPA PIE0.5	
1	4854864101	BUTTON POWER	1	HIPS GY	
No	PART CODE	PART NAME	Qty	MATERIAL	REMARKS
UNITS	m/m	Designed by	Checked by	Inspected by	Approved by
SCALE	1/1	01.09.26			
DAEWOO Electronics Corp. Mechanical Design Team, TV Research Center			MODEL REFERENCE	DTQ-29U1	D N 485009KR

EXPLODE VIEW

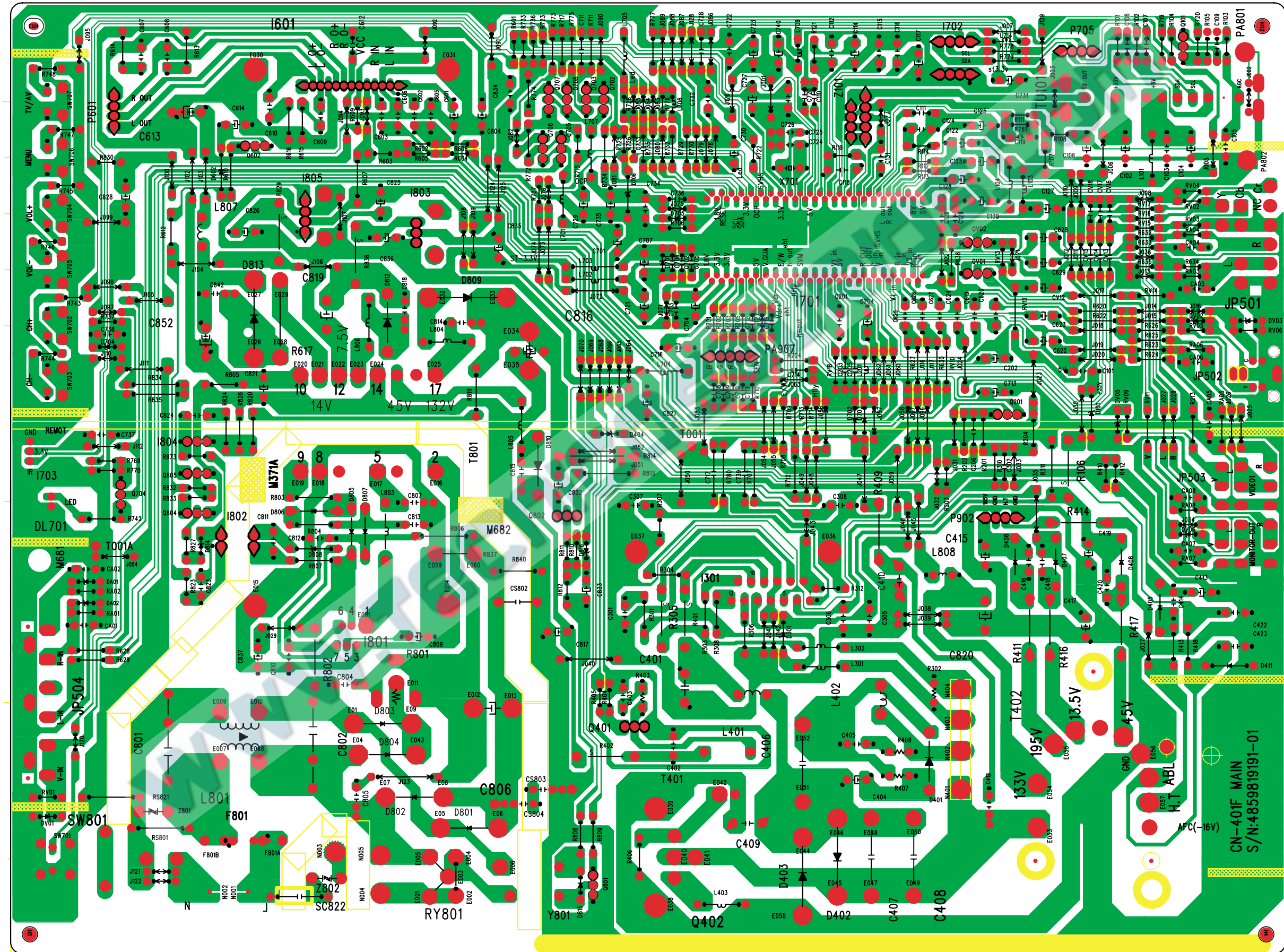


21	7172401612	SCREW TAPTITE	8	TT2 TRS 4X16 MFZN BK	
20	7172401612	SCREW TAPTITE	1	TT2 TRS 4X16 MFZN BK	
19	7178301212	SCREW TAPTITE	2	TT2 WAS 3X12 MFZN BK	
18	4855936700	DECO AV	1	PVC T0.25	
17	4851114003	PANEL AV ASSY	1	2326802+5934301	
16		SIDE AV PCB	1	CN-321	
15	7172401212	SEREW TAPTITE	1	TT2 TRS 4X12 MFZN BK	
14	4852163101	COVER BACK	1	HIPS GY	
13	4856015821	SCREW CRT FIX	4	SWRM+SK5 L=35	
12	4856215402	WASHER RUBBER	4	CR T2.0	
11	4859635262	CRT	1	29"F	
10		CHASSIS	1	CN-794F	
9	7178301011	SEREW TAPTITE	2	TT2 WAS 3X10 MFZN	
8	4854955501	BUTTON CH	1	ABS GY	
7	7172401212	SCREW TAPTITE	8	TT2 TRS 4X12 MFZN BK	
6	4858311110	SPEAKER	2	12W 8 OHM SP-58126F	
5	4852084001	MASK FRONT	1	HIPS GY	
4	4855549700	DECO SENSOR	1	PC SMOG	
3	4921300100	BRAND MARK	1	A1	
2	4856716000	SPRING	1	SWPA PIE0.5	
1	4854864601	BUTTON POWER	1	HIPS GY	
No	PART CODE	PART NAME	Qty	MATERIAL	REMARKS
UNITS	m/m	Designed by	Checked by	Inspected by	Approved by
SCALE	1/1	01.09.26			
DAEWOO Electronics Corp.		MODEL	DTQ-29U5	D	485009KU
Mechanical Design Team, TV Research Center		REFERENCE		N	
PART NAME					
DEVELOPMENT DWG					

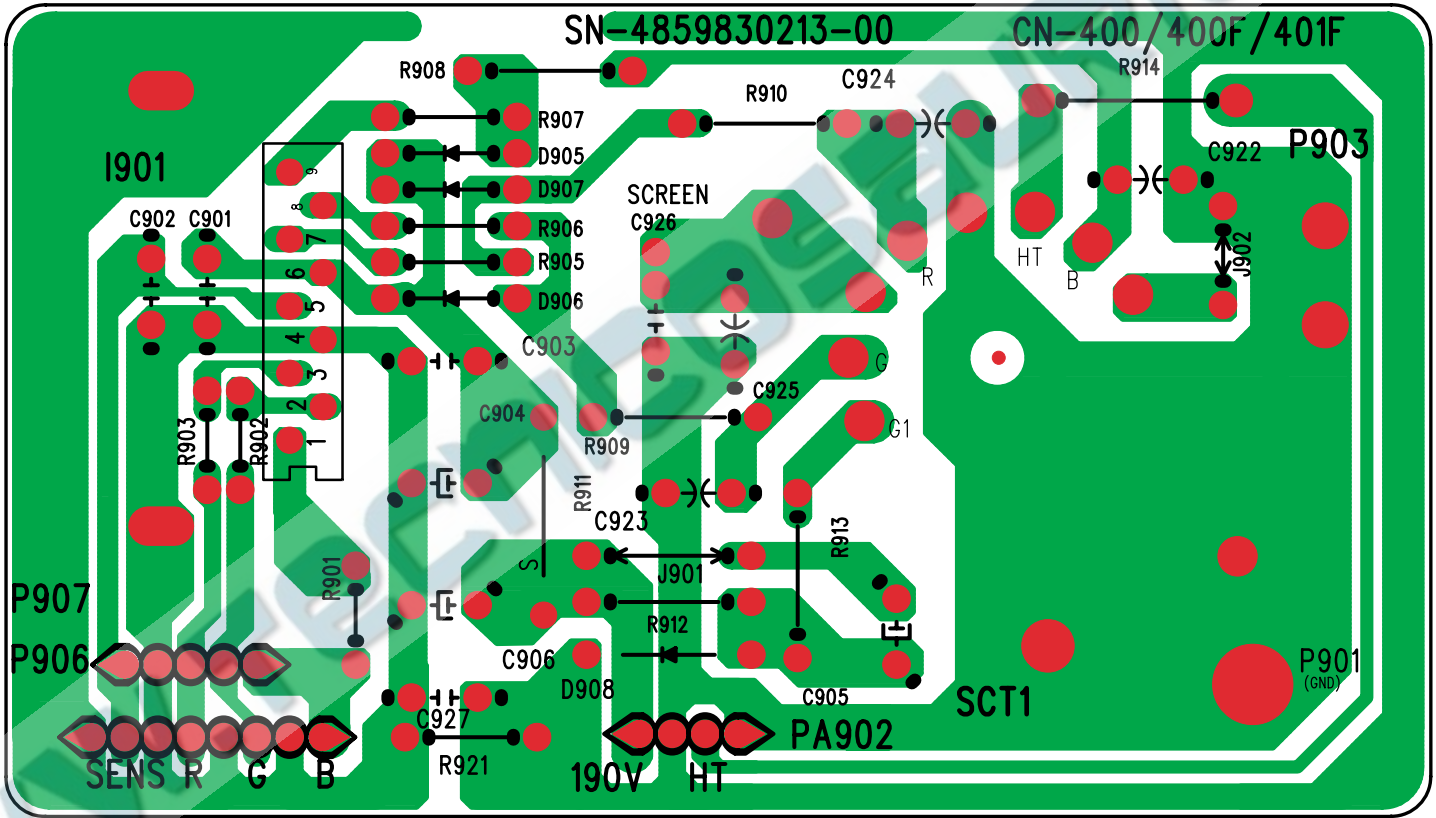
PRINTED CIRCUIT BOARD (CN-400FN)



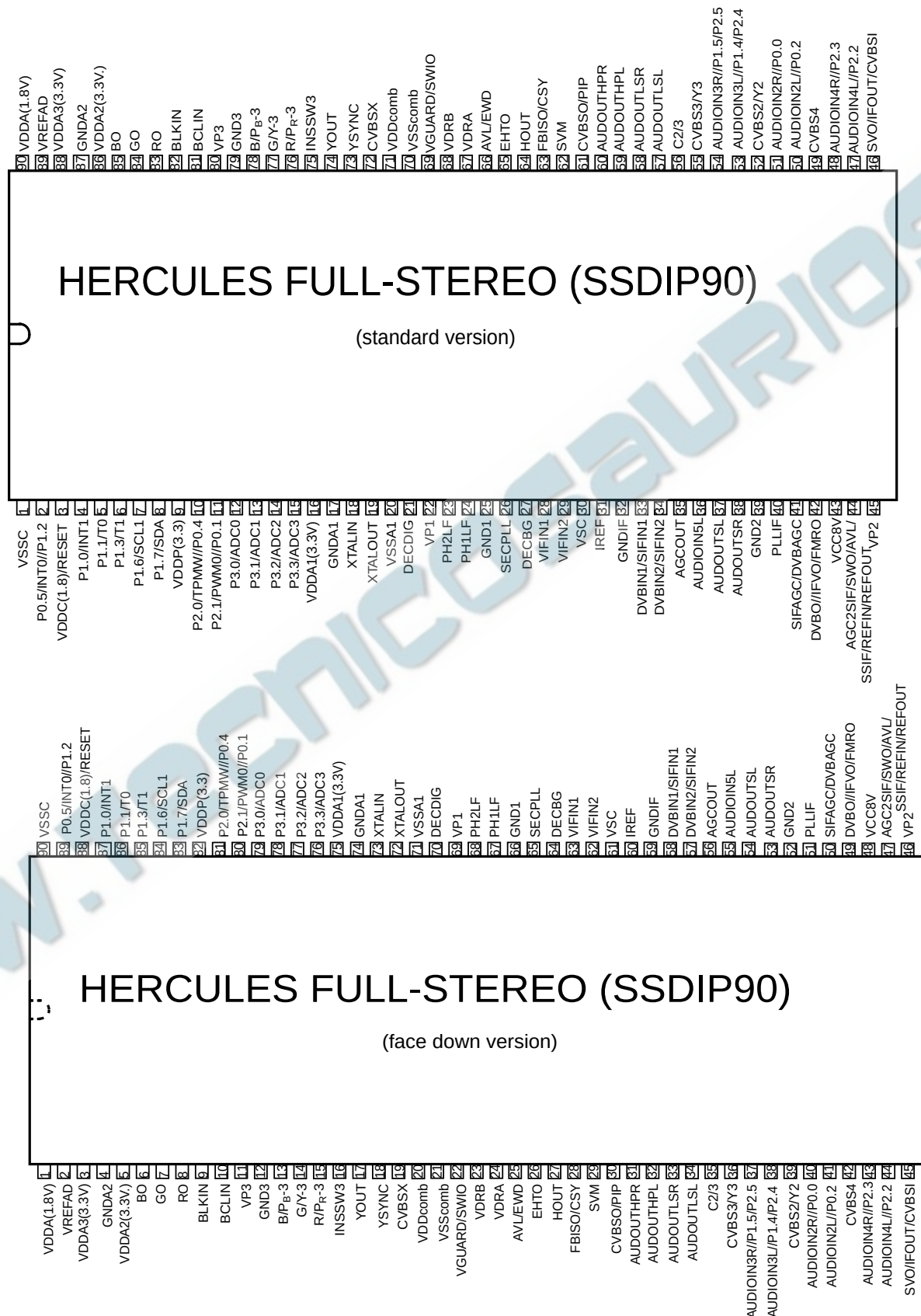
PRINTED CIRCUIT BOARD (CN-401FN)



PRINTED CIRCUIT BOARD (CRT)



1. Pin Congiguration



2. Pin Description

SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	
VSSP2	1	1		128	90		ground
VSSC4	2	1		127	90		ground
VDDC4	3	3		126	88		digital supply to SDACs (1.8V)
VDDA3(3.3V)	4	16		125	75		supply (3.3 V)
VREF_POS_LSL	5	16		124	75		positive reference voltage SDAC (3.3 V)
VREF_NEG_LSL+HPL	6	17		123	74		negative reference voltage SDAC (0 V)
VREF_POS_LSR+HPR	7	16		122	75		positive reference voltage SDAC (3.3 V)
VREF_NEG_HPL+HPR	8	17		121	74		negative reference voltage SDAC (0 V)
VREF_POS_HPR	9	16		120	75		positive reference voltage SDAC (3.3 V)
XTALIN	10	18		119	73		crystal oscillator input
XTALOUT	11	19		118	72		crystal oscillator output
VSSA1	12	20		117	71		ground
VGUARD/SWIO	13	69		116	22		V-guard input / I/O switch (e.g. 4 mA current sinking capability for direct drive of LEDs)
DECDIG	14	21		115	70		decoupling digital supply
VP1	15	22		114	69		1 st supply voltage TV-processor (+5 V)
PH2LF	16	23		113	68		phase-2 lter
PH1LF	17	24		112	67		phase-1 lter
GND1	18	25		111	66		ground 1 for TV-processor
SECPLL	19	26		110	65		SECAM PLL decoupling
DECBG	20	27		109	64		bandgap decoupling
EWD/AVL ⁽¹⁾	21	66		108	25		East-West drive output or AVL capacitor
VDRB	22	68		107	23		vertical drive B output
VDRA	23	67		106	24		vertical drive A output
VIFIN1	24	28		105	63		IF input 1

SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	
VIFIN2	25	29		104	62		IF input 2
VSC	26	30		103	61		vertical sawtooth capacitor
IREF	27	31		102	60		reference current input
GNDIF	28	32		101	59		ground connection for IF amplifier
SIFIN1/DVBIN1 ⁽²⁾	29	33		100	58		SIF input 1 / DVB input 1
SIFIN2/DVBIN2 ⁽²⁾	30	34		99	57		SIF input 2 / DVB input 2
AGCOUT	31	35		98	56		tuner AGC output
EHTO	32	65		97	26		EHT/overvoltage protection input
AVL/SWO/SSIF/ REFO/REFIN ⁽²⁾	33	44		96	47		Automatic Volume Levelling / switch output / sound IF input / subcarrier reference output / external reference signal input for I signal mixer for DVB operation
AUDIOIN5	-	-		-	-		audio 5 input
AUDIOIN5L	34	36/-		95	55/-		audio-5 input (left signal)
AUDIOIN5R	35	-		94	-		audio-5 input (right signal)
AUDOUTSL	36	37		93	54		audio output for SCART/CINCH (left signal)
AUDOUTSR	37	38		92	53		audio output for SCART/CINCH (right signal)
DECSDEM	38	-/72		91	-/19		decoupling sound demodulator
QSSO/AMOUT/AUDEEM ⁽²⁾	39	-/36		90	-/55		QSS intercarrier output / AM output / deemphasis (front-end audio out)
GND2	40	39		89	52		ground 2 for TV processor
PLLIF	41	40		88	51		IF-PLL loop filter
SIFAGC/DVBAGC ⁽²⁾	42	41		87	50		AGC sound IF / internal-external AGC for DVB applications
DVBO/IFVO/FMRO ⁽²⁾	43	42		86	49		Digital Video Broadcast output / IF video output / FM radio output
DVBO/FMRO ⁽²⁾	44	-		85	-		Digital Video Broadcast output / FM radio output
VCC8V	45	43		84	48		8 Volt supply for audio switches

SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90 FULL-STEREO/	MONO	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90 FULL-STEREO/	MONO	
AGC2SIF	46	44/-		83	47/-		AGC capacitor second sound IF
VP2	47	45		82	46		2 nd supply voltage TV processor (+5 V)
IFVO/SVO/CVBSI ⁽²⁾	48	46		81	45		IF video output / selected CVBS output / CVBS input
AUDIOIN4	-	-		-	-		audio 4 input
AUDIOIN4L	49	47		80	44		audio-4 input (left signal)
AUDIOIN4R	50	48		79	43		audio-4 input (right signal)
CVBS4/Y4	51	49		78	42		CVBS4/Y4 input
C4	52	-		77	-		chroma-4 input
AUDIOIN2	-	-		-	-		audio 2 input
AUDIOIN2L	53	50		76	41		audio 2 input (left signal)
AUDIOIN2R	54	51		75	40		audio 2 input (right signal)
CVBS2/Y2	55	52		74	39		CVBS2/Y2 input
AUDIOIN3	-	-		-	-		audio 3 input
AUDIOIN3L	56	53		73	38		audio 3 input (left signal)
AUDIOIN3R	57	54		72	37		audio 3 input (right signal)
CVBS3/Y3	58	55		71	36		CVBS3/Y3 input
C2/C3	59	56		70	35		chroma-2/3 input
AUDOUTLSL	60	57		69	34		audio output for audio power amplifier (left signal)
AUDOUTLSR	61	58		68	33		audio output for audio power amplifier (right signal)
AUDOUT/AMOUT/FMOUT	-	-		-	-		audio output / AM output / FM output, volume controlled
AUDOUTHPL	62	59		67	32		audio output for headphone channel (left signal)
AUDOUTHPR	63	60		66	31		audio output for headphone channel (right signal)
CVBSO/PIP	64	61		65	30		CVBS / PIP output

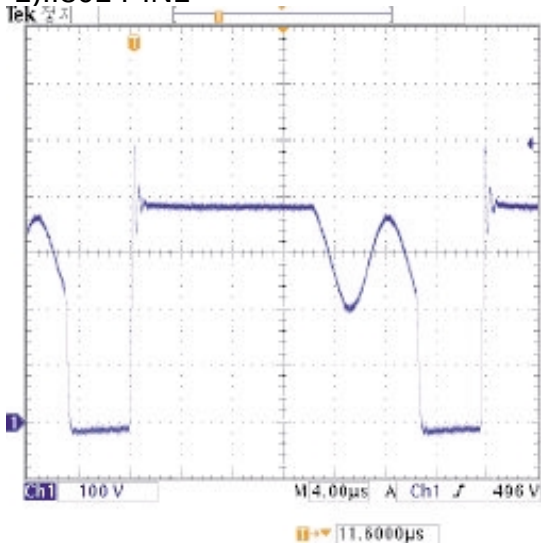
SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90 FULL-STEREO/	MONO	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90 FULL-STEREO/	MONO	
SVM	65	62		64	29		scan velocity modulation output
FBISO/CSY	66	63		63	28		Y-back input/sandcastle output or composite H/V timing output
HOUT	67	64		62	27		horizontal output
VSScomb	68	70		61	21		ground connection for comb filter
VDDcomb	69	71		60	20		supply voltage for comb filter (5 V)
VIN (R/P _R IN2/C _X)	70	-		59	-		V-input for YUV interface (2 nd R input / P _R input or C _X input)
UIN (B/PBIN2)	71	-		58	-		U-input for YUV interface (2 nd B input / PB input)
YIN (G/YIN2/CVBS-Y _X)	72	72/-		57	19/-		Y-input for YUV interface (2 nd G input / Y input or CVBS/Y _X input)
YSYNC	73	73		56	18		Y-input for sync separator
YOUT	74	74		55	17		Y-output (for YUV interface)
UOUT (INSSW2)	75	-		54	-		U-output for YUV interface (2 nd RGB / YP _B P _R insertion input)
VOUT (SWO1)	76	-		53	-		V-output for YUV interface (general purpose switch output)
INSSW3	77	75		52	16		3 rd RGB / YP _B P _R insertion input
R/P _R IN3	78	76		51	15		3 rd R input / P _R input
G/YIN3	79	77		50	14		3 rd G input / Y input
B/P _B IN3	80	78		49	13		3 rd B input / P _B input
GND3	81	79		48	12		ground 3 for TV-processor
VP3	82	80		47	11		3 rd supply for TV processor
BCLIN	83	81		46	10		beam current limiter input
BLKIN	84	82		45	9		black current input
RO	85	83		44	8		Red output
GO	86	84		43	7		Green output
BO	87	85		42	6		Blue output

SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90	MONO	STEREO + AV STEREO QFP128	MONO+ AV STEREO SSDIP90	MONO	
VDDA1	88	86		41	5		analog supply for TCG mController and digital supply for TV-processor (+3.3 V)
VREFAD_NEG	89	87		40	4		negative reference voltage (0 V)
VREFAD_POS	90	88		39	3		positive reference voltage (3.3 V)
VREFAD	91	89		38	2		reference voltage for audio ADCs (3.3/2 V)
GNDA	92	87		37	4		ground
VDDA(1.8V)	93	90		36	1		analogue supply for audio ADCs (1.8 V)
VDDA2(3.3)	94	88		35	3		supply voltage SDAC (3.3 V)
VSSadc	95	1		34	90		ground for on-chip temperature sensor
VDDadc(1.8)	96	90		33	1		supply voltage video ADC
INT0/P0.5	97	2		32	89		external interrupt 0 or port 0.5 (4 mA current sinking capability for direct drive of LEDs)
P1.0/INT1	98	4		31	87		port 1.0 or external interrupt 1
P1.1/T0	99	5		30	86		port 1.1 or Counter/Timer 0 input
VDDC2	100	3		29	88		digital supply to core (1.8 V)
VSSC2	101	1		28	90		ground
P0.4/I2SWS	102	-		27	-		port 0.4 or I ² S word select
P0.4	-	-		-	-		port 0.4
P0.3/I2SCLK	103	-		26	-		port 0.3 or I ² S clock
P0.3	-	-		-	-		port 0.3
P0.2/I2SDO2	104	50		25	41		port 0.2 or I ² S digital output 2
P0.2	-	-		-	-		port 0.2
P0.1/I2SDO1	105	-		24	-		port 0.1 or I ² S digital output 1
P0.1	-	-		-	-		port 0.1
P0.0/I2SDI1/O	106	51		23	40		port 0.0 or I ² S digital input 1 or I ² S digital output
P0.0	-	-		-	-		port 0.0
P1.3/T1	107	6		22	85		port 1.3 or Counter/Timer 1 input

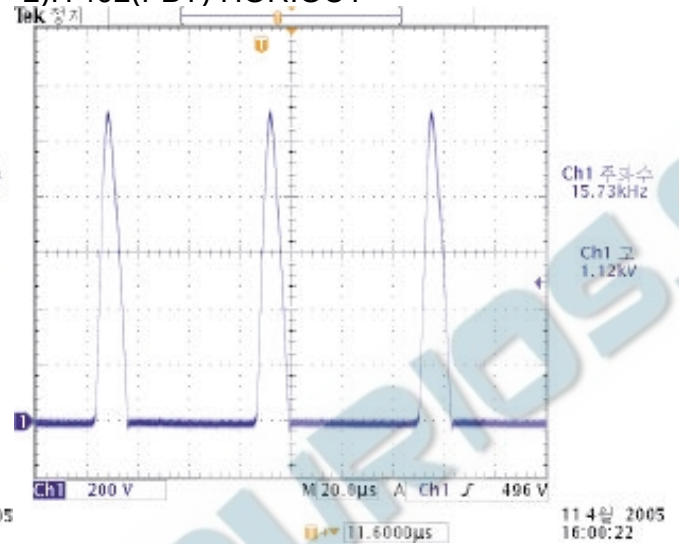
SYMBOL	STANDARD VERSION			FACE DOWN VERSION			DESCRIPTION
	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	STEREO + AV STEREO QFP128	FULL-STEREO/ MONO+ AV STEREO SSDIP90	MONO	
P1.6/SCL	108	7		21	84		port 1.6 or I ² C-bus clock line
P1.7/SDA	109	8		20	83		port 1.7 or I ² C-bus data line
VDDP(3.3V)	110	9		19	82		supply to periphery and on-chip voltage regulator (3.3 V)
P2.0/TPWM	111	10		18	81		port 2.0 or Tuning PWM output
P2.1/PWM0	112	11		17	80		port 2.1 or PWM0 output
P2.2/PWM1	113	47		16	44		port 2.2 or PWM1 output
P2.3/PWM2	114	48		15	43		port 2.3 or PWM2 output
P3.0/ADC0	115	12		14	79		port 3.0 or ADC0 input
P3.1/ADC1	116	13		13	78		port 3.1 or ADC1 input
VDDC1	117	3		12	88		digital supply to core (+1.8 V)
DECV1V8	118	3		11	88		decoupling 1.8 V supply
P3.2/ADC2	119	14		10	77		port 3.2 or ADC2 input
P3.3/ADC3	120	15		9	76		port 3.3 or ADC3 input
VSSC/P	121	1		8	90		digital ground for mController core and periphery
P2.4/PWM3	122	53		7	38		port 2.4 or PWM3 output
P2.5/PWM4	123	54		6	37		port 2.5 or PWM4 output
VDDC3	124	3		5	88		digital supply to core (1.8V)
VSSC3	125	1		4	90		ground
P1.2/INT2	126	2		3	89		port 1.2 or external interrupt 2
P1.4/RX	127	53		2	38		port 1.4 or UART bus
P1.5/TX	128	54		1	37		port 1.5 or UART bus

WAVEFORMS

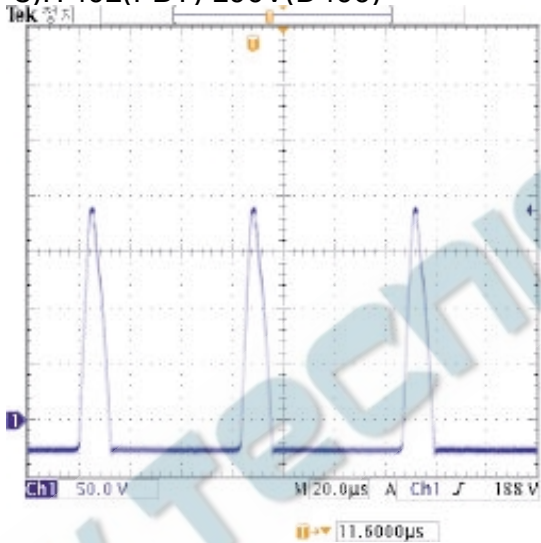
1).I801 PIN1



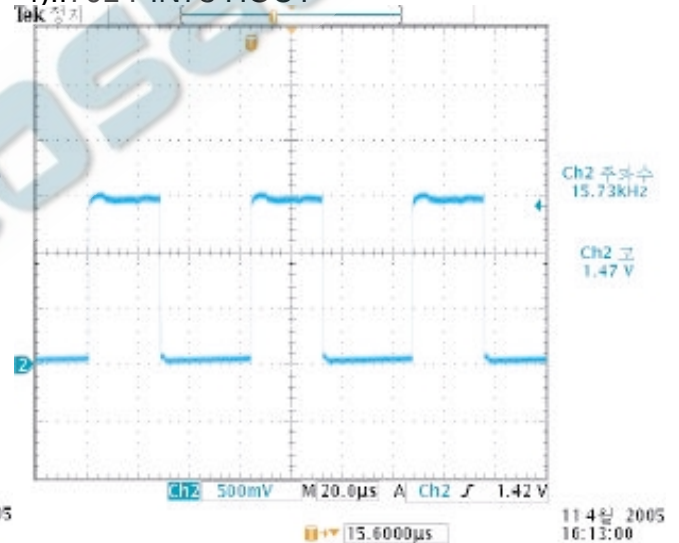
2).T402(FBT) HOR.OUT



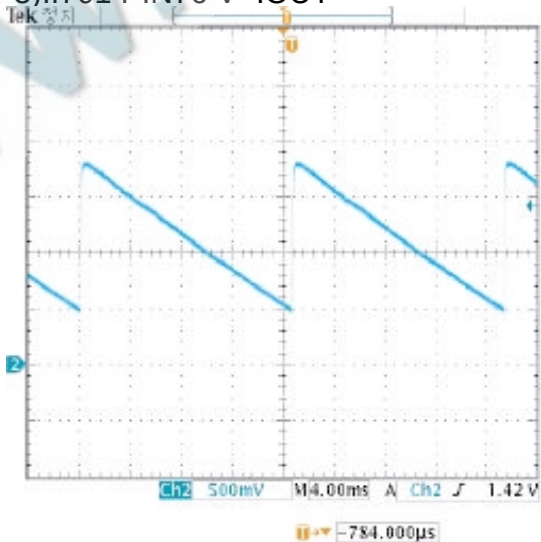
3).T402(FBT) 190V(D406)



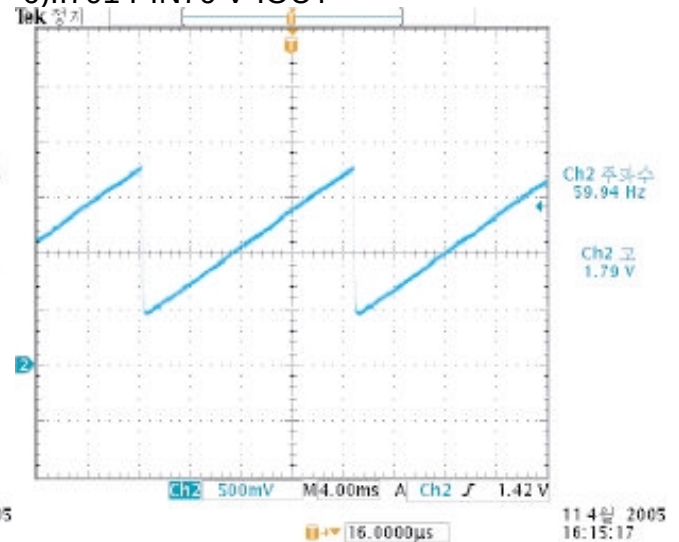
4).I701 PIN73 HOUT



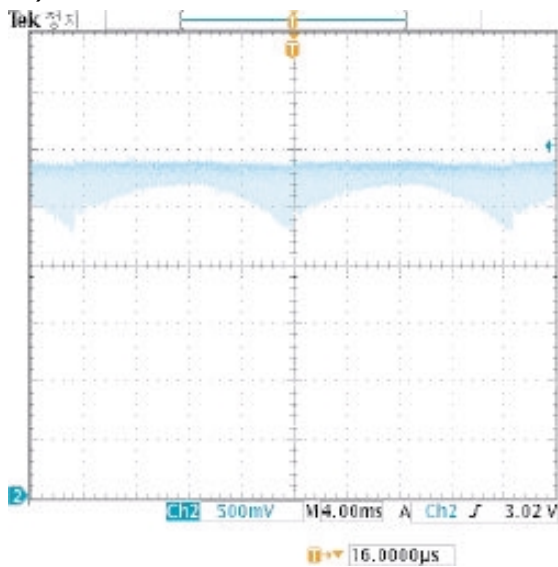
5).I701 PIN76 V+.OUT



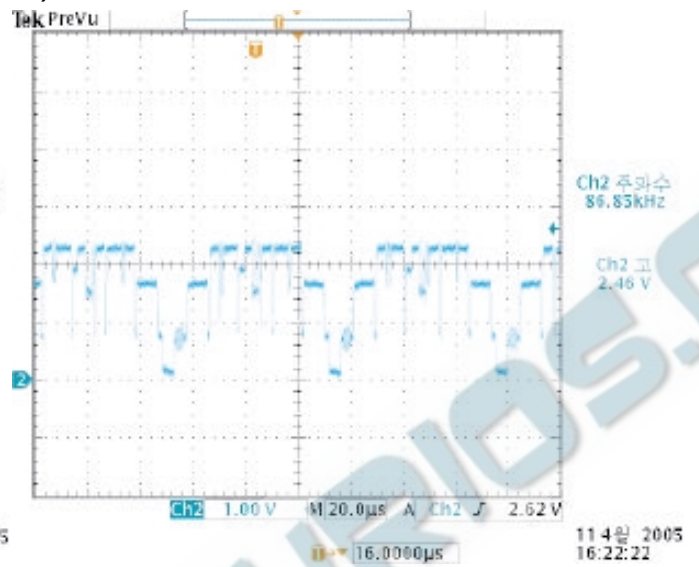
6).I701 PIN76 V-.OUT



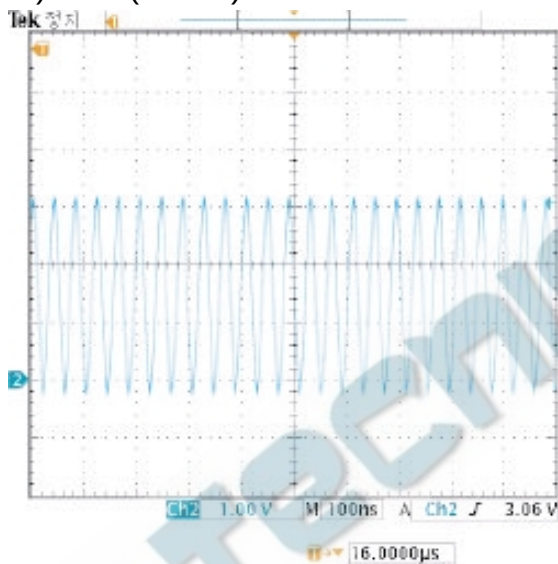
7).I701 PIN75 EW OUT



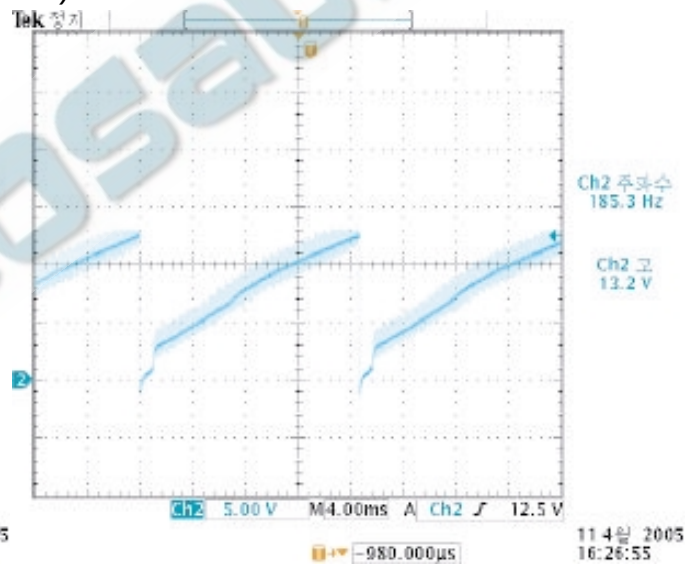
8).I701 PIN46 MONITOR OUT



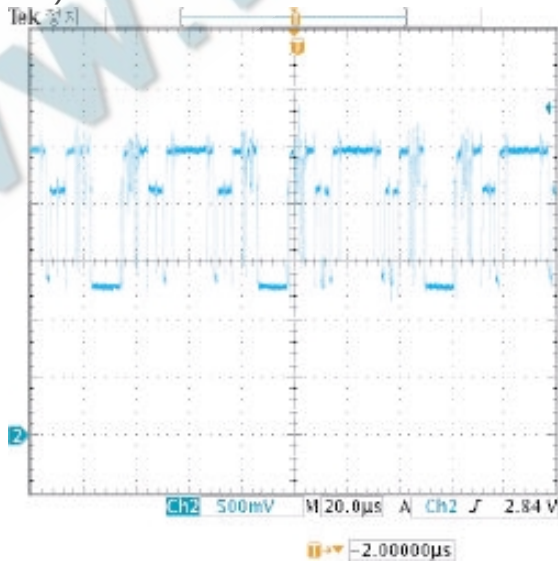
9).I701 (X-TAL)



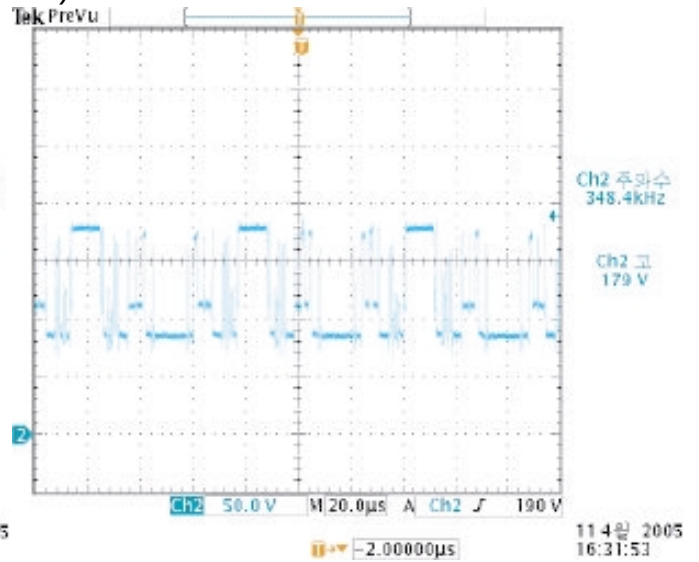
10).I301 PIN4 V.OUT



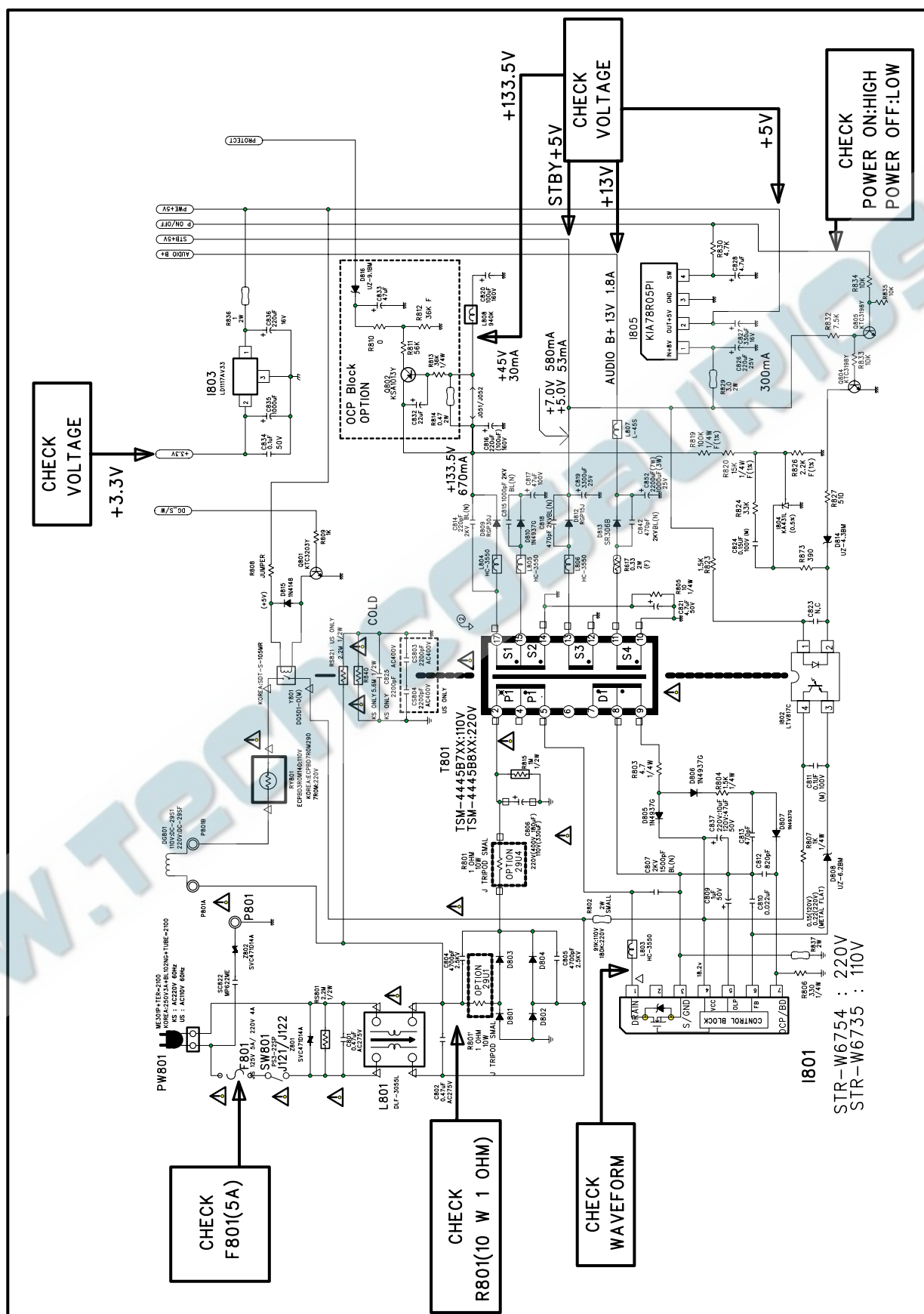
11).I901 PIN R.IN



12).I901 PIN R.OUT



1. NO POWER

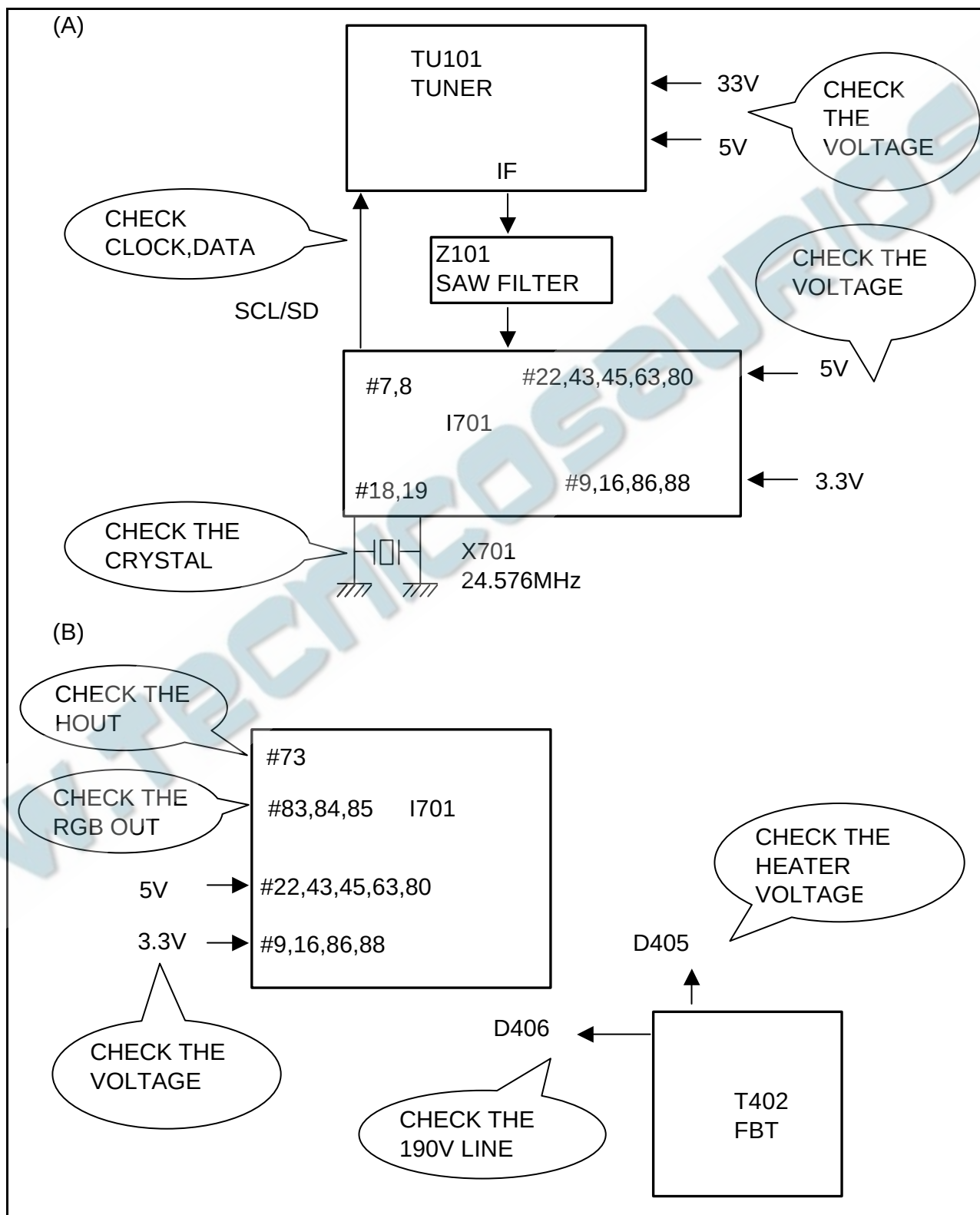


2. NO PICTURE

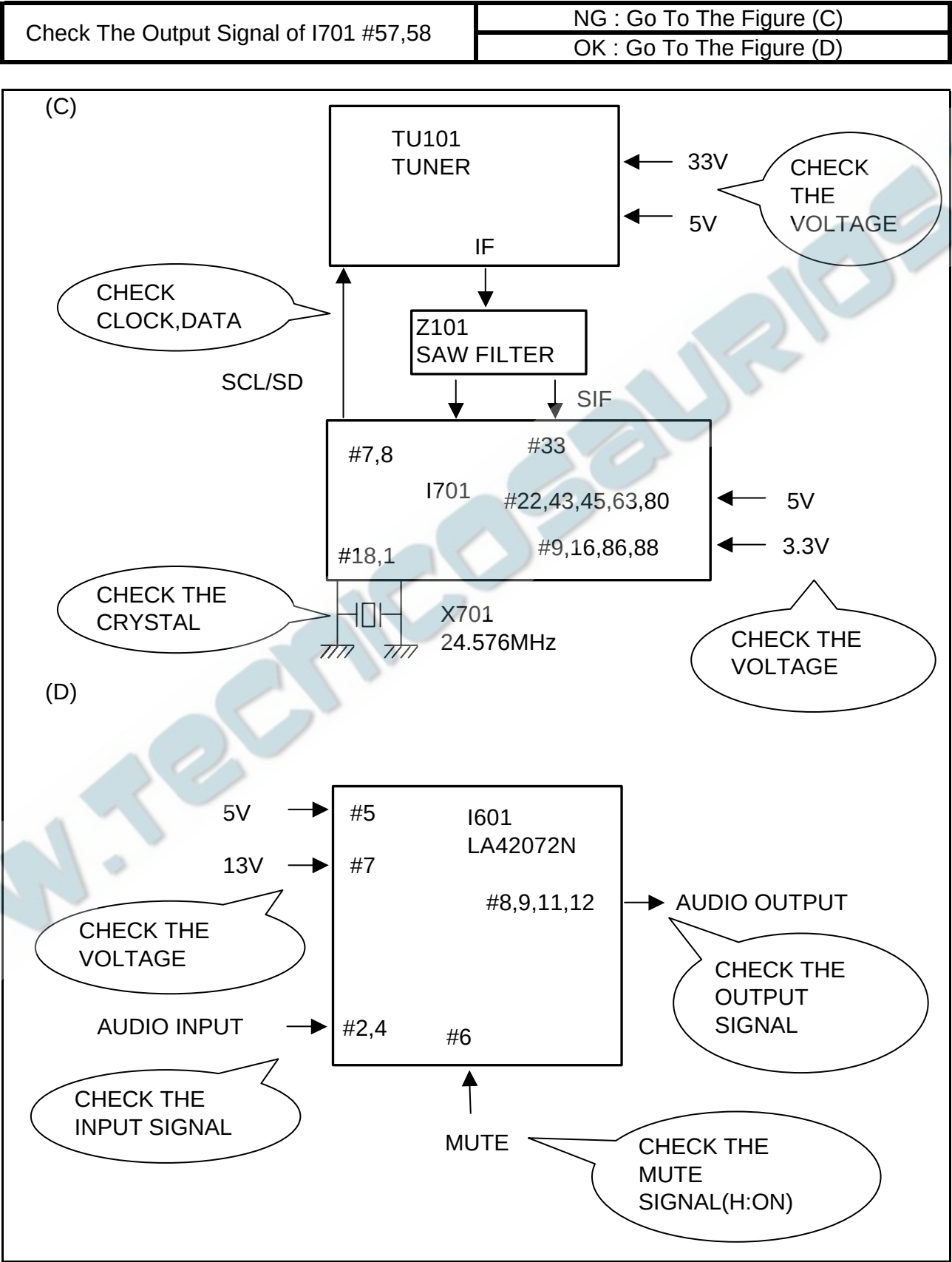
Check The Waveform of TU101 IF PIN

NG : Go To The Figure (A)

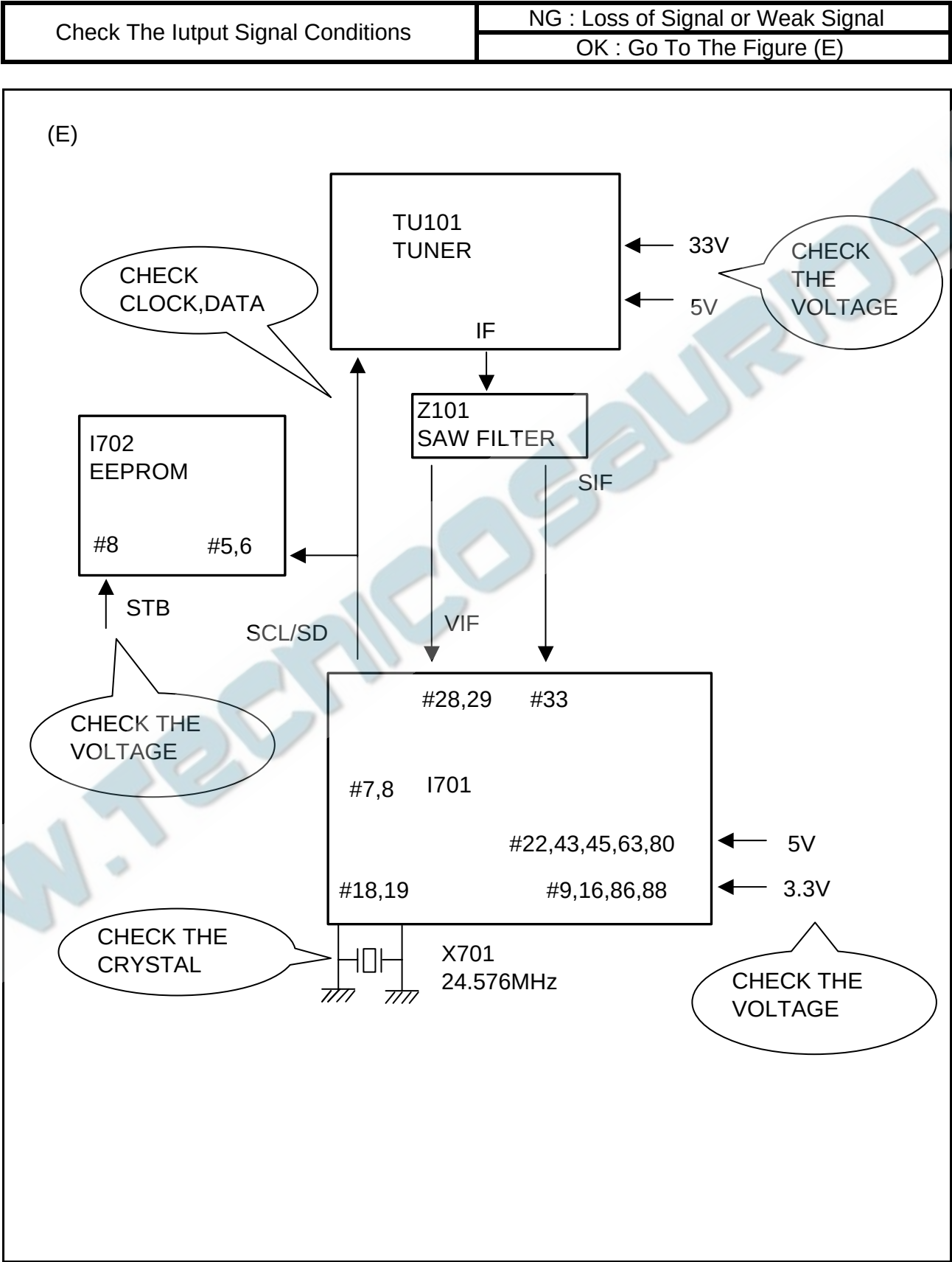
OK : Go To The Figure (B)



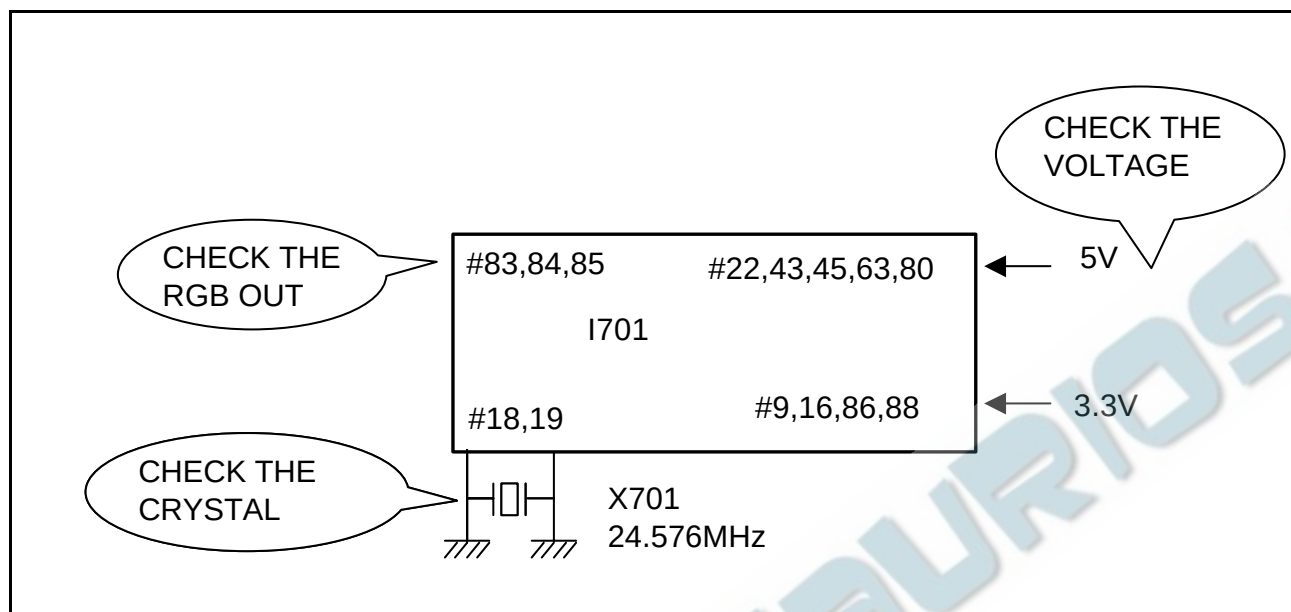
3. NO SOUND



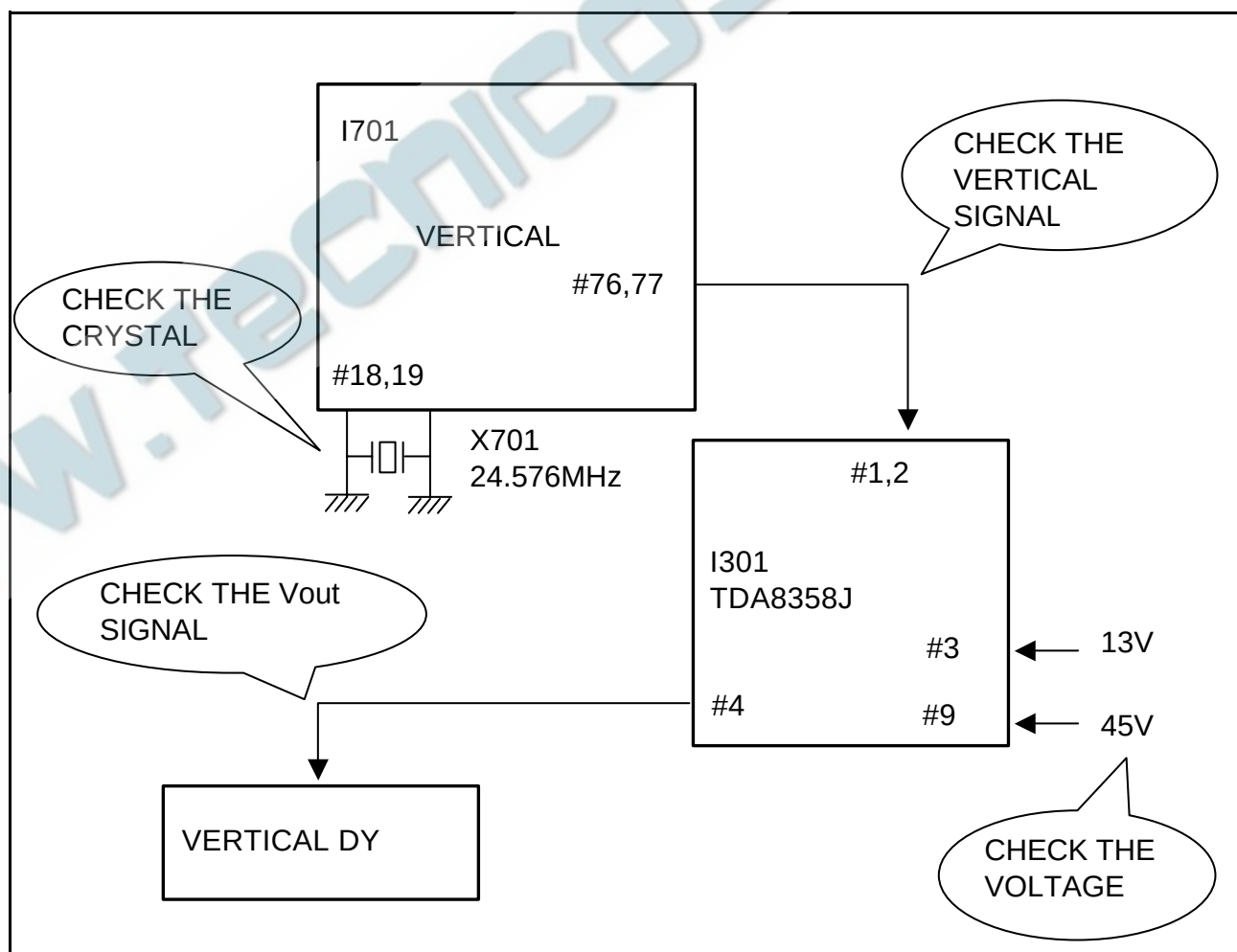
4. CH DON'T MEMORY or SKIP



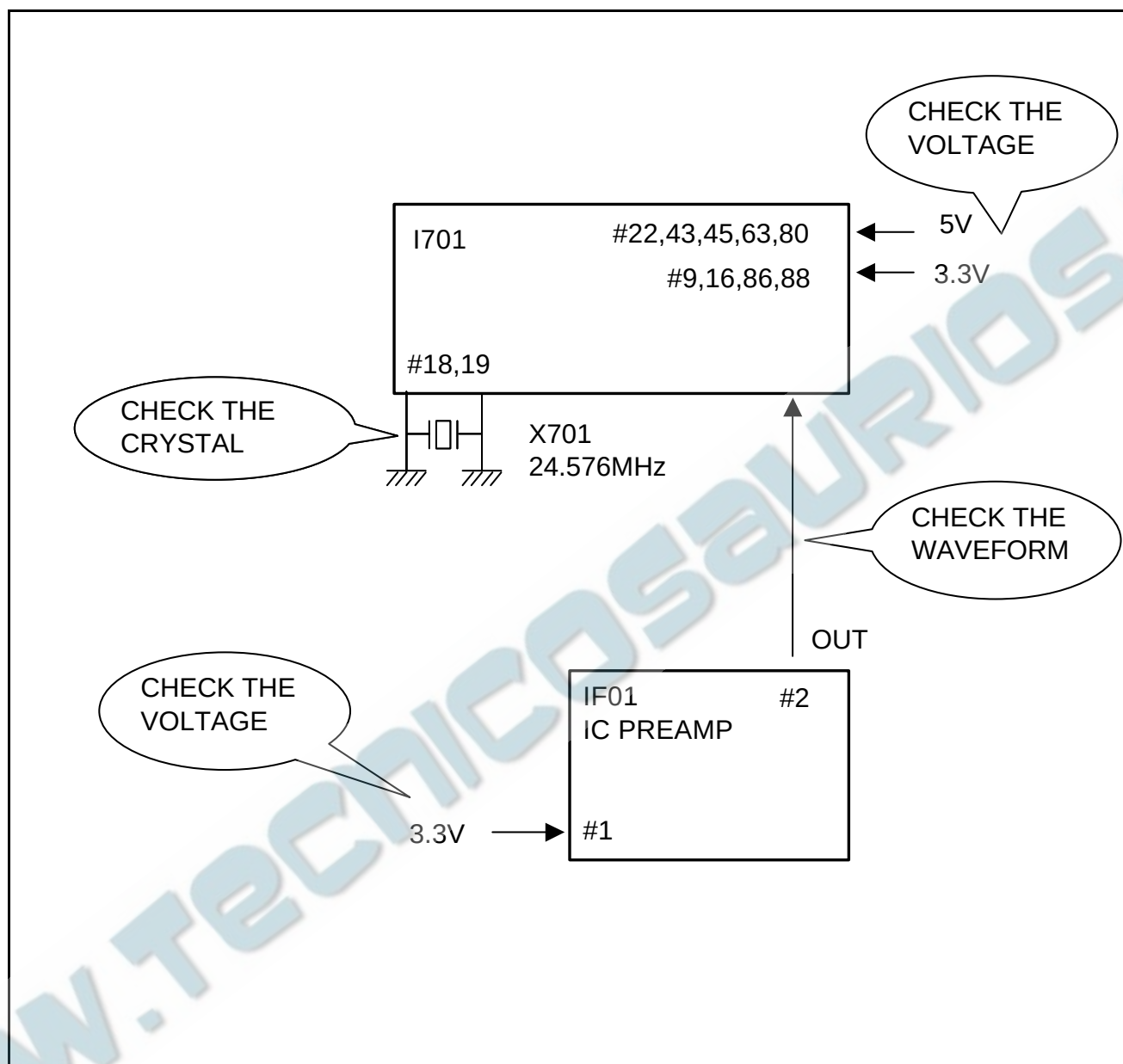
5. NO COLOR



6. NO VERTICAL DEFLECTION



7. REMOTE CONTROL DOES NOT OPERATE





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