

Service
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Service Manual



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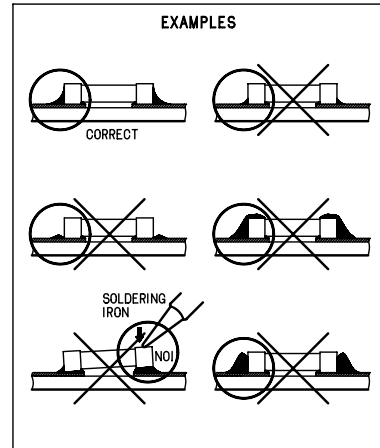
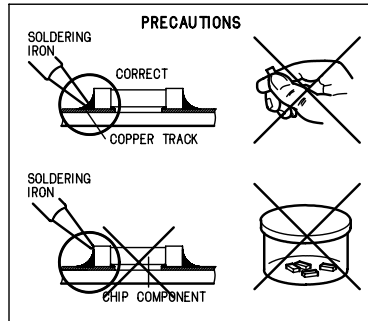
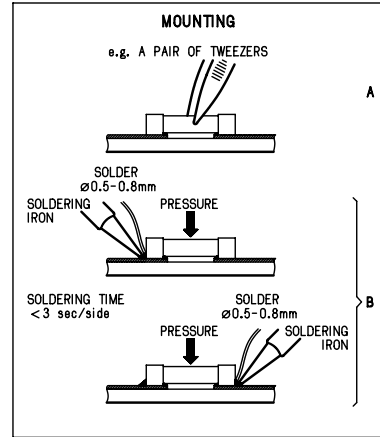
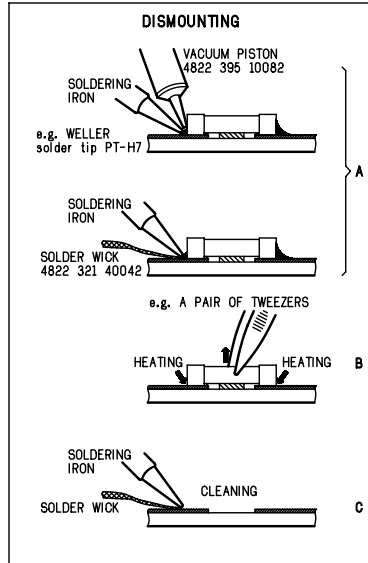
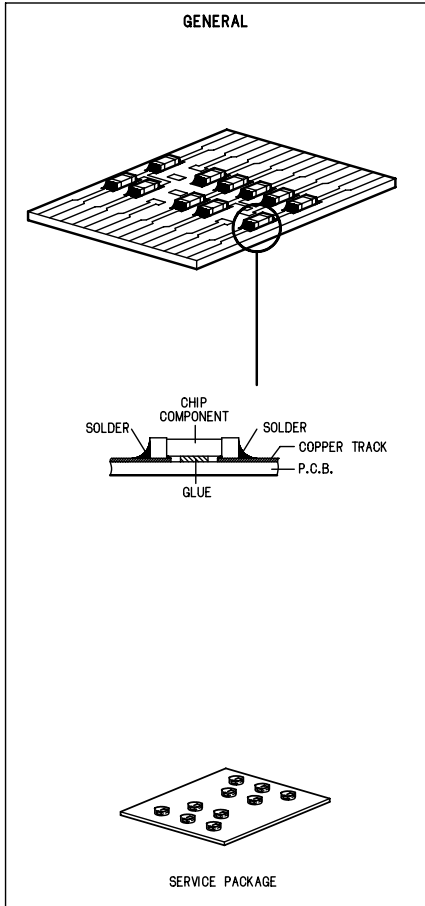
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HANDLING CHIP COMPONENTS



GB WARNING
All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wristband with resistance. Keep components and tools at this potential.



NL WAARSCHUWING
Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F ATTENTION
Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilier le bracelet serli d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG
Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.
Sorgen Sie dafür, daß Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

I AVVERTIMENTO
Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialeto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.
Safety components are marked by the symbol ▲



F
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.
Les composants de sécurité sont marqués ▲

D
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.
Sicherheitsbauteile sind durch das Symbol ▲ markiert.

NL
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.
De Veiligheidsonderdelen zijn aangeduid met het symbool ▲

I
Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.
Componenti di sicurezza sono marcati con ▲

GB DANGER: Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.



S Varning!
Osynlig laserstrålning när apparaten är öppnad och spårren är urkopplad. Betrakta ej strålen.

GB
After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.
The leakage current must not exceed 0.5mA.

DK Advarsel!
Usynlig laserstrålning ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

FIN Varoitus!
Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

F
Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne.

TECHNICAL SPECIFICATION

GENERAL

Mains voltage	-/00 : 230 V
	-/05 : 240V
	-/17 : 120 V
Mains frequency	-/00/05 : 50 Hz
	-/17 : 60 Hz
Power consumption	Max. : < 15 W
	Standby : < 5 W
Dimension (W x H x D)	: 326.5 x 75 x 190 mm
Weight	: 1.3 Kg

AMPLIFIER

Output power	: 2 x 0.8 W
Speaker impedance	: 2 x 8 ohm
Frequency response	: 100 Hz - 10 kHz (±3dB)

COMPACT DISC

Frequency response	: 100 Hz - 10 kHz ± 2dB
S/N ratio	: 60 dB
Channel difference	1 kHz : 2 dB
Channel crosstalk	1 kHz : 40 dB
Laser wavelength	: 780 ± 20 nm
Laser light power	: < 0.5mW

TUNER - FM SECTION

Tuning range	: 87.5 - 108 MHz
IF frequency	: 10.7 MHz ± 0.2 MHz
Sensitivity	: 22 dBf at 26dB S/N
Selectivity	: 20 dB at 300kHz
IF rejection	: 50 dB
Image rejection	: 20 dB
Crosstalk	: 20 dB

TUNER - AM SECTION

Tuning range	MW : 525 - 1602 kHz
	-/17 : 530 - 1710 kHz
IF frequency	: 468 kHz ± 1 kHz
Sensitivity	MW : 4000 µV/m at 26dB S/N
Selectivity	MW : 16 dB
IF rejection	MW : 24 dB
Image rejection	MW : 28 dB

SERVICE TOOLS

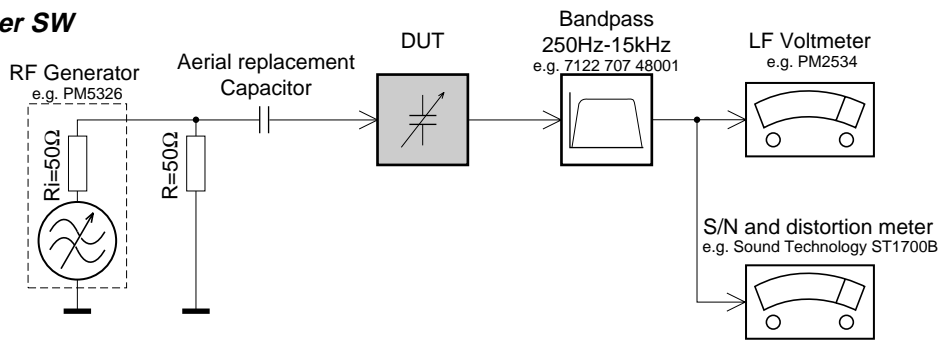
Audio signal disc SBC 429.....	4822 397 30184
Playability test disc SBC 444.....	4822 397 30245
Test disc 5 (disc without errors) +	
Test disc 5A (disc with dropout errors, black spots and fingerprints)	
SBC 426/426A.....	4822 397 30096
Burn in test disc (65 min. 1kHz signal at -30 dB level without "pause").....	4822 397 30155

AVAILABLE ESD PROTECTION EQUIPMENT

anti-static table mat	large 1200x650x1.25mm	4822 466 10953
	small 600x650x1.25m	4822 466 10958
anti-static wristband		4822 395 10223
connection box (3 press stud connections, 1MΩ)		4822 320 11307
extendible cable (2m, 2MΩ, to connect wristband to connection box)		4822 320 11305
connecting cable (3m, 2MΩ, to connect table mat to connection box)		4822 320 11306
earth cable (1MΩ, to connect any product to mat or to connection box)		4822 320 11308
KIT ESD3 (combining all 6 prior products - small table mat)		4822 310 10671
wristband tester		4822 344 13999

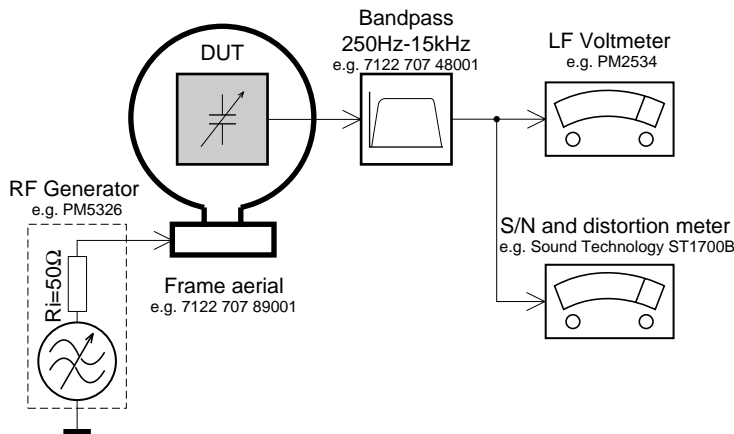
SERVICE MEASUREMENT

Tuner SW



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday«s cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

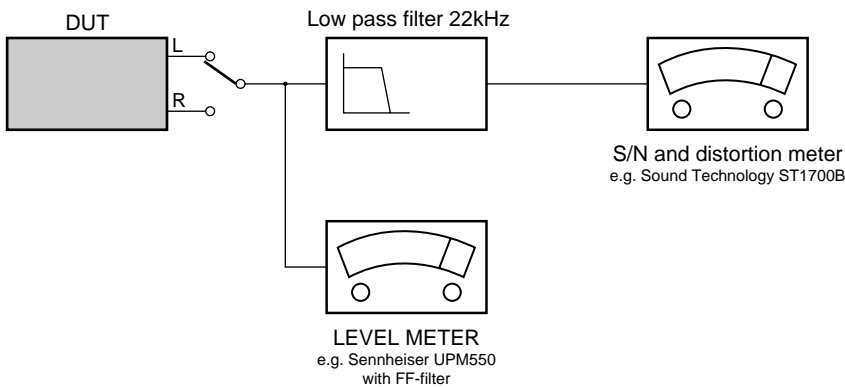
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday«s cage.

CD

Use Audio Signal Disc SBC429 4822 397 30184 (replaces test disc 3)
L.P.F. = 13th order filter 4822 395 30204



INSTRUCTIONS FOR USE

- Release **◀** / **▶** when you have reached the desired setting.
 → If you need to adjust the time slowly, minute by minute, press and release **◀** / **▶** repeatedly.
 → After several seconds, the time setting is confirmed when the display stops flashing.
- Repeat steps 1-3 for each of the clock or alarm (**AL1**, **AL2**) settings.



Alarm time display

If you have set both alarms, the standby alarm time display will show the earlier of the two alarm times as priority. E.g. if **AL1** = 6:00 and **AL2** = 5:45, then the standby alarm display will show the **AL2** time 5:45.

CD PLAYBACK

- Insert a CD with the printed side facing up, and close the door.
- Press **PLAY / PAUSE** **▶** to start playback.
 → Display shows:
 'L', 'C', 'T', 'D', 'R' is shown if the CD door is not closed.
 → 'R', 'R', 'C', 'D' is shown if no CD has been inserted / inserted incorrectly.
 → 'R', 'F', 'L', 'C', 'D' is shown if the CD-R(W) is non-finalized
 → 'E', 'R', 'R' indicates a general error in operation of the set.



Other possible CD indications before returning to clock time:

- 'E', 'R', 'R' is shown if the CD door is not closed.
- 'R', 'R', 'C', 'D' is shown if no CD has been inserted / inserted incorrectly.
- 'R', 'F', 'L', 'C', 'D' is shown if the CD-R(W) is non-finalized
- 'E', 'R', 'R' indicates a general error in operation of the set.

- Adjust the sound with **▼** or **▲**.
- To interrupt, press **▶** **▶**
 → CD icon flashes.
- Press **▶** **▶** again to resume playback.
- Press **ALARM RESET** to stop playback.

Note: If CD playback is paused for more than 15 minutes and no controls are pressed, the set automatically goes to standby mode.

- TIME / ALARM**
 - toggle to set the times for the clock time, or alarm 1 or 2.
- Display**
 - shows the clock / alarm times and status of the unit.

POWER SUPPLY

- Check if the power voltage, shown on the AC-DC adapter plug, corresponds to your local power supply. If it does not, consult your dealer or service center.
- Connect the AC-DC adapter plug to the wall outlet.
- To disconnect the set completely from the power supply, withdraw the AC-DC adapter plug from the wall outlet.

The serial and production number are located on the bottom of the set.

Standby power consumption (clock mode).....2W

MEMORY BACKUP

The memory backup conveniently allows your clock and alarm time settings to be stored for up to 3 minutes when there is a power interruption e.g. AC power failure. The complete CD clock radio and lighted display will be switched off. As soon as the power supply returns, the display will indicate the correct time.
 • If power supply returns after 3 minutes you will need to re-enter the clock and alarm time settings.

BASIC FEATURES

Display brightness

- Toggle REPEAT ALARM/ BRIGHTNESS CONTROL.**
 → The brightness of the display toggles between:
low → **bright** → **low**

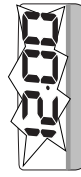
Volume

Press **▼** or **▲** to adjust the volume level. The volume level **1-9** is indicated as a number from 0-32.

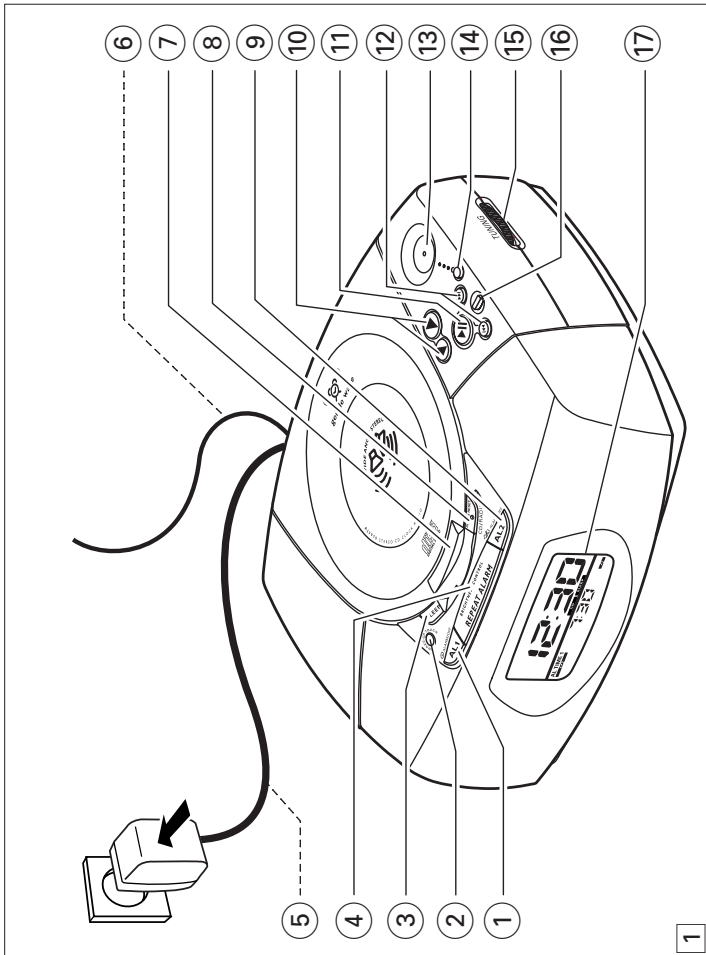


SETTING THE CLOCK AND ALARM TIMES

The time is displayed using the 12 hour clock (**PM** indicator lights up = PM, off = AM).



- Press and hold down **TIME/ALARM** until the clock or alarm time display flashes; then release **TIME/ALARM**.
 • Press **TIME/ALARM** repeatedly to toggle between the time or alarm displays
- Press and hold down **◀** / **▶** to fast adjust both the hours and minutes settings.



CONTROLS (see figure 1)

- AL 1 (◉ ALARM/ OFF)**
 - selects CD alarm;
 - to cancel or switch off CD alarm.
- WAKE-UP TRACK**
 - to program to your favorite CD track for wake-up track alarm option.
- SLEEP**
 - adjusts timer options for CD / radio;
 - switch on radio for timer mode.
- REPEAT ALARM/ BRIGHTNESS CONTROL**
 - changes the brightness of the display window;
 - switches off the alarm for a 9 minute period;
 - switches off radio / CD timer (SLEEP).
- Power cord**
 - connect AC-DC adapter plug to wall outlet.
- Coil antenna**
 - antenna to improve FM reception.
- CD door**
 - lift here to open / close CD door
- ALARM RESET (CD/ RADIO OFF)**
 - stops CD / radio playback;
- switches off radio / CD timer (SLEEP);
 - stops the active buzzer, radio or CD alarms for 24 hours.
- AL 2 (◉ ALARM/ OFF)**
 - selects radio / buzzer ◉ alarm mode;
 - to cancel or switch off radio / buzzer alarm.
- VOLUME ▲, ▼**
 - adjusts the sound level.
- PLAY / PAUSE ▶**
 - starts / pauses CD playback.
- DOWN, UP ◀, ▶**
 - adjusts clock / alarm times
 - skips CD tracks / searches for a particular passage.
- Tuning indicator**
 - shows the radio frequency of your selected waveband.
- RADIO ON (FM/ AM)**
 - switches on the radio;
 - selects the radio waveband.
- TUNING**
 - tunes to a radio station.

INSTRUCTIONS FOR USE

SLEEP

About Sleep

The CD clock radio has a built-in sleep timer which enables the set to be automatically switched off during radio or CD playback after a set period of time. There are 3 sleep times: 60, 30 and 15 minutes.

The sleep function does not change the operation of your alarm settings.

Setting SLEEP

1. Press **▶II** (CD) or **RADIO ON** (radio) to switch on the desired mode.
 - You can also press **SLEEP** if you want the timer in radio mode.

2. Select your timer option by pressing **SLEEP** once or more until the desired option is shown.
 - Display shows **5L** : and the timer options:
50 → **30** → **15** minutes → **50** → **30** ...



3. To cancel the timer function you can either:
 - Press **ALARM RESET**.
 - Press **REPEAT ALARM/ BRIGHTNESS CONTROL**.
 - Press **SLEEP** once or more until the sleep function is no longer shown.

SWITCHING OFF THE ALARM

There are three ways to switch off the alarm. Unless you cancel the alarm completely, the **24 HOUR ALARM RESET** will be automatically selected after 59 minutes, from the time your alarm time first goes off.

24 HOUR ALARM RESET

If you want the alarm mode to be stopped immediately but also wish to retain the same alarm setting for the following day:

- Press **ALARM RESET**.
 - You will hear a beep tone to confirm the 24 hour alarm is reset.

REPEAT ALARM

This will repeat your alarm call at 9-minute intervals.

- During the alarm call, press **REPEAT ALARM/ BRIGHTNESS CONTROL**.
 - Repeat if desired up to an hour.

Note:

- The selected alarm mode **0**, **1** or **2** indicators flashes throughout the repeat alarm duration.
- If you are using the CD alarm mode, CD playback resumes at the point where the repeat alarm interrupted.
- During the CD alarm, CD playback continues for up to an hour unless you cancel / reset the alarm.

CANCELING THE ALARM COMPLETELY

To cancel the set alarm time before it goes off, or during the alarm call:

- Press **AL1** or **AL2** once or more until the selected alarm indicator disappears from the display.
 - You will hear a beep tone to confirm the alarm has been cancelled.

Radio Alarm:

If you have selected the radio alarm, make sure you have tuned properly to a station.

2. Read the following section if you want to select the **WAKE-UP TRACK** alarm option.

Selecting CD WAKE-UP Alarm Mode

You can program and select a CD track number between 1-99, when the set is in the standby or radio playback mode. However, if the track number programmed does not exist on your CD, the CD will start playback from the first track during the alarm call.

1. Set the alarm time for **AL1**.
2. Insert a CD into the CD compartment.
3. Press **AL 1** to select CD alarm mode.
4. Press **WAKE-UP TRACK** to activate favorite track programming.
 - The display returns to standby clock time.
5. Press **◀** or **▶** until the desired track number is shown.
6. Press **WAKE-UP TRACK** to confirm the selected track number.
 - The display returns to standby clock time.
7. If you want to review your programmed track number, press **WAKE-UP TRACK**.

Note:

- The buzzer alarm option will automatically replace the CD alarm if you have:
 - inserted a CD incorrectly;
 - inserted a damaged CD;
 - forgotten to insert any CD;
 - not closed the CD door properly.

Gentle Wake Volume

A sure way of getting up in the mornings, the **gentle wake** volume for the alarm begins from a fixed gentle volume (**1:27**) and gradually increases to a maximum higher setting of (**1:25**).

- The default low volume is **L 0 : 1:27**, and the maximum volume is **H 1 : 2:5**.
- During the alarm call, if you press **▼** or **▲**, the volume stops increasing immediately.
- The gentle wake volume settings do not affect normal CD and radio playback volume level, unless you have pressed **▼** or **▲** during the alarm call.

Selecting a different track during playback

The track number appears briefly in the display when you press **◀** or **▶** to skip tracks.

- Press **▶** once or more to skip to the next track(s).
- Press **◀** once and playback will return to the beginning of the current track.
- Press **◀** more than once to skip to previous tracks.

Finding a passage within a track

7. During playback, press and hold down **◀** or **▶**
 - The CD is played at high speed and low volume, the display will show "C": and your current track number.
2. Release **◀** or **▶** when you recognize the passage you want.
 - Normal CD playback and standby clock time resumes.

RADIO

1. Press **RADIO ON (FM/AM)** to switch on the radio.
 - Display shows **L** or **L**, before returning to clock time.
2. Press **RADIO ON (FM/AM)** again if you wish to change waveband.
3. Adjust the sound using **▼** or **▲**.
4. Adjust the **TUNING** wheel to tune to a radio station.

To improve reception:

FM: Extend coil antenna at the back of the unit fully for optimum reception.
AM: Uses a built-in antenna. Direct the antenna by adjusting the position of your set.

5. Press **ALARM RESET** to switch off.

SETTING THE ALARM OPTIONS

GENERAL

Two different alarm times, **AL 1** and **AL 2** can be set in the CD, radio or buzzer modes.

Selecting the Alarm Mode Options

When selected, the selected alarm mode is shown in the display, and the respective **AL 1** or **2** button lights up.

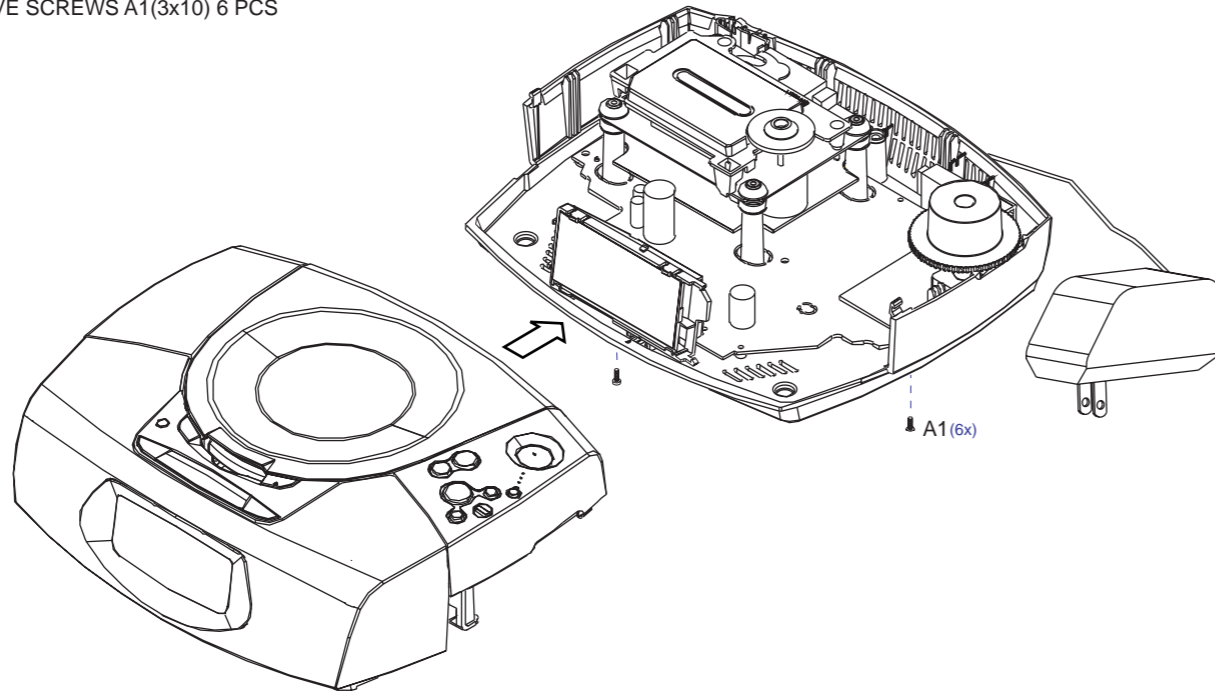
7. Select your choice of alarm mode.
 - Either press briefly:
 - **AL1** once for CD alarm **0** . This enables CD playback from the first track as your alarm call.
 - **AL2** once or more for radio **1** / buzzer **2** alarm



DISASSEMBLY DIAGRAM

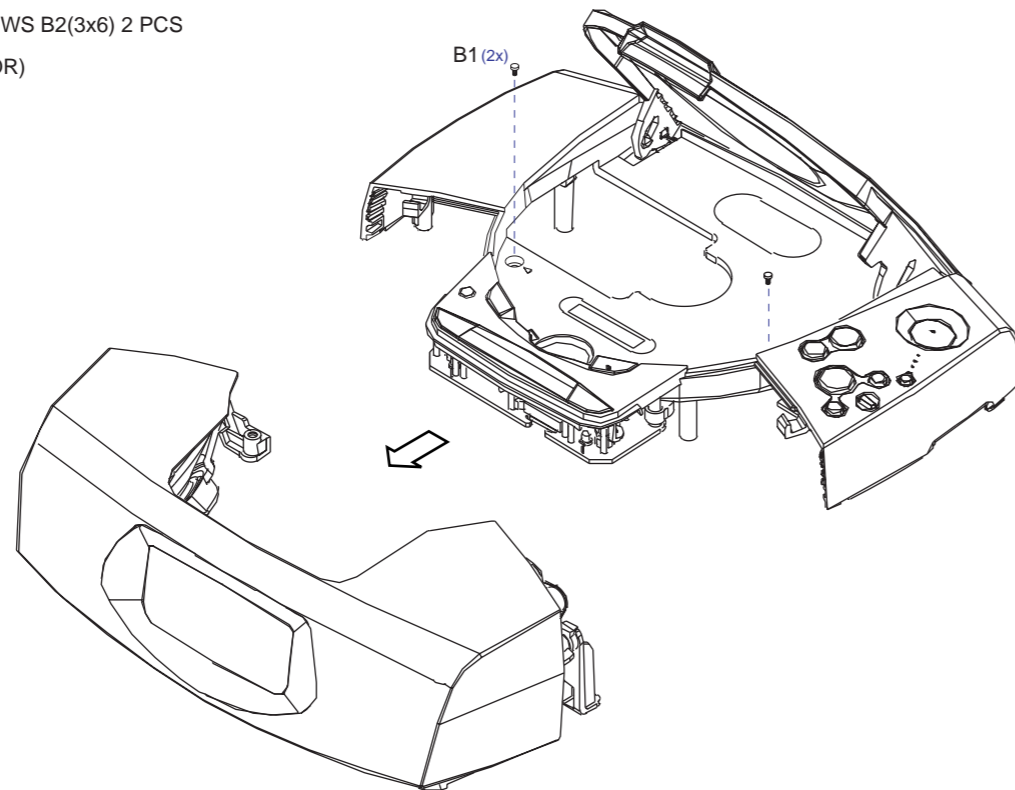
A. REMOVE BACK CABINET ASSEMBLY

- REMOVE SCREWS A1(3x10) 6 PCS



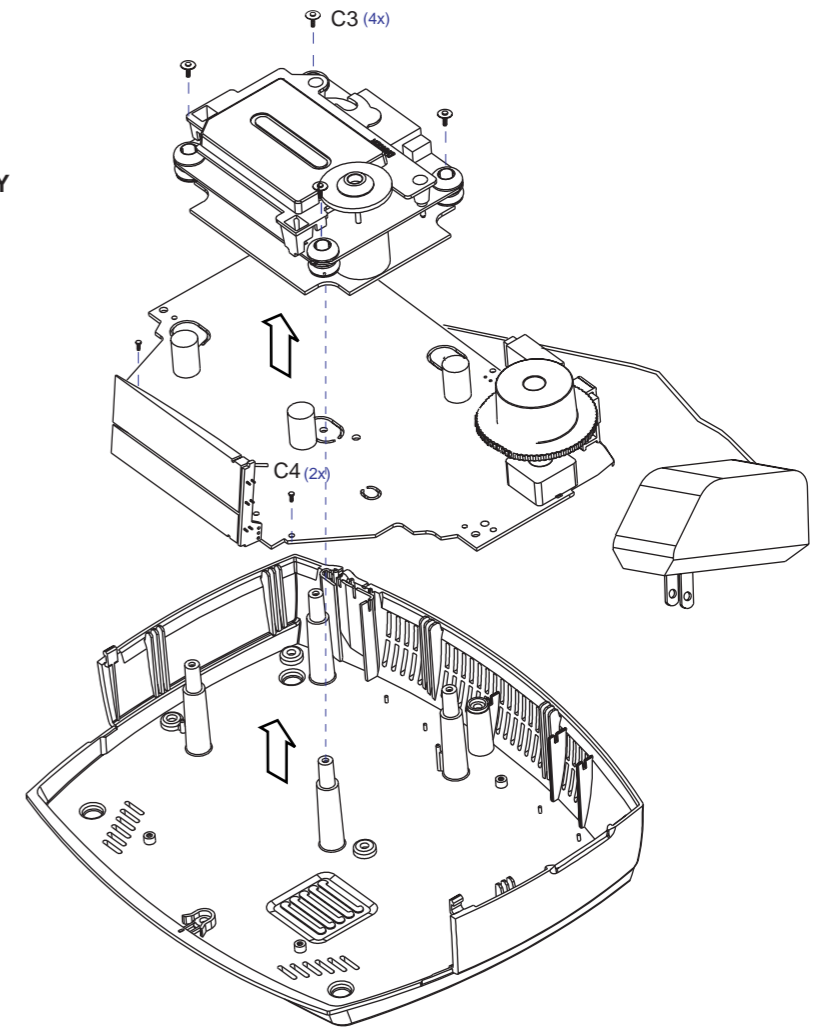
B. REMOVE FRONT CABINET ASSEMBLY

- REMOVE SCREWS B2(3x6) 2 PCS
(INSIDE CD DOOR)



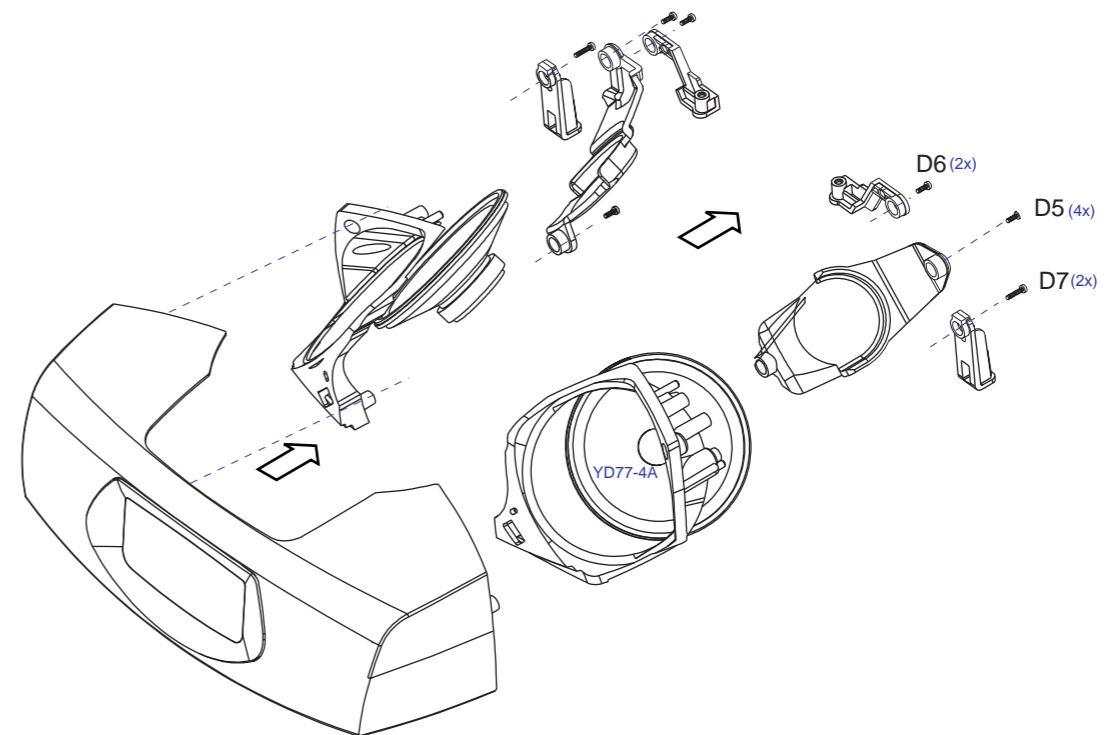
C. REMOVE COMBI BOARD ASSEMBLY

- REMOVE SCREWS C3 (2.5x10) 4 PCS
- REMOVE SCREWS C4 (2x8) 2 PCS



D. REMOVE LOUDSPEAKER

- REMOVE SCREWS D5 (3x10) 4 PCS
- REMOVE SCREWS D6 (3x10) 2 PCS
- REMOVE SCREWS D7 (3x16) 2 PCS



SERVICE TEST PROGRAM

- STOP button pressed in any step returns to begin of Service Testprogram.
- To leave Service Testprogram disconnect the power supply.
- Door switch is ignored → CD door can be opened.

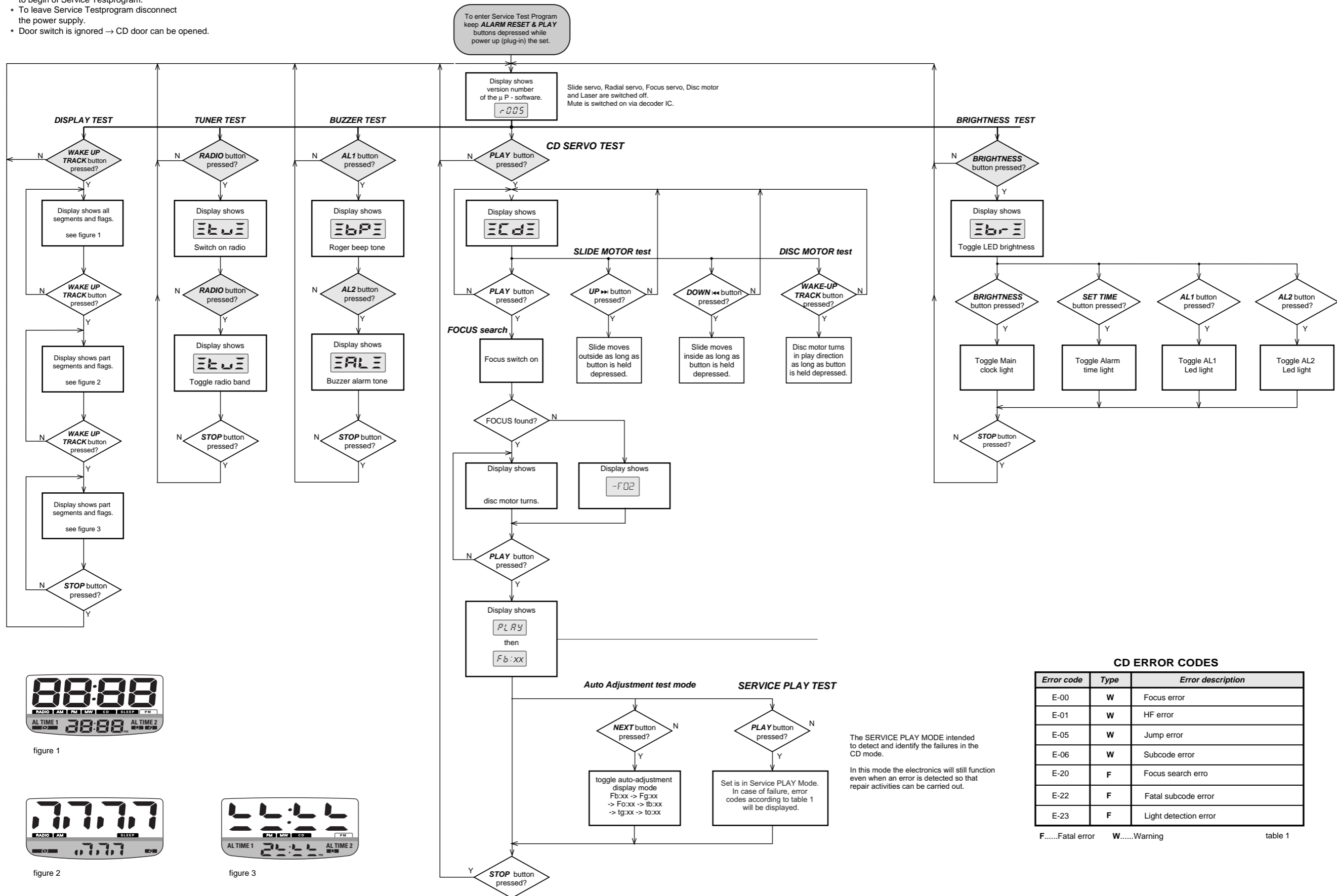


figure 1



figure 2



figure 3

CD ERROR CODES

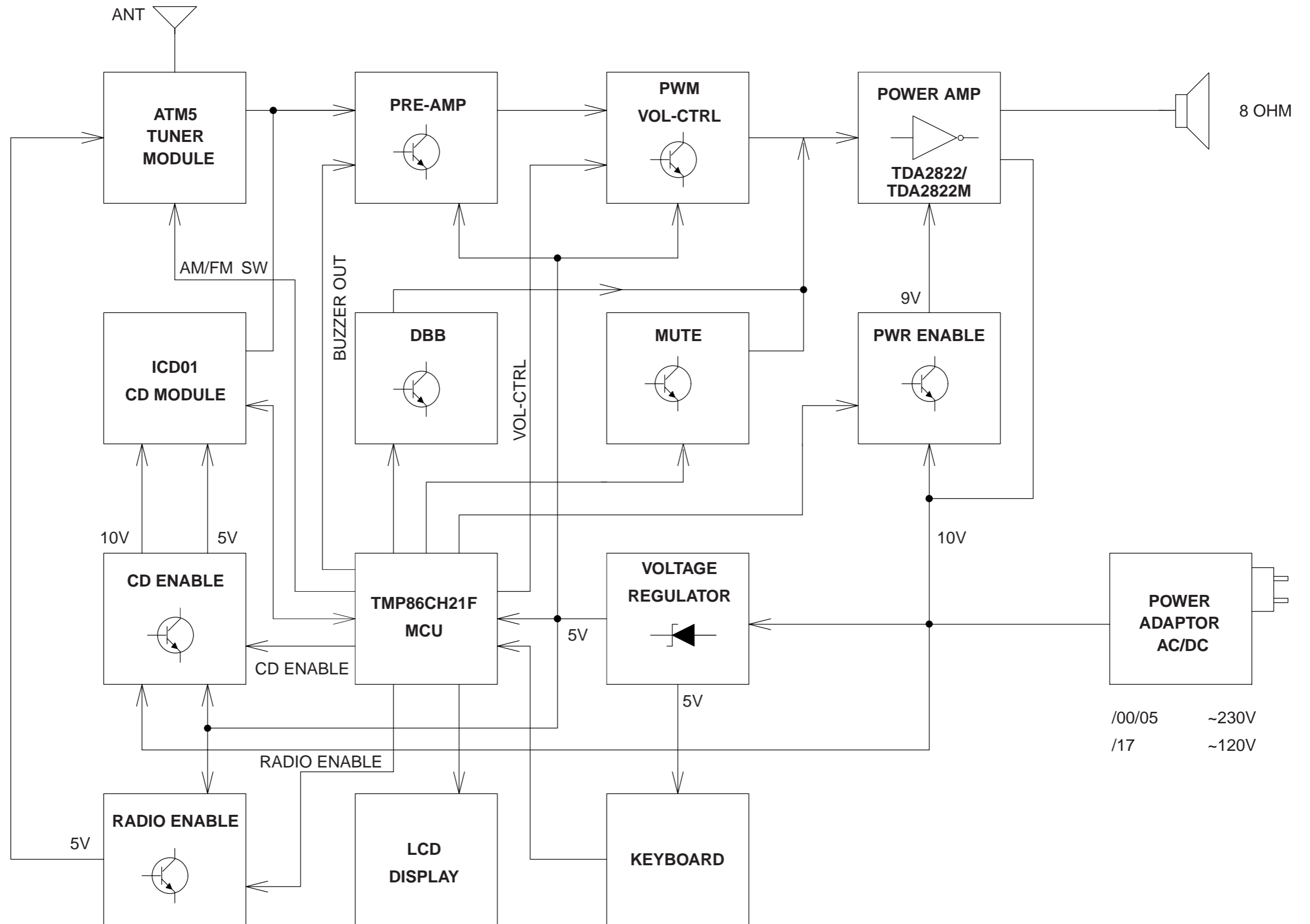
Error code	Type	Error description
E-00	W	Focus error
E-01	W	HF error
E-05	W	Jump error
E-06	W	Subcode error
E-20	F	Focus search error
E-22	F	Fatal subcode error
E-23	F	Light detection error

F.....Fatal error W.....Warning

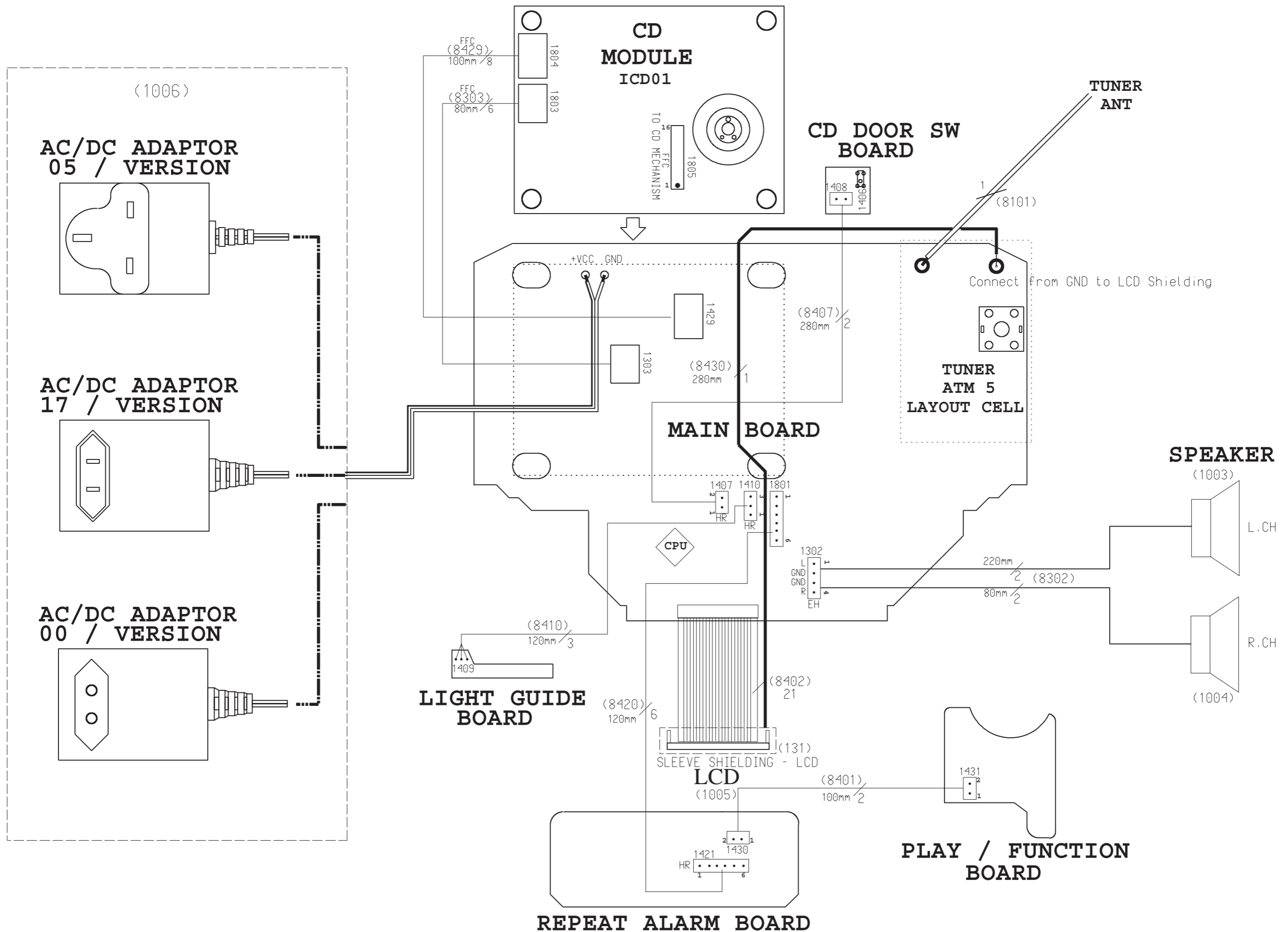
table 1

The SERVICE PLAY MODE intended to detect and identify the failures in the CD mode. In this mode the electronics will still function even when an error is detected so that repair activities can be carried out.

BLOCK DIAGRAM

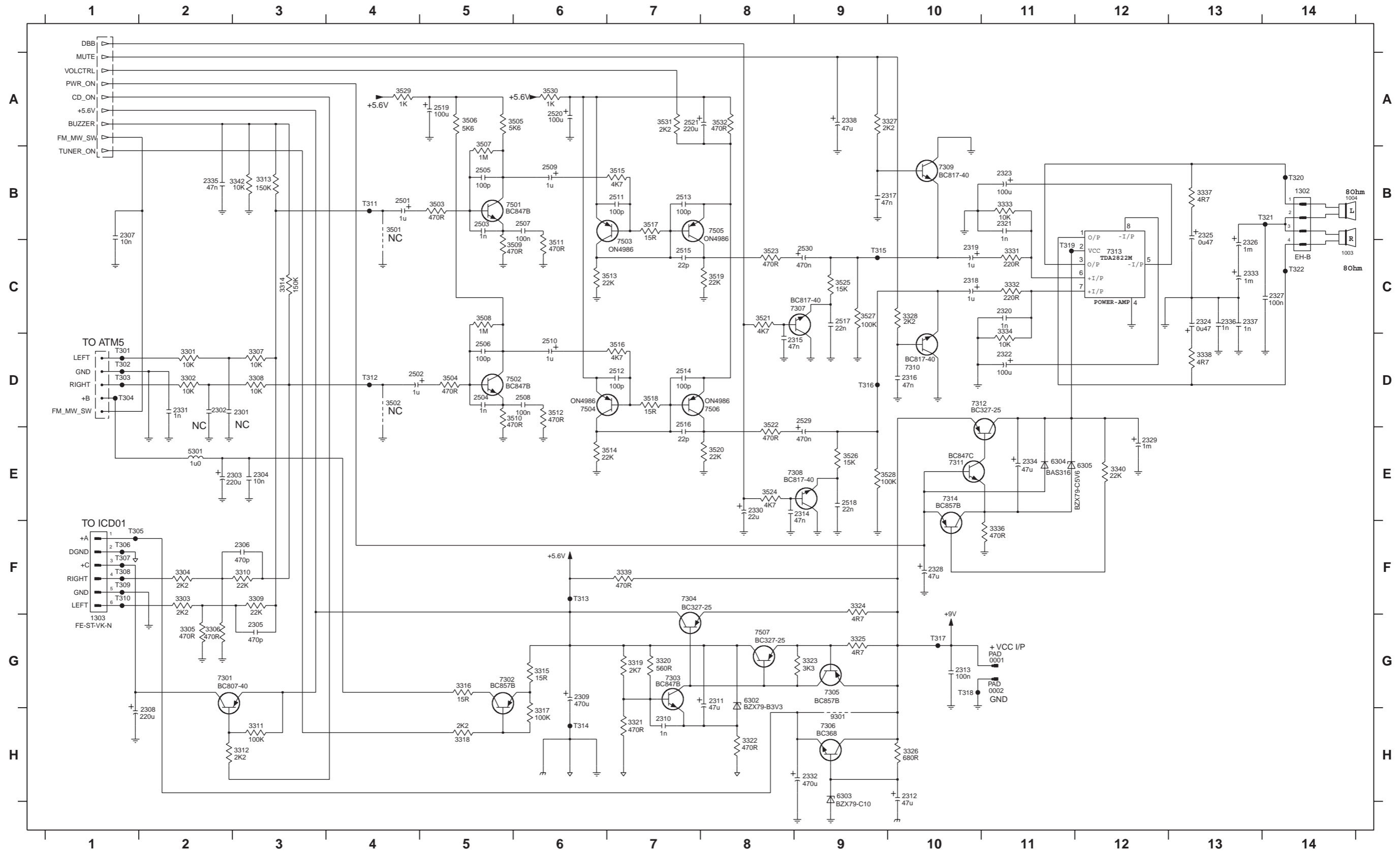


WIRING DIAGRAM



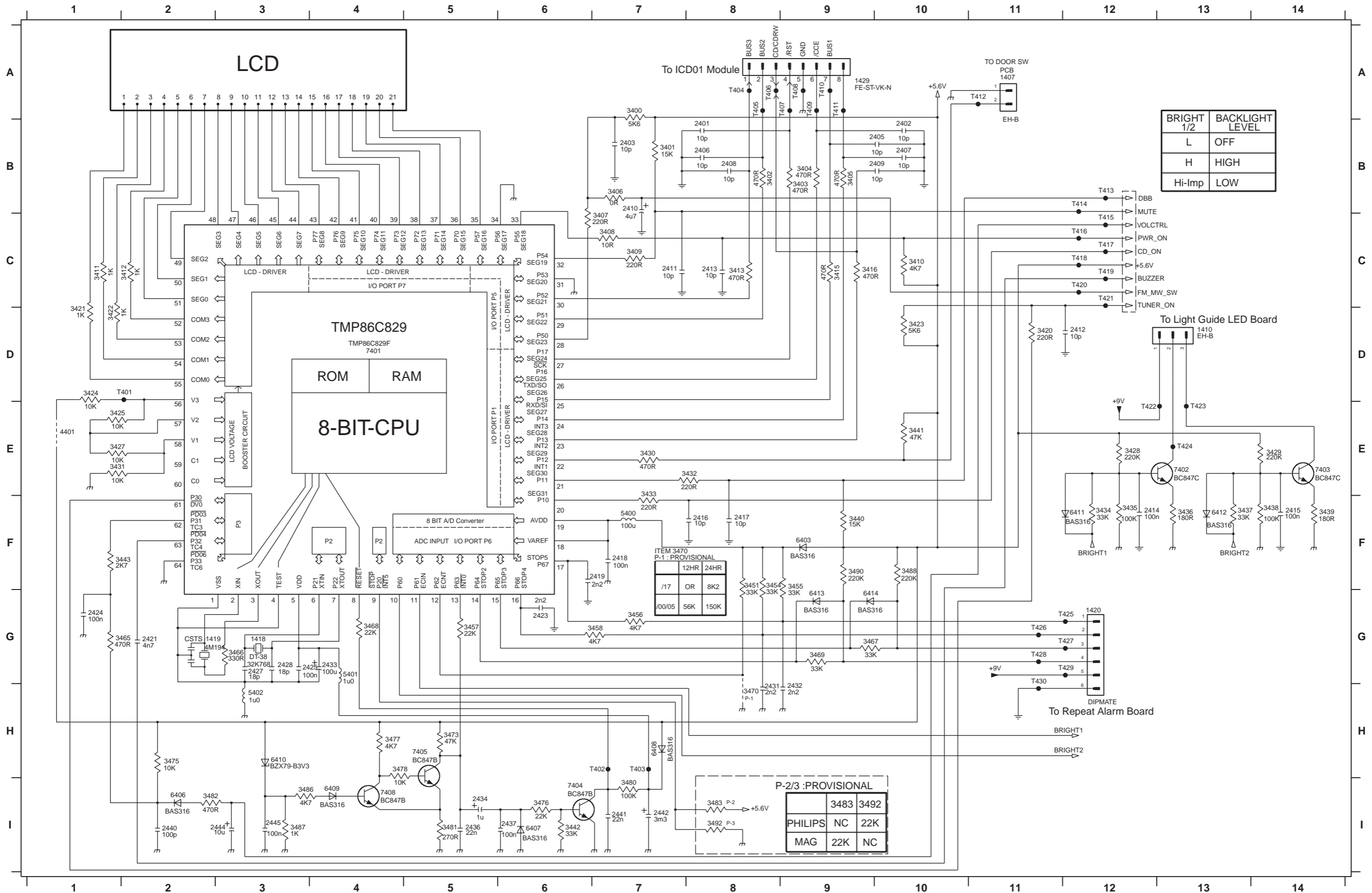
MAIN BOARD- CIRCUIT DIAGRAM (AF PART)

0001 G11	2301 D3	2307 B1	2313 G10	2319 C10	2325 B13	2331 D2	2337 C13	2505 B5	2511 B7	2517 C9	2530 C9	3306 G2	3312 H2	3318 H5	3324 F9	3332 C11	3339 F7	3504 D5	3510 D5	3516 D7	3522 E8	3528 E9	6302 G8	7303 G7	7309 B10	7501 B5	7507 G8	T305 F1	T311 B4	T317 G10
0002 G11	2302 D2	2308 H1	2314 E8	2320 C11	2326 C13	2332 H8	2338 A9	2506 D5	2512 D7	2518 E9	3301 D2	3307 D3	3313 B3	3319 G7	3325 G9	3333 B11	3340 E12	3505 A5	3511 C6	3517 B7	3523 C8	3529 A4	6303 H9	7304 F7	7310 D10	7502 D5	9301 H9	T306 F1	T312 D4	T318 G10
1003 C14	2303 E2	2309 G6	2315 D8	2321 B11	2327 C13	2333 C13	2501 B4	2507 B6	2513 B7	2519 A5	3302 D2	3308 D3	3314 C3	3320 G7	3326 H10	3334 D11	3342 B3	3506 A5	3512 D6	3518 D7	3524 E8	3530 A6	6304 E11	7305 G9	7311 E10	7503 B7	T301 D1	T307 F1	T313 F6	T319 C11
1004 B14	2304 E3	2310 H7	2316 D10	2322 D11	2328 F10	2334 E11	2502 D4	2508 D6	2514 D7	2520 A6	3303 F2	3309 F3	3315 G6	3321 H7	3327 A9	3336 F10	3501 B4	3507 B5	3513 C6	3519 C7	3525 C9	3531 A7	6305 E11	7306 H9	7312 D10	7504 D6	T302 D1	T308 F1	T314 H6	T320 B14
1302 B14	2305 G3	2311 G7	2317 B9	2323 B11	2329 E12	2335 B2	2503 B5	2509 B6	2515 C7	2521 A7	3304 F2	3310 F3	3316 G5	3322 H8	3328 C10	3337 B13	3502 D4	3508 C5	3514 E6	3520 E7	3526 E9	3532 A8	7301 G2	7307 C8	7313 C12	7505 B8	T303 D1	T309 F1	T315 C9	T321 B14
1303 G1	2306 F3	2312 H10	2318 C10	2324 C13	2330 E8	2336 C13	2504 D5	2510 D6	2516 D7	2522 D9	3305 G2	3311 H3	3317 H6	3323 G8	3331 C11	3338 D13	3503 B5	3509 C5	3515 B7	3521 C8	3527 C9	5301 E2	7302 G6	7308 E9	7314 E10	7506 D8	T304 D1	T310 F1	T316 D9	T322 C14



MAIN BOARD - CIRCUIT DIAGRAM (CONTROL PART)

- 1407 A11 1429 A9 2406 B8 2411 C7 2416 F7 2423 G6 2431 H8 2437 I5 2445 I3 3404 B9 3409 C7 3415 C9 3423 D10 3429 E14 3434 F12 3439 F14 3451 F8 3458 G7 3469 G9 3477 H4 3483 I8 3492 I8 6403 F9 6410 H3 7401 D4 7408 I4 T405 A8 T410 A9 T415 C12 T420 C12 T425 G12 T430 G11
- 1410 D13 2401 B8 2407 B10 2412 D11 2417 F8 2424 G1 2432 H8 2440 I2 3400 A7 3405 B9 3410 C10 3416 C9 3424 D1 3430 E7 3435 F12 3440 F9 3454 F8 3465 G1 3470 H8 3476 H4 3486 I3 4401 E1 6406 I2 6411 F11 7402 E13 T401 D2 T406 A8 T411 A9 T416 C12 T421 C12 T426 G11
- 1418 G3 2402 B10 2408 B8 2413 C8 2418 F7 2425 G3 2433 G4 2441 I7 3401 B7 3406 B7 3411 C1 3420 D11 3425 E1 3431 E1 3436 F13 3441 E10 3455 F8 3466 G3 3473 H5 3480 I7 3485 F7 3490 F7 6407 I6 6412 F13 7403 E14 T402 H7 T407 A8 T412 A11 T417 C12 T422 E12 T427 G12
- 1419 G2 2403 B7 2409 B10 2414 F12 2419 F7 2427 G3 2434 I5 2442 I7 3402 B8 3407 C6 3412 C2 3421 D1 3427 E1 3432 E8 3437 F13 3442 I6 3456 G7 3467 G9 3475 H2 3481 I5 3488 F10 5401 G4 6408 H7 6413 G9 7404 I6 T403 H7 T408 A9 T413 B12 T418 C12 T423 E13 T428 G11
- 1420 G12 2405 B10 2410 C7 2415 F14 2421 G2 2428 G3 2436 I5 3403 B9 3408 C7 3413 C8 3422 D1 3428 E12 3433 F7 3438 F14 3443 F1 3457 G5 3468 G4 3476 I6 3482 I2 3490 F9 5402 H3 6409 I4 6414 G9 7405 H5 T404 A8 T409 A9 T414 B12 T419 C12 T424 E13 T429 G12



BRIGHT 1/2	BACKLIGHT LEVEL
L	OFF
H	HIGH
Hi-Imp	LOW

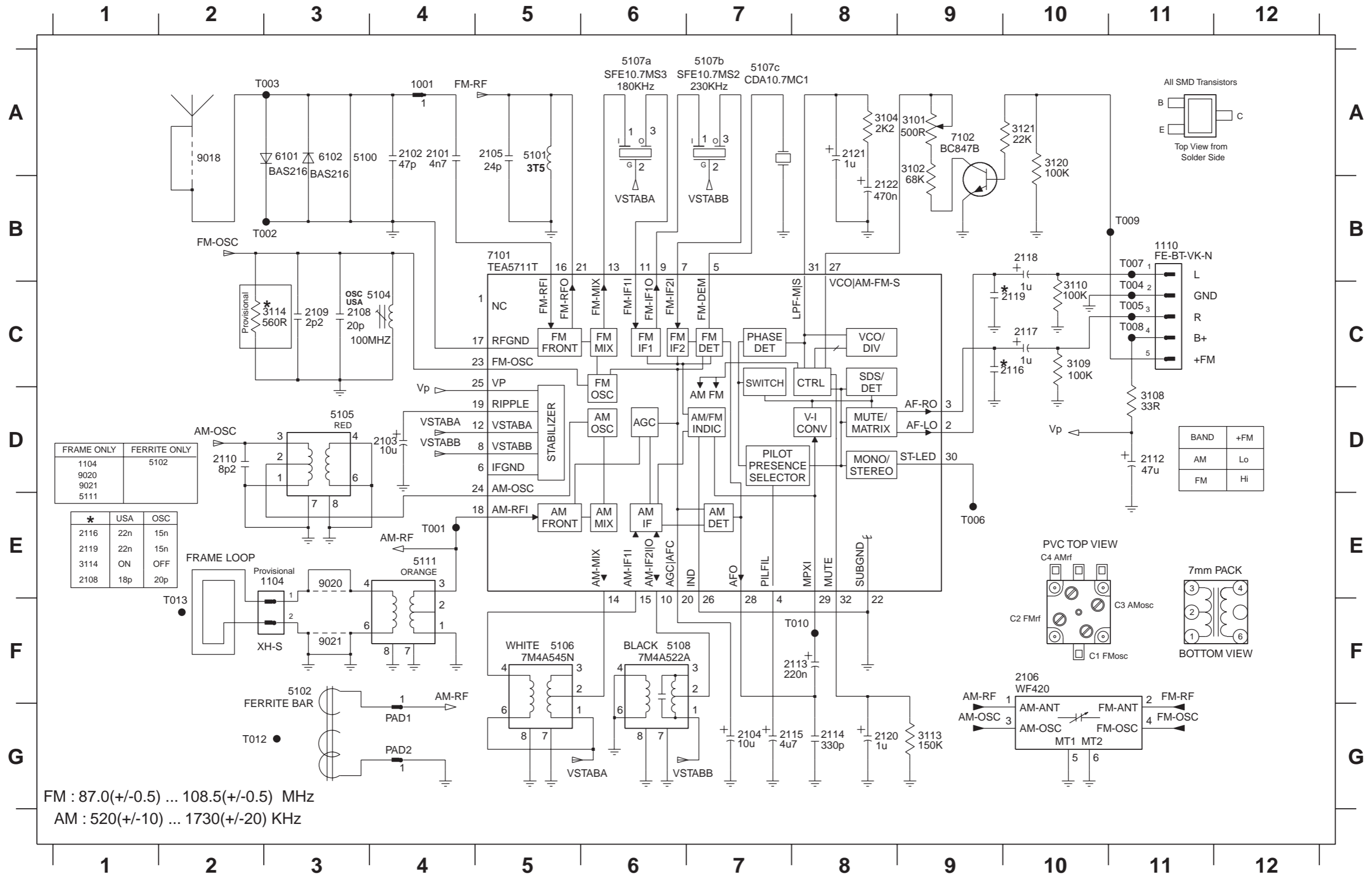
ITEM 3470 P-1: PROVISIONAL

	12HR	24HR
/17	OR	8K2
/00/05	56K	150K

P-2/3: PROVISIONAL

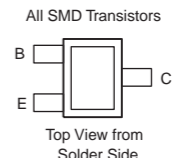
	3483	3492
PHILIPS	NC	22K
MAG	22K	NC

MAIN BOARD - CIRCUIT DIAGRAM (TUNER PART)

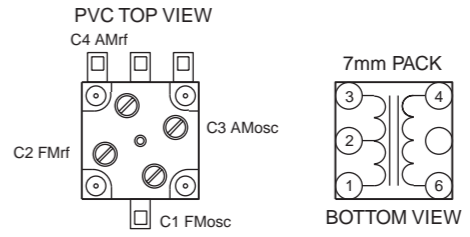


FM : 87.0(+/-0.5) ... 108.5(+/-0.5) MHz
 AM : 520(+/-10) ... 1730(+/-20) KHz

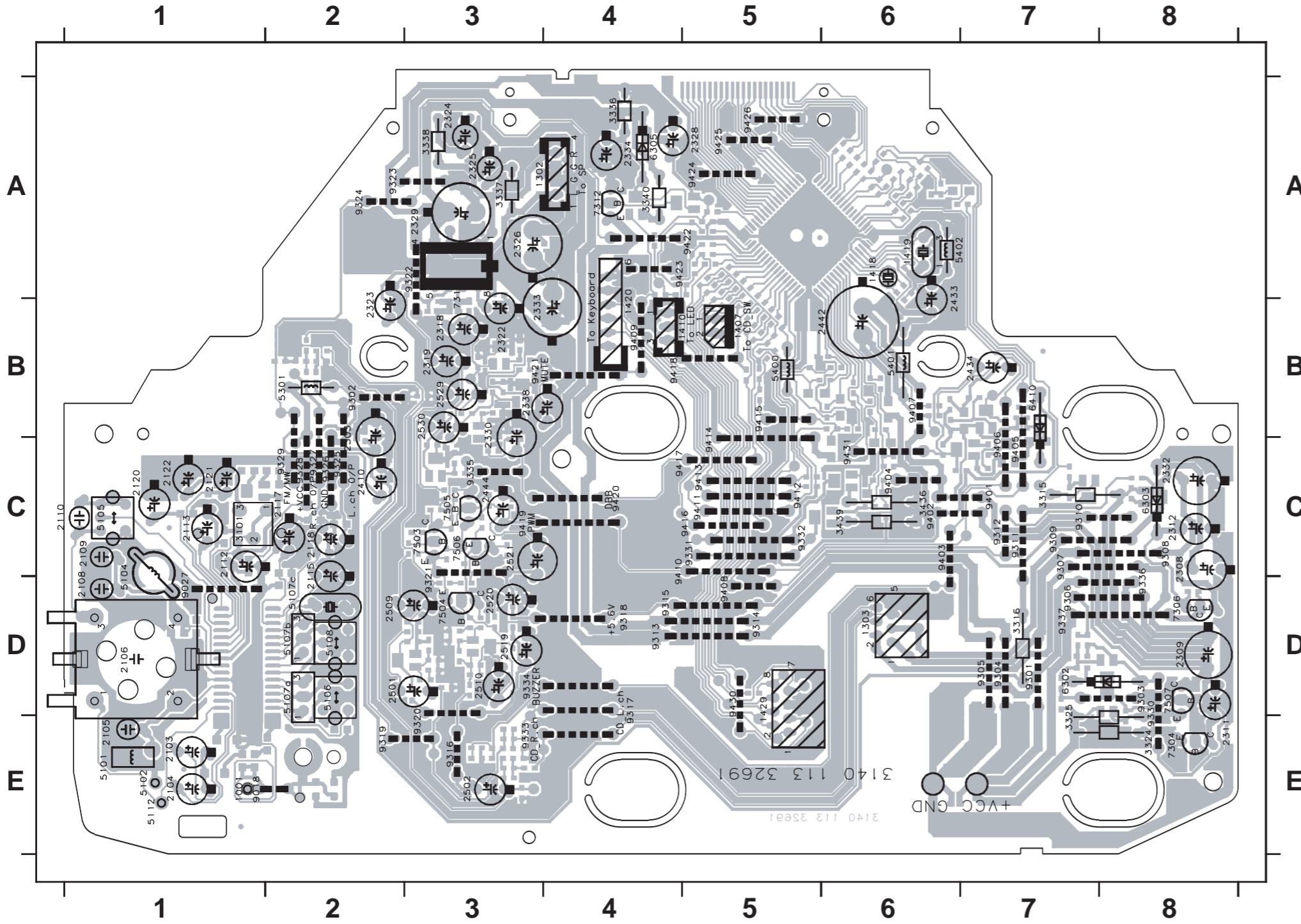
- 1001 A4
- 1104 E3
- 1110 B11
- 2101 A4
- 2102 A4
- 2103 D4
- 2104 G7
- 2105 A5
- 2106 F10
- 2108 C3
- 2109 C3
- 2110 D2
- 2112 D11
- 2113 F8
- 2114 G8
- 2115 G7
- 2116 C9
- 2117 C10
- 2118 B10
- 2119 C9
- 2120 G8
- 2121 A8
- 2122 B8
- 3101 A9
- 3102 B9
- 3104 A8
- 3108 D11
- 3109 C10
- 3110 C10
- 3113 G9
- 3114 C2
- 3120 A10
- 3121 A9
- 5100 A3
- 5101 A5
- 5102 G3
- 5104 C4
- 5105 D3
- 5106 F5
- 5107a A6
- 5107b A7
- 5107c A7
- 5108 F7
- 5111 E4
- 6101 A2
- 6102 A3
- 7101 B5
- 7102 A9
- 9018 A2
- 9020 E3
- 9021 F3
- T001 E4
- T002 B3
- T003 A3
- T004 B11
- T005 C11
- T006 E9
- T007 B11
- T008 C11
- T009 B11
- T010 F8
- T012 G2
- T013 F2



BAND	+FM
AM	Lo
FM	Hi

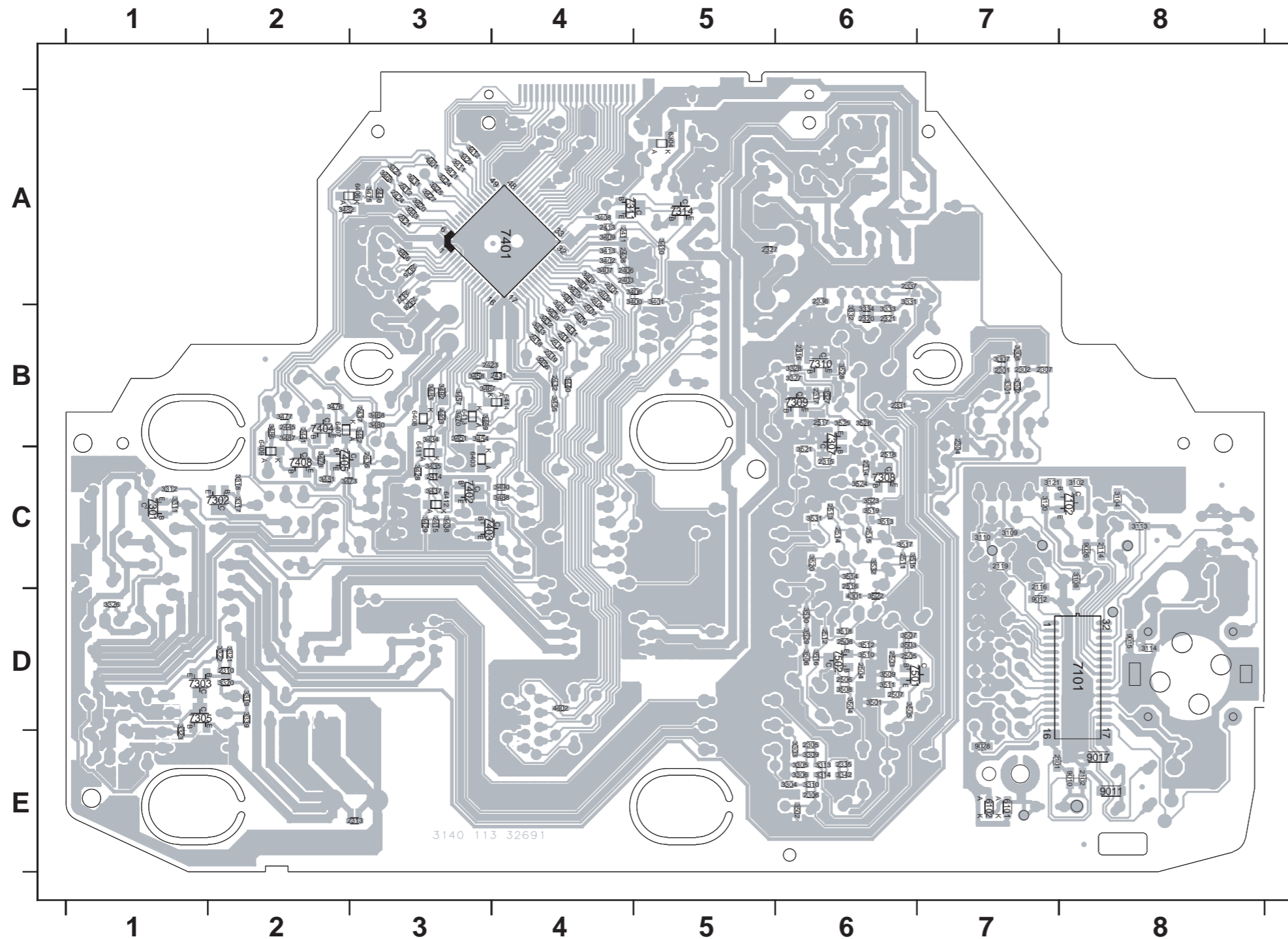


**MAIN BOARD - LAYOUT DIAGRAM
(COMPONENT SIDE)**



1001	E1	2434	B7	7503	C3	9402	C6
1302	A3	2442	B6	7504	D3	9403	C6
1303	D6	2444	C3	7505	C3	9404	C6
1407	B5	2501	D2	7506	C3	9405	C7
1410	B4	2502	E3	7507	D8	9406	C7
1418	A6	2509	D2	9018	E2	9407	B6
1419	A6	2510	D3	9027	D1	9408	D5
1420	B4	2519	D3	9301	D7	9409	B4
1429	D5	2520	D3	9302	B2	9410	C4
2103	E1	2521	C3	9303	D8	9411	C5
2104	E1	2529	B3	9304	D7	9412	C5
2105	E1	2530	B3	9305	D7	9413	C5
2106	D1	3101	C1	9306	D7	9414	C5
2108	D1	3315	C7	9307	C7	9415	B5
2109	C1	3316	D7	9308	C8	9416	C5
2110	C1	3324	E8	9309	C7	9417	C4
2112	C1	3325	E7	9310	C7	9418	B4
2113	C1	3336	A4	9311	C7	9419	C3
2115	D2	3337	A3	9312	C7	9420	C4
2117	C2	3338	A3	9313	D4	9421	B3
2118	C2	3340	A4	9314	D5	9422	A4
2120	C1	3436	C6	9315	D4	9423	A4
2121	C1	3439	C6	9316	E3	9424	A5
2122	C1	5101	E1	9317	D4	9425	A5
2303	C2	5102	E1	9318	D4	9426	A5
2308	C8	5104	D1	9319	E2	9430	D5
2309	D8	5105	C1	9320	E3	9431	C6
2311	E8	5106	D2	9321	D3		
2312	C8	5107a	D2	9322	A3		
2318	B3	5107b	D2	9323	A2		
2319	B3	5107c	D2	9324	A2		
2322	B3	5108	D2	9325	C2		
2323	B2	5112	E1	9326	C2		
2324	A3	5301	B2	9327	C2		
2325	A3	5400	B5	9328	C2		
2326	A3	5401	B6	9329	C2		
2328	A5	5402	A6	9330	D8		
2329	A3	6302	D7	9331	C5		
2330	B3	6303	C8	9332	C5		
2332	C8	6305	A4	9333	E3		
2333	B3	6410	B7	9334	D3		
2334	A4	7304	E8	9335	C3		
2338	B3	7306	D8	9336	D8		
2410	C2	7312	A4	9337	D7		
2433	B6	7313	A3	9401	C7		

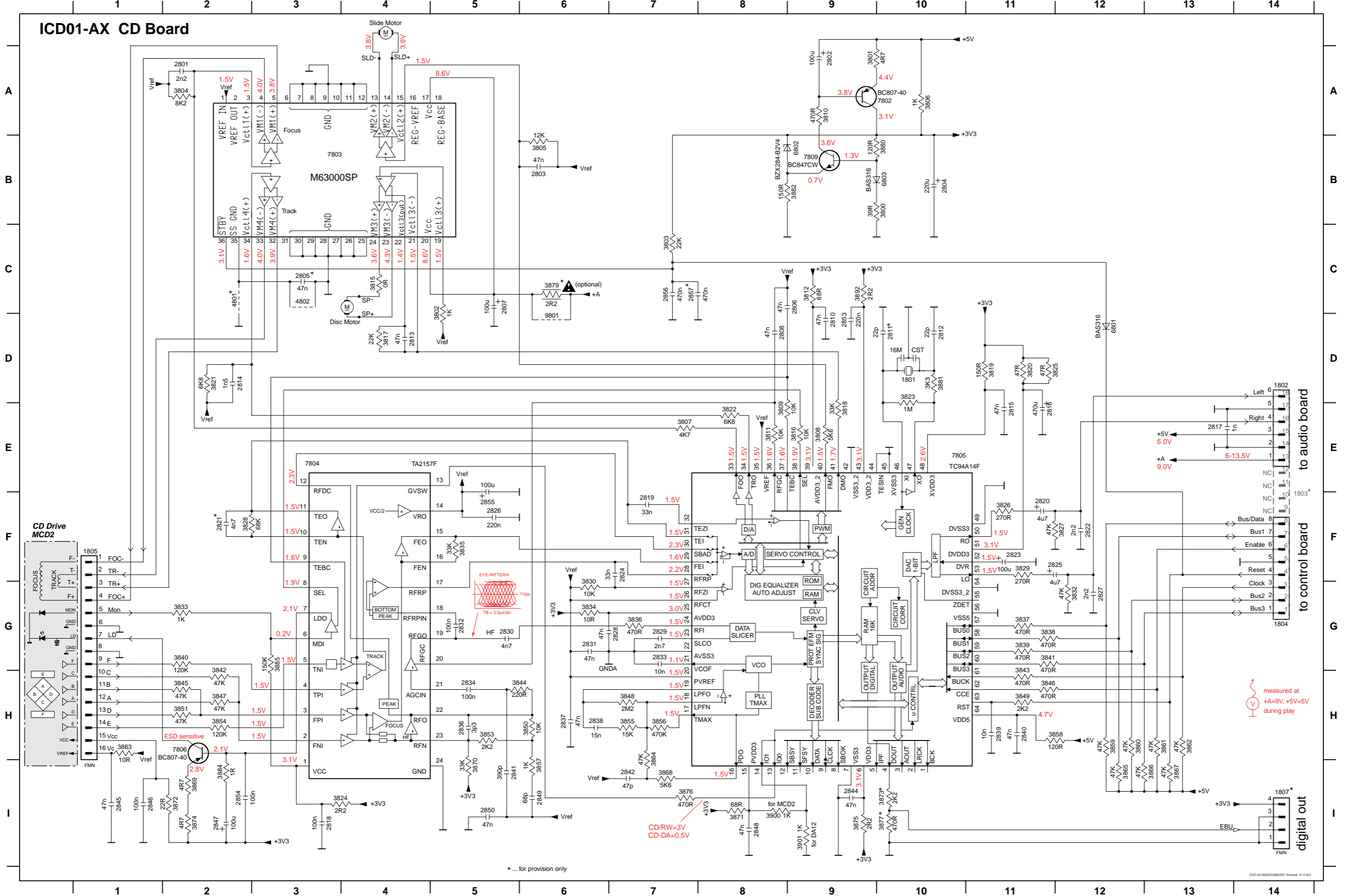
MAIN BOARD - CIRCUIT DIAGRAM
(COPPER SIDE)



2101 E7	2407 B4	3311 C1	3434 B3	3516 D6
2102 E8	2408 A4	3312 C1	3435 C3	3517 C6
2114 C8	2409 B4	3313 E6	3437 C3	3518 D6
2116 C7	2411 A4	3314 E6	3438 C3	3519 C6
2119 C7	2412 A3	3317 C2	3440 B4	3520 C6
3102 C7	2413 A4	3318 C2	3441 B4	3521 C6
3104 C8	2414 C3	3319 D2	3442 B3	3522 D6
3108 D7	2415 C3	3320 D2	3443 A3	3523 C6
3109 C7	2416 B4	3321 D2	3451 B3	3524 C6
3110 C7	2417 B4	3322 D2	3454 B3	3525 B6
3113 C8	2418 B4	3323 E1	3455 B4	3526 B6
3114 D8	2419 B4	3326 D1	3456 B4	3527 B6
3120 C7	2421 A3	3327 B6	3457 B3	3528 B6
3121 C7	2423 B3	3328 B6	3458 B3	3529 D6
6101 E7	2424 A3	3331 A6	3465 A3	3530 D6
6102 E7	2425 A3	3332 B6	3466 A3	3531 C6
7101 D7	2427 A3	3333 B6	3467 B3	3532 C6
7102 C7	2428 A3	3334 B6	3468 B3	4301 D6
9010 E7	2431 B4	3339 D2	3469 B3	4401 A3
9011 E8	2432 B4	3342 E6	3470 B3	4402 E4
9012 D7	2436 C3	3400 A5	3473 C2	4403 B3
9015 D8	2437 B3	3401 A5	3475 A3	6304 A5
9017 E8	2440 A3	3402 A4	3476 B2	6403 C3
9026 C8	2441 B2	3403 A4	3477 B2	6406 A2
9028 E7	2445 B2	3404 A4	3478 C2	6407 B2
2301 B7	2503 D6	3405 A4	3480 B3	6408 B3
2302 B7	2504 D6	3406 A5	3481 C2	6409 C2
2304 B7	2505 D6	3407 A4	3482 A2	6411 B3
2305 E6	2506 D6	3408 A4	3483 B3	6412 C3
2306 E6	2507 D6	3409 A4	3486 B2	6413 B3
2307 B7	2508 D6	3410 A5	3487 B2	6414 B4
2310 D2	2511 C6	3411 A3	3488 C4	7301 C1
2313 E3	2512 D6	3412 A3	3490 C4	7302 C2
2314 C6	2513 C6	3413 A4	3492 B3	7303 D1
2315 C6	2514 C6	3415 A4	3501 D6	7305 D1
2316 B6	2515 C6	3416 B4	3502 E6	7307 B6
2317 B6	2516 C6	3420 A3	3503 D6	7308 C6
2320 B6	2517 B6	3421 A3	3504 D6	7309 B6
2321 B6	2518 C6	3422 A3	3505 D6	7310 B6
2327 A5	3301 B7	3423 A3	3506 D6	7311 A4
2331 B6	3302 B7	3424 A3	3507 D6	7314 A5
2335 E6	3303 E6	3425 A3	3508 D6	7401 A4
2336 A6	3304 E6	3427 A3	3509 D6	7402 C3
2337 A6	3305 E6	3428 C3	3510 D6	7403 C3
2401 A4	3306 E6	3429 C3	3511 D6	7404 B2
2402 A4	3307 B7	3430 B4	3512 D6	7405 C2
2403 A4	3308 B7	3431 A3	3513 C6	7408 C2
2405 A4	3309 E6	3432 B4	3514 C6	7501 D6
2406 A4	3310 E6	3433 B4	3515 C6	7502 D6

IC D01-AX CD Board - CIRCUIT DIAGRAM

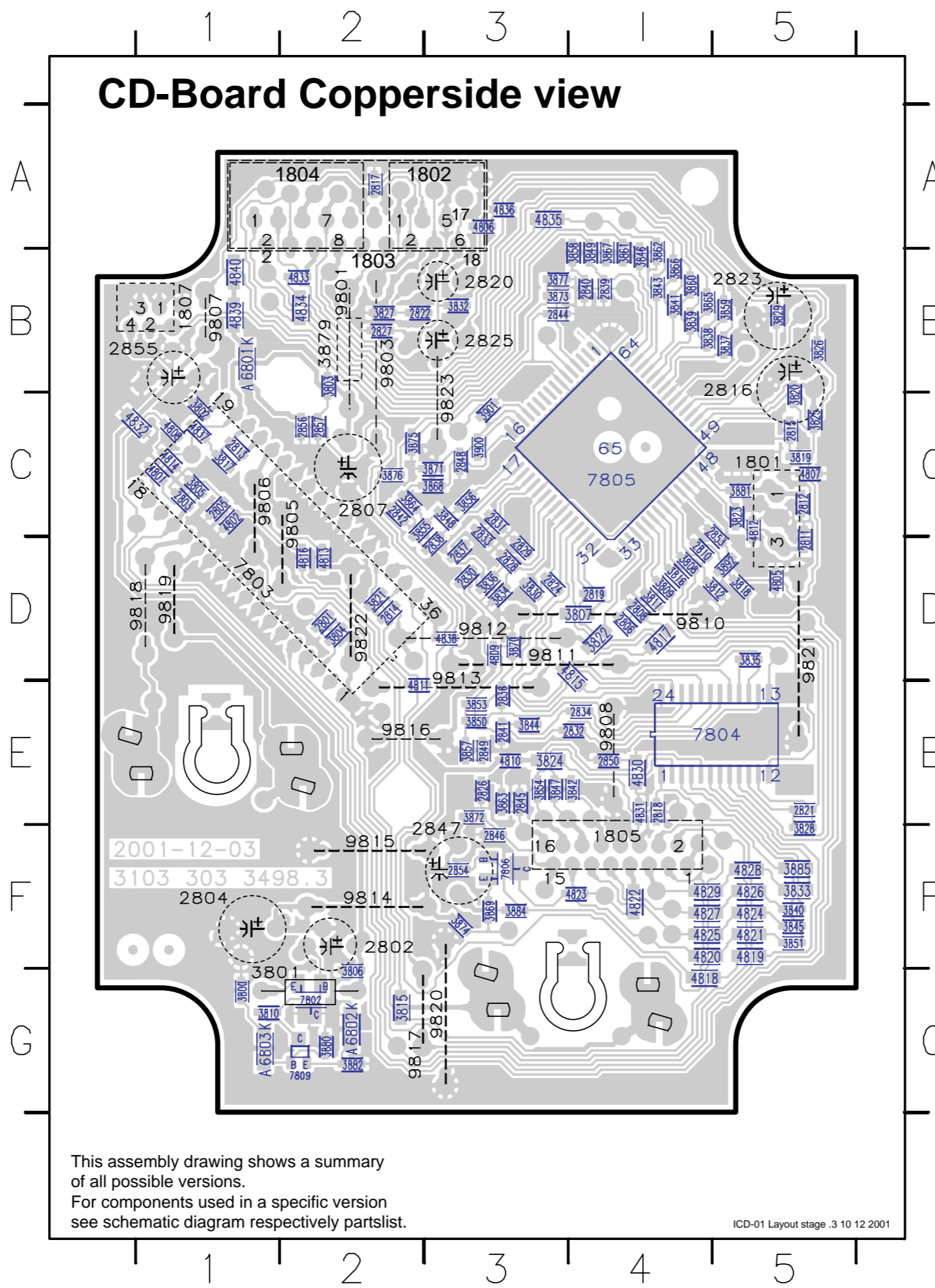
1801 D10	1807 I14	2805 C3	2811 D10	2816 E11	2821 F2	2826 F5	2831 G6	2837 H6	2842 I7	2848 J8	2855 F5	3802 C5	3807 E7	3812 C9	3819 D11	3824 I3	3829 F11	3830 G6	3836 G7	3840 G2	3845 H2	3850 H6	3856 H7	3861 H13	3866 I13	3871 I8	3876 I7	3882 B9	3901 I8	6803 B10	7806 H2	SP D3
1802 D14	2801 A2	2806 C9	2812 D10	2817 E13	2822 F12	2827 G12	2832 G5	2838 H6	2844 I9	2849 J6	2856 C7	3803 C7	3808 E9	3815 C4	3820 D11	3825 D11	3830 G6	3836 G7	3841 G11	3846 H11	3851 H2	3857 I6	3862 H13	3867 I13	3872 I2	3877 I10	3884 I2	4801 C2	6802 A10	7802 A10	7809 B9	SP+ D4
1803 D14	2802 A9	2807 C5	2813 D4	2818 I3	2823 F11	2828 G7	2833 G7	2839 H11	2845 I1	2850 J5	2857 C7	3804 A2	3809 E8	3816 E9	3821 D2	3826 F11	3832 G12	3837 G11	3842 H2	3847 H2	3853 H5	3858 H12	3863 H13	3868 I7	3873 I10	3879 C6	3885 G3	4802 C3	6801 D12	7803 B3	9801 D6	
1804 F14	2803 B6	2808 D8	2814 D2	2819 F7	2824 F7	2829 G7	2834 H5	2840 H11	2846 I1	2853 D9	3800 B10	3805 B6	3810 A9	3817 D4	3822 E8	3827 F12	3833 G2	3838 G11	3843 H11	3848 H7	3854 H2	3859 H12	3864 H7	3869 I2	3874 I2	3880 B10	3892 C9	4803 C3	6801 D12	7804 E3	9801 D6	
1805 F1	2804 B10	2810 D9	2815 E11	2820 F11	2825 F11	2830 G5	2836 H5	2841 I5	2847 I2	2854 I2	3801 A9	3806 A10	3811 E8	3818 E9	3823 D10	3828 F2	3834 G6	3839 G11	3844 H5	3849 H11	3855 H7	3860 H12	3865 I12	3870 I5	3875 I9	3881 D10	3900 I9	6802 B9	7805 E10	9801 D6	SLD+ A4	



* ... for provision only

measured at +A=9V, +5V=5V during play

IC D01-AX CD Board - LAYOUT DIAGRAM



This assembly drawing shows a summary of all possible versions. For components used in a specific version see schematic diagram respectively partlist.

ICD-01 Layout stage_3 10 12 2001

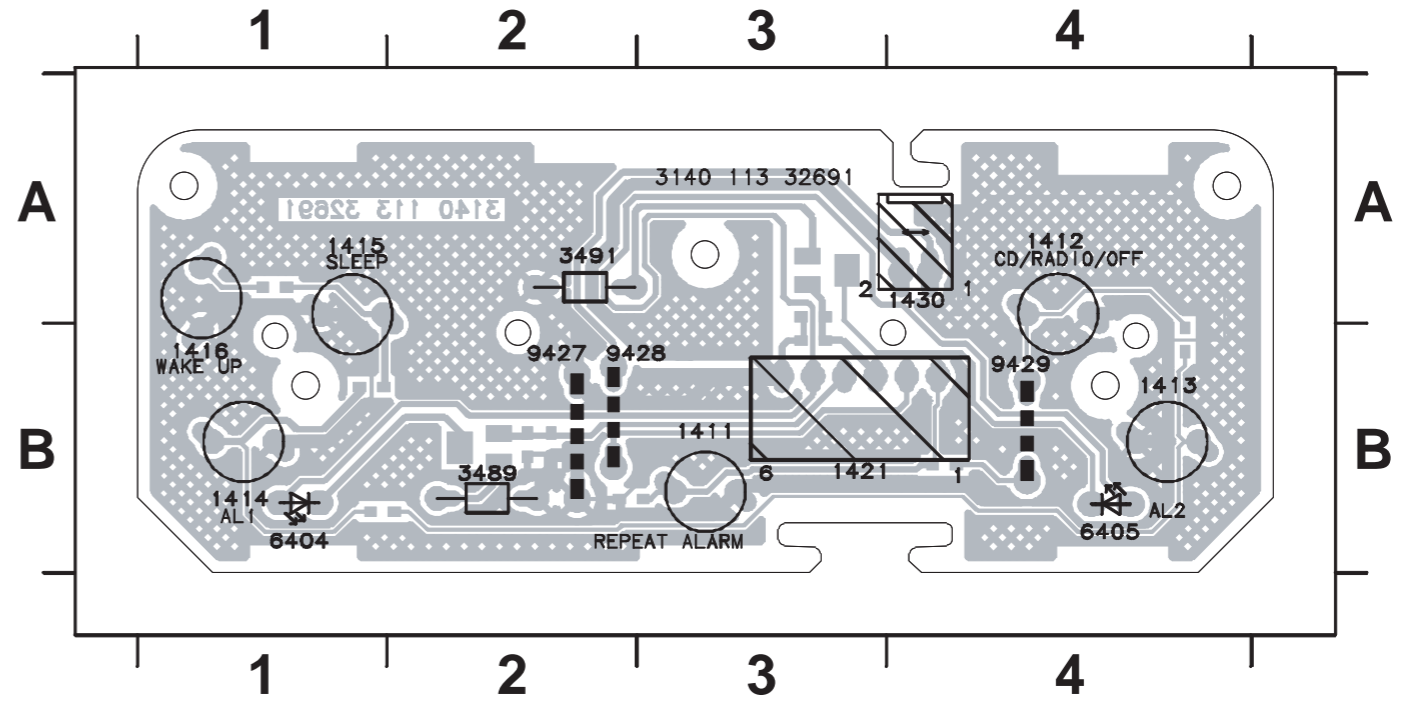
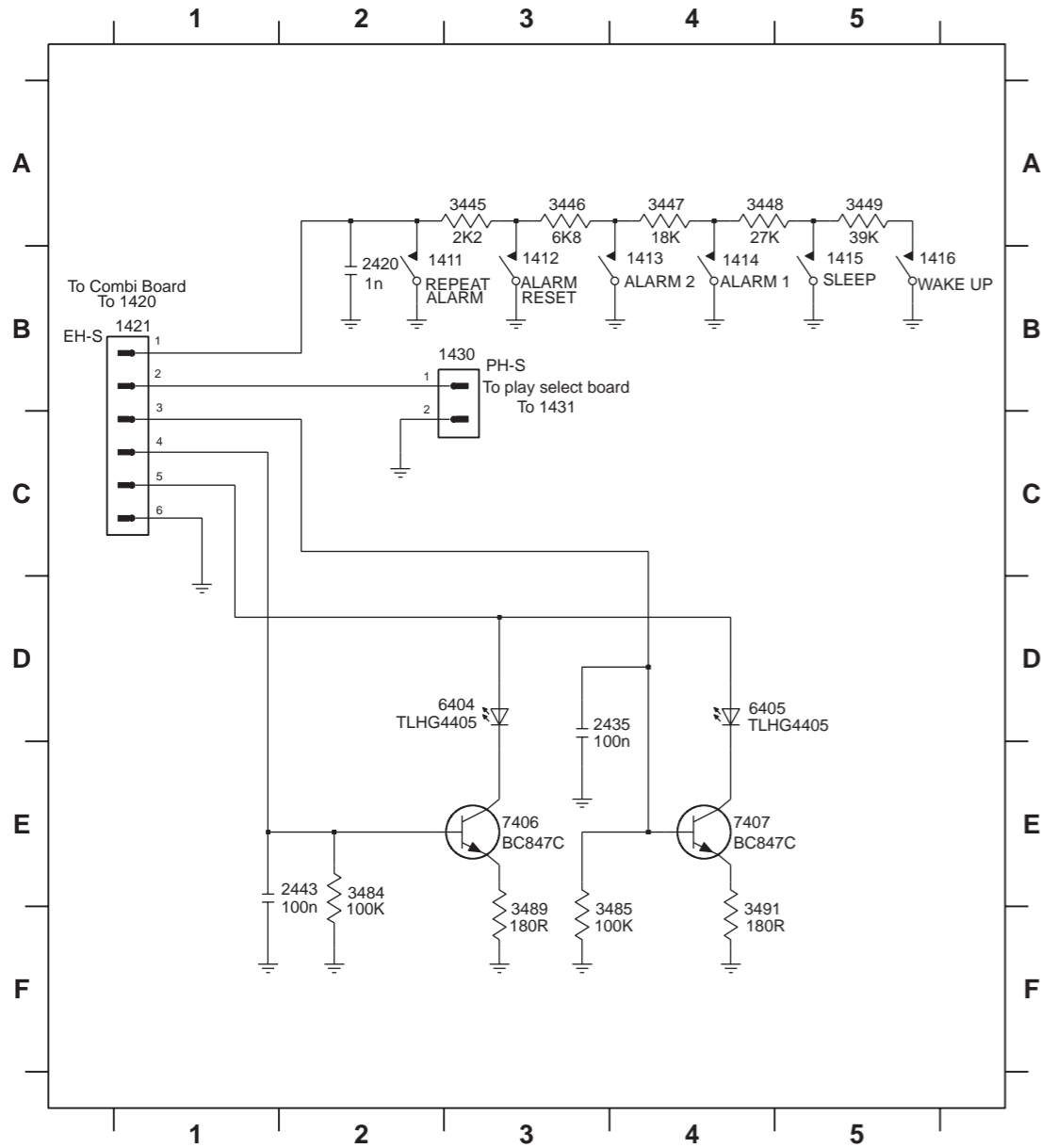
1801 C5	3812 D5	3901 C3
1802 A3	3815 G2	4801 C1
1803 B2	3816 D4	4802 C1
1804 A2	3817 C1	4805 D5
1805 F4	3818 D5	4806 A3
1807 B1	3819 C5	4807 C5
2801 D2	3820 C5	4808 C1
2802 F2	3821 D2	4809 D3
2803 C1	3822 D4	4810 E3
2804 F1	3823 C5	4811 E2
2805 C1	3824 E3	4812 C5
2806 D4	3825 C5	4813 D2
2807 C2	3826 B5	4814 C1
2808 D4	3827 B2	4815 D4
2810 D4	3828 F5	4816 D2
2811 D5	3829 B5	4817 D4
2812 C5	3830 D3	4818 G4
2813 C1	3832 B3	4819 F5
2814 D2	3833 F5	4820 F4
2815 C5	3834 D3	4821 F5
2816 B5	3835 D5	4822 F4
2817 A2	3836 D3	4823 F4
2818 E4	3837 B5	4824 F5
2819 D4	3838 B4	4825 F4
2820 B3	3839 B4	4826 F5
2821 E5	3840 F5	4827 F4
2822 B2	3841 B4	4828 F5
2823 B5	3842 E4	4829 F4
2824 D3	3843 B4	4830 E4
2825 B3	3844 E3	4831 E4
2826 E3	3845 F5	4832 C1
2827 B2	3846 B4	4833 B2
2828 D3	3847 E3	4834 B2
2829 D3	3848 C3	4835 A3
2830 D3	3849 B4	4836 A3
2831 C3	3850 E3	4837 C1
2832 E4	3851 F5	4838 D3
2833 C3	3853 E3	4839 B1
2834 E4	3854 E3	4840 B1
2836 E3	3855 C2	6801 B1
2837 D3	3856 C3	6802 G2
2838 D3	3857 E3	6803 G1
2839 B4	3858 B4	7802 G2
2840 B4	3859 B5	7803 D1
2841 E3	3860 B4	7804 E5
2842 C2	3861 B4	7805 C4
2844 B3	3862 B4	7806 F3
2845 E3	3863 E3	7809 G2
2846 F3	3864 C2	9801 B2
2847 F3	3865 B4	9803 B2
2848 C3	3866 B4	9805 C2
2849 E3	3867 B4	9806 C1
2850 E4	3868 C3	9807 B1
2853 C5	3869 F3	9808 E4
2854 F3	3870 D3	9810 D4
2855 C1	3871 C3	9811 D3
2856 C2	3872 E3	9812 D3
2857 C2	3873 B3	9813 D3
3800 G1	3874 F3	9814 F2
3801 G2	3875 C2	9815 F2
3802 C1	3876 C2	9816 E2
3803 B2	3877 B3	9817 G2
3804 D2	3879 B2	9818 D1
3805 C1	3880 G2	9819 D1
3806 G2	3881 C5	9820 G3
3807 D4	3882 G2	9821 D5
3808 D4	3884 F3	9822 D2
3809 D4	3885 F5	9823 C3
3810 G1	3892 D5	
3811 D4	3900 C3	

ALARM BOARD - CIRCUIT DIAGRAM

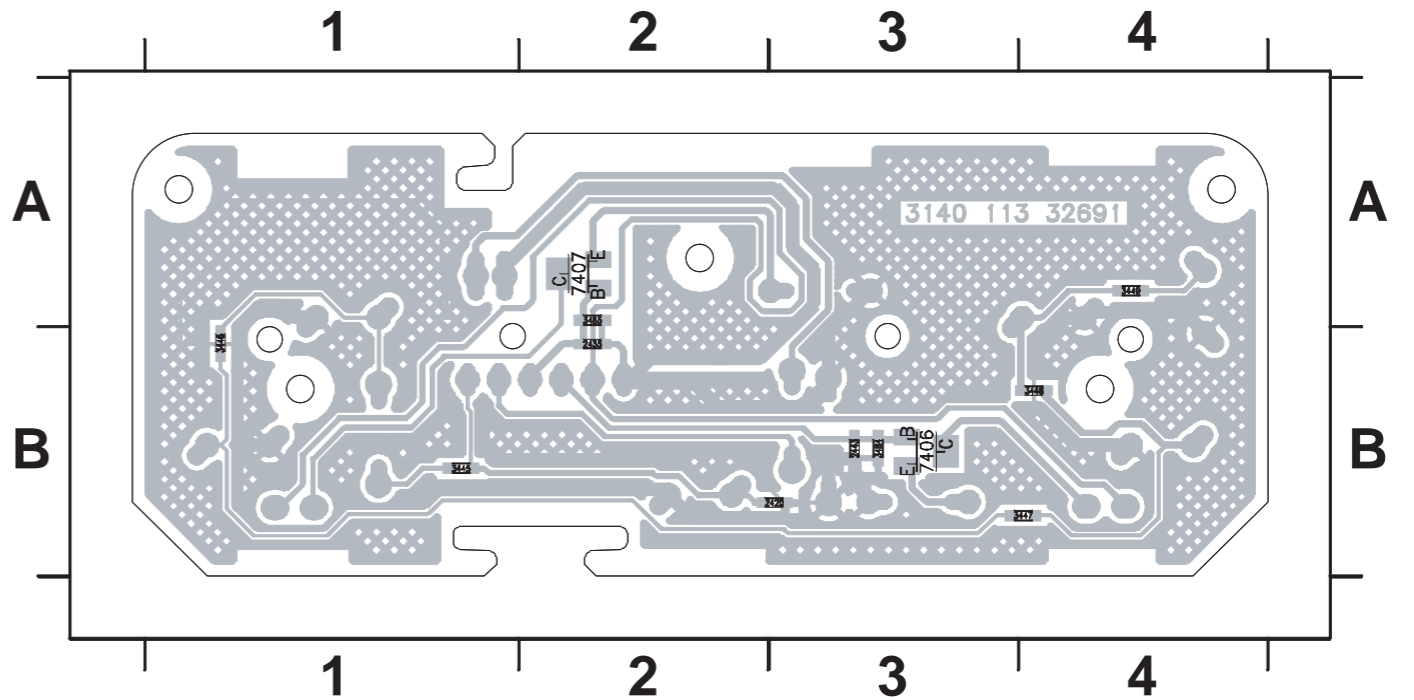
ALARM BOARD - LAYOUT DIAGRAM

1411 B3	1414 B4	1421 B1	2435 D4	3446 A3	3449 A5	3489 F3	6405 D4
1412 B3	1415 B5	1430 B2	2443 E2	3447 A4	3484 E2	3491 F4	7406 E3
1413 B4	1416 B5	2420 B2	3445 A3	3448 A4	3485 F4	6404 D3	7407 E4

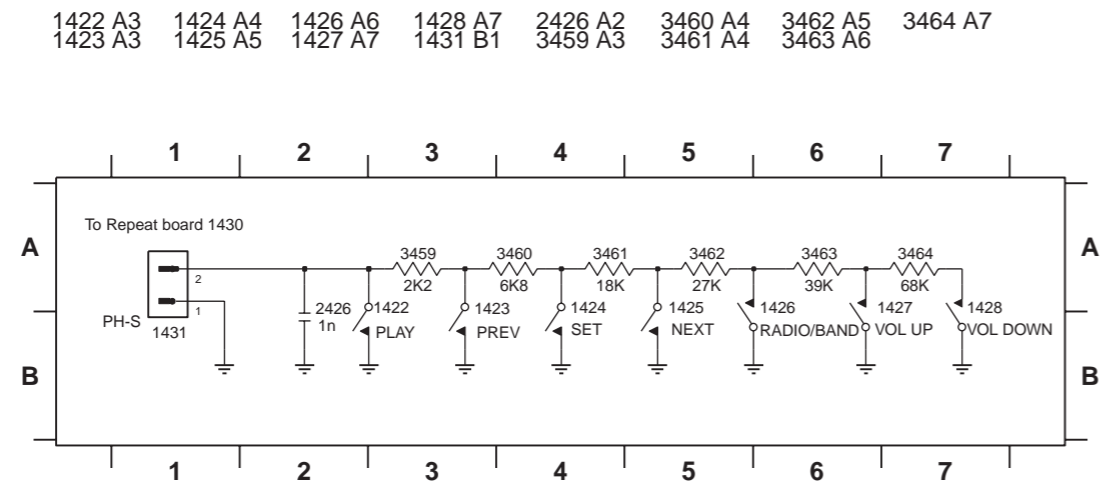
1411 B3	1414 B1	1421 B3	3491 A2	9427 B2
1412 A4	1415 A1	1430 A4	6404 B1	9428 B2
1413 B4	1416 B1	3489 B2	6405 B4	9429 B4



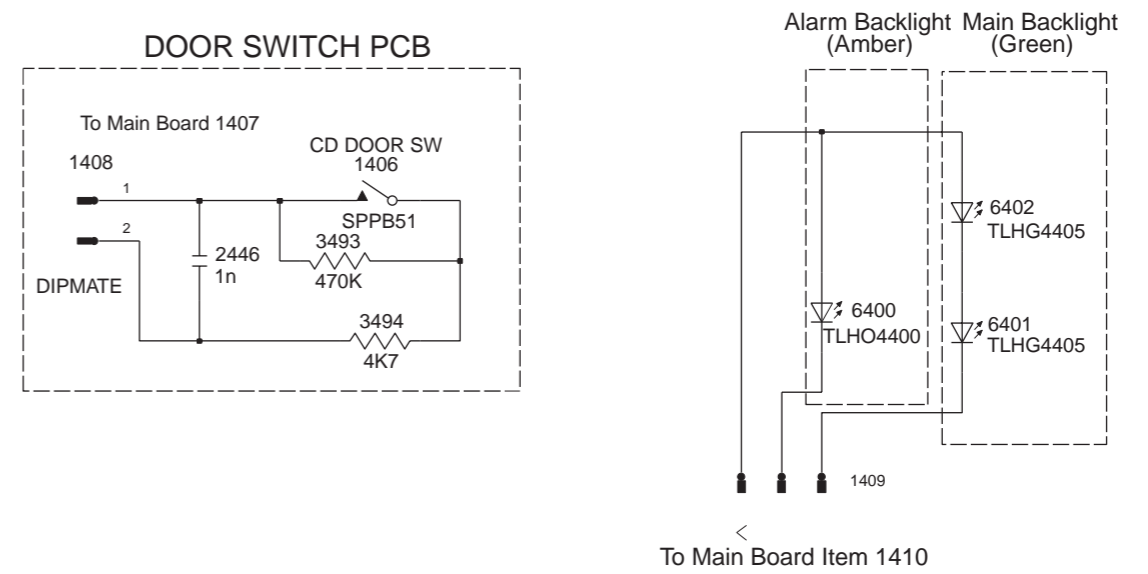
2420 B3	2443 B3	3446 B1	3448 B4	3484 B3	7406 B3
2435 B2	3445 B1	3447 B4	3449 A4	3485 A2	7407 A2



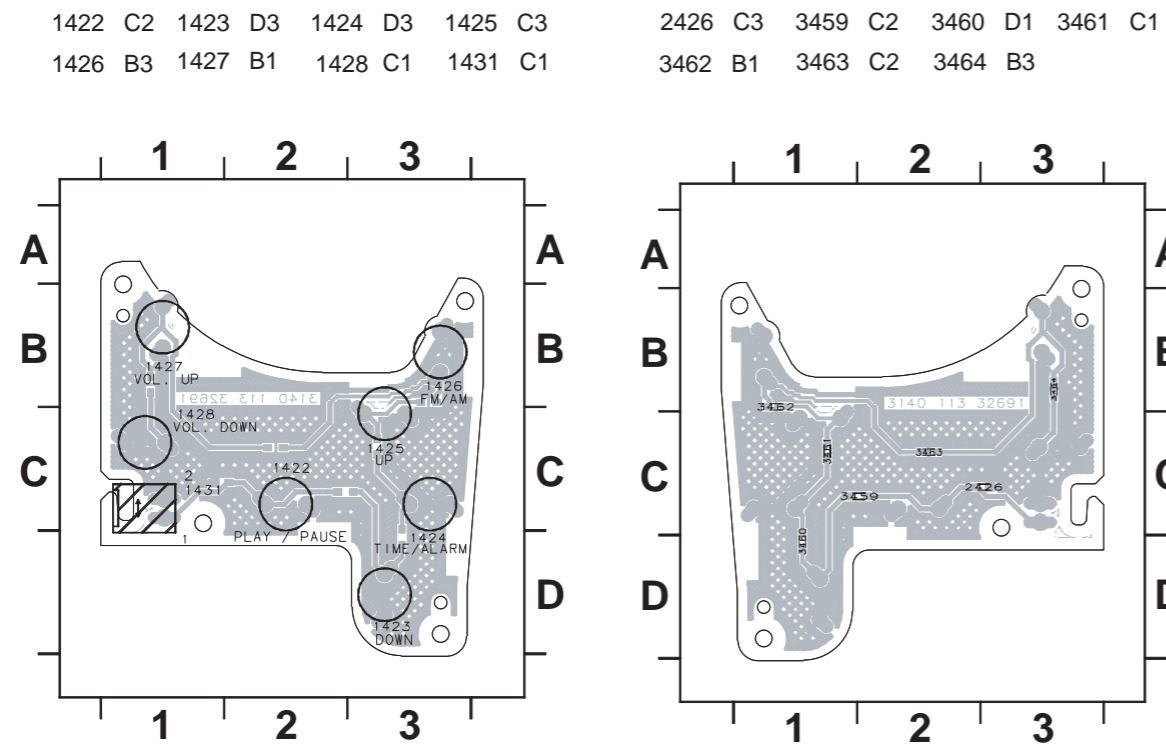
PLAY SELECT BOARD -CIRCUIT DIAGRAM



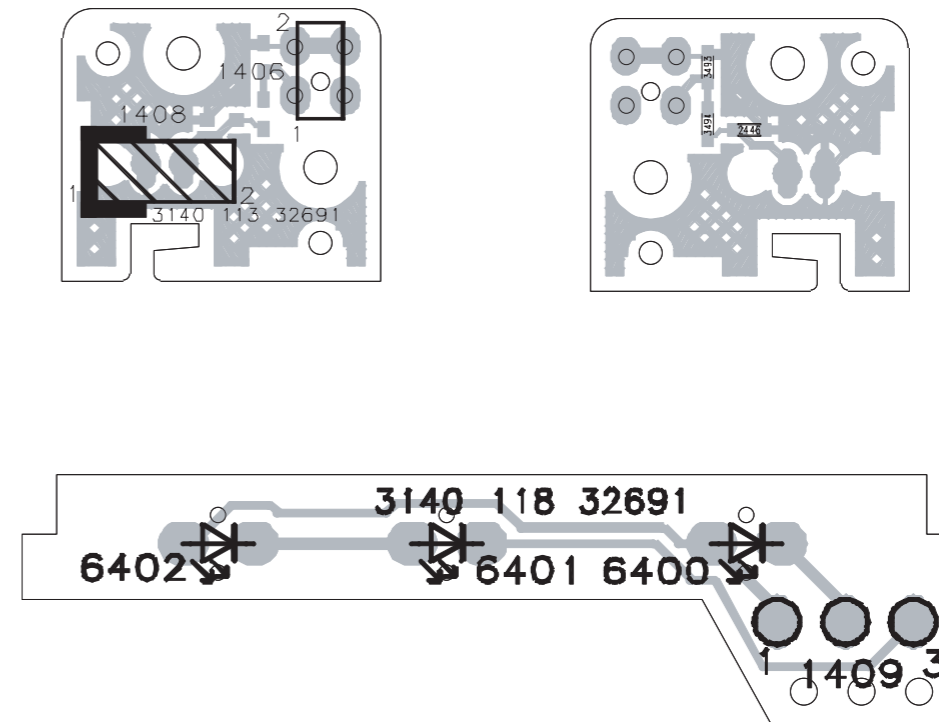
CD DOOR SWITCH BOARD - CIRCUIT DIAGRAM



PLAY SELECT BOARD - LAYOUT DIAGRAM



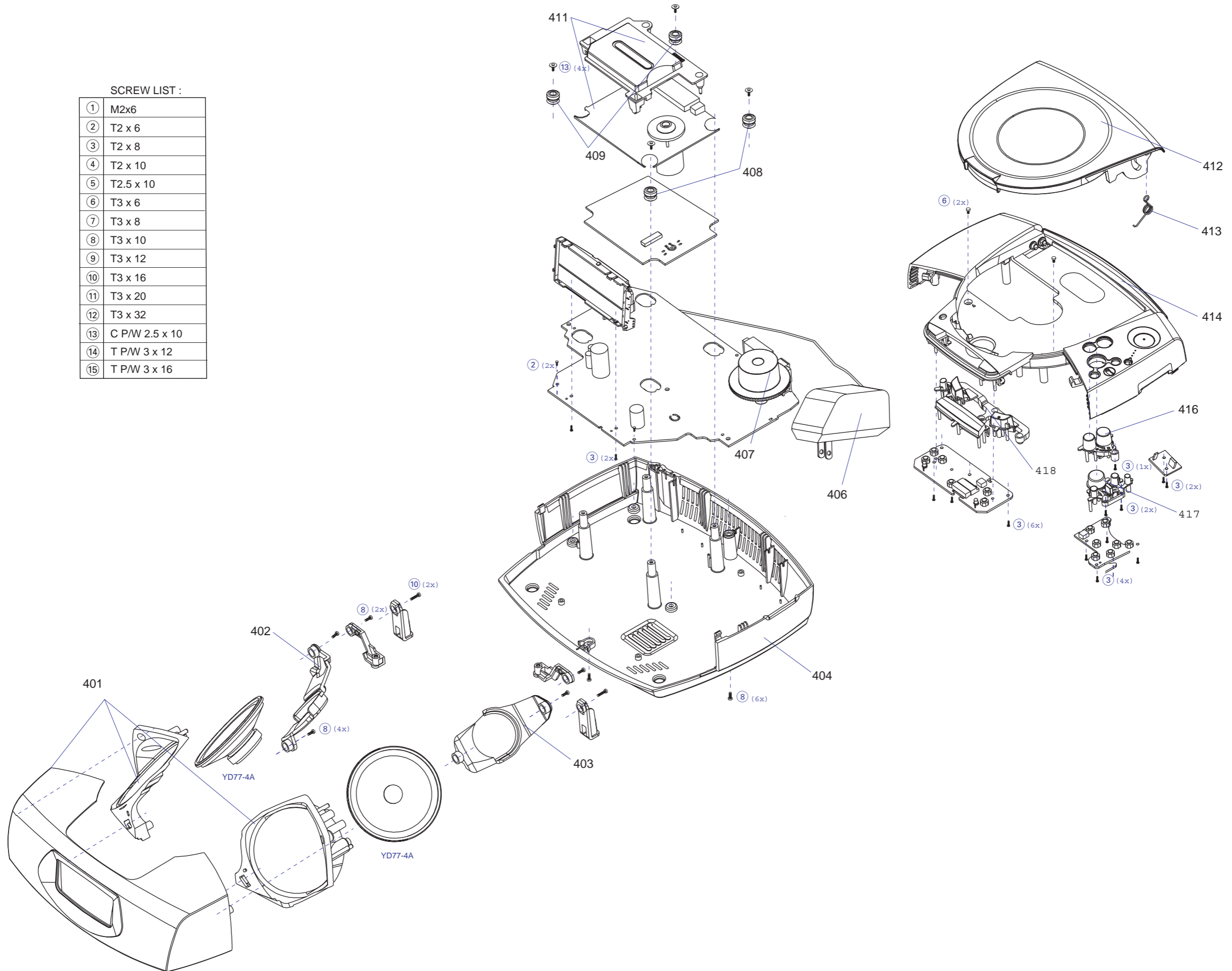
CD DOOR SWITCH BOARD - LAYOUT DIAGRAM



EXPLODED VIEW DIAGRAM - CABINET

SCREW LIST :

①	M2x6
②	T2 x 6
③	T2 x 8
④	T2 x 10
⑤	T2.5 x 10
⑥	T3 x 6
⑦	T3 x 8
⑧	T3 x 10
⑨	T3 x 12
⑩	T3 x 16
⑪	T3 x 20
⑫	T3 x 32
⑬	C P/W 2.5 x 10
⑭	T P/W 3 x 12
⑮	T P/W 3 x 16



MECHANICAL PARTSLIST - CABINET

401	3140 117 62850	FRONT CABINET ASS'Y
401	3140 117 62610	FRONT CABINET ASS'Y(for MCR220BK/17 only)
402	3140 114 41780	BRACKET - MOUNTING SPEAKER (L)
403	3140 114 41790	BRACKET - MOUNTING SPEAKER (R)
404	3140 114 44160	CABINET-BOTTOM(for AJ3970/00 only)
404	3140 114 44170	CABINET-BOTTOM(for AJ3970/05 only)
404	3140 114 41730	CABINET - BOTTOM(for MCR220BK/17 only)
406	3140 118 33340	AC/DC ADAPTER(for AJ3970/00 only)
406	3140 118 33350	AC/DC ADAPTER(for AJ3970/05 only)
406	3140 118 33270	AC/DC ADAPTER(for MCR220BK/17 only)
407	3140 114 41590	KNOB - TUNING
407	3140 114 44110	KNOB -TUNING(for MCR220BK/17 only)
408	4822 529 10386	DAMPER - RUBBER (30 DEG)
409	4822 529 10387	DAMPER - RUBBER (40 DEG)
411	3103 309 05410	CD MCD2-SC ASSY
412	3140 114 41660	DOOR - CD
412	3140 114 45000	DOOR - CD(for MCR220BK/17 only)
413	3140 111 01200	SPRING - CD DOOR
414	3140 117 62840	TOP CABINET ASS'Y
414	3140 117 62600	TOP CABINET ASS'Y(for MCR220BK/17 only)
416	3140 114 41680	BUTTONSET - VOLUME
417	3140 114 41690	BUTTONSET - PLAY
418	3140 114 41700	BUTTONSET - REPEAT ALARM

**Note:Only these parts mentioned in the list are
normal service parts.**

ELECTRICAL PARTSLIST - COMBI BOARD**- MISCELLANEOUS -**

1003	4822 240 10041	LOUDSPEAKER D77 8 OHM
1004	4822 240 10041	LOUDSPEAKER D77 8 OHM
1005	3140 110 51590	LCD DISPLAY
1006	⚠ 3140 118 33340	AC/DC ADAPTER/00
1006	⚠ 3140 118 33350	AC/DC ADAPTER /05
1006	⚠ 3140 118 33270	AC/DC ADAPTER /17
1201	2422 549 44211	FERRITE BAR 5X13X55
1303	4822 265 11207	CONNECTOR SOCKET 6P
1406	4822 276 12889	SWITCH SPPB51
1411	2422 128 02917	SWITCH-TACT 1P
1412	2422 128 02917	SWITCH-TACT 1P
1413	2422 128 02917	SWITCH-TACT 1P
1414	2422 128 02917	SWITCH-TACT 1P
1415	2422 128 02917	SWITCH-TACT 1P
1416	2422 128 02917	SWITCH-TACT 1P
1418	4822 242 81598	CRYSTAL 32,768KHZ
1419	2422 540 98455	RES CER 4,194MHZ
1422	2422 128 02917	SWITCH-TACT 1P
1423	2422 128 02917	SWITCH-TACT 1P
1424	2422 128 02917	SWITCH-TACT 1P
1425	2422 128 02917	SWITCH-TACT 1P
1426	2422 128 02917	SWITCH-TACT 1P
1427	2422 128 02917	SWITCH-TACT 1P
1428	2422 128 02917	SWITCH-TACT 1P
1429	4822 265 11535	CONNECTOR SOCKET 8P
8303	3139 110 35210	FFC FOIL 06P/080/06P AD
8402	3140 110 22150	LCD HEAT SEAL CABLE
8429	3139 110 34840	FFC FOIL 08P/100/08P AD

- CAPACITORS -

2101	4822 126 13193	4,7nF 10% X7R 63V
2102	4822 122 33777	47pF 5% NP0 63V
2103	4822 124 40248	10µF 20% 63V
2104	4822 124 40248	10µF 20% 63V
2105	4822 126 12814	24pF 5% N220 50V
2106	2020 801 00085	CAP TUN LAI-160B82
2108	2020 552 92746	20pF 5% N1000 50V
2109	2020 552 95949	2,2pF 0,25%N1000 50V
2110	4822 126 12229	8,2pF 1% N750 50V
2112	4822 124 40433	47µF 20% 25V
2113	4822 124 40746	0,22µF 20% 63V
2114	4822 126 14241	330pF 10% NP0 50V
2115	4822 124 40769	4,7µF 20% 100V
2116	3198 017 31530	15nF 10% X7R 50V
2117	4822 124 21913	1µF 20% 63V
2118	4822 124 21913	1µF 20% 63V
2119	3198 017 31530	15nF 10% X7R 50V
2120	4822 124 21913	1µF 20% 63V
2121	4822 124 21913	1µF 20% 63V
2122	4822 124 41407	0,47µF 20% 63V

- CAPACITORS -

2303	4822 124 40196	220µF 20% 16V
2304	5322 126 11583	10nF 10% X7R 50V
2305	4822 126 13881	470pF 5% 50V
2306	4822 126 13881	470pF 5% 50V
2307	5322 126 11583	10nF 10% X7R 50V
2308	4822 124 40196	220µF 20% 16V
2309	4822 124 80195	470µF 20% 10V
2310	5322 126 11578	1nF 10% X7R 50V
2311	4822 124 40433	47µF 20% 25V
2312	4822 124 40433	47µF 20% 25V
2313	2238 586 59812	100nF +80-20% Y5V 50V
2314	3198 024 44730	47nF Y5V 50V 0603
2315	3198 024 44730	47nF Y5V 50V 0603
2316	3198 024 44730	47nF Y5V 50V 0603
2317	3198 024 44730	47nF Y5V 50V 0603
2318	4822 124 21913	1µF 20% 63V
2319	4822 124 21913	1µF 20% 63V
2320	5322 126 11578	1nF 10% X7R 50V
2321	5322 126 11578	1nF 10% X7R 50V
2322	4822 124 40207	100µF 20% 25V
2323	4822 124 40207	100µF 20% 25V
2324	4822 124 41407	0,47µF 20% 63V
2325	4822 124 41407	0,47µF 20% 63V
2326	4822 124 81144	1000U 20% 16V
2327	2238 586 59812	100nF +80-20% Y5V 50V
2328	4822 124 40433	47µF 20% 25V
2329	4822 124 81144	1000U 20% 16V
2330	4822 124 81151	22µF 20% 50V
2331	5322 126 11578	1nF 10% X7R 50V
2332	4822 124 80791	470µF 20% 16V
2333	4822 124 81144	1000U 20% 16V
2334	4822 124 40433	47µF 20% 25V
2335	3198 024 44730	47nF Y5V 50V 0603
2336	4822 126 13193	4,7nF 10% X7R 63V
2336	5322 126 11578	1nF 10% X7R 50V
2337	4822 126 13193	4,7nF 10% X7R 63V
2337	5322 126 11578	1nF 10% X7R 50V
2338	4822 124 81151	22µF 20% 50V
2401	4822 122 33741	10pF 10% NP0 50V
2402	4822 122 33741	10pF 10% NP0 50V
2403	4822 122 33741	10pF 10% NP0 50V
2405	4822 122 33741	10pF 10% NP0 50V
2406	4822 122 33741	10pF 10% NP0 50V
2407	4822 122 33741	10pF 10% NP0 50V
2408	4822 122 33741	10pF 10% NP0 50V
2410	4822 124 40769	4,7µF 20% 100V
2411	4822 122 33741	10pF 10% NP0 50V
2412	4822 122 33741	10pF 10% NP0 50V
2413	4822 122 33741	10pF 10% NP0 50V
2414	2238 586 59812	100nF +80-20% Y5V 50V

ELECTRICAL PARTSLIST - COMBI BOARD

- CAPACITORS -

2415	2238 586 59812	100nF +80-20% Y5V 50V
2416	4822 122 33741	10pF 10% NP0 50V
2417	4822 122 33741	10pF 10% NP0 50V
2418	2238 586 59812	100nF +80-20% Y5V 50V
2419	4822 126 14238	2,2nF 10% X7R 50V
2420	5322 126 11578	1nF 10% X7R 50V
2421	4822 126 13193	4,7nF 10% X7R 63V
2423	4822 126 14238	2,2nF 10% X7R 50V
2424	2238 586 59812	100nF +80-20% Y5V 50V
2425	2238 586 59812	100nF +80-20% Y5V 50V
2426	5322 126 11578	1nF 10% X7R 50V
2427	4822 126 14507	18pF 5% NP0 50V
2428	4822 126 14507	18pF 5% NP0 50V
2431	4822 126 14238	2,2nF 10% X7R 50V
2432	4822 126 14238	2,2nF 10% X7R 50V
2433	4822 124 41584	100µF 20% 10V
2434	4822 124 21913	1µF 20% 63V
2435	2238 586 59812	100nF +80-20% Y5V 50V
2436	3198 017 42230	22nF 20% Y5V 50V
2437	2238 586 59812	100nF +80-20% Y5V 50V
2440	4822 122 31765	100pF 2%NP0 63V 1206
2441	3198 017 42230	22nF 20% Y5V 50V
2442	4822 124 40784	3300µF 20% 16V
2443	2238 586 59812	100nF +80-20% Y5V 50V
2444	4822 124 40248	10µF 20% 63V
2445	2238 586 59812	100nF +80-20% Y5V 50V
2446	5322 126 11578	1nF 10% X7R 50V
2501	4822 124 21913	1µF 20% 63V
2502	4822 124 21913	1µF 20% 63V
2503	5322 126 11578	1nF 10% X7R 50V
2504	5322 126 11578	1nF 10% X7R 50V
2505	4822 122 31765	100pF 2%NP0 63V 1206
2506	4822 122 31765	100pF 2%NP0 63V 1206
2507	2238 586 59812	100nF +80-20% Y5V 50V
2508	2238 586 59812	100nF +80-20% Y5V 50V
2509	4822 124 21913	1µF 20% 63V
2510	4822 124 21913	1µF 20% 63V
2511	4822 122 31765	100pF 2%NP0 63V 1206
2512	4822 122 31765	100pF 2%NP0 63V 1206
2513	4822 122 31765	100pF 2%NP0 63V 1206
2514	4822 122 31765	100pF 2%NP0 63V 1206
2515	4822 122 33761	22pF 5% NP0 50V
2516	4822 122 33761	22pF 5% NP0 50V
2517	3198 017 42230	22nF 20% Y5V 50V
2518	3198 017 42230	22nF 20% Y5V 50V
2519	4822 124 41584	100µF 20% 10V
2520	4822 124 41584	100µF 20% 10V
2521	4822 124 40196	220µF 20% 16V
2529	4822 124 41407	0,47µF 20% 63V
2530	4822 124 41407	0,47µF 20% 63V

- RESISTORS -

3101	4822 100 20167	50K 30% LIN 0,1W
3102	4822 051 30683	68K 5% 0,062W
3104	4822 051 30222	2,2K 5% 0,062W
3108	4822 051 20339	33R 5% 0,1W
3109	4822 117 13632	100K 1% 0,62W
3110	4822 117 13632	100K 1% 0,62W
3113	4822 051 30154	150K 5% 0,062W
3120	4822 117 13632	100K 1% 0,62W
3121	4822 051 30223	22K 5% 0,062W
3301	4822 051 30103	10K 5% 0,062W
3302	4822 051 30103	10K 5% 0,062W
3303	4822 051 30222	2,2K 5% 0,062W
3304	4822 051 30222	2,2K 5% 0,062W
3305	4822 051 30471	470R 5% 0,062W
3306	4822 051 30471	470R 5% 0,062W
3307	4822 051 30103	10K 5% 0,062W
3308	4822 051 30103	10K 5% 0,062W
3309	4822 051 30223	22K 5% 0,062W
3310	4822 051 30223	22K 5% 0,062W
3311	4822 117 13632	100K 1% 0,62W
3312	4822 051 30222	2,2K 5% 0,062W
3313	4822 051 30154	150K 5% 0,062W
3314	4822 051 30154	150K 5% 0,062W
3315	4822 116 52182	15R 5% 0,5W
3316	4822 116 52182	15R 5% 0,5W
3317	4822 117 13632	100K 1% 0,62W
3318	4822 051 30222	2,2K 5% 0,062W
3319	4822 051 30272	2,7K 5% 0,062W
3320	4822 051 30561	560R 5% 0,062W
3321	4822 051 30471	470R 5% 0,062W
3322	4822 051 30471	470R 5% 0,062W
3323	4822 051 30332	3,3K 5% 0,062W
3324	4822 050 24708	4,7R 1% 0,6W
3325	4822 050 24708	4,7R 1% 0,6W
3326	4822 051 30681	680R 5% 0,062W
3327	4822 051 30222	2,2K 5% 0,062W
3328	4822 051 30222	2,2K 5% 0,062W
3331	4822 051 30221	220R 5% 0,062W
3332	4822 051 30221	220R 5% 0,062W
3333	4822 051 30103	10K 5% 0,062W
3334	4822 051 30103	10K 5% 0,062W
3336	4822 116 83883	470R 5% 0,5W
3337	4822 050 24708	4,7R 1% 0,6W
3338	4822 050 24708	4,7R 1% 0,6W
3339	4822 051 30471	470R 5% 0,062W
3340	4822 116 52257	22K 5% 0,5W
3342	4822 051 30103	10K 5% 0,062W
3400	4822 051 30562	5,6K 5% 0,063W
3401	4822 051 30153	15K 5% 0,062W
3402	4822 051 30471	470R 5% 0,062W

ELECTRICAL PARTSLIST - COMBI BOARD

- RESISTORS -

3403	4822 051 30471	470R 5% 0,062W
3404	4822 051 30471	470R 5% 0,062W
3405	4822 051 30471	470R 5% 0,062W
3406	4822 051 30223	22K 5% 0,062W
3407	4822 051 30221	220R 5% 0,062W
3408	4822 051 30008	0R JUMPER (0603)
3409	4822 051 30221	220R 5% 0,062W
3410	4822 051 30472	4,7K 5% 0,062W
3411	4822 051 30102	1K 5% 0,062W
3412	4822 051 30102	1K 5% 0,062W
3413	4822 051 30471	470R 5% 0,062W
3415	4822 051 30471	470R 5% 0,062W
3416	4822 051 30471	470R 5% 0,062W
3420	4822 051 30221	220R 5% 0,062W
3421	4822 051 30102	1K 5% 0,062W
3422	4822 051 30102	1K 5% 0,062W
3423	4822 051 30562	5,6K 5% 0,063W
3424	4822 051 30123	12K 5% 0,062W
3425	4822 051 30103	10K 5% 0,062W
3427	4822 051 30103	10K 5% 0,062W
3428	4822 051 30334	330K 5% 0,062W
3429	4822 051 30334	330K 5% 0,062W
3430	4822 051 30471	470R 5% 0,062W
3431	4822 051 30103	10K 5% 0,062W
3432	4822 051 30221	220R 5% 0,062W
3433	4822 051 30221	220R 5% 0,062W
3434	4822 051 30333	33K 5% 0,062W
3435	4822 117 13632	100K 1% 0,62W
3436	4822 116 52213	180R 5% 0,5W
3437	4822 051 30333	33K 5% 0,062W
3438	4822 117 13632	100K 1% 0,62W
3439	4822 116 52213	180R 5% 0,5W
3440	4822 051 30153	15K 5% 0,062W
3441	4822 117 12925	47K 1% 0,063W
3442	4822 051 30333	33K 5% 0,062W
3443	4822 051 30272	2,7K 5% 0,062W
3445	4822 051 30222	2,2K 5% 0,062W
3446	4822 051 30682	6,8K 5% 0,062W
3447	4822 051 30183	18K 5% 0,062W
3448	4822 051 30273	27K 5% 0,062W
3449	4822 051 30393	39K 5% 0,062W
3451	4822 051 30333	33K 5% 0,062W
3454	4822 051 30333	33K 5% 0,062W
3455	4822 051 30333	33K 5% 0,062W
3456	4822 051 30472	4,7K 5% 0,062W
3457	4822 051 30223	22K 5% 0,062W
3458	4822 051 30472	4,7K 5% 0,062W
3459	4822 051 30222	2,2K 5% 0,062W
3460	4822 051 30682	6,8K 5% 0,062W
3461	4822 051 30183	18K 5% 0,062W

- RESISTORS -

3462	4822 051 30273	27K 5% 0,062W
3463	4822 051 30393	39K 5% 0,062W
3464	4822 051 30683	68K 5% 0,062W
3465	4822 051 30471	470R 5% 0,062W
3466	4822 051 30331	330R 5% 0,062W
3467	4822 051 30333	33K 5% 0,062W
3468	4822 051 30223	22K 5% 0,062W
3469	4822 051 30333	33K 5% 0,062W
3470	4822 051 30154	150K 5% 0,062W
3473	4822 117 12925	47K 1% 0,063W
3475	4822 051 30103	10K 5% 0,062W
3476	4822 051 30223	22K 5% 0,062W
3477	4822 051 30472	4,7K 5% 0,062W
3478	4822 051 30103	10K 5% 0,062W
3480	4822 117 13632	100K 1% 0,62W
3481	4822 051 30271	270R 5% 0,062W
3482	4822 051 30471	470R 5% 0,062W
3484	4822 117 13632	100K 1% 0,62W
3485	4822 117 13632	100K 1% 0,62W
3486	4822 051 30472	4,7K 5% 0,062W
3487	4822 051 30102	1K 5% 0,062W
3488	4822 117 12891	220K 1% ERJ3E
3489	4822 116 52213	180R 5% 0,5W
3490	4822 117 12891	220K 1% ERJ3E
3491	4822 116 52213	180R 5% 0,5W
3492	4822 051 30223	22K 5% 0,062W
3493	4822 051 30474	470K 5% 0,062W
3494	4822 051 30472	4,7K 5% 0,062W
3503	4822 051 30471	470R 5% 0,062W
3504	4822 051 30471	470R 5% 0,062W
3505	4822 051 30562	5,6K 5% 0,063W
3506	4822 051 30562	5,6K 5% 0,063W
3507	4822 051 30105	1M 5% 0,062W
3508	4822 051 30105	1M 5% 0,062W
3509	4822 051 30471	470R 5% 0,062W
3510	4822 051 30471	470R 5% 0,062W
3511	4822 051 30471	470R 5% 0,062W
3512	4822 051 30471	470R 5% 0,062W
3513	4822 051 30223	22K 5% 0,062W
3514	4822 051 30223	22K 5% 0,062W
3515	4822 051 30472	4,7K 5% 0,062W
3516	4822 051 30472	4,7K 5% 0,062W
3517	4822 117 12971	15R 5% 0,62W
3518	4822 117 12971	15R 5% 0,62W
3519	4822 051 30223	22K 5% 0,062W
3520	4822 051 30223	22K 5% 0,062W
3521	4822 051 30472	4,7K 5% 0,062W
3522	4822 051 30471	470R 5% 0,062W
3523	4822 051 30471	470R 5% 0,062W
3524	4822 051 30472	4,7K 5% 0,062W

ELECTRICAL PARTSLIST - COMBI BOARD**- RESISTORS -**

3525	4822 051 30153	15K 5% 0,062W
3526	4822 051 30153	15K 5% 0,062W
3527	4822 117 13632	100K 1% 0,62W
3528	4822 117 13632	100K 1% 0,62W
3529	4822 051 30102	1K 5% 0,062W

3530	4822 051 30102	1K 5% 0,062W
3531	4822 051 30222	2,2K 5% 0,062W
3532	4822 051 30471	470R 5% 0,062W
4301	4822 051 30008	0R JUMPER (0603)
4401	4822 051 30008	0R JUMPER (0603)

4402	4822 051 30008	0R JUMPER (0603)
4403	4822 051 30008	0R JUMPER (0603)
9010	4822 051 30008	0R JUMPER (0603)
9011	4822 051 20008	0R JUMPER (0805)
9012	4822 051 30008	0R JUMPER (0603)

9015	4822 051 30008	0R JUMPER (0603)
9017	4822 051 20008	0R JUMPER (0805)
9026	4822 051 30008	0R JUMPER (0603)

- COILS & FILTERS -

5101	4822 157 70513	FM ANT COIL 3.5T
5102	2422 535 94985	AM ANT COIL 64UH
5104	9965 000 07706	FM OSC COIL 2.5T
5105	4822 157 71145	AM OSC COIL 270UH
5106	4822 157 70499	AM IFT WHITE

5107	4822 242 81154	KMFC5058-Z
5108	4822 156 11146	AM IFT BLACK
5301	4822 157 11231	LAN02TB1R0J
5400	4822 157 11228	100UH 5%
5401	4822 157 11231	LAN02TB1R0J

5402	4822 157 11231	LAN02TB1R0J
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- DIODES -

6101	4822 130 11397	BAS316
6102	4822 130 11397	BAS316
6302	3198 010 53380	BZX79-B3V3
6303	4822 130 61219	BZX79-B10
6305	4822 130 34173	BZX79-B5V6

6400	9322 182 20682	LED LTL-1CHKSKNN
6401	9322 182 19682	LED LTL-1CHKSKNN
6402	9322 182 19682	LED LTL-1CHKSKNN
6403	4822 130 11397	BAS316
6404	9322 182 20682	LED LTL-1CHKSKNN

6405	9322 182 20682	LED LTL-1CHKSKNN
6406	4822 130 11397	BAS316
6407	4822 130 11397	BAS316
6408	4822 130 11397	BAS316
6409	4822 130 11397	BAS316

- DIODES -

6410	3198 010 53380	BZX79-B3V3
6413	4822 130 11397	BAS316
6414	4822 130 11397	BAS316

- IC & TRANSISTORS -

7101	4822 209 32746	TEA5711T/N2
7301	5322 130 60123	BC807-40
7302	4822 130 60373	BC856B
7303	4822 130 60511	BC847B
7304	4822 130 41246	BC327-25

7305	4822 130 60373	BC856B
7306	5322 130 44647	BC368
7307	4822 130 42615	BC817-40
7308	4822 130 42615	BC817-40
7309	4822 130 42615	BC817-40

7310	4822 130 42615	BC817-40
7311	5322 130 42755	BC847C
7312	4822 130 41246	BC327-25
7313	5322 209 83002	TDA2822M
7314	4822 130 60373	BC856B

7401	8240 009 50640	TMP86CH21F
7402	5322 130 42755	BC847C
7403	5322 130 42755	BC847C
7404	4822 130 60511	BC847B
7405	4822 130 60511	BC847B

7406	5322 130 42755	BC847C
7407	5322 130 42755	BC847C
7408	4822 130 60511	BC847B
7501	4822 130 60511	BC847B
7502	4822 130 60511	BC847B

7503	4822 130 44568	BC557B
7504	4822 130 44568	BC557B
7505	4822 130 44568	BC557B
7506	4822 130 44568	BC557B
7507	4822 130 41246	BC327-25

Note: Only these parts mentioned in the list are normal service parts.

ELECTRICAL PARTSLIST - CD BOARD (ICD01-AX)**- MISCELLANEOUS -**

1801	4822 242 81865	CER. FLTR CST16,93MXW0C3
1802	4822 265 11207	CONNECTOR 6P
1804	4822 265 11535	CONNECTOR 8P
1805	2422 025 17389	CONNECTOR 16P FFC
8001	3103 308 92890	FFC CABLE 16P/80/16P BD

- CAPACITORS -

2847	4822 124 41584	100µF 20% 10V
2848	3198 017 34730	47nF 10% X7R 16V
2849	4822 126 14225	56pF 5% NP0 50V
2850	3198 017 34730	47nF 10% X7R 16V
2851	4822 126 13879	220nF +80-20% 16V
2853	4822 126 13879	220nF +80-20% 16V
2854	4822 126 14305	100nF 10% X7R 16V
2855	4822 124 41584	100µF 20% 10V

- CAPACITORS -

2801	4822 126 14238	2,2nF 10% X7R 50V
2802	4822 124 41584	100µF 20% 10V
2803	3198 017 34730	47nF 10% X7R 16V
2804	4822 124 40196	220µF 20% 16V
2805	3198 017 34730	47nF 10% X7R 16V
2806	3198 017 34730	47nF 10% X7R 16V
2807	4822 124 40207	100µF 20% 25V
2808	3198 017 34730	47nF 10% X7R 16V
2810	3198 017 34730	47nF 10% X7R 16V
2812	4822 122 33761	22pF 5% NP0 50V
2813	3198 017 34730	47nF 10% X7R 16V
2814	4822 126 14247	1,5nF 10% X7R 50V
2815	3198 017 34730	47nF 10% X7R 16V
2816	3198 017 34730	47nF 10% X7R 16V
2818	4822 126 14305	100nF 10% X7R 16V
2819	4822 126 14549	33nF 10% X7R 16V
2820	4822 124 40769	4,7µF 20% 100V
2822	4822 126 14238	2,2nF 10% X7R 50V
2823	4822 124 41584	100µF 20% 10V
2824	4822 126 14549	33nF 10% X7R 16V
2825	4822 124 40769	4,7µF 20% 100V
2826	4822 126 13879	220nF +80-20% 16V
2827	4822 126 14238	2,2nF 10% X7R 50V
2828	3198 017 34730	47nF 10% X7R 16V
2829	2020 552 96137	2,7nF 10% X7R 50V
2830	4822 126 13193	4,7nF 10% X7R 63V
2831	3198 017 34730	47nF 10% X7R 16V
2832	4822 126 14305	100nF 10% X7R 16V
2833	5322 126 11583	10nF 10% X7R 50V
2834	4822 126 14305	100nF 10% X7R 16V
2836	3198 016 33380	3,3pF 1% NP0 50V
2837	3198 017 34730	47nF 10% X7R 16V
2838	3198 017 31530	15nF 10% X7R 50V
2839	5322 126 11583	10nF 10% X7R 50V
2840	3198 017 34730	47nF 10% X7R 16V
2841	4822 126 14315	390pF 5% NP0 50V
2842	4822 122 33777	47pF 5% NP0 63V
2844	3198 017 34730	47nF 10% X7R 16V
2845	3198 017 34730	47nF 10% X7R 16V
2846	4822 126 14305	100nF 10% X7R 16V

- RESISTORS -

3800	2120 108 91909	39R 5% ERJ3G
3801	4822 116 83082	4,7R 5% 0,21W
3804	4822 117 12902	8,2K 1% 0,063W
3805	4822 051 30123	12K 5% 0,062W
3806	4822 051 30102	1K 5% 0,062W
3807	4822 117 11507	6,8K 1% 0,1W
3808	4822 051 30332	3,3K 5% 0,062W
3809	4822 051 30103	10K 5% 0,062W
3810	4822 051 30471	470R 5% 0,062W
3811	4822 051 30103	10K 5% 0,062W
3812	4822 051 30689	68R 5% 0,063W
3815	4822 051 20008	0R JUMPER (0805)
3816	4822 051 30103	10K 5% 0,062W
3817	4822 051 30223	22K 5% 0,062W
3818	4822 051 30153	15K 5% 0,062W
3819	4822 051 30151	150R 5% 0,062W
3820	4822 117 13613	2,2R 5% 0603
3821	4822 051 30682	6,8K 5% 0,062W
3822	4822 117 10833	10K 1% 0,1W
3823	4822 051 30105	1M 5% 0,062W
3824	4822 051 20228	2,2R 5% 0,1W
3826	4822 051 30271	270R 5% 0,062W
3827	4822 117 12925	47K 1% 0,063W
3828	4822 051 30683	68K 5% 0,062W
3829	4822 051 30271	270R 5% 0,062W
3830	4822 051 30103	10K 5% 0,062W
3832	4822 117 12925	47K 1% 0,063W
3833	4822 051 10102	1K 2% 0,25W
3834	4822 051 30109	10R 5% 0,062W
3835	4822 051 30333	33K 5% 0,062W
3836	4822 126 13881	470pF 5% 50V
3837	4822 051 30471	470R 5% 0,062W
3838	4822 051 30471	470R 5% 0,062W
3839	4822 051 30471	470R 5% 0,062W
3840	4822 051 30124	120K 5% 0,062W
3841	4822 051 30471	470R 5% 0,062W
3842	4822 117 12925	47K 1% 0,063W
3843	4822 051 30471	470R 5% 0,062W
3844	4822 051 30221	220R 5% 0,062W
3845	4822 117 12925	47K 1% 0,063W

ELECTRICAL PARTSLIST - CD BOARD (ICD01-AX)**- RESISTORS -**

3846	4822 051 30471	470R 5% 0,062W
3847	4822 117 12925	47K 1% 0,063W
3848	3198 021 32250	2,2M 5%
3849	4822 051 30222	2,2K 5% 0,062W
3850	4822 051 30103	10K 5% 0,062W
3851	4822 117 12925	47K 1% 0,063W
3853	4822 051 30222	2,2K 5% 0,062W
3854	4822 051 30124	120K 5% 0,062W
3855	4822 051 30153	15K 5% 0,062W
3856	4822 051 30474	470K 5% 0,062W
3857	4822 051 30102	1K 5% 0,062W
3858	4822 051 30121	120R 5% 0,062W
3859	4822 117 12925	47K 1% 0,063W
3860	4822 117 12925	47K 1% 0,063W
3861	4822 117 12925	47K 1% 0,063W
3862	4822 117 12925	47K 1% 0,063W
3863	4822 051 30109	10R 5% 0,062W
3864	4822 117 12925	47K 1% 0,063W
3865	4822 117 12925	47K 1% 0,063W
3866	4822 117 12925	47K 1% 0,063W
3867	4822 117 12925	47K 1% 0,063W
3868	4822 051 30562	5,6K 5% 0,063W
3869	4822 117 13608	4,7R 5% 0,0016W
3870	4822 051 30333	33K 5% 0,062W
3871	4822 051 30689	68R 5% 0,063W
3872	4822 117 12139	22R 5% 0,062W
3874	4822 117 13608	4,7R 5% 0,0016W
3875	4822 117 13613	2,2R 5% 0603
3876	4822 051 30471	470R 5% 0,062W
3880	4822 051 30121	120R 5% 0,062W
3881	4822 051 30332	3,3K 5% 0,062W
3882	4822 051 30151	150R 5% 0,062W
3883	4822 051 30151	150R 5% 0,062W
3884	4822 117 12917	1R 5% 0,062W
3885	4822 051 20154	150K 5% 0,1W
3886	4822 117 12891	220K 1% ERJ3E
3892	4822 117 13613	2,2R 5% 0603
3900	4822 051 30102	1K 5% 0,062W
3901	4822 051 30102	1K 5% 0,062W
4801	4822 051 30008	OR JUMPER (0603)
4805	4822 051 30008	OR JUMPER (0603)
4806	4822 051 30008	OR JUMPER (0603)
4807	4822 051 30008	OR JUMPER (0603)
4808	4822 051 30008	OR JUMPER (0603)
4809	4822 051 30008	OR JUMPER (0603)
4810	4822 051 30008	OR JUMPER (0603)
4811	4822 051 30008	OR JUMPER (0603)
4812	4822 051 30008	OR JUMPER (0603)
4813	4822 051 30008	OR JUMPER (0603)
4814	4822 051 30008	OR JUMPER (0603)

- RESISTORS -

4815	4822 051 20008	OR JUMPER (0805)
4816	4822 051 30008	OR JUMPER (0603)
4817	4822 051 20008	OR JUMPER (0805)
4818	4822 051 20008	OR JUMPER (0805)
4819	4822 051 20008	OR JUMPER (0805)
4820	4822 051 20008	OR JUMPER (0805)
4821	4822 051 20008	OR JUMPER (0805)
4822	4822 051 20008	OR JUMPER (0805)
4823	4822 051 30008	OR JUMPER (0603)
4824	4822 051 20008	OR JUMPER (0805)
4825	4822 051 20008	OR JUMPER (0805)
4826	4822 051 20008	OR JUMPER (0805)
4827	4822 051 20008	OR JUMPER (0805)
4828	4822 051 20008	OR JUMPER (0805)
4829	4822 051 20008	OR JUMPER (0805)
4830	4822 051 20008	OR JUMPER (0805)
4831	4822 051 30008	OR JUMPER (0603)
4832	4822 051 20008	OR JUMPER (0805)
4833	4822 051 30008	OR JUMPER (0603)
4834	4822 051 20008	OR JUMPER (0805)
4835	4822 051 20008	OR JUMPER (0805)
4836	4822 051 30008	OR JUMPER (0603)
4837	4822 051 30008	OR JUMPER (0603)

- DIODES -

6802	9340 402 30115	BZX284-B2V4
6803	4822 130 11397	BAS316
6804	9340 402 30115	BZX284-B2V4

- IC & TRANSISTORS -

7802	5322 130 60123	BC807-40
7803	9322 158 56682	M63000SP
7804	9322 172 18668	TA2157F
7805	9322 177 87671	TC94A14F
7806	5322 130 60123	BC807-40
7808	9340 218 60115	BC857CW
7809	9340 217 80115	BC857CW

Note: Only these parts mentioned in the list are normal service parts.