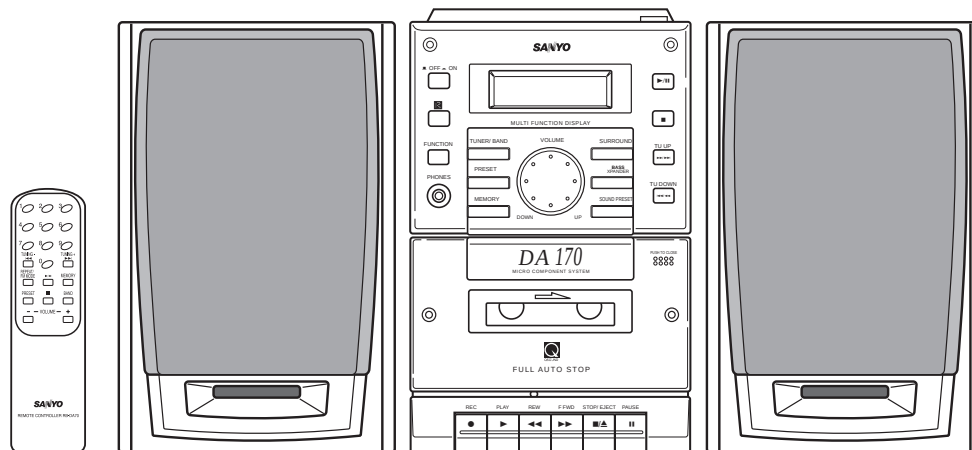


Service Manual

Micro Component System

DC-DA170 (UK) (XE)



Contents

PRODUCT CODE No.

129 601 00 (UK)

129 601 01 (XE)

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This service manual consists of "DC-DA170U" (Main unit : 129 960 00 for UK, 129 960 01 for XE) and "SX-DA70" (Speaker system : 165 028 00 for UK, 129 028 01 for XE).

SPECIFICATIONS

Tuner

Reception frequency FM : 87.5 - 108.0 MHz
MW : 522 - 1611 kHz
LW : 144 - 288 kHz (UK only)

CD player

Channels 2-channel stereo
Sampling frequency 44.1 kHz
Pick-up Optical 3-beam
semiconductor laser
Wow and Flutter Below measurable limits
Wave length 790 nm
Laser output 0.6mW(Continuous wave max.)

Cassette deck section

Track system 4-track, 2-channel stereo
Frequency response 80 Hz - 15 kHz
Signal to noise ratio 40 dB
Wow and Flutter 0.15% (WRMS)
Fast forward / Rewind time Approx. 110 sec. (C-60)

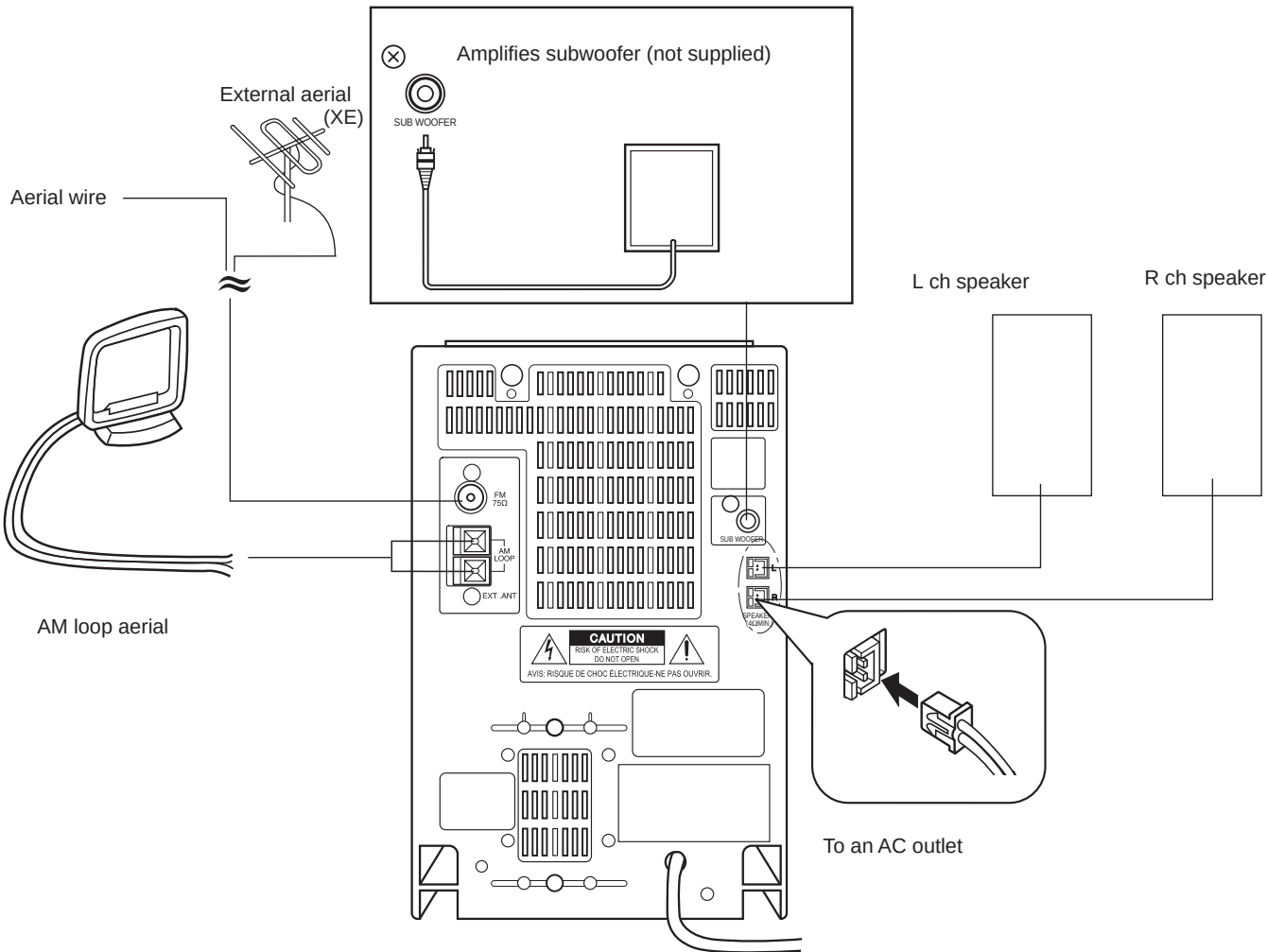
General

Output power 4 W x 2 (at 4 ohms, 10% distortion)
Inputs VIDEO IN : 400 mV / 50k ohms
Outputs SPEAKERS : 4 ohms
PHONES : 8 - 32 ohms
Power requirements AC 230 V, 50 Hz
Power consumption 19 W
Dimensions (W x H x D) Approx. 150 x 240 x 212 mm
Weight Approx. 2.3 kg

Speaker system

Type Full range bass reflex
Drivers 10 cm cone type
Maximum
power-handling capacity 8 Watts (peak)
Nominal impedance 4 ohms
Dimensions (W x H x D) Approx. 150 x 230 x 190 mm
Weight Approx. 1.2 kg (per speaker)

SYSTEM CONNECTIONS



LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

CAUTION :

USE OF CONTROLS OR ADJUSTMENTS
OR PERFORMANCE OF PROCEDURES
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE

LASER OUTPUT 0.6 mW Max. (CW)

WAVELENGTH 790 nm

CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND
INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

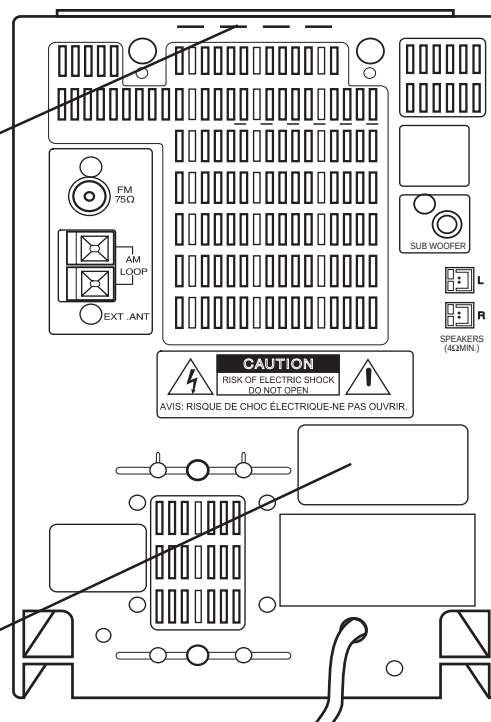
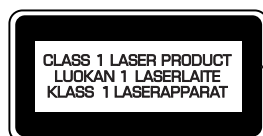
ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR
SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE
FOR STRÅLING.

VARNING – OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD
OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.

VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN
DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG
ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.

VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA
NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

(XE)



CD PICK-UP MAINTENANCE

About pick-up (Optical lens) Cleaning

Clean a lens with swab of the cotton which moistened it with alcohol, cleaning paper or cleaning disc appointed.

Specified cleaning disc : LC-1 (Part code : 645 026 1961 manufactured by SANYO.)

Show a clean procedure in the following in reference by swab of cotton.

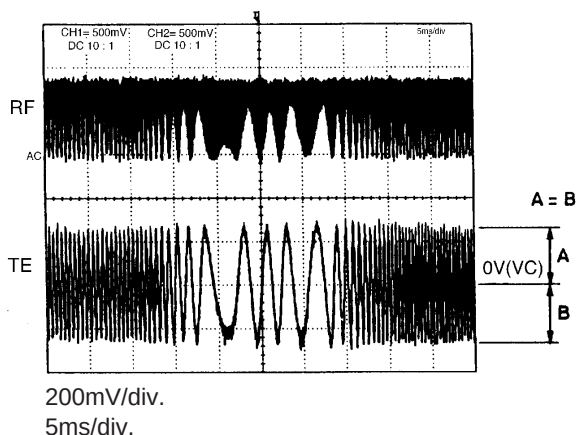
- Cotton swab is wrapped with Cleaning paper.
- Add the isopropyl alcohol.
- Gently move the tip of cotton swab just like a draw a whirlpool from inside to outside on the surface of lens.

CD PLAYER ADJUSTMENTS

1. ADJUSTMENTS

(1) Confirm the tracking balance

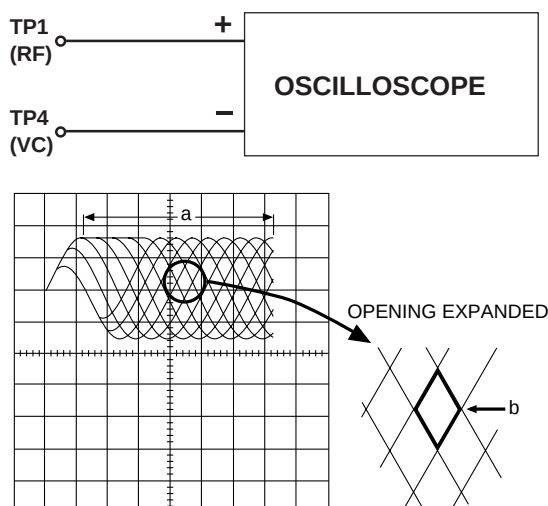
- Turn on the POWER switch.
- Connect an Oscilloscope to TP2 (TE) and TP4 (VC).
- Set the test disc.
- Press "PLAY" button to turn into the "PLAY" mode.
- Keep holding "SKIP" button down so as to be "SERCH" mode, then confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V (VC).



CD PLAYER ADJUSTMENTS

(2) Checking the "eye" pattern

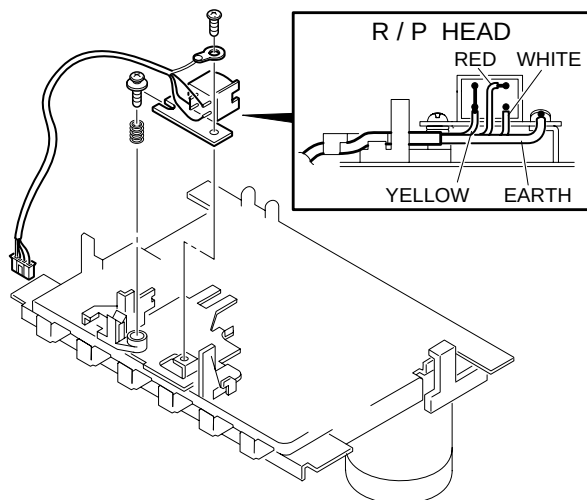
1. Switch "ON" the POWER.
2. Connect an oscilloscope to TP1 (RF) and TP4 (VC).
3. Load the test disc.
4. Press the PLAY button.
5. Check to be sure that the "eye" pattern is at the center of waveform and that the diamond shape is clearly defined.
6. Press the STOP button.
7. Turn off the POWER switch.



TAPE ADJUSTMENTS

a. Replacing the head

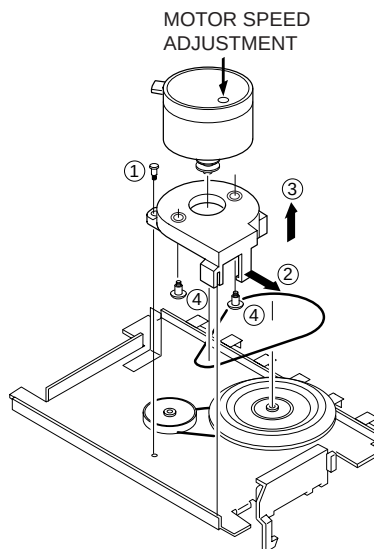
1. After replacement, demagnetize the heads by using a degausser.
2. Be sure to clean the heads before attempting to make any adjustments.
3. Be sure both channels (1 and 2) are the same level. (Using a dual-channels oscilloscope).
4. All wiring should be returned to the original position after work is completed.



c. Adjusting motor speed

1. Insert the test tape (MTT-111 or etc. 3,000 Hz).
2. Press the PLAY button.
3. Use a flat-tip screwdriver to turn the SVR to adjust so that the frequency counter becomes 3,000 Hz.
4. Press the STOP button.

d. Replacing the moto



b. Adjusting head azimuth

1. Load a test tape (VTT-738, etc. :10kHz) for azimuth adjustment.
2. Press the PLAY button.
3. Use a cross-tip screwdriver to turn the screw for normal azimuth adjustment so that the left and right outputs are maximized at the same phase during normal playback.
4. Press the STOP button.

e. Checking the mechanism torques

- Clean the head, capstan and pinch roller before making any measurement.

Measureent	Take-up torque	Back tension	Tape tension
Cassette for measurement	PLAY : TW-2111A F.FWD/REW : TW-2231	PLAY : TW-2111A	Drive-power cassette TW-2412
PLAY	30 ~ 70gr.cm	1.0 ~ 6.0gr.cm	80 gr or more
F.FWD/REW	55 gr or more	-	-

PARTS LIST

PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL Δ IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY Δ , USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.
Regular type resistors are less than 1/4 W carbon type and 0 ohm chip resistors.
Regular type capacitors are less than 50 V and less than 1000 μ F type of Ceramic type and Electrical type.

PACKING & ACCESSORIES

REF.NO.	PART NO.	DESCRIPTION
	614 314 1358	CARTON CASE(UK)
	614 315 7953	CARTON CASE(XE)
	614 314 1365	CUSHION,REAR
	614 314 1372	CUSHION,FRONT
	614 314 1396	INSTRUCTION MANUAL(UK)
	614 316 3107	INSTRUCTION MANUAL(XE)
	614 245 8587	NOTICE,AC CODE(UK)
	645 043 7366	POLY SHEET-0380X0300*NC(UK)
	645 043 7373	POLY SHEET-0380X0300*NC(XE)
	645 005 1227	ASSY,ANTENA,LOOP
	645 040 3217	REMOCON,RB-DA70
or	645 042 3604	REMOCON,RB-DA70
or	645 042 3611	REMOCON,RB-DA70
	614 229 4635	ANTENNA (XE)
or	614 308 5515	ANTENNA (XE)
	614 314 8975	ASSY,BOX,SPEAKER(UK)
	614 314 8982	ASSY,BOX,SPEAKER(XE)

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 314 1082	ASSY,DOOR,DECK
2	614 314 1334	SPRING,DOOR DECK
3	614 303 5718	KNOB,VR
4	614 314 1099	ASSY,PANEL,FRONT
5	614 309 7969	ASSY,GEAR,(CASSETTE)
6	614 314 1211	KNOB,DECK,MECHA,REC
7	614 314 1228	KNOB,DECK,MECHA,PLAY
8	614 314 1235	KNOB,DECK,MECHA,REW
9	614 314 1242	KNOB,DECK,MECHA,FFWD
10	614 314 1259	KNOB,DECK,MECHA,STOP/EJECT
11	614 314 1266	KNOB,DECK,MECHA,PAUSE
12	614 314 1297	MOUNTING,DECK
13	614 314 1143	BUTTON,OPERATION,7 KEYS
14	614 314 1136	BUTTON,RIGHT,4 KEYS
16	614 310 3899	SPACER,MECHA
17	614 307 2072	COVER,PICK-UP
18	614 307 8784	LEVER
19	614 314 1303	MOUNTING,CD
20	614 317 5373	ASSY,GEAR,(LID,CD)
21	614 314 1341	SPRING,DOOR CD
22	614 314 1129	BUTTON,CD OPEN,1 KEY
23	614 307 8821	PULLEY
24	614 303 0256	LATCH,MAGNET
25	614 314 1280	LID,CD
26	614 314 7497	COVER
27	614 314 1181	DEC,WINDOW,CD
28	614 314 1105	BUTTON,POWER,1 KEY
29	614 314 1327	SPRING,REC
30	614 314 7541	MOUNTING
31	614 308 4914	STOPPER
32	614 314 1075	ASSY,CABINET,REAR(UK)
32	614 316 3060	ASSY,CABINET,REAR(XE)
33	614 307 9804	ASSY,MECHA,CDDA11-SASH

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 021 3107	SCR S-TPG BIN 2.6X8, F-PANEL+MTG DECK KNOB
Y02	411 021 3503	SCR S-TPG BIN 3X10, MTG CD+FRONT PCB
Y03	411 021 3503	SCR S-TPG BIN 3X10, MTG CD+CD PCB
Y04	411 021 1806	SCR S-TPG BIN 2.6X10,MTG CD+DA11
Y05	411 092 0906	WASHER Z 2.6X10X0.5,MTG CD+DA11
Y06	411 021 3503	SCR S-TPG BIN 3X10, MTG CD+TUNER PCB
Y07	411 098 4700	SCR S-TPG BIN 2.3X8, DEC WINDOW CD+LID CD
Y08	411 021 3503	SCR S-TPG BIN 3X10, MTG CD+MAIN PCB
Y09	411 021 3503	SCR S-TPG BIN 3X10, REAR+DECK MECHA, MOUNTING+DECK MECHA
Y10	411 126 1404	SCR S-TPG BIN 2X4, SPRING DECK REC
Y11	411 020 9100	SCR S-TPG BRZ+FLG 3X12, REAR+P-TRANS
Y12	411 098 7800	SCR S-TPG FLT 3X12, C-REAR(L/R SIDE)
Y13	411 021 4500	SCR S-TPG BIN 3X16,C-REAR
Y14	411 021 3503	SCR S-TPG BIN 3X10, C-REAR(ANT TERMINAL)
Y15	411 021 3503	SCR S-TPG BIN 3X10,MTG CD+REAR
Y16	411 021 3503	SCR S-TPG BIN 3X10,SUB-WOOFER
Y17	411 021 4005	SCR S-TPG BIN 3X12,REAR+STOPPER

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION
51	614 316 3602	FLEXIBLE FLAT CABLE,AMP-FRONT
52	614 316 3619	FLEXIBLE FLAT CABLE,TU-FRONT
53	614 310 9822	WIRE,UL1533-AWG26B,TU-FRONT
54	614 313 7023	FLEXIBLE FLAT CABLE, CD-PICK UP-CD
or	614 310 5459	FLEXIBLE FLAT CABLE, CD-PICK UP-CD
55	614 309 8454	ASSY,WIRE,CD-PICK UP-CD
or	614 314 4779	ASSY,WIRE,CD-PICK UP-CD
56	614 274 2013	CORD,ID CONNECTOR,FM ANT(UK)
57	Δ 423 016 7908	FUSE 250V 2.5A
58	614 314 4786	ASSY,WIRE,R/P HEADS-AMP
or	614 309 8799	ASSY,WIRE,R/P HEADS-AMP
59	614 314 4793	ASSY,WIRE,MECHA SW-AMP
or	614 309 8805	ASSY,WIRE,MECHA SW-AMP
60	Δ 645 036 9803	CORD,POWER-1.6MK(UK)
or	Δ 645 036 9797	CORD,POWER-1.6MK(UK)
60	Δ 645 016 9939	CORD,POWER-1.74MK(XE)
61	Δ 645 038 7555	TRANS,POWER

PARTS LIST

FRONT P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	614 314 0689	ASSY,PWB FRONT(UK)(Only Initial)
71	614 316 3411	ASSY,PWB FRONT(XE)(Only Initial)
BR601	614 314 1204	HOLDER,LCD
BR602	614 315 7038	COVER,LED
C6200	403 259 0508	NP-ELECT 1U M 50V
CN601	645 012 5096	SOCKET,FPC 12P,FRONT-AMP
CN603	645 012 5195	SOCKET,FPC 15P,FRONT-TU
D6600	407 221 3801	LED 1224UBC/C470
D6901	407 012 4406	DIODE 1SS133
D6902	407 012 4406	DIODE 1SS133
IC601	409 502 8406	IC LC72336-9A15,MICON
L6900	645 001 4550	INDUCTOR,10U K
or	645 031 7835	INDUCTOR,10U K
LCD60	645 043 6260	LCD
LS601	614 314 9286	DEC,SHEET,LCD
Q6200	405 017 9600	TR 2SC3330-T
or	405 143 8706	TR KTC3199-GR
or	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
or	405 017 9709	TR 2SC3330-U
Q6201	405 143 8706	TR KTC3199-GR
or	405 011 8500	TR 2SC1740S-R
or	405 011 8609	TR 2SC1740S-S
or	405 017 9600	TR 2SC3330-T
or	405 017 9709	TR 2SC3330-U
R6001	401 105 5905	MT-GLAZE 560 JA 1/16W
R6002	401 105 6506	MT-GLAZE 680 JA 1/16W
R6003	401 105 7305	MT-GLAZE 820 JA 1/16W
R6004	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R6005	401 105 5905	MT-GLAZE 560 JA 1/16W
R6006	401 105 6506	MT-GLAZE 680 JA 1/16W
R6007	401 105 7305	MT-GLAZE 820 JA 1/16W
R6008	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R6009	401 105 4205	MT-GLAZE 33K JA 1/16W (UK)
R6010	401 105 0603	MT-GLAZE 10K JA 1/16W
R6011	401 105 0603	MT-GLAZE 10K JA 1/16W
R6012	401 105 0603	MT-GLAZE 10K JA 1/16W
R6013	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6100	401 105 0702	MT-GLAZE 100K JA 1/16W
R6103	401 105 0702	MT-GLAZE 100K JA 1/16W
R6104	401 105 0603	MT-GLAZE 10K JA 1/16W
R6105	401 105 0603	MT-GLAZE 10K JA 1/16W
R6106	401 105 0603	MT-GLAZE 10K JA 1/16W
R6107	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6108	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6109	401 105 5400	MT-GLAZE 47K JA 1/16W
R6110	401 105 0702	MT-GLAZE 100K JA 1/16W
R6111	401 105 5400	MT-GLAZE 47K JA 1/16W
R6112	401 105 0603	MT-GLAZE 10K JA 1/16W
R6113	401 105 0603	MT-GLAZE 10K JA 1/16W
R6200	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R6201	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6501	401 105 0504	MT-GLAZE 1K JA 1/16W
R6502	401 105 0504	MT-GLAZE 1K JA 1/16W
R6600	401 105 3208	MT-GLAZE 270 JA 1/16W
R6905	401 105 0405	MT-GLAZE 100 JA 1/16W
R6906	401 105 5202	MT-GLAZE 470 JA 1/16W
R6907	401 105 5400	MT-GLAZE 47K JA 1/16W
S6001	614 220 5471	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
or	614 240 1002	SWITCH,TACT
S6002	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T
S6003	614 220 5471	SWITCH,TACT
or	614 240 1002	SWITCH,TACT
or	645 006 5958	SWITCH,PUSH 1P-1T

REF.NO.

S6004
or
or
S6005
or
or
S6006
or
or
S6007
or
or
S6008
or
or
S6009
or
or
S6010
or
or
S6011
or
or
S6500

SE601
X6001

PART NO.

614 220 5471
614 240 1002
645 006 5958
614 220 5471
614 240 1002
645 006 5958
645 006 5958
614 220 5471
614 240 1002
614 240 1002
645 006 5958
614 220 5471
614 240 1002
645 006 5958
614 220 5471
614 240 1002
645 006 5958
614 220 5471
614 240 1002
645 006 5958
645 043 6253

407 217 1101
645 032 6424

DESCRIPTION

SWITCH,TACT
SWITCH,TACT
SWITCH,PUSH 1P-1T
SWITCH,TACT
SWITCH,TACT
SWITCH,PUSH 1P-1T
SWITCH,PUSH 1P-1T
SWITCH,TACT
SWITCH,TACT
SWITCH,PUSH 1P-1T
SWITCH,TACT
SWITCH,TACT
SWITCH,PUSH 1P-1T
SWITCH,TACT
SWITCH,TACT
SWITCH,PUSH 1P-1T
SWITCH,PUSH 1P-1T
SWITCH,ROTARY(ENCODER),
SWITCH_ROTARY
PHOTO DIODE SPS-442-1G
OSC,CRYSTAL 4.5MHZ

CD P.W.BOARD ASSY

REF.NO.

72
C1317
CN111
or
CN113
or
CN122
or
D1402
D1403
D1404
D1410
IC101
IC102
IC103
L1451
or
PR140
Q1301
or
or
or
Q1401
or
or
R1301
R1302
R1303
R1304
R1305
R1308
R1309
R1310
R1311
R1312
R1313

PART NO.

614 314 0696
404 085 3909
645 026 2463
645 040 0513
614 310 2472
645 005 8127
614 310 2496
645 005 8134
407 099 5204
407 012 4406
407 012 4406
407 098 3300
409 396 8100
409 435 2106
409 372 9602
645 031 7835
645 001 4550
645 042 2539
405 008 6809
405 151 4509
405 008 7103
405 151 4608
405 141 3604
405 009 5207
405 009 5306
401 105 0504
401 105 0306
401 105 0702
401 105 6605
401 105 2805
401 105 3406
401 105 4007
401 105 1600
401 105 0702
401 105 6605
401 105 2904

DESCRIPTION

ASSY,PWB CD (Only Initial)
ELECT 0.22U M 50V
SOCKET,FFC 15P
SOCKET,FPC 15P
PLUG,6P,BASEMECHA
PLUG,6P,BASEMECHA
PLUG,8P
PLUG,8P
ZENER DIODE MTZJ5.1B
DIODE 1SS133
DIODE 1SS133
DIODE RL153-BF-S2
IC LA9241ML
IC LC78622NE
IC LA6541
INDUCTOR,10U K
INDUCTOR,10U K
PROTECTOR,0.4A 125V
TR 2SB808-F-SPA
TR KTA1270-Y
TR 2SB808-G-SPA
TR KTA1270-O
TR KTA1273-Y
TR 2SB927-S
TR 2SB927-T
MT-GLAZE 1K JA 1/16W
MT-GLAZE 10 JA 1/16W
MT-GLAZE 100K JA 1/16W
MT-GLAZE 6.8K JA 1/16W
MT-GLAZE 2.2K JA 1/16W
MT-GLAZE 27K JA 1/16W
MT-GLAZE 330 JA 1/16W
MT-GLAZE 15K JA 1/16W
MT-GLAZE 100K JA 1/16W
MT-GLAZE 6.8K JA 1/16W
MT-GLAZE 22K JA 1/16W

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
R1314	401 105 2904	MT-GLAZE 22K JA 1/16W	L2002	645 018 0224	COIL,AIR
R1315	401 105 1600	MT-GLAZE 15K JA 1/16W	L2003	645 031 7859	INDUCTOR,8.2U K
R1317	401 105 8203	MT-GLAZE 68K JA 1/16W	or	645 002 1534	INDUCTOR,8.2U K
R1318	401 105 1501	MT-GLAZE 1.5K JA 1/16W	L2005	645 002 1459	INDUCTOR,22U K
R1320	401 105 7404	MT-GLAZE 8.2K JA 1/16W	L2006	645 002 1459	INDUCTOR,22U K
R1324	401 105 4205	MT-GLAZE 33K JA 1/16W	L2007	645 002 1459	INDUCTOR,22U K
R1325	401 105 8104	MT-GLAZE 56K JA 1/16W	L2101	645 004 0580	INDUCTOR,1M J
R1326	401 105 0504	MT-GLAZE 1K JA 1/16W	L2102	645 040 2685	TRANS,ANT,796KHZ
R1327	401 105 8104	MT-GLAZE 56K JA 1/16W	L2103	645 040 2692	TRANS,ANT,796KHZ
R1328	401 105 6605	MT-GLAZE 6.8K JA 1/16W	L2204	645 040 2708	TRANS,OSC,796KHZ
R1329	401 105 0603	MT-GLAZE 10K JA 1/16W	L2205	645 040 2722	TRANS,OSC,796KHZ
R1330	401 105 3000	MT-GLAZE 220K JA 1/16W	Q2000	405 151 4301	TR KTC3195-Y
R1331	401 105 3000	MT-GLAZE 220K JA 1/16W	or	405 151 4806	TR KTC3195-O
R1332	401 105 1600	MT-GLAZE 15K JA 1/16W	Q2003	405 017 9709	TR 2SC3330-U
R1333	401 105 1105	MT-GLAZE 12K JA 1/16W	or	405 011 8609	TR 2SC1740S-S
R1334	401 105 0504	MT-GLAZE 1K JA 1/16W	or	405 011 8500	TR 2SC1740S-R
R1335	401 105 0603	MT-GLAZE 10K JA 1/16W	or	405 143 8706	TR KTC3199-GR
R1336	401 105 4007	MT-GLAZE 330 JA 1/16W	or	405 017 9600	TR 2SC3330-T
R1337	401 105 6605	MT-GLAZE 6.8K JA 1/16W	Q2101	405 151 5209	TR KRA107M
R1343	401 105 0702	MT-GLAZE 100K JA 1/16W	Q2102	405 143 0007	TR KRC107M
R1453	401 105 3307	MT-GLAZE 2.7K JA 1/16W	Q2103	405 035 8609	TR 2SK544-F
R1454	401 105 6506	MT-GLAZE 680 JA 1/16W	Q2105	405 016 0806	TR 2SC2839-E
R1455	401 105 8203	MT-GLAZE 68K JA 1/16W	or	405 151 4103	TR KTC3193-Y
R1456	401 105 1006	MT-GLAZE 1.2K JA 1/16W	or	405 151 4202	TR KTC3193-O
R1462	401 105 5905	MT-GLAZE 560 JA 1/16W	Q2106	405 151 4103	TR KTC3193-Y
R1463	401 105 5905	MT-GLAZE 560 JA 1/16W	or	405 151 4202	TR KTC3193-O
R1464	401 105 0504	MT-GLAZE 1K JA 1/16W	or	405 016 0806	TR 2SC2839-E
R1465	401 105 5905	MT-GLAZE 560 JA 1/16W	Q2107	405 151 4202	TR KTC3193-O
R1472	401 105 5301	MT-GLAZE 4.7K JA 1/16W	or	405 151 4103	TR KTC3193-Y
R1473	401 105 0702	MT-GLAZE 100K JA 1/16W	or	405 016 0806	TR 2SC2839-E
R1475	401 105 5905	MT-GLAZE 560 JA 1/16W	Q2108	405 016 0806	TR 2SC2839-E
R1476	401 105 0504	MT-GLAZE 1K JA 1/16W	or	405 151 4103	TR KTC3193-Y
R1480	401 105 5905	MT-GLAZE 560 JA 1/16W	or	405 151 4202	TR KTC3193-O
R1498	401 105 0405	MT-GLAZE 100 JA 1/16W	Q2109	405 033 6805	TR 2SD1468S-S
R1499	401 105 0405	MT-GLAZE 100 JA 1/16W	or	405 033 6706	TR 2SD1468S-R
R1501	401 105 6605	MT-GLAZE 6.8K JA 1/16W	or	405 021 0600	TR 2SD1012-G-SPA
R1502	401 105 0603	MT-GLAZE 10K JA 1/16W	or	405 021 0204	TR 2SD1012-F-SPA
R1503	401 105 1501	MT-GLAZE 1.5K JA 1/16W	or	405 151 4400	TR KTD1303
R1771	401 105 0504	MT-GLAZE 1K JA 1/16W	Q2110	405 143 0007	TR KRC107M
R1773	401 105 0702	MT-GLAZE 100K JA 1/16W	Q2111	405 151 4301	TR KTC3195-Y
R1781	401 105 0504	MT-GLAZE 1K JA 1/16W	or	405 151 4806	TR KTC3195-O
R1783	401 105 0702	MT-GLAZE 100K JA 1/16W	Q2201	405 151 5209	TR KRA107M
X1451	614 231 2667	RESONATOR	Q2202	405 151 5209	TR KRA107M
TUNER P.W.BOARD ASSY (for UK)			R2002	401 105 0702	MT-GLAZE 100K JA 1/16W
REF.NO.	PART NO.	DESCRIPTION	R2003	401 105 0702	MT-GLAZE 100K JA 1/16W
73	614 314 0702	ASSY,PWB TUNER(UK) (Only Initial)	R2004	401 105 0702	MT-GLAZE 100K JA 1/16W
CN201	645 025 4703	TERMINAL,ANTENNA	R2005	401 105 3109	MT-GLAZE 27 JA 1/16W
or	645 038 7715	TERMINAL	R2006	401 105 1907	MT-GLAZE 180 JA 1/16W
CN202	645 012 5195	SOCKET,FPC 15P	R2007	401 105 1907	MT-GLAZE 180 JA 1/16W
CN203	614 221 8273	TERMINAL	R2008	401 105 3000	MT-GLAZE 220K JA 1/16W
CT211	645 032 5663	TRIMMER,7PF	R2009	401 105 5905	MT-GLAZE 560 JA 1/16W
CT212	645 032 5236	TRIMMER,18PF	R2100	401 105 1402	MT-GLAZE 150 JA 1/16W
D2001	407 157 8109	VARACTOR DI SVC211-B	R2101	401 105 4601	MT-GLAZE 3.9K JA 1/16W
D2002	407 157 8109	VARACTOR DI SVC211-B	R2102	401 105 3109	MT-GLAZE 27 JA 1/16W
D2004	407 012 4406	DIODE 1SS133	R2103	401 105 4106	MT-GLAZE 3.3K JA 1/16W
D2005	407 012 4406	DIODE 1SS133	R2104	401 105 0603	MT-GLAZE 10K JA 1/16W
D2006	407 007 9904	DIODE GMA01	R2105	401 105 0603	MT-GLAZE 10K JA 1/16W
D2007	407 007 9904	DIODE GMA01	R2106	401 105 3307	MT-GLAZE 2.7K JA 1/16W
D2101	407 012 4406	DIODE 1SS133	R2107	401 105 4106	MT-GLAZE 3.3K JA 1/16W
D2102	407 105 1602	VARACTOR DI SVC342M-V	R2108	401 105 4007	MT-GLAZE 330 JA 1/16W
or	407 105 1305	VARACTOR DI SVC342L-V	R2109	401 105 0702	MT-GLAZE 100K JA 1/16W
D2104	407 099 5303	ZENER DIODE MTZJ5.6B	R2110	401 105 0405	MT-GLAZE 100 JA 1/16W
IC201	409 292 5807	IC TA8176SN	R2112	401 105 3208	MT-GLAZE 270 JA 1/16W
IC211	409 474 3201	IC LA1844ML	R2113	401 105 0603	MT-GLAZE 10K JA 1/16W
L2000	645 041 1328	INDUCTOR,AIR —	R2115	401 105 0504	MT-GLAZE 1K JA 1/16W
L2001	614 034 5988	VHF COIL 1AV4L20B0210N	R2116	401 105 2904	MT-GLAZE 22K JA 1/16W
			R2117	401 105 7602	MT-GLAZE 820K JA 1/16W
			R2119	401 105 0702	MT-GLAZE 100K JA 1/16W

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
R2120	401 105 0504	MT-GLAZE 1K JA 1/16W
R2121	401 105 8104	MT-GLAZE 56K JA 1/16W
R2122	401 105 0702	MT-GLAZE 100K JA 1/16W
R2123	401 105 5509	MT-GLAZE 470K JA 1/16W
R2124	401 105 8005	MT-GLAZE 1M JA 1/16W
R2125	401 105 2904	MT-GLAZE 22K JA 1/16W
R2126	401 105 5202	MT-GLAZE 470 JA 1/16W
R2127	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2128	401 105 4304	MT-GLAZE 330K JA 1/16W
R2129	401 105 2904	MT-GLAZE 22K JA 1/16W
R2130	401 105 1204	MT-GLAZE 120K JA 1/16W
R2131	401 105 8104	MT-GLAZE 56K JA 1/16W
R2201	401 105 0405	MT-GLAZE 100 JA 1/16W
R2203	401 105 5202	MT-GLAZE 470 JA 1/16W
R2205	401 105 8203	MT-GLAZE 68K JA 1/16W
R2206	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2210	401 105 0504	MT-GLAZE 1K JA 1/16W
R2301	401 105 8203	MT-GLAZE 68K JA 1/16W
R2302	401 105 2904	MT-GLAZE 22K JA 1/16W
R2303	401 105 2102	MT-GLAZE 18K JA 1/16W
R2701	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2801	401 105 1501	MT-GLAZE 1.5K JA 1/16W
S2001	645 023 5795	SWITCH,LEVER
SH201	614 256 3052	SHIELD
T2001	645 043 0213	FILTER,450KHZ
T2002	645 040 9981	TRANS,IF 10.7MHZ
or	645 039 9923	TRANS,IF 10.7MHZ
XF201	614 252 1045	FILTER,LC
XF215	645 041 9324	CERAMIC FILTER 450KHZ
XF221	645 010 7665	CERAMIC FILTER 10.70MHZ
XF222	645 010 7665	CERAMIC FILTER 10.70MHZ

TUNER P.W.BOARD ASSY (for XE)

REF.NO.	PART NO.	DESCRIPTION
73	614 316 3428	ASSY,PWB TU(XE) (Only Initial)
CN201	645 032 6394	TERMINAL
or	614 255 5750	TERMINAL
CN202	645 012 5195	SOCKET,FPC 15P
CT211	645 032 5663	TRIMMER,7PF
D2004	407 012 4406	DIODE 1SS133
D2005	407 012 4406	DIODE 1SS133
D2006	407 012 4406	DIODE 1SS133
D2007	407 012 4406	DIODE 1SS133
D2101	407 012 4406	DIODE 1SS133
D2102	407 105 1305	VARACTOR DI SVC342L-V
or	407 105 1602	VARACTOR DI SVC342M-V
D2104	407 099 5303	ZENER DIODE MTZJ5.6B
D2108	407 099 5204	ZENER DIODE MTZJ5.1B
IC211	409 474 3201	IC LA1844ML
L2005	645 002 1459	INDUCTOR,22U K
L2006	645 002 1459	INDUCTOR,22U K
L2007	645 002 1459	INDUCTOR,22U K
L2010	645 037 2858	CORE,PIPE
L2011	645 037 2858	CORE,PIPE
L2102	645 037 2377	TRANS,ANT,796KHZ
L2204	645 040 2739	TRANS,OSC,796KHZ
Q2001	405 151 4301	TR KTC3195-Y
or	405 151 4806	TR KTC3195-O
Q2003	405 011 8609	TR 2SC1740S-S
or	405 011 8500	TR 2SC1740S-R
or	405 143 8706	TR KTC3199-GR
or	405 017 9600	TR 2SC3330-T
or	405 017 9709	TR 2SC3330-U
Q2101	405 151 5209	TR KRA107M
Q2102	405 143 0007	TR KRC107M
Q2110	405 143 0007	TR KRC107M
Q2111	405 151 4806	TR KTC3195-O
or	405 151 4301	TR KTC3195-Y

REF.NO.	PART NO.	DESCRIPTION
Q2201	405 151 5209	TR KRA107M
R2000	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2001	401 105 1907	MT-GLAZE 180 JA 1/16W
R2002	401 105 3000	MT-GLAZE 220K JA 1/16W
R2004	401 105 5905	MT-GLAZE 560 JA 1/16W
R2005	401 105 6506	MT-GLAZE 680 JA 1/16W
R2006	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2007	401 105 0603	MT-GLAZE 10K JA 1/16W
R2100	401 105 5202	MT-GLAZE 470 JA 1/16W
R2101	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R2104	401 105 0603	MT-GLAZE 10K JA 1/16W
R2105	401 105 0603	MT-GLAZE 10K JA 1/16W
R2106	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2107	401 105 0603	MT-GLAZE 10K JA 1/16W
R2113	401 105 0603	MT-GLAZE 10K JA 1/16W
R2117	401 105 7602	MT-GLAZE 820K JA 1/16W
R2119	401 105 2904	MT-GLAZE 22K JA 1/16W
R2126	401 105 1204	MT-GLAZE 120K JA 1/16W
R2127	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2128	401 105 4304	MT-GLAZE 330K JA 1/16W
R2129	401 105 2904	MT-GLAZE 22K JA 1/16W
R2131	401 105 8104	MT-GLAZE 56K JA 1/16W
R2201	401 105 0405	MT-GLAZE 100 JA 1/16W
R2205	401 105 8203	MT-GLAZE 68K JA 1/16W
R2206	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2210	401 105 0504	MT-GLAZE 1K JA 1/16W
R2301	401 105 8203	MT-GLAZE 68K JA 1/16W
R2302	401 105 2904	MT-GLAZE 22K JA 1/16W
R2303	401 105 2102	MT-GLAZE 18K JA 1/16W
R2701	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2801	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R2900	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
S2001	645 023 5795	SWITCH,LEVER
SH202	614 310 5404	SHIELD,ANTENA
SH203	614 314 1570	SHIELD,PLATE
T2001	645 043 0213	FILTER,450KHZ
T2002	645 039 9923	TRANS,IF 10.7MHZ
or	645 040 9981	TRANS,IF 10.7MHZ
TU201	645 043 6697	TUNER,FM
XF215	645 041 9324	CERAMIC FILTER 450KHZ
XF221	645 010 7665	CERAMIC FILTER 10.70MHZ
XF222	645 010 7665	CERAMIC FILTER 10.70MHZ

AMPLIFIER P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	614 314 0672	ASSY,PWB AMP (UK)(Only Initial)
74	614 316 3404	ASSY,PWB AMP (XE)(Only Initial)
C4714	403 058 4608	POLYESTER 0.15U J 50V
C4716	403 313 4602	ELECT 1000U M 16V
or	403 350 8403	ELECT 1000U M 16V
or	403 366 5205	ELECT 1000U M 16V
C4814	403 058 4608	POLYESTER 0.15U J 50V
C4816	403 313 4602	ELECT 1000U M 16V
or	403 350 8403	ELECT 1000U M 16V
or	403 366 5205	ELECT 1000U M 16V
C4913	403 350 9301	ELECT 3300U M 25V
or	403 366 5601	ELECT 3300U M 25V
or	403 329 5907	ELECT 3300U M 25V
C4918	403 056 7502	POLYESTER 1000P J 50V
CN401	645 006 1875	PLUG,2P,SPEAKER
CN402	645 006 1875	PLUG,2P,SPEAKER
CN405	614 310 2755	PLUG,4P
or	645 004 2904	PLUG,4P
CN406	614 310 2458	PLUG,4P
or	645 005 8110	PLUG,4P
CN421	645 011 6384	JACK,PHONE D3.6,HEADPHONE
CN422	645 043 8905	JACK,RCA

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
CN441	614 310 2731	PLUG,2P,POWER	or	405 011 8609	TR 2SC1740S-S
or	645 004 2881	PLUG,2P,POWER	or	405 017 9600	TR 2SC3330-T
CN490	645 012 2736	SOCKET,DIP 8P	or	405 017 9709	TR 2SC3330-U
CN491	645 012 5096	SOCKET,FPC 12P	Q4905	405 143 8706	TR KTC3199-GR
CN492	614 314 4809	ASSY,WIRE	or	405 011 8500	TR 2SC1740S-R
or	614 309 8812	ASSY,WIRE	or	405 011 8609	TR 2SC1740S-S
D4102	407 012 4406	DIODE 1SS133	or	405 017 9600	TR 2SC3330-T
D4951	△ 407 099 6003	ZENER DIODE MTZJ9.1B	or	405 017 9709	TR 2SC3330-U
D4953	407 012 4406	DIODE 1SS133	Q4951	△ 405 138 6403	TR KTD2058Y
D4961	407 012 4406	DIODE 1SS133	or	△ 405 095 1602	TR 2SD2061-E
D4962	407 012 4406	DIODE 1SS133	or	△ 405 095 1701	TR 2SD2061-F
D4963	407 012 4406	DIODE 1SS133	R4104	401 105 0702	MT-GLAZE 100K JA 1/16W
D4964	407 012 4406	DIODE 1SS133	R4105	401 105 0603	MT-GLAZE 10K JA 1/16W
D4980	△ 407 098 3300	DIODE RL153-BF-S2	R4106	401 105 0603	MT-GLAZE 10K JA 1/16W
D4981	△ 407 098 3300	DIODE RL153-BF-S2	R4107	401 105 5400	MT-GLAZE 47K JA 1/16W
D4982	△ 407 098 3300	DIODE RL153-BF-S2	R4703	401 105 5806	MT-GLAZE 56 JA 1/16W
D4983	△ 407 098 3300	DIODE RL153-BF-S2	R4704	401 105 4601	MT-GLAZE 3.9K JA 1/16W
FCL41	△ 645 006 4760	HOLDER,FUSE	R4705	401 105 2102	MT-GLAZE 18K JA 1/16W
or	△ 645 031 7903	HOLDER,FUSE	R4708	401 105 2102	MT-GLAZE 18K JA 1/16W
FCL42	△ 645 006 4760	HOLDER,FUSE	R4709	401 105 0504	MT-GLAZE 1K JA 1/16W
or	△ 645 031 7903	HOLDER,FUSE	R4710	401 105 4601	MT-GLAZE 3.9K JA 1/16W
HS401	614 315 2873	HEAT SINK	R4716	401 105 0504	MT-GLAZE 1K JA 1/16W
IC410	409 384 3506	IC BA3314F	R4717	401 105 1600	MT-GLAZE 15K JA 1/16W
IC411	409 390 1107	IC LC75392	R4718	401 105 1402	MT-GLAZE 150 JA 1/16W
IC412	△ 409 295 7402	IC TA8229K	R4730	401 105 2904	MT-GLAZE 22K JA 1/16W
IC415	409 469 6200	IC MM1453XF	R4731	401 105 1204	MT-GLAZE 120K JA 1/16W
L4781	645 006 9864	INDUCTOR,80U	R4732	401 105 4205	MT-GLAZE 33K JA 1/16W
L4881	645 006 9864	INDUCTOR,80U	R4733	401 105 4106	MT-GLAZE 3.3K JA 1/16W
L4902	645 031 5893	TRANS,OSC,85KHZ,O.S.C	R4734	401 105 5301	MT-GLAZE 4.7K JA 1/16W
PR495	△ 645 042 2621	PROTECTOR,1.5A 125V	R4735	401 105 4601	MT-GLAZE 3.9K JA 1/16W
PR496	△ 645 042 2621	PROTECTOR,1.5A 125V	R4736	401 105 5400	MT-GLAZE 47K JA 1/16W
Q4103	405 000 0508	TR DTA114ES	R4737	401 105 2102	MT-GLAZE 18K JA 1/16W
or	405 110 5400	TR KRA102M-A	R4738	401 105 0504	MT-GLAZE 1K JA 1/16W
Q4104	405 109 9204	TR KRC102M-A	R4739	401 105 5400	MT-GLAZE 47K JA 1/16W
or	405 000 3103	TR DTC114ES	R4740	401 105 2904	MT-GLAZE 22K JA 1/16W
Q4106	405 000 3103	TR DTC114ES	R4741	401 105 3406	MT-GLAZE 27K JA 1/16W
or	405 109 9204	TR KRC102M-A	R4742	401 105 0603	MT-GLAZE 10K JA 1/16W
Q4730	405 143 6504	TR KTA1267-GR	R4743	401 105 0702	MT-GLAZE 100K JA 1/16W
or	405 004 4601	TR 2SA608-F-SPA	R4745	401 105 1105	MT-GLAZE 12K JA 1/16W
or	405 004 5103	TR 2SA608-G-SPA	R4746	401 105 7503	MT-GLAZE 82K JA 1/16W
or	405 006 1806	TR 2SA933S-R	R4747	401 105 8203	MT-GLAZE 68K JA 1/16W
or	405 006 1905	TR 2SA933S-S	R4748	401 105 2904	MT-GLAZE 22K JA 1/16W
Q4751	405 033 6706	TR 2SD1468S-R	R4749	401 105 2904	MT-GLAZE 22K JA 1/16W
or	405 151 4400	TR KTD1303	R4750	401 105 2904	MT-GLAZE 22K JA 1/16W
or	405 021 0204	TR 2SD1012-F-SPA	R4751	401 105 2904	MT-GLAZE 22K JA 1/16W
or	405 021 0600	TR 2SD1012-G-SPA	R4752	△ 402 071 1304	FUSIBLE RES 2.2 JA 1/4W
or	405 033 6805	TR 2SD1468S-S	R4753	401 105 2201	MT-GLAZE 180K JA 1/16W
Q4830	405 004 4601	TR 2SA608-F-SPA	R4756	401 105 5301	MT-GLAZE 4.7K JA 1/16W
or	405 004 5103	TR 2SA608-G-SPA	R4760	401 105 0603	MT-GLAZE 10K JA 1/16W
or	405 006 1806	TR 2SA933S-R	R4761	401 105 0504	MT-GLAZE 1K JA 1/16W
or	405 006 1905	TR 2SA933S-S	R4770	401 105 5400	MT-GLAZE 47K JA 1/16W
or	405 143 6504	TR KTA1267-GR	R4781	401 105 1402	MT-GLAZE 150 JA 1/16W
Q4851	405 151 4400	TR KTD1303	R4782	401 105 6001	MT-GLAZE 5.6K JA 1/16W
or	405 021 0204	TR 2SD1012-F-SPA	R4803	401 105 5806	MT-GLAZE 56 JA 1/16W
or	405 021 0600	TR 2SD1012-G-SPA	R4804	401 105 4601	MT-GLAZE 3.9K JA 1/16W
or	405 033 6706	TR 2SD1468S-R	R4805	401 105 2102	MT-GLAZE 18K JA 1/16W
or	405 033 6805	TR 2SD1468S-S	R4808	401 105 2102	MT-GLAZE 18K JA 1/16W
Q4902	405 011 8609	TR 2SC1740S-S	R4809	401 105 0504	MT-GLAZE 1K JA 1/16W
or	405 017 9600	TR 2SC3330-T	R4810	401 105 4601	MT-GLAZE 3.9K JA 1/16W
or	405 017 9709	TR 2SC3330-U	R4816	401 105 0504	MT-GLAZE 1K JA 1/16W
or	405 011 8500	TR 2SC1740S-R	R4817	401 105 1600	MT-GLAZE 15K JA 1/16W
or	405 143 8706	TR KTC3199-GR	R4818	401 105 1402	MT-GLAZE 150 JA 1/16W
Q4903	405 151 4400	TR KTD1303	R4830	401 105 2904	MT-GLAZE 22K JA 1/16W
or	405 021 0204	TR 2SD1012-F-SPA	R4831	401 105 1204	MT-GLAZE 120K JA 1/16W
or	405 021 0600	TR 2SD1012-G-SPA	R4832	401 105 4205	MT-GLAZE 33K JA 1/16W
or	405 033 6706	TR 2SD1468S-R	R4833	401 105 4106	MT-GLAZE 3.3K JA 1/16W
or	405 033 6805	TR 2SD1468S-S	R4834	401 105 5301	MT-GLAZE 4.7K JA 1/16W
Q4904	405 143 8706	TR KTC3199-GR	R4835	401 105 4601	MT-GLAZE 3.9K JA 1/16W
or	405 011 8500	TR 2SC1740S-R			

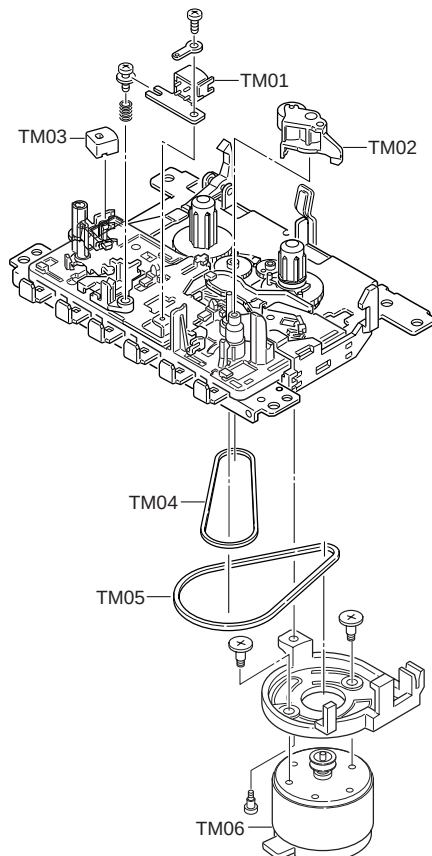
REF.NO.	PART NO.	DESCRIPTION
R4836	401 105 5400	MT-GLAZE 47K JA 1/16W
R4837	401 105 2102	MT-GLAZE 18K JA 1/16W
R4838	401 105 0504	MT-GLAZE 1K JA 1/16W
R4839	401 105 5400	MT-GLAZE 47K JA 1/16W
R4840	401 105 2904	MT-GLAZE 22K JA 1/16W
R4841	401 105 3406	MT-GLAZE 27K JA 1/16W
R4842	401 105 0603	MT-GLAZE 10K JA 1/16W
R4843	401 105 0702	MT-GLAZE 100K JA 1/16W
R4845	401 105 1105	MT-GLAZE 12K JA 1/16W
R4846	401 105 7503	MT-GLAZE 82K JA 1/16W
R4847	401 105 8203	MT-GLAZE 68K JA 1/16W
R4848	401 105 2904	MT-GLAZE 22K JA 1/16W
R4849	401 105 2904	MT-GLAZE 22K JA 1/16W
R4850	401 105 2904	MT-GLAZE 22K JA 1/16W
R4851	401 105 2904	MT-GLAZE 22K JA 1/16W
R4852	△ 402 071 1304	FUSIBLE RES 2.2 JA 1/4W
R4853	401 105 2201	MT-GLAZE 180K JA 1/16W
R4856	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4860	401 105 0603	MT-GLAZE 10K JA 1/16W
R4861	401 105 0504	MT-GLAZE 1K JA 1/16W
R4870	401 105 5400	MT-GLAZE 47K JA 1/16W
R4881	401 105 1402	MT-GLAZE 150 JA 1/16W
R4882	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R4883	401 105 0504	MT-GLAZE 1K JA 1/16W
R4901	401 113 9407	MT-GLAZE 510K JA 1/16W
R4902	401 105 0603	MT-GLAZE 10K JA 1/16W
R4905	401 105 0405	MT-GLAZE 100 JA 1/16W
R4910	401 105 0603	MT-GLAZE 10K JA 1/16W
R4911	401 105 0801	MT-GLAZE 12 JA 1/16W
R4912	401 105 4007	MT-GLAZE 330 JA 1/16W
R4914	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R4920	401 105 2102	MT-GLAZE 18K JA 1/16W

REF.NO.	PART NO.	DESCRIPTION
R4921	401 105 2102	MT-GLAZE 18K JA 1/16W
R4922	401 105 1600	MT-GLAZE 15K JA 1/16W
R4923	401 105 0603	MT-GLAZE 10K JA 1/16W
R4927	401 105 0405	MT-GLAZE 100 JA 1/16W
R4928	401 105 4700	MT-GLAZE 39K JA 1/16W
R4929	401 105 1105	MT-GLAZE 12K JA 1/16W
R4930	401 105 0702	MT-GLAZE 100K JA 1/16W
R4938	401 105 0603	MT-GLAZE 10K JA 1/16W
R4941	△ 402 081 0205	FUSIBLE RES 27 JA 1/4W
R4948	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4949	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4961	401 105 0603	MT-GLAZE 10K JA 1/16W
R4962	401 105 0504	MT-GLAZE 1K JA 1/16W
R4971	401 105 0405	MT-GLAZE 100 JA 1/16W
R4972	401 105 0504	MT-GLAZE 1K JA 1/16W
R4991	401 105 0603	MT-GLAZE 10K JA 1/16W
S4901	△ 645 009 8871	SWITCH,PUSH 2P-2T,POWERSW
S4950	645 038 7586	SWITCH,PUSH,R/PSW
SA401	411 021 6405	SCR S-TPG BIN 3X8
SA402	411 021 6405	SCR S-TPG BIN 3X8
SH401	614 314 1563	SHIELD, PLATE (XE)

POWER TRANSFORMER P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
75	614 314 0719	ASSY,PWB PT (Only Initial)
CN450	614 020 1215	SOCKET,2P
CN451	614 017 8203	TERMINAL BOARD
CN452	614 017 8203	TERMINAL BOARD
CN453	614 314 4762	ASSY,WIRE
or	614 309 8447	ASSY,WIRE
L4591	△ 645 041 3087	INDUCTOR,180U
or	△ 645 038 6053	INDUCTOR,181U
or	△ 645 017 8061	INDUCTOR,181M

EXPLODED VIEW & PARTS LIST (TAPE MECHANISM)

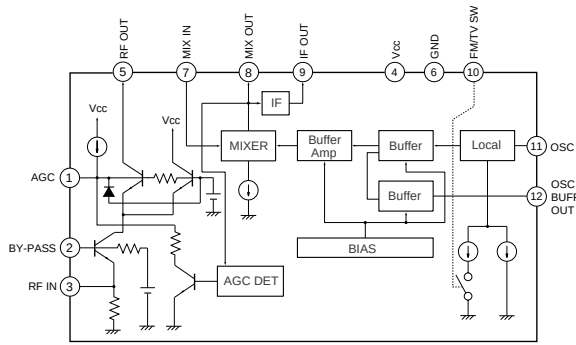


TAPE MECHANISM (TM-DA70TN-SH)

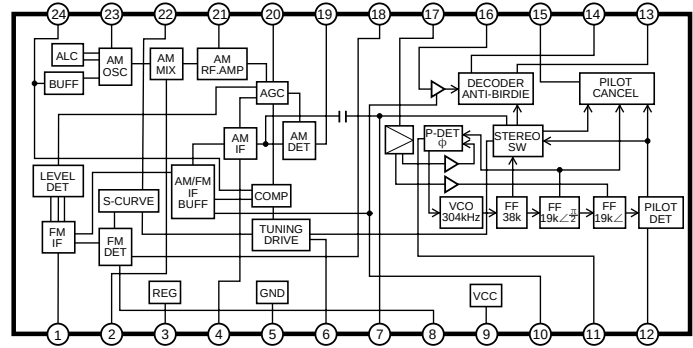
REF.NO.	PART NO.	DESCRIPTION
TM01	614 309 7976	ASSY,MECHA,TM-DA70TN-SH
TM02	645 041 3025	R.P HEAD
TM03	645 009 1612	PINCH ROLLER ARM ASSY
TM04	645 033 8625	E.HEAD 6PA
TM05	645 009 1766	RF BELT
TM06	645 033 3415	MAIN BELT
TM06	614 312 0629	ASSY,MOTOR

IC BLOCK DIAGRAM & DESCRIPTION

IC201 TA8176SN (FM Front End) (UK ONLY)



IC211 LA1844ML (Tuner System)

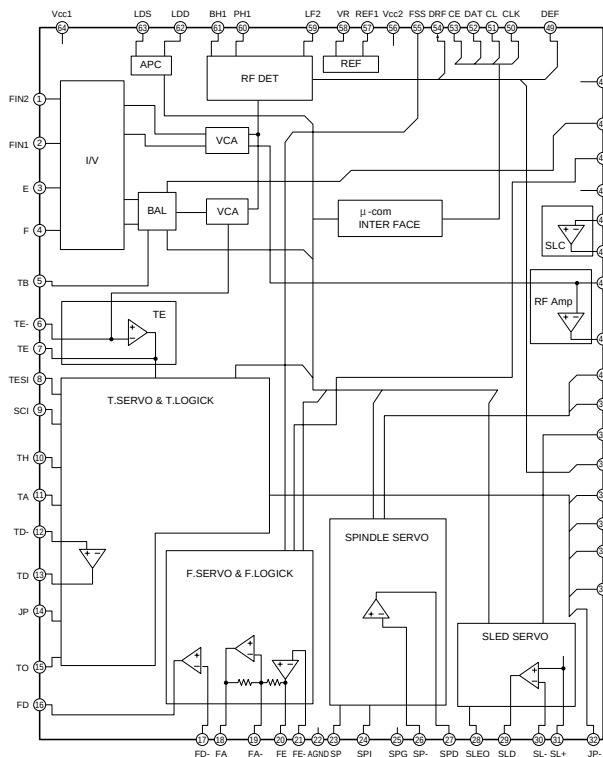


IC601 LC72336-9A15 (Micro Processor)

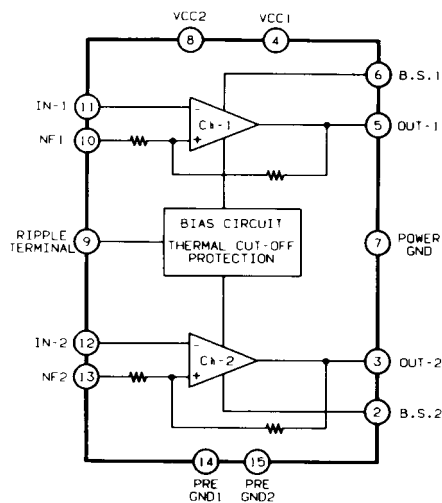
MICOM NAME	PIN NO.	I/O	NAME	FUNCTION
XIN	1	I		Connection terminal of crystal oscillation (4.5MHz)
TEST2	2	I		GND.
PG3(S10)	3	I	CD IDATA	CD MECA Communication Line
PG2(S00)	4	O	CD ODATA	DSP,ASP Control
PG1(SCLK0)	5	O	CD CLOCK	
PG0	6	O	RWC	RWC Output
PC3	7	O	CD RESET	CD DSP RESET Output
PC2	8	O	Non Connection	
PC1	9	O	Non Connection	
PC0	10	O	Non Connection	
PB3	11	O	Non Connection	
PB2	12	O	BASS BOOST	BASS BOOST Control Output
PB1	13	O	Non Connection	
PB0	14	O	Non Connection	
PA3	15	I	KEY IN	TRANSISTOR/DIODE SW SOURCE Input
PA2	16	I	KEY IN	TRANSISTOR/DIODE SW SOURCE Input
PA1	17	I	WRQ	WRQ Input
PA0	18	I	DRF	DRF Input(H-DL CHATTERING TIME 50MS)
PK3	19	I	JOG VR2	JOG VR Input(CHATTERING TIME 3MS)
PK2	20	I	JOG VR1	Phase Input
PK1	21	I	PICK-INSIDE	PICK-INSIDE Input
PK0(INT0)	22	I	REMOCON Input	REMOCON Input
PN3	23	O	B2	BAND Output
PN2	24	O	B1	
PN1	25	O	MUTE	AUDIO MUTE Output
PN0	26	O	MONO	Compalsion MONO Output
PM3	27	I/O	F1	FUNCTION Input/Output(CHATTERING TIME 40MS)
PM2	28	I/O	F2	
PM1	29	I	STIN	STEREO Input(CHATTERING TIME 40MS)
PM0	30	I	SYNC REC	SYNC REC Input(CHATTERING TIME 40MS)
VDD	31	-	POWER	Power supply
PE3	36	I	SD	SD Input
PE2	37	I	Non Connection	
PE1(S18)	38	O	SEGMENT Output	Display SEGMENT Output
PE0(S17)	39	O	SEGMENT Output	
S21~S24	32~35	O	SEGMENT Output	
S1~S16	40~55	O	SEGMENT Output	
COM3	56	O		
COM2	57	O		
COM1	58	O		
Vdd2	59	I		
Vdd1	60	I		
PJ3	61	O	Non Connection	
PJ2	62	O	VOL CE	VOL IC Control Output
PJ1	63	O	VOL DATA	
PJ0	64	O	VOL CLOCK	
AD0	65	I	AD KEY:AD0	Operating KEY Input
AD1	66	I	AD KEY:AD1	
AD2	67	I	AD KEY:AD2	Destination Input
AD3	68	I	AD KEY:AD3	BASS-X LID SW Input(CHATTERING TIME 40MS)
HOLD	69	I	HOLD	BACK UP MODE Control Output
RCTR	70	I	FMIF	
LCSTR	71	I	AMIF	
SNS	72	I	Non Connection	
VDD	73	-	POWER	Power supply
FMOSC	74	O		
AMOSC	75	O		
VSS	76	-		Ground
EO1	77	O		
EO2	78	O	Non Connection	
TEST1	79	-		Ground
XOUT	80	O		Connection terminal of crystal oscillation (4.5MHz)

IC BLOCK DIAGRAM & DESCRIPTION

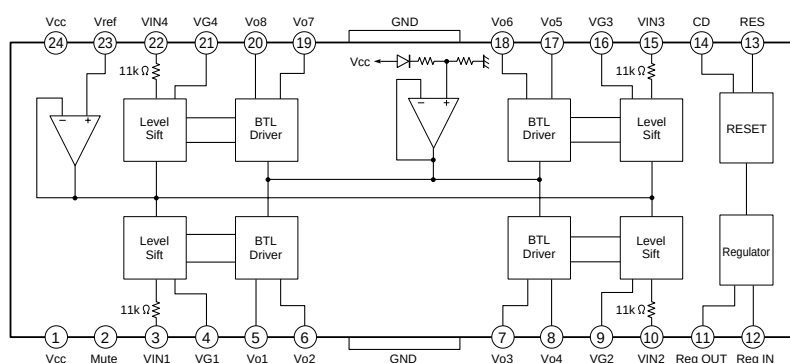
IC101 LA9241M (Servo Signal Processor)



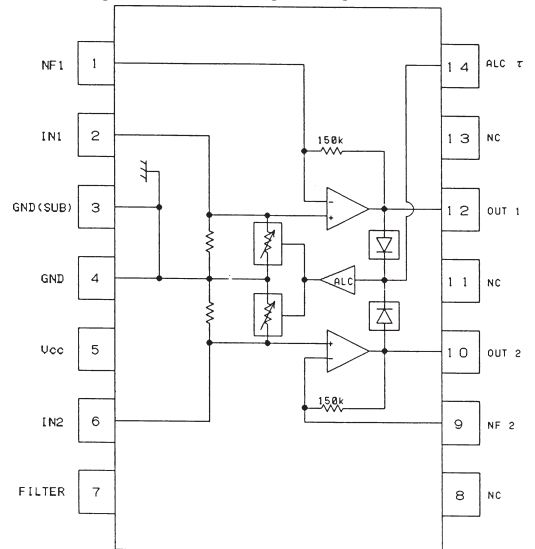
IC412 TA8229K (AF Main Amplifier)



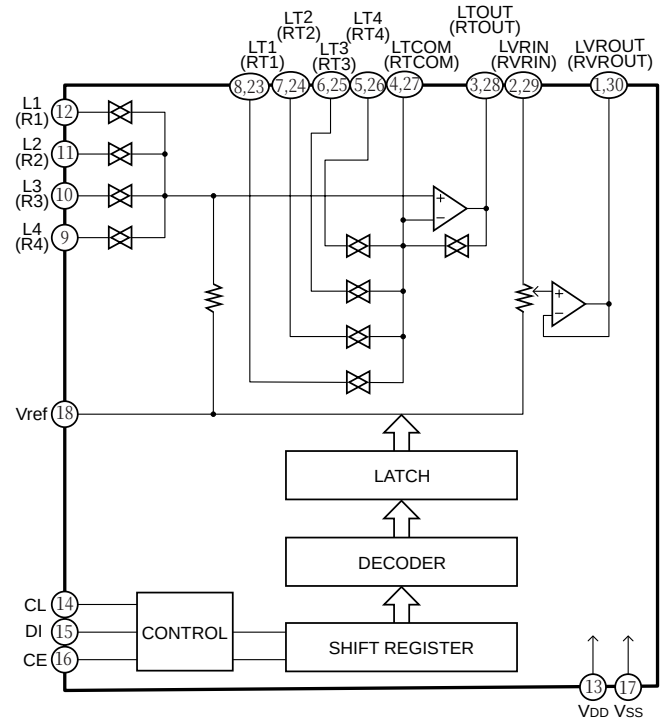
IC103 LA6541 (Pick-up Actuator & Motor Driver)



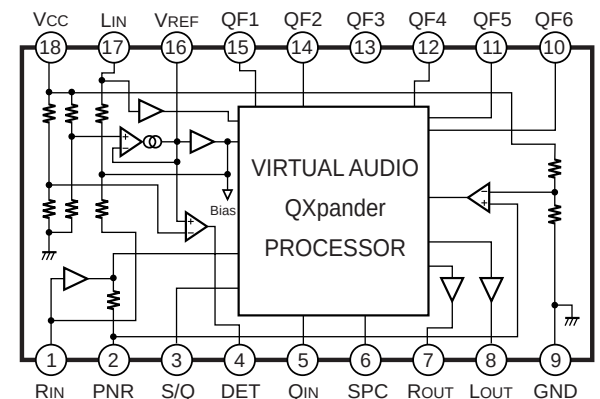
IC410 BA3314 (MD Rec. Amplifier)



IC411 LC75392 (Pick-up Actuator & Motor Driver)



IC415 MM1453XF (Q Xpander with Spread Control)

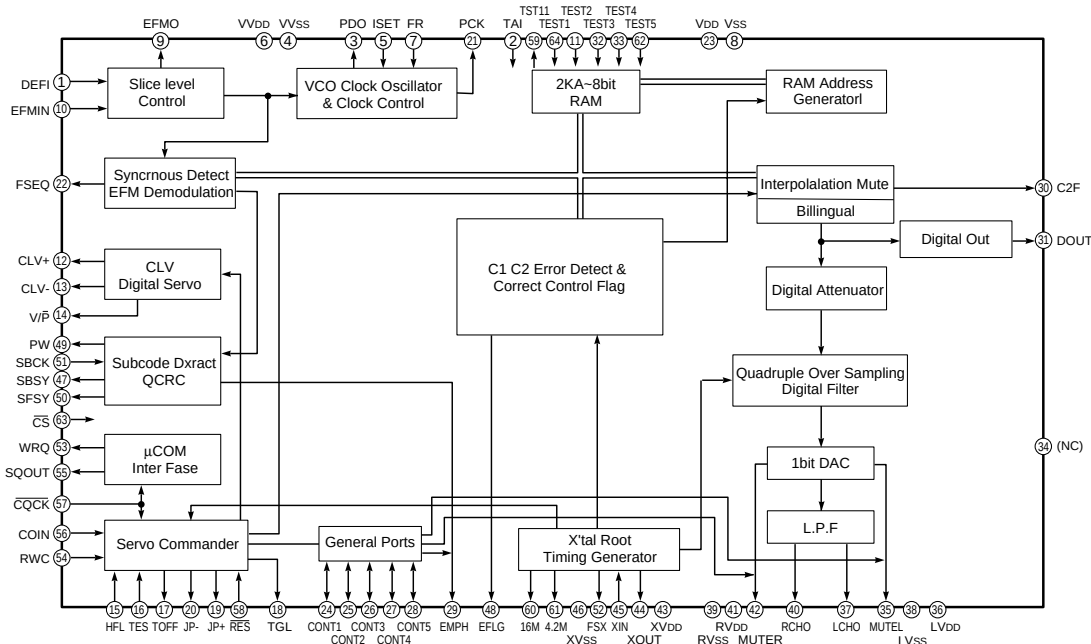


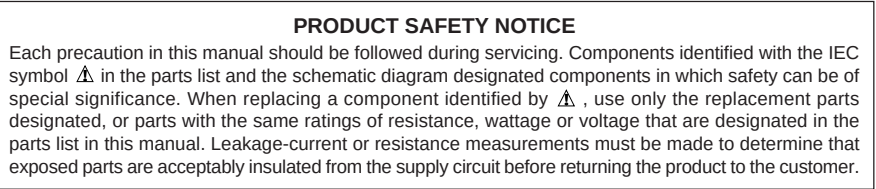
IC BLOCK DIAGRAM & DESCRIPTION

IC102 LC78622NE (Digital Signal Processor)

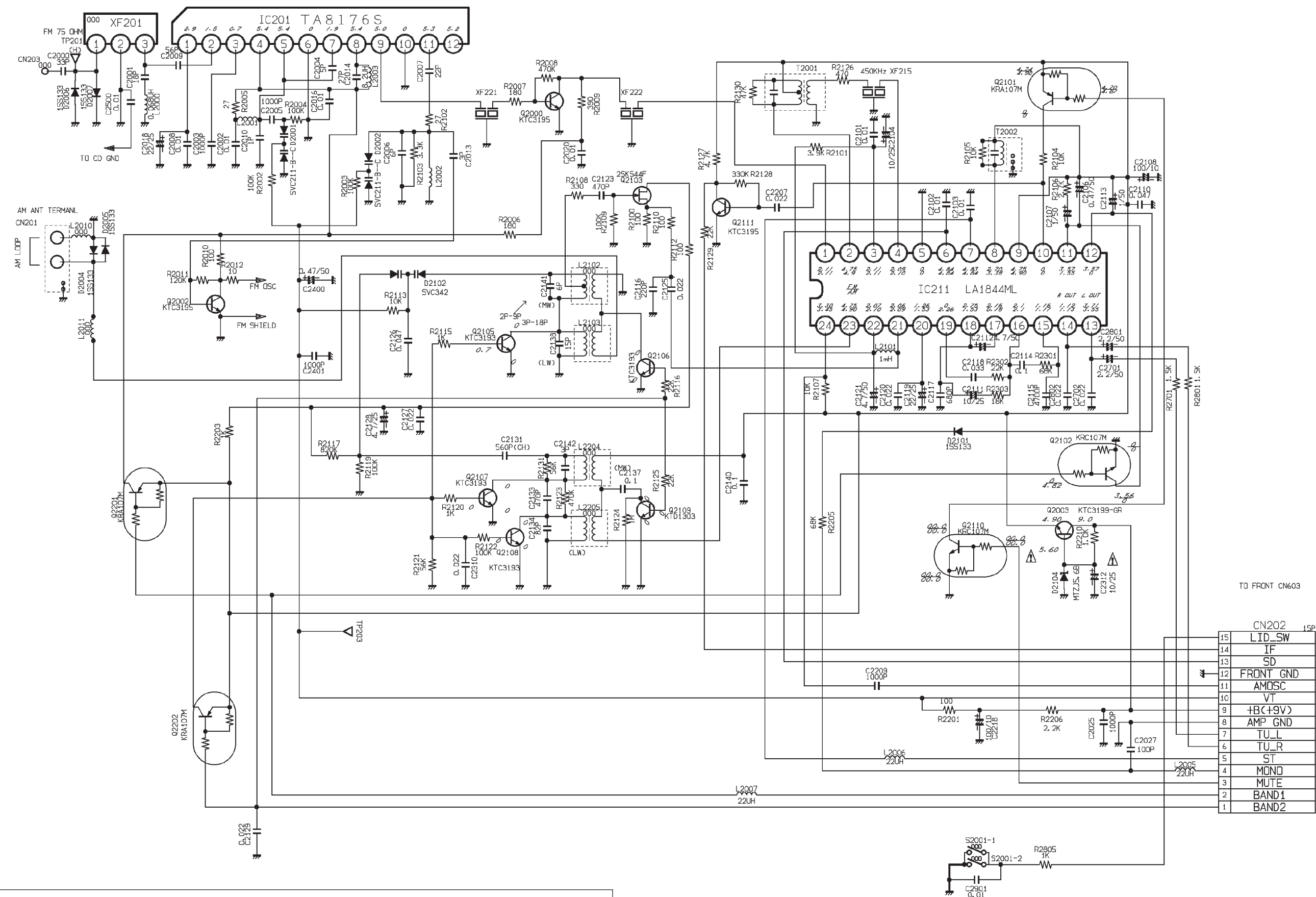
No.	Pin Name	I/O	Function
1	DEFI	I	Input terminal for detect signal of defect
2	TAI	I	Input terminal for test.
3	PDO	O	The phase comparison output terminal for external VCO control.
4	VVSS	-	Ground terminal for built-in VCO
5	ISET	I	Resistance connection terminal for electric current adjustment of PDO output.
6	VVDD	-	Built-in VCO power supply terminal.
7	FR	I	VCO frequency range adjustment.
8	VSS	-	Ground for Digital
9	EFMO	O	EFM signal output terminal for slice level control.
10	EFMIN	I	EFM signal input terminal for slice level control.
11	TEST2	I	TEST pin. Normal time is non connection.
12	CLV+	O	Output terminal for Disc motor control.
13	CLV-	O	Output terminal for Disc motor control.
14	V/P	O	Change of rough servo / phase control Rough servo : "H", Phase control : "L"
15	HFL	I	Input terminal of track search signal.
16	TES	I	Input terminal of tracking error signal.
17	TOFF	O	Output terminal of tracking off.
18	TGL	O	Output terminal for change of tracking gain.
19	JP+	O	Output terminal for tracking jump control.
20	JP-	O	Output terminal for tracking jump control.
21	PCK	O	Clock monitor output terminal for EFM data playback. (4.3218 MHz)
22	FSEQ	O	Output terminal for detect of SYNC signal.
23	DVDD	-	+5V
24	CONT1	I/O	This output can control at serial control from micro processor.
25	CONT2	I/O	
26	CONT3	I/O	
27	CONT4	I/O	
28	CONT5	I/O	
29	EMPH	O	Output terminal of de-emphasis monitor . "H" : de-emphasis
30	C2F	O	Output terminal of C2 flag
31	DOUT	O	Output terminal of digital out

No.	Pin Name	I/O	Function
32	TEST3	I	Test pin.
33	TEST4	I	Test pin.
34	NC	-	Non connection.
35	MUTEL	O	Mute output terminal for L-ch
36	LVDD	-	Power supply for L-ch
37	LCHO	O	Output terminal for L-ch
38	LVSS	-	GND for L-ch
39	RVSS	-	GND for R-ch
40	RCHO	O	Output terminal for R-ch
41	RVDD	-	Power supply for R-ch
42	MUTER	O	Mute output terminal for R-ch
43	XVDD	-	Power supply of crystal oscillation
44	XOUT	O	Connection terminal of crystal oscillation (16.9344MHz)
45	XIN	I	Connection terminal of crystal oscillation (16.9344MHz)
46	XVSS	-	GND of crystal oscillation
47	SBSY	O	Output terminal for synchronizing signal of sub-cord block
48	EFLG	O	Output terminal for correction monitor of C1, C2, Single and Double
49	PW	O	Output terminal for sub-cord of P, Q, R, S, T, U and W
50	SFSY	O	Output terminal for synchronizing signal of sub-cord frame
51	SBCK	I	Input terminal for readout clock of sub-cord
52	FSX	O	Output terminal of Synchronizing signal (7.35kHz)
53	WRQ	O	Output terminal for standby of sub-cord Q output
54	RWC	I	Input terminal of read / write control
55	SQOUT	O	Output terminal of sub-cord Q
56	COIN	I	Input terminal of command from micro processor
57	CQCK	I	Clock input for reading sub-cord from SQOUT
58	RES	I	Reset (turn on : L)
59	TST11	O	Test pin
60	16M	O	16.9344MHz
61	4.2M	O	4.2336MHz
62	TEST5	I	Test pin
63	CS	I	Chip select terminal
64	TEST1	I	Test pin





SCHEMATIC DIAGRAM (TUNER for UK)

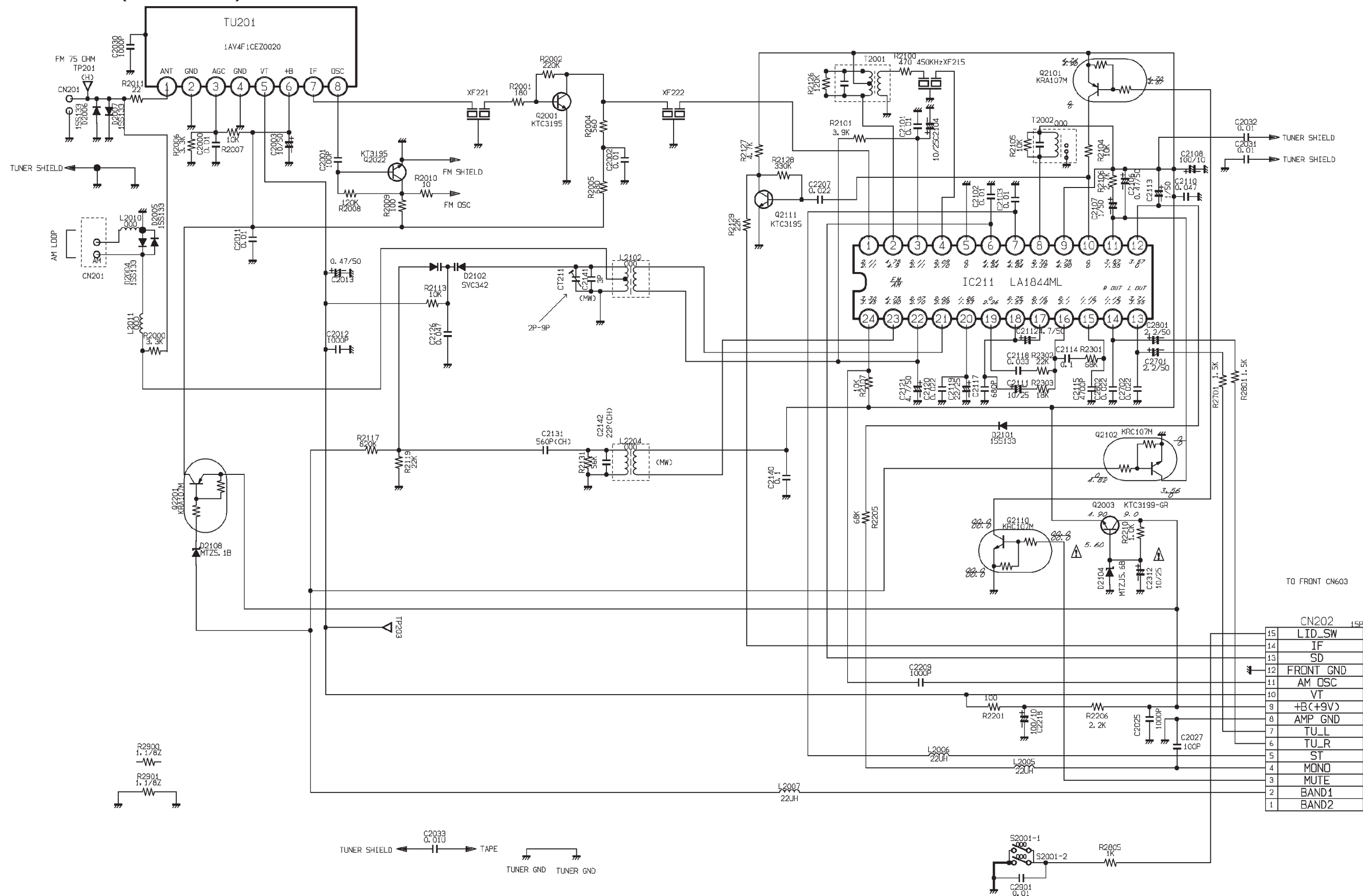


PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  in the parts list and the schematic diagram designated components in which safety can be of special significance. When replacing a component identified by , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

This is a basic schematic diagram.

SCHEMATIC DIAGRAM (TUNER for XE)

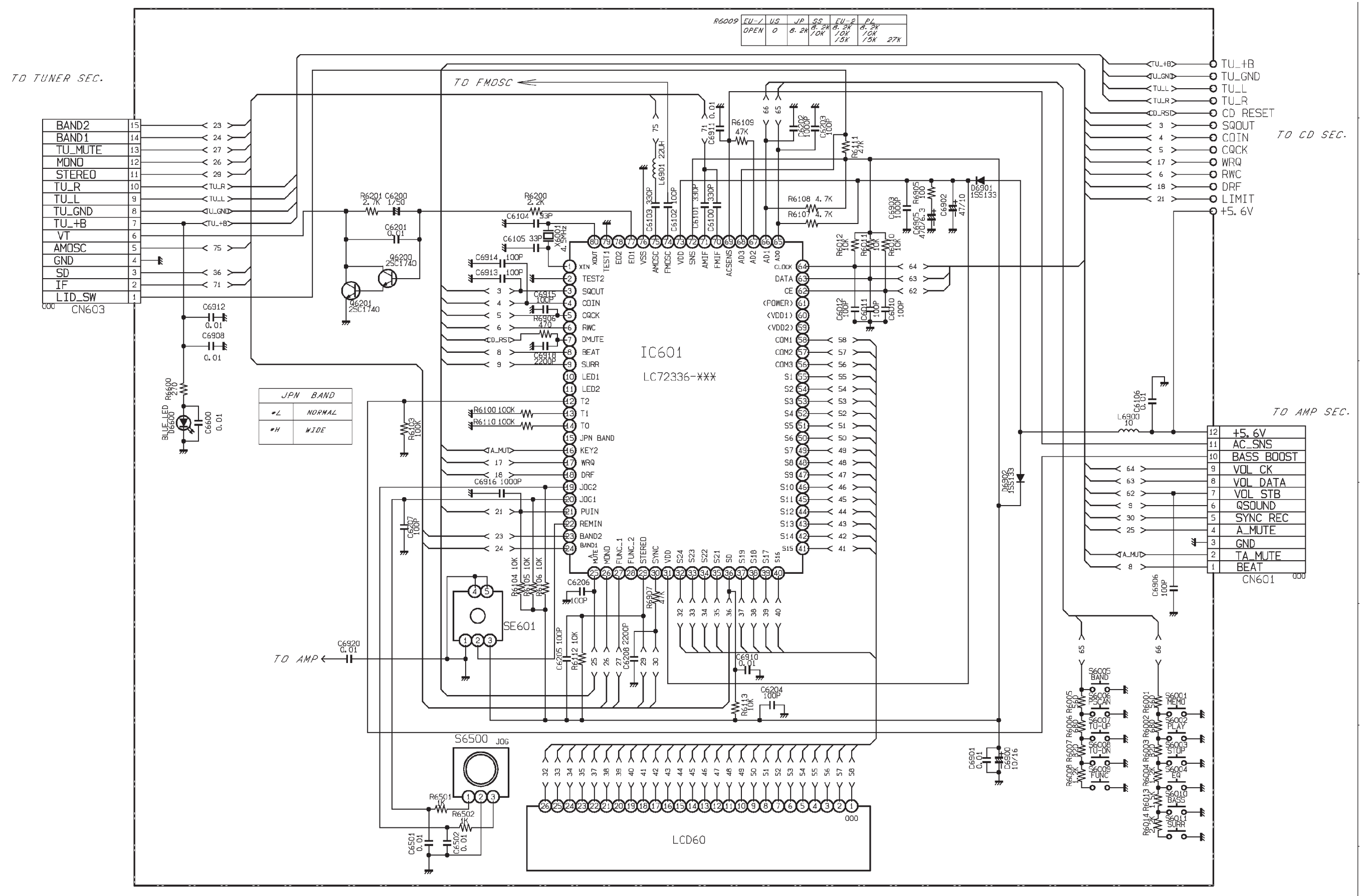


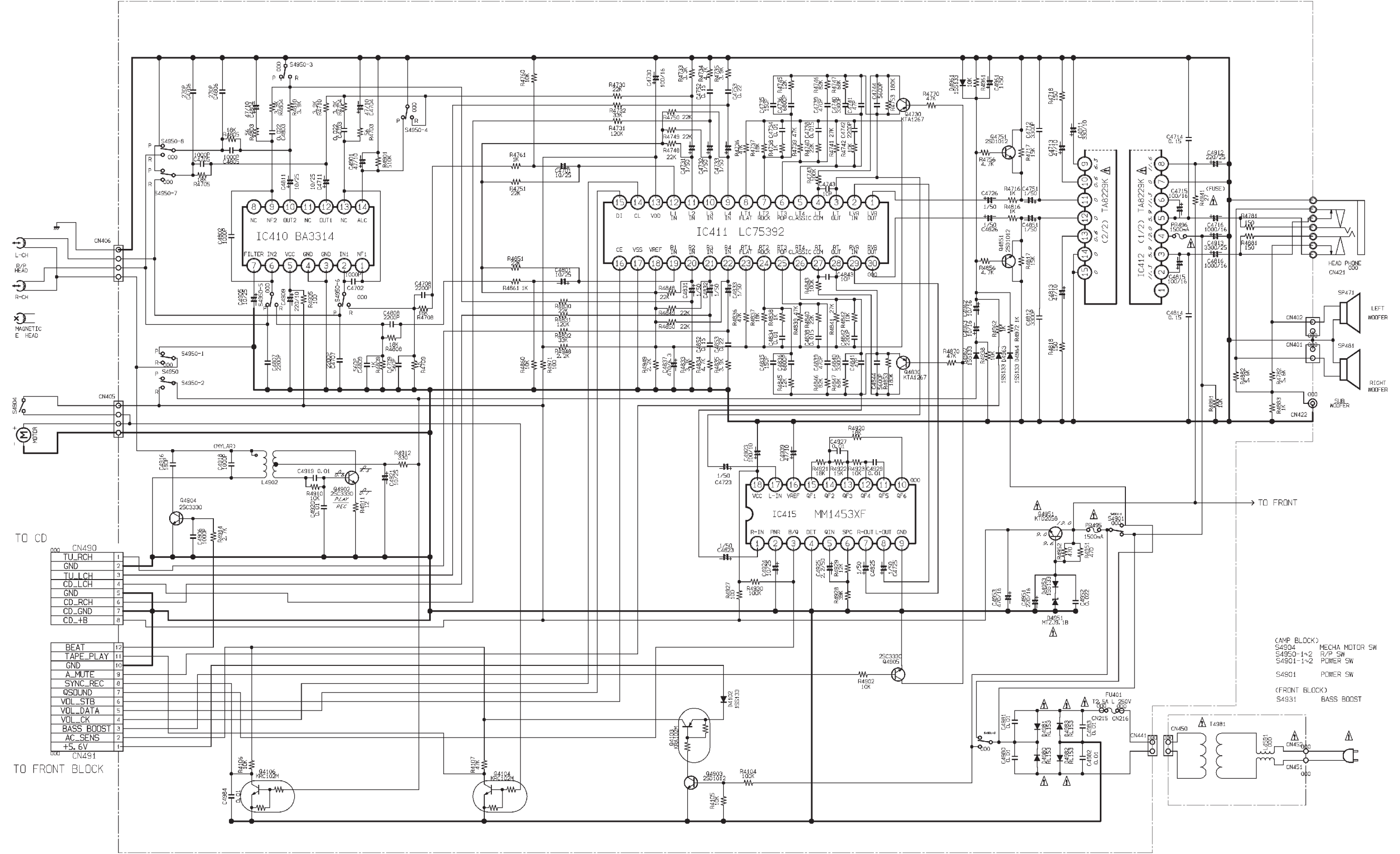
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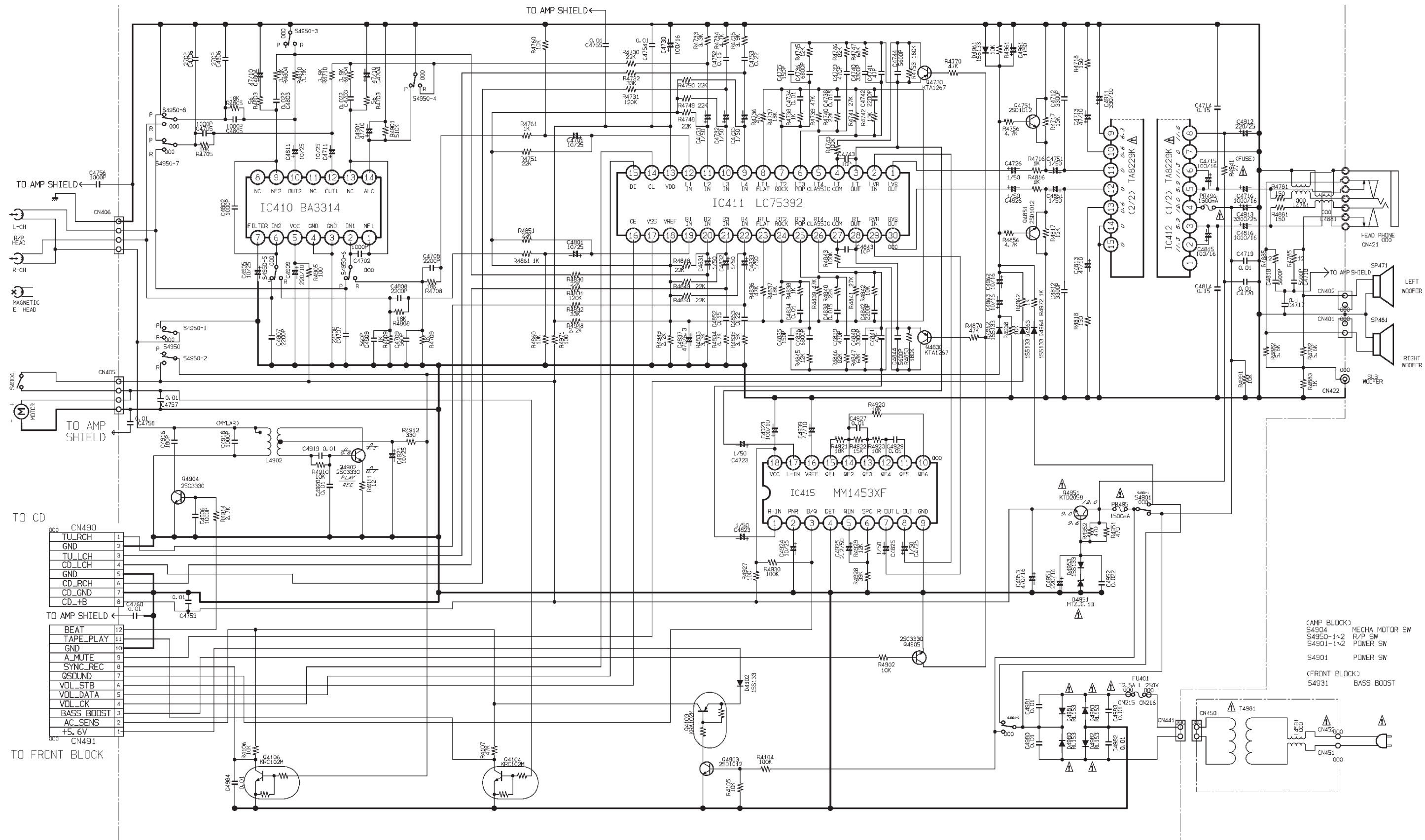


SCHEMATIC DIAGRAM (FRONT for XE)





SCHEMATIC DIAGRAM (AMP for YE)

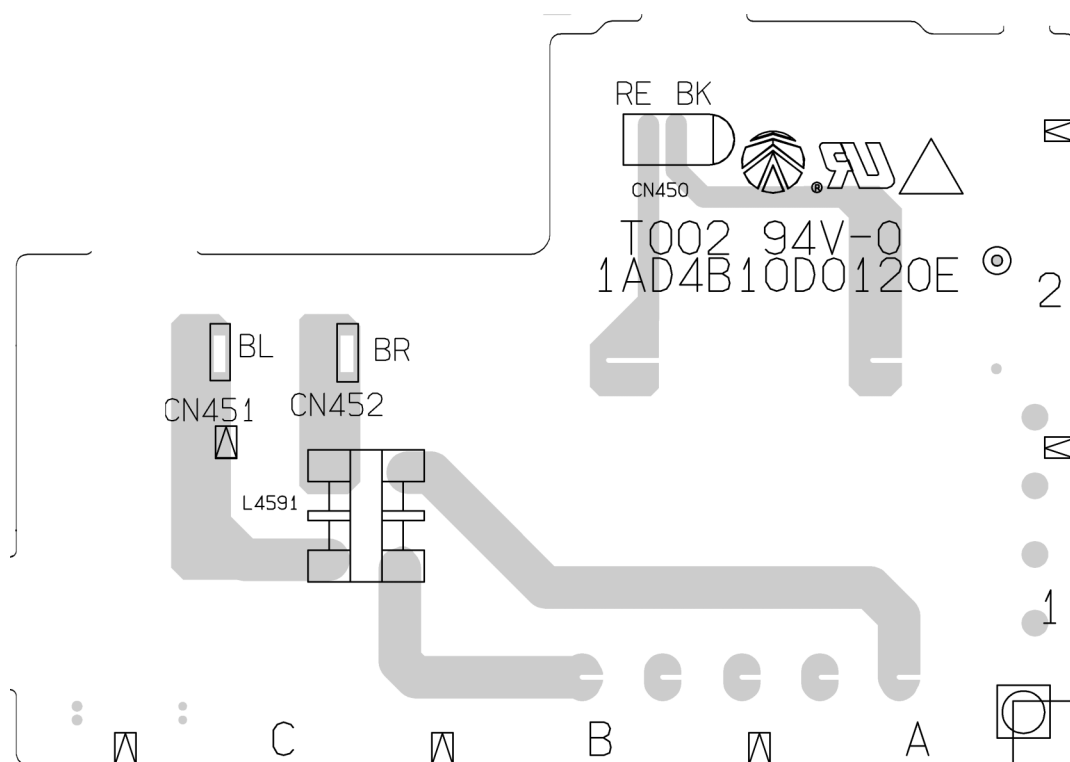


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WIRING DIAGRAM (POWER)

POWER TRANSFORMER P.W.B



VOLTAGE TABLE

IC101 LA9241M

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0
Pin No.	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Voltage	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	0	4.9	4.9	0.05	0	4.9	0	0	1.5	2.4	2.4	2.5
Pin No.	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
Voltage	0	2.5	2.5	0	0.02	0.08	4.9	0.25	0.01	0.02	0.17	4.9	2.5	2.5	0.84	0.84	2.1	4.3	0	4.9		

IC102 LC78622

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	0.02	0	0.16	0	1.6	4.9	0	0	2.5	2.4	0	0	0	4.9	0.02	0.05	4.9	4.9	0	0	4.9	0
Pin No.	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Voltage	4.9	0	0	2.4	2.4	0	0.01	4.9	0.01	0	0	0	4.9	5	1.9	0	0	1.9	5	4.9	4.9	4.9
Pin No.	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
Voltage	0.23	0	0	0	0	0	0	4.9	0	0.01	0	0.92	4.9	4.9	0	0	0	0	0	0		

IC103 LA6541

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	8.5	0.05	2.5	0	3.8	0	3.7	3.7	2.5	2.5	4.9	7.4	5	0	2.5	2.5	3.8	3.7	3.8	3.8	2.5	2.5
Pin No.	23	24																				
Voltage	2.5	8.5																				

IC201 TA8176S (UK only)

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12
Voltage	2.9	1.5	0.7	4.7	4.7	0	1.9	4.7	4.4	0	4.7	4.5

IC211 LA1844M

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	2.3	4.88	2.3	2.3	0	0.02	0.03	4.88	4.88	0.01	3.78	3.9	3.2	3.2	2.2	2.3	2.04	2.74	0.05	2.17	2.4	2.4
Pin No.	23	24																				
Voltage	4.88	3.42																				

IC410 BA3314

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Voltage	0.6	0	0	0	8.8	0	8.8	0.1	0.6	3.9	0	3.9	0.6	0		

IC411 LC75392

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	7.6	1.63	1.65	1.64	1.64	1.63	1.64	1.63	1.64	1.64	1.64	1.64	8.53	0.04	0.04	0.04	0	1.64	1.64	1.64	1.64	1.64
Pin No.	23	24	25	26	27	28	29	30														
Voltage	1.64	1.64	1.64	1.64	1.64	1.71	1.63	7.6														

IC412 TA8229K

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Voltage	0	14.4	7.5	15	7.5	14.4	0	14.6	7.7	0.6	0	0	0.6	0	0	

IC415 MM1453XF

UNIT:V

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
Voltage	3.63	3.63	0.01	0	3.63	3.64	3.64	3.64	0	3.64	3.64	3.64	3.64	3.64	3.64	4.31	3.63	7.86				

IC601 LC72336

UNIT:V

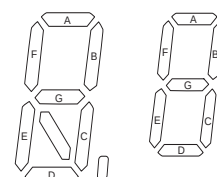
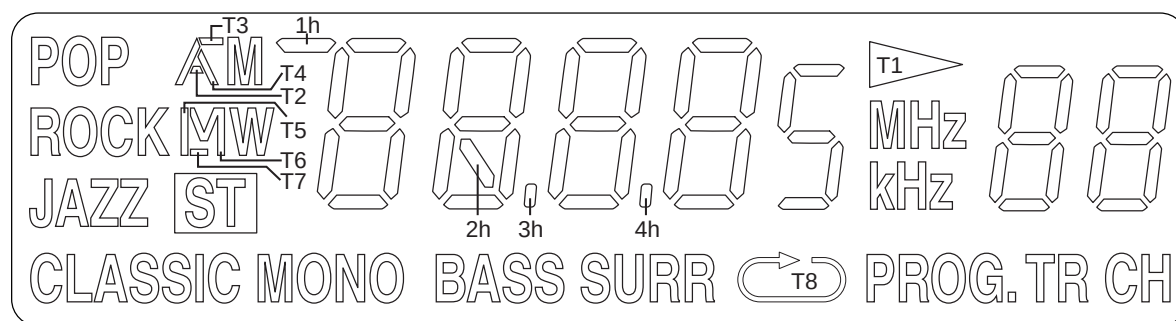
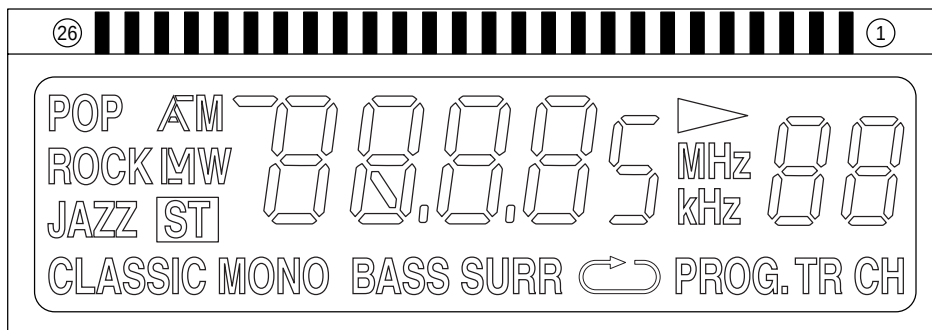
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Voltage	2.3	0	0	0	0	0.01	4.9	0	0	0	0	4.9	0	0	0	3.48	0	0.01	0.45	4.93	4.93	0.21
Pin No.	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Voltage	0.16	4.78	4.51	0.02	4.78	0	4.93	5	4.9	2.43	2.44	2.43	2.44	4.93	0	2.43	2.44	2.43	2.44	2.44	2.43	2.43
Pin No.	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Voltage	2.44	2.43	2.44	2.44	2.44	2.44	2.43	2.43	2.43	2.44	2.43	2.42	2.41	2.42	1.61	3.2	0	0.03	0.03	0.03	4.93	4.94
Pin No.	67	68	69	70	71	72	73	74	75	76	77	78	79	80								
Voltage	0	5.03	0	2.51	2.49	4.94	4.92	4.44	2.54	0	1.2	0.81	0	2.45								

TRANSISTORS

UNIT:V

Pin No.		Q1301	Q1401	Q2001	Q2002	Q2003	Q2101	Q2102	Q2103	Q2105	Q2106	Q2107	Q2108	Q2109	Q2110	Q2111	Q2201	Q2202	Q4103	Q4104	Q4106	Q4730
	E	4.9	8.5	0	0	4.87	4.87	0	1.58	0	0	0	0	0	0	0	4.87	4.87	5.07	0	0	1.71
Voltage	C	1.5	5.7	4.55	4.44	9.16	0	3.77	0.28	0	0	0	0	0	0	2.4	4.5	0	5.06	3.5	5.04	1.67
	B	4.3	7.9	0.71	0.73	5.57	4.85	0.17	0	0	0	0	0	0	0	0.7	0.17	4.75	0	0	0	4.9
Remarks									UK only	UK only	UK only	UK only	UK only				UK only					
Pin No.		Q4830	Q4751	Q4851	Q4902	Q4903	Q4904	Q4905	Q4951	Q6200	Q6201											
	E	1.71	0	0	0	0	0	0	9.27	0.67	0											
Voltage	C	1.67	0	0	0	0	0	0	15.1	0.9	0.9											
	B	4.9	0.66	0.66	0	0.63	0	0.7	9.91	1.2	0.67											

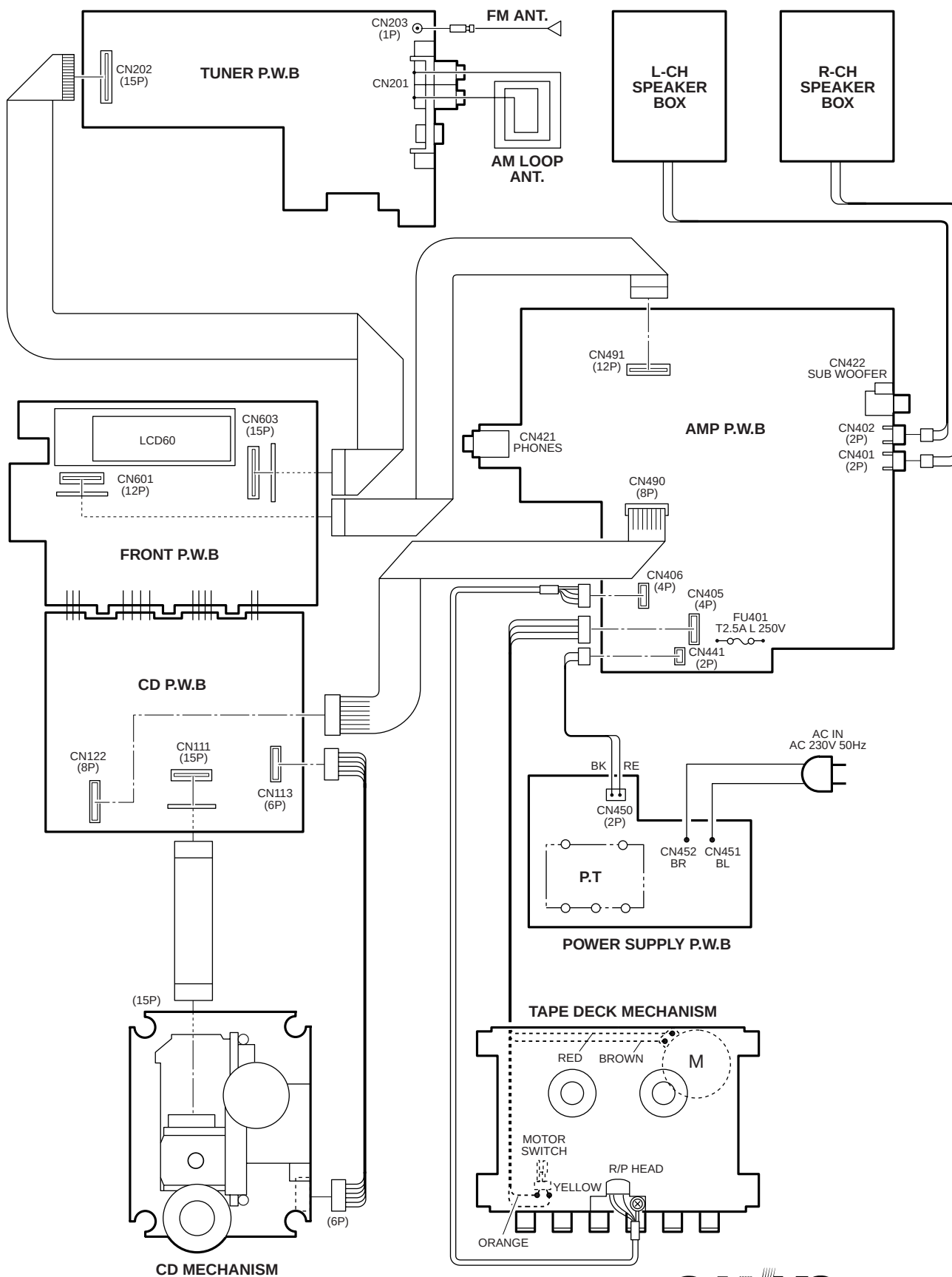
LCD60



PAD NO.	IC.NO.	COM1	COM2	COM3
1	C1	COM1	-	-
2	C2	-	COM2	-
3	C3	-	-	COM3
4	S1	7A	7F	7E
5	S2	7B	7G	7D
6	S3	ROCK	7C	CH
7	S4	6A	6F	6E
8	S5	6B	6G	6D
9	S6	JAZZ	6C	TR
10	S7	T1	MHZ	KHZ
11	S8	5	PROG.	BASS
12	S9	T5	T6	ST
13	S10	A4	F4	4E

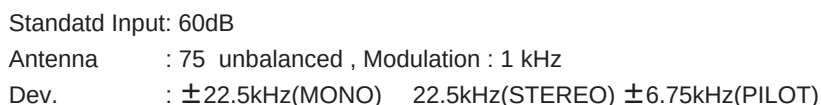
PAD NO.	IC.NO.	COM1	COM2	COM3
14	S11	4B	4G	4D
15	S12	4h	4C	T8
16	S13	3A	3F	3E
17	S14	3B	3G	3D
18	S15	3h	3C	SURR
19	S16	2A	2F	2E
20	S17	2B	2G	2D
21	S18	2h	2C	MONO
22	S19	T2	T4	T7
23	S21	POP	T3	-
24	S22	1A	1F	1E
25	S23	1B	1G	1D
26	S24	1h	1C	CLASSIC

WIRING CONNECTION



SANYO

- FM : 87.5 - 108.0MHz (50kHz step)
AM : 522 - 1611KHz (9kHz step)
LM : 144 - 288kHz (9kHz step)



Step	Adjusting Circuit	Connection		SG Frequency	Set Position	Adjustment	Remark
		Input	Output				
1	IF(0V) Adjustment	98.0MHz.Input Level FM Antenna SG=66dB μ V	Alignment voltage IC211 3-22pin(TP21,TP22) is $0.0\pm0.05V$	10.7MHz (at 98MHz)	Low	T2002	Alignment voltage IC211 3-22pin(TP21,TP22) is $0.0\pm0.05V$
2	Cover	---	Connect Digital DC voltmeter to TP6(H), TP11(E).	87.5MHZ	Low	L2002	$1.0\pm0.5V$
	Voltage	---		108.0MHZ	High	---	$6.7\pm0.5V$

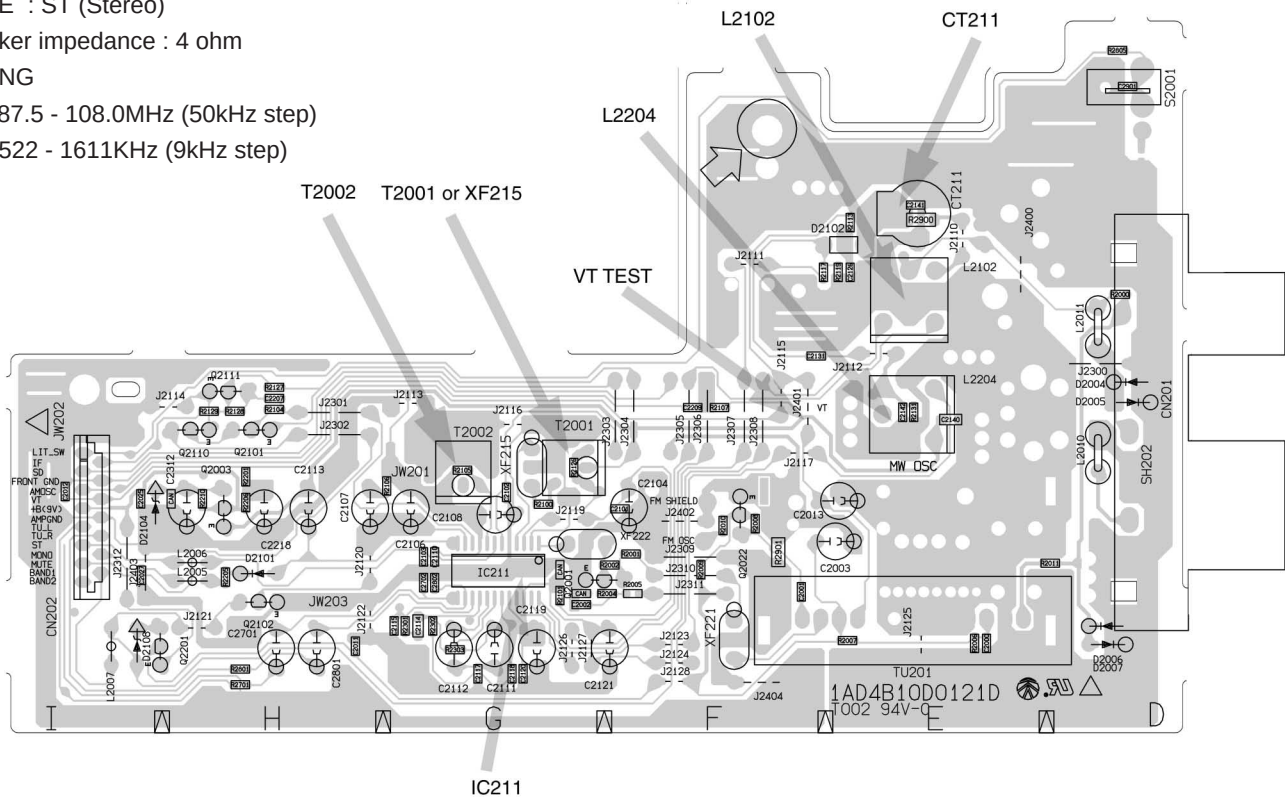
2. MW

3. LW

- 4 -

TUNER ADJUSTMENTS (for XE)

- Use a plastic screw driver for adjustments.
- MODE : ST (Stereo)
- Speaker impedance : 4 ohm
- TUNING
FM : 87.5 - 108.0MHz (50kHz step)
AM : 522 - 1611KHz (9kHz step)



Standatd Input: 60dB

Antenna : 75 unbalanced , Modulation : 1 kHz

Dev. : $\pm 22.5\text{kHz}$ (MONO) 22.5kHz (STEREO) $\pm 6.75\text{kHz}$ (PILOT)

1. FM

Step	Adjusting Circuit	Connection		SG Frequency	Set Position	Adjustment	Remark
		Input	Output				
1	IF(0V) Adjustment	98.0MHz.Input Level FM Antenna SG=66dB μ V	Alignment voltage IC211 3-22pin(TP21,TP22) is $0.0\pm0.05V$	10.7MHz (at 98MHz)	Low	T2002	Alignment voltage IC211 3-22pin(TP21,TP22) is $0.0\pm0.5V$
2	Cover	---	Connect Digital DC voltmeter to TP6(H), TP11(E).	87.5MHZ	Low	L2002	$1.4\pm0.2V$
	Voltage	---		108.0MHZ	High	---	$7.0\pm0.5V$

SG Modulation : 1kHz, 30%

Antenna, IRE Loop, Distance : 60 cm

2. MW

Step	Adjusting Circuit	Connection		SG Frequency	Set Position	Adjustment	Remark
		Input	Output				
1	IF	---	Connect Sweep generator to test point TP9(H), TP7(E)	450kHz (at 999kHz)	Low	T2001 or XF215	Max.
2	Cover	---	Connect Digital DC voltmeter to TP6(H), TP11(E).	522kHz	Low	L2204	$1.00 \pm 0.05V$
	Voltage	---		1611kHz	High	---	$7.50 \pm 0.8V$
3	Tracking	Connect AM SG to Test loop Ant.(SG=80dB μV)	Connect to VTVM TP9(L) or TP10(R), TP7(E).	603KHZ	Low	L2102	AF Maximum
				1404kHz	High	CT211	

