

SERVICE MANUAL

COLOR TELEVISION

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-003-431-4T1).
- This Service Manual does not include "DISASSEMBLY INSTRUCTIONS" and "ADJUSTMENT". These items will be issued in the next Supplement.

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 6.0 to 10 M Ω when applying 500V per second.
 - 2) In the voltage withstand test, apply 1.0 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.

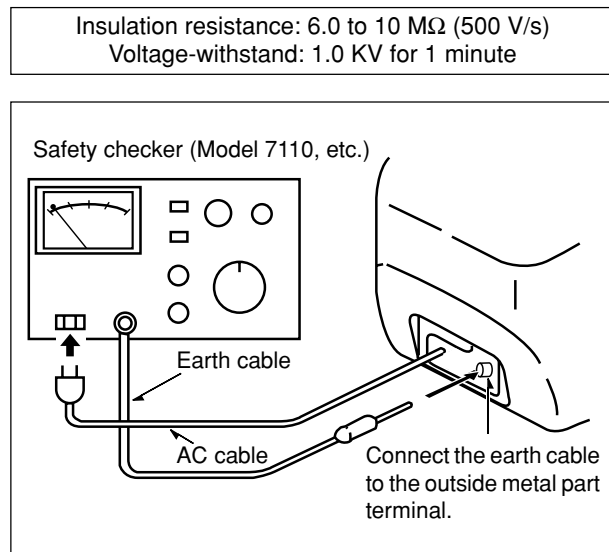


Fig-1

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.

SPECIFICATIONS

Tuner System	Frequency synthesized tuner
TV System	PAL (B/G, H, D/K) SECAM (B/G, D/K, K1)
Channel Coverage	VHF: E2 to E12, R1 to R12 UHF: 21 to 69 CATV: S1 to S41
Program Memory	100 TV stations
Antenna Input	75 ohms, unbalanced
Picture Tube	21"
Screen Size	406 (W) X 305 (H) mm (16 x 12 ¹ / ₈ in.) 508 mm (diagonal) (20 in.)
Video Input/Output	1 Vp-p 75 ohms
Audio Input	-8dBs., more than 33 kohms
Audio Output	-8dBs., less than 2.2 kohms
Speaker	60 X 120 mm (2 ³ / ₈ X 4 ³ / ₄ in.)
Operating Voltage	110-240 V AC, 50/60 Hz
Power Consumption	85 W (Standby mode: 13.5 W)
Phone Jack	Stereo-mini jack
Operating Temperature	5 °C – 40 °C
Operating Humidity	35 % – 80 %
Dimensions	610 (W) X 440 (H) X 480(D) mm (24 ¹ / ₈ x 17 ³ / ₈ x 19 in.)
Weight	21.4kg (47.08 lbs.)

- Design and specifications are subject to change without notice.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
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ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C17	87-010-404-080		CAP, ELECT 4.7-50V
	8A-JEH-651-010	IC,TMP87CP38N		C100	87-010-384-080		CAP,E 100-25 SME
	87-A21-133-080	IC,BMR-0101D		C101	87-010-404-080		CAP, ELECT 4.7-50V
	87-A91-538-010	RCR UNIT,SBX1981-72P		C102	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A21-433-010	IC,KS24C041I		C103	87-010-384-080		CAP, ELECT 100-25V
	87-A21-165-010	IC,TB1240AN		C104	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A21-166-010	IC,TA1275AZ		C105	87-010-263-080		CAP, E 100-10 M SME
	87-A21-259-010	IC,MM1454XD		C106	87-A10-207-080		CAP,TCS 0.01-50KBUP050
	87-A21-345-010	IC,NJM2150		C107	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A20-312-010	IC,M62420SP		C108	87-018-132-080		CAP, CER 2200P-16V
	87-A21-299-010	IC,LA6458SLL		C110	87-018-132-080		CAP, CER 2200P-16V
	87-A21-169-010	IC,MM1124B		C111	87-018-132-080		CAP, CER 2200P-16V
	87-A21-283-010	IC,AN5277		C113	87-010-260-080		CAP, ELECT 47-25V
	87-070-237-010	IC,LA7832		C117	87-018-134-080		CAP, TC U 0.01-16
	87-A21-344-010	IC,STR-F6656		C121	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-020-903-010	IC,NJM7805FA		C122	87-010-260-080		CAP, ELECT 47-25V
	87-A20-389-010	IC,NJM7809FA		C123	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-027-666-010	IC,TC4052BP		C124	87-010-401-080		CAP, ELECT 1-50V
	87-A21-261-010	IC,MSP3417D		C125	87-018-134-080		CAPACITOR,TC-U 0.01-16
				C126	87-010-544-080		CAP, ELECT 0.1-50V
TRANSISTOR				C127	87-018-119-080		CAP, CER 100P-50V
	87-A30-066-080	TR,2SA1175FE		C128	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A30-090-080	FET,2SK2541		C129	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A30-091-080	FET,2SJ460		C130	87-010-405-080		CAP, ELECT 10-50V
	89-337-794-580	TR,2SC3779 D/E		C131	87-010-405-080		CAP, ELECT 10-50V
	87-A30-065-080	TR,2SC2785FE		C132	87-010-260-080		CAP, ELECT 47-25V
	89-109-504-080	TR,2SA950Y		C137	87-010-384-080		CAP, E 100-25 SME
	87-026-218-080	TR,DTC144ES (0.2W)		C301	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-121-080	TR,DTC 323 TS		C302	87-018-132-080		CAP, CER 2200P-16V
	87-A30-005-010	TR,2SC2688M/L		C303	87-018-148-080		CAP,TC-U 12P-50 CH
	87-A30-095-010	TR,2SD2333LS		C307	87-018-134-080		CAPACITOR,TC-U 0.01-16
	89-334-674-580	TR,2SC3467 D/E		C308	87-010-385-080		CAP, ELECT 220-25 M
	87-A30-041-110	TR,SE115N		C309	87-018-147-080		CAP,TC-U 10P-50 CH
	89-110-155-080	TR,2SA1015GR		C310	87-018-147-080		CAP,TC-U 10P-50 CH
	89-324-122-080	C-TR,2SC2412KR		C311	87-018-147-080		CAP,TC-U 10P-50 CH
DIODE				C312	87-010-404-080		CAP, ELECT 4.7-50V
	87-070-345-080	DIODE,IN4148		C313	87-018-119-080		CAP, CER 100P-50V
	87-A40-347-080	ZENER,MTZJ2.2B		C314	87-010-401-080		CAP, ELECT 1-50V
	87-070-444-080	ZENER,HZS33-1		C315	87-018-196-080		CAP, CER 1500P-16V
	87-A40-235-080	ZENER,MTZJ9.1C		C316	87-010-400-080		CAP, ELECT 0.47-50V
	87-A40-350-080	ZENER,MTZJ 4.7C		C317	87-010-381-080		CAP, ELECT 330-16 M
	87-070-092-080	DIODE,S5566B		C318	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A40-286-080	DIODE,RGP10JE-5025		C319	87-010-400-080		CAP, ELECT 0.47-50V
	87-A40-794-080	DIODE,EGP20G		C320	87-010-384-080		CAP, ELECT 100-25V
	87-017-654-060	DIODE,GBU6J		C321	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A40-509-080	ZENER,MTZJ5.8C		C323	87-018-209-080		CAP, CER 0.1-50V
	87-A40-450-090	DIODE,RU 1P		C324	87-018-209-080		CAP, CER 0.1-50V
	87-A40-354-090	DIODE,UF3GL-6251		C328	87-010-400-080		CAP, ELECT 0.47-50V
	87-A40-611-080	ZENER,MTZJ3.9B		C330	87-018-134-080		CAPACITOR,TC-U 0.01-16
				C333	87-018-134-080		CAPACITOR,TC-U 0.01-16
MAIN C.B				C334	87-010-263-080		CAP, ELECT 100-10V
C1	87-018-151-080	CAP, TC U 20P-50V		C335	87-010-401-080		CAP, ELECT 1-50V
C2	87-A11-073-080	CAP, TC U 22P-50V		C336	87-018-134-080		CAPACITOR,TC-U 0.01-16
C3	87-010-405-080	CAP, ELECT 10-50V		C337	87-010-401-080		CAP, ELECT 1-50V
C4	87-018-134-080	CAPACITOR,TC-U 0.01-16		C338	87-010-401-080		CAP, ELECT 1-50V
C5	87-010-263-080	CAP, ELECT 100-10 M		C339	87-010-263-080		CAP, ELECT 100-10V
C6	87-018-119-080	CAP, CER 100P-50V		C340	87-018-134-080		CAPACITOR,TC-U 0.01-16
C7	87-010-405-080	CAP, ELECT 10-50V		C341	87-018-134-080		CAPACITOR,TC-U 0.01-16
C8	87-010-405-080	CAP, ELECT 10-50V		C344	87-010-263-080		CAP, ELECT 100-10V
C9	87-018-134-080	CAPACITOR,TC-U 0.01-16		C501	87-018-195-080		CAP, CER 1200P-16V
C10	87-018-119-080	CAP, CER 100P-50V		C502	87-018-115-080		CAP, CER 47P-50V
C11	87-018-119-080	CAP, CER 100P-50V		C503	87-010-247-080		CAP, ELECT 100-50V
C13	87-010-405-080	CAP, ELECT 10-50V		C509	87-010-405-080		CAP, ELECT 10-50V
C14	87-018-129-080	CAP,TC-U 680P-50 K B		C511	88-708-980-810		CAP,M 0.056-100 J AMZV
C15	87-018-149-080	CAP,TC-U 15P-50 CH		C512	87-A10-011-090		CAP,E 2200-25 SMG
C16	87-018-149-080	CAP,TC-U 15P-50 CH		C513	87-018-127-080		CAP, CER 470P-50V
				C601	87-A10-406-010		CAP,CER 270P-2K K BN DE
				C603	87-A12-023-080		CAP,E 10-250 M SME
				C606	87-016-515-080		CAP,CER 1000P-1K B
				C607	87-010-397-090		CAP,E 1000-35 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C609	87-010-386-080		CAP,E330-25 SME	CNA903	8Z-JB9-661-010		CONN ASSY,10P MAIN-AUDIO
C610	87-016-217-080		CAP,E 4.7-160	D9	87-A40-422-010		LED,SLP-581D-51 Y-G/R
C611	87-A10-043-010		CAP,M/P 0.56-200 J PM	D801	87-A90-965-010		VRIS,TNR15G471K
C613	87-A10-625-090		CAP,M/P 8200P-1.25KJ	△ F801	87-035-458-010		FUSE,4A 250V T W/C
C614	87-012-396-090		CAP,CER 820P-2K KBN DE	FB1	87-003-320-080		F-BEAD,FBR07HA121NB
△ C616	87-018-132-080		CAP, CER 2200P-16V	FB501	87-003-320-080		F-BEAD,FBR07HA121NB
△ C617	87-010-976-080		CAP,CER 1000P-500 B	FB601	87-003-320-080		F-BEAD,FBR07HA121NB
△ C618	87-010-974-080		CAP,CER 220P-500 B	FB801	87-003-320-080		F-BEAD,FBR07HA121NB
△ C801	87-A10-688-090		CAP,M/P 0.22-275 K (B81133)	FB802	87-003-320-080		F-BEAD,FBR07HA121NB
△ C802	87-A10-688-090		CAP,M/P 0.22-275 K (B81133)	FB805	87-003-320-080		F-BEAD,FBR07HA121NB
△ C805	87-012-370-010		CAP,CER 3300P-250NS	FB806	87-003-320-080		F-BEAD,FBR07HA121NB
C807	87-A10-646-090		CAP,E 220-400 SMH (25.4*40)	△ FC801	87-033-213-080		CLAMP, FUSE PFC5000
C808	87-A10-684-010		CAP,CER 680P-2K K BN DE	△ FC802	87-033-213-080		CLAMP, FUSE PFC5000
C809	87-018-131-080		CAP, CER 1000P-50V	FR601	87-A00-063-060		RES, FUSE 2.2-1/2W J
C810	87-010-384-080		CAP, ELECT 100-25V	FR602	87-A00-419-090		RES, FUSE 1-2W J ERQ2Z
C811	87-018-127-080		CAP, CER 470P-50V	FR603	87-029-150-090		RES, FUSE 3.9-2W J
C812	87-018-129-080		CAP, CER 680P-50V	FR604	87-A00-486-090		RES, FUSE 1.5-2W J
C813	87-A10-626-090		CAP,M/P 0.01-1250 J	FR606	87-A00-049-060		RES, FUSE 2.2K-1/2W J
C815	87-A11-779-090		CAP,M/P 1000P-1.6K J ECWH(VB)	FR803	87-A00-672-090		RES, M/F 68-3W J
C816	87-A10-867-090		CAP,CER 2200P-2K K R	HL9	84-LB3-216-010		HLDR,LED
C817	87-A10-731-090		CAP,E 220-160 M KMF	J901	87-A60-324-110		JACK,PIN 6P Y-W-R W/SW
C818	87-016-221-090		CAP,E 100-160 M TWSS	J902	87-A61-021-010		JACK,PIN 3P W/SW YKC21-5734
C822	87-A10-832-080		CAP,CER 1000P-1K	J903	87-A60-858-010		JACK, 3.5 BLK ST 2 SW
C823	87-010-398-090		CAP,E 2200-35V	JW807	87-018-134-080		CAP,TC U 0.01-16 N Y
C824	87-A12-082-090		CAP,E 1000-35 SMG	L1	87-003-147-080		COIL, 22UH
C826	87-010-235-080		CAP,E 470-16 SME	L2	87-003-152-080		COIL, 100UH
C827	87-010-405-080		CAP, ELECT 10-50V	L101	87-005-444-080		COIL 100UH,K
C828	87-010-405-080		CAP, ELECT 10-50V	L102	87-003-152-080		COIL, 100UH
C829	87-A10-469-080		CAP,CER 2200P-500 K B DD10	L104	87-003-098-080		COIL,2.2UH K LAL02
C830	87-010-405-080		CAP, ELECT 10-50V	L108	87-003-102-080		COIL,10UH J LAL02
C831	87-010-405-080		CAP, ELECT 10-50V	L109	87-003-282-080		COIL,12UH J LAL02
C832	87-010-405-080		CAP, ELECT 10-50V	L110	87-003-146-080		COIL,15UH J LAL02
C833	87-010-405-080		CAP, ELECT 10-50V	L111	87-003-282-080		COIL,12UH J LAL02
C834	87-010-382-080		CAP, E 22-25 SME	L112	87-003-149-080		COIL,47UH
C835	87-010-384-080		CAP, E 100-25 SME	L113	87-003-098-080		COIL,2.2UH K LAL02
C901	87-010-405-080		CAP, ELECT 10-50V	L114	87-A50-530-010		COIL,VCO38.0MHZ
C902	87-010-401-080		CAP, ELECT 1-50V	L301	87-005-444-080		COIL 100UH,K
C903	87-010-401-080		CAP, ELECT 1-50V	L302	87-005-474-080		COIL,12UH J FLR50
C904	87-010-221-080		CAP, ELECT 470-10V	L303	87-005-444-080		COIL 100UH,K
C905	87-010-405-080		CAP, ELECT 10-50V	L601	87-A50-040-010		COIL,2.2MH
C906	87-010-405-080		CAP, ELECT 10-50V	L602	88-JBJ-625-010		COIL,HLC-ELH5L4120N
C907	87-010-405-080		CAP, ELECT 10-50V	L801	87-A50-170-010		COIL,390UH RCH106
C908	87-010-401-080		CAP, ELECT 1-50V	△ LF801	87-JB8-651-010		FLTR,LINE SS24H-K15070
C909	87-010-401-080		CAP, ELECT 1-50V	△ PR801	87-A90-090-080		PROTECTOR,1.5A 491SERIES 60V
C910	87-010-401-080		CAP, ELECT 1-50V	△ PR803	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
C911	87-010-401-080		CAP, ELECT 1-50V	△ PR804	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
C912	87-010-260-080		CAP, ELECT 47-25 SME	△ PS801	87-A91-407-010		P-COUPLER,ON3171-R
C913	87-018-134-080		CAPACITOR,TC-U 0.01-16	△ PS802	87-A91-407-010		P-COUPLER,ON3171-R
C914	87-018-134-080		CAPACITOR,TC-U 0.01-16	△ PT801	8Z-JBA-621-010		PT,SW ZJB-KE-7 M
C915	87-018-133-080		CAPACITOR,TC-U 4700P-16	△ R101	87-A00-164-090		RES,M/F 12K-2W J RSF(S)
C916	87-018-133-080		CAPACITOR,TC-U 4700P-16	R123	87-010-260-080		CAP,E 47-25 M
CF201	87-A90-224-080		FLTR,TPS6.0MB	R317	87-A00-308-090		RES,M/F 47-3W J RSF
CF202	87-008-578-080		FLTR,TPS6.5MB2	R511	87-025-119-090		RES,M/F 560-1W J
CF203	84-LB3-626-080		FLTR,TPS4.5MB2	R612	87-A00-225-090		RES,M/F 2.2K-5W J
CF204	87-008-577-080		FLTR,TPS5.5MB2	R619	87-A00-200-090		RES,M/F 100-2W J
CF205	87-008-574-080		FLTR,CER SFSH4.5MCB	R802	87-A00-552-010		RES,CEM 1.0-10W J MPC722
CN1	87-099-407-010		CONN,7P EH V WHT	R803	87-A00-552-010		RES,CEM 1.0-10W J MPC722
CN101	87-A60-734-010		CONN,8P JL-BT	R804	87-A00-543-080		RES,SD 8.2M-1W J RCR60
CN102	87-A60-732-010		CONN,6P JL-BT	R807	87-A00-639-090		RES,CEM 0.15-5W K BPR
CN601	87-099-675-010		CONN,5P V V	R808	87-A00-573-090		RES,CEM 0.33-5W K BPR
△ CN602	87-A60-485-010		CONN,2P V LV GRA	R816	87-A00-170-090		RES,M/F 82K-3W J RSF(S)
△ CN801	87-099-674-010		CONN,2P VA V	R817	87-A00-223-090		RES,M/F 47K-2W J RSF(S)
△ CN802	82-481-649-010		CONN, 2P V VT-50P	R827	87-A00-673-090		RES,M/F 82K-5W J RSS5L30
CN901	87-049-469-010		CONN,4P V	R830	87-A00-077-090		RES,M/F 8.2-3W J
CNA301	84-LB2-631-010		CONN ASSY,5P TN-4	R936	87-A00-070-090		RES,M/F 220-1W J
CNA801	8Z-JB9-663-010		CONN ASSY,8P V AU PW 200	R937	87-A00-070-090		RES,M/F 220-1W J
CNA802	8Z-JB4-658-010		CONN ASSY,5P MAIN-NK 20'/21'	S1	87-A90-712-080		SW,TACT EVQ11L07K
CNA900	8Z-JBX-602-010		CONN ASSY,4P SP 205-0.5	S2	87-A90-712-080		SW,TACT EVQ11L07K
CNA901	8Z-JB9-662-010		CONN ASSY,6P V AU L/R 300	S3	87-A90-712-080		SW,TACT EVQ11L07K
CNA902	8Z-JB4-660-010		CONN ASSY,5P 401-481 AUDIO	S4	87-A90-712-080		SW,TACT EVQ11L07K

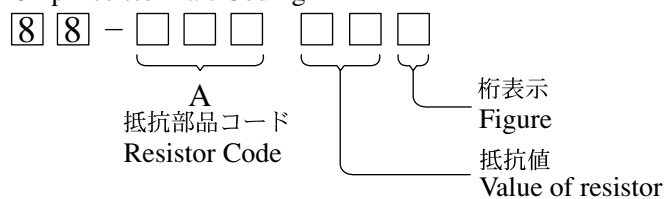
REF.NO.	PART NO.	KANRI NO.	DESCRIPTION	REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
S5	87-A90-712-080		SW,TACT EVQ11L07K	R402	87-025-424-080		RES,M/F 10K 1/6W F
S6	87-A90-712-080		SW,TACT EVQ11L07K	R404	87-025-380-080		RES,M/F 15K-1/6W F
S501	87-A90-567-010		SW,LVR 4-1-3 EVQRAAL10	R405	87-025-381-080		RES,M/F 18K-1/6W F
△ S801	87-A91-410-010		SW,AC PUSH 1-1-1 ESB92SH1B				
SWF201	87-A91-515-010		FLTR,SAW TSB5388P				
				NK C.B			
△ SWF202	87-A91-556-010		FLTR,SAW TSF6364U	△ C551	87-010-976-080		CAP,CER 1000P-500 B
△ T601	8Z-JBR-605-010		FBT, HFT3607(SAN)21-C	△ C552	87-012-397-010		CAP,CER 1000P-2K BN
△ T602	84-LB3-651-010		TRANS,HD MS-101N	C553	87-018-127-080		CAP,TC-U 470P-50
△ THP801	87-A90-759-010		POS-THMS,PTH451C272BF300N270	C554	87-018-127-080		CAP,TC-U 470P-50
TU101	87-A91-495-010		TU UNIT, ENV59D58G3-38.0MHZ	C555	87-018-128-080		CAP,TC-U 560P-50 B
X1	87-030-300-080		VIB,XTAL 8.00MHZ	C556	87-010-405-080		CAP, ELECT 10-50V
X301	87-A70-054-080		VIB,XTAL 4.43MHZ AQC-1018	C557	87-010-405-080		CAP, ELECT 10-50V
				CN551	87-009-195-010		CONN,5P B5BEH
AUDIO C.B				CN552	87-049-590-010		CONN,5P 8283 V WHT
				CN553	87-A61-112-080		CONN,1P V BLU TP00704
C401	87-010-402-080		CAP, ELECT 2.2-50V				
C402	87-010-260-080		CAP, ELECT 47-25V	CN554	87-A61-060-080		CONN,1P V RED TP00706
C403	87-018-134-080		CAPACITOR,TC-U 0.01-16	L551	87-005-444-080		COIL 100UH,K
C405	87-010-402-080		CAP, ELECT 2.2-50V	R551	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
C406	87-010-405-080		CAP, ELECT 10-50V	R552	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
				R553	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
C407	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C408	87-010-367-080		CAP,E 4.7-25 BP	SO552	8Z-LB4-670-010		SOCKET,CRT 9P CTV3327 1603
C411	87-010-367-080		CAP,E 4.7-25 BP				
C412	87-010-405-080		CAP, ELECT 10-50V				
C413	87-A11-148-080		CAP,TC U 0.1-50 Z F	KEY C.B			
C414	87-010-405-080		CAP, ELECT 10-50V				
C415	87-010-367-080		CAP,E 4.7-25 BP	JOINT.F C.B			
C418	87-010-367-080		CAP,E 4.7-25 BP				
C419	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C420	87-010-260-080		CAP, ELECT 47-25V	JOINT.R C.B			
C421	87-010-260-080		CAP, ELECT 47-25V				
C422	87-018-134-080		CAPACITOR,TC-U 0.01-16	NICAM C.B			
C426	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C427	87-010-401-080		CAP, ELECT 1-50V	C701	87-010-318-080		C-CAP,S 47P-50 CH
C428	87-018-134-080		CAPACITOR,TC-U 0.01-16	C702	87-010-318-080		C-CAP,S 47P-50 CH
				C703	87-010-145-080		C-CAP,S 1P-50 CH
C429	87-010-263-080		CAP, ELECT 100-10V	C704	87-010-145-080		C-CAP,S 1P-50 CH
C433	87-A11-148-080		CAP,TC U 0.1-50 Z F	C705	87-010-553-080		CAP,E 47-16
C434	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C435	87-010-260-080		CAP, ELECT 47-25V	C706	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-018-119-080		CAP, CER 100P-50V	C707	87-010-197-080		CAP, CHIP 0.01 DM
				C708	87-010-496-080		CAP,E 3.3-50 5L
C437	87-018-119-080		CAP, CER 100P-50V	C709	87-010-197-080		CAP, CHIP 0.01 DM
C438	87-010-367-080		CAP,E 4.7-25 BP	C710	87-010-197-080		CAP, CHIP 0.01 DM
C440	87-A11-147-080		CAP,TC U 0.047-50 Z F				
C442	87-A11-147-080		CAP,TC U 0.047-50 Z F	C714	87-010-555-080		CAP,E 100-10 GAS
C445	87-010-367-080		CAP,E 4.7-25 BP	C715	87-010-197-080		CAP, CHIP 0.01 DM
				C716	87-010-316-080		C-CAP,S 33P-50 CH
C446	87-010-101-080		CAP, ELECT 220-16	C719	87-010-498-080		CAP,E 10-16 GAS
C447	87-A11-148-080		CAP,TC U 0.1-50 Z F	C720	87-012-157-080		C-CAP,S 330P-50 CH
C467	87-010-367-080		CAP,E 4.7-25 BP				
C470	87-010-112-080		CAP, ELECT 100-16V	C723	87-010-498-080		CAP,E 10-16 GAS
C471	87-A11-148-080		CAP,TC U 0.1-50 Z F	C724	87-010-494-080		CAP ELECT GAS 1/50
				C725	87-010-197-080		CAP, CHIP 0.01 DM
C472	87-010-367-080		CAP,E 4.7-25 BP	C726	87-010-197-080		CAP, CHIP 0.01 DM
C475	87-010-379-080		CAP, ELECT 22-16V	C727	87-010-497-080		CAP,E 4.7-35 5L
C476	87-010-400-080		CAP, ELECT 0.47-50V				
C477	87-010-400-080		CAP, ELECT 0.47-50V	C728	87-010-197-080		CAP, CHIP 0.01 DM
C478	87-010-401-080		CAP, ELECT 1-50V	C729	87-010-555-080		CAP,E 100-10 GAS
				C730	87-010-321-080		CHIP CAPACITOR,82P(J)
C479	87-010-247-080		CAP, ELECT 100-50V	C731	87-012-140-080		CAP 470P
C480	87-010-388-080		CAP ELECT 1000-25V SME	C732	87-010-189-080		C-CAP,S 8200P-50 B
C481	87-010-388-080		CAP ELECT 1000-25V SME				
C482	87-010-401-080		CAP, ELECT 1-50V	C733	87-010-183-080		C-CAP,S 2700P-50 B
C483	87-010-247-080		CAP, ELECT 100-50V	C734	87-012-142-080		CAP, S 0.33-16
				C737	87-010-552-080		CAP,E 22-16 GAS
C484	87-A11-148-080		CAP,TC U 0.1-50 Z F	C739	87-012-157-080		C-CAP,S 330P-50 CH
C493	87-010-112-080		CAP, ELECT 100-16V	C740	87-010-318-080		C-CAP,S 47P-50 CH
C498	87-010-402-080		CAP, ELECT 2.2-50 SME				
CN401	87-009-034-010		CONN,6P PH V	C741	87-012-140-080		CAP 470P
CN402	87-009-038-010		CONN,10P V WHT	C742	87-010-189-080		C-CAP,S 8200P-50 B
				C743	87-010-183-080		C-CAP,S 2700P-50 B
CN403	87-099-408-010		CONN,8P EH V WHT	C744	87-012-142-080		CAP, S 0.33-16
CN404	87-009-195-010		CONN,5P B5BEH	C745	87-012-157-080		C-CAP,S 330P-50 CH
FR996	87-A00-084-090		RES,FUSE 1-1W J				
FR997	87-A00-084-090		RES,FUSE 1-1W J	C748	87-012-154-080		C-CAP,S 150P-50 CH
R401	87-025-381-080		RES,M/F 18K-1/6W F	CN701	87-A60-722-010		CONN,8P JL-R

REF.NO.	PART NO.	KANRI NO.	DESCRIPTION
CN702	87-A60-720-010		CONN,6P JL-R
L701	87-005-461-080		COIL,1UH J FLR50
L702	87-005-461-080		COIL,1UH J FLR50
L703	87-005-473-080		COIL,10UH J FLR50
L705	87-005-473-080		COIL,10UH J FLR50
L707	87-005-473-080		COIL,10UH J FLR50
L708	87-005-485-080		COIL,100UH J FLR50
X701	87-A70-199-080		VIB,XTAL 18.432MHZKEY C.B


○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

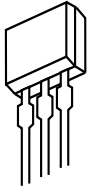
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SA950Y
2SA1015GR



S D G

2SJ460
2SK2541



E C B

2SC3467D/E



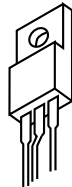
E C B

2SA1175FE
2SC2785FE
DTC144ES



B C E

2SD2333LS



1. SENSE
2. COLLECTOR
3. GROUND

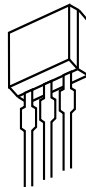
1 2 3

SE115N



E C B

2SC3779D/E



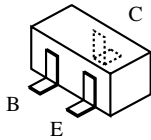
E C B

DTC323TS



E C B

2SC2688M/L



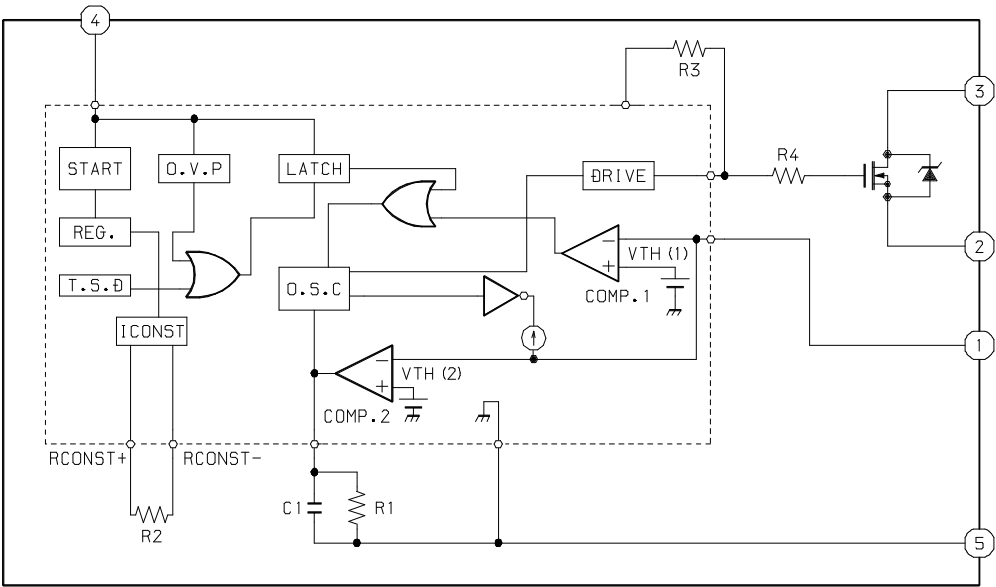
B
E

C

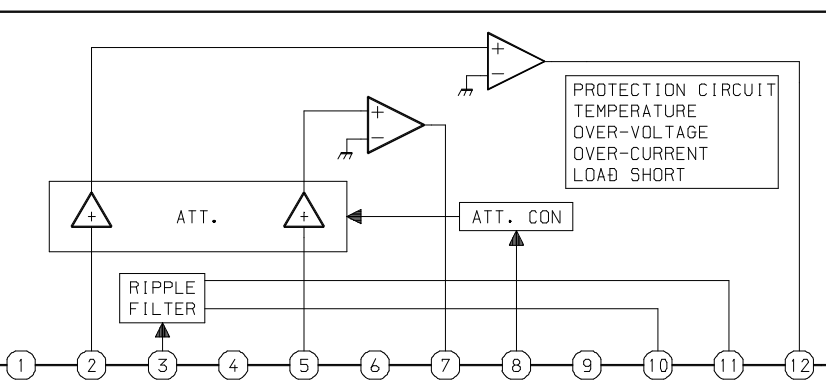
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IC BLOCK DIAGRAM

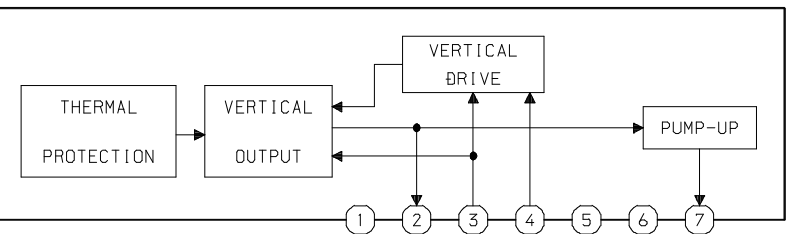
IC, STR-F6656



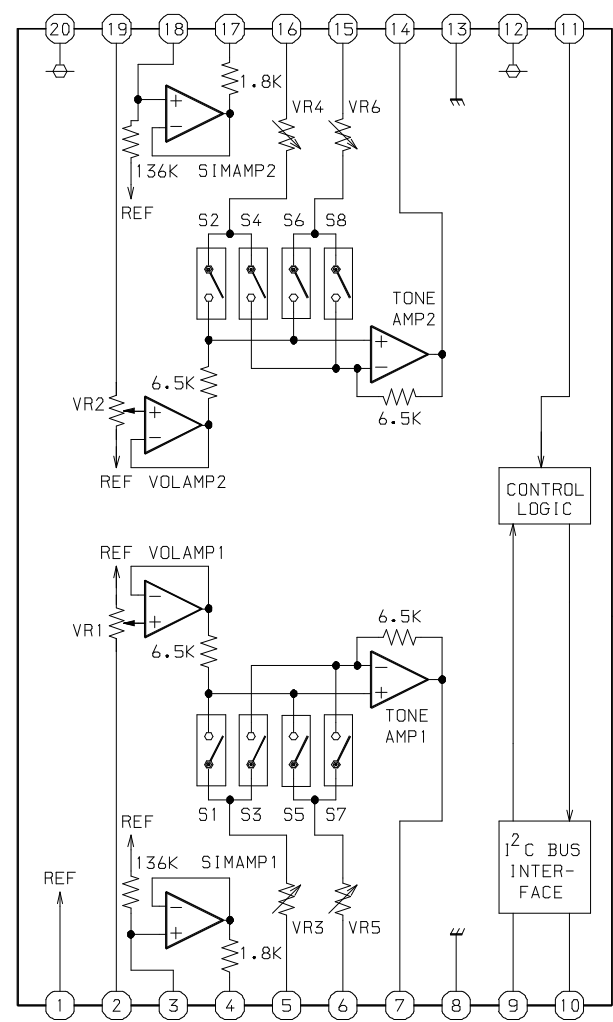
IC, AN5277



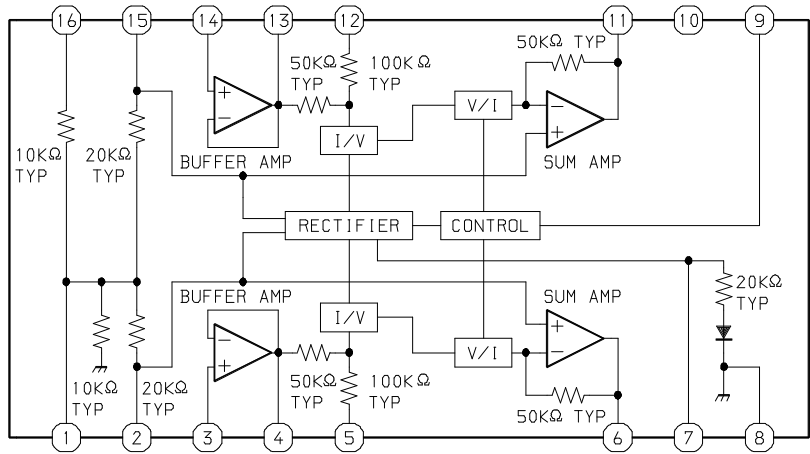
IC, LA7832



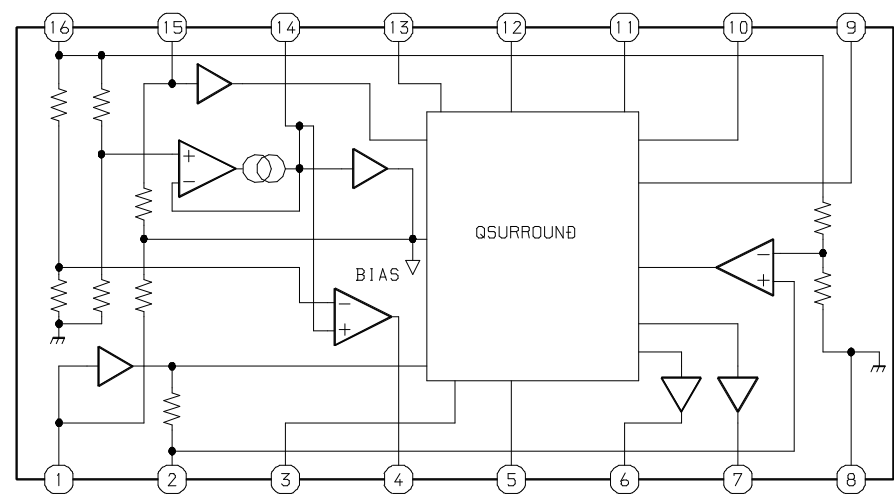
IC, M62420SP



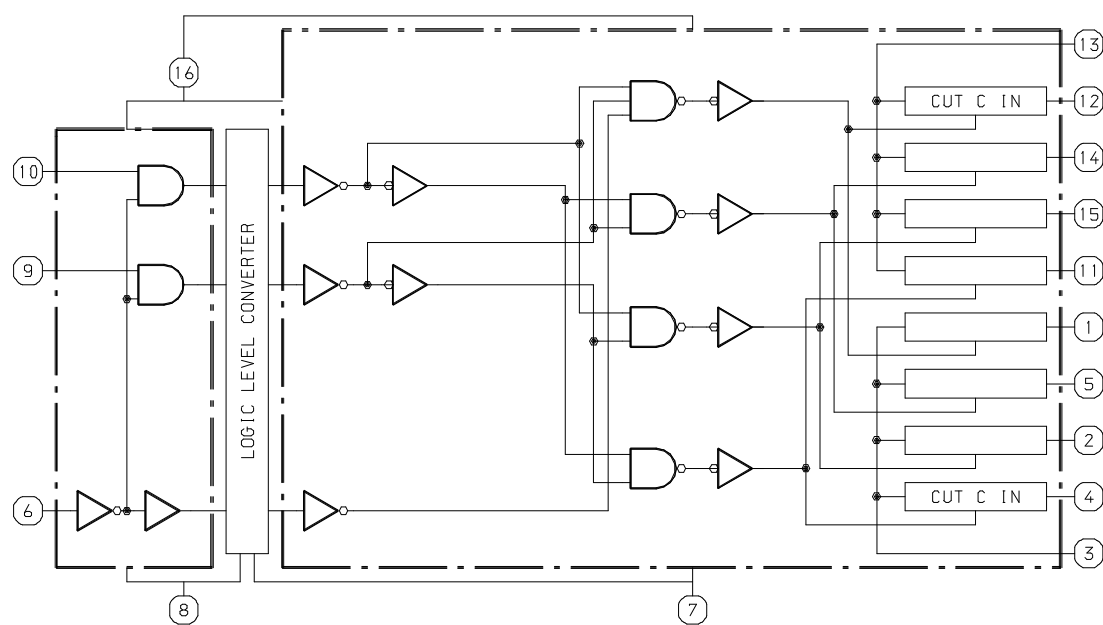
IC, MM1124B



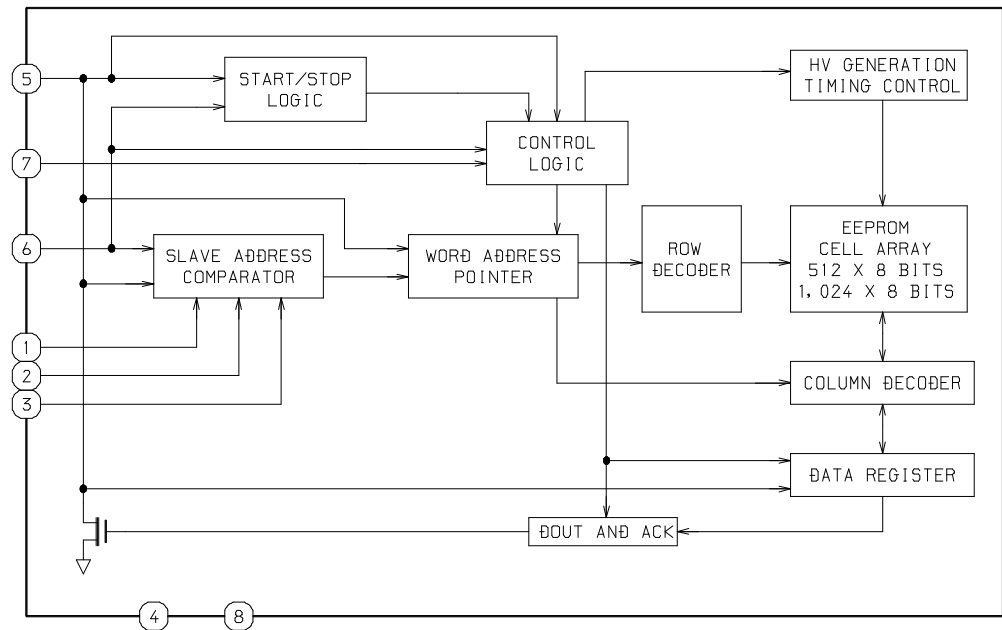
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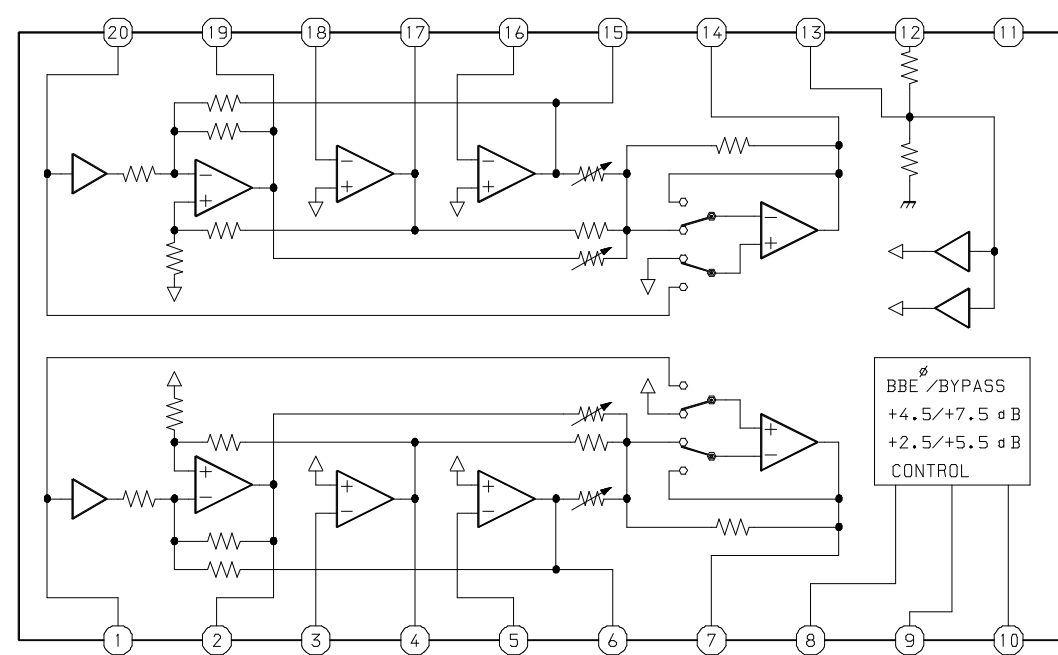
IC, TC4052BP



IC, KS24C0411

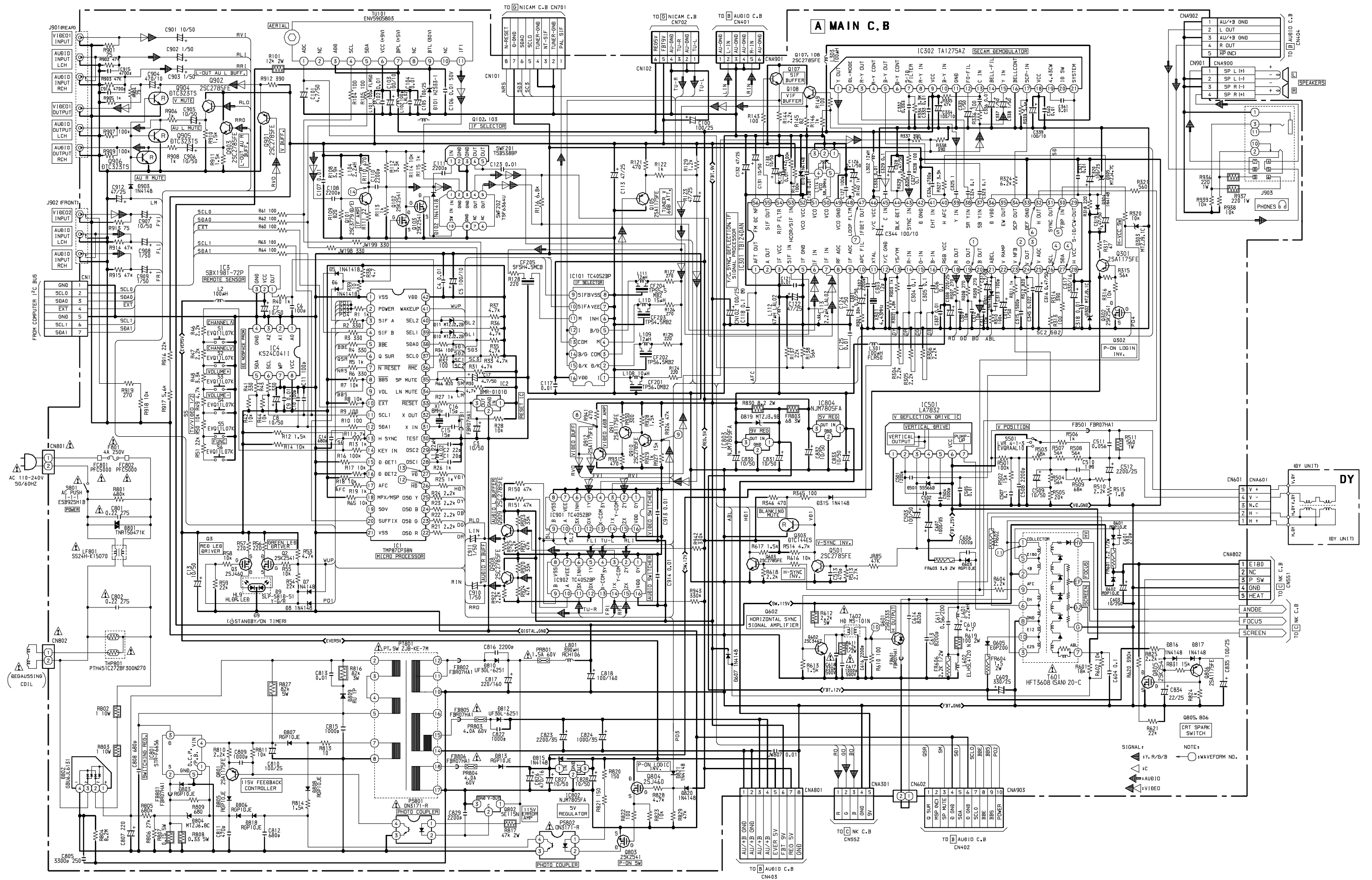


IC, NJM2150

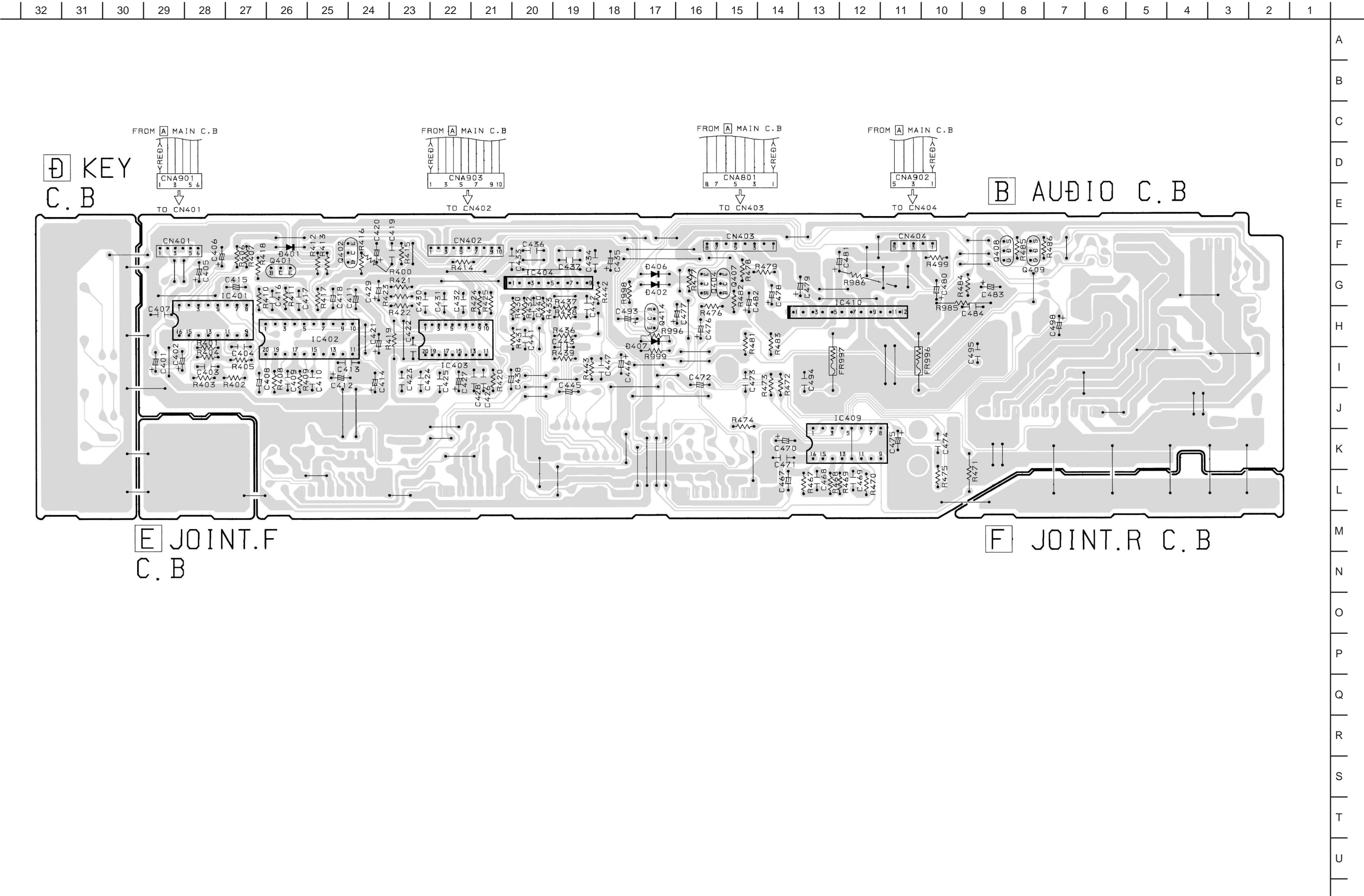




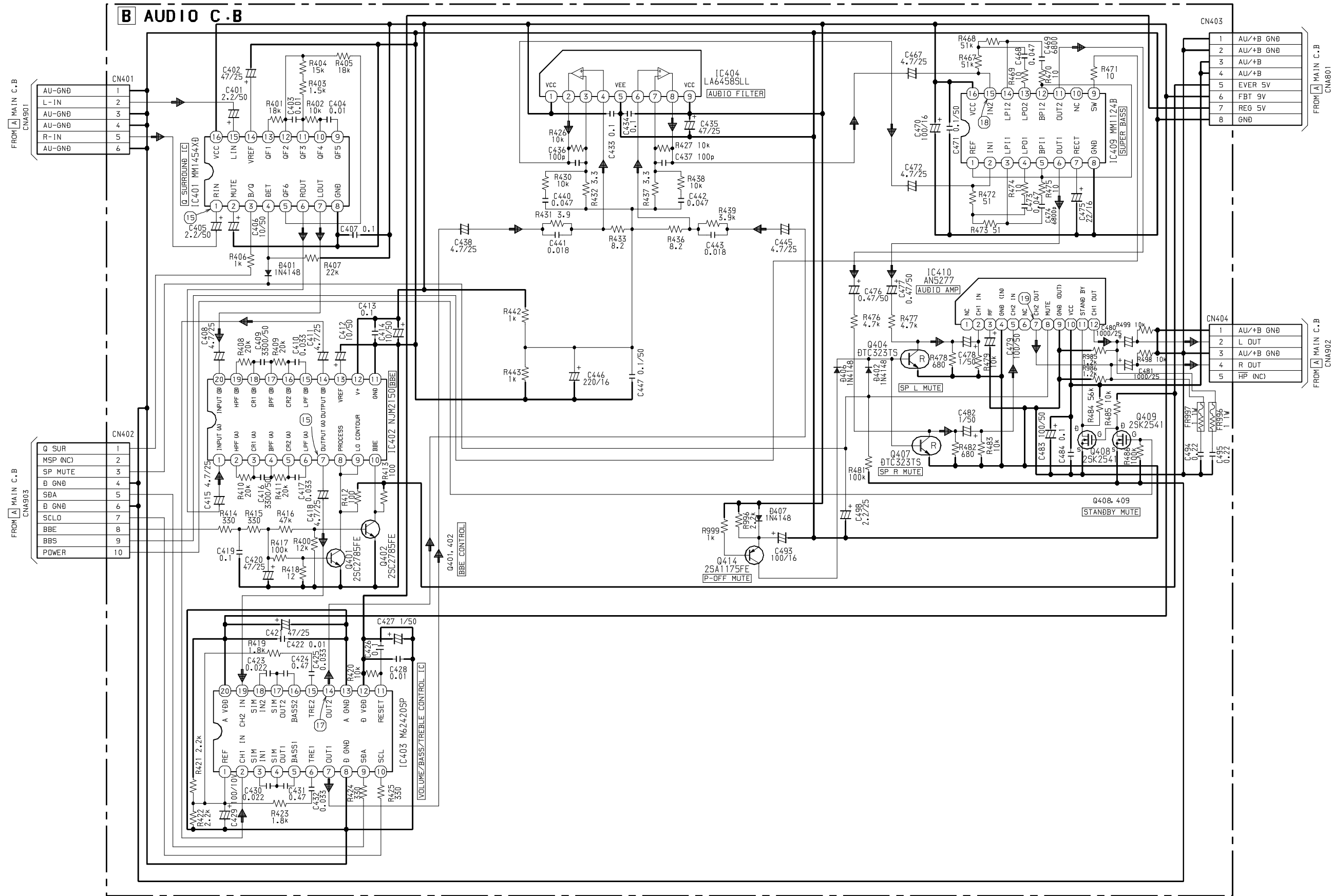
SCHEMATIC DIAGRAM - 1 (MAIN)

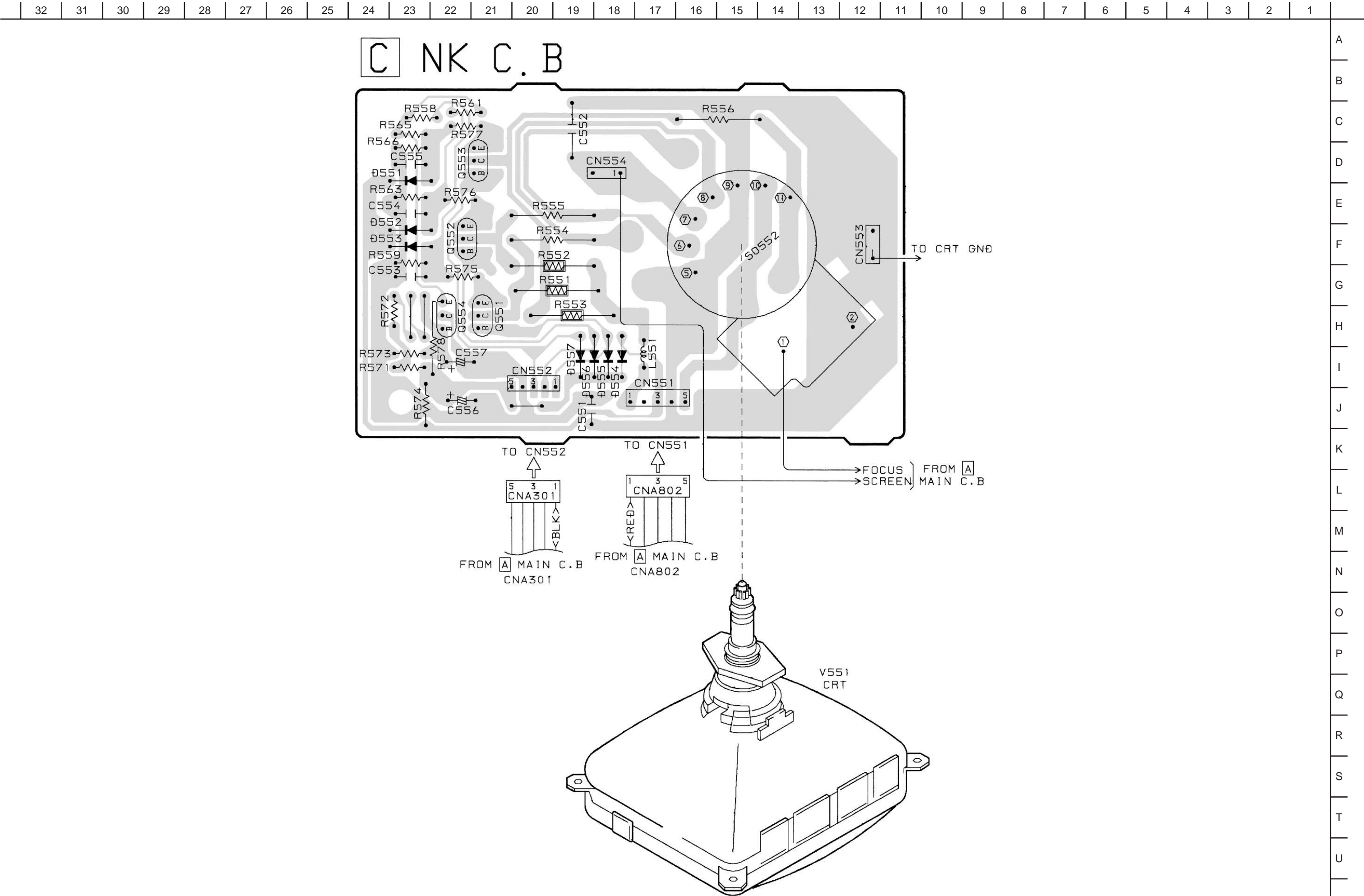


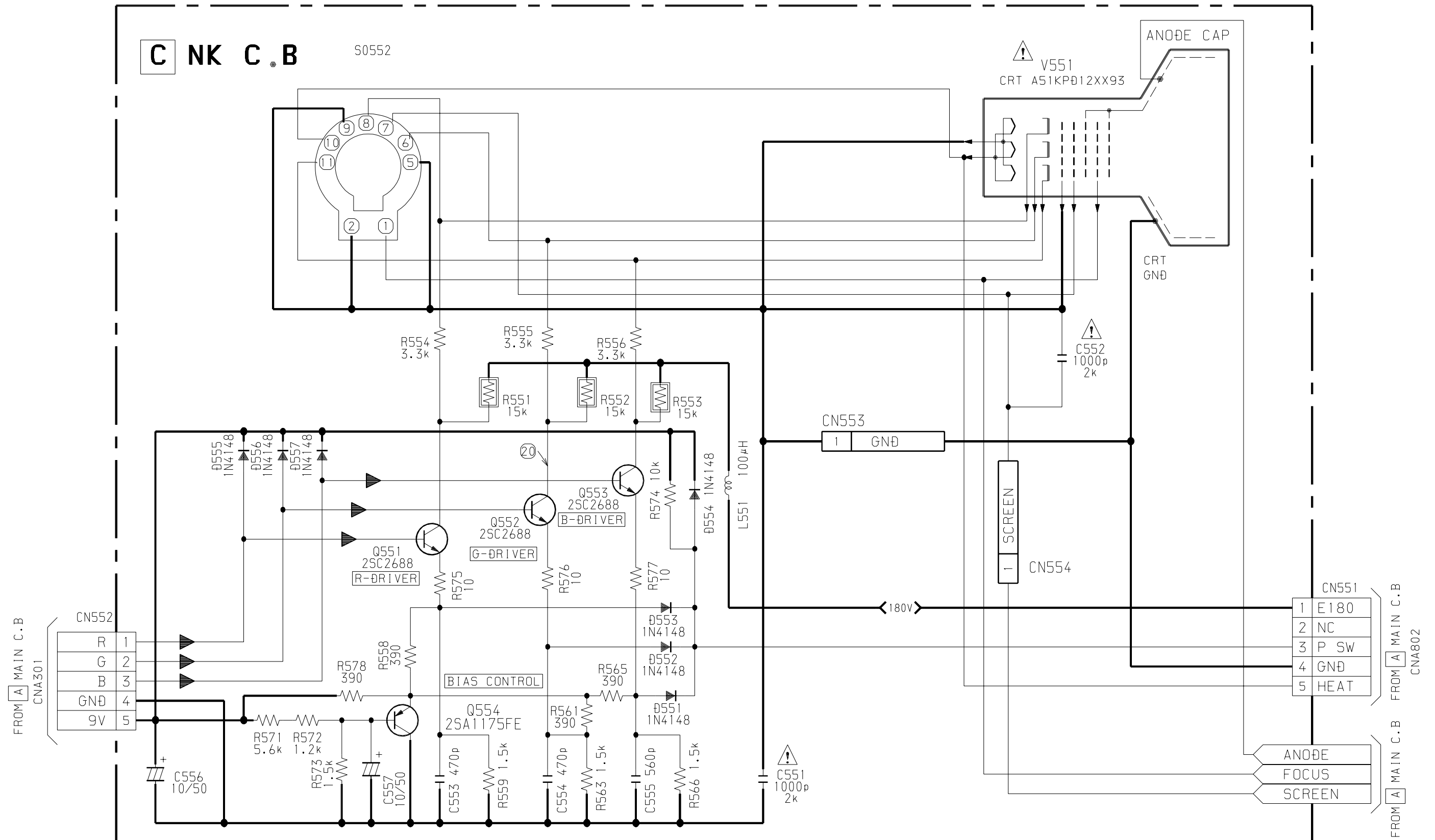
WIRING – 2 (AUDIO)



SCHEMATIC DIAGRAM - 2 (AUDIO)







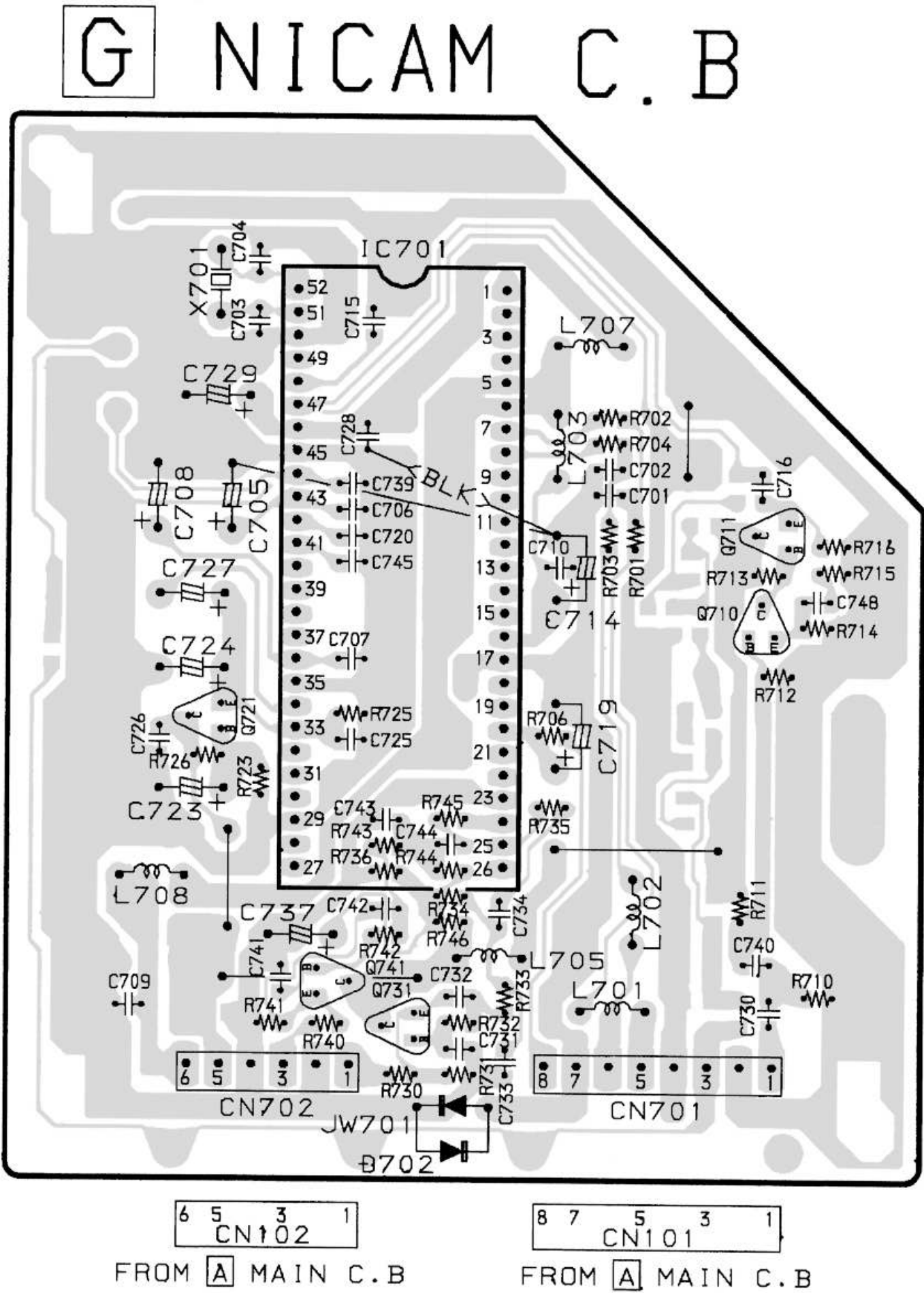
SIGNAL :

◀ : R, G, B OUTPUT

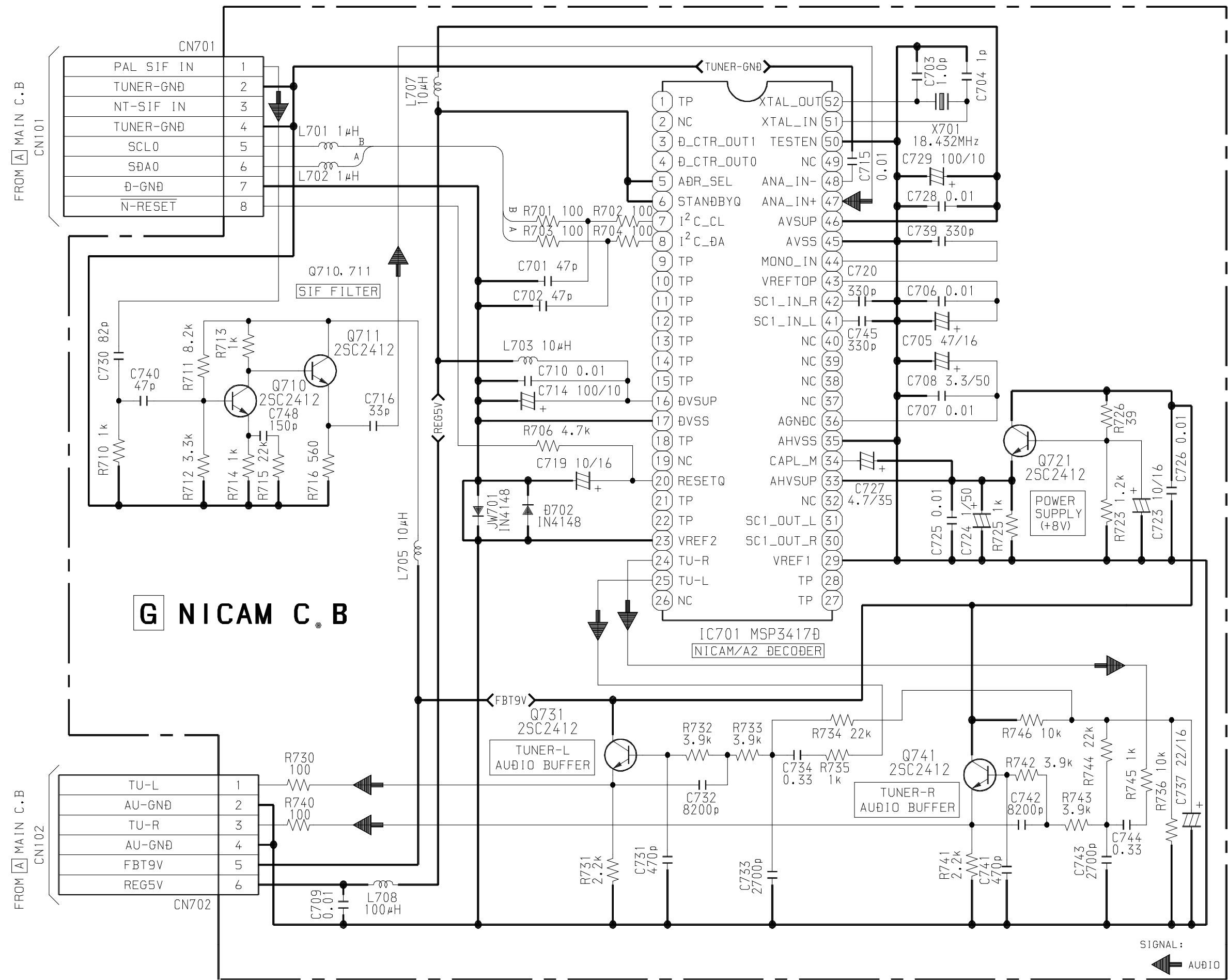
NOTE:

← : WAVEFORM NO.

32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---



SCHEMATIC DIAGRAM - 4 (NICAM)



WAVEFORM

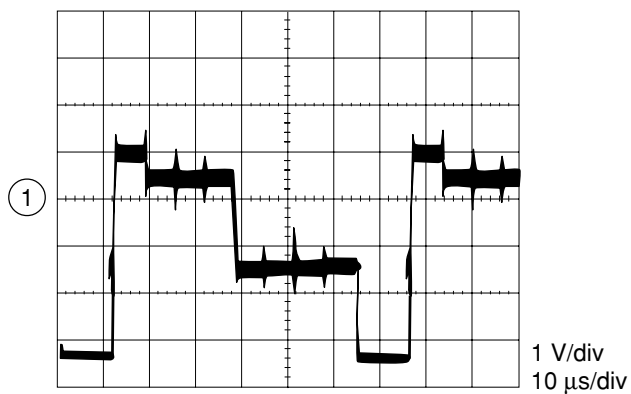
AC : 220V

INPUT : TUNER PAL-COLOR BAR AUDIO 1kHz

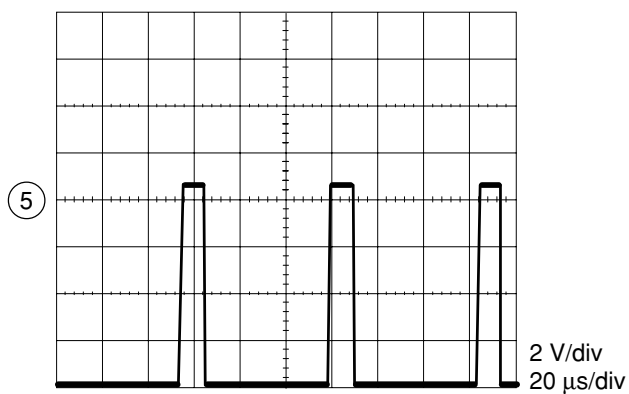
USER CONTROL : ALL RESET

MAIN C.B

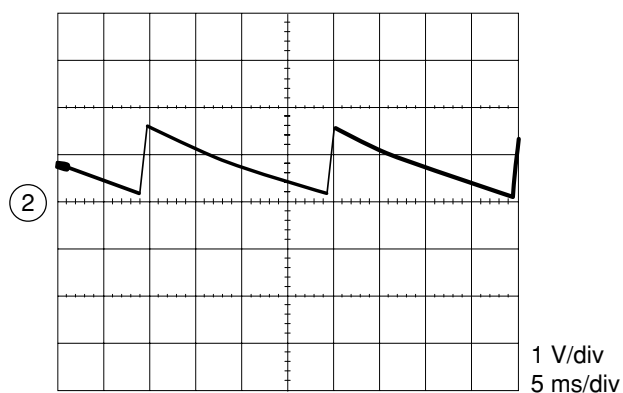
① IC301 PIN 19 (GOUT)



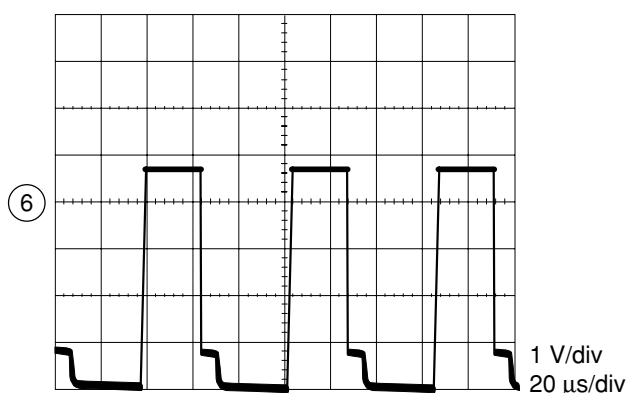
⑤ IC301 PIN 30 (FBP IN)



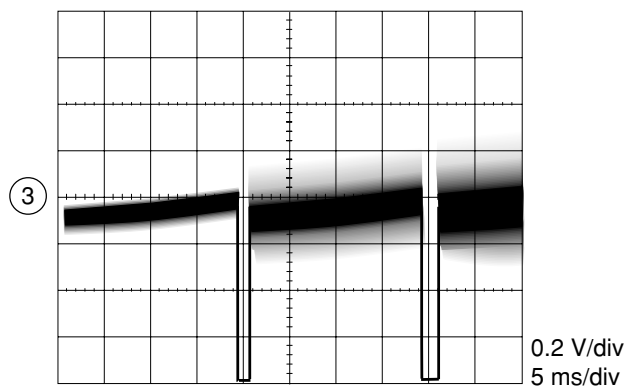
② IC301 PIN 23 (V NFB)



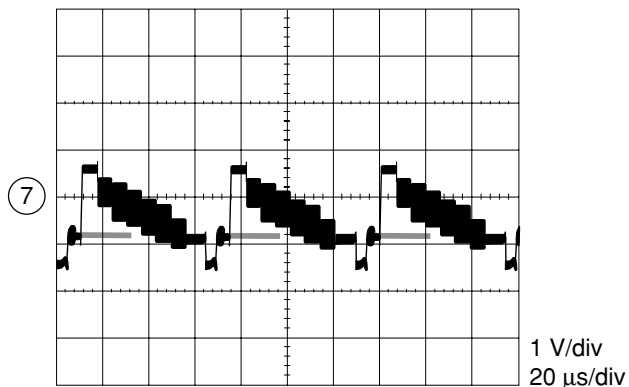
⑥ IC301 PIN 32 (H OUT)



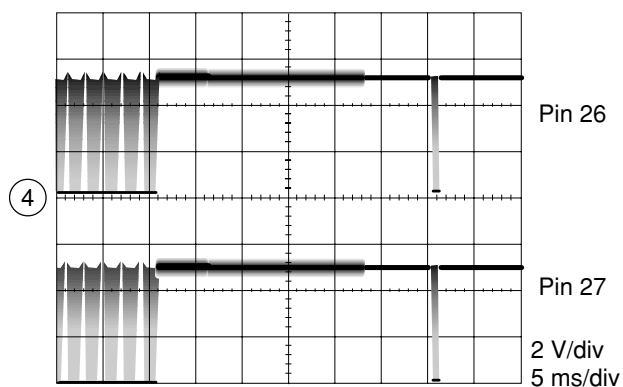
③ IC301 PIN 24 (VOUT)



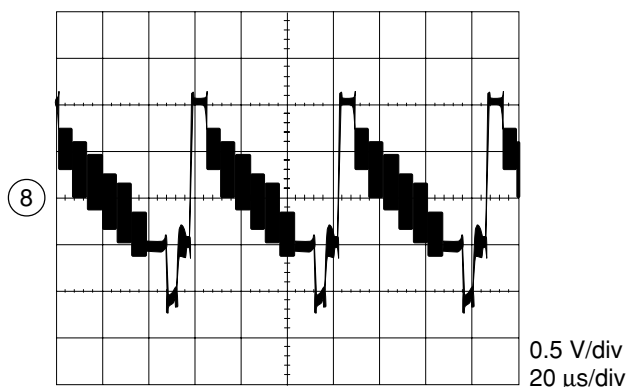
⑦ IC301 PIN 47 (IF DET OUT)



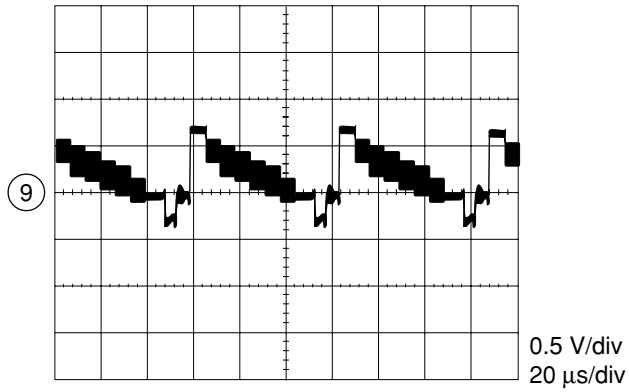
④ IC301 PIN 26/27 (SCL/SDA)



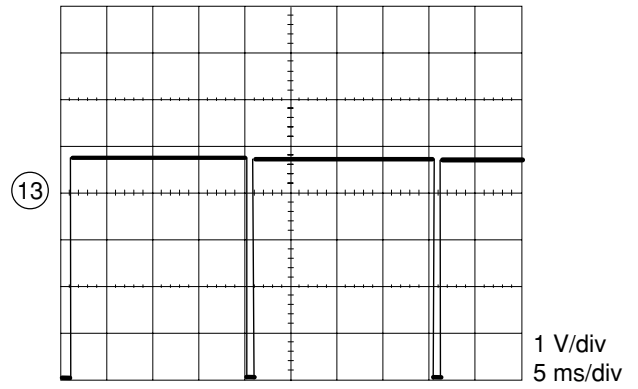
⑧ Q912 EMITTER



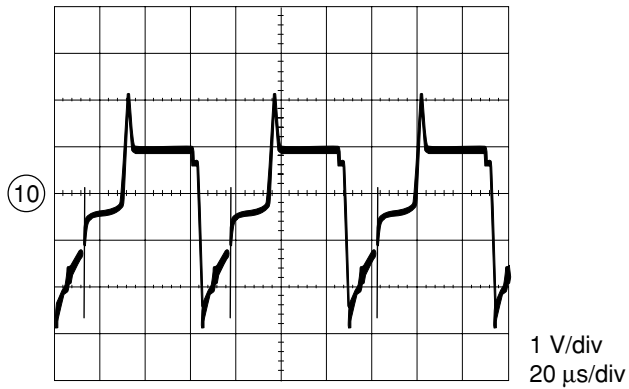
⑨ Q910 BASE



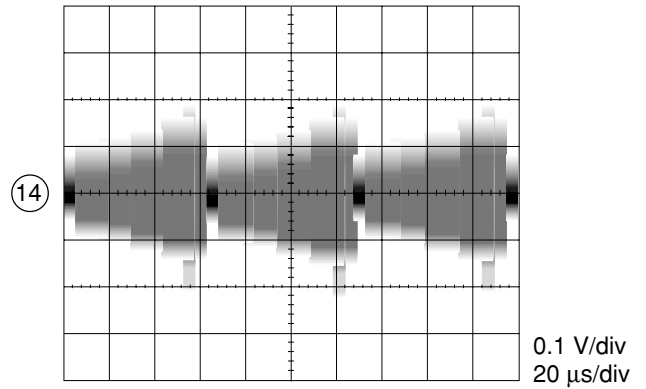
⑬ IC1 PIN27 (\overline{VD})



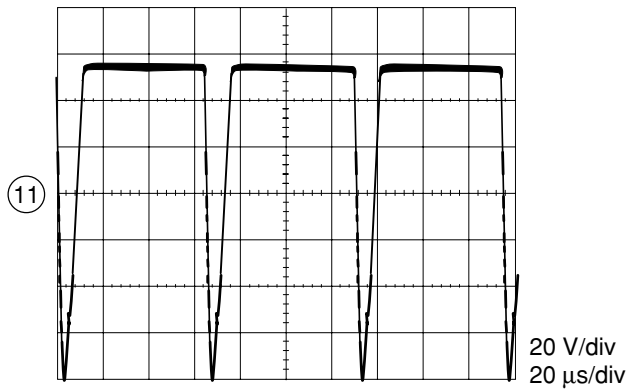
⑩ Q601 BASE



⑭ Q101 COLLECTOR

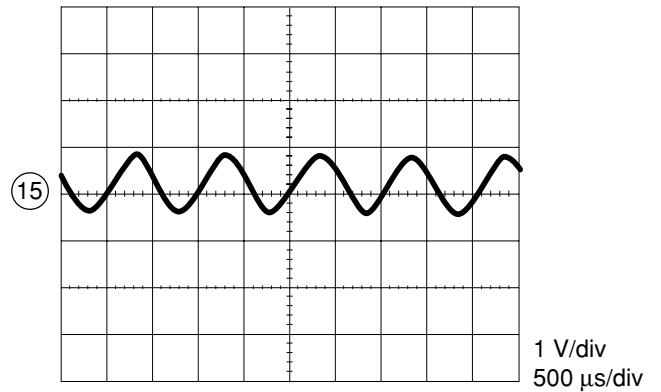


⑪ T601 PIN 1 (COLLECTOR)

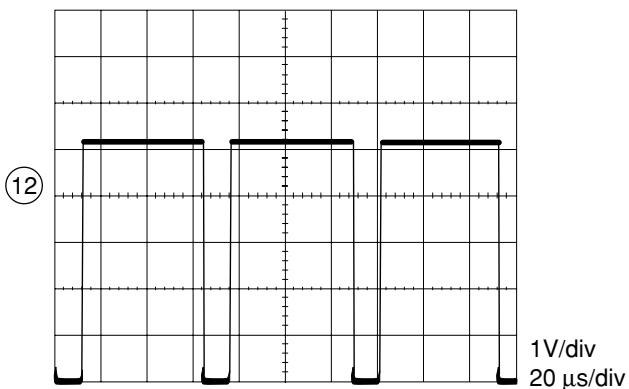


AUDIO C.B

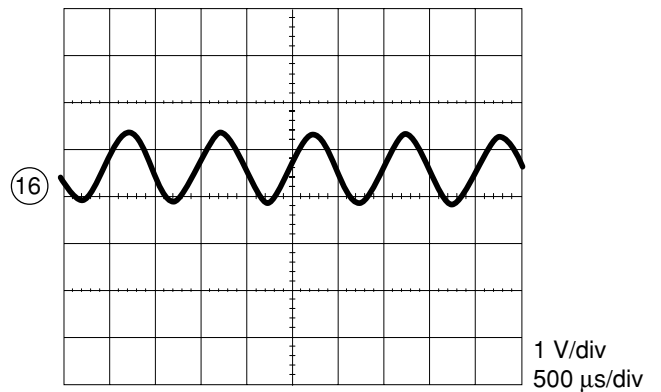
⑮ IC401 PIN 1 (RIN)



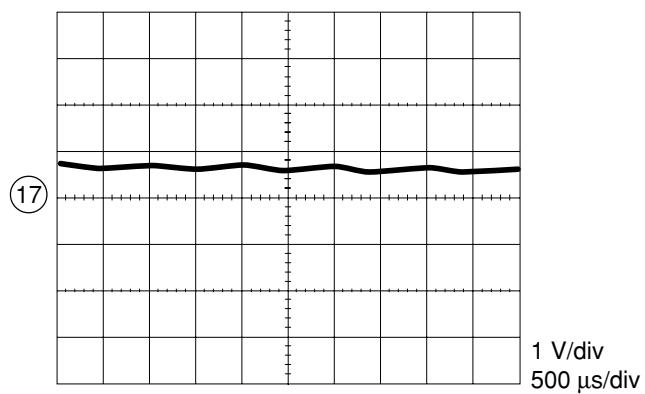
⑫ IC1 PIN 26 (\overline{HD})



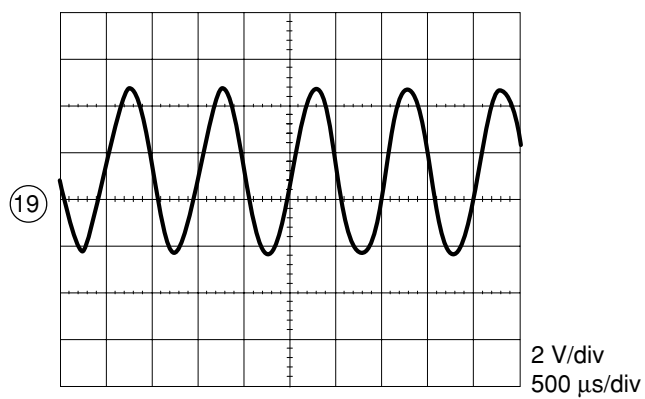
⑯ IC402 PIN 7 (OUTPUT (A))



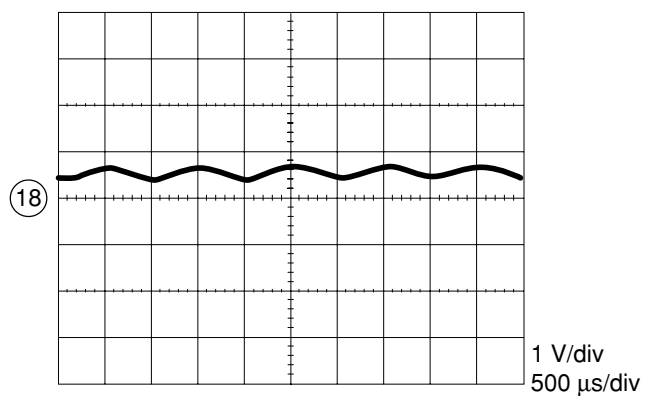
①7 IC403 PIN 14 (OUT2)



①9 IC410 PIN 7 (CH2 OUT)

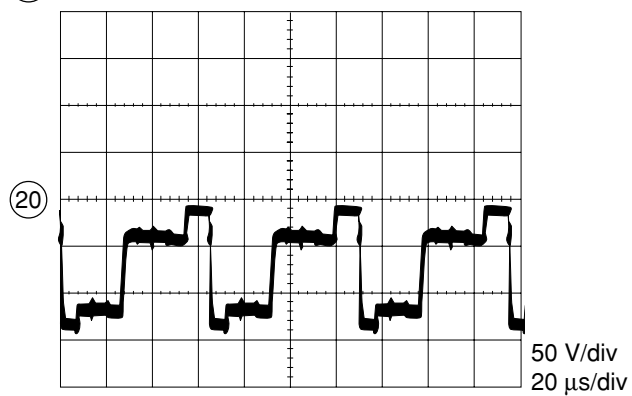


①8 IC409 PIN 15 (IN2)



NK C.B

②0 Q552 COLLECTOR



IC DESCRIPTION

IC, TMP87CP38N

Pin No.	Pin Name	I/O	Description
1	VSS	–	Connected to GND.
2	POWER	O	During standby mode, "H" level is inserted to switch off H deflection & high voltage.
3	SIF A	O	SOUND IF switch A.
4	SIF B	O	SOUND IF switch B.
5	BBE	O	BBE select.
6	Q SUR	O	Q SURROUND switch.
7	$\overline{\text{N RESET}}$	O	NICAM RESET ("L" = reset). (Not used)
8	$\overline{\text{BBS}}$	O	BASS BOOST / S-WOOFER.
9	VOL	–	Not used.
10	$\overline{\text{EXT}}$	I	External bus switch.
11	SCL1	O	I ² C bus CH1 clock.
12	SDA1	I/O	I ² C bus CH1 data.
13	H SYNC	I	Sync signal input pin for detection.
14	KEY IN	I	Input key is detected by monitor.
15	D DET1	I	Power condition 1 (mid = good, low/high = bad).
16	D DET2	I	Power condition 2 (mid = good, low/high = bad).
17	AFC	I	AFT voltage input pin.
18	MPX/MSP	I	MPX detect / MSP key in. (Connected to VDD through a resistor)
19	SGV	O	Test signal output when test mode. (Not used)
20	SUFFIX	I	Feature select (initial) input.
21	VSS	–	Connected to GND.
22	OSD R	O	OSD red output.
23	OSD G	O	OSD green output.
24	OSD B	O	OSD blue output.
25	OSD Y	O	OSD blanking signal output.
26	$\overline{\text{HD}}$	I	OSD horizontal synchronised signal input.
27	$\overline{\text{VD}}$	I	OSD vertical synchronised signal input.
28	OSC1	–	Connected to OSC coil.
29	OSC2	–	Connected to OSC coil.
30	TEST	–	Connected to GND.
31	X IN	I	8 MHz clock input.
32	X OUT	O	8 MHz clock output.
33	$\overline{\text{RESET}}$	I	Use to reset the micon when power up.
34	LN MUTE	O	"H" to mute the line out signal.
35	SP MUTE	O	"H" to mute the audio signal.
36	$\overline{\text{RMC}}$	I	Remote control signal is led to this pin.
37	SCL0	I	I ² C bus CH2 clock.
38	SDA0	I/O	I ² C bus CH2 data.
39	SEL1	O	Input select switch 1.
40	SEL2	O	Input select switch 2.
41	WAKEUP	O	LED (wake up timer).
42	VDD	–	5V supply.

IC, TB1240AN

Pin No.	Pin Name	I/O	Description
1	AFT OUT	O	The terminal for AFT output and self-adjust output.
2	A OUT	O	Audio output pin. (Not used)
3	IF VCC	–	VCC of PIF circuit.
4	SIF IN	I	SIF input pin.
5	IF GND	–	GND of PIF circuit.
6	IF IN	I	IF signal input.
7	IF IN	I	IF signal input.
8	RF AGC	O	RF AGC output.
9	IF AGC	–	The terminal to be connected with an IF AGC filter.
10	APC FIL	–	APC filter of chroma for demodulation.
11	XTAL	I	4.43MHz crystal oscillator.
12	Y/C GND	–	GND of Y/C circuit.
13	YS/YM	I	The terminal for switching of analog RGB mode and fast half tone.
14	R-IN	I	Analog red signals input.
15	G-IN	I	Analog green signals input.
16	B-IN	I	Analog blue signals input.
17	RGB VCC	–	VCC of RGB circuit.
18	R OUT	O	R signals output.
19	G OUT	O	G signals output.
20	B OUT	O	B signals output.
21	ABCL	I	ABL/ACL control.
22	V RAMP	–	Connected with cap to make Vertical RAMP signal.
23	V NFB	I	Input of Vertical sawteeth signal feedback.
24	V OUT	O	Vertical drive signal output.
25	V AGC	–	Vertical AGC cap.
26	SCL	I	I ² C bus clock input.
27	SDA	I/O	I ² C bus data input/output.
28	H VCC	–	VCC of vertical circuit.
29	S-ID/CW OUT	I/O	SECAM ID input and PAL/NTSC ID output.
30	FBP IN	I	FBP input.
31	SYNC OUT	O	Composites sync output.
32	H OUT	O	Horizontal drive signal output.
33	DEF GND	–	GND of deflection circuit.
34	SCP OUT	O	Sand castle pulse (VD+HD+GP) output.
35	EW OUT	O	E-W output. (Not used)
36	D VDD	–	VDD of digital block.
37	SB YIN	I	B-Y signals input.
38	SR YIN	I	R-Y signals input.
39	Y IN	I	Y signal input.
40	H AFC	–	H.AFC filter.
41	EHT IN	I	The terminal for EHT. (Not used)
42	D GND	–	GND of digital block.

Pin No.	Pin Name	I/O	Description
43	SYNC IN	I	Input of the synchronous separation circuit.
44	BLK DET	–	The terminal to be connected with an Black Det filter.
45	C IN	I	Input of chroma signals.
46	Y/C VCC	–	VCC of Y/C circuit.
47	IFDET OUT	O	Composite video signal and SIF signal detected in IF circuit.
48	LOOP FLTR	–	Loop filter for IF PLL.
49	VCO GND	–	GND of VCO and SIF circuit.
50	VCO	–	The terminal connected with a tank coil for IF VCO.
51	VCO	–	The terminal connected with a tank coil for IF VCO.
52	VCO VCC	–	VCC of IF VCO and SIF.
53	HCOR/SIF IN	I	H.curve correction and SIF input.
54	RIP FLTR	–	Connected with cap to stabilize the performance of SIF injection-lock circuit.
55	SIF OUT	O	Output of 2nd SIF signal. (Not used)
56	FM DC NF	I	The terminal for FM DC negative feedback and AGC filter for L-SECAM.

IC, TA1275AZ

Pin No.	Pin Name	I/O	Description
1	Y OUT	O	The output pin for Y signal.
2	DL-MODE	O	The pin for controlling the Y processing mode: to VCC: 5.5MHz trap ; open: 5.5MHz trap + D.L ; to GND: DL. (Not used)
3	R-Y OUT	O	The output pin for demodulated R-Y signal.
4	R-Y CONT	I	The pin for controlling the black offset level. (Not used)
5	B-Y OUT	O	The output pin for demodulated B-Y signal.
6	B-Y CONT	I	The pin for controlling the black offset level. (Not used)
7	S-ID FILTER	I	The pin for connecting the SECAM ident filter capacitor.
8	R-Y IN	I	The input pin for external R-Y signal. (Not used)
9	VCC	–	The VCC pin for Y/C processing block.
10	B-Y IN	I	The input pin for external B-Y signal. (Not used)
11	GND	–	The GND pin.
12	F0-FIL	I	The pin for connecting a capacitor for automatic adjusting circuit.
13	C IN	I	The chroma signal input pin.
14	BELL-FIL	I	The pin for connecting a capacitor for the bell filter fo, 4.286MHz.
15	Y IN	I	The Y signal input pin.
16	BELLCONT	I	The pin for selecting the bell filter fo. fo + 70KHz: open ; fo + 35KHz:20k to GND ; fo: to GND. (Connected to GND).
17	SCP-IN	I	The pin to input the sand castle pulse, SCP.
18	VCC	–	VCC pin for logic block.
19	4.43 CW	I	The pin for input 4.43MHz of carrier wave for self adjustment circuit.
20	ID SW	I	The switch pin for selecting the ID detection mode. H + V: connected to VCC ; Auto search: opened ; H: connected to GND. (Not used.)
21	SYSTEM	I/O	The interface pin to the main processor.

IC, MSP3417D

Pin No.	Pin Name	I/O	Description
1	TP	–	Test pin (not used).
2	NC	–	Not connected.
3	D_CTR_OUT1	O	Digital control output 1 (not used).
4	D_CTR_OUT0	O	Digital control output 0 (not used).
5	ADR_SEL	I	I ² C bus address select.
6	STANDBYQ	I	Standby (low active).
7	I ² C_CL	I/O	I ² C clock.
8	I ² C_DA	I/O	I ² C data.
9 ~ 11	TP	I/O	Test pin (not used).
12	TP	–	Test pin (not used).
13 ~ 15	TP	O	Test pin (not used).
16	DVSUP	–	Digital power supply +5V.
17	DVSS	–	Digital GND.
18, 21, 22	TP	I	Test pin (not used).
19	NC	–	Not connected.
20	RESETQ	I	Power-on-reset.
23	VREF2	–	Reference GND 2 high voltage part.
24	TU-R	O	Loudspeaker out, right.
25	TU-L	O	Loudspeaker out, left.
26	NC	–	Not connected.
27, 28	TP	–	Test pin (not used).
29	VREF1	–	Reference GND 1 high voltage part.
30	SC1_OUT_R	O	Scart output 1, right. (not used)
31	SC1_OUT_L	O	Scart output 1, left. (not used)
32	NC	–	Not connected.
33	AHVSUP	–	Analog power supply 8.0V.
34	CAPL_M	–	Volume capacitor main.
35	AHVSS	–	Analog GND.
36	AGNDC	–	Analog reference voltage high voltage part.
37 ~ 40	NC	–	Not connected.
41	SC1_IN_L	I	Scart input 1 in, left.
42	SC1_IN_R	I	Scart input 1 in, right.
43	VREFTOP	–	Reference voltage IF A/D converter.
44	MONO_IN	I	Mono input.
45	AVSS	–	Analog GND.
46	AVSUP	–	Analog power supply +5V.
47	ANA_IN1+	I	IF input 1.
48	ANA_IN-	I	IF common.
49	NC	–	Not connected.
50	TESTEN	I	Test pin.
51	XTAL_IN	I	Crystal oscillator.
52	XTAL_OUT	O	Crystal oscillator.

VOLTAGE CHART

REF NO.	S	D	G
Q2	0.2	5.1	1.0

REF NO.	S	D	G
Q3	5.1	1.2	4.1

REF NO.	E	C	B
Q101	1.2	0.5	8.9

REF NO.	E	C	B
Q104	1.6	9.0	2.2

REF NO.	E	C	B
Q105	3.6	0.0	2.9

REF NO.	E	C	B
Q106	3.6	9.0	4.2

REF NO.	E	C	B
Q108	2.9	9.0	3.6

REF NO.	S	D	G
Q109	0.0	0.8	0.0

REF NO.	S	D	G
Q110	0.0	0.0	5.1

REF NO.	E	C	B
Q301	11.3	11.2	10.6

REF NO.	S	D	G
Q302	0.0	0.0	4.7

REF NO.	E	C	B
Q303	0.0	0.3	4.5

REF NO.	E	C	B
Q401	0.2	2.3	0.2

REF NO.	E	C	B
Q402	0.2	3.2	0.1

REF NO.	E	C	B
Q404	0.2	0.2	0.3

REF NO.	E	C	B
Q407	0.2	0.2	0.0

REF NO.	S	D	G
Q408	0.0	11.1	0.2

REF NO.	S	D	G
Q409	0.2	0.2	4.8

REF NO.	E	C	B
Q414	8.9	0.0	9.1

REF NO.	E	C	B
Q501	0.0	4.5	0.2

REF NO.	E	C	B
Q551	2.8	139.0	3.0

REF NO.	E	C	B
Q552	2.7	141.1	3.0

REF NO.	E	C	B
Q553	2.6	145.1	2.9

REF NO.	E	C	B
Q554	2.0	0.0	1.3

REF NO.	E	C	B
Q601	0.0	–	*

REF NO.	E	C	B
Q602	0.0	63.2	0.4

REF NO.	E	C	B
Q603	0.0	4.2	0.0

REF NO.	E	C	B
Q801	15.2	0.6	14.7

* Refer to Waveform no. 10

REF NO.	1	2	3
Q802	114.7	92.5	0.0

REF NO.	S	D	G
Q803	0.0	0.1	4.5

REF NO.	S	D	G
Q804	4.5	5.1	4.6

REF NO.	S	D	G
Q805	0.0	8.9	0.0

REF NO.	E	C	B
Q806	4.8	0.0	5.7

REF NO.	E	C	B
Q901	2.5	0.0	1.8

REF NO.	E	C	B
Q902	0.0	9.0	0.9

REF NO.	E	C	B
Q903	0.0	9.0	0.8

REF NO.	E	C	B
Q904	0.0	2.5	0.1

REF NO.	E	C	B
Q905	0.0	0.0	0.1

REF NO.	E	C	B
Q906	0.0	0.0	0.1

REF NO.	E	C	B
Q908	0.9	8.9	1.4

REF NO.	E	C	B
Q909	0.8	8.9	1.4

REF NO.	E	C	B
Q910	1.5	6.8	2.1

REF NO.	E	C	B
Q911	7.4	2.4	6.8

REF NO.	E	C	B
Q912	1.8	9.0	2.4

IC1, TMP87CP38N

PIN NO.	VOLT (V)
1	0.0
2~3	5.1
4	0.0
5	0.0
6	5.1
7~9	0.0
10~12	5.1
13	4.6
14	5.1
15	0.0
16	2.6
17	2.2
18	5.1
19	0.0
20	0.7
21~25	0.0
26	4.2
27	4.5
28~29	5.1
30	0.0
31	2.2
32	2.5
33	5.1
34~35	0.1
36	5.1
37~38	5.0
39~40	5.1
41	0.1
42	5.1

IC2, BMR-0101D

PIN NO.	VOLT (V)
1	5.1
2	0.0
3	0.1

IC3, SBX1981-72P

PIN NO.	VOLT (V)
1	5.1
2	0.0
3	5.1

IC4, KS24C04II

PIN NO.	VOLT (V)
1~4	0.0
5~6	5.1
7	0.0
8	5.1

IC101, TC4052BP

PIN NO.	VOLT (V)
1	0.0
2	0.1
3~4	2.2
5	0.1
6~8	0.0
9~10	6.6
11~15	0.0
16	9.1

IC301, TB1240AN

PIN NO.	VOLT (V)
1	3.1
2	4.1
3	8.8
4	5.0
5	0.0
6	0.9
7	1.9
8	4.0
9	4.1
10	2.0
11	3.0
12	0.0
13	0.1
14~16	2.7

IC301, TB1240AN

PIN NO.	VOLT (V)
17	9.0
18	3.0
19	2.9
20	2.8
21	5.9
22	4.1
23	4.8
24	0.7
25	1.8
26	5.0
27	5.0
28	9.2
29	3.5
30	1.4
31	4.6
32	2.0
33	0.0
34	1.2
35	3.6
36	4.9
37	2.6
38	2.6
39	2.9
40	7.1
41	0.7
42	0.0
43	2.9
44	2.3
45	0.2
46	5.0
47	3.5
48	4.5
49	0.0
50	7.9
51	7.9
52	8.8
53	4.5
54	5.6
55	3.5
56	4.4

IC302, TA1275AZ

PIN NO.	VOLT (V)
1	2.9
2	2.1
3~6	2.6
7	2.1
8	2.6
9	5.1
10	2.6
11	0.0
12	2.7
13	4.4
14	2.5
15	2.9
16	0.0
17	0.7
18	5.1
19	2.7
20	2.5
21	3.5

IC401, MM1454XD

PIN NO.	VOLT (V)
1~2	4.3
3	4.9
4	0.3
5~7	4.3
8	0.2
9~13	4.3
14	5.0
15	4.3
16	9.2

IC402, NJM2150

PIN NO.	VOLT (V)
1~7	4.7
8~11	0.2
12	9.1
13~20	4.7

IC403, M62420SP

PIN NO.	VOLT (V)
1	4.7
2~3	4.6
4	4.7
5~6	4.4
7	4.7
8	0.2
9~10	5.2
11~12	5.3
13	0.2
14	4.7
15	4.4
16	4.4
17	4.7
18~19	4.6
20	9.1

IC404, LA6458SLL

PIN NO.	VOLT (V)
1	9.1
2-4	4.7
5	0.2
6~8	4.7
9	9.1

IC409, MM1124B

PIN NO.	VOLT (V)
1~2	4.7
3	4.6
4~6	4.7
7	0.8
8	0.2
9	0.3
10	0.0
11	4.7
12	4.6
13	4.7
14	4.6
15	4.7
16	9.1

IC410, AN5277

PIN NO.	VOLT (V)
1	0.0
2	0.2
3	23.1
4~5	0.2
6	0.0
7	11.4
8	0.8
9	0.0
10	24.3
11	11.1
12	11.6

IC501, LA7832

PIN NO.	VOLT (V)
1	1.9
2	24.0
3	0.6
4	0.7
5	24.4
6	13.7
7	0.0

IC801, STR-F6656

PIN NO.	VOLT (V)
1	0.2
2	0.0
3	295.0
4	15.7
5	0.0

IC802, NJM7805FA

PIN NO.	VOLT (V)
1	11.3
2	0.0
3	5.1

IC701, MSP3417D

PIN NO.	VOLT (V)
1	0.7
2	0.0
3	0.7
4	0.8
5~6	4.9
7~8	5.0
9~11	0.7
12	0.8
13~14	0.7
15	0.6
16	4.9
17	0.0
18	0.7
19~20	0.0
21~22	0.1
23	0.0
24~25	0.1
26	0.0
27~28	3.7
29	0.0
30	3.7
31	8.1
32	0.0
33	8.1
34	7.2
35	0.0
36	3.7
37~40	0.0
41~42	3.7
43	2.6
44	3.7
45	0.0
46	4.9
47~48	1.5
49~50	0.0
51	2.3
52	2.1

IC803, NJM7809FA

PIN NO.	VOLT (V)
1	11.7
2	0.0
3	9.0

IC804, NJM7805FA

PIN NO.	VOLT (V)
1	9.0
2	0.0
3	5.1

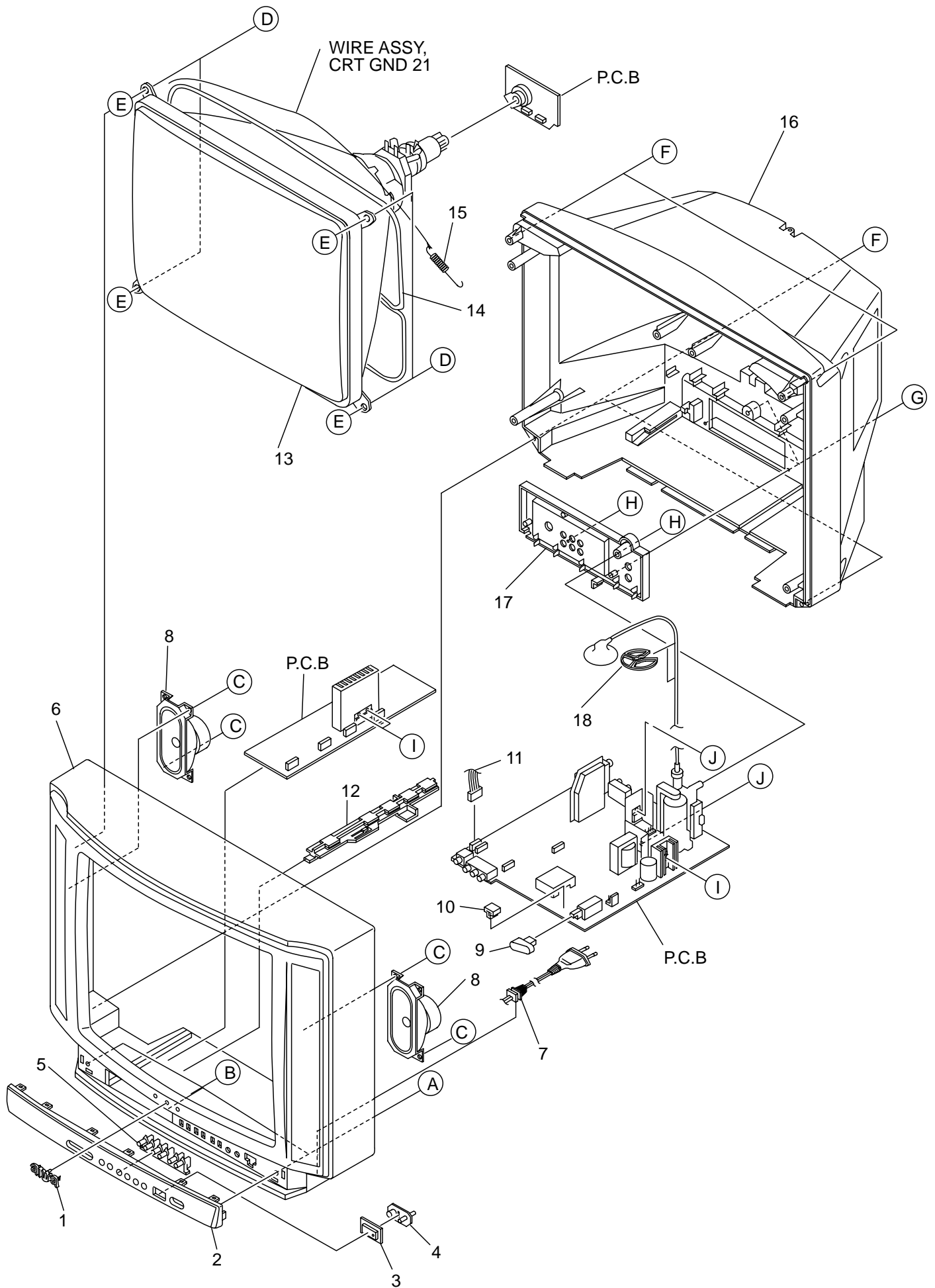
IC901, TC4052BP

PIN NO.	VOLT (V)
1	0.0
2	0.1
3~4	2.2
5	0.1
6~8	0.0
9~10	6.6
11~15	0.0
16	9.1

IC902, TC4052BP

PIN NO.	VOLT (V)
1~2	0.0
3~4	4.1
5	5.0
6~8	0.0
9~10	6.6
11	4.1
12	0.0
13	4.1
14	5.0
15	0.0
16	9.1

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	1	87-054-086-010	BADGE,AIWA 52.5
	2	8A-JBG-002-010	PANEL,MAIN SA2155
	3	8Z-JBR-005-010	LENS,RC
	4	8Z-JBR-006-010	LENS,LED
	5	8Z-JBR-004-010	KEY,MAIN
△	6	8A-JBG-001-010	CABI,FR BL
	7	8Z-JB4-695-010	AC CORD SET,EH BLK
	8	8Z-JB4-620-010	SPKR,6*12 8OHM 10W
	9	8Z-JB5-007-010	BTN,POWER SH
	10	84-LB3-216-010	HLDR,LED
△	11	8Z-JBX-602-010	CONN ASSY,4P SP 205-0.5
△	12	8Z-JBR-201-010	HLDR,PCB 1
	13	86-LB2-603-010	CRT,A51LMV10X06N00
	14	87-JBN-630-010	DGC,21PAL 7JB-22
	16	8Z-JBR-012-010	CABI,REAR N
	17	8Z-JB5-010-010	PANEL,REAR SH
	18	87-A90-332-010	HLDR,SF-2001 HV CABLE
A		87-067-680-010	BVI T3+3-10
B		87-067-758-010	BVT2+3-12 W/O SLOT
C		87-078-070-010	BVIT3B+4-12
	D	86-LBB-206-010	S-SCREW,ASSY TV5-40 W20
	E	8Z-JBS-204-010	W-PVC,10-20-1
	F	87-067-844-010	BVT2+4-16 BLK
	G	87-067-690-010	TAPPING SCREW, BVIT3+3-12
	H	87-067-761-010	TAPPING SCREW, BVT2+3-10
	I	87-B10-090-010	BVIT3B+3-12 GOLD
	J	87-067-579-010	TAPPING SCREW, BVT2+3-8

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		

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