

aiwa



TV-AS215

COLOR TELEVISION

• TYPE: NH

SIMPLE MANUAL

• Replace this Service Manual with "Revision Publishing" when it is issued.

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MANUAL
SERVICE

ELECTRICAL MAIN PARTS LIST - 1/4

NOTE: The characters in the suffix column indicate the part usage.

REF.NO	PARTS NO.	DESCRIPTION	SUFFIX
NH5L	XX	KANRI	A
	NO.	NO.	
C	808	BVI T3+3-10	A
C	807	CAP,E 47-25 SSL	A
C	809	CAP,E 1000-25 SSL	A
C	801	CAP, CER 0.1-50V	A
C	804	CAP,M/P 0.1-275 K RMR	A
C	816	CAP,M/P 0.1-275 K RMR	A
C	818	CAP,CER 2200P-125 UL	A
C	810	CAP,E 1000-25 SSL	A
C	812	CAP,E 10-25 SSL	A
C	811	CAP,CER 2200P-2K K R	A
C	817	CAP,CER 2200P-2K K R	A
C	815	CAP,E 22-160 M 105 YXA	A
C	813	CAP,E 22-160 M 105 YXA	A
CN	802	CAP,E 560U-200 K	A
CN	801	PLUG,2P MINI(*)	A
D	806	CONN,2P VA V	A
D	809	ZENER,MTZJ5.6B	A
D	808	DIODE,1SS133 (110MA)	A
D	805	DIODE,1SS133 (110MA)	A
D	803	DIODE,1N4003 SEM	A
D	802	DIODE,1N4003 SEM	A
D	804	DIODE,1N4003 SEM	A
D	801	DIODE,1N4003 SEM	A
D	807	DIODE,1N4003 SEM	A
D	810	DIODE,1N4003 SEM	A
D	811	DIODE,GBU4JL	A
D	820	VRIS,TNR15G271K	A
FC	801	FUSE CLAMP,FC 51F	A
FC	802	FUSE CLAMP,FC 51F	A
IC	801	IC,STR30110	A
L	801	FLTR,LINE ELF15N013A	A
Q	803	TR,2SA1175F	A
Q	802	TR,2SC2001L	A
Q	801	TR,2SC2785F	A
R	809	RES,CEM 2.2-10W J RGC	A
R	801	RES,SD 2.2M-1/2W K ERC 12UG	A
R	816	RES,M/F 12K-1/6W F	A
R	811	RES,CEM 180-20W K ZY	A
RY	801	RELAY,12V LK1AF	A
T	801	PT,US TP8155T	A
TH	801	POS-THMS,S1481-B50-A10	A
		TAPPING SCREW, BVT2+3-8	A
C	404	CAP,E 100-16 SSL	A
C	402	CAP,E 470-16 SSL	A
C	403	CAP,E 470-16 SSL	A
C	401	CAP,E 470-16 SSL	A
C	406	CAP,E 0.22-50 SSL	A
C	407	CAP,E 0.22-50 SSL	A
C	405	CAP,E 4.7-50 SSL	A
C	414	CAP,E 10-16 SSL	A
C	410	CAP,E 10-16 SSL	A
C	412	CAP,E 10-16 SSL	A
C	413	CAP,E 10-16 SSL	A
C	411	CAP,E 10-16 SSL	A
CN	401	CONN,4P V	A
D	405	DIODE,1N4003 SEM	A
D	402	ZENER,MTZJ9.1B	A
D	401	ZENER,MTZJ9.1B	A
D	404	ZENER,MTZJ9.1B	A
D	403	ZENER,MTZJ9.1B	A
FR	401	RES,FUSE 10-2W J	A
IC	402	IC,TC4052BP	A
IC	401	IC,LA4600	A
J	401	JACK,PIN 3P Y-W-R W/SW	A
J	403	JACK,3.5 ST (MSC)	A
J	402	JACK,PIN 3P Y	A
Q	401	TR,DTC114ES	A
Q	402	TR,2SC2785F	A
Q	403	TR,2SC2785F	A
		HLDR,LED	A
C	7	CAP,E 220-10 SSL	A
C	1	CAP,E 10-16 SSL	A
C	5	CAP,E 1-50 SSL	A
C	2	CAPACITOR,TC-U 0.01-16	A
C	3	CAPACITOR,TC-U 0.01-16	A
C	4	CAP, CER 1500P-16V	A
C	19	CAP,E 0.1-50 SSL	A
C	16	CAP,E 1-50 SSL	A
C	15	CAP, CER 220P-50V	A
C	18	CAP, CERA-SOL SS 560P	A
C	17	CAP, CER 1000P-50V	A
C	23	CAP, CER 220P-50V	A
C	24	CAP, CER 1000P-50V	A
CN	1	CONN,5P B5BEH	A
D	4	ZENER,MTZJ5.6B	A

ELECTRICAL MAIN PARTS LIST - 2/4

D	1	87-070-110-010	LED,SLP-181B-51	A.....
IC	4	87-A20-611-080	IC,M51943BSL-700A	A.....
IC	3	87-A21-106-010	IC,SLA24C04-D	A.....
IC	2	87-A91-538-010	RCR UNIT,SBX1981-72P	A.....
IC	1	8Z-JBH-621-010	IC,M37272M8-***SP	A.....
JW	1	8Z-JBH-635-080	COIL,CORE BL01RN1-A62	A.....
JW	16	87-003-147-080	COIL, 22UH	A.....
L	2	87-005-614-080	COIL 100UH LAV35 J	A.....
Q	2	87-026-269-080	TR,DTA114ES	A.....
Q	4	89-111-755-080	TR,2SA1175F	A.....
Q	3	89-327-854-080	TR,2SC2785F	A.....
SW	3	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	6	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	2	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	7	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	4	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	1	87-A90-712-080	SW,TACT EVQ11L07K	A.....
SW	5	87-A90-712-080	SW,TACT EVQ11L07K	A.....
X	1	87-030-212-080	CERA LOCK CST8.0M	A.....
C	104	87-016-621-080	CAP,E 220-10 SSL	A.....
C	101	87-016-636-080	CAP,E 4.7-50 SSL	A.....
C	106	87-A10-576-080	CAP,CER 0.01-50 Z YF	A.....
C	205	87-016-577-080	CAP,E 470-16 SSL	A.....
C	209	87-016-627-080	CAP,E 47-16 SSL	A.....
C	203	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	207	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	201	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	202	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	204	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	208	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	206	87-A10-287-080	CAP,M 2200P-50 J	A.....
C	214	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	215	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	210	87-018-115-080	CAP, CER 47P-50V	A.....
C	211	87-018-115-080	CAP, CER 47P-50V	A.....
C	703	87-015-464-080	CAP,E 4.7-16 BP	A.....
C	708	87-016-624-080	CAP,E 10-16 SSL	A.....
C	706	87-016-633-080	CAP,E 1-50 SSL	A.....
C	709	87-016-636-080	CAP,E 4.7-50 SSL	A.....
C	707	87-016-636-080	CAP,E 4.7-50 SSL	A.....
C	704	87-A10-292-080	CAP,M 5600P-50 J	A.....
C	705	87-A10-296-080	CAP,M 0.012-50 J	A.....
C	711	87-015-464-080	CAP,E 4.7-16 BP	A.....
C	713	87-015-464-080	CAP,E 4.7-16 BP	A.....
C	717	87-015-464-080	CAP,E 4.7-16 BP	A.....
C	716	87-016-301-080	CAP,TN 3.3-16K DN	A.....
C	718	87-016-302-080	CAP,TN 10-16K DN	A.....
C	710	87-016-574-080	CAP,E 100-16 SSL	A.....
C	719	87-016-633-080	CAP,E 1-50 SSL	A.....
C	712	87-016-636-080	CAP,E 4.7-50 SSL	A.....
C	714	87-A10-288-080	CAP,M 2700P-50 J	A.....
CF	201	84-LB3-626-010	FLTR,TPS4.5MB2	A.....
CF	202	87-008-574-080	FLTR,SFSH4.5MCB	A.....
D	101	87-002-743-080	ZENER,MTZJ 33B	A.....
D	103	87-017-931-080	ZENER,MTZJ5.6B	A.....
D	104	87-017-931-080	ZENER,MTZJ5.6B	A.....
D	102	87-070-136-080	ZENER,MTZJ5.1B	A.....
IC	701	8Z-JBH-605-010	IC,CXA2104S	A.....
L	207	87-003-147-080	COIL, 22UH	A.....
L	203	87-003-148-080	COIL BIAS 33UH	A.....
L	204	87-003-282-080	COIL,12UH	A.....
L	206	87-005-612-080	COIL,68UH J LAV35	A.....
L	205	8Z-JBH-610-010	COIL,PIF-SQ57EL349A 45.75MHZ	A.....
L	201	8Z-JBR-612-010	COIL,SIF 4.5MHZ 504BN	A.....
L	701	87-005-614-080	COIL 100UH LAV35 J	A.....
Q	201	89-327-854-080	TR,2SC2785F	A.....
Q	701	89-327-854-080	TR,2SC2785F	A.....
R	107	87-A00-331-090	RES,M/F 27K-2W J RSF(S)	A.....
R	110	87-A00-160-090	RES,M/F 33-2W J RSF(S)	A.....
R	706	87-A00-130-080	RES,M/F 62K-1/6W F	A.....
SF	201	8Z-JBH-633-010	FLTR,SAW M1969-US	A.....
TU	101	8Z-JBE-610-010	TU UNIT,USA ENV56D74G3	A.....
BT	301	87-JBC-625-010	CONN ASSY,5P V WHT TV-NK	A.....
C	303	87-016-624-080	CAP,E 10-16 SSL	A.....
C	302	87-016-624-080	CAP,E 10-16 SSL	A.....
C	301	87-016-624-080	CAP,E 10-16 SSL	A.....
C	308	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	304	87-016-637-080	CAP,E 10-50 SSL	A.....
C	305	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	309	87-018-147-080	CAP,TC-U 10P-50 CH	A.....
C	306	87-A10-112-080	CAP,E 100-10 SSL	A.....
C	307	87-A10-299-080	CAP,M 0.022-50 J	A.....
C	319	87-016-575-080	CAP,E 220-16 SSL	A.....
C	317	87-016-634-080	CAP,E 2.2-50 SSL	A.....
C	310	87-018-119-080	CAP, CER 100P-50V	A.....
C	315	87-018-131-080	CAP, CER 1000P-50V	A.....
C	314	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	318	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	311	87-018-209-080	CAP, CER 0.1-50V	A.....
C	313	87-018-209-080	CAP, CER 0.1-50V	A.....
C	312	87-018-209-080	CAP, CER 0.1-50V	A.....
C	316	87-A10-378-080	CAP,E 2.2-50 K SH	A.....

ELECTRICAL MAIN PARTS LIST - 3/4

C	328	87-016-624-080	CAP,E 10-16 SSL	A.....
C	323	87-016-625-080	CAP,E 22-16 SSL	A.....
C	324	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	325	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	321	87-016-636-080	CAP,E 4.7-50 SSL	A.....
C	320	87-018-196-080	CAP, CER 1500P-16V	A.....
C	335	87-016-574-080	CAP,E 100-16 SSL	A.....
C	338	87-016-632-080	CAP,E 0.47-50 SSL	A.....
C	330	87-016-633-080	CAP,E 1-50 SSL	A.....
C	332	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	334	87-018-134-080	CAPACITOR,TC-U 0.01-16	A.....
C	336	87-018-209-080	CAP, CER 0.1-50V	A.....
C	342	87-016-633-080	CAP,E 1-50 SSL	A.....
C	343	87-018-131-080	CAP, CER 1000P-50V	A.....
D	308	87-A40-348-080	ZENER,MTZJ3.3A	A.....
D	301	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	307	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	302	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	305	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	304	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	306	87-A40-523-080	ZENER,MTZJ9.1B	A.....
D	309	87-A40-611-080	ZENER,MTZJ3.9B	A.....
D	312	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	317	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	311	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	315	87-A40-286-080	DIODE,RGP10JE-5025	A.....
D	314	87-A40-520-080	ZENER,MTZJ11B	A.....
IC	303	87-002-421-010	IC,NJM2233BL	A.....
IC	302	87-A20-364-010	IC,KIA7809PI	A.....
IC	301	87-A21-239-010	IC,TA1201CN	A.....
JW	26	8Z-JBH-635-080	COIL,CORE BL01RN1-A62	A.....
Q	302	89-110-154-080	TR,2SA1015Y	A.....
Q	309	89-111-755-080	TR,2SA1175F	A.....
Q	307	89-111-755-080	TR,2SA1175F	A.....
Q	308	89-111-755-080	TR,2SA1175F	A.....
Q	301	89-111-755-080	TR,2SA1175F	A.....
R	309	87-025-380-080	RES,M/F 15K-1/6W F	A.....
R	307	87-025-427-080	RES,M/F 27K-1/6W F	A.....
R	312	87-A00-356-090	RES,M/F 22-2W J RSS2X	A.....
X	302	87-030-327-010	VIB,CER CSB503F30	A.....
X	301	87-A70-007-080	VIB,XTAL 3.58MHZ AQC-1001	A.....
C	907	87-016-577-080	CAP,E 470-16 SSL	A.....
C	908	87-016-627-080	CAP,E 47-16 SSL	A.....
C	902	87-018-126-080	CAP,TC-U 390P-50 B	A.....
C	904	87-018-126-080	CAP,TC-U 390P-50 B	A.....
C	903	87-018-126-080	CAP,TC-U 390P-50 B	A.....
C	901	87-A10-833-090	CAP,CER 1000P-2K K R	A.....
CN	902	87-009-033-010	CONNECTOR, 5P	A.....
CN	901	87-049-469-010	CONN,4P V	A.....
CN	904	87-A60-485-010	CONN,2P V LV GRA	A.....
D	902	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	901	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	903	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	904	87-020-465-080	DIODE,1SS133 (110MA)	A.....
L	901	87-005-615-080	COIL,120UH J LAV35	A.....
Q	902	87-A30-176-010	TR,2SC1573A P/Q/R	A.....
Q	901	87-A30-176-010	TR,2SC1573A P/Q/R	A.....
Q	903	87-A30-176-010	TR,2SC1573A P/Q/R	A.....
Q	904	89-320-012-080	TR,2SC2001L	A.....
R	904	87-A00-165-090	RES,M/F 15K-2W J RSF(S)	A.....
R	906	87-A00-165-090	RES,M/F 15K-2W J RSF(S)	A.....
R	905	87-A00-165-090	RES,M/F 15K-2W J RSF(S)	A.....
S	901	86-LBR-670-010	SOCKET,CRT 9P HPS1521	A.....
		87-067-579-010	TAPPING SCREW, BVT2+3-8	A.....
BT	601	87-JBC-626-010	CONN ASSY,4P V WHT TV-NK	A.....
C	503	87-016-633-080	CAP,E 1-50 SSL	A.....
C	504	87-016-633-080	CAP,E 1-50 SSL	A.....
C	508	87-A10-469-080	CAP,CER 2200P-500 K B DD10	A.....
C	502	87-A10-831-080	CAP,E 1000-25 M SMG	A.....
C	501	88-708-980-810	CAP,M 0.056-100 J AMZV	A.....
C	511	87-016-591-080	CAP,E 100-35 SSL	A.....
C	512	87-018-127-080	CAP, CER 470P-50V	A.....
C	510	87-018-131-080	CAP, CER 1000P-50V	A.....
C	604	87-010-396-080	CAP,E 470-35 SME	A.....
C	603	87-010-974-080	CAP,CER 220P-500 B	A.....
C	609	87-016-482-010	CAP,PP 6800P-1.6K J DKR	A.....
C	605	87-016-587-080	CAP,E 1000-25 SSL	A.....
C	601	87-016-599-080	CAP,E 10-250 SSL	A.....
C	607	87-A11-321-090	CAP,E 100-160 M 105 YXA	A.....
C	606	8Z-JBH-626-010	CAP,M/P 0.30-250 J A TYPE	A.....
C	608	8Z-JBJ-602-010	CAP,CER 220P-2K K BN	A.....
C	610	87-010-974-080	CAP,CER 220P-500 B	A.....
C	611	87-010-974-080	CAP,CER 220P-500 B	A.....
C	615	87-016-215-080	CAP,E 1-160 M TWSS	A.....
C	612	87-016-624-080	CAP,E 10-16 SSL	A.....
C	613	87-016-634-080	CAP,E 2.2-50 SSL	A.....
CN	601	87-A60-933-010	CONN,4P V B04(5-3)B-DVS-L	A.....
D	501	87-070-274-080	DIODE,1N4003 SEM	A.....
D	602	87-017-354-080	DIODE,RU3	A.....
D	609	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	606	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	607	87-020-465-080	DIODE,1SS133 (110MA)	A.....

ELECTRICAL MAIN PARTS LIST - 4/4

D	605	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	604	87-070-274-080	DIODE,1N4003 SEM	A.....
D	603	87-A40-286-080	DIODE,RGP10JE-5025	A.....
D	601	87-A40-286-080	DIODE,RGP10JE-5025	A.....
D	611	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	610	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	612	87-020-465-080	DIODE,1SS133 (110MA)	A.....
D	613	87-A40-286-080	DIODE,RGP10JE-5025	A.....
FR	605	87-029-175-060	RES FUSE,2.2K 1/2W J	A.....
FR	604	87-A00-050-060	RES,FUSE 2.2-1W J R-TYPE	A.....
FR	603	87-A00-056-060	RES,FUSE 1.5-2WJ R-TYPE	A.....
FR	602	87-A00-056-060	RES,FUSE 1.5-2WJ R-TYPE	A.....
FR	601	87-A00-063-060	RES,FUSE 2.2-1/2W J R-TYPE	A.....
IC	501	87-070-237-010	IC,LA7832	A.....
L	602	87-A50-040-010	COIL,2.2MH	A.....
L	603	8Z-JBE-606-010	COIL,LINEARITYSH5L8409	A.....
L	604	8Z-JBE-608-010	COIL,CHOKEEELC08D560E	A.....
Q	501	89-327-854-080	TR,2SC2785F	A.....
Q	601	87-A30-050-010	TR,2SD2499	A.....
Q	602	87-A30-176-010	TR,2SC1573A P/Q/R	A.....
R	606	8Z-JBH-628-080	RES,M/F 0.47-1/2W K ERX 12SJ	A.....
R	610	87-A00-548-090	RES,M/F 5.6K-2W J ERGS	A.....
R	611	87-A00-548-090	RES,M/F 5.6K-2W J ERGS	A.....
R	624	87-A00-544-090	RES,M/F 220-3W J ERGS	A.....
T	602	85-JT2-653-010	PT,HDT-TV141-2	A.....
T	601	8Z-JBE-602-010	FBT,US HFT3610	A.....
T	603	8Z-JBH-612-010	FLTR,PULSE ELF15N005A	A.....
FB	0	8Z-JBH-636-010	F-BEAD,2.7-5.5-4 FSOB060	A.....
		87-A90-332-010	HLDR,SF-2001 HV CABLE	A.....
BT	401	8Z-JBW-602-110	CONN ASSY,4P V WHT SP20	A.....
BT	801	8Z-JBH-618-010	AC CORD,US BLK	A.....
BT	903	86-LBN-622-010	CONN ASSY,1P CRT-GND	A.....
F	801	87-035-489-010	FUSE,4A125V D UL	A.....
L	810	8Z-JBE-605-010	DGC,21'US	A.....
SP	401	87-A91-412-010	SPKR,F 4*10 8OHM 5W S0410J06	A.....
SP	402	87-A91-412-010	SPKR,F 4*10 8OHM 5W S0410J06	A.....
V	901	8Z-JBE-601-010	CRT,A51JFC82X26(C)	A.....

MECHANICAL PARTS LIST - 1/1

NOTE: The characters in the suffix column indicate the part usage.

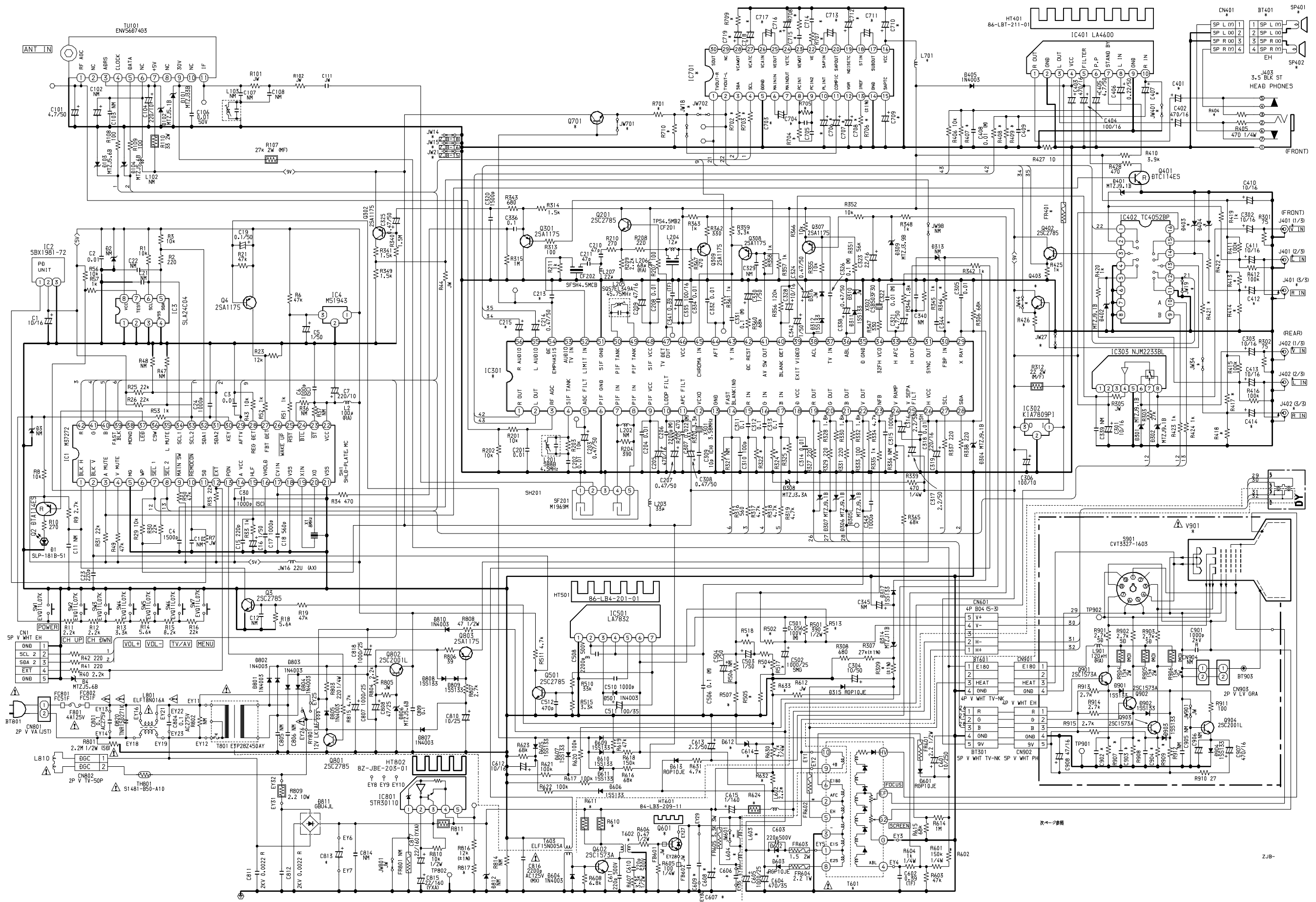
NH5L	XX.....	A.....
	KANRI	
REF.NO	PARTS NO.	NO. DESCRIPTION SUFFIX
	84-LB2-025-010	PANEL,FOOT NH A.....
	8Z-JBE-009-010	PLATE,JACK UL A.....
	86-LB3-005-210	CABI,REAR A.....
	86-LBB-010-110	PANEL,REAR A.....
	87-054-086-010	BADGE,AIWA 52.5 A.....
	88-JBJ-008-010	GRILLE,SPKR L ST A.....
	88-JBJ-009-010	GRILLE,SPKR R ST A.....
	8Z-JBE-002-010	CABI,FR UL A.....
	8Z-JBE-011-010	PANEL,FR AS215 A.....
	86-LBB-010-110	PANEL,REAR A.....
	8Z-JBE-002-010	CABI,FR UL A.....
	8Z-JBE-003-010	PANEL,FR S2011 UL A.....
	8Z-JBE-007-010	CABI,REAR UL A.....
	84-LB3-205-010	SPR-E,EARTH A.....
	86-LBU-201-010	HLDR,AC CORD A.....
	8Z-JBH-201-010	HLDR,FBT ST A.....
	86-LBB-206-010	S-SCREW,ASSY TV5-40 W20 A.....
	87-067-680-010	BVI T3+3-10 A.....
	87-067-758-010	BVT2+3-12 W/O SLOT A.....
	87-067-761-010	TAPPING SCREW, BVT2+3-10 A.....
	87-067-844-010	BVT2+4-16 BLK A.....
	87-751-074-410	VT2+2.6-8 W/O CUT A.....
	87-B10-071-010	BVT2+3-16 W/O SLOT B A.....
	87-067-680-010	BVI T3+3-10 A.....
	87-067-579-010	TAPPING SCREW, BVT2+3-8 A.....
	84-LB3-216-010	HLDR,LED A.....
	87-067-579-010	TAPPING SCREW, BVT2+3-8 A.....
	87-A90-332-010	HLDR,SF-2001 HV CABLE A.....

ACCESSORIES / PACKAGE LIST - 1/1

NOTE: The characters in the suffix column indicate the part usage.

NH5L	XX.....	A.....		
	KANRI			
REF.NO	PARTS NO.	NO.	DESCRIPTION	SUFFIX
	8Z-JBE-904-010		IB,U (E/S/F) S2011 -D
	8Z-JBE-907-010		IB,NH E/S -AS215	A.....
	87-B30-072-010		ADAPTOR,300 75HPN-02	A.....
	8Z-JBE-953-010		RC UNIT,RC-ZVT09	A.....

SCHEMATIC DIAGRAM – 1 (MAIN)



サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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