# SERVICE MANUAL

# CDX-802

## Professional CD Player



## CONTENT'S:

# CDX-802



DIGITAL OUTPUT 2

CONNECT TO
REMOTE CONTROL 2

OUTPUT 2

**230V**
**50Hz**

**115V**
**60Hz**

AC IN

FUSE 250V, F1 AL

# gemini®

DIGITAL OUTPUT 1

CONNECT TO
REMOTE CONTROL 1

OUTPUT 1
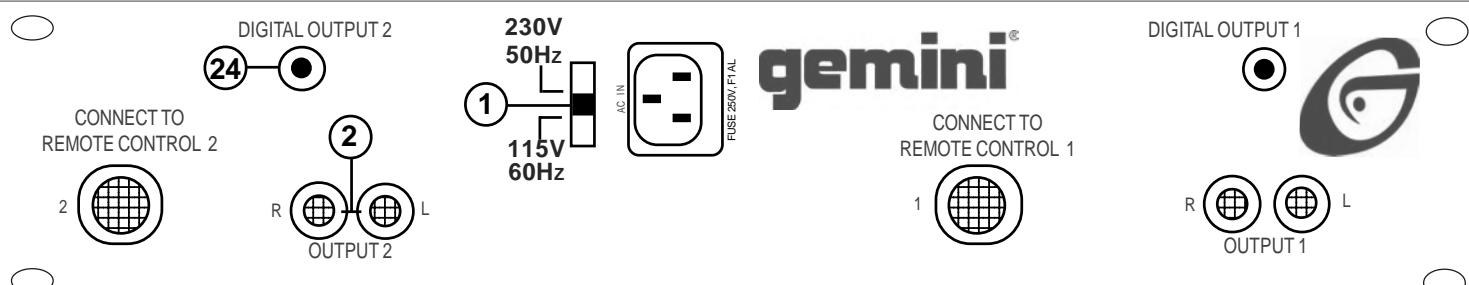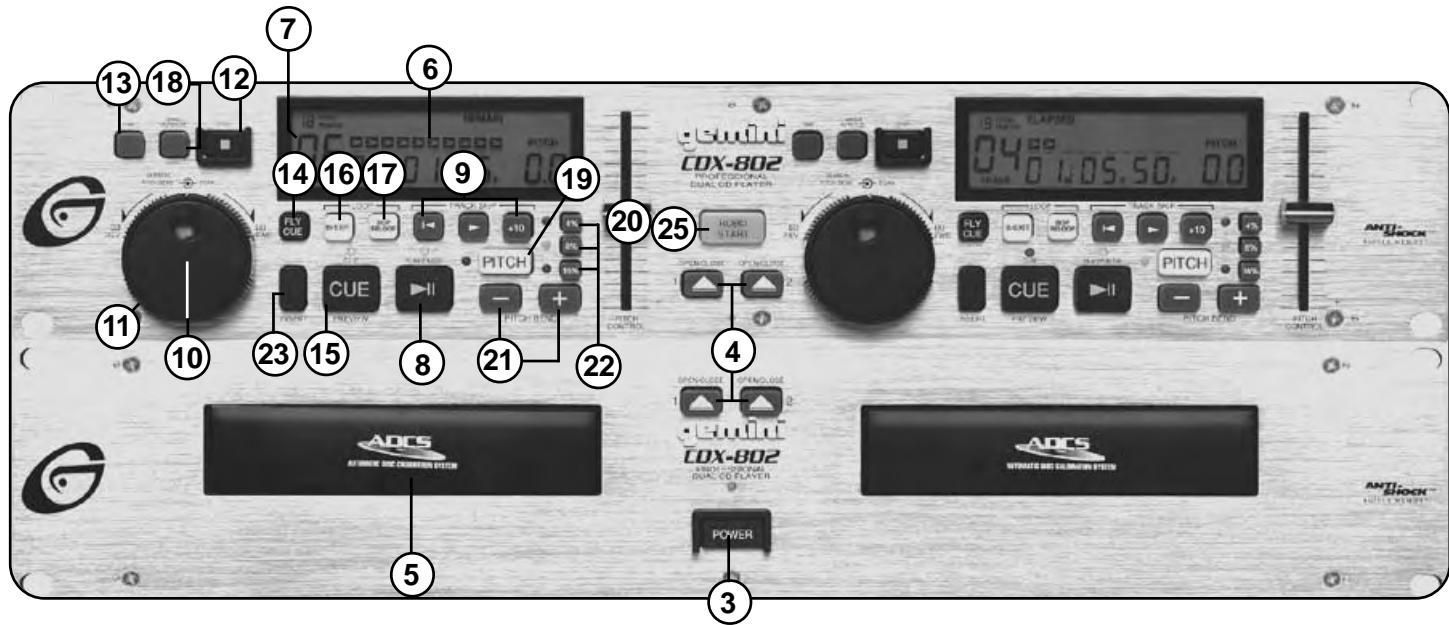
## INTRODUCTION:

Congratulations on your purchase of a **Gemini CDX-802** CD Player. Your state-of-the-art professional CD Player is backed by a three year warranty that excludes lasers, which are covered by a separate one year warranty. Prior to use of this unit, we suggest you carefully read the following intructions.

Your **Gemini CDX-802** CD Player comes equipped with **ADCS (Automatic Disc Calibration System)**, a unique state-of-the-art feature. CDs are produced by a variety of manufacturers and recorded by many different professional companies as well as the do-it-yourselfers at home. Therefore, all CDs do not play the same. The **ADCS** automatically adjusts the laser in your **CDX-802** CD Player for each individual CD you insert into the tray, to give you the best possible performance for every CD you play regardless of how it was manufactured or how it was recorded. With this exclusive system you always get consistent and reliable performance as well as exceptional sound quality every time you play a CD... any CD.

## CAUTIONS:

1. Do not use this **CD** player at temperatures below **41°F/5°C** or higher than **95°F/35°C**.
2. The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids such as vases should be placed on the apparatus.
3. Place the unit in a clean and dry location.
4. Do not place the unit in an unstable location.
5. When disconnecting the power cord from an **AC** outlet, always grasp it by the plug. Never pull the power cord.
6. To prevent electric shock, do not remove the cover or the bottom screws. There are no user serviceable parts inside. Please refer servicing to a qualified technician.
7. Do not use chemical solvents to clean the unit.
8. Keep the laser pickup clean by keeping the tray closed.
9. Keep this manual in a safe place for future reference.

## SAFETY CERTIFICATIONS:

**Laser Diode Properties**
**Material: Ga - Al - As**
**Wavelength: 755 - 815 nm (25° C)**
**Laser Output: Continuous Wave, max. 5mW**

## LINE VOLTAGE SELECTION:

The Gemini **CDX-802** CD Player is a dual voltage unit operating at **115** or **230** volts. Be sure to set the proper voltage:

1. Place the head of a screwdriver in the center of the **VOLTAGE SELECTOR (1)** switch found on the rear panel.

2. Slide the switch to **115** or **230** volts.

3. Do not force or twist the switch. Excessive force may cause damage. If the switch does not move smoothly, contact a qualified technician.

## CONNECTIONS:

1. Plug one end of a set of **RCA** connectors into the two **LINE OUTPUT JACKS (2)** on the back of your CD unit.

2. Plug the other end of the **RCA** connectors into any of the available line level input jacks on your mixer. If you are playing the **CDX-802** through a receiver, you can plug the **RCA** connectors into the **CD** or **AUX INPUT JACKS** located on the receiver. If there are no **CD** or **AUX INPUTS**, use any line level **(not phono)** input.

## FUNCTIONS:

**POWER SWITCH:** After making sure the **VOLTAGE SELECTOR (1)** switch is properly set, plug the unit in and press the **POWER (3)** button. The unit will turn on. Pushing **POWER (3)** a second time turns the unit off.

**DISC TRAY:** The **DISC TRAY (5)** is where the CD is held during loading, unloading and playback. Pressing **OPEN/CLOSE (4)** opens or closes the tray. The **DISC TRAY (5)** holds both **12 cm** and **8 cm** CDs and automatically closes after remaining open for three minutes.
**NOTE: TRAY WONT OPEN WHEN THE CDX-802 IS IN THE PLAY MODE.**

**OPEN/CLOSE:** Press **OPEN/CLOSE (4)** to load or remove a CD from the **DISC TRAY (5)**.

**DISPLAY:** The **DISPLAY (6)** shows total tracks; track number; pitch value; single-auto cue; continue (continuous play); and three different time displays: track time elapsed, track time remaining and total time remaining on disc. Time is measured in minutes, seconds and frames.

**PLAYBACK DISPLAY:** The **PLAYBACK DISPLAY (7)** displays the play time remaining for each track. The display flashes slowly when the track has **15** seconds remaining and pulses rapidly when play time is down to five seconds.

**PLAY/PAUSE ▶||:** Each press of **PLAY/PAUSE (8)** causes the operation to change from **PLAY** to **PAUSE** or **PAUSE** to **PLAY**.

**TRACK SKIP |◀ ▶|** : The **TRACK SKIP (9)** buttons let you select the track to play.

**SEARCH JOG WHEEL:** The **SEARCH JOG WHEEL (10)** has two functions. Use the **SEARCH JOG WHEEL (10)** to make fine adjustments in **PAUSE** mode. Use the **SEARCH JOG WHEEL (10)** to bend the pitch for precise synchronization in **PLAY** mode.

**SEARCH DIAL:** Use the **SEARCH DIAL (11)** to select the scanning direction and speed of your CD. Turning the dial in a clockwise direction scans forward while a counter-clockwise turn scans the track in reverse. Scan speed increases as the dial is turned.

**STOP ■:** The **STOP (12)** button ends CD play.

**TIME:** The **TIME (13)** button switches the time display between the three available choices listed under **DISPLAY (6)**.

**FLY CUE:** The **FLY CUE (14)** function lets you set cues "on the fly" with the press of a button. Press **FLY CUE (14)** when the disc reaches the musical location you wish to make your cue or start point. The cue point is now programmed. Press **CUE (15)** to return to the cue point. Press **PLAY/PAUSE (16)** and the unit starts from the pre-programmed spot.

**CUE:** With the unit in the **PLAY** mode (**PLAY/PAUSE LED** is green) and after the cue point has been programmed, pressing **CUE (15)** will cause the CD player to enter the **PAUSE** mode (green **PLAY/PAUSE LED** blinks) at the programmed cue point (the **CUE LED** glows yellow). Holding down the **CUE (15)** button changes the function to **PREVIEW** and starts the CD from the programmed cue point. Releasing the **CUE** button **(15)** will return the CD laser to the preset cue point.

**LOOP:** After a cue point is memorized, pressing the **B/EXIT (16)** button in **PLAY** mode, (the **CUE LED** blinks yellow), repeats the section between the cue point and the point where the **B/EXIT (16)** button was pressed. Press the **B/EXIT (16)** button again or pause play to exit the repeating play.

**BOP/RELOOP:** The **BOP/RELOOP (17)** button has two functions. To return to a previously saved loop from normal play, press the **BOP/RELOOP (17)** button after saving the loop. To return to and instantly play from a previously saved cue point, press the **BOP/RELOOP (17)** button after setting the cue point (if you do not have a loop saved).

**SINGLE-AUTO CUE/CONTINUOUS:** Pressing **SINGLE-AUTO CUE/CONTINUOUS (18)** activates the **AUTO CUE FUNCTION**. The **AUTO CUE** causes the CD to pause at the recorded beginning of the next track and allows you to start play into the next song with no space in between songs. Pressing **SINGLE-AUTO CUE/CONTINUOUS (18)** a second time will activate the **CONTINUOUS** function. This causes the CD to repeat play continuously until **SINGLE-AUTO CUE/CONTINUOUS (18)** is pressed a third time to deactivate the **CONTINUOUS** function.

**PITCH:** Pushing the **PITCH** button **(19)** activates the **PITCH** section of the unit (**PITCH LED** glows red). The pitch of the CD will change according to the position of the **PITCH SLIDE (20)**.

**PITCH BEND ━ ╋:** Pushing the **PITCH BEND (21)** buttons will automatically raise the pitch up to **+4%** or lower the pitch down to **-4%** from the existing setting. Releasing the buttons returns pitch to the original setting. Use this function to match the pitch bend when mixing from one song to another.

**4%, 8% and 16%:** Use the **4%, 8% and 16% (22)** buttons to assign the percent the pitch control slide will have. The **4%** button will assign **+/-4%** to the **PITCH CONTROL SLIDE (20)**. The **8%** button will assign **+/-8%** to the **PITCH CONTROL SLIDE (20)**. The **16%** button will assign **+/-16%** to the **PITCH CONTROL SLIDE (20)**. The **PITCH (19)** must be **ON** for the **4%, 8%** and **16% (22)** buttons to work.

**INSERT:** Set a cue point (using the **CUE (15), FLY CUE (14)** or **SEARCH JOG WHEEL (10)**. From this cue point you will be able to sample up to **10** seconds of a musical phrase or sound. When you push and hold the **INSERT (23)** button you will be able to insert that phrase or sound at any spot in the music that is currently playing, replacing what is playing in that spot with up to **10** seconds of the piece you have sampled. When you release the **INSERT (23)** button the music will continue uninterrupted.

*NOTE: YOU CAN ONLY USE YOUR "SAMPLE" WITH YOUR CURRENT CD. ONCE YOU OPEN THE DISC TRAY TO CHANGE CDS, YOUR "SAMPLE" WILL BE AUTOMATICALLY DELETED.*

**DIGITAL OUTPUT JACK:** Connecting any type of **DAT, MD, HARD DRIVE**, or other such items which accept digital signals to the **BNC (24)** output connector on the rear panel of your **CDX-802** allows you to record a digital signal from CD.

## OPERATING INSTRUCTIONS:

1. Make sure that the **VOLTAGE SELECTOR SWITCH (1),** found on the rear panel, is set for the proper voltage. Plug the unit in and press the **POWER SWITCH (2)**. The unit is **ON**. Pushing **POWER (1)** a second time turns the unit **OFF**.

2. Press **OPEN/CLOSE (4)** and place a CD in the **DISC TRAY (5)**. Press **OPEN/CLOSE (4)** again. The tray will close.

3. Push **TRACK SKIP (9)** to select the track you wish to play.

4. Press **PLAY/PAUSE (8)** and the unit will instantly play.

## FLY CUE & CUE INSTRUCTIONS:

The **FLY CUE (14)** function lets you set cues "on the fly" with the press of a button. Press **FLY CUE (14)** when the disc reaches the musical location you wish to make your cue or start point. The cue point is now programmed. Press **CUE (15)** to return to the cue point. Press **PLAY/PAUSE (8)** and the unit instantly starts from this pre-programmed spot.

## AND/OR:

1. To pre-program a cue point (the spot on a CD at which you want play to start) select the proper track and push **PLAY/PAUSE (8)** so the unit enters the **PLAY** mode (**PLAY/PAUSE LED** glows green). When the CD reaches the approximate musical spot you wish to make your cue, push **PLAY/PAUSE (8)** so the unit enters the **PAUSE** mode (**PLAY/PAUSE LED** blinks). Move the **SEARCH JOG WHEEL (10)** forward or in reverse until the precise spot at which you want CD play to begin is located. Push **PLAY/PAUSE (8)**. The cue point is now programmed. Press **CUE (15)** to return to this pre-programmed cue point at any time. Push **PLAY/PAUSE (8)** and the unit will instantly play from the pre-selected spot.

2. To fine tune your pre-programmed cue point, push **PLAY/PAUSE (8)** so the unit enters the **PLAY** mode. Push the **CUE** button **(15)** and the CD will return to the cue point you programmed in step #1 and begin play from that point. If you decide this cue or starting point is okay, leave the unit alone until you are ready to play.

3. If, however, the selected spot is not exactly where you want it, push the **CUE (15)** button while the CD is playing and the disc will return to the pre-programmed cue point. Locate the *exact* spot on the CD at which you want play to start by turning the **SEARCH JOG WHEEL (10)**. Push **PLAY/PAUSE (8)** to pre-program this new cue point. Press the **CUE (15)** button to pause play at the new cue point. Push **PLAY/PAUSE (8)** at any time and the unit will play from the pre-selected spot.

## ROBO START INSTRUCTIONS:

### IN SINGLE-AUTO CUE MODE:

Use **ROBO START (25)** in **SINGLE-AUTO CUE MODE** to alternate play between the **CDX-802**'s two CD players (one track from one side, then one from the other). In **SINGLE-AUTO CUE MODE** play starts immediately with no blank or "dead" space. **ROBO START (25)** causes one side of the CD player to play when the other side is paused.

1. Engage **SINGLE-AUTO CUE MODE** with the **SINGLE-AUTO CUE/CONTINUOUS (18)** button .

2. Press the **ROBO START (25)** button to activate **ROBO START (25)**. Play will alternate between the two CD players. At the end of a track, the playing side pauses and the other CD deck plays a track. At the end of this track, the playing side pauses and the first CD deck resumes play.

### IN CONTINUOUS MODE OR DURING NORMAL PLAY:

If you use the **ROBO START (25)** function without **SINGLE-AUTO CUE MODE** (in **CONTINUOUS MODE** or during normal play), CD deck play does not alternate automatically. The **PLAY/PAUSE (8)** button must be pressed on the playing deck for the second deck to play.

1. During normal play, set a cue point on the second CD deck.

2. Press the **ROBO START (25)** button to activate **ROBO START**.

3. Press **PLAY/PAUSE (8)** button on the playing side to start play from the cue point on the other CD deck.

*NOTE: PAUSING PLAY IN THE MIDDLE OF A TRACK CAUSES THE OTHER CD DECK TO PLAY. WHEN THE NEW TRACK ENDS, PLAY RESUMES ON THE FIRST CD PLAYER FROM THE POINT AT WHICH IT WAS PAUSED.*

## TROUBLESHOOTING:

- If a disk will not play, check to see that it was loaded correctly (label side up) and that the CD unit is on a flat, level, stable surface. Check disc for dirt, scratches, spills, etc.
- If the disc spins but there is no sound, check the cable connections. If they are okay, check your amplifier or receiver.
- If the CD skips, check it for dirt, oil or scratches. Do not assume that the CD player or laser is defective. Many CDs are recorded "out of spec" and skip on most or all CD players. Before sending the unit to an authorized Gemini service technician, insert a disc that plays properly in another unit.

## SPECIFICATIONS:

### GENERAL:

| | |
|---|---|
| Type | Compact Disc Player |
| Disc Type | Standard Compact discs (12 cm & 8 cm) |
| Time Display | Track Elapsed, Track Remain, or Total remain |
| Instant Start | Within 0.015 seconds |
| Track Selection | 1 to 99 Tracks |
| Installation | 19" each |
| Dimensions | 19" x 3.5" x 10" |
| Weight Per Unit | 9.5 lbs. |

### AUDIO SECTION:

| | |
|---|---|
| Quantization | 16 Bit Linear/Channel, 3 Beam Laser |
| Oversampling Rate | 8 Times |
| Sampling Frequency | 44.1 kHz |
| Frequency Response | 20 Hz to 20 kHz |
| Digital Output | IEC958 |
| Total Harmonic Distortion | Less Than 0.05% |
| Signal to Noise Ratio | 100 dB |
| Dynamic Range | 96 dB |
| Channel Separation | 90 dB (1 KHz) |
| Output Level | 1.9 Volts R.M.S. |
| Power Supply | AC 115/230V, 60/50 Hz |

**Specifications and design are subject to change without notice for purpose of improvement.**

*NOTE: IF YOU PRESS OPEN/CLOSE (4) WHEN A DISC IS BEING READ AFTER LOADING, THE DISC TRAY WILL PAUSE, FOR A MOMENT BEFORE OPENING.*

# PARTS LIST:

## CDX-802 (MAIN )

| ITEM | PART NUMBER | Q'TY | ENGLISH NAME |
|---|---|---|---|
| 1 | 012-054 | 1 | PANEL CONTROL |
| 2 | 031-040 | 1 | TOP COVER |
| 3 | 032-128 | 1 | BOTTOM COVER |
| 4 | 021-604 | 1 | SUB PANEL |
| 5 | 041-479 | 1 | HEAT SINK |
| 6 | 022-860 | 2 | MOUNTING BRACKET |
| 7 | 041-480 | 2 | HEAT SINK (C) |
| 8 | 003-737 | 2 | DESK DOOR |
| 9 | 002-573 | 1 | KNOB PUSH (DA) |
| 10 | 003-743 | 1 | PUSE KEY INLAY (DA) |
| 11 | 002-576 | 1 | KNOB PUSH KEY ASS'Y (C) |
| 12 | 003-739 | 2 | PR OTECTOR INLAY |
| 13 | 003-711 | 1 | HOLDER LED 3Æ (7mm) |
| 14 | 047-494 | 6 | PCB SUPPORT |
| 15 | 148-316 | 1 | MANE PLATE (SMALL) |
| 16 | 049-215 | 8 | PAD FOOT |
| 17 | 153-213 | 1 | POLYFORM |
| 18 | 196-165 | 3 | SERIAL NO:LABEL |
| 19 | 255-238 | 1 | GIFT BOX |
| 20 | 257-020 | 1 | OWNER'S MANUAL |
| 21 | 156-089 | 1 | WARRANTY CARD |
| 22 | 190-062 | 1 | SILICON GEL |
| 23 | 099-167 | 1 | A LABEL |
| 24 | 099-168 | 1 | J LABEL |
| 25 | 099-169 | 1 | V LABEL |
| 26 | 099-014 | 1 | LABEL -MADE IN TAIWAN |
| 27 | 099-214 | 1 | LABEL- MADE IN CHINA |
| 28 | 099-232 | 2 | LABEL- GREEN |
| 29 | 099-233 | 2 | LAABEL-RED |
| 30 | 099-234 | 2 | LABEL-YELLOW |
| 31 | 160-008 | 1 | PE BAG 85×100mm |
| 32 | 160-009 | 1 | PE BAG 230×300mm |
| 33 | 160-044 | 1 | PE BAG 160×250mm |
| 34 | 160-052 | 1 | PE BAG 650×650mm |
| 35 | 121-002A | 16 | BAND-HEAD TAPPING SCREW |
| 36 | 111-046A | 14 | BAND-HEAD TAPPING SCREW |
| 37 | 110-172A | 6 | BAND-HEAD TAPPING SCREW/TWIN SCREW 3×8(AB) |
| 38 | 101-043 | 3 | FLAT-HEAD MACHINE SCREW3×8(B) |
| 39 | 110-078 | 2 | PAN-HEAD TAPPING SCREW-2 4×6(B) |
| 40 | 111-030 | 1 | PAN-HEAD TAPPING SCREW4×6(B) |
| 41 | 111-044A | 4 | BAND-HEAD TAPPING SCREW ( "NUT" ) 3×10(AB) |
| 42 | 111-057 | 6 | FLAT-HEAD TAPPING SCREW 3×6(Z) |
| 43 | 131-081 | 3 | NUT/WASHER 3mm |
| 44 | 170-396 | | MASTER CARTON |
| 45 | 262-393 | 2 | PRINTED CIRCUIT BOARD CDX802-1 |
| 46 | 262-291 | 1 | PRINTED CIRCUIT BOARD CD01-4 |
| 48 | 262-394 | 1 | PRINTED CIRCUIT BOARD CDX802-2 |
| 49 | 262-395 | 2 | PRINTED CIRCUIT BOARD CDX802-3 |
| 50 | 094-204 | 2 | 16P FLAT CABLE 110mm P=1mm |
| 51 | 003-605 | 7 | CABLE TIES CV-100 |

## CDX-802 CONTROL BOX

| ITEM | PART NUMBER | Q'TY | ENGLISH NAME |
|---|---|---|---|
| 1 | 012-053 | 1 | PANEL CONTROL |
| 2 | 031-041 | 1 | COVER |
| 3 | 021-605 | 1 | TOP ANGLE |
| 4 | 021-606 | 1 | BOTTOM ANGLE |
| 5 | 003-427 | 2 | PLATE LAMP |
| 6 | 003-428 | 2 | LAMP HOLDER |
| 7 | 002-572 | 1 | KNOB PUSH (CA) |
| 8 | 003-141 | 2 | KNOB ROTARY (A) |
| 9 | 003-144 | 2 | KNOB ROTARY (B) |
| 10 | 002-720 | 2 | KNOB SLIDE |
| 11 | 148-316 | 1 | MANE PLATE (SMALL) |
| 12 | 003-738 | 2 | VR INLAY (CA) |
| 13 | 003-739 | 2 | PR OTECTOR INLAY |
| 14 | 003-711 | 14 | HOLDER LED 3φ (7mm) |
| 15 | 002-579 | 2 | KNOB PUSH KEY ASS'Y (A) |
| 16 | 002-575 | 2 | KNOB PUSH KEY ASS'Y (B) |
| 17 | 002-576 | 1 | KNOB PUSH KEY ASS'Y (C) |
| 18 | 003-741 | 2 | PUSE KEY INLAY (CA) |
| 19 | 159-227 | 2 | VR DUST PROOF CLOTH (CA) |
| 20 | 099-252 | 2 | LAMP PAPER |
| 21 | 099-253 | 2 | LAMP LABEL |
| 22 | 153-212 | 1 | POLYFORM |
| 23 | 196-165 | 1 | SERIAL NO:LABEL |
| 24 | 099-014 | 1 | LABEL- MADE IN TAIWAN |
| 25 | 099-214 | 1 | LABEL- MADE IN CHINA |
| 26 | 190-062 | 1 | SILICON GEL |
| 27 | 160-045 | 1 | PE BAG 160×650mm |
| 28 | 110-172A | 4 | BAND-HEAD TAPPING SCREW/TWIN SCREW3×8(AB) |
| 29 | 111-046A | 4 | BAND-HEAD TAPPING SCREW3×6(AB) |
| 30 | 121-002A | 20 | BAND-HEAD TAPPING SCREW3×5(AB) |
| 31 | 111-057 | 6 | FLAT-HEAD TAPPING SCREW3×6(Z) |
| 32 | 262-396 | 1 | PRINTED CIRCUIT BOARD CDX802-5 |
| 33 | 262-397 | 1 | PRINTED CIRCUIT BOARD CDX802-6 |
| 34 | 262-398 | 2 | PRINTED CIRCUIT BOARD CDX802-7 |
| 35 | 262-286 | 2 | PRINTED CIRCUIT BOARD CD01-8 |

## PCB 802-1

| PART NUMBER | COMMENT | FOOTPRINT | Q'TY | DESIGNATORS |
|---|---|---|---|---|
| 074-182A | BA6392FP | BA6392FP | 1 | IC2 |
| 074-187 | SM5902AF | C505 | 2 | IC9, IC8 |
| 058-021 | 16.9344MHZ | CRYSTAL | 1 | CR1 |
| 058-022 | 16MHz | CRYSTAL | 1 | CR2 |
| 079-003 | 1N4148 | D10 | 1 | D3 |
| 079-027 | 1N4002 | DIODE10 | 1 | D1 |
| 079-003 | 1N4148 | DIODE6 | 4 | D11,D8, D7, D2 |
| 092-150A | SOCKET16 | FPC-16 | 1 | X1 |
| 074-194 | MM74HCT00M | M14A | 1 | IC15 |
| 074-195 | MM74HCT32M | M14A | 1 | IC14 |
| 074-196 | 74HCT157M | M16A | 2 | IC13, IC12 |
| 092-147 | DTN | MINI_DIN | 1 | X9 |
| 074-179 | NT511740C5J | NT511740 | 2 | IC11,IC10 |
| 074-184 | PCM1717E | PCM1717 | 1 | IC6 |
| 074-183B | P89C557E4 | QFP80-2 | 1 | IC7 |
| 074-192 | CXD3068Q | QFP-80P | 1 | IC3 |
| 161-173 | 161-173 | RCA2A | 1 | J1 |
| 074-104S | 4558LD | SIP8 | 1 | IC5 |
| 074-181 | BA6218 | SIP9 | 1 | IC4 |
| 074-191 | CXA2550N | SSOP20 | 1 | IC1 |
| 076-104 | 2SA1317 | TO-92 | 1 | Q6 |
| 076-137 | 2SA954 | TO-92 | 1 | Q1 |
| 076-095 | 2SC2878 | TO-92 | 2 | Q3, Q2 |
| | 2SC536 | TO-92 | 1 | Q4 |
| | 083-061 | WP001 | 1 | SW1 |
| 092-153A | PLUG02 | X2MM-2 | 1 | X12 |
| 092-154A | PLUG03 | X2MM-3 | 1 | X6 |
| 092-151A | PLUG05 | X2MM-5 | 1 | X3 |
| 092-152A | PLUG06 | X2MM-6 | 1 | X2 |
| | PLUG08 | X2MM-8 | 1 | X4 |
| 092-026A | PLUG03 | X3 | 1 | X5 |
| 092-050A | PLUG08 | X8 | 1 | X8 |

## PCB 802-2

| PART NUMBER | COMMENT | FOOTPRINT | Q'TY | DESIGNATORS |
|---|---|---|---|---|
| 092-083 | TO AC CORD | 0.156"-2 | 1 | X2 |
| 092-083 | TO TRANSF. | 0.156"-2 | 1 | X6 |
| 079-027 | 1N4002 | DIODE10 | 6 | D1, D2,D3, D4, D5, D6 |
| 059-236 | UH962021 | EMC1 | 1 | EMC1 |
| 074-074 | 7805 | TO-220 | 1 | IC3 |
| 074-186 | M317 | TO-220 | 2 | IC1, IC4 |
| 074-085 | 79L05 | TO-92 | 1 | IC2 |

## PCB 802-7

| PART NUMBER | COMMENT | FOOTPRINT | Q'TY | DESIGNATORS |
|---|---|---|---|---|
| 092-147 | MINI DIN(092-147) | MINI_DIN | 1 | X4 |
| 074-074 | NJM7805 | TO-220 | 1 | IC4 |
| 092-148 | PLUG08(092-148) | X8 | 1 | X3 |

**PCB 802-5**

| PART NUMBER | COMMENT | FOOTPRINT | QUANTITY | DESIGNATORS |
|---|---|---|---|---|
| 079-003 | 1N4148 | DIODE10 | 1 | D4 |
| 079-003 | 1N4148 | DIODE6 | 3 | D1, D2 |
| 074-171C | PIC16C505 | DIP14 | 1 | IC1 |
| 083-116 | JOG/SHUTTLE | JOG/SHUTTLE | 1 | SW6 |
| 074-180 | LC75854E | LC75854E | 1 | IC2 |
| 080-119 | GREEN | LED | 1 | LED4 |
| 080-118 | RED | LED | 4 | LED7, LED6 |
| 080-062 | YELLOW | LED | 1 | LED2 |
| 074-193 | TC74HC595AFN | M16A | 1 | IC4 |
| 082-042A | 16% | PB1 | 1 | SW3, LED3 |
| 082-042A | 4% | PB1 | 1 | SW1 |
| 082-042A | 8% | PB1 | 1 | SW2, LED8 |
| 082-042A | B/EXIT | PB1 | 1 | SW9 |
| 082-042A | BOP/RELOOP | PB1 | 1 | SW10 |
| 082-042A | CUE | PB1 | 1 | SW8 |
| 082-042A | FLY_CUE | PB1 | 1 | SW18 |
| 082-042A | INSERT | PB1 | 1 | SW23 |
| 082-042A | PITCH | PB1 | 1 | SW15 |
| 082-042A | PITCH- | PB1 | 1 | SW14 |
| 082-042A | PITCH+ | PB1 | 1 | SW17 |
| 082-042A | PLAY/PAUSE | PB1 | 1 | SW11 |
| 082-042A | SGL ACUE | PB1 | 1 | SW5 |
| 082-042A | SKIP 10 | PB1 | 1 | SW16 |
| 082-042A | SKIPFWD | PB1 | 1 | SW13 |
| 082-042A | SKIPREV | PB1 | 1 | SW12 |
| 082-042A | STOP | PB1 | 1 | SW7 |
| 082-042A | TIME | PB1 | 1 | SW4 |
| 072-112i | 10KB | RS60112 | 1 | VR1 |
| 001-081 | LCD40 | UTN-H241JV | 1 | IC3 |
| 092-044A | SOCKET02 | X2 | 1 | X1 |
| 092-148 | SOCKET08 | X8 | 1 | X2 |
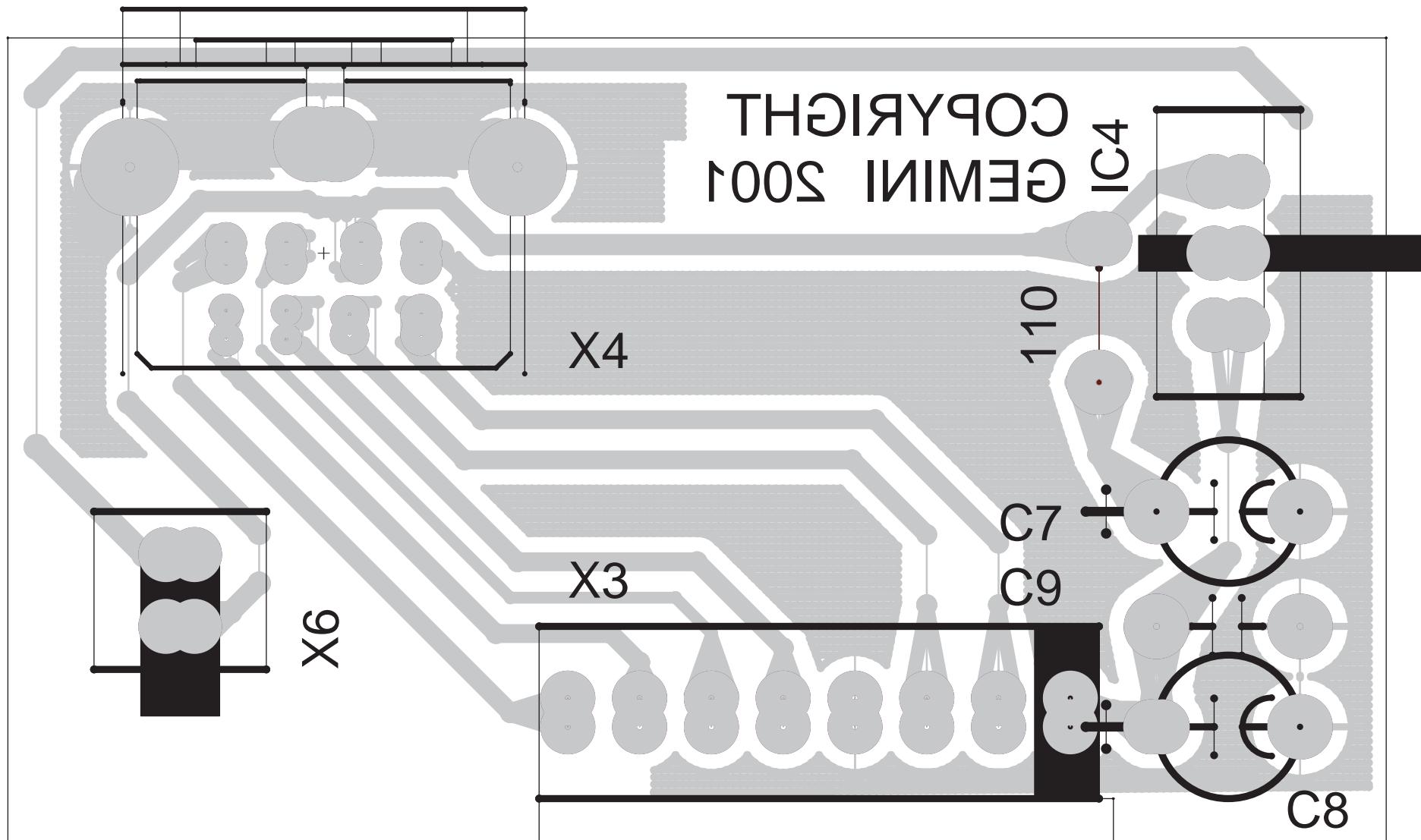
**PCB 802-6**

| PART NUMBER | COMMENT | FOOTPRINT | QUANTITY | DESIGNATORS |
|---|---|---|---|---|
| 079-003 | 1N4148 | D12 | 1 | D1 |
| 079-003 | 1N4148 | DIODE6 | 3 | D2, D3, D4 |
| 074-171C | PIC16C505 | DIP14 | 1 | IC1 |
| 083-116 | JOG/SHUTTLE | JOG/SHUTTLE | 1 | SW6 |
| 074-180 | LC75854E | LC75854E | 1 | IC2 |
| 080-119 | GREEN | LED | 3 | LED4, LED1, LED5 |
| 080-118 | RED | LED | 4 | LED3, LED6, LED7, LED8 |
| 080-062 | YELLOW | LED | 1 | LED2 |
| 074-193 | TC74HC595AFN | M16A | 1 | IC4 |
| 082-042A | 16% | PB1 | 1 | SW20 |
| 082-042A | 4% | PB1 | 1 | SW21 |
| 082-042A | 8% | PB1 | 1 | SW19 |
| 082-042A | B/EXIT | PB1 | 1 | SW9 |
| 082-042A | BOP/RELOOP | PB1 | 1 | SW10 |
| 082-042A | CUE | PB1 | 1 | SW8 |
| 082-042A | FLY_CUE | PB1 | 1 | SW18 |
| 082-042A | INSERT | PB1 | 1 | SW22 |
| 082-042A | OPEN | PB1 | 1 | SW3' |
| 082-042A | OPEN_1 | PB1 | 1 | SW3 |
| 082-042A | OPEN_2 | PB1 | 1 | SW1 |
| 082-042A | PITCH | PB1 | 1 | SW15 |
| 082-042A | PITCH- | PB1 | 1 | SW14 |
| 082-042A | PITCH+ | PB1 | 1 | SW17 |
| 082-042A | PLAY/PAUSE | PB1 | 1 | SW11 |
| 082-042A | ROBO | PB1 | 1 | SW2 |
| 082-042A | SGL ACUE | PB1 | 1 | SW5 |
| 082-042A | SKIP 10 | PB1 | 1 | SW16 |
| 082-042A | SKIPFWD | PB1 | 1 | SW13 |
| 082-042A | SKIPREV | PB1 | 1 | SW12 |
| 082-042A | STOP | PB1 | 1 | SW7 |
| 082-042A | TIME | PB1 | 1 | SW4 |
| 072-112i | 10KB | RS60112 | 1 | VR1 |
| 001-081 | LCD40 | UTN-H241JV | 1 | IC3 |
| 092-044A | SOCKET02 | X2 | 1 | X1 |
| 092-148 | SOCKET08 | X8 | 1 | X2 |

CD01-8-PCB

D1

X5

L1

L2

L3

# 802-7-PCB

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GEMINI 2001

IC4

110

X4

X6

X3

C7

C9

C8
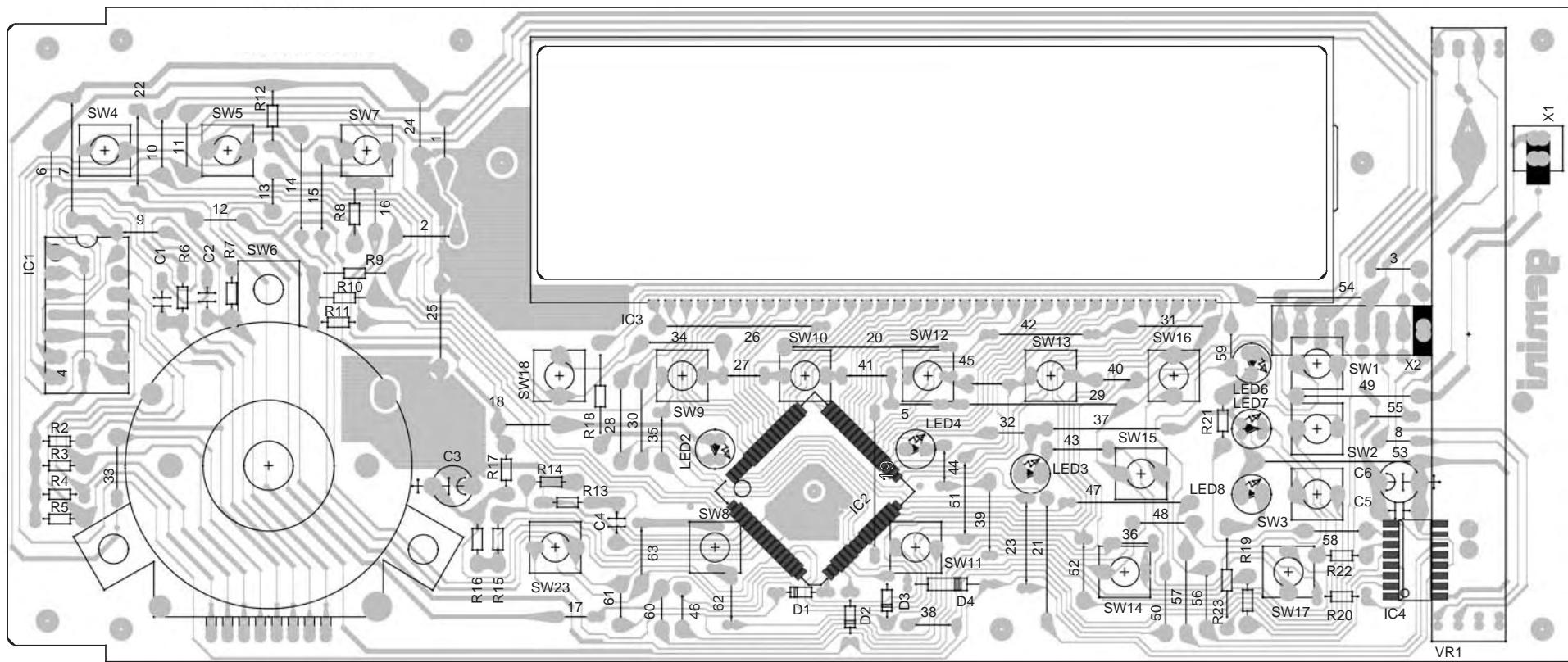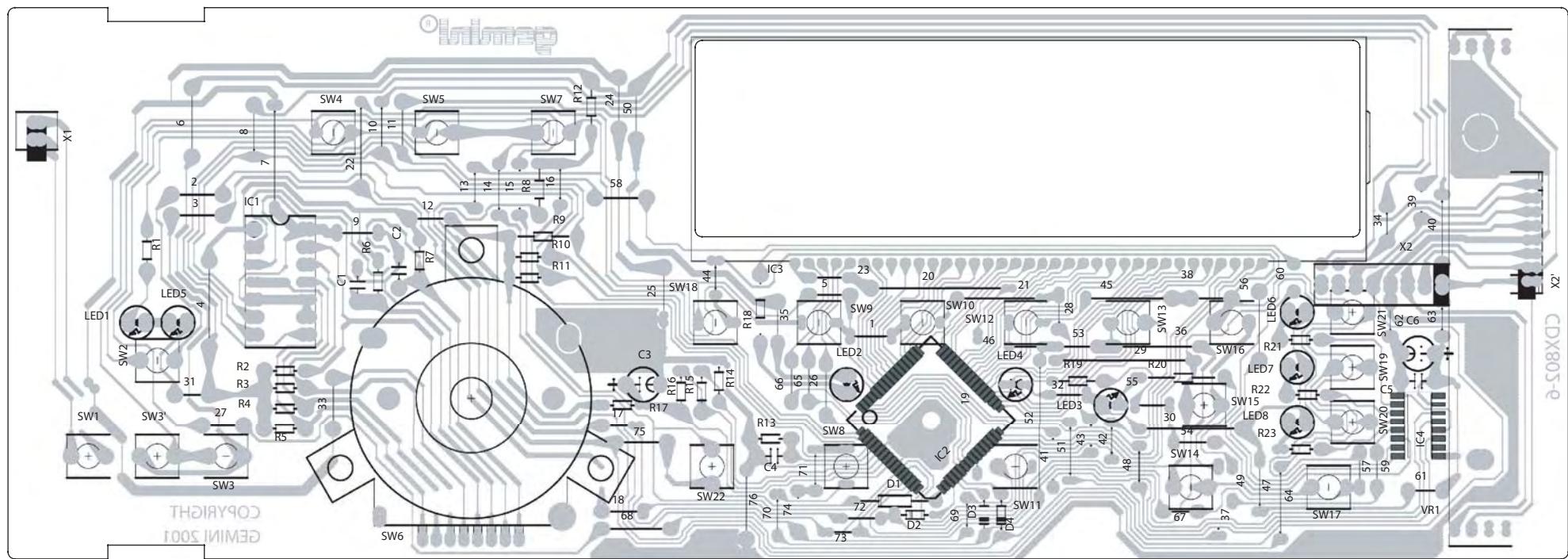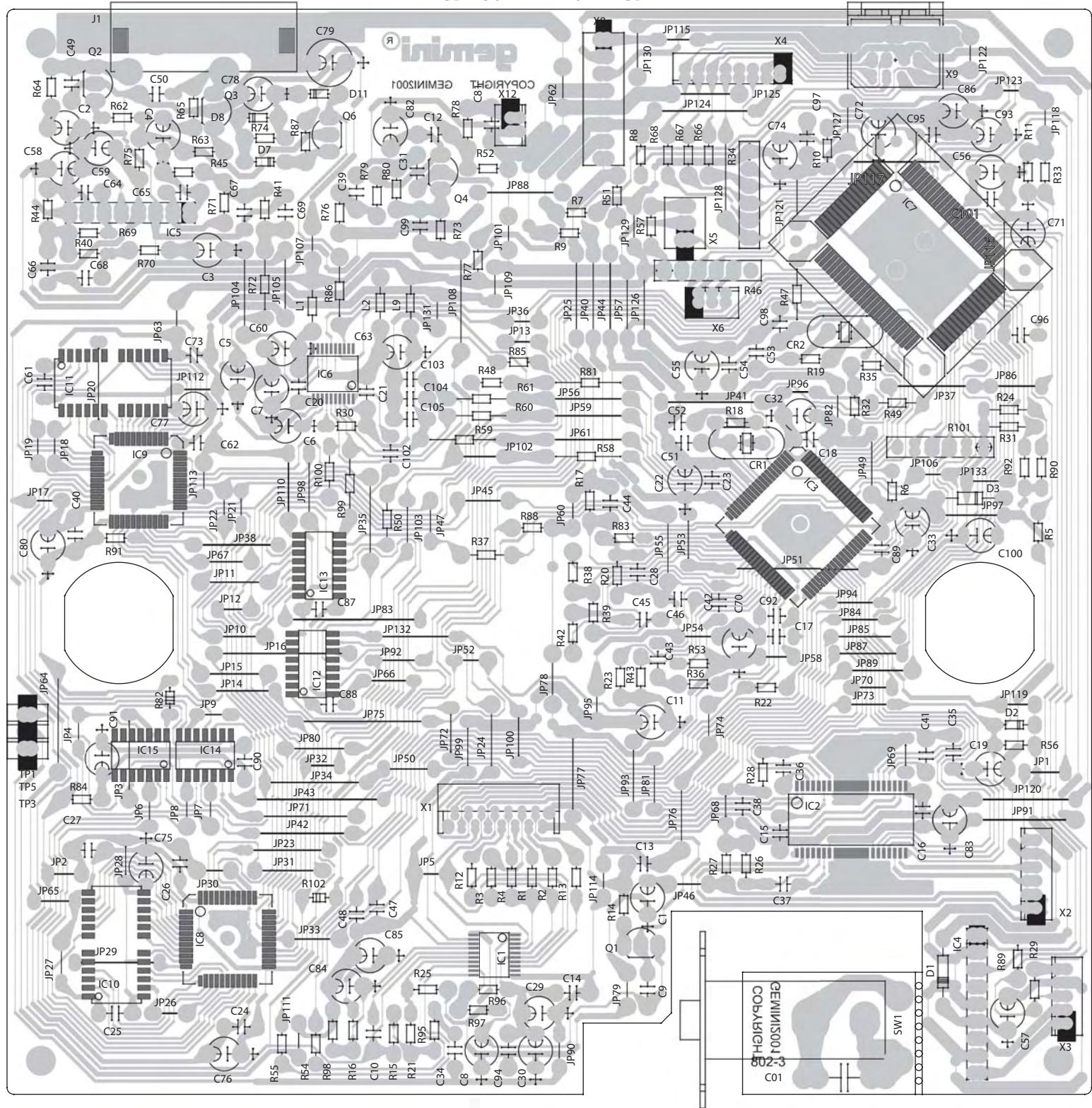
# CDX802-5 PCB-Left Side
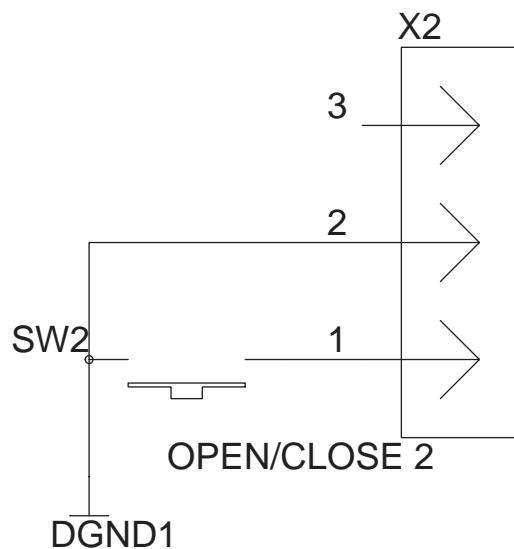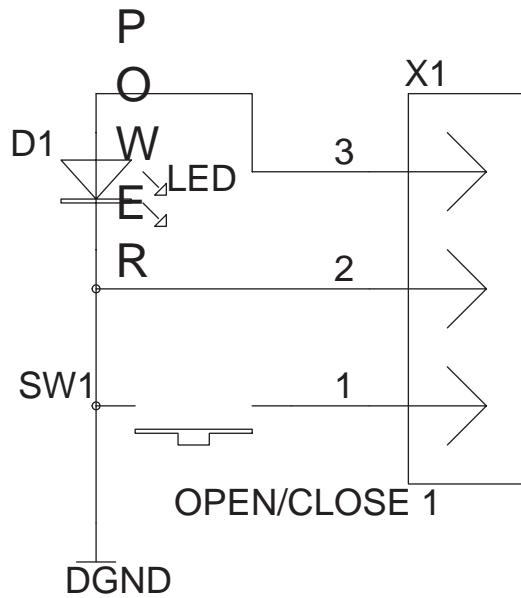
# CDX-802-6 Right Side PCB

# CDX802-1N-Main PCB

OPEN SW PCB

POWER

D1

LED

X1

3

2

SW1

1

OPEN/CLOSE 1

DGND

X2

3

2

SW2

1

OPEN/CLOSE 2

DGND1
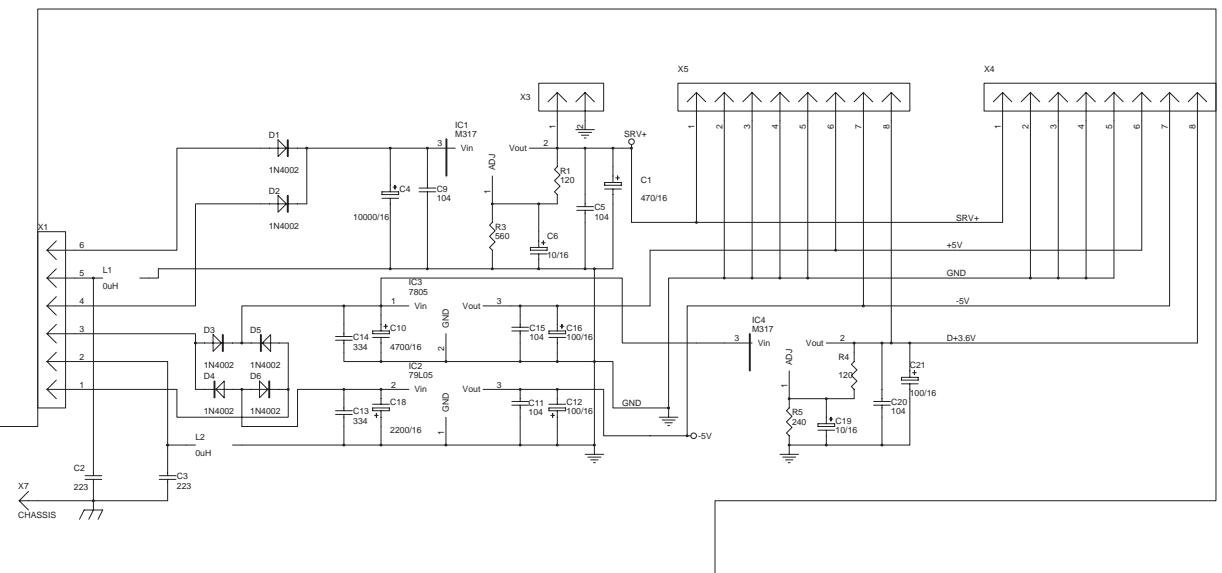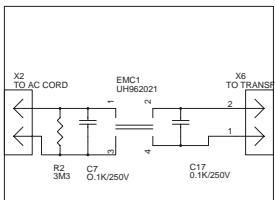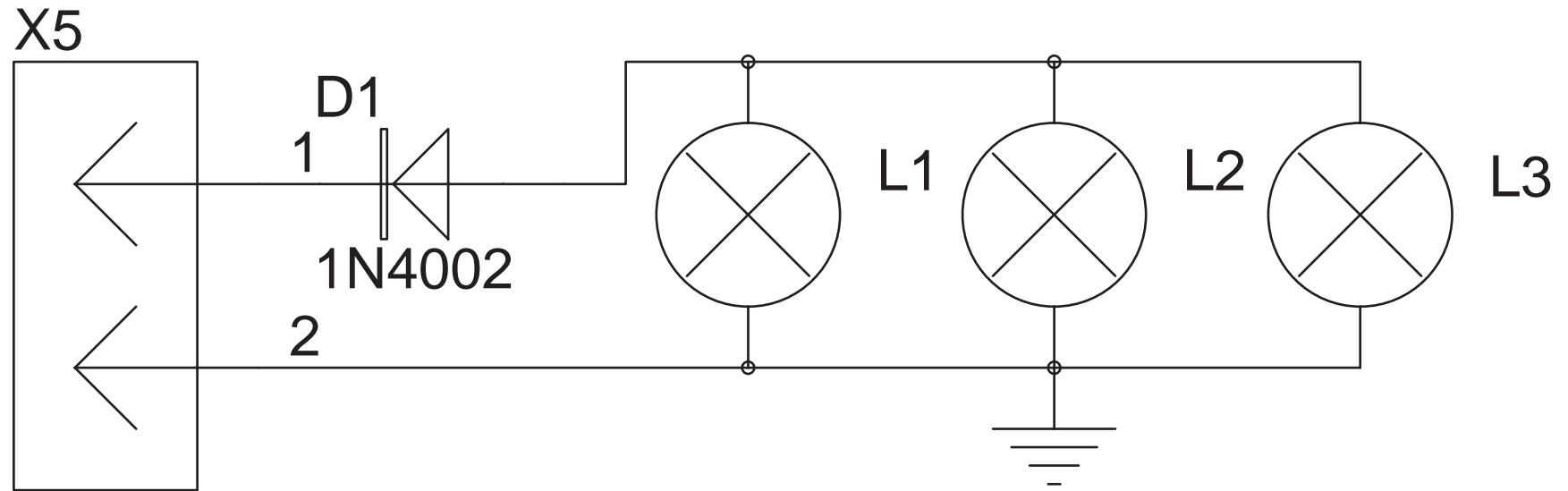
CDX802-4-Schematic

# Power Schematic
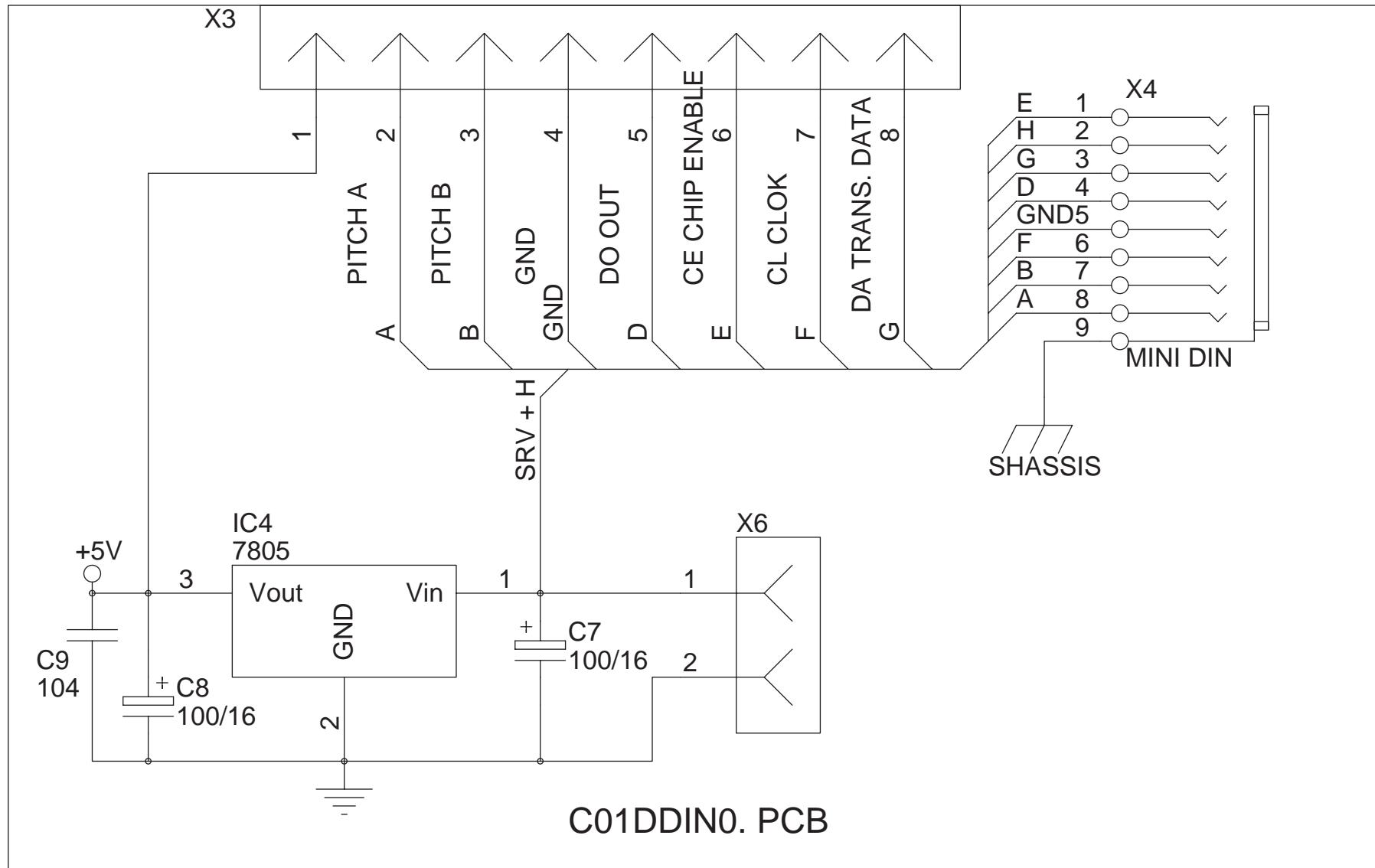
# CDX802-8-Schematic

X5

D1

1

1N4002

2
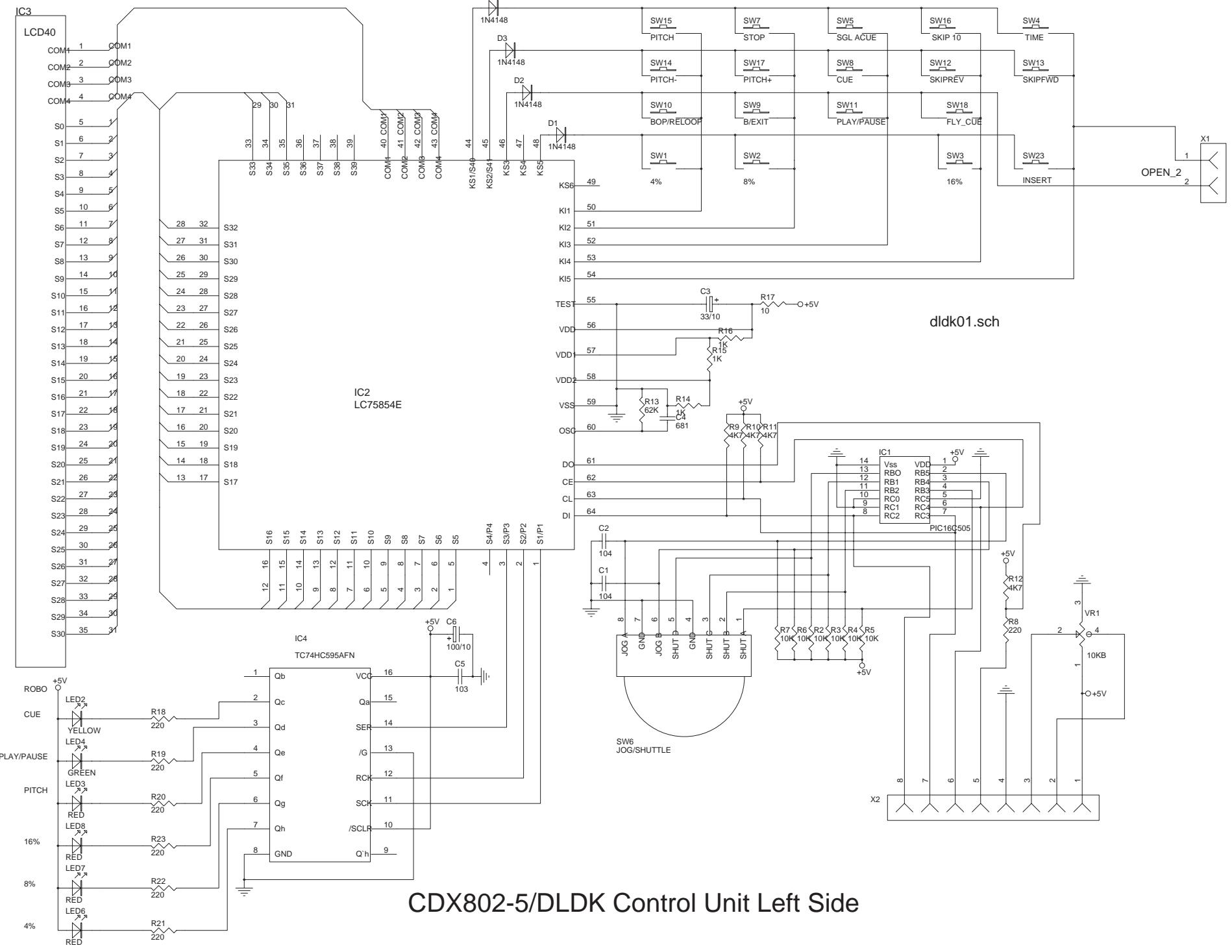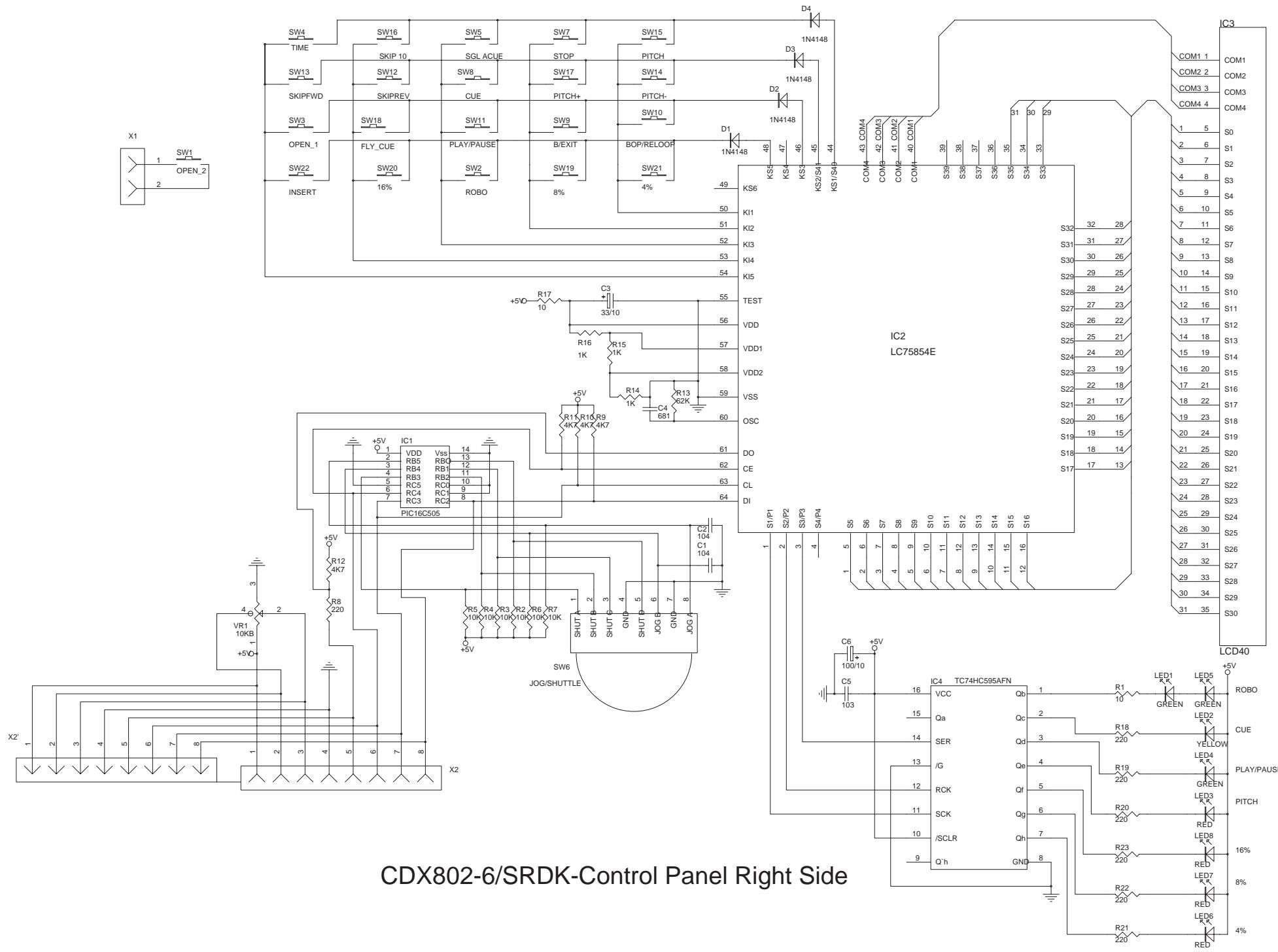
L1    L2    L3

LAMP . PCB
NOTES:  L1;L2;L3  -   DSPLAY LAMP 7V/42mA

# CDX802-7-Schematic

X3

1 — A — PITCH A
2 — B — PITCH B
3 — GND — GND
4 — D — DO OUT
5 — DO OUT
6 — E — CE CHIP ENABLE
7 — F — CL CLOK
8 — G — DA TRANS. DATA

SRV + H

X4

| E | 1 |
| H | 2 |
| G | 3 |
| D | 4 |
| GND | 5 |
| F | 6 |
| B | 7 |
| A | 8 |
| | 9 |

MINI DIN

SHASSIS

+5V

IC4
7805

| Vout | | Vin |
| 3 | GND | 1 |
| | 2 | |

C9
104

+ C8
100/16

+ C7
100/16

X6

1

2

C01DDIN0. PCB

CDX802-5/DLDK Control Unit Left Side
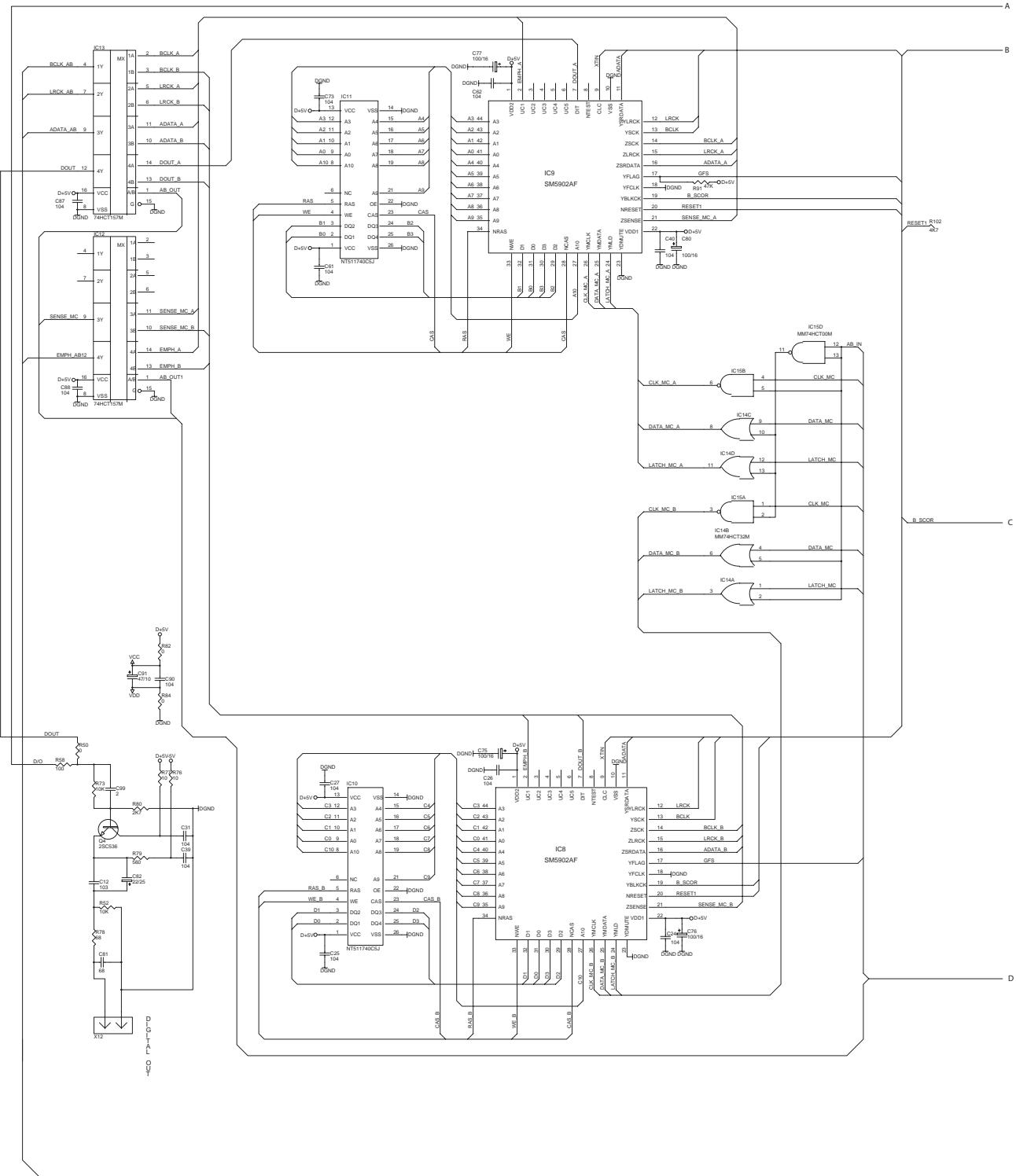
CDX802-6/SRDK-Control Panel Right Side

RF amplifier  CXA2550N-Main Schematic

GFS_MC  REMUVED

RF amplifier  CXA2550N-Main Schematic
GFS_MC  REMUVED