

SERVICE MANUAL

COLOR TELEVISION


- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-005-431-9T1).
- This Service Manual does not include "ADJUSTMENT". This item will be issued in the next Supplement.

SPECIFICATIONS

Tuner System	Frequency synthesized tuner
TV System	NTSC-M
Channel Coverage	VHF: 2 to 13 UHF: 14 to 69 CATV: 5A, A-1 to A-5, A to W, W+1 to W+84
Program Memory	181
Antenna Input	75 ohms, unbalanced
Picture Tube	24 in.
Screen Size	478 (W) x 359 (H) mm (18 ⁷ / ₈ x 14 ¹ / ₄ in.) 598 mm (diagonal) (23 ⁵ / ₈ in.)
Video Input	1 Vp-p 75 ohms
Audio Input	0.5 Vrms., more than 33 k ohms
Speaker	120 x 60 mm (4 ³ / ₄ x 2 ³ / ₈ in.)
Operating Voltage	120 V AC, 60 Hz
Power Consumption	125 W
Phones Jack	Stereo-mini jack
Operating Temperature	5 °C – 40 °C
Operating Humidity	35 % – 80 %
Dimensions	690 (W) x 506 (H) x 485 (D) mm (27 ¹ / ₄ x 20 x 19 ¹ / ₈ in.)
Weight	33.7 kg (74.14 lbs.)

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-JE7-951-010		RC UNIT, RC-ZVT24
2	8A-JE5-901-010		IB, U (ESF) -F2400/2000
 3	87-B30-311-010		ADAPTOR, 300 75 TSN-02
4	8A-JE5-904-010		BAT, R6P ATC

NOTICES BEFORE REPAIRING

To make the best use of this equipment, make sure to obey the following items when repairing (or mending).

1. Do not damage or melt the tunicate of the leading wire on the AC1 side, including the power supply cord.
2. Do not soil or stain the letters on the spec. inscription plates, notice labels, fuse labels, etc.
3. When repairing the part extracted from the conducted side of the board pattern, fix it firmly with applying bond to the pattern and the part.
4. Restore the following items after repairing.
 - 1) Conditions of soldering of the wires (especially, the distance on the AC1 side).
 - 2) Conditions of wiring, bundling of wires, etc.
 - 3) Types of the wires.
 - 4) Attachment conditions of all types of the insulation.
5. After repairing, always measure the insulation resistance and perform the voltage-withstand test (See Fig-1).
 - 1) The insulation resistance must be 1 MΩ when applying 500V per second.
 - 2) In the voltage withstand test, apply 1 kV for 1 minute and check that the GO lamp lights.

- * Breaking current set to 10 mA.
- * Connect the safety checker as shown in Fig-1, then measure the resistance and perform the test.
- * Do not touch the equipment during testing.
- * For details of the safety checker, refer to the supplied Operation manual.

Insulation resistance: 1 MΩ (500 V/s)
Voltage-withstand: 1 kV for 1 minute

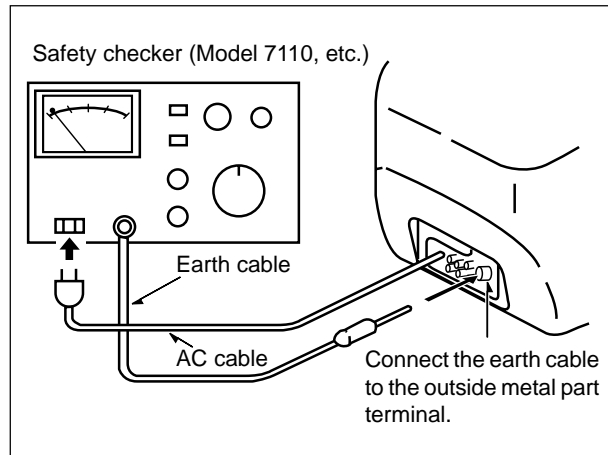


Fig-1

When servicing and checking on the TV, note the followings.

1. Keep the notices.

As for the places which need special attentions, they are indicated with labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.
2. Avoid an electric shock.

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.
3. Use the designated parts.

The parts in this equipment have the specific characteristics of incombustibility and withstand voltage for safety.
Therefore, use a part which has the same character as the replaced part. Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts with a \triangle mark, the designated parts must be used.
4. Put parts and wires in the original position after assembling or wiring.

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled so that these parts do not make contact with the printed

board. The inside wiring is designed not to get close to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

5. Take care of the cathode-ray tube.

By setting an explosion-proof cathode-ray tube in this equipment, safety is secured against implosion. However, when removing it or servicing from the back, it gives out shock that is dangerous. Take enough care to deal with it.
6. Avoid an X-ray.

Safety is secured against an X-ray by giving considerations to the cathode-ray tube and the high voltage peripheral circuit, etc. Therefore, when repairing the high voltage peripheral circuit, use the designated parts and do not change the circuit. Repairing, except indicates, causes rising of high voltage, and the cathode-ray tube emits an X-ray.
7. Perform a safety check after servicing.

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are deteriorated portions around the places serviced.

\triangle Safety Components Symbol

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to confirm to special Safety Specifications.
Therefore, when replacing a component with this symbol make absolutely sure that you use a designated part.

DISASSEMBLY INSTRUCTIONS

1. REAR CABINET REMOVAL

- (1) Remove four screws 1, and three screws 2, then remove the rear cabinet in the direction of the arrow. (See Figure 1-1)

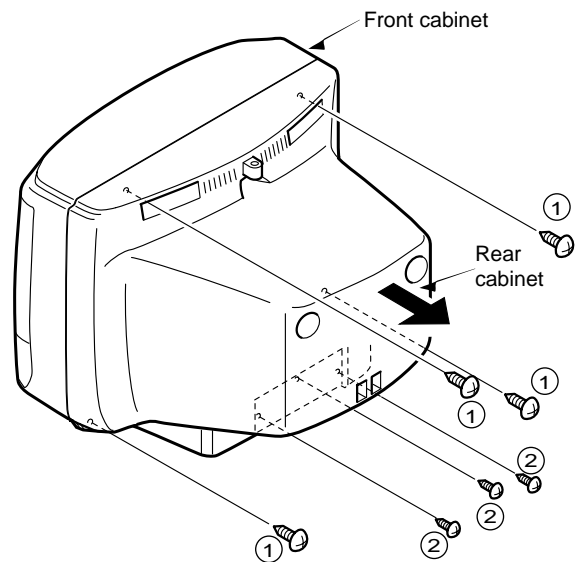


Figure 1-1

2. HIGH-VOLTAGE CAP (ANODE CAP) REMOVAL

2-1. Cautions before Removing

Discharge the anode voltage

- (1) The anode voltage is not discharged completely from the CRT of this unit even after the power is turned off. Be sure to discharge the residual anode voltage before removing the anode cap.

Do not use pliers

- (2) Do not use pliers, etc. to remove the anode cap. If you used pliers and bent the hook to remove the cap, the spring characteristics of the hook could be lost, and when reinstalled, the cap would come off from the CRT anode button easily, causing an accident.

Do not turn the anode cap

- (3) If the anode cap is turned in the direction of its circumference, the hook is likely to come off.

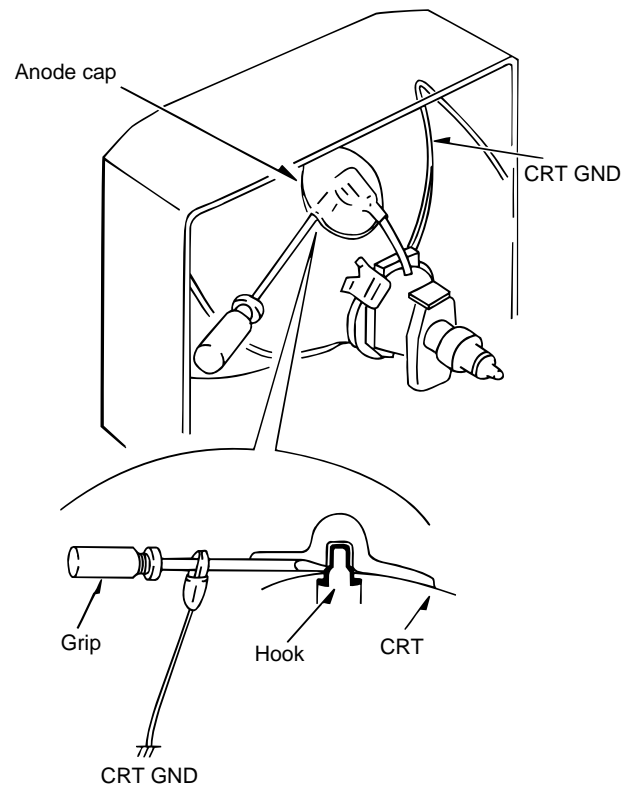


Figure 2-1

2-2. Anode Cap Removal

Discharge the anode voltage. (See Figure 2-1)

- (1) Connect a flat-bladed screwdriver to the CRT GND via an alligator clip.
- (2) Use a tester to check the end of the screwdriver and ground of the TV for continuity.
- (3) Touch the hook with the end of the screwdriver.
Caution : Be careful not to damage the anode cap.
- (4) Turn over the anode cap.
Caution : Be careful not to damage the anode cap.

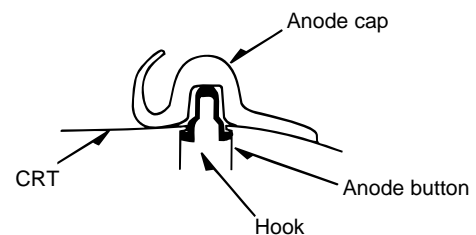


Figure 2-2

- (5) Push the anode cap with your thumb in the direction of arrow 1 as shown in the figure, then lift the cap in the direction of arrow 2 to release the hook on one side.
(See Figure 2-3)

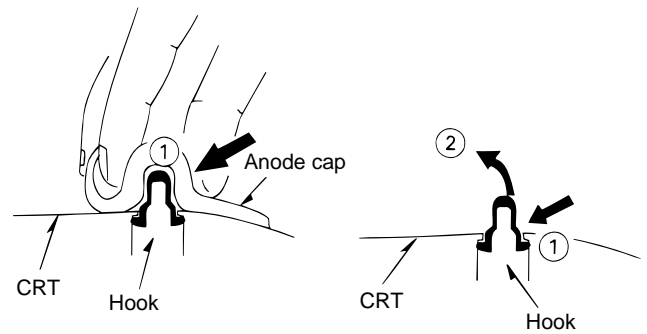


Figure 2-3

- (6) Turn over the anode cap on the side where the hook was released and pull out the cap in the direction opposite to that on which the cap was pushed. (See Figure 2-4)
Caution : Do not pull out the anode cap straight up.
: Do not pull the cap forcibly. After removing the cap, check that the hook is not deformed.

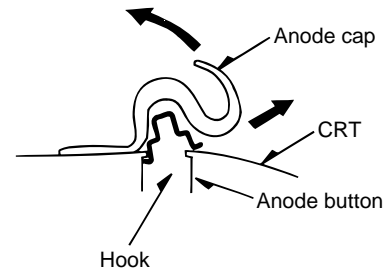


Figure 2-4

3. ANODE CAP REINSTALLTION

Observe the cautions carefully so that no accident occurs due to a defect in installing the anode cap and so it does not come off.

3-1. Caution before Reinstalling

Never turn the anode cap after installing it

Never re-use the hook when it has been deformed

- (1) If the anode cap is turned after it is installed, it may come off. Therefore, arrange the high-voltage cable before attaching the anode cap. (See Figure 3-1)
- (2) If you have attached the anode cap before arranging the high-voltage cable, arrange the cable carefully so the cap does not turn.

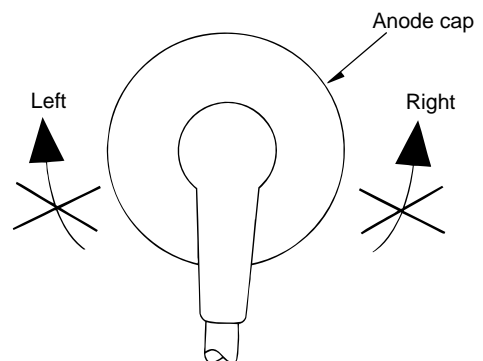


Figure 3-1

3-2. Anode cap reinstallation

- (1) Use a clean cloth moistened slightly with alcohol to clean the installation section. (See Figure 3-2)
Caution : Check that the installation section is free from dust, foreign matter, etc.
- (2) Coat the anode cap installation circumference with an appropriate amount of the specified silicone grease (KS-650N).
Caution : Be careful that silicone grease does not enter the anode button.

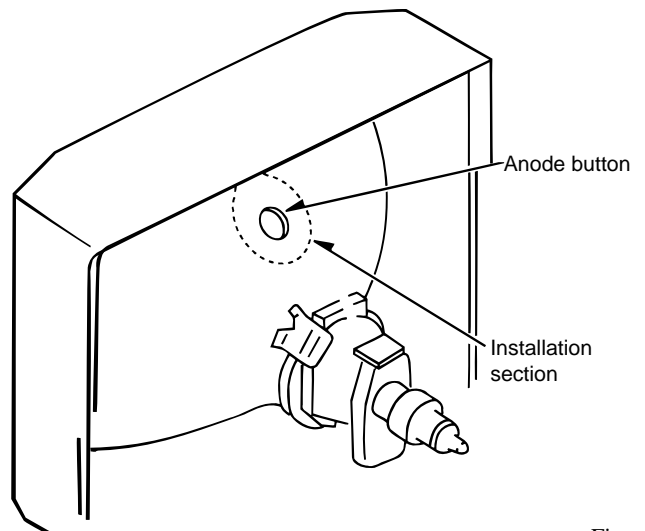


Figure 3-2

- (3) Eliminate twisting, etc. of the high-voltage cable and arrange it so that no twisting occurs. (See Figure 3-3)

Caution : If the cable is not arranged correctly, the anode cap could turn and cause an installation defect.

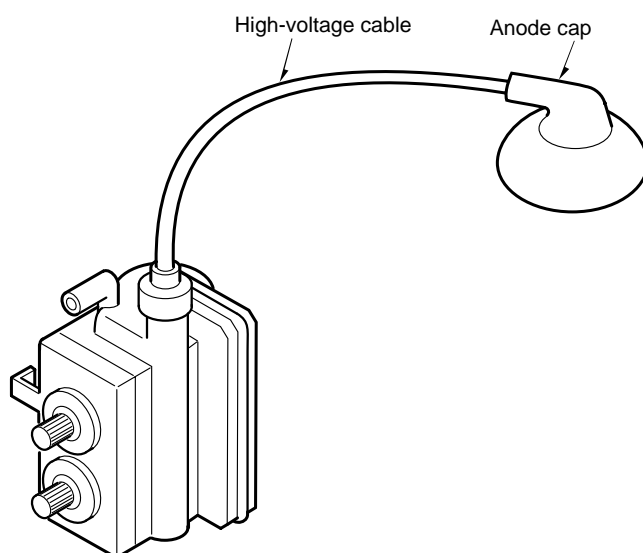


Figure 3-3

- (4) Turn over the rubber cap symmetrically on the left and right. (See Figure 3-4)

Caution : Take great care not to damage the anode cap.

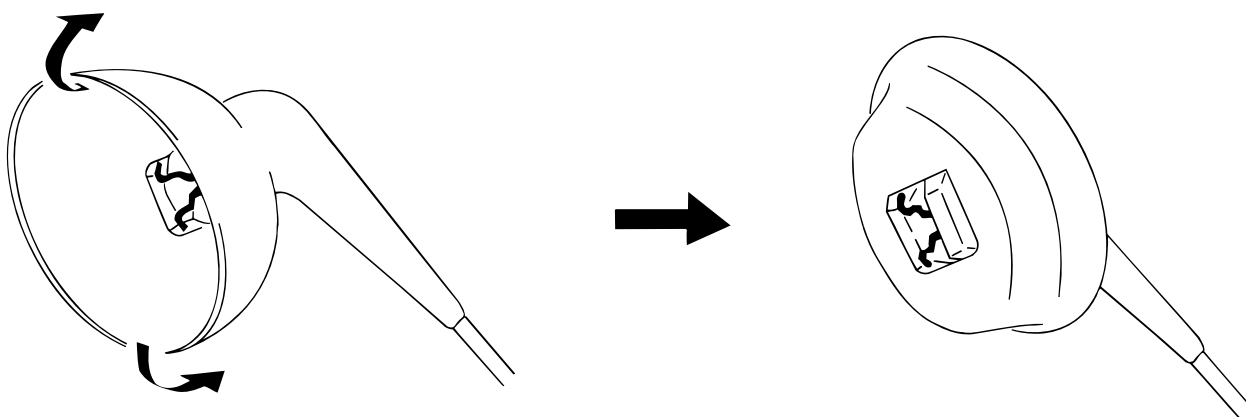


Figure 3-4

- (5) Fit your forefinger over the projection at the center of the cap and hold the cap between your thumb and middle finger. (See Figure 3-5)

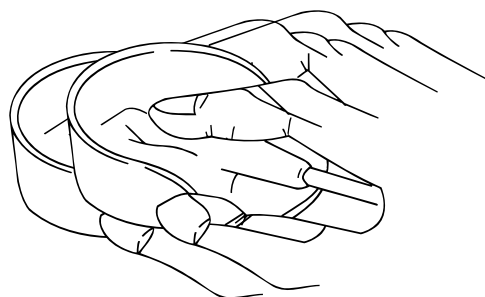


Figure 3-5

- (6) Apply the hook on one side to the anode button as shown on the figure. (See Figure 3-6)
Caution : Check that the hook is held securely.
- (7) Apply the hook on the other side to the anode button as shown in Figure 3-7.

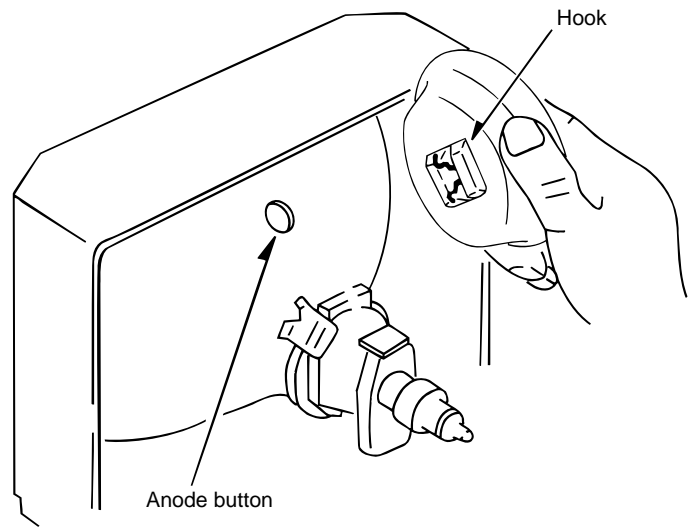
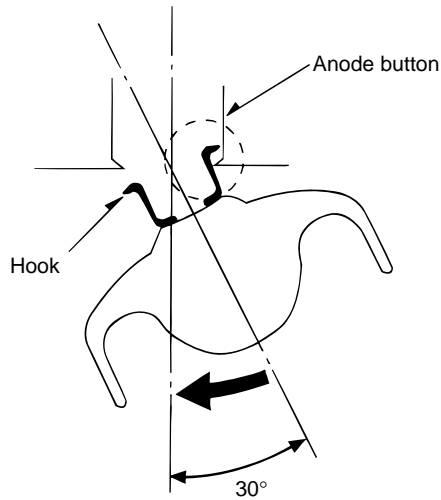


Figure 3-6

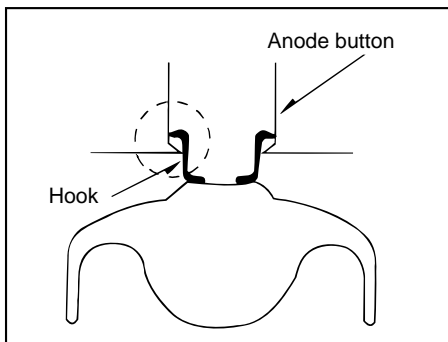


Figure 3-7

- (8) Pull the anode cap slightly with the rubber cap turned over and visually check that the hook is engaged securely.
- (9) Release your hand from the rubber cap of the anode cap.
Caution : Cover the anode cap so that it does not lift.
- (10) Hold the skirt of the anode cap slightly to improve the close contact between the cap and CRT.
- (11) Check that the anode cap is in close contact with the CRT. (See Figure 3-8)

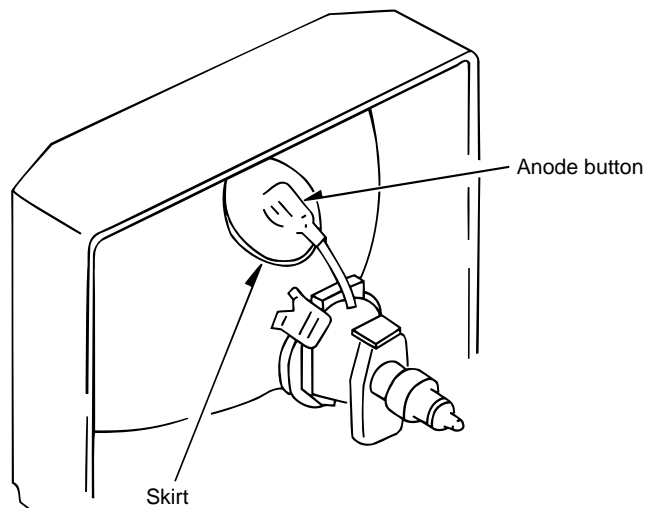


Figure 3-8

4. NK C.B REMOVAL

- (1) Disconnect CN903 (CRT GND).
- (2) Disconnect CN901, CN902, CN951, CN952.
- (3) Remove the NK C.B in the direction of arrow 1 .
(See Figure 4-1)

5. MAIN C.B REMOVAL

- (1) Remove connector (CN404).
- (2) Remove connector (CN882).
- (3) Remove connector (CN807).
- (4) Pull out the MAIN C.B in the direction of the arrow 2
(See Figure 4-1).

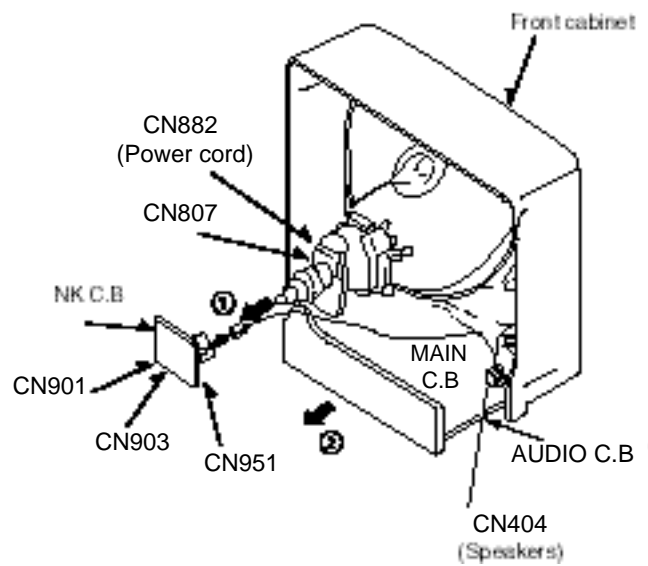


Figure 4-1

ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				MAIN C.B			
	8A-JE7-621-010		IC,M37272MA-052SP	C001	87-010-405-080		CAP,E 10-50 M 11L SME
	87-A91-538-010		RCR UNIT,SBX1981-72P	C002	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-A21-378-010		IC,S-24C04BDP-1A	C003	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-A20-611-080		IC,M51943BSL-700A	C004	87-018-127-080		CAP,TC U 470P-50 K B UP050
	87-001-536-010		IC,NJM78M05FA	C005	87-010-401-080		CAP,E 1-50 M 11L SME
	8Z-JBJ-605-010		IC,TA1268N	C006	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-A21-103-040		C-IC,MM1454XFBE	C007	87-010-248-080		CAP,E 220-10 M 11L SME
	87-A21-022-040		C-IC,BA3880FS	C008	87-018-123-080		CAP,TC U 220P-50 K B UP050
	87-A21-554-010		IC,TA1216AN	C009	87-010-401-080		CAP,E 1-50 M 11L SME
	87-A21-283-010		IC,AN5277	C010	87-018-131-080		CAP,TC U 1000P-50 K B UP050
	87-A21-220-010		IC,MM1311AD	C011	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-A21-219-010		IC,TC90A45P	C012	87-018-119-080		CAP,TC U 100P-50 K B UP050
	87-A21-456-010		IC,LA7833	C013	87-018-119-080		CAP,TC U 100P-50 K B UP050
	87-070-417-010		IC,NJM4558DD	C014	87-010-263-080		CAP,E 100-10 M 11L SME
	8Z-JBH-605-010		IC,CXA2104S	C015	87-018-119-080		CAP,TC U 100P-50 K B UP050
	87-A21-468-010		IC,STR-F6626	C016	87-018-131-080		CAP,TC U 1000P-50 K B UP050
	87-A21-491-010		IC,SE125N	C017	87-018-128-080		CAP,TC U 560P-50 K B UP050
	87-020-969-010		IC,NJM78M09FA	C018	87-018-109-080		CAP,TC U 22P-50 J SL UP050
	87-A20-389-010		IC,NJM7809FA	C019	87-018-109-080		CAP,TC U 22P-50 J SL UP050
				C020	87-018-119-080		CAP,TC U 100P-50 K B UP050
TRANSISTOR				C021	87-018-109-080		CAP,TC U 22P-50 J SL UP050
	87-A30-065-080		TR,2SC2785FE	C022	87-018-109-080		CAP,TC U 22P-50 J SL UP050
	87-026-269-080		TR,DTA114ES	C023	87-018-123-080		CAP,TC U 220P-50 K B UP050
	87-A30-066-080		TR,2SA1175FE	C024	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-026-219-080		TR,DTA144ES	C025	87-018-119-080		CAP,TC U 100P-50 K B UP050
	87-026-218-080		TR,DTC144ES	C101	87-010-404-080		CAP,E 4.7-50 M 11L SME
	89-324-122-080		C-TR,2SC2412KR	C104	87-010-248-080		CAP,E 220-10 M 11L SME
	89-110-372-080		C-TR,2SA1037K(R)	C105	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-A30-062-080		C-TR,KRC104S	C106	87-A10-207-080		CAP,TC U 0.01-50 K B UP050
	89-324-820-080		TR,2SC2482	C112	87-018-109-080		CAP,TC U 22P-50 J SL UP050
	87-A30-366-010		TR,2SD2580	C113	87-018-109-080		CAP,TC U 22P-50 J SL UP050
	87-A30-363-010		TR,2SD2531	C201	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	89-110-154-080		TR,2SA1015Y	C202	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	89-318-155-080		TR,2SC1815GR	C203	87-010-400-080		CAP,E 0.47-50 M 11L SME
	87-026-463-080		TR,2SA933SRS	C204	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	89-110-913-080		TR,2SA10910	C205	87-010-237-080		CAP,E 1000-16 M SME
	87-A30-344-010		TR,2SC5147D	C206	87-A10-287-080		CAP,M 2200P-50 J
	87-026-462-080		TR,2SC1740SRS	C207	87-010-400-080		CAP,E 0.47-50 M 11L SME
	89-407-742-080		TR,2SD774	C208	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	89-118-370-010		TR,2SA1837	C209	87-010-385-080		CAP,E 220-25 M SME
	89-347-930-010		TR,2SC4793	C210	87-A11-080-080		CAP,TC U 47P-50 J CH
				C211	87-A11-080-080		CAP,TC U 47P-50 J CH
				C212	87-A11-080-080		CAP,TC U 47P-50 J CH
				C213	87-A11-082-080		CAP,TC U 56P-50 J CH
				C214	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
DIODE				C229	87-018-149-080		CAP,TC U 15P-50 J CH UP050
	87-070-110-010		LED,SLP-181B-51 RED	C301	87-010-403-080		CAP,E 3.3-50 M 11L SME
	87-017-932-080		ZENER,MTZJ6.2B	C302	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-020-465-080		DIODE,1SS133	C305	87-018-126-080		CAP,TC U 390P-50 K B UP050
	87-002-743-080		ZENER,MTZJ33B	C306	87-010-405-080		CAP,E 10-50 M 11L SME
	87-A40-235-080		ZENER,MTZJ9.1C	C307	87-A10-299-080		CAP,M 0.022-50 J
	87-A40-690-080		ZENER,MTZJ11B	C308	87-010-401-080		CAP,E 1-50 M 11L SME
	87-A40-286-080		DIODE, RGP10JE-5025	C309	87-018-147-080		CAP,TC U 10P-50 J CH UP050
	87-A40-348-080		ZENER,MTZJ3.3A	C311	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-A40-234-080		ZENER,MTZJ5.6A	C312	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-A40-318-080		ZENER,RM26 V1	C313	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
	87-070-092-080		DIODE,S5566B	C314	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-A40-735-090		DIODE,ERC06-15	C315	87-018-123-080		CAP,TC U 220P-50 K B UP050
	87-A40-001-080		ZENER,MTZJ12C	C317	87-010-402-080		CAP,E 2.2-50 M 11L SME
	87-017-593-090		DIODE, RGP15J	C318	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-017-654-060		DIODE,GBU6JL6131	C319	87-010-237-080		CAP,E 1000-16 M SME
	87-A40-856-080		DIODE,UF4007	C321	87-010-404-080		CAP,E 4.7-50 M 11L SME
	87-A40-828-080		DIODE,AK 04	C322	87-A10-295-080		CAP,M 0.01-50 J
	87-A40-825-090		DIODE,RN 1Z	C323	87-016-280-080		CAP,E 3.3-50 M BP SME
	87-A40-734-010		DIODE,FML-G12S	C324	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-A40-354-090		DIODE,UF3GL-6251	C325	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	8Z-JBH-606-010		VRIS,TNR15G271K	C326	87-A10-307-080		CAP,M 0.1-50 J
	87-A40-553-080		DIODE,1N4003 LES	C327	87-018-134-080		CAP,TC U 0.01-16 N Y UP050
	87-017-650-080		DIODE,1SS119				
	87-A40-503-080		ZENER,MTZJ39B				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION		REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C328	87-010-405-080		CAP,E 10-50 M 11L SME		C807	87-A10-568-010		CAP,PP 1000P-630 J APH
C329	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		C808	87-010-384-080		CAP,E 100-25 M 11L SME
C330	87-010-401-080		CAP,E 1-50 M 11L SME		C809	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C331	87-010-544-080		CAP,E 0.1-50 M 11L SME		C810	87-018-129-080		CAP,TC U 680P-50 K B UP050
C332	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		C811	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C333	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		C813	87-018-131-080		CAP,TC U 1000P-50 K B UP050
C334	87-018-209-080		CAP,TC U 0.1-50 Z F UP050		C814	87-010-260-080		CAP,E 47-25 M 11L SME
C335	87-015-997-010		CAP,E 2200-16 M SME		C815	87-010-260-080		CAP,E 47-25 M 11L SME
C336	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		C816	87-010-405-080		CAP,E 10-50 M 11L SME
C337	87-018-130-080		CAP,TC U 820P-50 K B UP050		C817	87-010-398-090		CAP,E 2200-35 M SME
C338	87-010-405-080		CAP,E 10-50 M 11L SME		C818	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C339	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		C820	87-010-405-080		CAP,E 10-50 M 11L SME
C340	87-018-118-080		CAP,TC U 82P-50 J B UP050		C821	87-010-405-080		CAP,E 10-50 M 11L SME
C341	87-018-118-080		CAP,TC U 82P-50 J B UP050		C822	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C342	87-018-150-080		CAP,TC U 18P-50 J CH UP050		C824	87-010-237-080		CAP,E 1000-16 M SME
C343	87-A10-307-080		CAP,M 0.1-50 J		C826	87-010-976-080		CAP,CER 1000P-500 K B DD10
C344	87-A10-307-080		CAP,M 0.1-50 J		C829	87-010-384-080		CAP,E 100-25 M 11L SME
C501	87-010-405-080		CAP,E 10-50 M 11L SME		C831	87-010-405-080		CAP,E 10-50 M 11L SME
C504	87-010-393-080		CAP,E 100-35 M SME		C834	87-A10-733-090		CAP,E 220-160 M SK
C505	87-018-131-080		CAP,TC U 1000P-50 K B UP050		C835	87-A10-833-010		CAP,CER 1000P-2K K R LONG
C508	87-010-398-090		CAP,E 2200-35 M SME		C838	87-010-397-010		CAP,E 1000-35 M SME
C509	87-A11-245-080		CAP,M/P 0.1-100 J TF-ECQV	△	C842	87-012-370-010		CAP,CER 3300P-250 M E ECKD
C510	87-010-405-080		CAP,E 10-50 M 11L SME	△	C843	87-012-370-010		CAP,CER 3300P-250 M E ECKD
C605	87-A10-972-090		CAP,M/P 0.015-1.25K H DKRG	△	C844	87-012-370-010		CAP,CER 3300P-250 M E ECKD
C607	87-A12-351-090		CAP,M/P 0.013-800 H DKRG	△	C845	87-012-370-010		CAP,CER 3300P-250 M E ECKD
C608	87-A10-833-010		CAP,CER 1000P-2K K R LONG		C846	87-A10-207-080		CAP,TC U 0.01-50 K B UP050
C609	87-A10-975-090		CAP,M/P 0.68-250 J		CF201	84-LB3-626-080		FLTR,TPS4.5MB2
C610	87-A10-833-010		CAP,CER 1000P-2K K R LONG		CF202	84-LB3-627-080		FLTR,SFSH 4.5MBD SIF
C611	87-010-963-080		CAP,E 2.2-160 M 11L SME		CN001	87-009-195-010		CONN,5P V WHT EH
C612	87-010-976-080		CAP,CER 1000P-500 K B DD10		CN601	87-099-762-010		CONN,5P V TBL-P BOSS
C613	87-016-373-080		CAP,E 10-250 M SME		CN701	87-A60-628-010		CONN,11P V 2MM JMT
C614	87-010-976-080		CAP,CER 1000P-500 K B DD10		CN705	87-009-262-010		CONN,8P V 52147
C615	87-A10-843-080		CAP,CER 680P-1K K R		CN706	87-099-186-010		CONN,6P V WHT EH
C616	87-A10-843-080		CAP,CER 680P-1K K R		CN707	87-A61-126-080		MALE, 1P TP42097
C617	87-A12-082-090		CAP,E 1000-35 SMG	△	CN807	82-481-649-010		CONN,2P V VT-50P
C618	87-A10-301-080		CAP,M 0.033-50 J		CNA101	8Z-JE5-637-010		CONN ASSY,1P PS-MAIN
C619	87-A11-987-080		CAP,CER 6800P-250 K R HR		CNA103	8A-JE5-627-010		CONN ASSY,2P MAIN-S
C620	87-010-395-080		CAP,E 330-35 M SME		CNA602	8Z-JE5-632-010		CONN ASSY,5P V WHT TV-NK-1
C621	87-018-131-080		CAP,TC U 1000P-50 K B UP050		CNA604	8Z-JE5-638-010		CONN ASSY,1P FBT-PS
C622	87-A11-124-080		CAP,TC U 2200P-50 K B		CNA704	8A-JE5-617-010		CONN ASSY,6P V WHT TV-NK-2
C623	87-A12-171-080		CAP,E 4.7-50 K SH		CNA801	8A-JE5-619-010		CONN ASSY,3P V MAIN-PS
C624	87-010-975-080		CAP,CER 330P-500 K B DD10		CNA803	8Z-JE5-636-010		CONN ASSY,2P PS-MAIN 5V
C626	87-010-405-080		CAP,E 10-50 M 11L SME		FB001	87-008-372-080		FLTR,EMI BL01 RN1
C627	87-010-975-080		CAP,CER 330P-500 K B DD10		FB002	87-008-372-080		FLTR,EMI BL01 RN1
C629	87-A10-469-080		CAP,CER 2200P-500 K B DD10		FB003	87-008-372-080		FLTR,EMI BL01 RN1
C630	87-010-405-080		CAP,E 10-50 M 11L SME		FB004	87-008-372-080		FLTR,EMI BL01 RN1
C631	87-010-263-080		CAP,E 100-10 M 11L SME		FB005	87-008-372-080		FLTR,EMI BL01 RN1
C655	87-A11-354-090		CAP,E 100-160 M SMG		FB006	87-008-372-080		FLTR,EMI BL01 RN1
C714	87-010-221-080		CAP,E 470-10 M SME		FB007	87-008-372-080		FLTR,EMI BL01 RN1
C720	87-015-464-080		CAP,E 4.7-16 BP		FB301	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C721	87-A10-292-080		CAP,M 5600P-50 J		FB601	87-003-223-080		F-BEAD, BL02RN2
C722	87-A10-296-080		CAP,M 0.012-50 J		FB602	87-003-223-080		F-BEAD, BL02RN2
C723	87-010-401-080		CAP,E 1-50 M 11L SME		FB801	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C724	87-010-404-080		CAP,E 4.7-50 M 11L SME		FB802	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C725	87-010-405-080		CAP,E 10-50 M 11L SME		FB803	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C726	87-010-404-080		CAP,E 4.7-50 M 11L SME		FB804	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C727	87-010-112-080		CAP,E 100-16 M 11L SME		FB805	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C728	87-015-464-080		CAP,E 4.7-16 BP		FB806	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C729	87-010-404-080		CAP,E 4.7-50 M 11L SME		FB807	87-003-320-080		F-BEAD,-9.0 FBR07HA121NB-00
C730	87-015-464-080		CAP,E 4.7-16 BP		FR601	87-029-158-060		RES,FUSE 1-1W J
C731	87-A10-288-080		CAP,M 2700P-50 J		FR608	87-A00-628-090		RES,FUSE 0.68-1W J RF 1SL12.5
C733	87-016-301-080		CAP,TN 3.3-16 K DN		FR610	87-A00-628-090		RES,FUSE 0.68-1W J RF 1SL12.5
C734	87-015-464-080		CAP,E 4.7-16 BP		FR801	87-A00-770-090		RES,FUSE 0.1-1W J RF1SL12.5
C735	87-016-302-080		CAP,TN 10-16 K DN		HL001	84-LB3-216-010		HLDR,LED
C736	87-010-401-080		CAP,E 1-50 M 11L SME		J702	87-A60-324-110		JACK,PIN 6P Y-W-R W/SW
C737	87-018-134-080		CAP,TC U 0.01-16 N Y UP050		L002	87-005-614-080		COIL,100UH J LAV35
C802	87-018-131-080		CAP,TC U 1000P-50 K B UP050		L003	87-005-614-080		COIL,100UH J LAV35
C804	87-A11-308-090		CAP,M/P 0.033-630 J ECQF6 (ZH)		L101	87-005-614-080		COIL,100UH J LAV35
C805	87-A10-846-080		CAP,CER 3300P-1K K R		L201	8Z-JBR-612-010		COIL,SIF 4.5MHZ 504BN
C806	87-A12-298-090		CAP,E 820-200 M 25B SMH		L203	87-005-612-080		COIL,68UH J LAV35

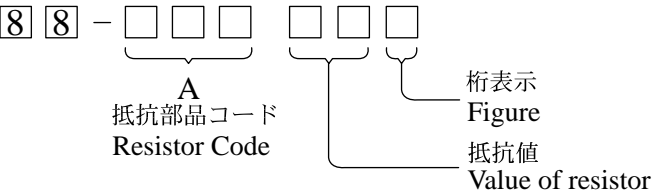
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L204	87-003-282-080		COIL,12UH J LAL02	C408	87-010-405-080		CAP,E 10-50 M 11L SME
L205	8Z-JBH-610-010		COIL,PIF-SQ57EL349A 45.75MHZ	C409	87-010-404-080		CAP,E 4.7-50 M 11L SME
L206	87-005-614-080		COIL,100UH J LAV35	C410	87-010-404-080		CAP,E 4.7-50 M 11L SME
L207	87-003-147-080		COIL,22UH J LAL02	C411	87-010-404-080		CAP,E 4.7-50 M 11L SME
L208	87-003-143-080		COIL,4.7UH K LAL02	C413	87-A10-295-080		CAP,M 0.01-50 J
L301	87-003-097-080		COIL,1.0UH K LAL02	C414	87-A10-305-080		CAP,M 0.068-50 J
L302	87-005-614-080		COIL,100UH J LAV35	C415	87-A10-293-080		CAP,M 6800P-50 J
L303	87-005-614-080		COIL,100UH J LAV35	C416	87-010-260-080		CAP,E 47-25 M 11L SME
L304	87-003-282-080		COIL,12UH J LAL02	C417	87-010-404-080		CAP,E 4.7-50 M 11L SME
L604	87-A50-607-080		COIL,3.9MH J LHL10	C418	87-010-197-080		C-CAP,S 0.01-25 K B C2012
L606	8Z-JE5-621-010		COIL,HLC ZJE-5	C419	87-010-404-080		CAP,E 4.7-50 M 11L SME
L607	87-A50-541-010		COIL,1MH 1.5AP-P	C420	87-010-404-080		CAP,E 4.7-50 M 11L SME
L701	87-005-614-080		COIL,100UH J LAV35	C421	87-010-404-080		CAP,E 4.7-50 M 11L SME
L801	87-A50-170-010		COIL,390UH RCH106	C422	87-A10-293-080		CAP,M 6800P-50 J
L803	87-A50-176-080		COIL,33UH-PJ87	C424	87-010-260-080		CAP,E 47-25 M 11L SME
△ PR601	87-A90-429-080		FUSE,1.25A 125V A 251	C425	87-A10-305-080		CAP,M 0.068-50 J
△ PR801	87-A90-409-080		FUSE,1.5A 125V A 251	C426	87-A10-295-080		CAP,M 0.01-50 J
△ PR802	87-A90-210-080		FUSE,7A 125V 251	C427	87-010-404-080		CAP,E 4.7-50 M 11L SME
△ PR803	87-A90-070-080		FUSE,3.5A 125V 251	C428	87-010-189-080		C-CAP,S 8200P-50 K B
△ PS801	87-A90-717-010		P-COUPLER,PC123FY2	C429	87-012-365-080		C-CAP,S 0.027-25 K B
△ PT801	8A-JE5-622-010		PT,U SW AJE-5	C430	87-010-401-080		CAP,E 1-50 M 11L SME
R315	87-025-380-080		RES,M/F 15K-1/6W F	C431	87-010-189-080		C-CAP,S 8200P-50 K B
R316	87-025-427-080		RES,M/F 27K-1/6W F	C432	87-010-197-080		C-CAP,S 0.01-25 K B C2012
R506	87-A00-143-090		RES,M/F 1.0-1W J RSF(S)	C433	87-010-260-080		CAP,E 47-25 M 11L SME
R508	87-A00-653-090		RES,M/F 270-1W J RSF(S)	C434	87-012-365-080		C-CAP,S 0.027-25 K B
R604	87-A00-565-090		RES,M/F 1.2K-7W J RSU7	C435	87-010-401-080		CAP,E 1-50 M 11L SME
R612	87-A00-629-090		RES,M/F 5.6-1W J RSF(S)	C436	87-010-401-080		CAP,E 1-50 M 11L SME
R626	87-A00-676-090		RES,M/F 100-7W J RSV7	C437	87-010-401-080		CAP,E 1-50 M 11L SME
R723	87-A00-130-080		RES,M/F 62K-1/6W F	C438	87-010-178-080		C-CAP,S 1000P-50 K B C2012
R801	87-A00-661-010		RES,CEM 27-2W J BGR2U	C439	87-A10-307-080		CAP,M 0.1-50 J
R802	87-A00-160-090		RES,M/F 33-2W J RSF(S)	C440	87-A10-307-080		CAP,M 0.1-50 J
R803	87-A00-356-090		RES,M/F 22-2W J RSS2X	C441	87-A10-307-080		CAP,M 0.1-50 J
R804	87-A00-633-090		RES,CEM 0.47-10W J RGC	C442	87-010-401-080		CAP,E 1-50 M 11L SME
R805	87-A00-170-090		RES,M/F 82K-3W J RSF(S)	C443	87-010-405-080		CAP,E 10-50 M 11L SME
R806	87-A00-380-090		RES,M/F 39K-3W J RSS H2	C444	87-010-405-080		CAP,E 10-50 M 11L SME
R811	87-A00-646-090		RES,CEM 0.1-5W K RGC5	C445	87-010-405-080		CAP,E 10-50 M 11L SME
R824	87-A00-315-090		RES,M/F 1K-1W J RSF(S)	C446	87-010-405-080		CAP,E 10-50 M 11L SME
R833	87-A00-199-090		RES,M/F 12K-3W J RSF(S)	C447	87-010-405-080		CAP,E 10-50 M 11L SME
R834	87-A00-223-090		RES,M/F 47K-2W J RSF(S)	C448	87-010-197-080		C-CAP,S 0.01-25 K B C2012
R844	87-A00-254-090		RES,M/F 0.68-2W J	C449	87-010-402-080		CAP,E 2.2-50 M 11L SME
△ RY801	87-A91-390-010		RELAY,AC12V G5PA-1-8	C450	87-010-247-080		CAP,E 100-50 M SME
S002	87-A91-525-080		SW,TACT SKQNLA	C451	87-010-388-080		CAP,E 1000-25 M SME
S003	87-A91-525-080		SW,TACT SKQNLA	C452	87-010-388-080		CAP,E 1000-25 M SME
S004	87-A91-525-080		SW,TACT SKQNLA	C453	87-010-178-080		C-CAP,S 1000P-50 K B C2012
S005	87-A91-525-080		SW,TACT SKQNLA	C454	87-010-399-090		CAP,E 3300-35 M SME
S006	87-A91-525-080		SW,TACT SKQNLA	C455	87-010-393-080		CAP,E 100-35 M SME
S007	87-A91-525-080		SW,TACT SKQNLA	C460	87-010-197-080		C-CAP,S 0.01-25 K B C2012
S801	87-A91-410-010		SW,AC PUSH 1-1-1 ESB92SH1B	C464	87-010-260-080		CAP,E 47-25 M 11L SME
SFR501	87-024-429-080		SFR,1K H RH063MC	C465	87-010-178-080		C-CAP,S 1000P-50 K B C2012
SFR601	87-024-434-080		SFR,22K H RH063MC	C466	87-A10-295-080		CAP,M 0.01-50 J
SFR602	87-024-429-080		SFR,1K H RH063MC	C467	87-010-401-080		CAP,E 1-50 M 11L SME
SFR603	87-A90-385-080		SFR,22K H DIA6 EVM	C468	87-A10-295-080		CAP,M 0.01-50 J
SWF201	8Z-JBH-633-010		FLTR,SAW M1969M	C469	87-A10-295-080		CAP,M 0.01-50 J
△ T601	8Z-JE5-606-010		FBT,D NX-4523 ZJE-5	C470	87-010-154-080		C-CAP,S 10P-50 D CH GRM
△ T602	85-JT2-653-010		PT,HDT-TV141-2	C471	87-012-155-080		C-CAP,S 180P-50 J CH GRM
△ TH801	87-A91-579-010		POS-THMS,PTH451BG3R0Q140	C472	87-A10-295-080		CAP,M 0.01-50 J
TU101	8Z-JBE-610-010		TU UNIT,USA ENV56D74G3	C473	87-A10-295-080		CAP,M 0.01-50 J
X001	87-A70-124-080		VIB,CER 8.0MHZ	C474	87-A10-295-080		CAP,M 0.01-50 J
X301	87-A70-007-080		VIB,XTAL 3.58MHZ AQC-1001	C475	87-010-178-080		C-CAP,S 1000P-50 K B C2012
X302	87-030-327-010		VIB,CER 503.500KHZ CSB F30	C476	87-010-260-080		CAP,E 47-25 M 11L SME
AUDIO C.B				C477	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C401	87-010-404-080		CAP,E 4.7-50 M 11L SME	C478	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C402	87-A10-295-080		CAP,M 0.01-50 J	C479	87-010-318-080		C-CAP,S 47P-50 J CH GRM
C403	87-A10-295-080		CAP,M 0.01-50 J	C480	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C404	87-A10-307-080		CAP,M 0.1-50 J	C481	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C405	87-010-404-080		CAP,E 4.7-50 M 11L SME	C482	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C406	87-010-260-080		CAP,E 47-25 M 11L SME	C483	87-010-260-080		CAP,E 47-25 M 11L SME
C407	87-010-197-080		C-CAP,S 0.01-25 K B C2012	C484	87-010-197-080		C-CAP,S 0.01-25 K B C2012
				C486	87-010-197-080		C-CAP,S 0.01-25 K B C2012
				C487	87-010-196-080		C-CAP,S 0.1-25 Z F C2012

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C488	87-010-384-080	CAP,E 100-25 M 11L SME		C915	87-010-260-080	CAP,E 47-25 M 11L SME	
C489	87-010-197-080	C-CAP,S 0.01-25 K B C2012		C916	87-018-134-080	CAP,TC U 0.01-16 N Y UP050	
C492	87-010-197-080	C-CAP,S 0.01-25 K B C2012		C917	87-010-970-090	CAP,CER 4700P-2K K B DE	
C493	87-A10-307-080	CAP,M 0.1-50 J		C951	87-010-381-080	CAP,E 330-16 M SME	
C494	87-A10-307-080	CAP,M 0.1-50 J		C953	87-018-119-080	CAP,TC U 100P-50 K B UP050	
C495	87-010-400-080	CAP,E 0.47-50 M 11L SME		C954	87-010-405-080	CAP,E 10-50 M 11L SME	
C496	87-010-400-080	CAP,E 0.47-50 M 11L SME		C955	87-010-405-080	CAP,E 10-50 M 11L SME	
C497	87-010-405-080	CAP,E 10-50 M 11L SME		C956	87-010-405-080	CAP,E 10-50 M 11L SME	
C751	87-010-545-080	CAP,E 0.22-50 M 11L SME		C957	87-018-122-080	CAP,TC U 180P-50 K B UP050	
C752	87-010-402-080	CAP,E 2.2-50 M 11L SME		C958	87-018-119-080	CAP,TC U 100P-50 K B UP050	
C753	87-010-545-080	CAP,E 0.22-50 M 11L SME		C959	87-A10-050-010	CAP,CER 4700P-500 K	
C754	87-010-402-080	CAP,E 2.2-50 M 11L SME		C960	87-010-221-080	CAP,E 470-10 M SME	
C755	87-010-197-080	C-CAP,S 0.01-25 K B C2012		C961	87-A12-168-080	CAP,E 33-160 M SMG	
C756	87-010-545-080	CAP,E 0.22-50 M 11L SME		C962	87-A12-010-080	CAP,M/P 0.047-250 J ECQE2	
C757	87-010-402-080	CAP,E 2.2-50 M 11L SME		C963	87-A10-283-080	CAP,M 1000P-50 J	
C758	87-010-545-080	CAP,E 0.22-50 M 11L SME		C964	87-A10-283-080	CAP,M 1000P-50 J	
C759	87-010-402-080	CAP,E 2.2-50 M 11L SME		C965	87-010-963-080	CAP,E 2.2-160 M 11L SME	
C760	87-010-197-080	C-CAP,S 0.01-25 K B C2012		C966	87-A12-014-080	CAP,M/P 0.1-250 J ECQE2	
C761	87-010-314-080	C-CAP,S 22P-50 J CH GRM		C967	87-A10-303-080	CAP,M 0.047-50 J	
C762	87-010-314-080	C-CAP,S 22P-50 J CH GRM		C968	87-010-221-080	CAP,E 470-10 M SME	
C763	87-010-405-080	CAP,E 10-50 M 11L SME		CN901	87-009-034-010	CONN,6P V WHT PH	
C764	87-010-401-080	CAP,E 1-50 M 11L SME		CN902	87-009-195-010	CONN,5P V WHT EH	
C765	87-010-382-080	CAP,E 22-25 M 11L SME		CN903	87-A61-126-080	MALE, 1P TP42097	
C766	87-010-402-080	CAP,E 2.2-50 M 11L SME		CN904	87-A61-060-080	CONN,1P V RED TP00706	
C767	87-010-401-080	CAP,E 1-50 M 11L SME		CN951	87-009-030-010	CONN,2P V WHT PH	
C768	87-010-402-080	CAP,E 2.2-50 M 11L SME		CN952	8A-JE7-620-010	CONN ASSY,2P VM-NK	
C769	87-010-405-080	CAP,E 10-50 M 11L SME		CN952	87-099-043-010	CONN,2P V WHT EH	
C770	87-010-405-080	CAP,E 10-50 M 11L SME		L901	87-005-608-080	COIL,33UH J LAV35	
C780	87-010-405-080	CAP,E 10-50 M 11L SME		L902	87-005-608-080	COIL,33UH J LAV35	
C781	87-010-405-080	CAP,E 10-50 M 11L SME		L903	87-005-608-080	COIL,33UH J LAV35	
CN401	87-009-314-010	CONN,8P V 51048		L951	87-005-482-080	COIL,56UH J FLR50	
CN404	8Z-JE5-640-010	CONN ASSY,4P SP-25		L952	87-005-481-080	COIL,47UH J FLR50	
CN404	87-049-469-010	CONN,4P V WHT EH		R901	87-A00-242-090	RES,M/F 8.2K-3W J RSF(S)	
CN405	87-009-317-010	CONN,11P V 51048		R902	87-A00-242-090	RES,M/F 8.2K-3W J RSF(S)	
CN409	87-009-033-010	CONN,5P V WHT PH		R903	87-A00-242-090	RES,M/F 8.2K-3W J RSF(S)	
CNA402	8A-JE7-610-010	CONN ASSY,6P V WHT AU-MAIN		R968	87-022-382-090	RES,M/F 120-2W J	
CNA403	8A-JE7-611-010	CONN ASSY,11P V WHT AU-VD		R969	87-A00-638-080	RES,M/F 47-1/2W J SPR	
CNA408	8Z-JE7-663-010	CONN ASSY,2P COMB-NK		R970	87-A00-634-080	RES,M/F 2.7-1/4W J SPR	
CNA414	8A-JE7-626-010	CONN ASSY,1P AU-MAIN		R971	87-A00-636-080	RES,M/F 560-1/4W J SPR	
DL401	87-A91-598-010	DELAY LINE,350NS EQFK5-MT		R973	87-A00-637-080	RES,M/F 1K-1/4W J SPR	
FR401	87-A00-478-090	RES,FUSE 2.2-1W J		R974	87-022-556-090	RES,M/F 180-3W J	
FR402	87-A00-478-090	RES,FUSE 2.2-1W J		R976	87-A00-636-080	RES,M/F 560-1/4W J SPR	
J401	87-A60-420-010	JACK,3.5 ST (MSC)		R977	87-A00-634-080	RES,M/F 2.7-1/4W J SPR	
J402	87-A61-296-010	JACK,PIN 3P +S ALL GOLD YKC22-		R978	87-A00-635-080	RES,M/F 47-1/4W J SPR	
L401	87-005-614-080	COIL,100UH J LAV35		SO901	8A-JE7-670-010	SOCKET,CRT 11P HPS1521-013411	
L403	87-005-614-080	COIL,100UH J LAV35					
L404	87-005-614-080	COIL,100UH J LAV35		S-JK C.B			
L405	87-003-284-080	COIL,27UH J LAL02					
L406	87-003-284-080	COIL,27UH J LAL02		C771	87-010-322-080	C-CAP,S 100P-50 J CH GRM	
L407	87-A50-555-010	COIL,100UH K 7212M-101K		C772	87-010-197-080	C-CAP,S 0.01-25 K B C2012	
R432	87-A00-739-090	RES,M/F 1-7W K RSV7		CN771	87-009-345-010	CONN,2P H WHT PH	
R447	87-A00-667-090	RES,M/F 680-2W J RSF(S)		CNA771	8Z-JE5-631-010	CONN ASSY,5P S-JK	
R448	87-A00-667-090	RES,M/F 680-2W J RSF(S)		J771	87-A61-174-010	JACK,Y/CYKF51-5558	
W401	8A-JE7-612-010	F-CABLE,8P 2.0 70MM					
W405	8A-JE7-613-010	F-CABLE,11P 2.0 70MM		PS C.B			
NK C.B				△ !C881	87-A10-688-090	CAP,M/P 0.22-275 K (B81133)	
				△ !C883	87-A10-688-090	CAP,M/P 0.22-275 K (B81133)	
				C887	87-010-388-080	CAP,E 1000-25 M SME	
C901	87-010-405-080	CAP,E 10-50 M 11L SME		CN881	87-A61-299-010	CONN,4P B 5-VB	
C902	87-010-968-080	CAP,CER 680P-2K K B		△ CN882	87-099-674-010	CONN,2P V VA	
C903	87-010-405-080	CAP,E 10-50 M 11L SME					
C906	87-010-400-080	CAP,E 0.47-50 M 11L SME		CN883	87-A61-126-080	MALE, 1P TP42097	
C907	87-010-235-080	CAP,E 470-16 M SME		CN884	87-A60-937-010	CONN,2P V VH	
				CN885	87-A61-126-080	MALE, 1P TP42097	
C908	87-A11-108-080	CAP,TC U 680P-50 J CH		△ F881	87-A91-106-010	FUSE,5A 125V T SER233	
C909	87-A11-110-080	CAP,TC U 820P-50 J CH		△ FC881	87-033-213-080	FUSE CLAMP,PFC5000	
C910	87-A11-108-080	CAP,TC U 680P-50 J CH					
C911	87-A11-106-080	CAP,TC U 560P-50 J CH		△ FC882	87-033-213-080	FUSE CLAMP,PFC5000	
C912	87-A11-106-080	CAP,TC U 560P-50 J CH		△ LF881	87-A91-453-010	FLTR,LINE PLH10A7003R6P02B1	
				△ LF882	87-A91-626-010	FLTR,LINE ELF21V018A	
C913	87-A11-106-080	CAP,TC U 560P-50 J CH		△ PT881	8Z-JBH-614-010	PT,US TP8155T	
C914	87-A10-052-080	CAP,E 2.2-250		R881	87-023-102-080	RES,SD 4.7M-1/2W K	

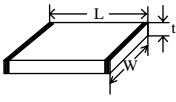
○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



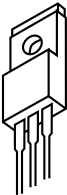
E C B

2SA1091-O
2SC1815
2SC2482



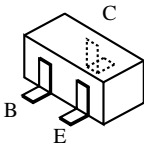
B C E

2SC5147D



B C E

2SA1837
2SC4793
2SD2531

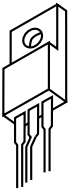


2SA1037
2SC2412K
KRC104S



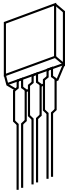
E C B

2SA1015Y



B C E

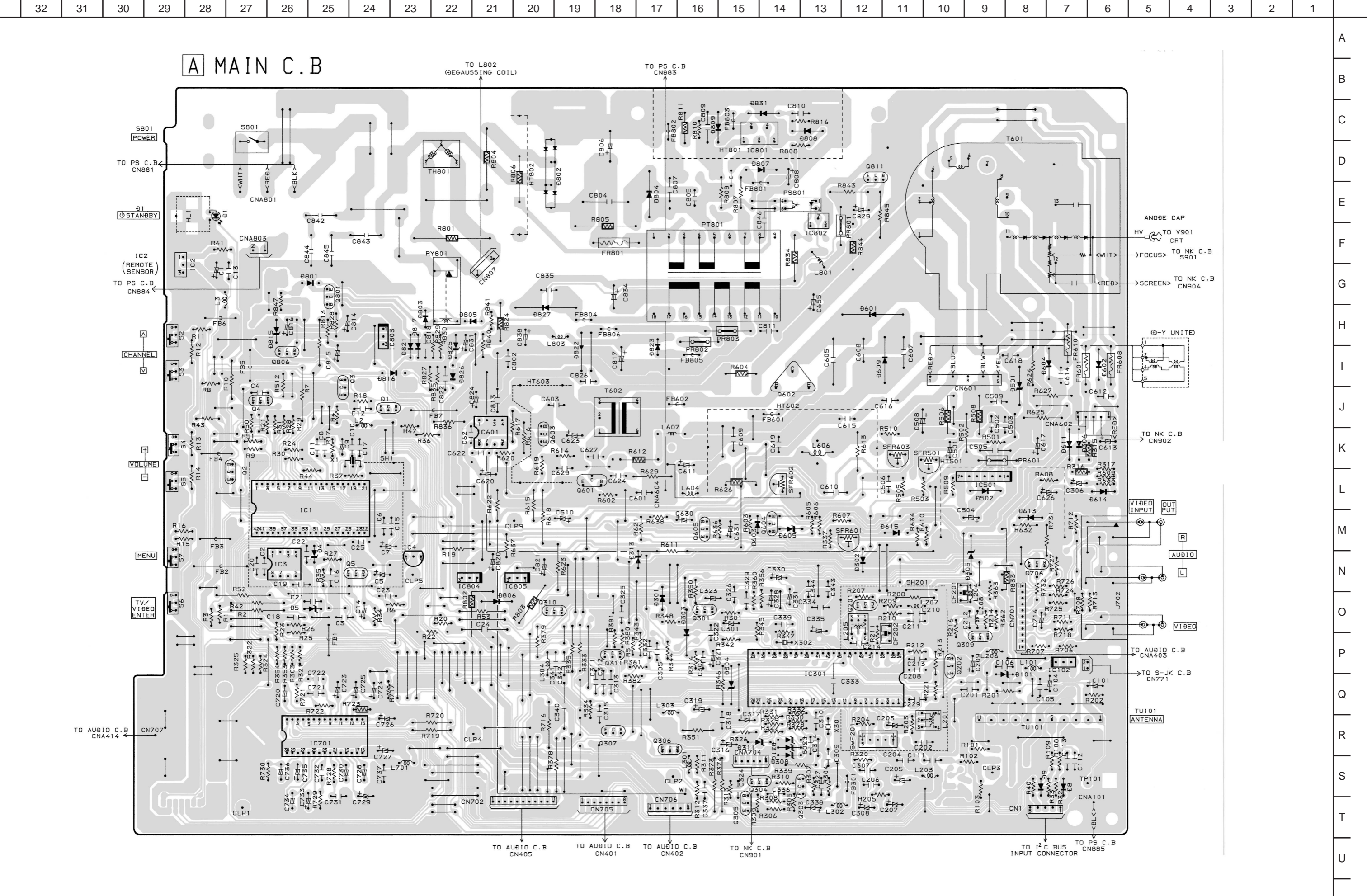
2SD2580



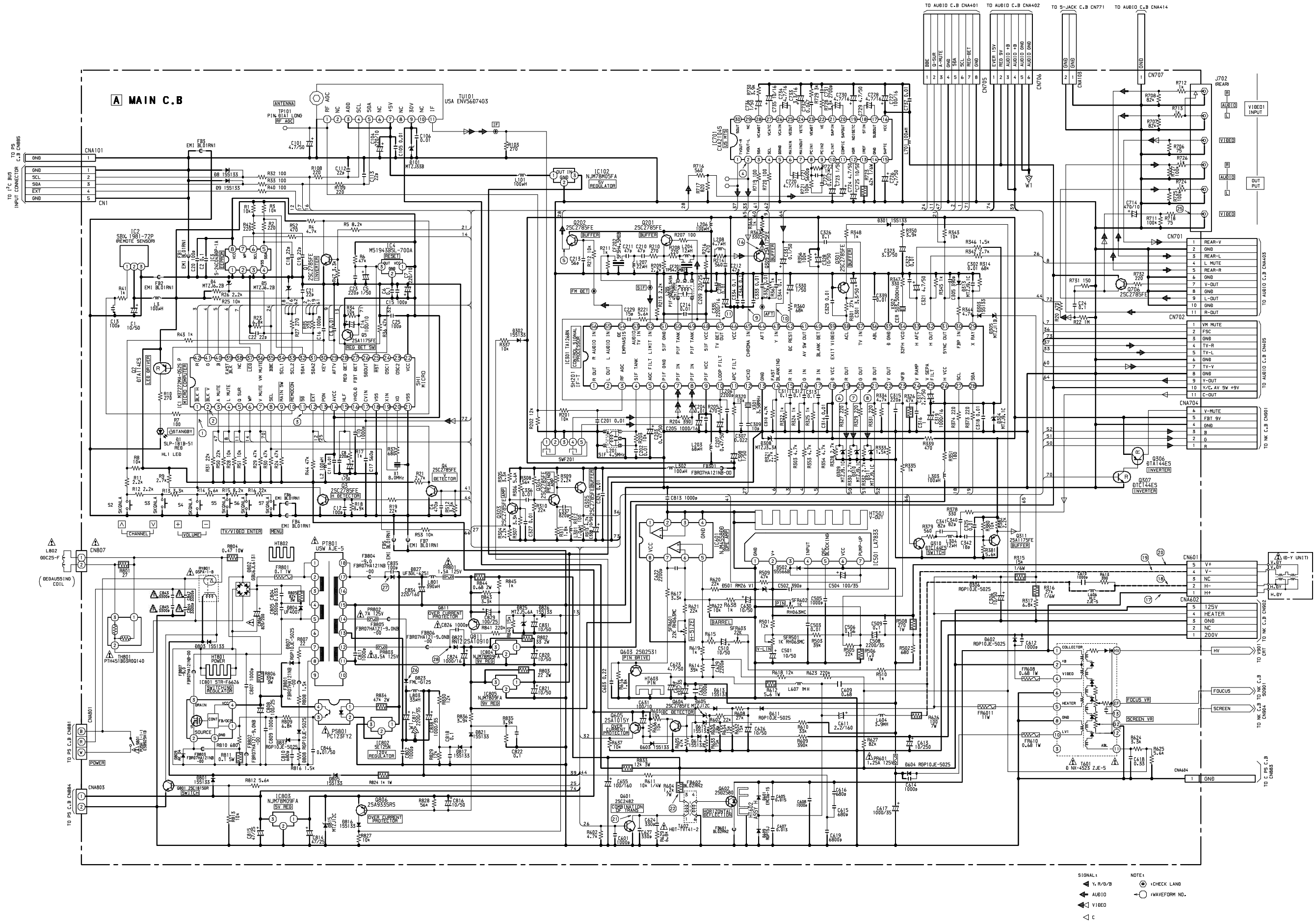
E C B

2SA933S 2SD774
2SA1175FE DTA114ES
2SC1740SRS DTA144ES
2SC2785FE DTC144ES

WIRING – 1 (MAIN)

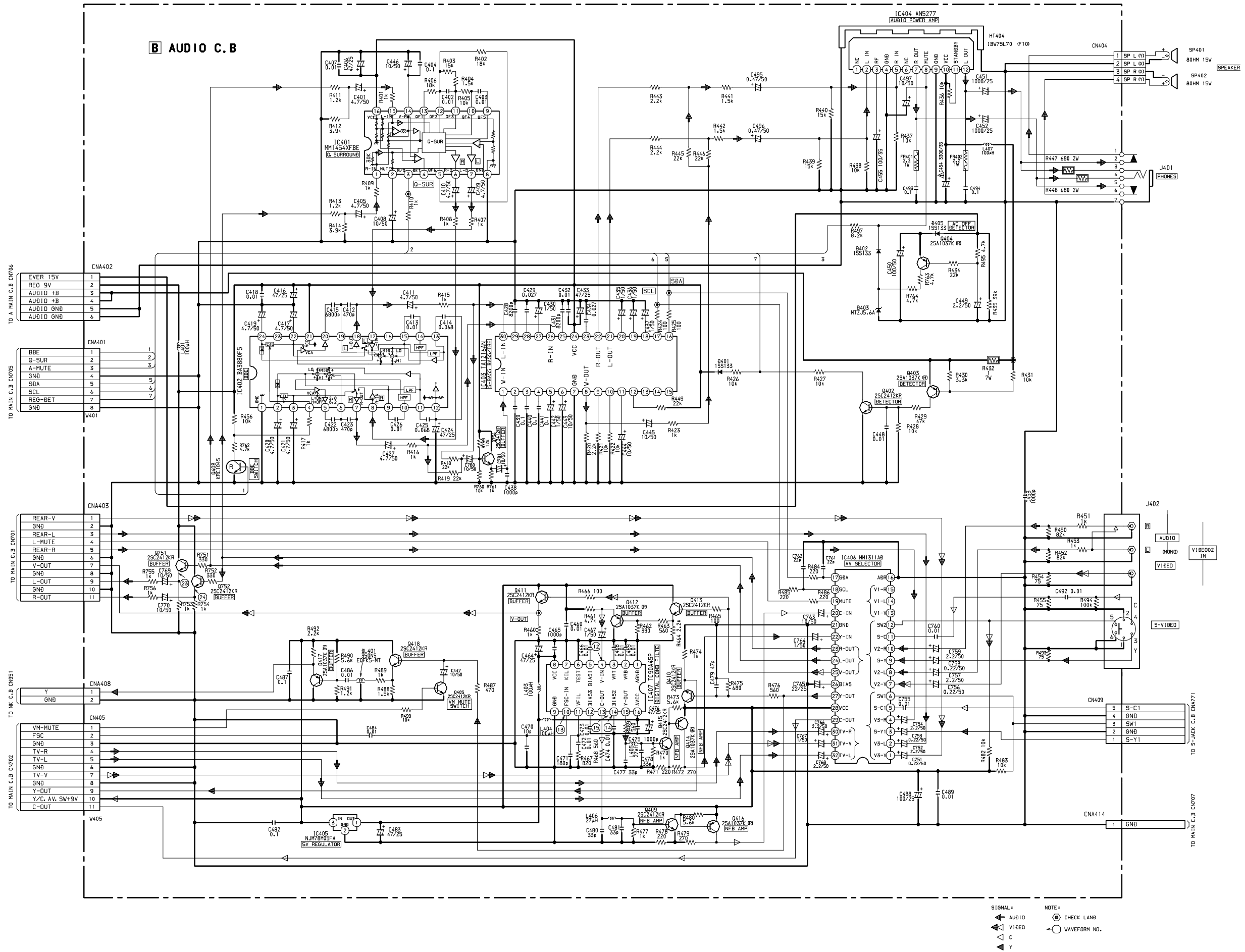


SCHEMATIC DIAGRAM – 1 (MAIN)

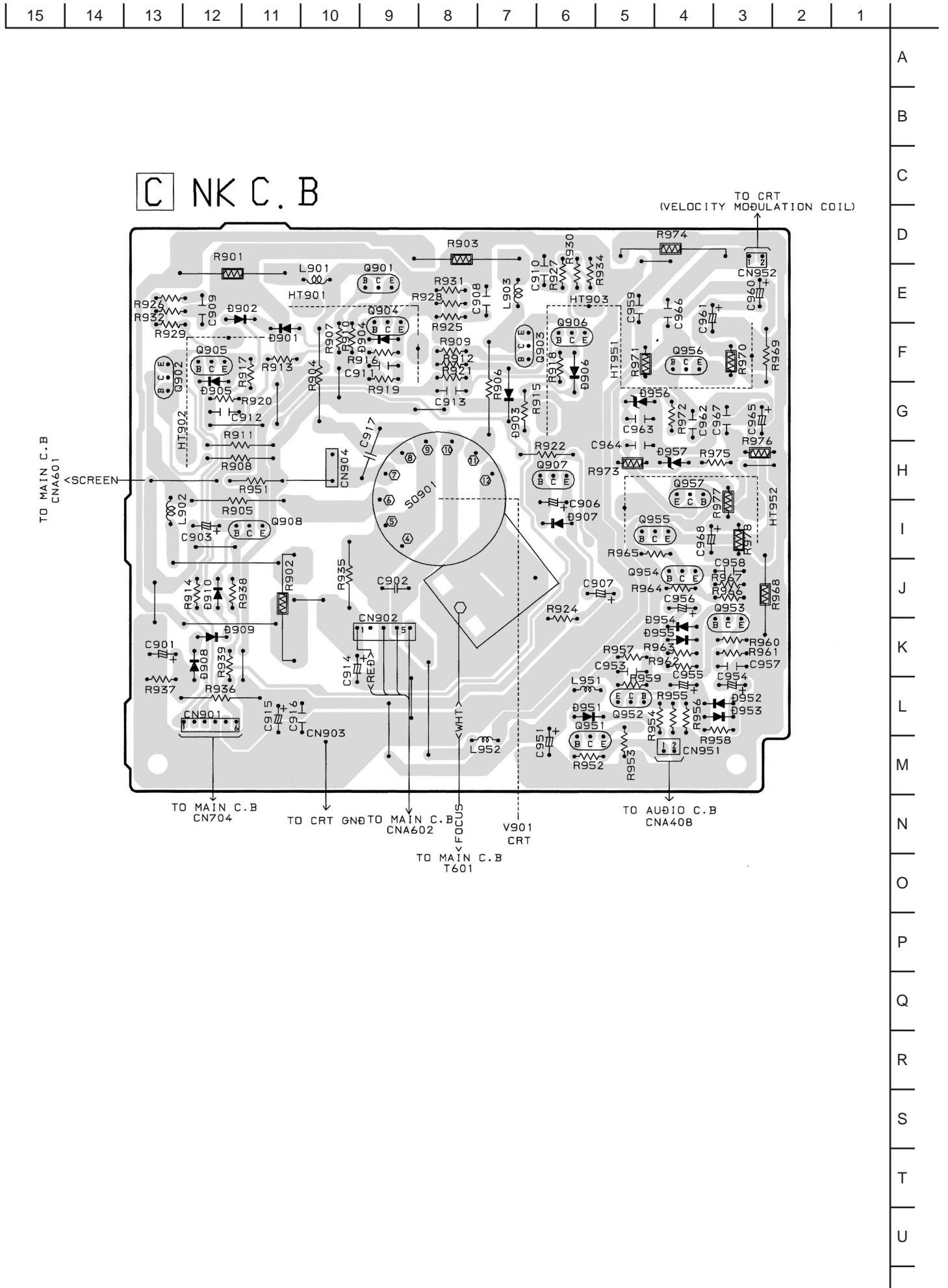




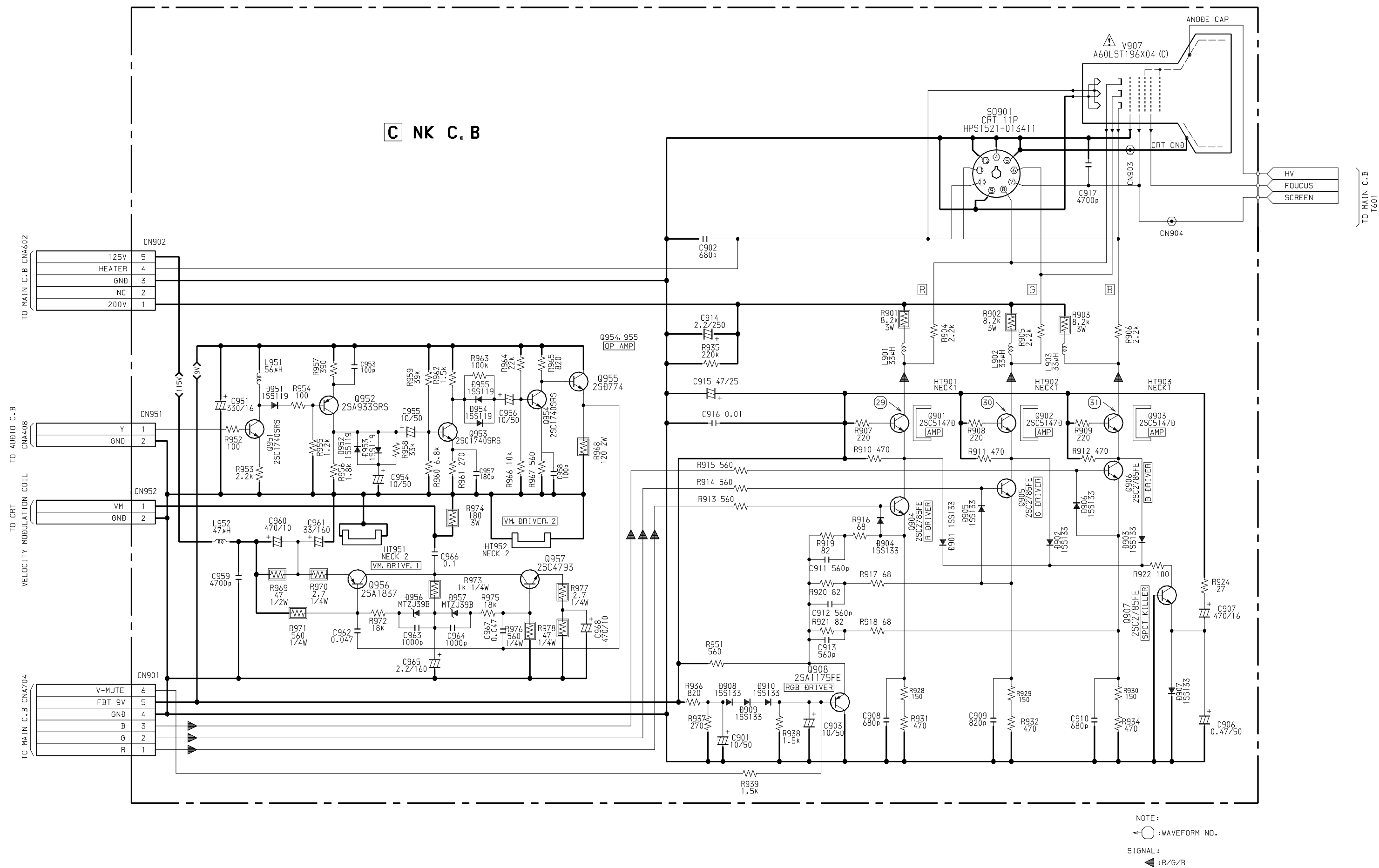
SCHEMATIC DIAGRAM – 2 (AUDIO)



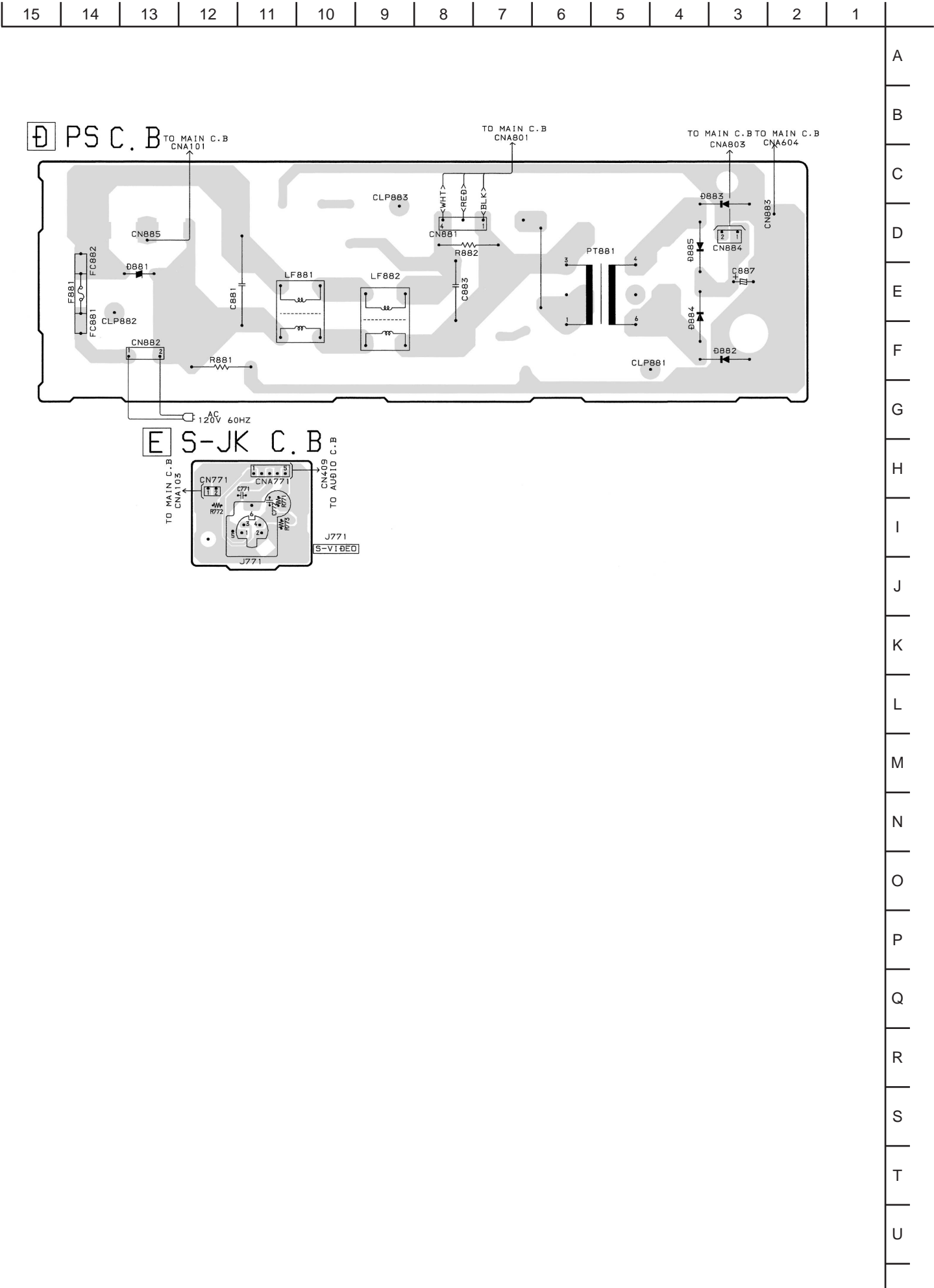
WIRING – 3 (NK)



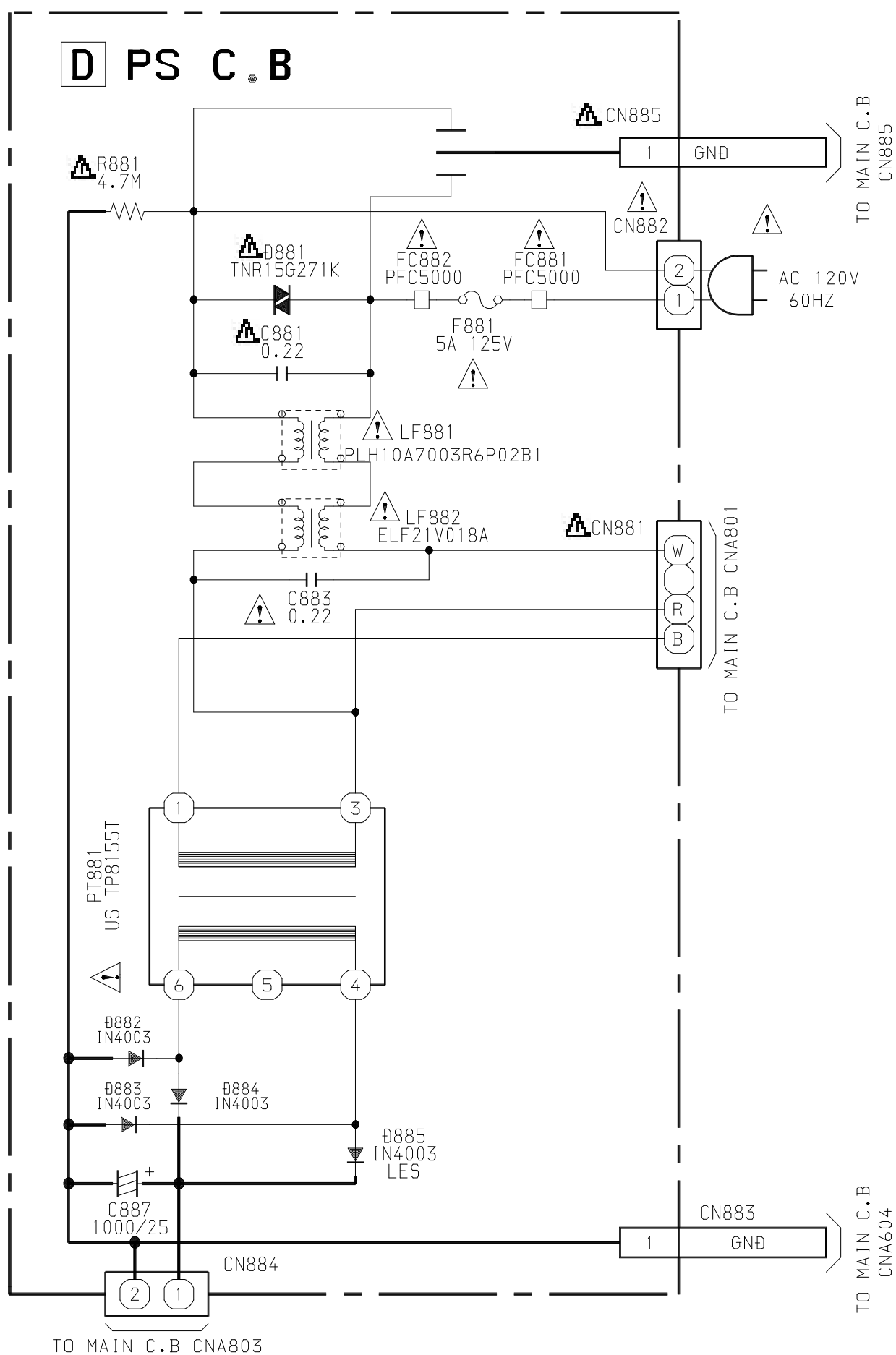
SCHEMATIC DIAGRAM – 3 (NK)

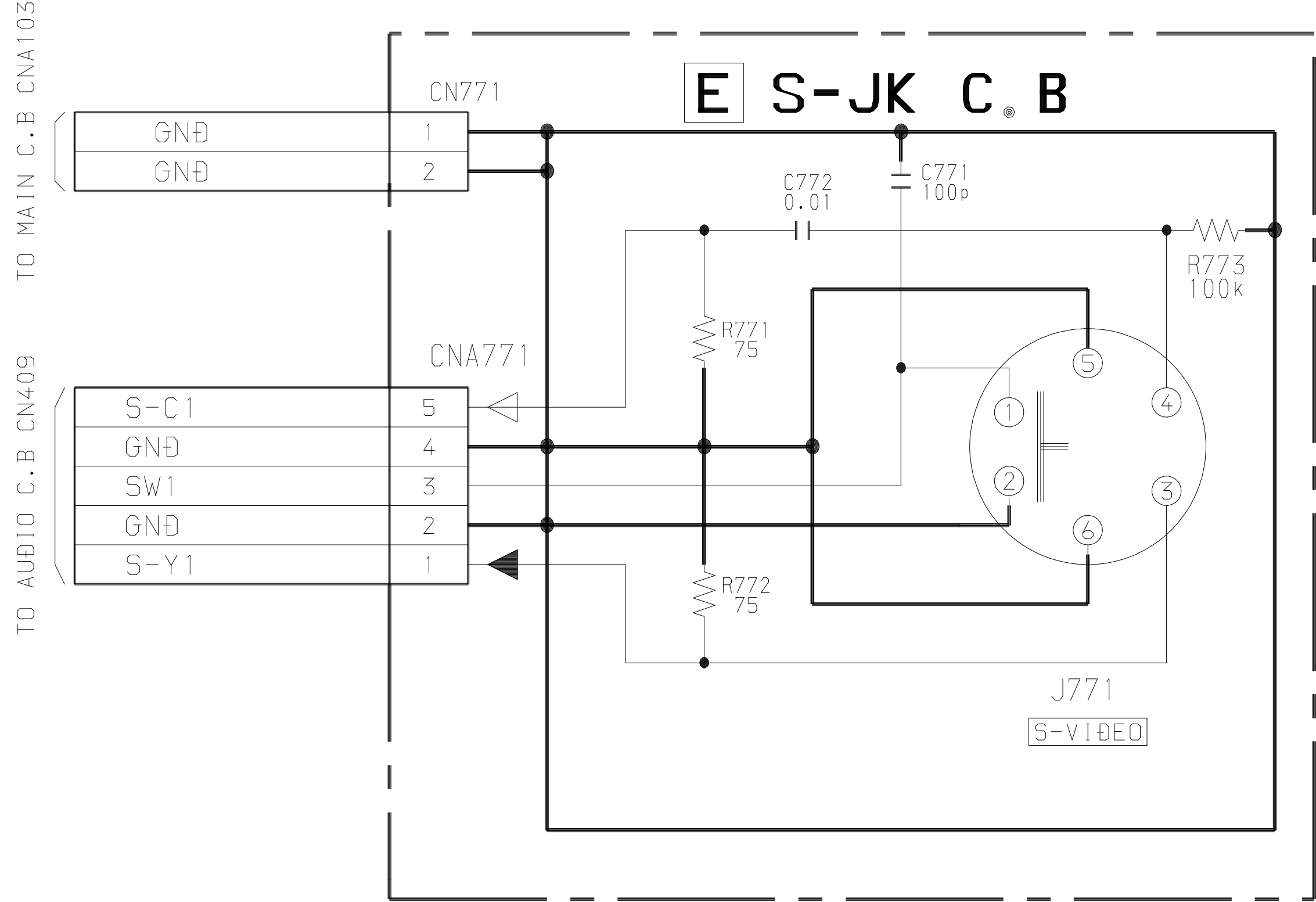


WIRING – 3 (PS / S-JK)



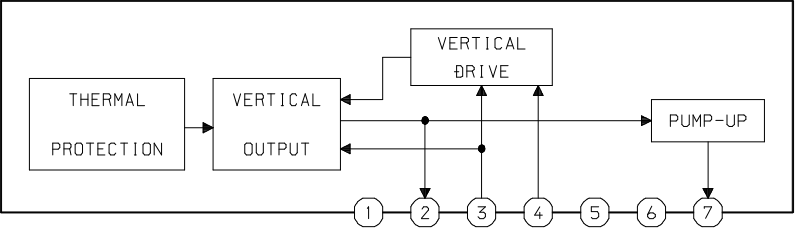
SCHEMATIC DIAGRAM – 3 (PS)



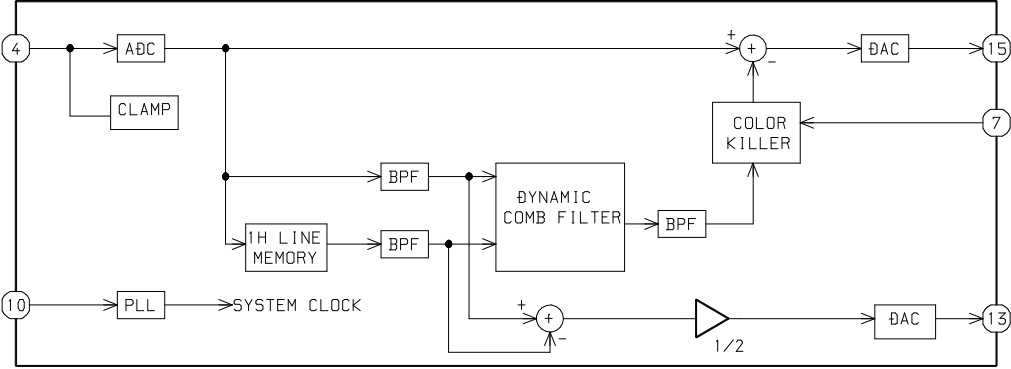


IC BLOCK DIAGRAM

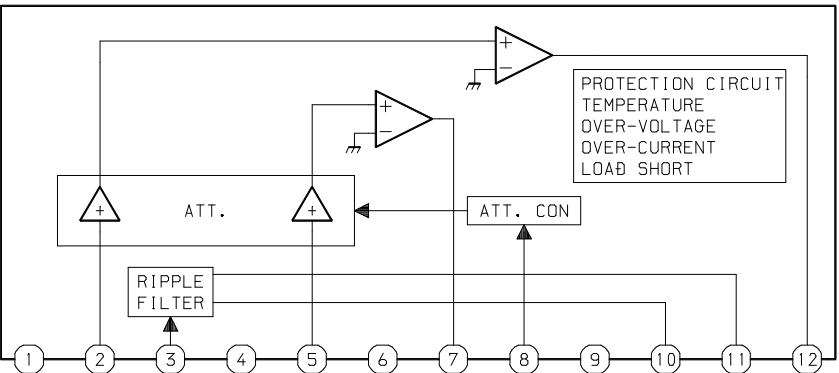
IC, LA7833



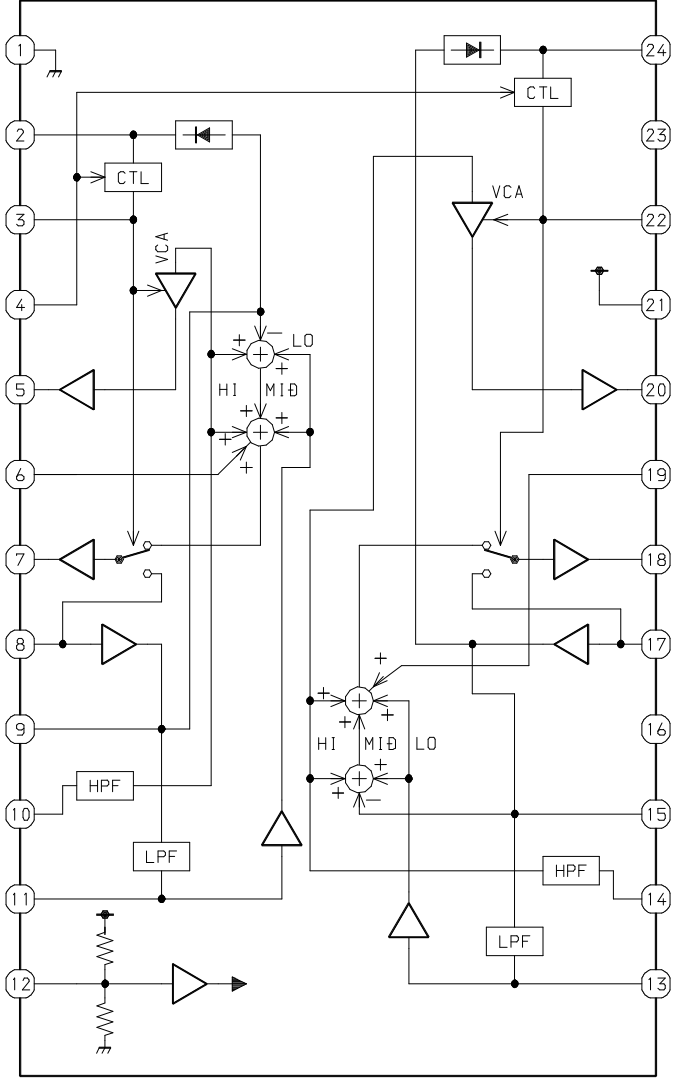
IC, TC90A45P



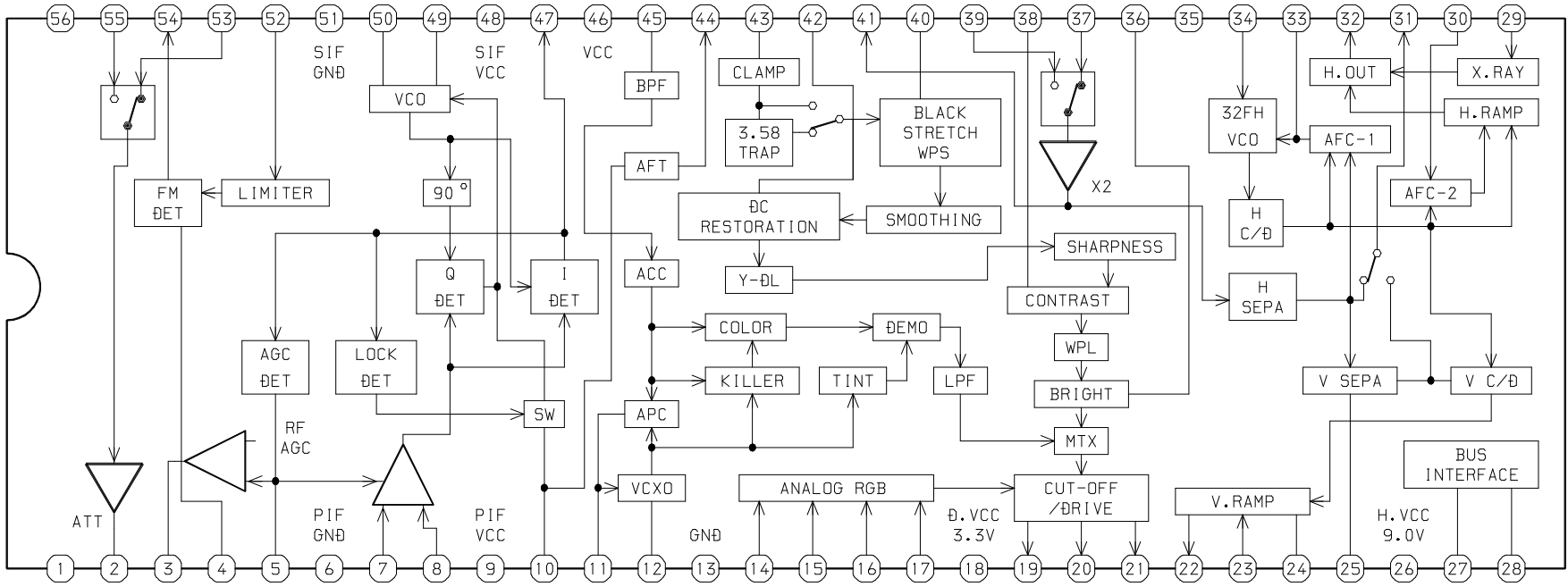
IC, AN5277



IC, BA3880FS



IC, TA1268N



IC DESCRIPTION

IC, M37272MA-0525SP

Pin No.	Pin Name	I/O	Description
1	BLK H	I	Blanking H sync input.
2	BLK V	I	Blanking V sync input.
3	A MUTE	O	Audio Amp mute.
4	L MUTE	O	Audio mute.
5	Q SUR	O	Q surround switch.
6	WP	O	EEPROM Write protect.
7	V MUTE	O	Video mute
8	SEL	O	BPF switch.
9	MAIN SW	–	Not used.
10	REMOCON	I	Remote control signal input.
11	SD	I	Pluse check.
12	EXT	I	I ² C switch.
13	PON	O	Power switch.
14	AVCC	–	VCC.
15	HLF	–	Filter Connection Terminal.
16	VHOLD	–	Condenser Connection Terminal.
17	CV IN	I	Complex video signal input
18	VSS	–	GND.
19	XIN	I	Main Clock (8 MHz).
20	XO	O	Main Clock (8 MHz).
21	VSS	–	GND.
22	VCC	–	VCC.
23	OSC2	–	Not used.
24	OSC1	–	Not used.
25	RST	I	Reset input.
26	SDOUT	O	Not used.
27	FBT DET	O	FBT detection (over 2.5V).
28	REG DET	I	REG detection (over 2.5V).
29	AFTV	I	AFT voltage input.
30	KEY	I	Key input.
31	SDA2	I	I ² C bus CH2 data (Reg IC).
32	SDA1	I	I ² C bus CH1 data (EEPROM).
33	SCL2	I	I ² C bus CH2 data (Reg IC).
34	SCL1	I	I ² C bus CH1 data (EEPROM).
35	BBE	O	BBE switch.
36	VM MUTE	O	VM mute.
37	LED	O	Power LED switch.
38	NC	–	Not connected.
39	FAST BLK	O	OSD Blanking.
40	B	O	OSD B output.
41	G	O	OSD G output.
42	R	O	OSD R output.

VOLTAGE CHART

(POWER ON, COLOR BAR, VOLUME 10)

REF NO.	E	C	B
Q1	0	4.61	0.310

REF NO.	E	C	B
Q2	5.11	-0.42	5.05

REF NO.	E	C	B
Q3	0	4.22	0.042

REF NO.	E	C	B
Q4	0	4.83	0.12

REF NO.	E	C	B
Q5	5.06	0	5.06

REF NO.	E	C	B
Q201	4.48	8.93	5.12

REF NO.	E	C	B
Q202	2.742	8.93	3.327

REF NO.	S	D	G
Q301	-0.342	2.484	0

REF NO.	S	D	G
Q303	2.725	4.88	3.725

REF NO.	E	C	B
Q304	1.871	6.71	2.465

REF NO.	S	D	G
Q305	6.1	9	6.7

REF NO.	E	C	B
Q306	9.01	0.625	8.93

REF NO.	E	C	B
Q307	0	8.93	0.014

REF NO.	E	C	B
Q309	3.668	0	3.042

REF NO.	E	C	B
Q310	0	0.65	0.012

REF NO.	E	C	B
Q311	3.92	0	3.304

REF NO.	E	C	B
Q402	0	5.05	0

REF NO.	E	C	B
Q403	29.78	0	29.76

REF NO.	E	C	B
Q404	12.48	0.088	12.59

REF NO.	E	C	B
Q405	0	0	0.009

REF NO.	E	C	B
Q408	0	8.61	0.008

REF NO.	E	C	B
Q409	1.418	8.22	1.977

REF NO.	E	C	B
Q410	1.654	8.86	2.270

REF NO.	E	C	B
Q411	4.46	8.86	5.11

REF NO.	E	C	B
Q412	2.435	0	1.820

REF NO.	E	C	B
Q413	4.46	8.86	5.10

REF NO.	E	C	B
Q414	8.86	2.897	8.22

REF NO.	E	C	B
Q415	1.32	8.23	1.875

REF NO.	E	C	B
Q416	8.86	3.11	8.22

REF NO.	E	C	B
Q417	2.2535	0	1.896

REF NO.	E	C	B
Q418	3.562	8.86	4.2

REF NO.	E	C	B
Q601	0.004	101.1	0.33

REF NO.	E	C	B
Q602	0.013	120.2	-0.121

REF NO.	E	C	B
Q603	0.003	15.46	0.552

REF NO.	E	C	B
Q604	0	5.11	0

REF NO.	E	C	B
Q605	5.11	0	5.11

REF NO.	E	C	B
Q706	3.807	8.86	4.45

REF NO.	E	C	B
Q751	3.424	8.61	4.059

REF NO.	E	C	B
Q752	3.421	8.62	4.056

REF NO.	E	C	B
Q756	3.358	8.62	3.887

REF NO.	E	C	B
Q801	0	0.082	0.751

REF NO.	E	C	B
Q806	5.11	-0.82	5.09

REF NO.	E	C	B
Q811	123.7	-0.012	123.4

REF NO.	E	C	B
Q901	8.52	142.6	8.98

REF NO.	E	C	B
Q902	8.51	139.7	8.98

REF NO.	E	C	B
Q903	8.51	138.1	8.98

REF NO.	E	C	B
Q904	2.076	8.52	2.44

REF NO.	E	C	B
Q905	2.098	8.51	2.467

REF NO.	E	C	B
Q906	2.142	8.51	2.490

REF NO.	E	C	B
Q907	0.157	8.64	0

REF NO.	E	C	B
Q908	1.316	0	0.609

REF NO.	E	C	B
Q951	1.920	9.01	2.545

REF NO.	E	C	B
Q952	7.68	3.219	8.31

REF NO.	E	C	B
Q953	0.63	5.53	1.273

REF NO.	E	C	B
Q954	2.060	5.96	2.709

REF NO.	E	C	B
Q955	5.34	9.01	5.95

REF NO.	E	C	B
Q956	123	61.8	122.5

REF NO.	E	C	B
Q957	0.188	61.8	0.743

IC1, M37272MA-052SP

PIN NO.	VOLT (V)
1	4.22
2	4.83
3	0.022
4	0.02
5	0.029
6	5.11
7	0.015
8	0.014
9,10	5.09
11	4.61
12	5.09
13	5.01
14	5.06
15	1.978
16	0.336
17	2.328
18	0
19	2.288
20	2.339
21	0
22	5.06
23	5.04
24	5.06
25	5.04
26	5.06
27	0
28	2.481
29	2.48
30	5.11
31	3.83
32	5.06
33	4.15
34	5.06
35	0.009
36	0.01
37,38	5.05
39~42	0.011

IC2, SBX1981-72P

PIN NO.	VOLT (V)
1	5.09
2	5.11
3	0

IC3, S-24CO4BDP-1A

PIN NO.	VOLT (V)
1~4	0
5,6	5.05
7	5.11
8	5.06

IC4, M51943BSL-700A

PIN NO.	VOLT (V)
1	5.06
2	0
3	5.03

IC102, NJM78M05FA

PIN NO.	VOLT (V)
1	5.09
2	0
3	9.02

IC301, TA1268N

PIN NO.	VOLT (V)
1	0.025
2	3.946
3	0.002
4	3.257
5	0.696
6	0
7	1.99
8	1.989
9	8.97
10	4.45
11	6.35
12	4.83
13	0
14	0.008
15,16	4.86
17	4.83
18	3.195
19	2.406
20	2.441
21	2.459
22	0.754
23	4.99
24	5.09
25	6.6
26	9.05
27	4.1
28	3.83
29	2.626
30	1.331
31	1.145
32	1.246
33	7.61
34	6.61
35	0
36	3.112
37	3.263
38	3.993
39	1.812
40	5.22
41	4.07

PIN NO.	VOLT (V)
42	4.77
43	4.71
44	2.476
45	3.921
46	9.03
47	5.13
48	8.93
49,50	7.94
51,52	0
53	3.534
54	3.529
55	2.786
56	0

IC401, MM1454XFBF

PIN NO.	VOLT (V)
1	3.972
2	3.973
3	0.027
4	0.007
5	3.979
6,7	3.984
8	0
9,10	3.981
11	3.98
12,13	3.982
14	4.62
15	3.972
16	8.62

IC402, BA3880FS

PIN NO.	VOLT (V)
1	0
2	4.29
3	6.2
4	8.61
5~15	4.43
16	0
17~20	4.43
21	8.62
22	6.15
23	0
24	4.29

IC403, TA1216AN

PIN NO.	VOLT (V)
1	4.81
2	5.43
3	5.37
4	5.45
5	0.23
6	5.54
7	0
8	3.896
9,10	0.013
11	4.76
12	0.062
13	0.678
14	0.71
15	5.12
16	3.84
17	4.15
18	4.73
19	1.794
20	4.67
21,22	4.17
23	4.84
24	8.62
25	4.83
26	4.82
27	4.67
28	4.84
29	4.83
30	4.82

IC404, AN5277

PIN NO.	VOLT (V)
1~2	0
3	28.47
4~6	0
7	14.34
8	0.622
9	0
10	29.73
11	18.94
12	14.36

IC405, NJM78M05FA

PIN NO.	VOLT (V)
1	5.12
2	0
3	8.86

IC406, MM1311AD

PIN NO.	VOLT (V)
1	4.63
2	4.88
3	4.22
4	4.87
5	4.2
6	8
7	4.22
8	4.87
9	4.22
10	4.87
11	4.2
12	8
13	4.33
14,15	4.88
16	0
17	3.84
18	4.15
19	0.018
20	4.19
21	0
22	5.14
23	4.062
24	4.064
25	5.11
26	4.24
27	4.2
28	8.86
29	3.435
30	4.87
31	4.22
32	4.87

IC407, TC90A45P

PIN NO.	VOLT (V)
1	0
2	2.237
3	2.801
4	2.422
5	1.275
6,7	0
8	5.08
9	0
10	2.162
11	2.033
12	3.424
13	3.092
14	1.546
15	2.945
16	5

IC501, LA7833

PIN NO.	VOLT (V)
1	0
2	16.58
3	27.18
4	0.747
5	0.751
6	26.55
7	2.661

IC601, NJM4558DD

PIN NO.	VOLT (V)
1	26.13
2~4	0.005
5	5.15
6	5.16
7	4.82
8	26.55

IC701, CXA2104S

PIN NO.	VOLT (V)
1,2	4.065
3	3.83
4	4.1
5	0
6	4.051
7	3.877
8	4.046
9	3.837
10	5.15
11	4.045
12	1.254
13	1.254
14	0
15	4.31
16	8.77
17	4.048
18	4.057
19	3.95
20	4
21	4.05
22	3.94
23	4.051
24	1.745
25	4.064
26	4.052
27	1.703
28	3.903
29	-0.013
30	4

IC802, SE120N

PIN NO.	VOLT (V)
1	124.4
2	91.2
3	0

IC803, NJM78M05FA

PIN NO.	VOLT (V)
1	5.11
2	0
3	12.51

IC804, NJM78M09FA

PIN NO.	VOLT (V)
1	8.87
2	0
3	11.77

IC805, NJM7809FA

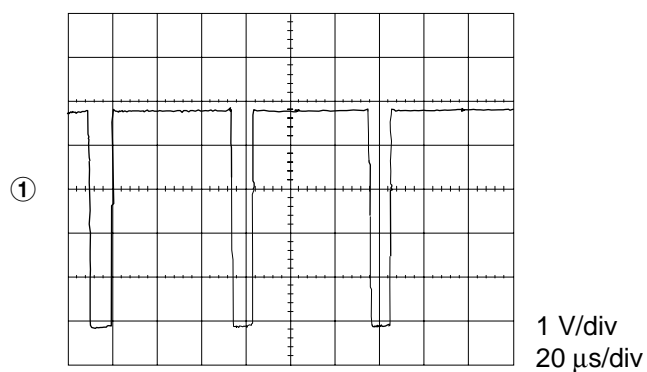
PIN NO.	VOLT (V)
1	9.04
2	0
3	11.77

TU101

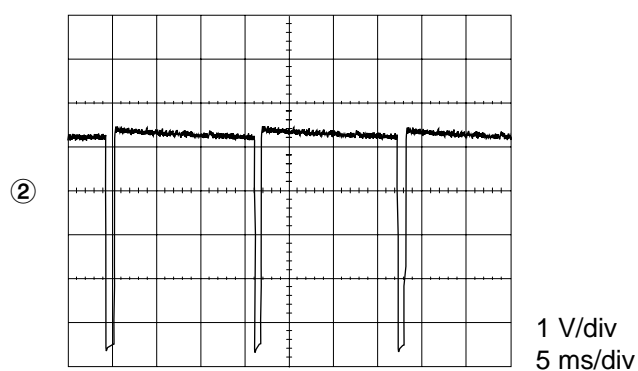
PIN NO.	VOLT (V)
1	0
2	9.3
3	4.8
4	4.15
5	3.82
6	0
7	4.8
8	0
9	32.49
10,11	0

WAVEFORM

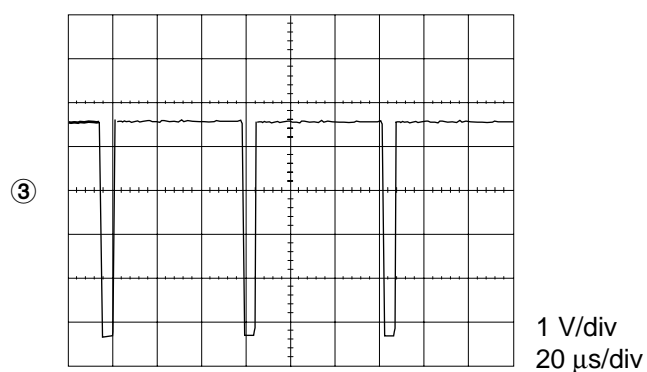
① IC1 PIN 1 ($\overline{\text{BLK H}}$)



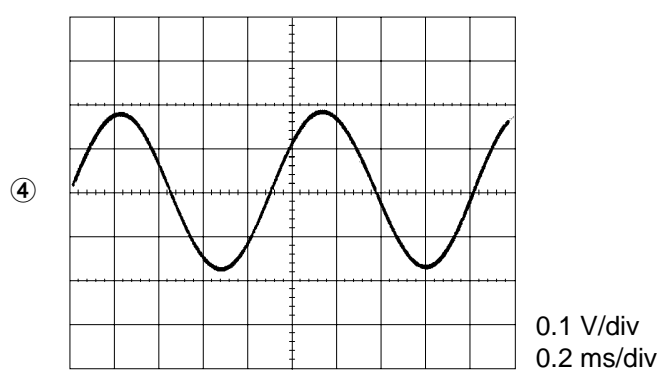
② IC1 PIN 2 ($\overline{\text{BLK V}}$)



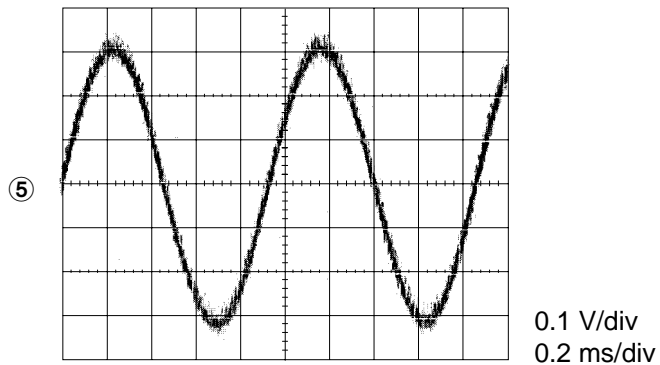
③ IC1 PIN 11 ($\overline{\text{SD}}$)



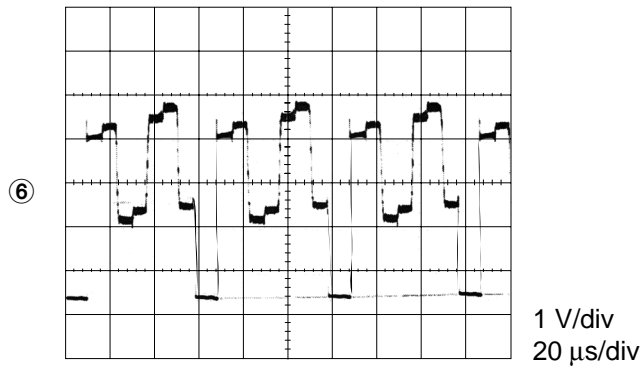
④ IC701 PIN 2 (TVOUT-L)



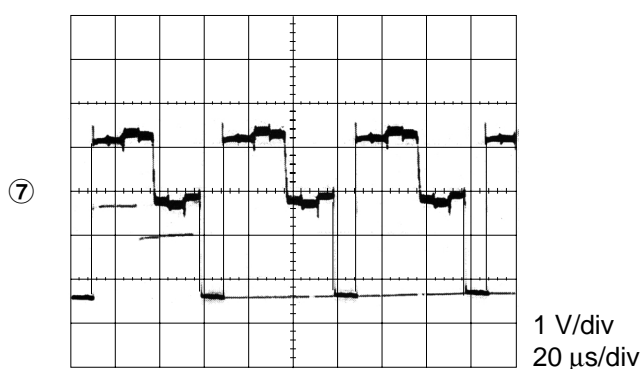
⑤ Q202 EMITTER



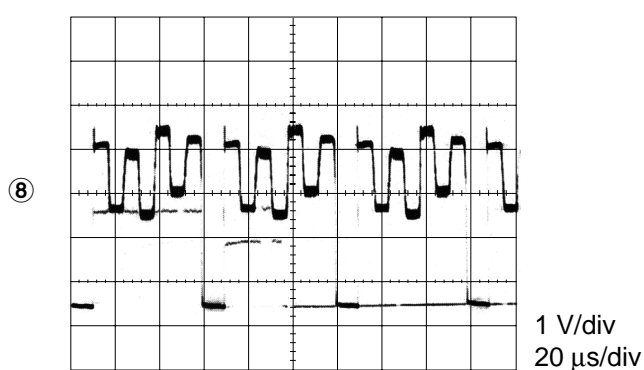
⑥ IC301 PIN 19 (R OUT)



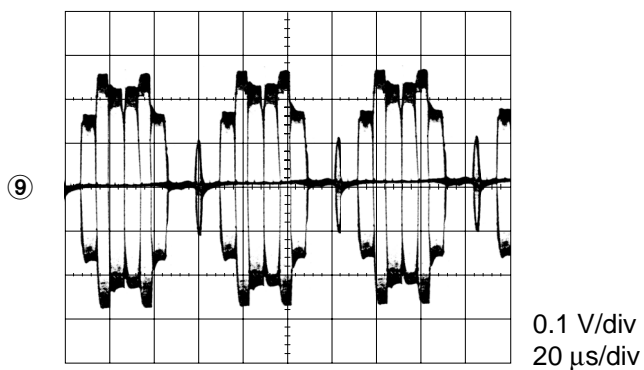
⑦ IC301 PIN 20 (G OUT)



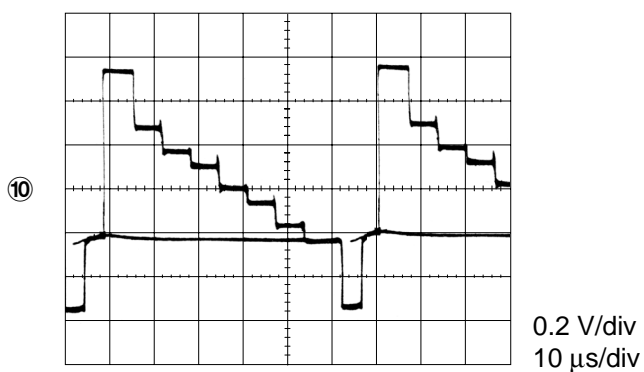
⑧ IC301 PIN 21 (B OUT)



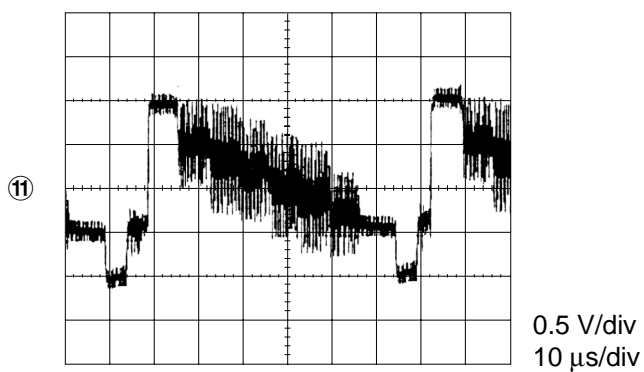
⑨ IC301 PIN 45 (CHROMA IN)



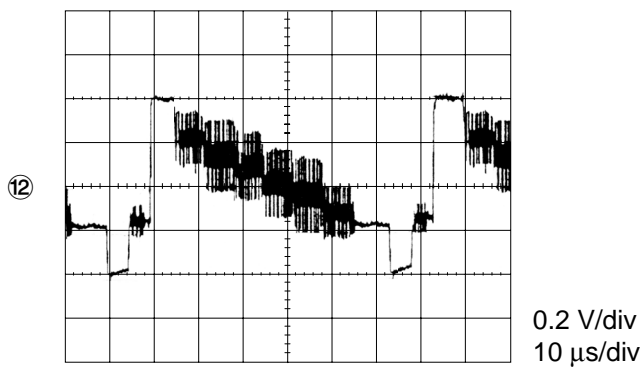
⑩ IC301 PIN 43 (Y IN)



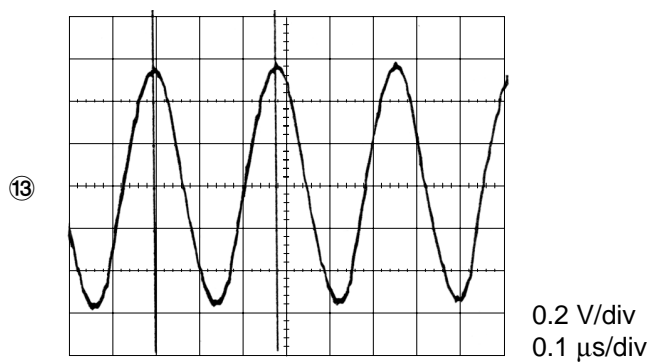
⑪ IC301 PIN 47 (TV DET OUT)



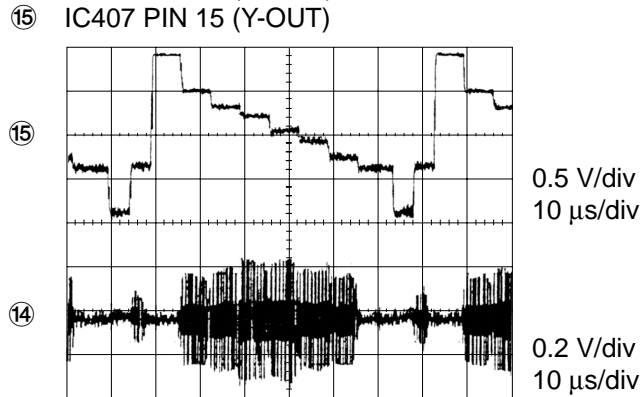
⑫ IC407 PIN 4 (V-IN)



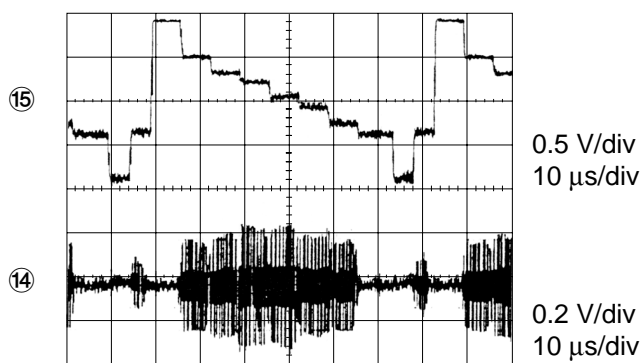
⑬ IC407 PIN 10 (FSC-IN)



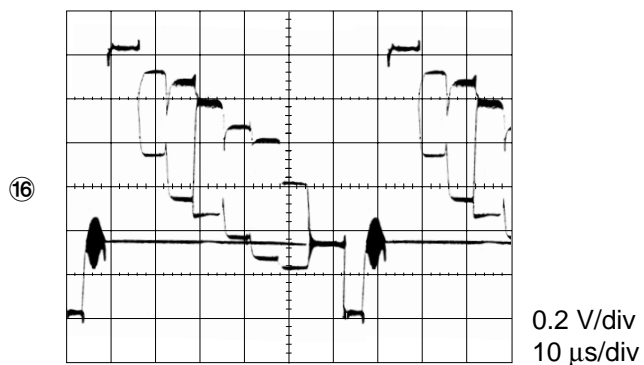
⑭ IC407 PIN 13 (C-OUT)



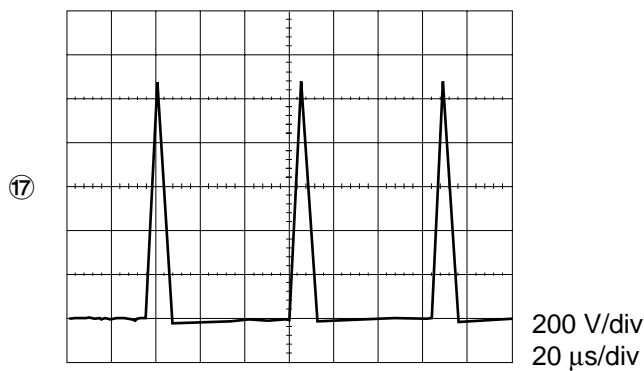
⑮ IC407 PIN 15 (Y-OUT)



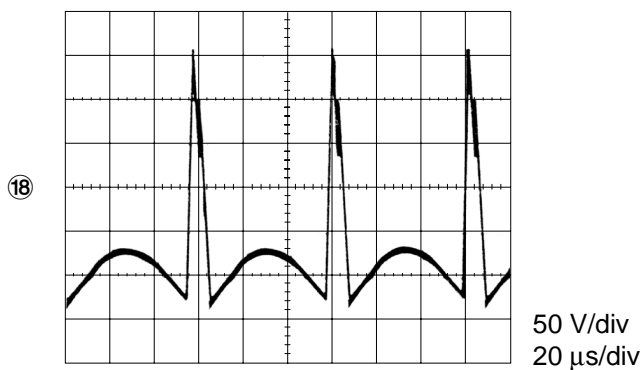
⑯ Q309 EMITTER



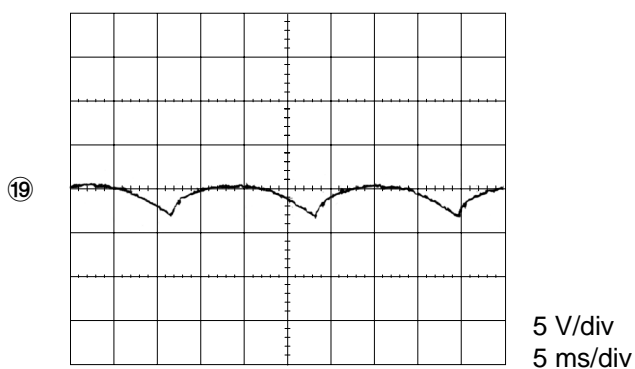
⑰ CN601 PIN 1 (H+)



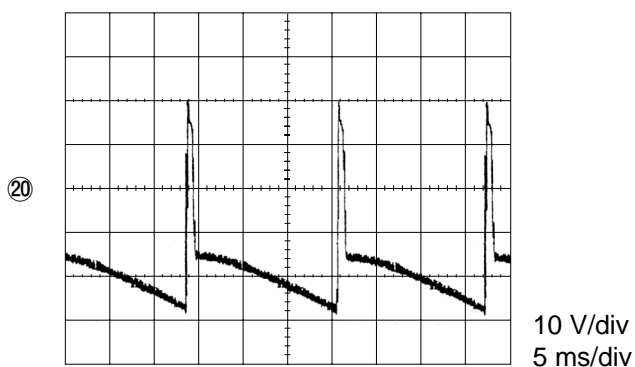
⑮ CN601 PIN 2 (H-)



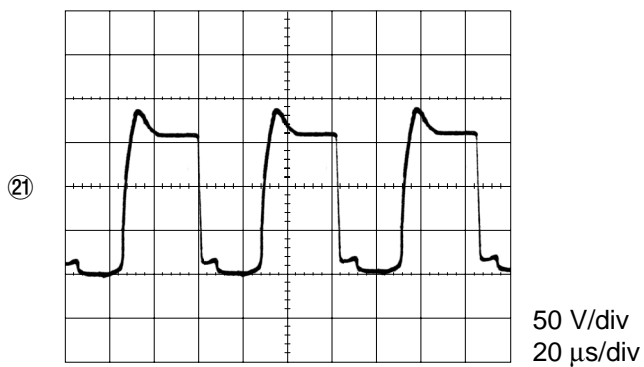
⑯ CN601 PIN 4 (V-)



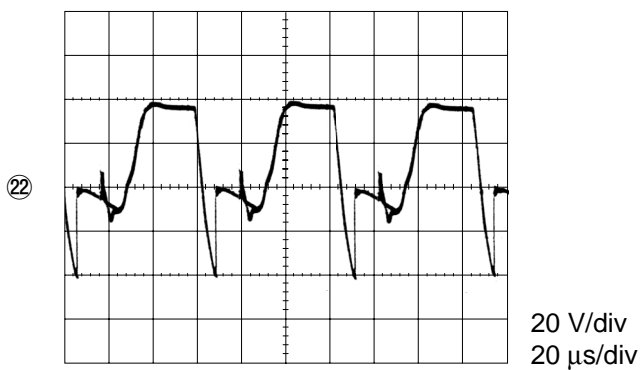
⑰ CN601 PIN 5 (V+)



⑱ Q601 COLLECTOR

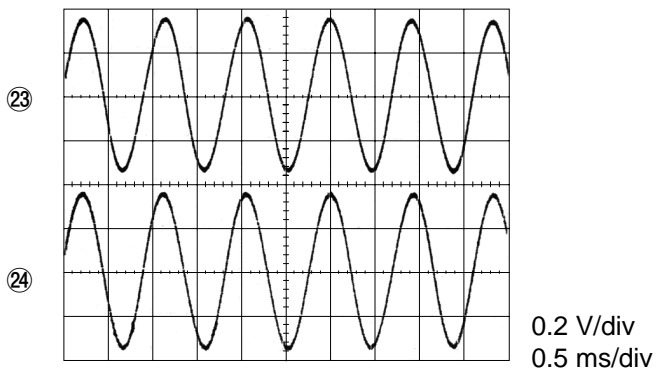


⑳ T602 PIN 3

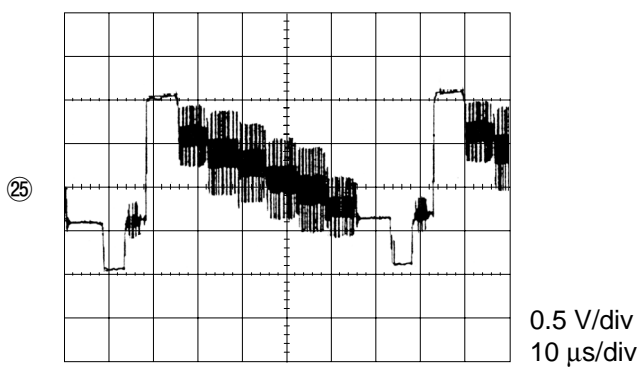


㉑ Q751 (EMITTER)

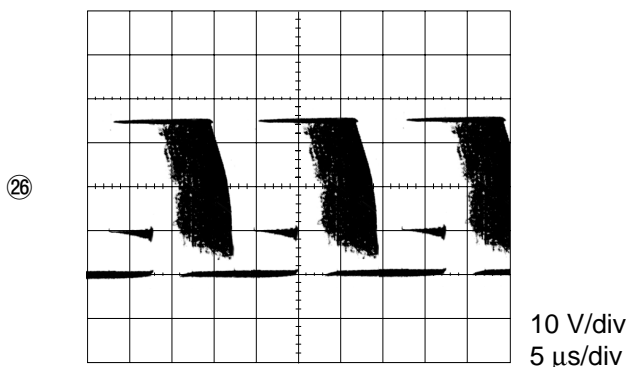
㉒ Q752 (EMITTER)



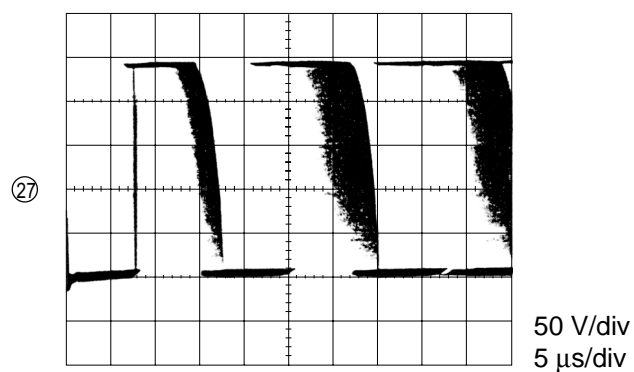
㉓ J702 (VIDEO OUTPUT)



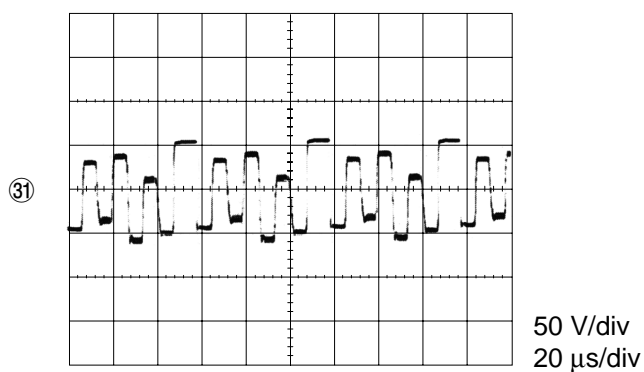
㉔ D823 ANODE (at POWER ON)



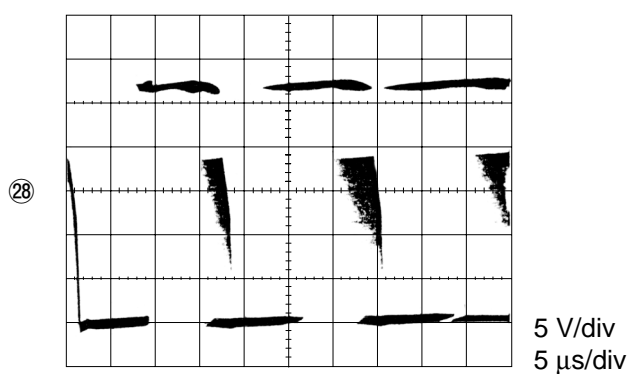
②⑦ D827 ANODE (at POWER ON)



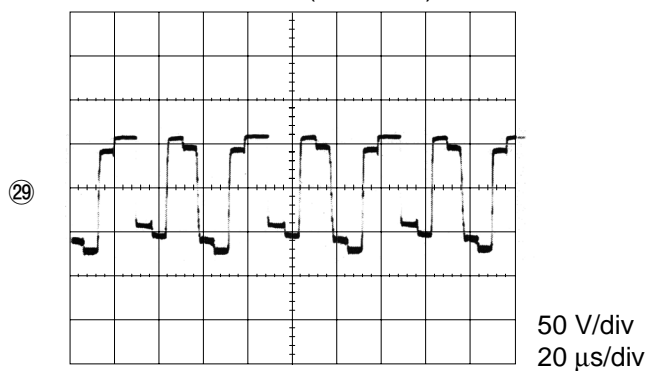
③① Q903 COLLECTOR (B-DRIVE)



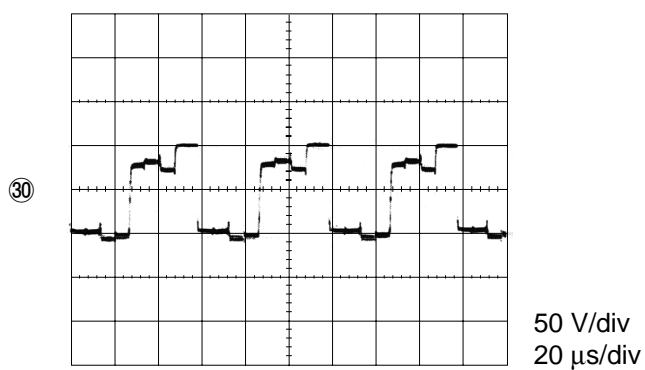
②⑧ D822 ANODE (at POWER ON)



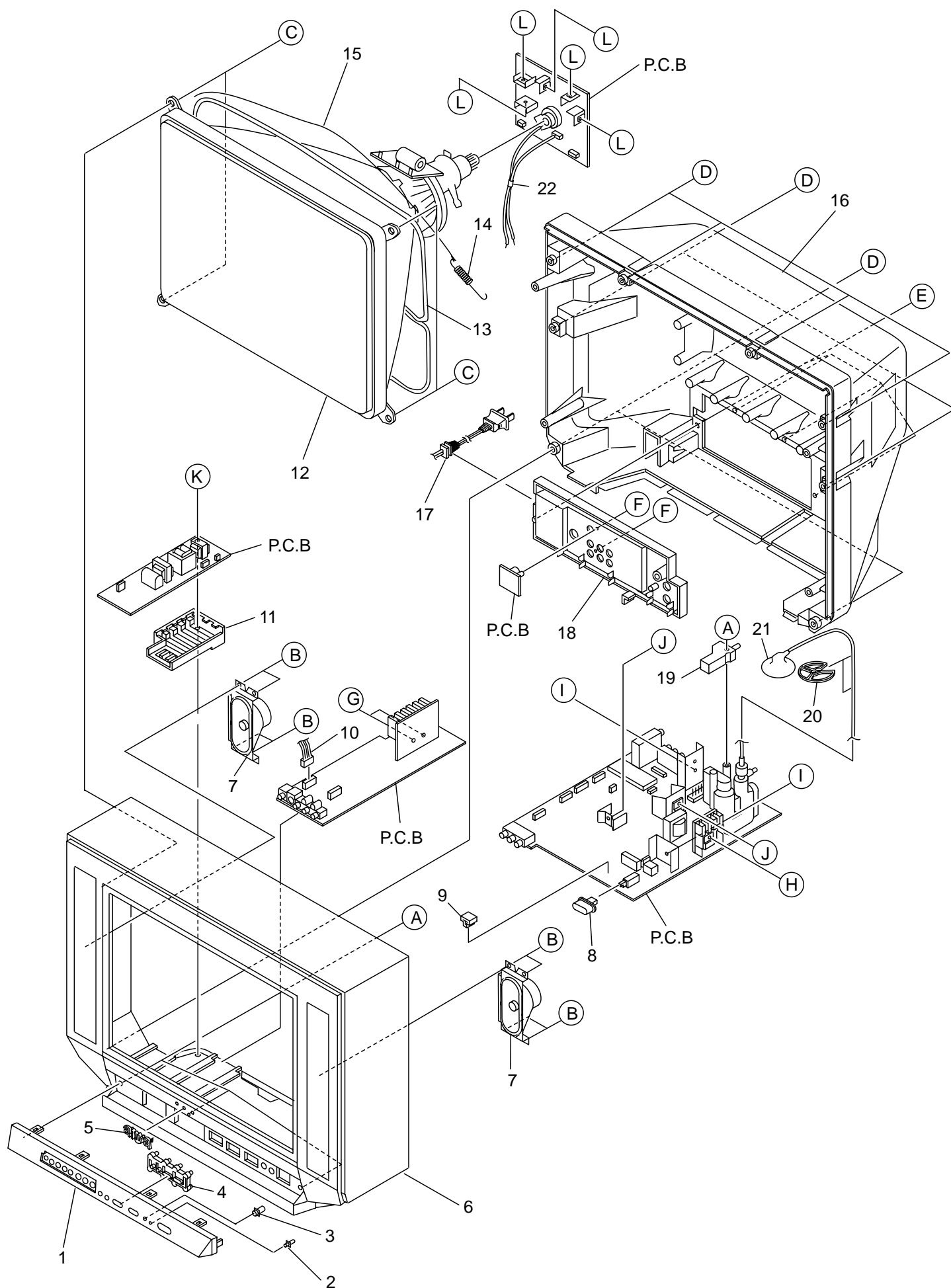
②⑨ Q901 COLLECTOR (R-DRIVE)



③① Q902 COLLECTOR (G-DRIVE)



MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-JE5-003-010		PANEL,MAIN U
2	8Z-JE7-005-010		LENS,LED
3	8Z-JE7-006-010		LENS,RC
4	8A-JE7-003-010		KEY,MAIN 3
5	8Z-JE7-008-010		BADGE,AIWA ST 52.5
6	8A-JE5-006-010		CABI,FR U ASSY
7	8Z-JB3-620-010		SPKR,6*12 8OHM 15W
8	8A-JE7-004-010		BTN,POWER 3
9	84-LB3-216-010		HLDL,LED
10	8Z-JE5-640-010		CONN ASSY,4P SP-25
△	11	8Z-JE5-205-110	HLDL,PWB
△	12	8A-JE5-607-010	CRT,A60LST196(0.45)
	13	8Z-JE5-625-010	COIL,DGC 25-F
	14	83-JT1-217-010	SPR-E,EARTH
	15	8Z-JE5-607-010	CONN ASSY,1P CRT-GND
△	16	8A-JE5-002-010	CABI,REAR U
	17	8A-JE5-616-010	AC CORD ASSY,USA LK
	18	8A-JE5-004-010	PANEL,REAR U
	19	8Z-JE5-202-010	HLDL,FBT-25
	20	87-A90-332-010	HLDL,SF-2001 HV CABLE
	21	8Z-JE7-609-010	ANODE-CAP,ZJE-7
	22	8Z-JE7-610-010	HV-CABLE, 2P ZJE-7FOC-SCR
A	87-067-680-010		BVI T3+3-10
B	87-078-070-010		BVIT3B+4-12
C	86-LBB-206-010		S-SCREW,ASSY TV5-40 W20
D	87-067-844-010		BVT2+4-16 BLK
E	87-067-690-010		TAPPING SCREW, BVIT3+3-12
F	87-067-761-010		TAPPING SCREW, BVT2+3-10
G	87-067-688-010		BVTT+3-6
H	87-067-619-010		BVT1+3-12
I	87-067-579-010		TAPPING SCREW, BVT2+3-8
J	87-067-758-010		BVT2+3-12 W/O SLOT
K	87-067-822-010		BVT2+3-20 W/O SLOT
L	87-067-641-010		UTT2+3-8(W/O SLOT)BL

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111