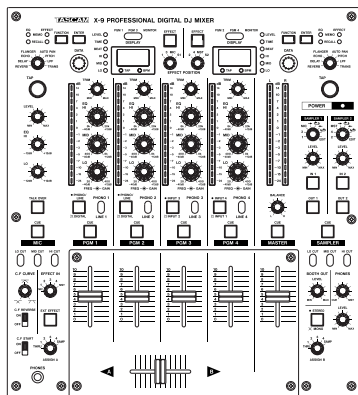




# TASCAM

TEAC Professional Division

## SERVICE MANUAL

# X-9

## Professional Digital DJ Mixer

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### INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

# 1. SPECIFICATIONS

## 仕様

### Audio I/O

#### Analog inputs

LINE 1 through LINE 4: RCA pin (unbalanced)  
 Input level: -16 dBV  
 Input impedance: 47 k $\Omega$   
 PHONO 1 through PHONO 4: RCA pin unbalanced  
 (with additional SIGNAL GND connector)  
 Input level: -54 dBV  
 Input impedance: 47 k $\Omega$   
 MIC input: XLR balanced (female)<sup>a</sup>  
 Input level: -55 dBV  
 Input impedance: 2.7 k $\Omega$   
 RETURN (L, R): 1/4" jack (unbalanced)  
 Input level: -10 dBV  
 Input impedance: 22 k $\Omega$

#### Analog outputs

MASTER OUTPUT (BALANCED): XLR balanced (male)<sup>a</sup>  
 Output level: + 4dBu  
 Output impedance: 75  $\Omega$   
 MASTER OUTPUT (UNBALANCED): RCA pin (unbalanced)  
 Output level: -10 dBV  
 Output impedance: 1 k $\Omega$   
 BOOTH OUTPUT: RCA pin (unbalanced)  
 Output level: -10 dBV  
 Output impedance: 1 k $\Omega$   
 SEND (L, R): 1/4" jack (unbalanced)  
 Output level: -10 dBV  
 Output impedance: 1 k $\Omega$   
 PHONES (x 2): Stereo 1/4" jack  
 Maximum total output level: 30 mW + 30 mW  
 Total load impedance: 32 $\Omega$

#### Digital inputs

CH 1, CH 2: RCA pin, IEC60958 TYPE I or TYPE II  
 (auto-detect)

#### Digital output

DIGITAL OUT: RCA pin, IEC60958 TYPE II (SPDIF)

a. All XLR connectors are wired 1=ground, 2-live (hot),  
 3=return (cold)

### Control I/O

FADER STOP/START 1 through 4: 3.5 mm mini-jack  
 (high=5 V, Low (on)=0 V) Tip=PLAY, GND=READY  
 FOOT SW 1, FOOT SW 2: 1/4" jack (for use with RC-30P)

### Audio specifications

#### Program equalization

HIGH (frequency range): 6 kHz to 20 kHz  
 gain: -40 dB to +12 dB  
 MID (frequency range): 200 Hz to 6 kHz  
 gain: -40 dB to +12 dB  
 LOW (frequency range): 20 Hz to 200 Hz  
 gain: -40 dB to +12 dB

### 定格

LINE 入力 (PGM1-4): RCA ピン、アンバランス  
 入力レベル: - 16dBV  
 入力インピーダンス: 47k  $\Omega$   
 PHONO 入力 (PGM1-4): RCA ピン、アンバランス  
 (およびアース端子)  
 入力レベル: - 54dBV  
 入力インピーダンス: 47k  $\Omega$   
 DIGITAL 入力 (1、2): COAXIAL  
 フォーマット: IEC60958 TYPE I/II (自動検出)  
 RETURN (L、R):  $\phi$  6.3 フォン、アンバランス  
 入力レベル: - 10dBV  
 入力インピーダンス: 22k  $\Omega$   
 MIC 入力: XLR (メス)、バランス  
 入力レベル: - 55dBV  
 入力インピーダンス: 2.7k  $\Omega$   
 MASTER 出力 (BALANCED): XLR (オス)、バランス  
 出力レベル: + 4dBu  
 出力インピーダンス: 75  $\Omega$   
 MASTER 出力 (UNBALANCED): RCA ピン、アンバランス  
 出力レベル: - 10dBV  
 出力インピーダンス: 1k  $\Omega$   
 DIGITAL 出力: COAXIAL  
 フォーマット: IEC60958 TYPE II (S/PDIF)  
 BOOTH 出力: RCA ピン、アンバランス  
 出力レベル: - 10dBV  
 出力インピーダンス: 1k  $\Omega$   
 SEND (L、R):  $\phi$  6.3 フォン、アンバランス  
 出力レベル: - 10dBV  
 出力インピーダンス: 1k  $\Omega$   
 PHONES: 30mW + 30mW (32  $\Omega$ ) (1 出力時)  
 EQ (PGM1-4)  
 HIGH: 6KHz ~ 20KHz, - 40 ~ + 12dB  
 MID: 200Hz ~ 6KHz, - 40 ~ + 12dB  
 LOW: 20Hz ~ 200Hz, - 40 ~ + 12dB  
 EQ (MIC)  
 HIGH: 10KHz, - 12 ~ + 12dB  
 LOW: 100Hz, - 12 ~ + 12dB  
 サンプラー (1、2): それぞれ最大 8 秒の録音/再生  
 エフェクターメモリー: 8 タイプそれぞれ最大 30 メモリー  
 EQ メモリー: 100 メモリー  
 電源: 100V 50-60Hz  
 消費電力: 42 W  
 外形寸法: 320 (幅) × 87 (高さ) × 355 (奥行き)  
 質量: 7.0kg  
 動作温度: 5 °C ~ 35 °C

## Audio specifications

### Program equalization

HIGH (frequency range): 6 kHz to 20 kHz  
gain: -40 dB to +12 dB

MID (frequency range): 200 Hz to 6 kHz  
gain: -40 dB to +12 dB

LOW (frequency range): 20 Hz to 200 Hz  
gain: -40 dB to +12 dB

### Microphone equalization

HIGH (frequency range): 10 kHz  
gain: -12 dB to +12 dB

LOW (frequency range): 100 Hz  
gain: -12 dB to +12 dB

### Frequency response

LINE: 20 Hz to 20 kHz  $\pm 2.0$  dB

PHONO: 20 Hz to 20 kHz  $\pm 2.0$  dB

MIC: 20 Hz to 20 kHz  $\pm 2.0$  dB

### Signal-to-noise ratio

PGM: 84 dB (IHF A weighting)

PHONO: 77 dB (IHF A weighting)

MIC: 70 dB (IHF A weighting)

### Total harmonic distortion

LINE: < 0.025%

PHONO: < 0.035%

MIC: < 0.040%

Crosstalk: > 70 dB @ 1 kHz

Samplers (1 and 2): 8 seconds of record/playback per sampler

Effector memories: 30 x 8 (types) = 240 memories

EQ memories: 100

## General specifications

### Voltage requirements:

USA/Canada: 120 VAC, 60 Hz

U.K./Europe: 230 VAC, 50 Hz

Australia 240: VAC, 50 Hz

General export: 120 VAC, 60 Hz, 230 VAC, 60 Hz

Power consumption: 42 W

Applicable electromagnetic environment: E4

Peak inrush current: 0.9 A

### Dimensions (w x d x h):

320 x 355 x 87(mm)

12.6 x 14.4 x 3.4 (in)

Weight: 7 kg (15.4 lb.)

Operating temperature: 5°C to 35°C (41°F to 95°F)

### Supplied accessories:

Rack-mounting ears

Rack-mounting kit

Fan cover

Eight RCA plug covers

Optional accessories: MIDI/Digital Out board

## 性能

### 周波数特性

LINE 入力: 20Hz ~ 20KHz,  $\pm 2.0$ dB

PHONO 入力: 20Hz ~ 20KHz,  $\pm 2.0$ dB

MIC 入力: 20Hz ~ 20KHz,  $\pm 3.0$ dB

### S/N 比

LINE 入力: 84dB (IHF A WTD)

PHONO 入力: 77dB (IHF A WTD)

MIC 入力: 70dB (IHF A WTD)

### 歪み率

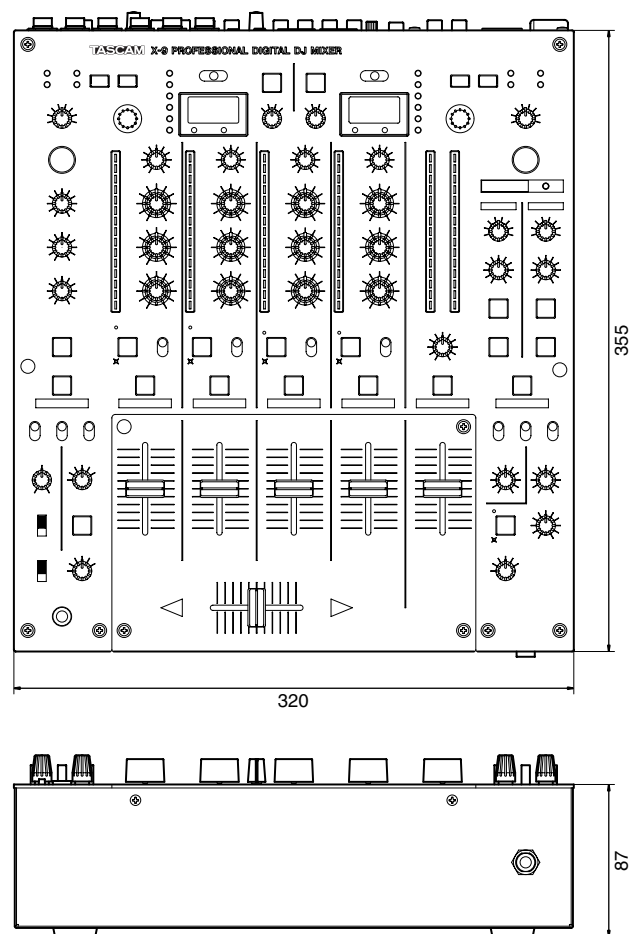
LINE 入力: 0.025%以下

PHONO 入力: 0.035%以下

MIC 入力: 0.040%以下

クロストーク: 70dB 以上 (1KHz)

## Dimensional Drawings 寸法図



## 2. TEST MODE

### テストモード

#### 2-1. Displaying the ROM Version Number

After power-up, holding down the SAMPLER OUT 1 and 2 keys and pressing EXT EFFECT key causes the ROM version number to show on the right display for several seconds. (The display looks like V1.00.)

If "Err 1", "Err 2" or "Err 3" appears in the left display at this time, the correct communications are not established between U302 (SLAVE DSP) and U303 (micro-comp.) on DSP PCB. If "Err 1", "Err 2" or "Err 3" appears in the right display, the correct communications are not established between U301 (MASTER DSP) and U303 (micro-comp.) on DSP PCB.

If the error message does not go out, the power supply voltage or DSP PCB (errors in U301, U302, U303 or others) are out of way.

#### 2-2. Entering Test Mode

After power-up, pressing the TAP (L), CUE (MIC), TAP (R) and CUE (MASTER) keys at the same time enters Test Mode. (The display reads TEST START.)

##### 2-2-1. Key operations and displays during checking procedures

1. To go on to the next check item, press the TAP (R) key.
2. To go back to the previous check item, press the TAP (L) key.
3. Upon detecting an error, you don't go on to the next step. When you can, press the TAP (L) and TAP (R) keys at the same time.
4. Upon detecting an error, either DISPLAY-L or DISPLAY-R blinks.
5. To go on to another check item in the checking process, press the FUNCTION (L) and FUNCTION (R) keys at the same time, and select a check item with DATA (R) key, then press the ENTER (L) key.

##### 2-2-2. Checking in Test Mode

###### (1) Checking the display

1. Press the TAP (R) key to enter Display check mode. (The display reads 7SEG TEST.)
2. Press the FUNCTION (L) key.
3. Each time you press the TAP (R), the next LED segment in the display lights up and at the end all segments are lit.
4. Press the TAP (R) key. (The display reads 7SEG END.)

###### (2) Checking LEDs

1. Press the TAP (R) key to enter LED check mode. (The display reads SLED TEST.)
2. Press the FUNCTION (L) key. (The display reads SLED No01.)
3. Each time you press the TAP (R) key, all LEDs on the control panel light up in sequence and at the end all of them are lit. During the process the displayed number also changes accordingly.
4. Press the TAP (R) key. (The display reads SLED END.)

#### 2-1. バージョン表示

POWER ON した後、SAMPLER OUT1 キー、SAMPLER OUT2 キーを押しながら、EXT EFFECT キーを押すと右側のディスプレイに ROM のバージョンを数秒間表示する。(表示例：V1.00)

このとき、「Err 1」、「Err 2」、「Err 3」のいずれかが、左のディスプレイに表示された場合は、DSP PCB の U302 (SLAVE DSP) と U303 (マイコン) との通信異常です。また、「Err 1」、「Err 2」、「Err 3」のいずれかが、右のディスプレイに表示された場合は、DSP PCB の U301 (MASTER DSP) と U303 (マイコン) との通信異常です。

エラー表示が消えない場合は、電源電圧の異常、DSP PCB の異常 (U301, U302, U303 等の異常) です。

#### 2-2. テストモードの入り方

POWER ON した後、TAP (L) キー、CUE (MIC) キー、TAP (R) キー、CUE (MASTER) キーを同時に押すとテストモードに入る。(表示：TEST START)

##### 2-2-1. チェック時のキー操作、表示の原則

1. チェック項目の送りは TAP (R) キーを押す。
2. チェック項目の戻りは TAP (L) キーを押す。
3. エラー検出時は、次のステップに進まない。進める場合は、TAP (L) キーと TAP (R) キーを同時に押す。
4. エラー検出時は、DISPLAY-L または DISPLAY-R のいずれかが点滅表示する。
5. チェックの途中で違うチェック項目に移行する場合は、FUNCTION (L) キーと FUNCTION (R) キーを同時に押した後、DATA (R) キーでチェック項目を選択し、ENTER (L) キーを押す。

##### 2-2-2. テストモードでのチェック

###### (1) ディスプレイチェック

1. TAP (R) キーを押し、ディスプレイチェックモードに入る。(表示：7SEG TEST)
2. FUNCTION (L) キーを押す。
3. TAP (R) キーを押すたびに、ディスプレイの LED が 1 セグメントずつ点灯してゆき、最後に全点灯する。
4. TAP (R) キーを押す。(表示：7SEG END)

###### (2) LED チェック

1. TAP (R) キーを押し、LED チェックモードに入る。(表示：SLED TEST)
2. FUNCTION (L) キーを押す。(表示：SLED No01)
3. TAP (R) キーを押すたびに、パネル上の各 LED が順に点灯してゆき、最後に全点灯する。このとき、表示の No. も変化する。
4. TAP (R) キーを押す。(表示：SLED END)

### (3) Checking the push-switches

1. Press the TAP (R) key to enter Push-switch check mode.  
(The display reads P-SW TEST.)
2. Press the FUNCTION (L) key.  
(The display reads P-SW No01.) All the illumination switches are lit except for the EFFECT (L) key which blinks.
3. Press a blinking EFFECT (L) key and it turns off, the next key starting to blink, then press this blinking key.
4. In a similar manner, continue to press a blinking key. As you do so the displayed number changes.
5. Press the last blinking key and BPM LED (L) starts blinking.
6. Press the ENTER (L) key and BMP LED (R) starts blinking.
7. Press the ENTER (R) and BMP (R) turns off.
8. Press the FUNCTION (R) key and all of the illumination keys and BMP LEDs (L and R) are lit.

### (4) Checking the toggle switches

1. Press the TAP (R) key to enter Toggle switch check mode.  
(The display reads T-SW TEST.)
2. Press the FUNCTION (L) key and HI LED (L) and MID LED (L) are lit steadily and LO LED (L) starts blinking.  
(The display reads T-SW No01.)
3. Toggle the LO CUT (L) switch between ON and OFF and LO LED (L) turns off and MID LED (L) starts blinking. As you do so, the displayed number changes.
4. Toggle the MID CUT (L) switch between ON and OFF and MID LED (L) turns off and HI LED (L) starts blinking.
5. Toggle the HI CUT (L) switch between ON and OFF and HI LED (R) and MID LED (R) are lit and LO LED (R) starts blinking.
6. In a similar manner, toggle the LO CUT (R), MID CUT (R) and HI CUT (R) switches in sequence between ON and OFF. When you are done toggling the HI CUT (R) switch between ON and OFF, the PHONE/LINE (1) key starts blinking.
7. Toggle the PHONE/LINE (1) switch between ON and OFF and the PHONE/LINE (2) key starts blinking.
8. Similarly, toggle the PHONE 1/LINE (2), PHONE 1/LINE (3), PHONE 1/LINE (4) switches in sequence between ON and OFF. When you are done toggling the PHONE1/LINE (4) switch between ON and OFF, all dots are lit in the PGM 1, PGM 3 and MASTER-L bar-graph meters.
9. Use the DISPLAY (L) switch to select PGM 1, PGM 3 and MONITOR in sequence and the PGM 1, PGM 3 and MASTER-L bar-graph meters turns off in sequence and the PGM 2, PGM 4 and MASTER-R bar-graph meters are lit.
10. Similarly, operate the DISPLAY (R) switch. When you are done operating the switch, the EXT EFFECT key starts blinking.
11. Toggle the C.F REVERSE switch between ON and OFF and the EXT EFFECT key turns off and the STEREO key starts blinking.
12. Toggle the C.F START switch between ON and OFF. When you have done so, the keys and LEDs that were lit or blinked in steps 2-11 are all lit.
13. Press the TAP (R) key. (The display reads T-SW PASS.)

### (3) プッシュ SW チェック

1. TAP (R) キーを押し、プッシュ SW チェックモードに入る。(表示: P-SW TEST)
2. FUNCTION (L) キーを押す。(表示: P-SW No01)  
自照式キーが全点灯する。EFFECT (L) キーのみ点滅。
3. 点滅している EFFECT (L) キーを押し消灯させると、次のキーが点滅するので、そのキーを押す。
4. 同様に、点滅しているキーを押してゆく。このとき、表示の No. も変化する。
5. 最後の自照式キーを押すと、BPM LED (L) が点滅する。
6. ENTER (L) キーを押すと、BPM LED (R) が点滅する。
7. ENTER (R) キーを押すと、BPM LED (R) 消灯する。
8. FUNCTION (R) キーを押すと、自照式キーと BPM LED (L) / (R) が全点灯する。

### (4) トグル SW チェック

1. TAP (R) キーを押し、トグル SW チェックモードに入る。  
(表示: T-SW TEST)
2. FUNCTION (L) キーを押すと、HI LED (L), MID LED (L) が点灯、LO LED (L) が点滅する。  
(表示: T-SW No01)
3. LO CUT (L) スイッチを ON/OFF すると、LO LED (L) が消灯し、MID LED (L) が点滅する。このとき、表示の No. も変化する。
4. MID CUT (L) スイッチを ON/OFF すると、MID LED (L) が消灯し、HI LED (L) が点滅する。
5. HI CUT (L) スイッチを ON/OFF すると、HI LED (R), MID LED (R) が点灯、LO LED (R) が点滅する。
6. 同様に、LO CUT (R), MID CUT (R), HI CUT (R) スイッチを順番に ON/OFF する。HI CUT (R) スイッチの ON/OFF 後、PHONE/LINE (1) キーが点滅する。
7. PHONE/LINE (1) スイッチを ON/OFF すると、PHONE/LINE (2) キーが点滅する。
8. 同様に、PHONE 1/LINE (2), PHONE 1/LINE (3), PHONE 1/LINE (4) スイッチを順番に ON/OFF する。PHONE 1/LINE (4) スイッチの ON/OFF 後、PGM 1, PGM 3, MASTER-L のバーメーターの全ドットが点灯する。
9. DISPLAY (L) スイッチを PGM 1, PGM 3, MONITOR の順に切換えてゆくと、PGM 1, PGM 3, MASTER-L のバーメーターが順番に消灯し、PGM 2, PGM 4, MASTER-R のバーメーターが点灯する。
10. 同様に、DISPLAY (R) スイッチを切換える。DISPLAY (R) スイッチを切換えた後は、EXT EFFECT キーが点滅する。
11. C.F REVERSE スイッチを ON/OFF する。EXT EFFECT キーが消灯し、STEREO キーが点滅する。
12. C.F START スイッチを ON/OFF する。C.F START スイッチの ON/OFF 後は、2 ~ 11 で点灯または点滅したキー、LED が全点灯する。
13. TAP (R) キーを押す。(表示: T-SW PASS)

## (5) Checking the rotary switches

1. Press the TAP (R) switch to enter Rotary switch check mode. (The display reads R-SW TEST.)
2. Press the FUNCTION (L) key and -24 and -15 are lit in the PGM 1 bar-graph meter. (The display reads R-SW No01.)
3. Turn the EFFECT (L) select switch to each of the available positions from REVERB to TRANS in sequence. The PGM 1 bar-graph reaches 0 each time you switch to the next position.
4. Turn the EFFECT (L) select switch from TRANS back to REVERB and -24 and -15 are lit in the PGM 4 bar-graph meter. When you do so, the displayed number also changes accordingly.
5. Similarly, turn the EFFECT (R) select switch. When you have done so, -24 and -15 are lit in the PGM 2 bar-graph meter.
6. Similarly, turn the EFFECT POSITION (L) switch. The PGM 2 bar-graph reaches -5. When you are done switching the EFFECT POSITION (L) switch, -24 and -15 are lit in the PGM 3 bar-graph meter.
7. Similarly, turn the EFFECT POSITION (R) switch. When you are done switching the EFFECT POSITION (R) switch, -24 and -15 are lit in the MASTER-L bar-graph meter.
8. Similarly, turn the SAMPLER 1 switch. The MASTER-L bar-graph reaches 0. When you are done switching the SAMPLER 1 switch, -24 and -15 are lit in the MASTER-R bar-graph meter.
9. Similarly, turn the SAMPLER 2 switch. When you are done turning the SMAPLER 2 switch, -24 and -15 are lit in the PGM 1 bar-graph meter.
10. Similarly, turn the EFFECT IN switch. The PGM 1 bar-graph reaches -3. When you are done turning the EFFECT IN switch, -24 and -15 are lit in the MASTER-L bar-graph meter.
11. Similarly, turn the ASSING A switch. The MASTER-L bar-graph reaches -3. When you are done turning the ASSIGN A switch, -24 and -15 are lit in the MASTER-R bar-graph meter.
12. Similarly, turn the ASSIGN B switch. When you are done turning the ASSGIN B switch, all of the bar-graph meters are lit.
13. Press the TAP (R) key. (The display reads R-SW PASS.)

## (6) Checking the encoder

1. Press the TAP (R) key to enter Encoder check mode. (The display reads ENCD TEST.)
2. Press the FUNCTION (L) key. (The display reads ENCD L0.)
3. Turn the DATA (L) dial to right and the displayed number increments.
4. When the number display reads 100, turn the dial to left for 0, until the display reads R0.
5. Similarly, turn the DATA (R) dial to right for 100, then turn it back for 0 and all the bar-graph meters are lit.
6. Press the TAP (R) key. (The display reads ENCD PASS.)

## (5) ロータリー SW チェック

1. TAP (R) キーを押し、ロータリー SW チェックモードに入る。(表示: R-SW TEST)
2. FUNCTION (L) キーを押すと、PGM 1 のバーメーターの -24, -15 が点灯する。(表示: R-SW No01)
3. EFFECT (L) 選択スイッチを REVERB から TRANS まで順に切換えると、PGM 1 のバーメーターが 0 まで順に点灯する。
4. EFFECT (L) 選択スイッチを TRANS から REVERB まで戻すと、PGM 1 のバーメーターが消灯し、PGM 4 のバーメーターの -24, -15 が点灯する。このとき、表示の No. も変化する。
5. EFFECT (R) 選択スイッチを同様に切換える。EFFECT (R) 選択スイッチを切換えた後は、PGM 2 のバーメーターの -24, -15 が点灯する。
6. EFFECT POSITION (L) スイッチを同様に切換える。PGM 2 のバーメーターは -5 まで点灯。EFFECT POSITION (L) スイッチを切換えた後は、PGM 3 のバーメーターの -24, -15 が点灯する。
7. EFFECT POSITION (R) スイッチを同様に切換える。EFFECT POSITION (R) スイッチを切換えた後は、MASTER-L のバーメーターの -24, -15 が点灯する。
8. SAMPLER 1 スイッチを同様に切換える。MASTER-L のバーメーターは 0 まで点灯。SAMPLER 1 スイッチを切換えた後は、MASTER-R のバーメーターの -24, -15 が点灯する。
9. SAMPLER 2 スイッチを同様に切換える。SAMPLER 2 スイッチを切換えた後は、PGM 1 のバーメーターの -24, -15 が点灯する。
10. EFFECT IN スイッチを同様に切換える。PGM 1 のバーメーターは -3 まで点灯。EFFECT IN スイッチを切換えた後は、MASTER-L のバーメーターの -24, -15 が点灯する。
11. ASSIGN A スイッチを同様に切換える。MASTER-L のバーメーターは -3 まで点灯。ASSIGN A スイッチを切換えた後は、MASTER-R のバーメーターの -24, -15 が点灯する。
12. ASSIGN B スイッチを同様に切換える。ASSIGN B スイッチを切換えた後は、すべてのバーメーターが全点灯する。
13. TAP (R) キーを押す。(表示: R-SW PASS)

## (6) エンコーダーチェック

1. TAP (R) キーを押し、エンコーダーチェックモードに入る。(表示: ENCD TEST)
2. FUNCTION (L) キーを押す。(表示: ENCD L 0)
3. DATA (L) ダイアルを右に回すと、表示の数字が上がってゆく。
4. 数字が 100 までいったら、左に回わして 0 まで戻す。0 まで戻すと、表示が R 0 に変わる。
5. 同様に、DATA (R) ダイアルを数字が 100 になるまで右に回し、そして左に回して 0 まで戻すと、バーメーターが全点灯する。
6. TAP (R) キーを押す。(表示: ENCD PASS)

**(7) Checking the VRs**

1. Press the TAP (R) key to enter VR check mode.  
(The display reads R-VR TEST.)
2. Press the FUNCTION (L) key.  
(The display reads R-VR CFCU.)
3. Turn the C.F CURVE knob from minimum all the way to maximum and the PGM 1 bar-graph meter reading increases up to +14.
4. Turn the knob from maximum all the way back to minimum and the PGM 1 bar-graph meter turns off and the display reading changes. (The display reads R-VR HFR1.)
5. Similarly, turn the EQ HI FREQ knob on the PGM 1 stripe from MIN to MAX then back to MIN. The PGM 1 bar-graph meter is lit. The display reading changes when you turn the knob back to MIN. (The display reads R-VR HGT1.)
6. Similarly, turn the EQ HI GAIN knob on the PGM 1 stripe from MIN to MAX then back to MIN. The PGM 1 bar-graph meter is lit.
7. Similarly, turn the other knobs, as indicated in sequence on the display.  
EQ MID FREQ knob on PGM 1 stripe:  
PGM 1 bar-graph meter lit  
EQ MID GAIN knob on PGM 1 stripe:  
PGM 1 bar-graph meter lit  
EQ LO FREQ knob on PGM 1 stripe:  
PGM 1 bar-graph meter lit  
EQ LO GAIN knob on PGM 1 stripe:  
PGM 1 bar-graph meter lit  
EQ HI FREQ knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ HI GAIN knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ MID FREQ knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ MID GAIN knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ LO FREQ knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ LO GAIN knob on PGM 2 stripe:  
PGM 2 bar-graph meter lit  
EQ HI FREQ knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ HI GAIN knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ MID FREQ knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ MID GAIN knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ LO FREQ knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ LO GAIN knob on PGM 3 stripe:  
PGM 3 bar-graph meter lit  
EQ HI FREQ knob on PGM 4 stripe:  
PGM 4 bar-graph meter lit  
EQ HI GAIN knob on PGM 4 stripe:  
PGM 4 bar-graph meter lit  
EQ MID FREQ knob on PGM 4 stripe:  
PGM 4 bar-graph meter lit  
EQ MID GAIN knob on PGM 4 stripe:  
PGM 4 bar-graph meter lit

**(7) VR チェック**

1. TAP (R) キーを押し、VR チェックモードに入る。  
(表示: R-VR TEST)
2. FUNCTION (L) キーを押す。(表示: R-VR CFCU)
3. C.F CURVE つまみを最小から最大に回してゆくと、PGM 1 のバーメーターが上がってゆき +14 まで点灯する。
4. 最大から最小まで戻すと、PGM 1 のバーメーターが消灯し表示が変化する。(表示: R-VR HFR1)
5. PGM 1 の EQ HI FREQ つまみを同様に MIN → MAX → MIN と回す。PGM 1 のバーメーター点灯。最小まで戻すと表示が変化する。(表示: R-VR HGT1)
6. PGM 1 の EQ HI GAIN つまみを同様に MIN → MAX → MIN と回す。PGM 1 のバーメーター点灯。
7. 同様に、表示されたつまみを順番に回してゆく。  
PGM 1 の EQ MID FREQ つまみ:  
PGM 1 のバーメーター点灯  
PGM 1 の EQ MID GAIN つまみ:  
PGM 1 のバーメーター点灯  
PGM 1 の EQ LO FREQ つまみ:  
PGM 1 のバーメーター点灯  
PGM 1 の EQ LO GAIN つまみ:  
PGM 1 のバーメーター点灯  
PGM 2 の EQ HI FREQ つまみ:  
PGM 2 のバーメーター点灯  
PGM 2 の EQ HI GAIN つまみ:  
PGM 2 のバーメーター点灯  
PGM 2 の EQ MID FREQ つまみ:  
PGM 2 のバーメーター点灯  
PGM 2 の EQ MID GAIN つまみ:  
PGM 2 のバーメーター点灯  
PGM 2 の EQ LO FREQ つまみ:  
PGM 2 のバーメーター点灯  
PGM 2 の EQ LO GAIN つまみ:  
PGM 2 のバーメーター点灯  
PGM 3 の EQ HI FREQ つまみ:  
PGM 3 のバーメーター点灯  
PGM 3 の EQ HI GAIN つまみ:  
PGM 3 のバーメーター点灯  
PGM 3 の EQ MID FREQ つまみ:  
PGM 3 のバーメーター点灯  
PGM 3 の EQ MID GAIN つまみ:  
PGM 3 のバーメーター点灯  
PGM 3 の EQ LO FREQ つまみ:  
PGM 3 のバーメーター点灯  
PGM 3 の EQ LO GAIN つまみ:  
PGM 3 のバーメーター点灯  
PGM 4 の EQ HI FREQ つまみ:  
PGM 4 のバーメーター点灯  
PGM 4 の EQ HI GAIN つまみ:  
PGM 4 のバーメーター点灯  
PGM 4 の EQ MID FREQ つまみ:  
PGM 4 のバーメーター点灯  
PGM 4 の EQ MID GAIN つまみ:  
PGM 4 のバーメーター点灯  
PGM 4 の EQ LO FREQ つまみ:  
PGM 4 のバーメーター点灯  
PGM 4 の EQ LO GAIN つまみ:  
PGM 4 のバーメーター点灯

EQ LO FREQ knob on PGM 4 stripe:

PGM 4 bar-graph meter lit

EQ LO GAIN knob on PGM 4 stripe:

PGM 4 bar-graph meter lit

LEVEL knob on SAMPLER 1 stripe:

MASTER-L bar-graph meter lit

LEVEL knob on SAMPLER 2 stripe:

MASTER-R bar-graph meter lit

8. When turning the LEVEL knob on the SAMPLER 2 stripe all the way back to MIN, the display changes to read "R-VR MBAL".
9. Push the MASTER fader all the way up.
10. Turn the MASTER BALANCE knob all the way to left and the MASTER-L bar-graph reaches +2.
11. Set the MASTER BALANCE knob to the center position and both the MASTER-L and MASTER-R bar-graphs reach +2.
12. Turn the MASTER BALANCE knob all the way to right and the only the MASTER-R bar-graph meter reading reaches +2.
13. Turn the MASTER BALANCE knob all the way back to left and all the bar-graph meters are lit.
14. Press the TAP (R) key. (The display reads R-VR PASS.)

## (8) Checking the faders

1. Press the TAP (R) key to enter Fader check mode. (The display reads FADR TEST.)
2. Press the FUNCTION (L) key. (The display reads FADR FAP1.) "FAP1" blinks.
3. Press the ENTER (L) key and the display is switched to hexadecimal mode.
4. As you push the PGM 1 fader up, the hexadecimal number also goes up.
5. Move the PGM 1 fader from MIN up to MAX then back to MIN and the display changes to read "FADR FAP2" with "FAP2" blinking.
6. Similarly, press the ENTER (L) key and move the PGM 2 fader.
7. Similarly, move the PGM 3 fader then the PGM 4 fader.
8. When pulling the PGM 4 fader back all the way down and the display changes to read "FADR FCR0" with "FCR0" blinking.
9. Press the ENTER (L) key, move the cross fader from A to B then back to A, the display changes to read "FADR PASS" and all the bar-graph meters are lit.

## (9) Checking the footswitch

1. Press the TAP (R) key to enter Footswitch check mode. (The display reads FOOT TEST.)
2. Connect the footswitch to the FOOT SW (1/2) jack.
3. Press the FUNCTION (L) key. (The display reads "FADR 1-00.") "1-00" blinks
4. When footswitch 1 is pressed On, the display changes to read "FADR 1-01".
5. Press footswitch 1 On and Off three times and the display changes to read "FADR 2-00", then similarly press footswitch 2 On and Off.
6. Press footswitch 2 On and Off three times and the display changes to read "FOOT PASS".

SAMPLER 1 の LEVE つまみ:

MASTER-L のバーメーター点灯

SAMPLER 2 の LEVE つまみ:

MASTER-R のバーメーター点灯

8. SAMPLER 2 の LEVE つまみを最小に戻すと、表示が "R-VR MBAL" に変わる。
9. MASTER フェーダーを最大にする。
10. MASTER BALANCE つまみを L 側一杯にすると、MASTER-L のバーメーターのみが +2 まで点灯する。
11. MASTER BALANCE つまみをセンターにすると MASTER-L と MASTER-R のバーメーターが +2 まで点灯する。
12. MASTER BALANCE つまみを R 側一杯にすると、MASTER-R のバーメーターのみが +2 まで点灯する。
13. MASTER BALANCE つまみを L 側一杯に戻すと、すべてのバーメーターが全点灯する。
14. TAP (R) キーを押す。(表示: R-VR PASS)

## (8) フェーダーチェック

1. TAP (R) キーを押し、フェーダーチェックモードに入る。(表示: FADR TEST)
2. FUNCTION (L) キーを押す。(表示: FADR FAP1) "FAP1" は点滅表示。
3. ENTER (L) キーを押すと、表示が 16 進表示に変わる。
4. PGM 1 のフェーダーを上げてゆくと、16 進表示の数値も上がってゆく。
5. PGM 1 のフェーダーを MIN → MAX → MIN と動かすと、表示が "FADR FAP2" に変わる。"FAP2" は点滅表示。
6. 同様に、ENTER (L) キーを押してから、PGM 2 のフェーダーを動かす。
7. 同様に、PGM 3 のフェーダー、PGM 4 のフェーダーを順番に動かす。
8. PGM 4 のフェーダーを最小に戻すと、表示が "FADR FCR0" に変わる。"FCR0" は点滅表示。
9. ENTER (L) キーを押してから、クロスフェーダーを A → B → A と動かすと、表示が "FADR PASS" に変わり、バーメーターが全点灯する。

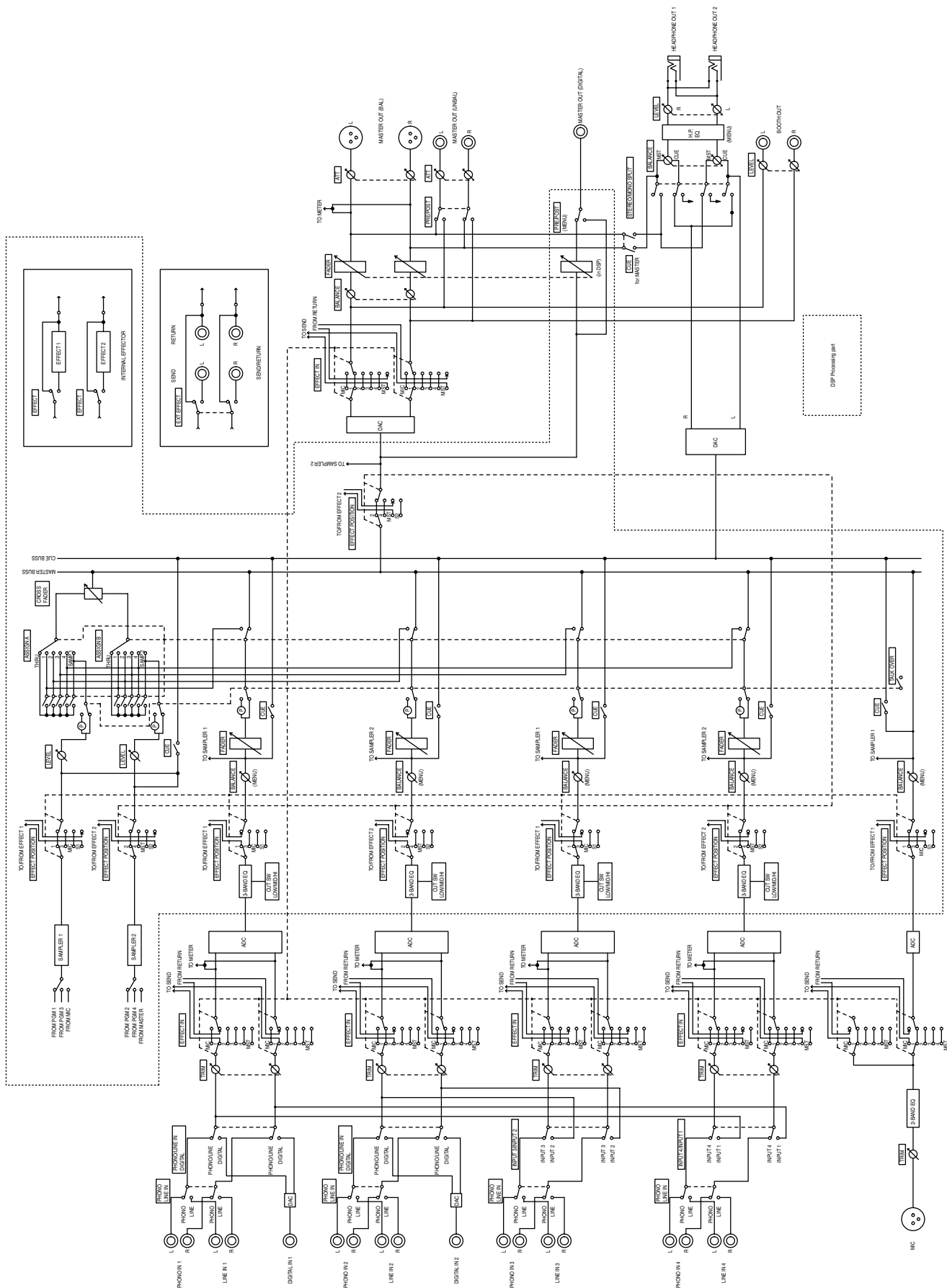
## (9) フット SW チェック

1. TAP (R) キーを押し、フット SW チェックモードに入る。(表示: FOOT TEST)
2. FOOT SW (1, 2) 端子にフットスイッチを接続する。
3. FUNCTION (L) キーを押す。(表示: FADR 1-00) "1-00" は点滅表示。
4. フットスイッチ 1 を ON すると、表示が "FADR 1-01" に変わる。
5. フットスイッチ 1 を 3 回 ON/OFF すると、表示が "FADR 2-00" に変わるので、同様にフットスイッチ 2 を ON/OFF する。
6. フットスイッチ 2 を 3 回 ON/OFF すると、表示が "FOOT PASS" に変わる。



# 3. BLOCK DIAGRAM

ブロックダイアグラム



## PARTS LIST SECTION

### NOTES

- PC boards shown are viewed from parts side.
- Parts marked with \* require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in the manual.
- △ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.  
[J]: JAPAN [US/C]: U.S.A./CANADA [K]: KOREA [E]: EUROPE  
[UK]: U.K. [A]: AUSTRALIA

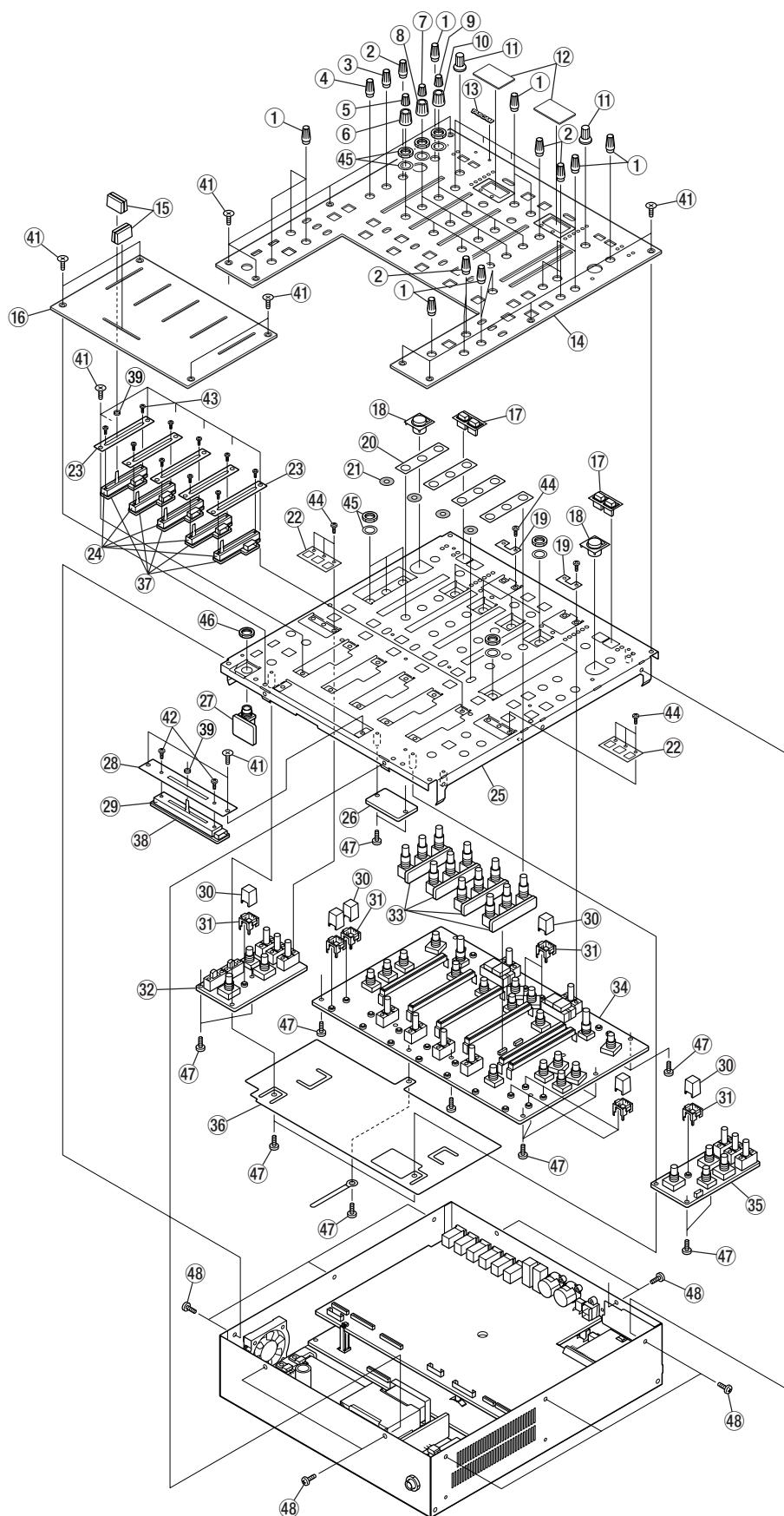
### 注 意

- プリント基板は部品面が示されています。
- \*印の部品は納期が若干かかります。  
あらかじめご了承ください。
- 分解図に部番のない部品及び品番のない部品は供給しません。
- 標準の抵抗、コンデンサーは省略してあります。  
回路図を参照してください。
- △は安全重要部品です。  
交換する時は必ずティアック指定の部品を使用してください。
- 仕向先  
[J]: JAPAN [US/C]: U.S.A./CANADA [K]: KOREA [E]: EUROPE  
[UK]: U.K. [A]: AUSTRALIA

# 4. EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

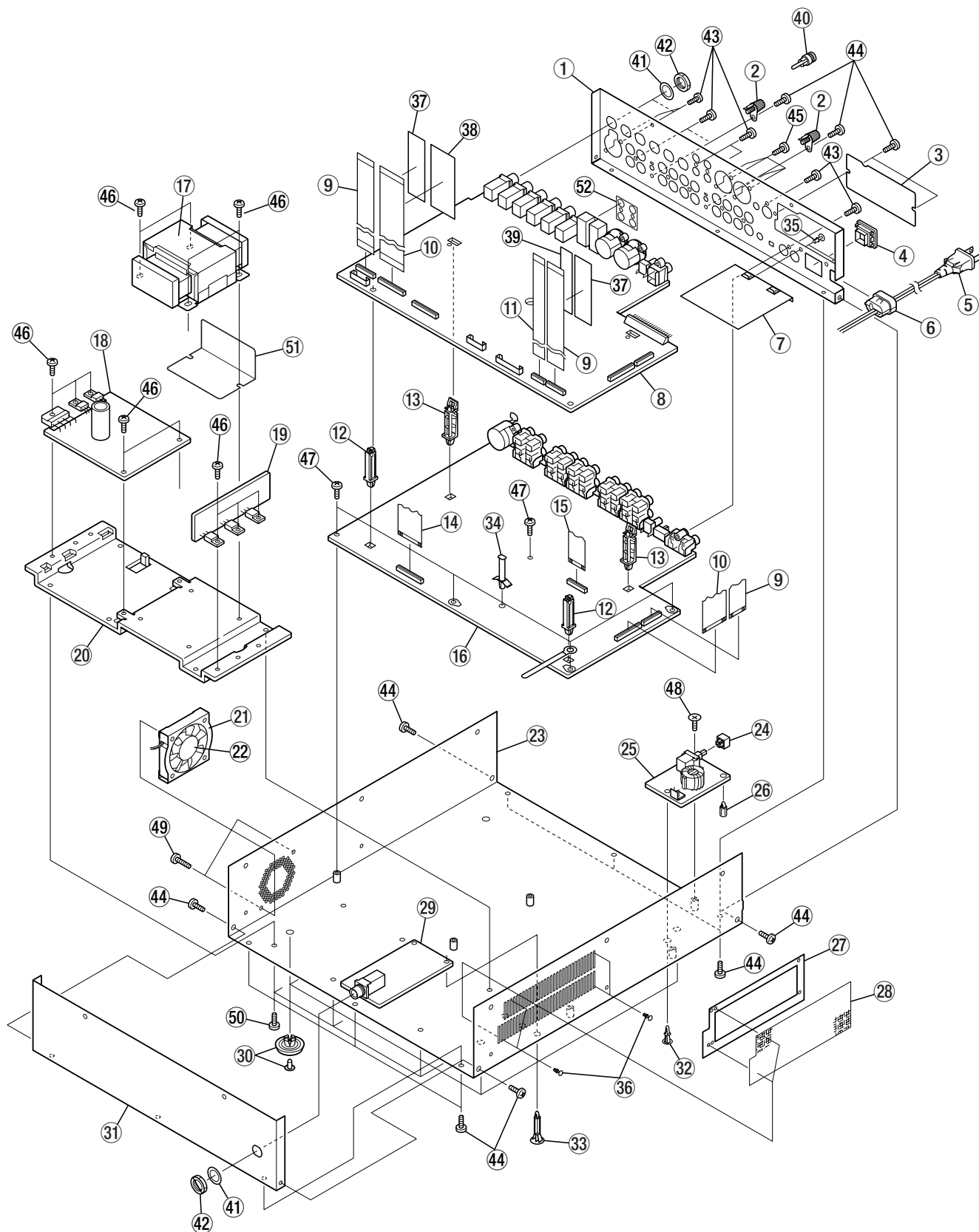
## EXPLODED VIEW-1



**EXPLODED VIEW-1**

| REF. NO. | PARTS NO.   | DESCRIPTION                 | REMARKS                                 |
|----------|-------------|-----------------------------|-----------------------------------------|
| 1- 1     | 9260382202  | KNOB, POTARIY N64/WHT       |                                         |
| 1- 2     | 9260381902  | KNOB, POTARIY N64/RED       |                                         |
| 1- 3     | 9260382002  | KNOB, POTARIY N64/BLU       |                                         |
| 1- 4     | 9260382102  | KNOB, POTARIY N64/GRN       |                                         |
| 1- 5     | 9260386501  | KNOB VR(B) ASSY N64/GRN     |                                         |
| 1- 6     | 9260385802  | KNOB VR(A) ASSY, N64/GRN    |                                         |
| 1- 7     | 9260386301  | KNOB VR(B) ASSY, N64/ORG    |                                         |
| 1- 8     | 9260385602  | KNOB VR(A) ASSY, N64/ORG    |                                         |
| 1- 9     | 9260386101  | KNOB VR(B) ASSY N64/BLU     |                                         |
| 1-10     | 9260385402  | KNOB VR(A) ASSY, N64/BLU    |                                         |
| 1-11     | M00630601D  | KNOB, POD N63               |                                         |
| 1-12     | 9260372001  | WINDOW, LED                 |                                         |
| 1-13     | *9260271101 | BADGE, TASCAM SILVER        |                                         |
| 1-14     | *9260371001 | PANEL, TOP                  |                                         |
| 1-15     | 9260382902  | KNOB, SLIDE                 |                                         |
| 1-16     | *9260376001 | PANEL, FADER                |                                         |
| 1-17     | 9260377000  | BUTTON, 6X10                |                                         |
| 1-18     | 9260344001  | BUTTON, TAP (N64)           |                                         |
| 1-19     | *9260391600 | MASK (A)                    |                                         |
| 1-20     | *9260387800 | WASHER, VR                  |                                         |
| 1-21     | *9260391500 | WASHER, SW                  |                                         |
| 1-22     | 9260391700  | MASK (B)                    |                                         |
| 1-23     | *9260380000 | BRACKET, INPUT FADER        |                                         |
| 1-24     | 9172040900  | VR, RS4511S14 10KB          |                                         |
| 1-25     | *9260378001 | CHASSIS, MIXER              |                                         |
| 1-26     |             | CONNECTOR PCB ASSY .....    | GATHER A PCB ASSY (Refer to page 18)    |
| 1-27     |             | JACK PCB ASSY .....         | GATHER A PCB ASSY (Refer to page 18)    |
| 1-28     | *9260381100 | BRACKET, CROSS FADER        |                                         |
| 1-29     | 9172041000  | VR, RS45N1114 10KB          |                                         |
| 1-30     | 9260336500  | BUTTON, BLT-IN LED          |                                         |
| 1-31     | 9260299400  | BASE, BLT-IN LED            |                                         |
| 1-32     |             | ASSIGN-A PCB ASSY .....     | GATHER A PCB ASSY (Refer to page 18)    |
| 1-33     |             | EQ PCB ASSY .....           | GATHER A PCB ASSY (Refer to page 18)    |
| 1-34     |             | TOP PCB ASSY .....          | GATHER PCB ASSY, TOP (Refer to page 16) |
| 1-35     |             | ASSIGN-B PCB ASSY .....     | GATHER A PCB ASSY (Refer to page 18)    |
| 1-36     | *9260391800 | MASK, FADER                 |                                         |
| 1-37     |             | VR PCB ASSY .....           | GATHER A PCB ASSY (Refer to page 18)    |
| 1-38     |             | CROSS FADER PCB ASSY .....  | GATHER A PCB ASSY (Refer to page 18)    |
| 1-39     | 9260392900  | SPRING, $\phi$ 0.2          |                                         |
| 1-41     | *9783573007 | SCREW, WHIS BAND M3X7 (BLK) |                                         |
| 1-42     | *9783573004 | SCREW, WHIS BAND M3X4 (BLK) |                                         |
| 1-43     | *9783062003 | SCREW, PTT-S M2X3 (BLK)     |                                         |
| 1-44     | *9783232604 | SCREW, BTT-S M2. 6X4 (BLK)  |                                         |
| 1-45     | *9781801000 | NUT, REC VR M9              |                                         |
| 1-46     | *9781801200 | NUT, M12                    |                                         |
| 1-47     | *9783203006 | SCREW, BTT-S M3X6           |                                         |
| 1-48     | *9783243006 | SCREW, BTT-B M3X6 (BLK)     |                                         |

## EXPLODED VIEW-2



**EXPLODED VIEW-2**

| REF. NO. | PARTS NO.    | DESCRIPTION                          | REMARKS                                  |
|----------|--------------|--------------------------------------|------------------------------------------|
| 2- 1     | * 9260381403 | PANEL, REAR                          |                                          |
| 2- 2     | 9144519800   | GND TERMINAL                         |                                          |
| 2- 3     | * 9260381500 | PANEL, BLANK                         |                                          |
| 2- 4     | 5800607010   | ESCUTCHEON, P-N66-A                  |                                          |
| 2- 5     | △ E00423900A | POWER CORD, 3A 250V [K]              |                                          |
|          | △ 9109025711 | AC CORD [E]                          |                                          |
|          | △ 9109026010 | AC CORD [A]                          |                                          |
|          | △ 9109026112 | AC CORD [J]                          |                                          |
|          | △ 9109027701 | AC CORD WITH FUSE [UK]               |                                          |
|          | △ 9109029000 | AC CABLE 2P [US/C]                   |                                          |
| 2- 6     | * 9121000102 | BUSHING, #2271                       |                                          |
| 2- 7     | 9260386903   | COVER, POWER SW                      |                                          |
| 2- 8     |              | DSP PCB ASSY .....                   | GATHER PCB ASSY, DSP (Refer to page 17)  |
| 2- 9     | 9107147700   | WIRE ASSY, FFC2 20P                  |                                          |
| 2-10     | 9107147600   | WIRE ASSY, FFC1 30P                  |                                          |
|          |              |                                      |                                          |
| 2-11     | 9107147800   | WIRE ASSY, FFC3 14P                  |                                          |
| 2-12     | * 9260381800 | PCB HOLDER, PHD 30                   |                                          |
| 2-13     | * 9260381700 | PCB HOLDER, KGES 30                  |                                          |
| 2-14     | 9107148800   | WIRE ASSY, FFC6 30P                  |                                          |
| 2-15     | 9107148000   | WIRE ASSY, FFC5 20P                  |                                          |
| 2-16     |              | MAIN PCB ASSY .....                  | GATHER PCB ASSY, MAIN (Refer to page 15) |
| 2-17     | △ 9125145900 | POWER TRANSFORMER, Z80282D [J]       |                                          |
|          | △ 9125146000 | POWER TRANSFORMER, Z80283D [US/C]    |                                          |
|          | △ 9125146100 | POWER TRANSFORMER, Z80284D [E]       |                                          |
|          | △ 9125146200 | POWER TRANSFORMER, Z80285D [A]       |                                          |
|          | △ 9125145850 | POWER TRANSFORMER, PZ-J2052A [K, UK] |                                          |
| 2-18     |              | POWER PCB ASSY .....                 | GATHER A PCB ASSY (Refer to page 18)     |
| 2-19     |              | POWER IC PCB ASSY .....              | GATHER A PCB ASSY (Refer to page 18)     |
| 2-20     | * 9260383001 | HEAT SINK                            |                                          |
| 2-21     | * 9260389001 | BRACKET, FAN                         |                                          |
| 2-22     | M01073100A   | DC FAN MOTOR, MF52A-12-009           |                                          |
| 2-23     | * 9260381204 | CASE, BOTTOM                         |                                          |
| 2-24     | 1678822808   | BUTTON-08                            |                                          |
| 2-25     |              | POWER SW PCB ASSY .....              | GATHER A PCB ASSY (Refer to page 18)     |
| 2-26     | * 9260390600 | SPACER SUPPORT, MCH-10               |                                          |
| 2-27     | 9260392502   | PLATE, NET                           |                                          |
| 2-28     | 9260392200   | NET/CASE BOTTOM                      |                                          |
| 2-29     |              | PHONE PCB ASSY .....                 | GATHER PCB ASSY, MAIN (Refer to page 15) |
| 2-30     | * 9260383900 | SUPPORTING FOOT, FF023               |                                          |
| 2-31     | * 9260381301 | PANEL, FRONT                         |                                          |
| 2-32     | * 9260124200 | PCB SUPPORT                          |                                          |
| 2-33     | * 9260369900 | PCB SUPPORT, L=24                    |                                          |
| 2-34     | * 9260390700 | SPACER SUPPORT, KGPS-18S             |                                          |
| 2-35     | * 9260390000 | SNAP RIVET, SR3-3.5                  |                                          |
| 2-36     | * 9260357400 | PUSH RIVET, P2032                    |                                          |
| 2-37     | * 9260393200 | SHEET FPC(B)                         |                                          |
| 2-38     | * 9260393300 | SHEET FPC(C)                         |                                          |
| 2-39     | * 9260393100 | SHEET FPC(A)                         |                                          |
| 2-40     | 9144526210   | RCA PLUG SHORT                       |                                          |

**EXPLODED VIEW-2**

| REF. NO. | PARTS NO.    | DESCRIPTION                | REMARKS |
|----------|--------------|----------------------------|---------|
| 2-41     | * 9260260000 | PVC WASHER                 |         |
| 2-42     | * 9781801200 | NUT, M12                   |         |
| 2-43     | * 9783613008 | SCREW, BTT-P M3X8 (BLK)    |         |
| 2-44     | * 9783243006 | SCREW, BTT-B M3X6 (BLK)    |         |
| 2-45     | * 9783242608 | SCREW, BTT-B M2. 6X8 (BLK) |         |
| 2-46     | * 9783213008 | SCREW, BTT-B M3X8          |         |
| 2-47     | * 9783203006 | SCREW, BTT-S M3X6          |         |
| 2-48     | * 5800404400 | SCREW, SHOULDER B          |         |
| 2-49     | * 9783233015 | SCREW, BTT-S M3X15 (BLK)   |         |
| 2-50     | * 9783243008 | SCREW, BTT-B M3X8 (BLK)    |         |
| 2-51     | * 9260393400 | PLATE, SHIELD              |         |
| 2-52     | * 9260391400 | SHEET, MINI JACK           |         |

# 5. PC BOARDS AND PARTS LIST

基板図とパーツリスト

## GATHER PCB ASSY, MAIN

| REF. NO.  | PARTS NO.    | DESCRIPTION                                      |
|-----------|--------------|--------------------------------------------------|
|           | * 9145366000 | GAHTER PCB ASSY, MAIN<br>PCB, MAIN<br>PCB, PHONE |
|           | 9229088000   | EARTH PLATE B GND-8                              |
| CN45      | 9144526700   | CONNECTOR, 20FMN-BTRK                            |
| CN141     | 9144526800   | CONNECTOR, 30FMN-BTRK                            |
| CN161     | 9144526800   | CONNECTOR, 30FMN-BTRK                            |
| CN162     | 9144526700   | CONNECTOR, 20FMN-BTRK                            |
|           |              |                                                  |
| CN203     | 9143238020   | PLUG, B10B-PH-K 10P (RED)                        |
| CN204     | 9143237040   | PLUG, 9P B9B-PH-K (YEL)                          |
| CN309     | 9143237000   | PLUG, 9P B9B-PH-K                                |
| CN901     | 9143233000   | PLUG, 5P B5P-PH-K                                |
| CN902     | 9143232000   | PLUG, B4B-PH 4P                                  |
|           |              |                                                  |
| D101-103  | 9165029430   | DIODE, RB706D-40                                 |
| D104      | 9165028730   | DIODE, 1SS400 TE61 (0603)                        |
| D201, 202 | 9165029430   | DIODE, RB706D-40                                 |
| D203, 303 | 9165029430   | DIODE, RB706D-40                                 |
| D204, 206 | 9165028330   | Z, DIODE UDZ 4.7B                                |
|           |              |                                                  |
| D301, 302 | 9165029430   | DIODE, RB706D-40                                 |
| D304, 306 | 9165028330   | Z, DIODE UDZ 4.7B                                |
| D501-503  | 9165028730   | DIODE, 1SS400 TE61 (0603)                        |
| D504-506  | 9165028730   | DIODE, 1SS400 TE61 (0603)                        |
| D601, 602 | 9165028730   | DIODE, 1SS400 TE61 (0603)                        |
|           |              |                                                  |
| D701, 702 | 9165029430   | DIODE, RB706D-40                                 |
| D703, 803 | 9165029430   | DIODE, RB706D-40                                 |
| D704, 706 | 9165028330   | Z, DIODE UDZ 4.7B                                |
| D801, 802 | 9165029430   | DIODE, RB706D-40                                 |
| D804, 806 | 9165028330   | Z, DIODE UDZ 4.7B                                |
|           |              |                                                  |
| J101      | 9144525500   | MIC JACK NC3FAH1 (XLR)                           |
| J201      | 9144525700   | RCA JACK, WSP-244V1-01                           |
| J301      | 9144525700   | RCA JACK, WSP-244V1-01                           |
| J401      | 9144525800   | RCA JACK, WSP-252V2-31                           |
| J501      | 9144525700   | RCA JACK, WSP-244V1-01                           |
|           |              |                                                  |
| J701      | 9144525700   | RCA JACK, WSP-244V1-01                           |
| J801      | 9144525700   | RCA JACK, WSP-244V1-01                           |
| J901      | 9143491001   | JACK, 064M WITH EARTH METAL                      |
| J904      | 9107147500   | WIRE ASSY, WA18 3P                               |
| L101, 102 | * 9122021430 | COIL, 10UHLQH3N100K34 CHIP                       |
|           |              |                                                  |
| L401, 402 | * 9122022630 | COIL, 47UH LQH3N470K34 CHIP                      |
| L501-504  | 9113200230   | R, CHIP 0.0 (F) 0603                             |
| Q101-103  | 9163204430   | TR, 2SC2412K CHIP                                |
| Q104      | 9163204330   | TR, 2SA1037AKR                                   |
| Q201      | 9163202330   | TR, 2SA1037AKR                                   |
|           |              |                                                  |
| Q202      | 9163204430   | TR 2SC2412K CHIP                                 |
| Q301      | 9163202330   | TR, 2SA1037AKR                                   |
| Q302      | 9163204430   | TR 2SC2412K CHIP                                 |
| Q401, 403 | 9163204430   | TR 2SC2412K CHIP                                 |
| Q402      | 9163015030   | DTR, DTA114EKA T146                              |
|           |              |                                                  |
| Q404, 405 | 9163202530   | DTR, DTC144EKA T146                              |
| Q501-504  | 9163204430   | TR, 2SC2412K CHIP                                |
| Q509, 510 | 9163204430   | TR, 2SC2412K CHIP                                |
| Q511-513  | 9163015030   | DTR, DTA114EKA T146                              |
| Q514      | 9163202530   | DTR, DTC144EKA T146                              |

## GATHER PCB ASSY, MAIN

| REF. NO.  | PARTS NO.  | DESCRIPTION              |
|-----------|------------|--------------------------|
| Q701      | 9163020330 | TR, 2SA1037AKR           |
| Q702      | 9163204430 | TR, 2SC2412K CHIP        |
| Q801      | 9163020330 | TR, 2SA1037AKR           |
| Q802      | 9163204430 | TR, 2SC2412K CHIP        |
| Q901-905  | 9163204430 | TR, 2SC2412K CHIP        |
|           |            |                          |
| Q906, 912 | 9163020330 | TR, 2SA1037AKR           |
| Q907-911  | 9163204430 | TR, 2SC2412K CHIP        |
| Q913, 915 | 9163611530 | TR, 2SD2150R             |
| Q914, 916 | 9163611730 | TR, 2SB1424R             |
| Q917      | 9163015030 | DTR, DTA114EKA T146      |
|           |            |                          |
| Q918, 919 | 9163611530 | TR, 2SD2150R             |
| SW501     | 9135042800 | SLIDE SW, SSSF122NA4     |
| U101      | 9167061730 | IC, NJM4580M             |
| U102, 103 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U104      | 9167064530 | IC, AK5383VS-E2          |
|           |            |                          |
| U105      | 9167077200 | IC, PST600C              |
| U106      | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U107      | 9167032900 | IC, TC74HC04AF (14P)     |
| U108      | 9167079430 | IC, BU4SU69 (5P)         |
| U201, 202 | 9167061730 | IC, NJM4580M             |
|           |            |                          |
| U203-205  | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U206      | 9167077300 | IC, M5283P               |
| U207-210  | 9167033030 | IC NJM 4558M-TE3 (8P)    |
| U211      | 9167064530 | IC, AK5383VS-E2          |
| U212      | 9167033030 | IC, NJM4558M-TE3 (8P)    |
|           |            |                          |
| U301, 302 | 9167061730 | IC, NJM4580M             |
| U303-305  | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U306      | 9167077300 | IC, M5283P               |
| U307-310  | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U311      | 9167064530 | IC, AK5383VS-E2          |
|           |            |                          |
| U312      | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U401, 404 | S0036964   | IC, LC89051V             |
| U402, 405 | 9167052730 | IC, AK4393 (28P)         |
| U403, 406 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U501, 502 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
|           |            |                          |
| U503, 506 | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U504, 508 | 9167076830 | IC, NJU201AM-TE2 (16P)   |
| U505      | 9167077300 | IC, M5283P               |
| U507, 509 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U510, 511 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
|           |            |                          |
| U512      | 9167079430 | IC, BU4SU69 (5P)         |
| U513, 515 | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U514, 516 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U601, 602 | 9167052730 | IC, AK4393 (28P)         |
| U603, 604 | 9167033030 | IC, NJM4558M-TE3 (8P)    |
|           |            |                          |
| U605      | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U701, 702 | 9167061730 | IC, NJM4580M             |
| U703-705  | 9167043430 | IC, TC74HC4053 AFN (16P) |
| U706      | 9167077300 | IC, M5283P               |
| U707-710  | 9167033030 | IC, NJM4558M-TE3 (8P)    |
|           |            |                          |
| U711      | 9167064530 | IC, AK5383VS-E2          |
| U712      | 9167033030 | IC, NJM4558M-TE3 (8P)    |
| U801, 802 | 9167061730 | IC, NJM4580M             |



**GATHER PCB ASSY, MAIN**

| REF. NO. | PARTS NO.  | DESCRIPTION             |
|----------|------------|-------------------------|
| U803-805 | 9167043430 | IC, TC74HC4053 AFN(16P) |
| U806     | 9167077300 | IC, M5283P              |
| U807-810 | 9167033030 | IC, NJM4558M-TE3(8P)    |
| U811     | 9167064530 | IC, AK5383VS-E2         |
| U812     | 9167033030 | IC, NJM4558M-TE3(8P)    |
| U901     | 9167079230 | IC, NJM4556AM           |
| VR501    | 9172040700 | VR, RK09K12A0B4         |

**GATHER PCB ASSY, TOP**

| REF. NO.  | PARTS NO.    | DESCRIPTION                     |
|-----------|--------------|---------------------------------|
|           | * 9145365000 | GAHTER PCB ASSY, TOP<br>TOP PCB |
|           | 9260303300   | LED HOLDER 13.5MM               |
|           | 9260343200   | LED, HOLDER H=02                |
| CN14-17   | 9144524900   | CONNECTOR, 09R-JE               |
| CN28-31   | 9144524900   | CONNECTOR, 09R-JE               |
| CN35-38   | 9144525000   | CONNECTOR, 10FDZ-BT             |
| CN131     | 9144526700   | CONNECTOR, 20FMN-BTRK           |
| CN132     | 9144526600   | CONNECTOR, 14FMN-BTRK           |
| CN151     | 9144526800   | CONNECTOR, 30FMN-BTRK           |
| CN152     | 9144526700   | CONNECTOR, 20FMN-BTRK           |
| DG1-4     | 9174029100   | 7SEG LED, LB-202VB              |
| DS1-6     | 9174029300   | 15 DOT LED ARRAY                |
| D1-6      | 9165022150   | DIODE, TP 1SS133T               |
| D9-14     | 9165022150   | DIODE, TP 1SS133T               |
| D17-21    | 9165022150   | DIODE, TP 1SS133T               |
| D22       | 9165022150   | DIODE, TP 1SS133T               |
| D25-30    | 9165022150   | DIODE, TP 1SS133T               |
| D33, 34   | 9165022150   | DIODE, TP 1SS133T               |
| D41, 49   | 9165022150   | DIODE, TP 1SS133T               |
| D101-104  | 9165022150   | DIODE, TP 1SS133T               |
| D106-109  | 9165022150   | DIODE, TP 1SS133T               |
| J3        | 9107149801   | WIRE ASSY, WA19 3P              |
| LED1, 2   | 9174019300   | LED, SLR 342MG-3F               |
| LED3, 4   | 9174029200   | LED, SLR-342YY-T32 (YEL)        |
| LED5-7    | 9174019300   | LED, SLR 342MG-3F               |
| LED8-10   | 9174015900   | LED (AMBER), SLR-342DU-3F-M     |
| LED11, 13 | 9174015800   | LED (RED), SLR-342VR-3F         |

**GATHER PCB ASSY, TOP**

| REF. NO.   | PARTS NO.  | DESCRIPTION                 |
|------------|------------|-----------------------------|
| LED12, 14  | 9174015900 | LED (AMBER), SLR-342DU-3F-M |
| LED11-14   | 9260305500 | LED HOLDER 11.5MM           |
| LED15      | 9174019300 | LED, SLR 342MG-3F           |
| LED16-18   | 9174015900 | LED (AMBER), SLR-342DU-3F-M |
| LED19-22   | 9174019300 | LED, SLR 342MG-3F           |
| LED23, 24  | 9174029200 | LED, SLR-342YY-T32 (YEL)    |
| LED25, 26  | 9174019300 | LED, SLR 342MG-3F           |
| LED27-33   | 9174015900 | LED (AMBER), SLR-342DU-3F-M |
| LED34, 35  | 9174015800 | LED (RED), SLR-342VR-3F     |
| LED36, 38  | 9174015900 | LED (AMBER), SLR-342DU-3F-M |
| LED37 39   | 9174015800 | LED (RED), SLR-342VR-3F     |
| LED40, 42  | 9174015900 | LED (AMBER), SLR-342DU-3F-M |
| LED41      | 9174015800 | LED (RED), SLR-342VR-3F     |
| LED150     | 9174015800 | LED (RED), SLR-342VR-3F     |
| Q1         | 9163020530 | DTR, DTC144EKA T146         |
| Q17, 18    | 9163611730 | TR, 2SB1424R                |
| Q19, 20    | 9163611630 | TR, DTC143EKA               |
| RE1, 2     | 9172041100 | ENCODER, EC12E24408F35      |
| SW1-6      | 9136002620 | SKQNAE TACT SW              |
| SW9-14     | 9136002620 | SKQNAE TACT SW              |
| SW17-21    | 9136002620 | SKQNAE TACT SW              |
| SW22       | 9136002620 | SKQNAE TACT SW              |
| SW25-30    | 9136002620 | SKQNAE TACT SW              |
| SW33, 34   | 9135041900 | LEVER SW, LBC22B-17K        |
| SW41, 49   | 9135041900 | LEVER SW, LBC22B-17K        |
| SW57, 58   | 9135042000 | LEVER SW, LBC23M-17K        |
| SW60-63    | 9135042100 | ROTARY SW, SRBV181000       |
| SW101, 102 | 9135042200 | ROTARY SW, SRBV141400       |
| U1, 2      | 9167077930 | IC, TD62302F                |
| U5-7       | 9167078030 | IC, BU4051BCF               |
| U9-14      | 9167078130 | IC, BU2114F                 |
| U15        | 9167061730 | IC, NJM4580M                |
| U16        | 9167068930 | IC, BA033FP                 |
| U17        | 9167033030 | IC, NJM4558M-TE3(8P)        |
| VR5        | 9172040300 | VR, 100KB RK14K124007S      |
| VR25-29    | 9172040800 | VR, RD14K12D0209            |
| VR30       | 9172040600 | VR, RK10KMN RK14K1242F22.5  |
| VR31       | 9172040800 | VR, RD14K12D0209            |
| VR36       | 9172040400 | VR, 10K A RK14K12D22.5A     |
| VR37       | 9172040300 | VR, 100KB RK14K124007S      |

**GATHER PCB ASSY, DSP**

| REF. NO.  | PARTS NO.    | DESCRIPTION                     |
|-----------|--------------|---------------------------------|
|           | * 9145367000 | GAHTER PCB ASSY, DSP<br>DSP PCB |
| CN305     | * 9143238000 | PLUG, B10B-PH-K 10P             |
| CN306     | * 9143237000 | PLUG, 9P B9B-PH-K               |
| CN307     | * 9143242000 | PLUG, 14P B14B-PH-K             |
| CN331     | 9144526700   | CONNECTOR, 20FMN-BTRK           |
| CN332     | 9144526600   | CONNECTOR, 14FMN-BTRK           |
| CN341     | 9144526800   | CONNECTOR, 30FMN-BTRK           |
| CN351     | 9144526800   | CONNECTOR, 30FMN-BTRK           |
| CN352     | 9144526700   | CONNECTOR, 20FMN-BTRK           |
| CN361     | 9144526800   | CONNECTOR, 30FMN-BTRK           |
| CN362     | 9144526700   | CONNECTOR, 20FMN-BTRK           |
| CN701     | * 9143238020 | PLUG, B10B-PH-K 10P (RED)       |
| CN702     | * 9143237040 | PLUG, 9P B9B-PH-K (YEL)         |
| CN703     | 9144526100   | HEADER, BS20T-SHF-1AA           |
| CN704     | * 9143235000 | PLUG, B7B-PH 7P                 |
| D301-303  | 9165030330   | DIODE, DA204K                   |
| D304      | 9165026250   | DIODE, 21DQ04                   |
| D701-704  | 9165029430   | DIODE, RB706D-40                |
| D705, 706 | 9165029330   | DIODE, DAP202K (3P)             |
| D713      | 9165029330   | DIODE, DAP202K (3P)             |
| D714-717  | 9165028330   | Z, DIODE UDZ 4.7B               |
| J701-704  | 9144504000   | PHONE JACK, CPJ-064M-3          |
| J705, 706 | 9144503000   | PHONE JACK, CPJ-064M-2          |
| J707, 708 | 9144000200   | MIC JACK, NC3MBH (XLR)          |
| J709      | 9144525200   | JACK, HTJ-032-09B0 (ORG)        |
| J709      | * 9260392000 | PLATE, SHIELD (1P)              |
| J710, 711 | 9144525100   | JACK, HSJ1002-01-1020           |
| L301, 302 | * 9122022530 | COIL, 3216 10UH                 |
| L303      | 9111171030   | R, CHIP 0 (1/4W) 1206           |
| L701-708  | 9113200030   | R, CHIP 0 0603                  |
| Q301, 335 | 9163020430   | TR, 2SC2411KR                   |
| Q302, 334 | 9163020230   | TR, 2SA1036KQ                   |
| Q303      | 9163020230   | TR, 2SA1036KQ                   |
| Q304-306  | 9163020530   | DTR, DTC144EKA T146             |
| Q316, 318 | 9163611630   | TR, DTC143EKA                   |
| Q317, 319 | 9163611730   | TR, 2SB1424R                    |
| Q320, 322 | 9163611630   | TR, DTC143EKA                   |
| Q321, 323 | 9163611730   | TR, 2SB1424R                    |

**GATHER PCB ASSY, DSP**

| REF. NO.  | PARTS NO.    | DESCRIPTION                |
|-----------|--------------|----------------------------|
| Q324, 326 | 9163611630   | TR, DTC143EKA              |
| Q325, 327 | 9163611730   | TR, 2SB1424R               |
| Q328, 330 | 9163611630   | TR, DTC143EKA              |
| Q329, 331 | 9163611730   | TR, 2SB1424R               |
| Q332      | 9163611630   | TR, DTC143EKA              |
| Q336, 337 | 9163611630   | TR, DTC143EKA              |
| Q701, 707 | 9163020230   | TR, 2SA1036KQ              |
| Q702, 708 | 9163204430   | TR 2SC2412K CHIP           |
| Q703-706  | 9163611530   | TR, 2SD2150R               |
| RA301-313 | 9111307130   | R, ARRAY 10K*4 8P4R YC-16J |
| T301      | 9173021700   | PLUS TRANS, TC-5226-60     |
| U301, 302 | S0044683     | IC, XCB56362PV100          |
| U303      | 9167078730   | IC, M30802SGP              |
| U304      | 9167078830   | IC, TC74AC00F              |
| U305      | 9167029430   | IC, TC74HC00AF (EL)        |
| U306, 314 | 9167078930   | IC, GM71VS18163CLT-6       |
| U307      | 9167079030   | IC, ADS7842E               |
| U308      | 9167077200   | IC, PST600C                |
| U309      | 9167029430   | IC, TC74HC00AF (EL)        |
| U310-312  | 9167049530   | IC, HD74HC163FPEL          |
| U313      | 9167041630   | IC, TC74VHC04F (14P)       |
| U315      | 9167079030   | IC, ADS7842E               |
| U316      | 9167071430   | IC, TC74HC4051AF           |
| U317, 318 | 9167048330   | IC, HD74HC4052FPEL         |
| U320      | 9167083800   | ROM, MAIN M27C2001-70XF1   |
| U320      | 9144518100   | IC SOCKET, 32P             |
| U321      | 9167058930   | IC, HN58C256AFP10Z         |
| U322, 703 | 9167079130   | IC, TC74HC4028AF           |
| U324-327  | 9167077500   | IC, TC74HC573AP            |
| U328      | 9167077600   | IC, ULN2803AP              |
| U701, 702 | 9167071430   | IC, TC74HC4051AF           |
| U704, 705 | 9167033030   | IC, NJM4558M-TE3 (8P)      |
| U706, 707 | 9167079230   | IC, NJM4556AM              |
| U708, 709 | 9167033030   | IC, NJM4558M-TE3 (8P)      |
| U710      | 9167077700   | IC, LM317T                 |
| U710      | * 9781800300 | NUT, M3                    |
| U710      | * 9783203008 | SCREW, BTT-S M3X8          |
| VR701     | 9172040700   | VR, RK09K12A0B4            |
| X301      | 9173020200   | XTAL, HC-49/S3 20.0MHZ     |
| Y301      | 9173021600   | XTAL, HC-49/S3 22.5792MHZ  |

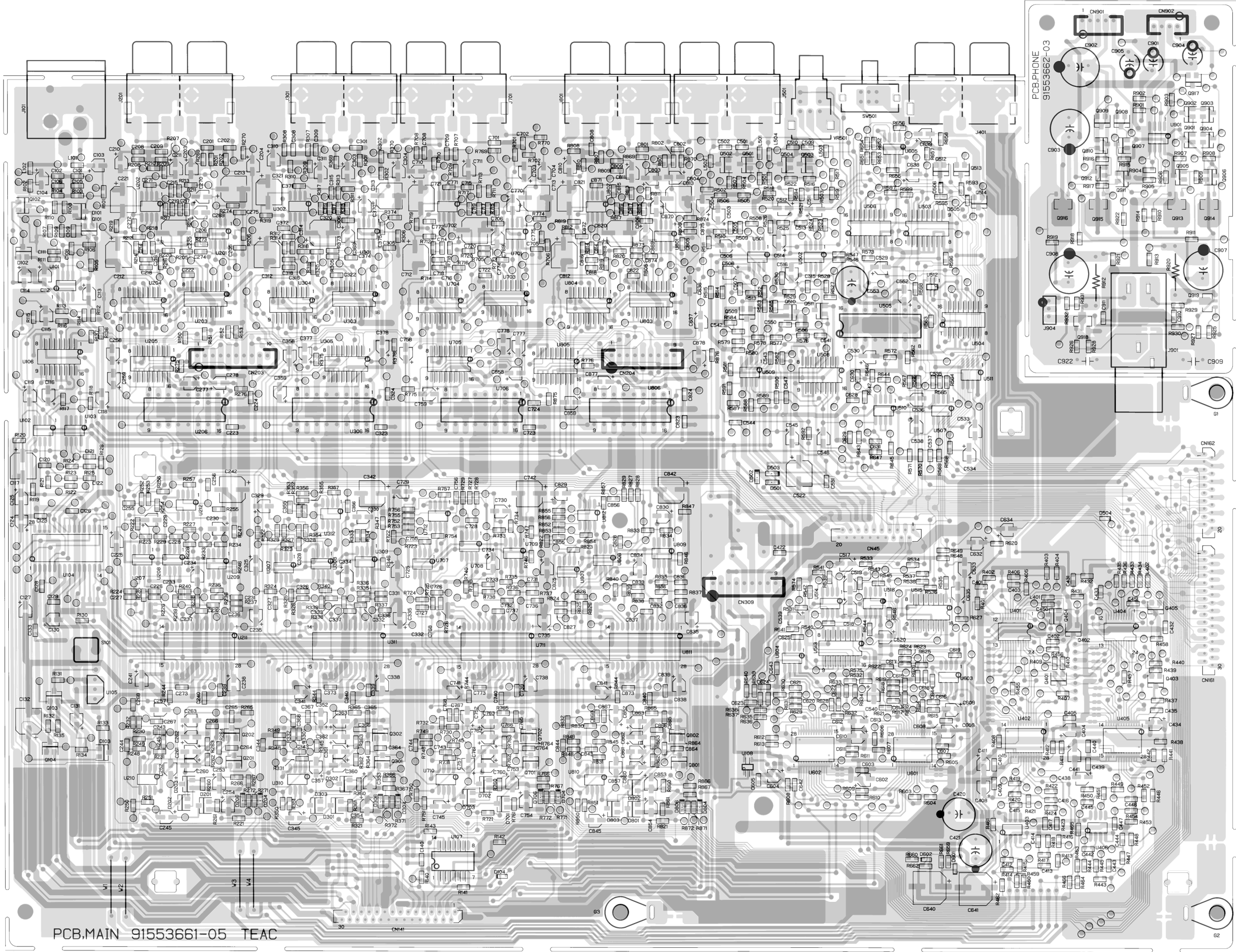
## GATHER A PCB ASSY

| REF. NO.  | PARTS NO.    | DESCRIPTION                                                                 |
|-----------|--------------|-----------------------------------------------------------------------------|
|           | * 9145368020 | GAHTER A PCB ASSY<br>[J, US/C]                                              |
|           | * 9145368040 | GAHTER A PCB ASSY<br>[K, A, E, UK]]                                         |
|           |              | PCB, POWER<br>PCB, POWER IC<br>PCB, POWER SW<br>PCB, CONNECTOR<br>PCB, JACK |
|           |              | PCB, CROSS FADER<br>PCB, EQ<br>PCB, ASSIGN-A<br>PCB, ASSIGN-B<br>PCB, VR    |
| C410-412  | 9150062100   | FUSE HOLDER, CQ-203B                                                        |
| CN1, 2    | △ 9120000101 | SPARK KILLER, 0.0047M 250V                                                  |
| CN3       | 9144526000   | CONNECTOR, 09PSL-JE                                                         |
| CN9       | * 9143238000 | PLUG, B10B-PH-K 10P                                                         |
|           | * 9143273000 | PLUG, 5P S05B-PH-K                                                          |
| CN14      | * 9143273000 | PLUG, 5P S05B-PH-K                                                          |
| CN403     | 9144491000   | CONNECTOR, B2P3-VH                                                          |
| CN804     | 9143231000   | PLUG, B3B-PH 3P                                                             |
| CN850     | 9144526430   | CONNECTOR, 20FMN-BMTTR-TB                                                   |
| CN851     | * 9143232000 | PLUG, B4B-PH 4P                                                             |
| CN852     | * 9143237000 | PLUG, 9P B9B-PH-K                                                           |
| CN853     | * 9143242000 | PLUG, 14P B14B-PH-K                                                         |
| CN854     | * 9143233000 | PLUG, 5P B5P-PH-K                                                           |
| CN901     | 9143171000   | CONNECTOR PLUG, B3B-EH 3P                                                   |
| CN902     | * 9143236020 | PLUG, B-8B-PH (RED)                                                         |
| CN903     | * 9143233000 | PLUG, 5P B5P-PH-K                                                           |
| CN904     | * 9143237000 | PLUG, 9P B9B-PH-K                                                           |
| CN906     | * 9143235000 | PLUG, B7B-PH 7P                                                             |
| CN907     | * 9143172000 | PLUG, 4P B4B-EH-A                                                           |
| CN909     | * 9143231000 | PLUG, B3B-PH 3P                                                             |
| D850-D862 | 9165022150   | DIODE, TP 1SS133T                                                           |
| D901      | △ 9165029200 | DIODE, D10XB20                                                              |
| D902-907  | △ 9165020550 | DIODE, LT 1N4003 TP 0.6MM                                                   |
| D908      | △ 9165022150 | DIODE, TP 1SS133T                                                           |
| D909-911  | △ 9165020550 | DIODE, LT 1N4003 TP 0.6MM                                                   |

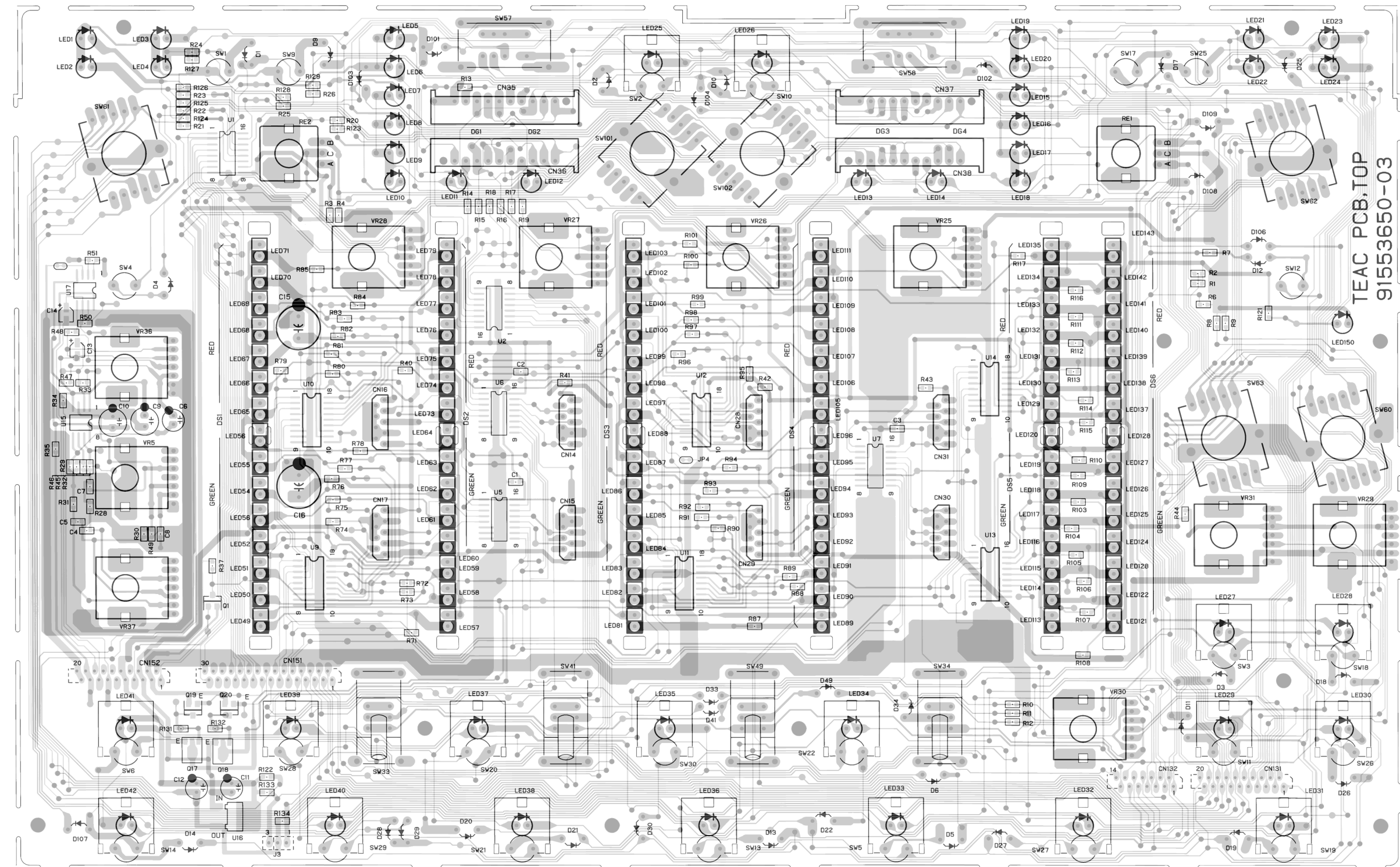
## GATHER A PCB ASSY

| REF. NO.    | PARTS NO.    | DESCRIPTION                             |
|-------------|--------------|-----------------------------------------|
| F901-903    | △ 9150029000 | FUSE, 2A 250V 50T 020H<br>[J, US/C]     |
| F901-903    | △ 9150030000 | FUSE, 2A 250V 51S 020H<br>[K, A, E, UK] |
| GND2        | 9229088000   | EARTH PLATE B, GND-8                    |
| J4          | 9107147301   | WIRE ASSY, WA16 3P                      |
| J5          | 9107147201   | WIRE ASSY, WA15 3P                      |
| J6          | 9107147101   | WIRE ASSY, WA14 3P                      |
| J7          | 9107147001   | WIRE ASSY, WA13 3P                      |
| J8          | 9107146901   | WIRE ASSY, WA12 3P                      |
| J401        | 9144177000   | PLUG, 5283-02A                          |
| J802        | 9143491001   | JACK, 064M WITH EARTH PLATE             |
| J850        | 9107146800   | WIRE ASSY, WA11 5P                      |
| J905        | 9107146700   | WIRE ASSY WA10 8P                       |
| LED850, 851 | 9174015800   | LED (RED), SLR-342VR-3F                 |
| LED850, 851 | 9260343200   | LED, HOLDER H=02                        |
| R901        | 9113072050   | R, R-16 TP JFT 1K                       |
| R902        | △ 9114526900 | R, NONFLAMMABLE 1/4W 2.2K               |
| R903        | △ 9114527000 | R, NONFLAMMABLE 3W 6.8                  |
| SW401       | △ 9135040500 | POWER SW, SDKLA10200                    |
| SW850       | 9135042600   | ROTARY SW, SRBV160800                   |
| SW851-853   | 9135041900   | LEVER SW, LBC22B-17K                    |
| SW854, 862  | 9136002620   | SKQNAE TACT SW                          |
| SW855, 856  | 9135042600   | ROTARY SW, SRBV160800                   |
| SW857-859   | 9135041900   | LEVER SW, LBC22B-17K                    |
| SW860, 861  | 9135042500   | SLIDE SW, SSSB022200                    |
| T402        | △ 9122020500 | AC LINE FILTER LFH-601U                 |
| U900        | △ 9167027600 | IC, M5F79M07L                           |
| U901, 902   | △ 9167042500 | IC, BA05T                               |
| U903        | △ 9167026700 | IC, NJM7812FA (3P)                      |
| U904        | △ 9167035800 | IC NJM7912FA (3P)                       |
| U905        | △ 9167014900 | IC, NJM7905FA (3P)                      |
| VR1-3       | 9172041300   | VR, 10KB*2, RD0972210053TK              |
| VR9         | 9172040900   | VR, RS4511S14 10KB                      |
| VR10        | 9172041000   | VR, RS45N1114 10KB                      |
| VR850, 851  | 9172040400   | VR, 10K A RD14K12D0009                  |
| VR852       | 9172040300   | VR, 100KB RD14K124A230                  |
| VR853       | 9172040800   | VR, RD14K12D0209                        |
| ZD901       | 9166053351   | Z, DIODE MTZJ 5.1B                      |
| ZD902       | 9166051650   | Z, DIODE MTZJ 3.9B                      |

GATHER PCB, MAIN (MAIN PCB, PHONE PCB)

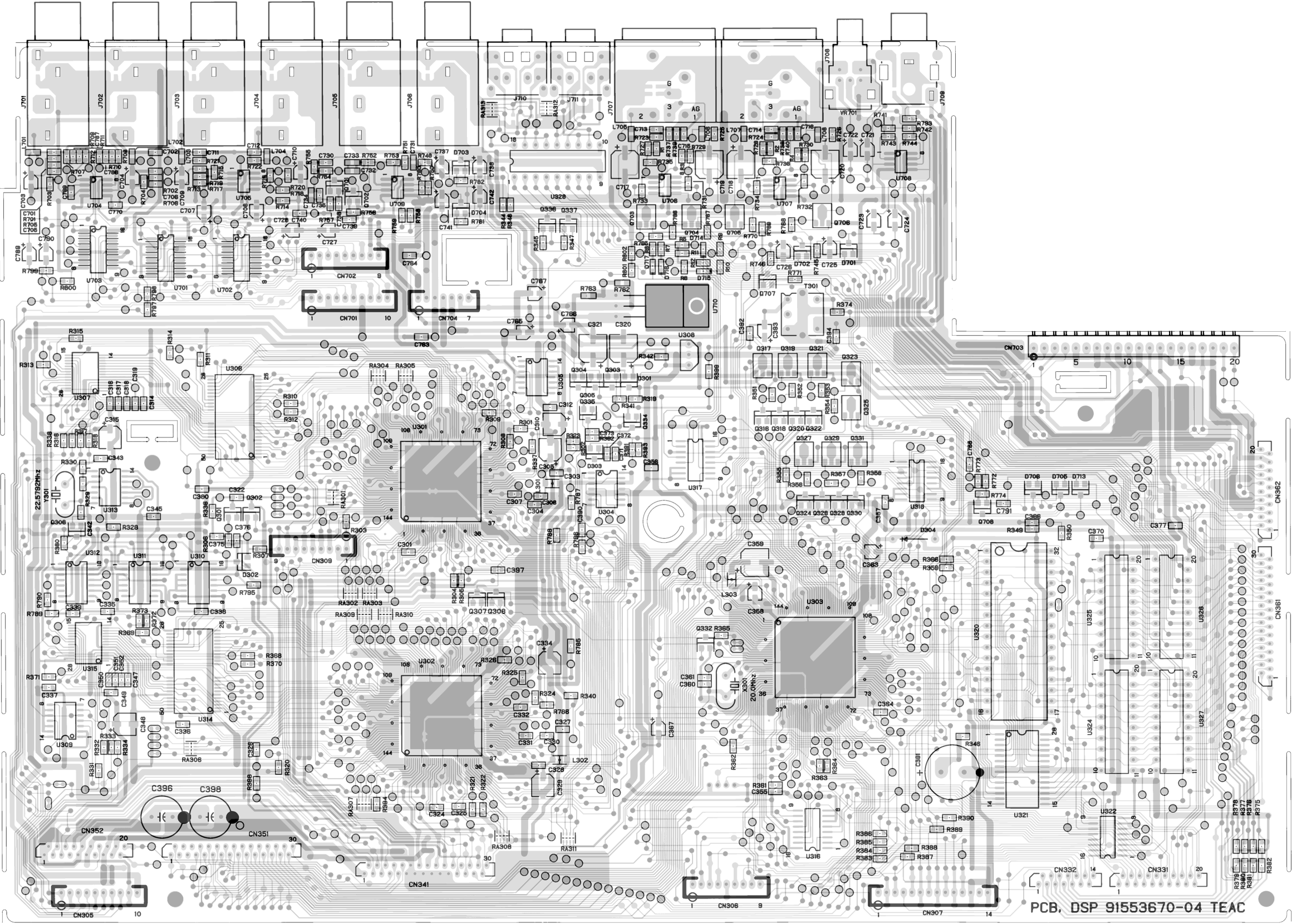


**TOP PCB**

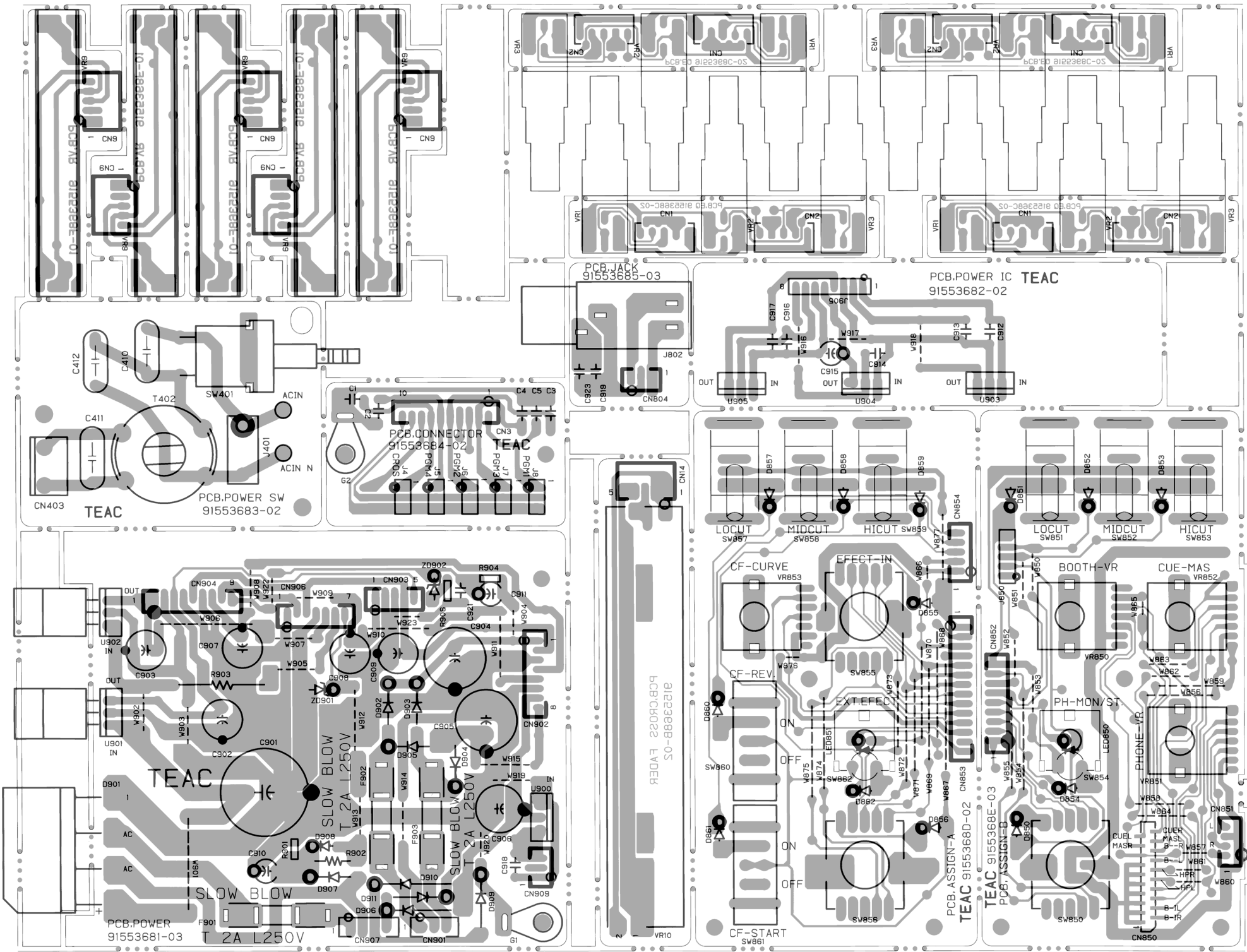




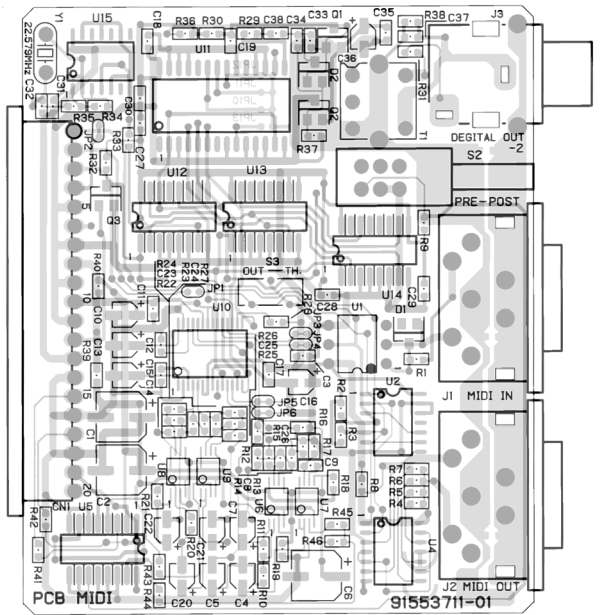
DSP PCB



GATHER A PCB (POWER PCB, POWER IC PCB, POWER SW PCB, CONNECTOR PCB, JACK PCB, CROSS FADER PCB, EQ PCB, ASSIGN-A PCB, ASSIGN-B PCB, VR PCB)



MIDI PCB (OPTION)



## 6. INCLUDED ACCESSORIES

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### INCLUDED ACCESSORIES

| REF. NO. | PARTS NO.    | DESCRIPTION                           | REMARKS |
|----------|--------------|---------------------------------------|---------|
|          | * 9101441801 | OWNER'S MANUAL, JAPANESE [J]          |         |
|          | * 9101441900 | OWNER'S MANUAL, ENGLISH [EXCEPT J]    |         |
|          | * 9101441700 | OWNER'S MANUAL, MULTI [E]             |         |
|          | * 9101444100 | QUICK START GUIDE, ENGLISH [EXCEPT J] |         |
|          | * 9101444200 | QUICK START GUIDE, FRENCH [E]         |         |
|          | * 9101444300 | QUICK START GUIDE, GERMAN [E]         |         |
|          | * 9101444400 | QUICK START GUIDE, ITALIAN [E]        |         |
|          | * 9101444500 | QUICK START GUIDE, SPANISH [E]        |         |
|          | * 9260391901 | GUARD, FAN                            |         |
|          | * 9783243008 | SCREW, BTT-B M3X8 (BLK)               |         |
|          | * 9215087700 | INSULATION SCREW ASSY                 |         |
|          | * 9260386701 | ANGLE, MOUNT (L)                      |         |
|          | * 9260386801 | ANGLE, MOUNT (R)                      |         |

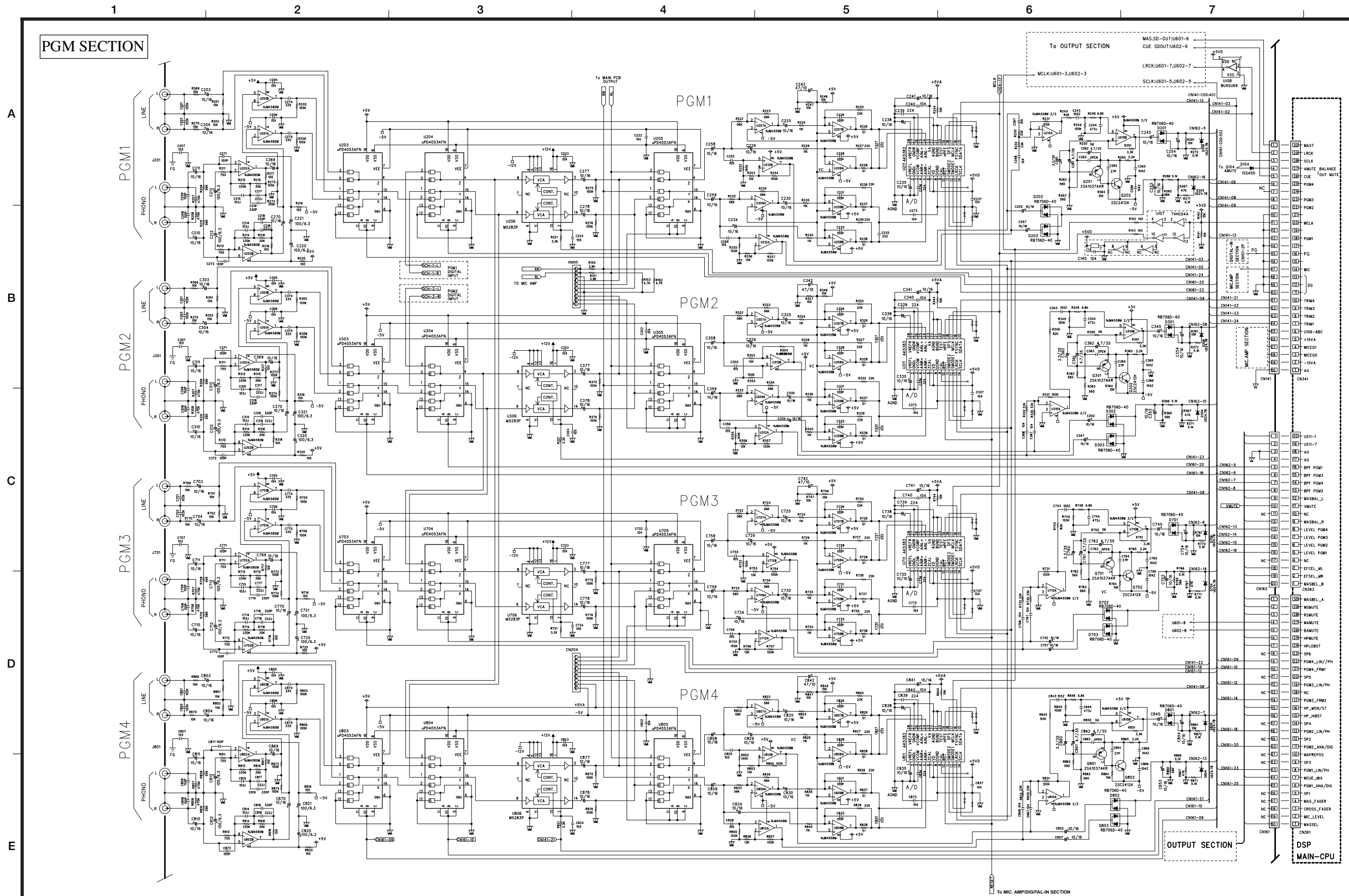


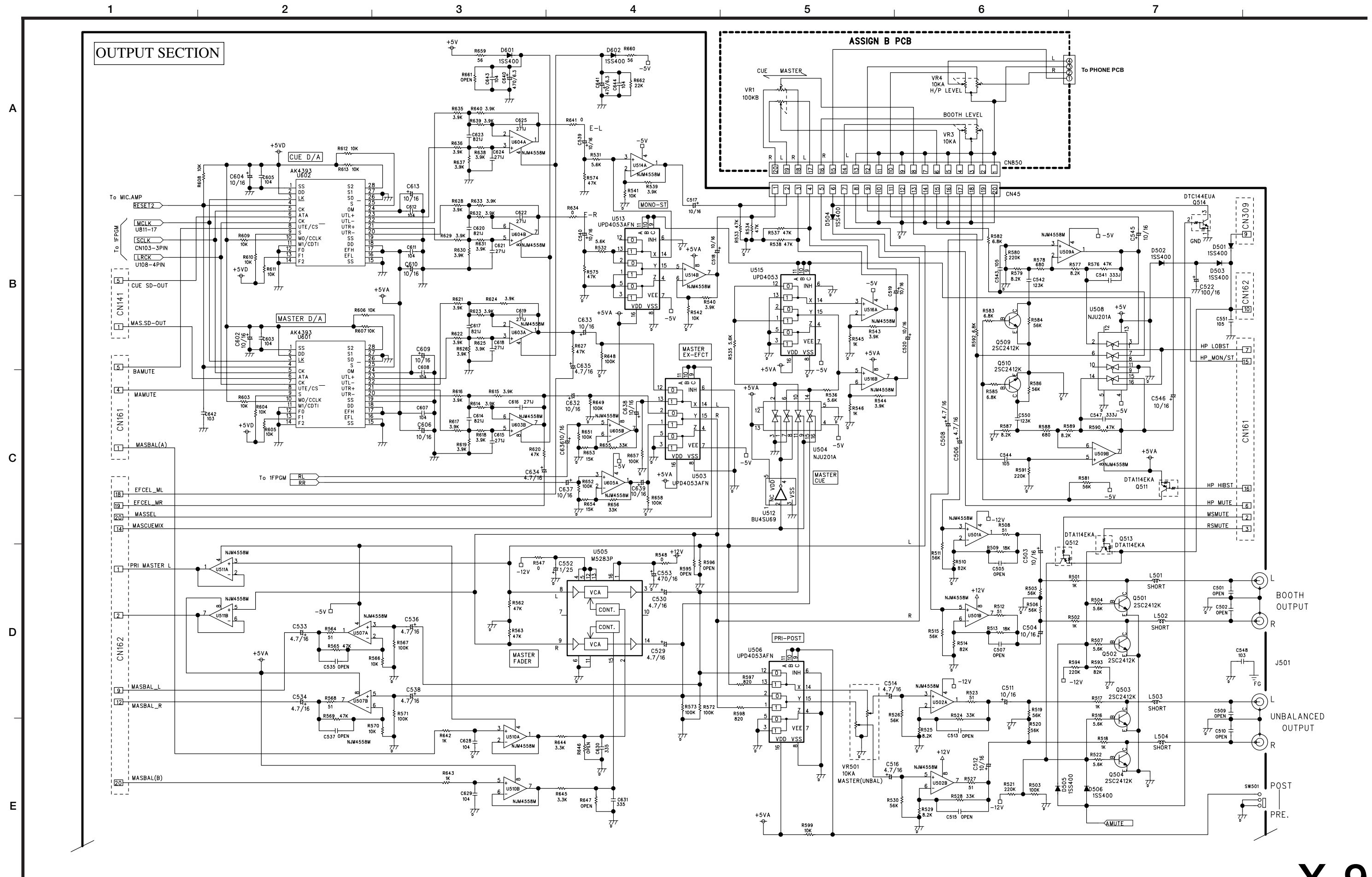
# SCHEMATIC DIAGRAMS

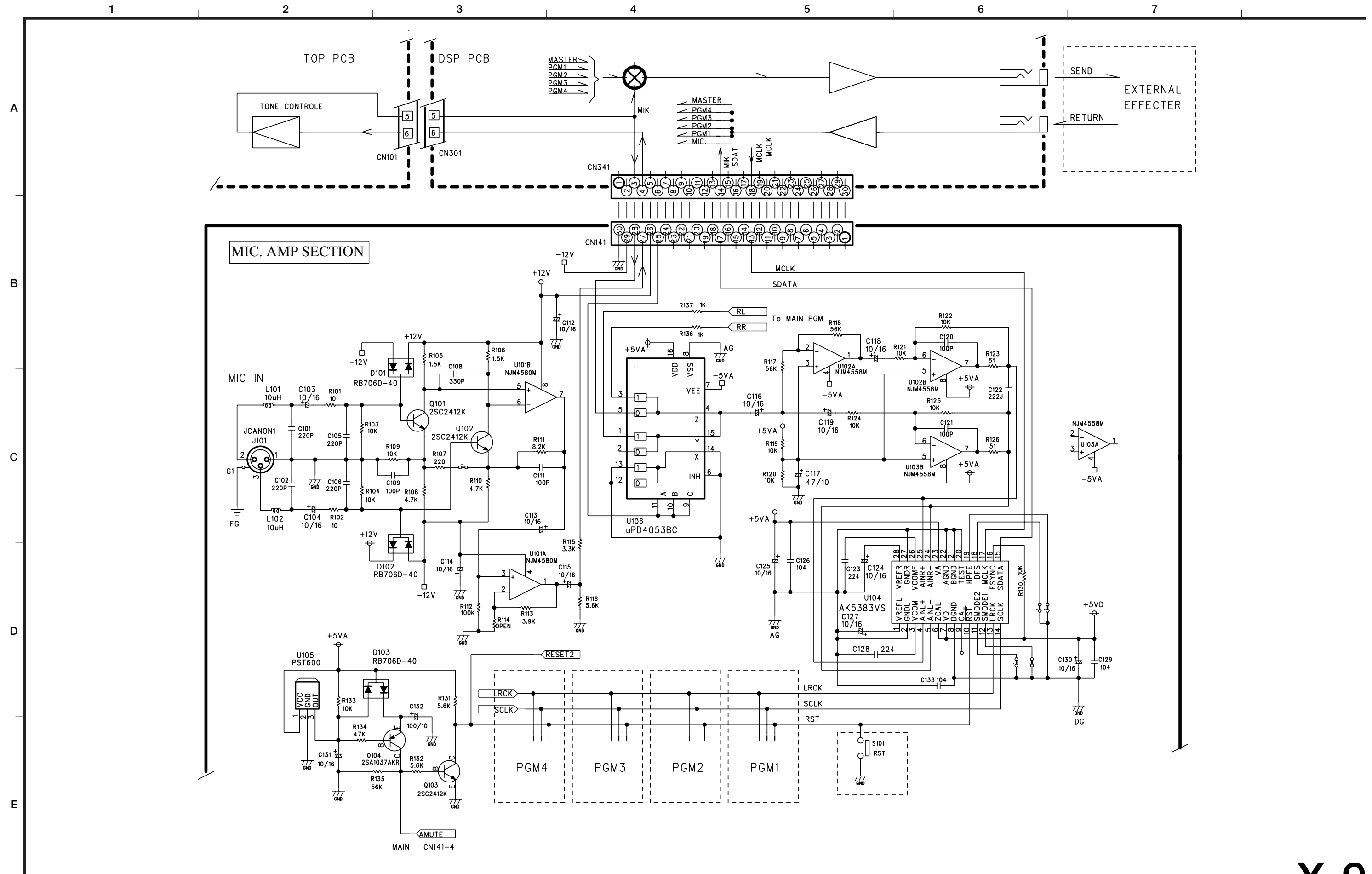
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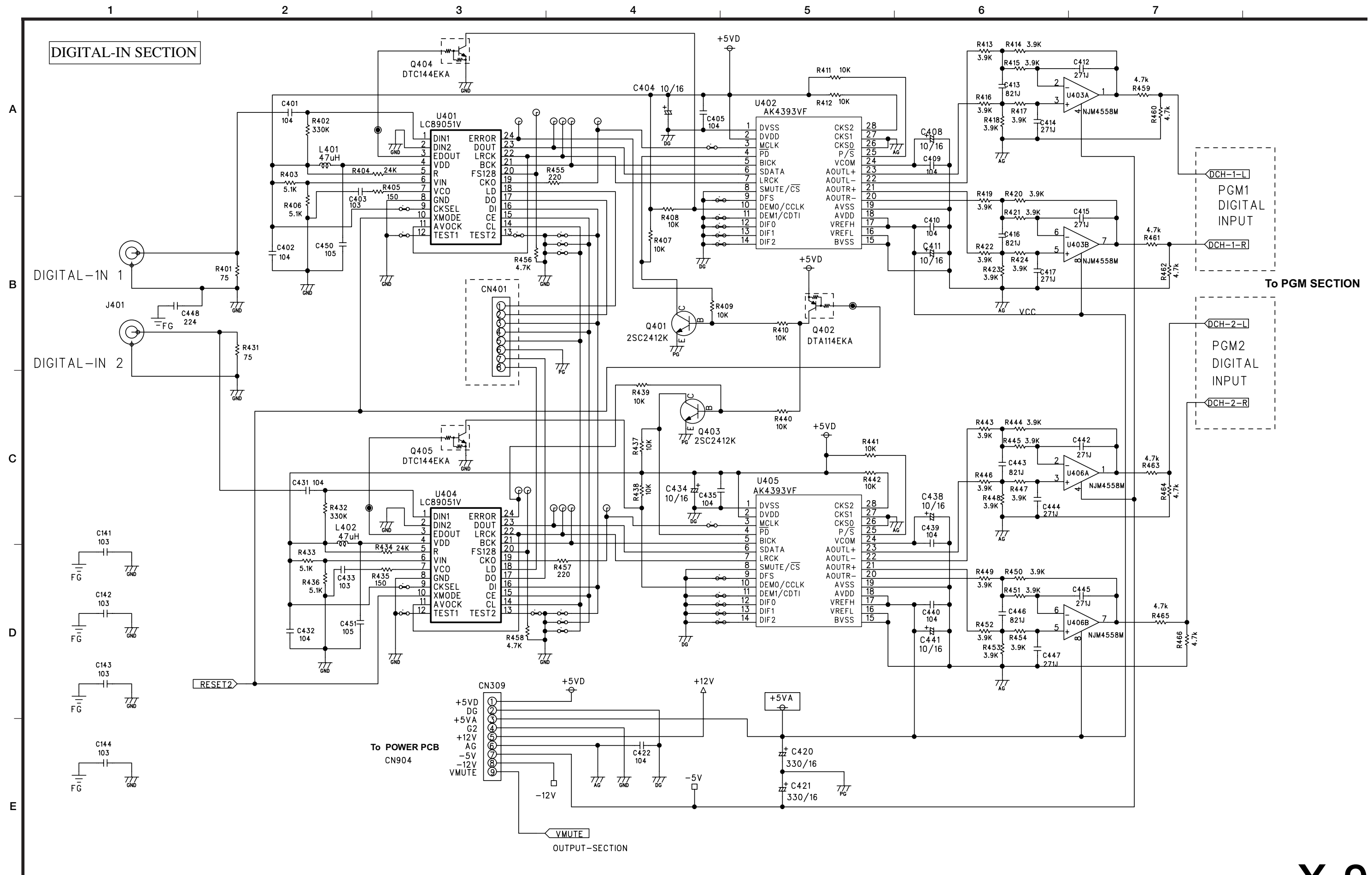
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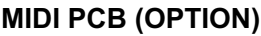












MASTER  
BALANCE  
OUT

EXT.EFFECTER

TOP PCB

## MAIN PCB

MIC.AMP SECTION

PGM1 SECTION

PGM2 SECTION

PGM3 SECTION

DCM4 SECTION

ANALOG  
SECTION

MAIN PCB



1

2

3

4

5

6

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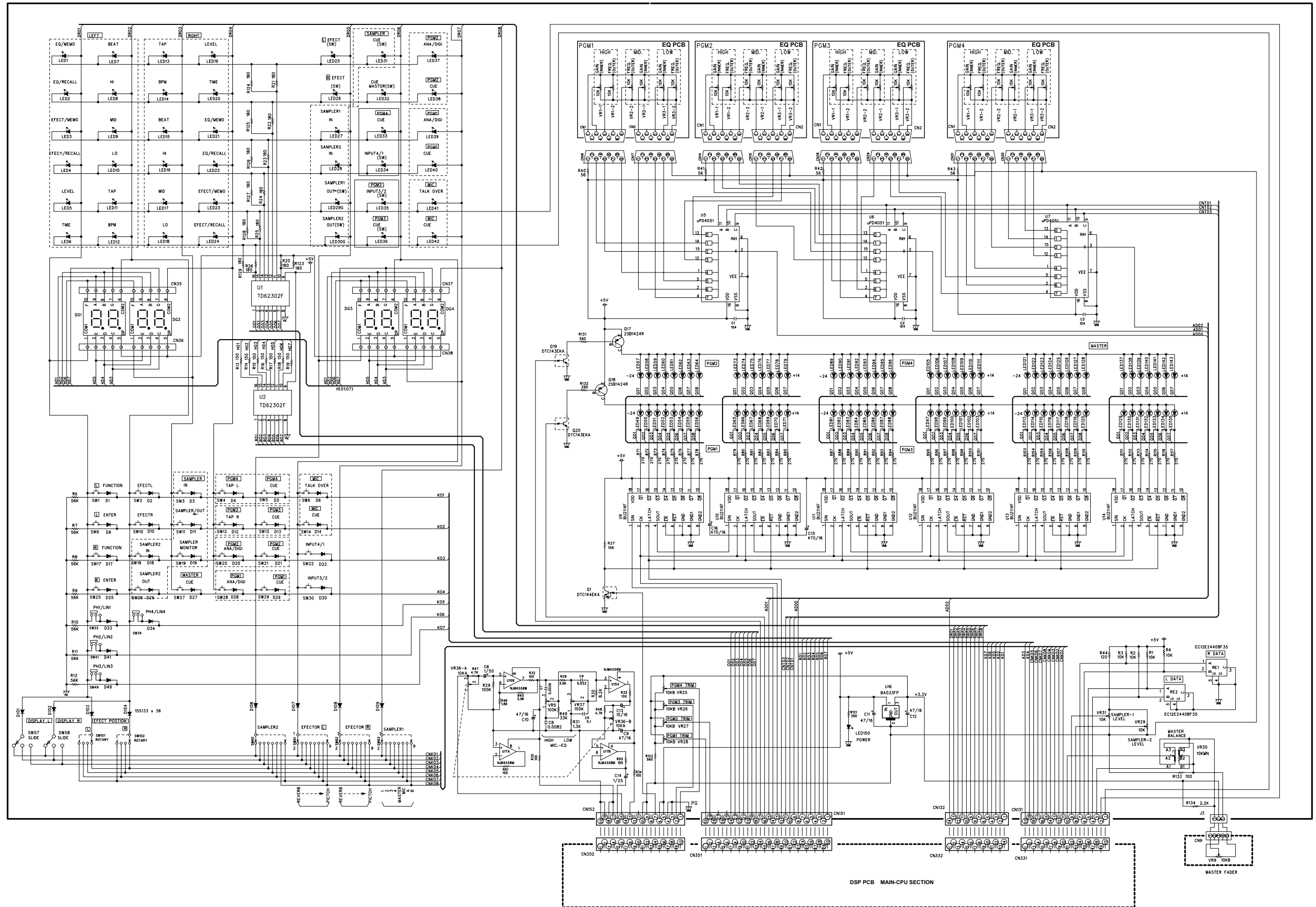
A

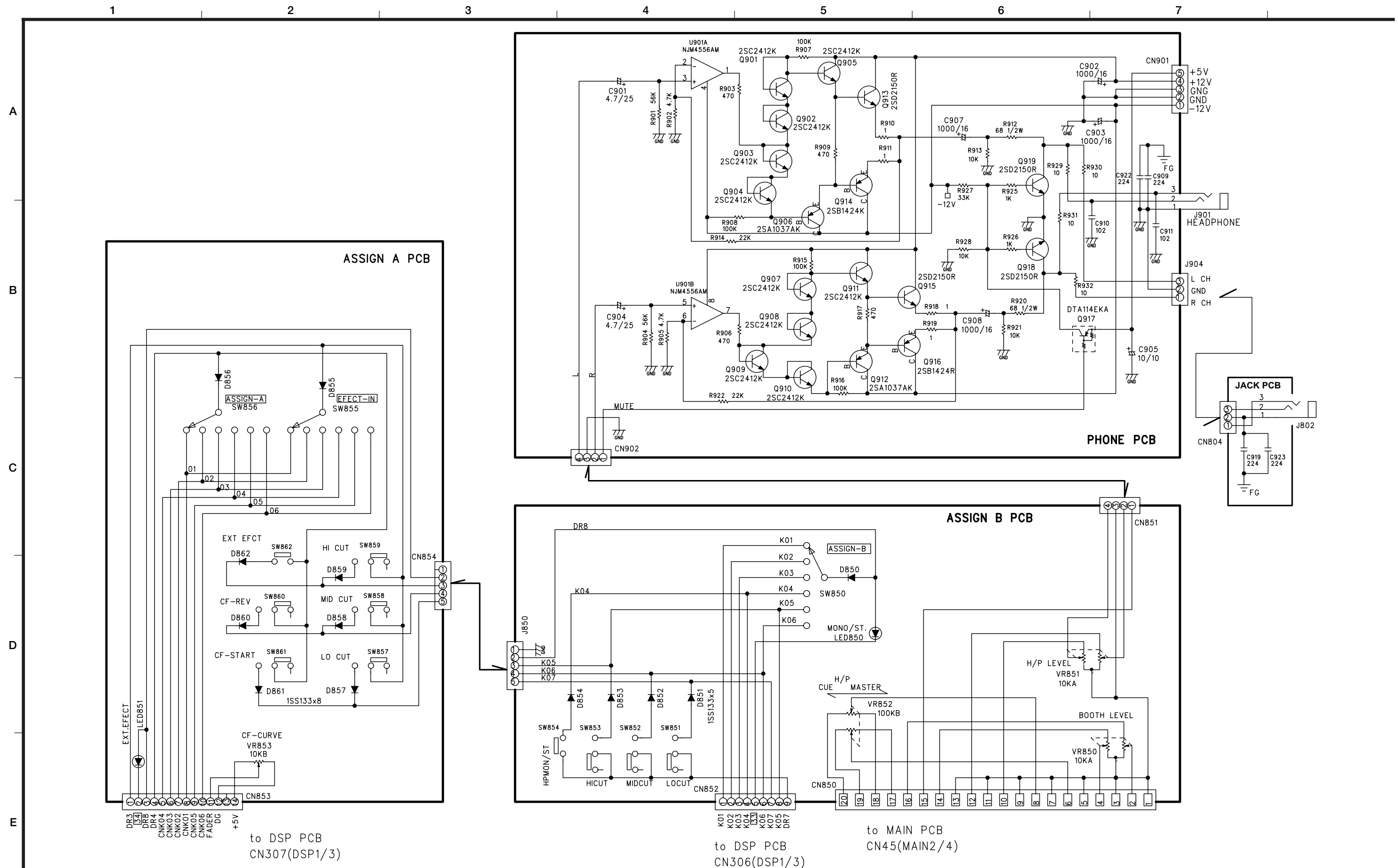
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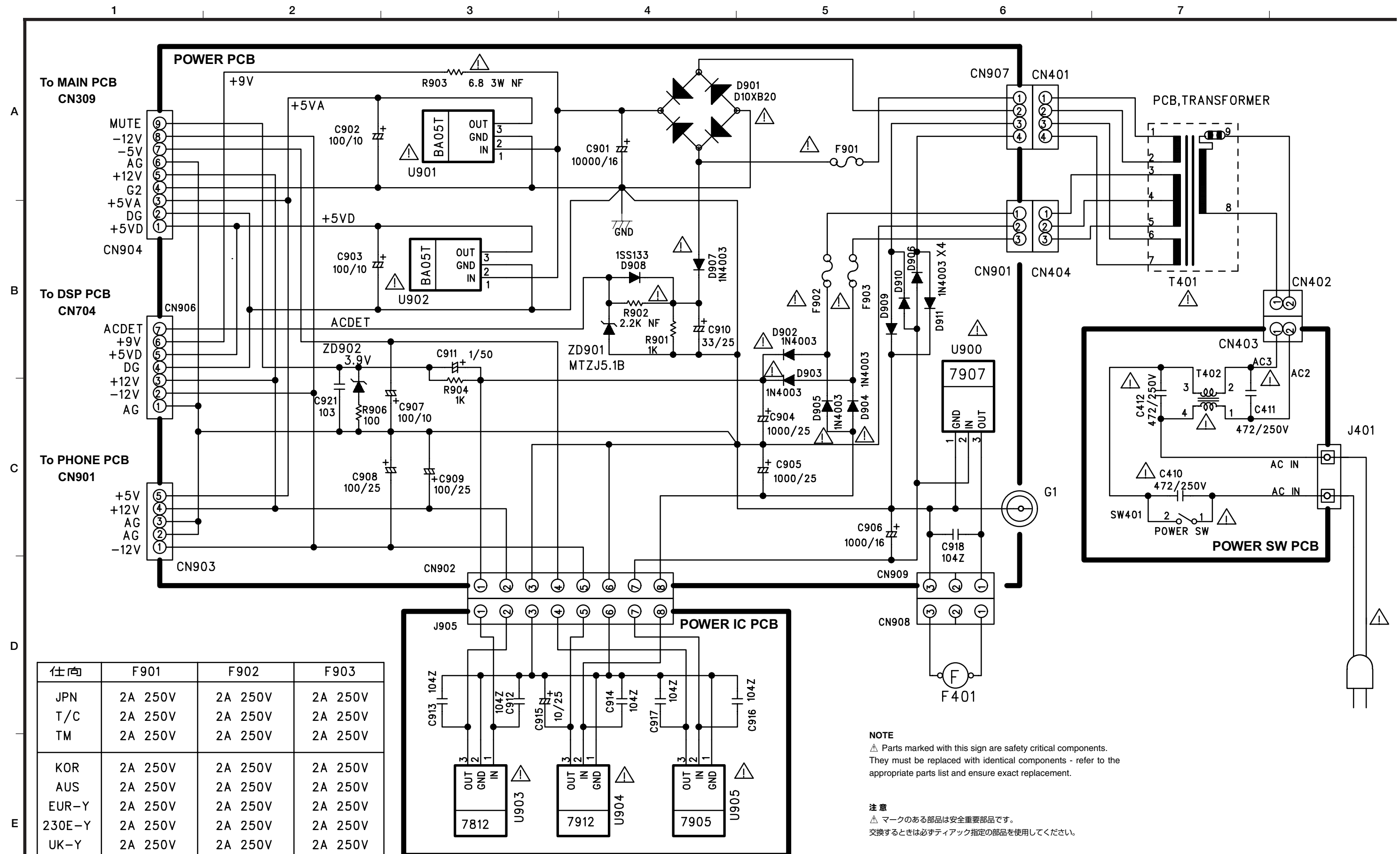
C

D

E









## TASCAM X-9, V1.11

To accommodate different styles of mixing there are now two modes that you can select for the X-9's digital EQ.

**FAST** (default setting) - This setting offers an immediate response reaction when the EQ is manipulated. This mode is best for “trick mixing” where an immediate EQ response time is beneficial to the DJ's performance.

**NORM** - This setting has the normal functionality when operating the EQ as described, in the manual. This mode is best for using the X-9 in a recording studio environment where easy access to EQ gain and frequency values is helpful.

There are two ways of making this change: either by using the menu system to make the change, or by using a “quick key” combination short-cut.

### Using the menu

1. Press the **Function** key.
2. Use; the **DATA** knob to select the new menu setting: 26 EQ.
3. Press the **ENTER** key.
4. Use the **DATA** knob to select either FA (fast) or nor (normal) setting.
5. Press the **ENTER** key.

### Using the “quick key” short-cut

1. Press and hold either of the **FUNCTION** keys and press and hold one of the **ENTER** keys.
2. While these keys are pressed, use the **MIC CUE** key and indicator to show and set the EQ setting mode.
3. When the **MIC CUE** is off, the fast EQ mode is enabled, and when it is on, the normal mode is enabled. Press the **MIC CUE** key to change between the modes.

### A few notes on the modes

- When the fast EQ mode is selected, the gain and frequency are not shown on the display when the EQ values are changed (in normal mode, this information is shown when the EQ is changed). However, when either the HI, LO or MID indicator is lit, the selected channel's gain and frequency are shown on the appropriate display, alternating every half second. Note that if the indicator of one band (HI, MID or LO) is lit, that band's frequency and gain are displayed, even if changes are made to the values of another band using the controls.
- If the effect is active, or if either the BPM or TAP indicator is lit, the alternating gain/frequency display is not shown.