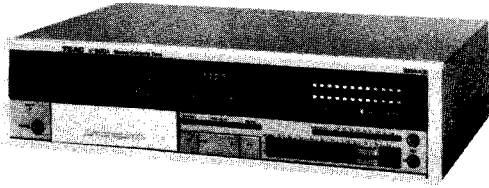


# TEAC®



## SERVICE MANUAL

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# V-500X/V-400X

Stereo Cassette Deck

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## 1 SPECIFICATIONS AND SERVICE DATA

### 仕様およびサービス・データ

#### Notes:

1. Improvements may result in changes in specifications and service data.
2. 0 dB is referenced to 0.775 V in this manual.

### SPECIFICATIONS

**Track System** 4-track, 2-channel stereo

**2 Heads** Erase, record/playback

**Type of Tape** Cassette tape, C-60 and C-90 (philips type)

**Tape Speed** 4.8 cm/s (1-7/8 ips)

**Input (level and impedance)**

**MIC:** Specified input level: -57 dB (1.09 mV)/10 kohms  
Min. input level: -67 dB (346  $\mu$ V)

**LINE IN:** Specified input level: -9 dB (275 mV)/50 kohms  
Min. input level: -19 dB (86.9 mV)

**Output (level and load impedance)**

**OUTPUT:** Spec. output level: -3 dB (548 mV)/50 kohms

**PHONES:** Spec. output level: -19 dB (86.9 mV)/8 ohms

**Equalization**

**METAL:** 3180  $\mu$ s + 70  $\mu$ s

**CrO<sub>2</sub>:** 3180  $\mu$ s + 70  $\mu$ s

**NORMAL:** 3180  $\mu$ s + 120  $\mu$ s

**Head Configuration**

1/2-track, 1-channel erase head

1/4-track, 2-channel record/playback head

**Motor** 1 DC servo motor

**Bias Frequency** 85 kHz  $\pm$ 5 kHz

**Operation position** Horizontal

**Power Requirements**

100/120/220/240 V AC, 50/60 Hz (General Export Model)

120 V AC, 60 Hz (U.S.A./Canada)

220 V AC, 50 Hz (Europe)

240 V AC, 50 Hz (U.K./Australia)

100 V AC, 50/60 Hz (JAPAN)

**Power Consumption**

20W (V-500X), 19W (V-400X)

**Weight** 5.4 kg (11-7/8 lbs.) net

#### 注:

1. 仕様およびサービス・データは改善のため予告なく変更することがあります。
2. 本マニュアルでは0dBは0.775Vを基準としています。

### SERVICE DATA

#### MECHANICAL

**Tape Speed Deviation** 3,000 Hz  $\pm$ 75 Hz

**Tape Speed Drift** 45 Hz

**Wow and Flutter**

Playback: 0.12% (WRMS)

Record/Playback: 0.30% (RMS)

**Pinch Roller Pressure** 250 g to 350 g (8.8 oz to 12.4 oz)

**Reel Torque**

Take-up: 40 to 65 g-cm (0.555 to 0.903 oz-inch)

Supply: 2 to 6 g-cm (0.0278 to 0.0833 oz-inch)

F.F.: 70 to 140 g-cm (0.97 to 1.94 oz-inch)

REW: 70 to 140 g-cm (0.97 to 1.94 oz-inch)

**Fast Wind Time**

95 sec. or less for MTT-501 (C-60)

**Auto End-stop Time** 5 sec. or less

#### ELECTRICAL

**Frequency Response**

See Figs. 5-5 to 5-7.

**Signal-to-noise Ratio**

Playback **NORMAL:** 48 dB min.

Record/Playback

**METAL, CrO<sub>2</sub>:** 47 dB min.

**NORMAL:** 46 dB min.

S/N is improved by 5 dB at 1 kHz and 10 dB above 5 kHz when Dolby NR\* (B-type) is used.

**Erase Efficiency** 65 dB min. at 1 kHz (measured with input 10 dB higher than the specified input level).

**Channel Separation** 35 dB min. at 1 kHz

**Adjacent Track Crosstalk** 60 dB min. at 125 Hz

**Total Harmonic Distortion** 2.0% or less with METAL, CrO<sub>2</sub>  
2.5% or less with NORMAL

- Dolby Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- dbx Noise Reduction system made under license from dbx Incorporated. The name "dbx" and the dbx symbol are trademarks of dbx Incorporated.

#### CAUTION

△ Parts marked with this sign are safety critical components. They must always be replaced with identical components — refer to the appropriate parts list and ensure exact replacement.

- \*ドルビー・ノイズ・リダクション・システムは、ドルビー・ラボラトリーズ・ライセンシング・コーポレーションからの実施権に基づいて製造されています。
- \*ドルビーおよび DD は、ドルビー・ラボラトリーズ・ライセンシング・コーポレーションの登録商標です。
- \*dbxおよびdbxマークは、dbxインコーポレーテッドの登録商標です。
- \*dbxシステムは、dbxインコーポレーテッドの実施権に基づいて製造されています。

#### 注意

△印は安全重要部品です。交換する場合は必ずティアックの指定部品を使用してください。

## 2 CASE AND FRONT PANEL REMOVAL

外装部品のはずし方

Disassemble in number-order

番号順にはずしてください。

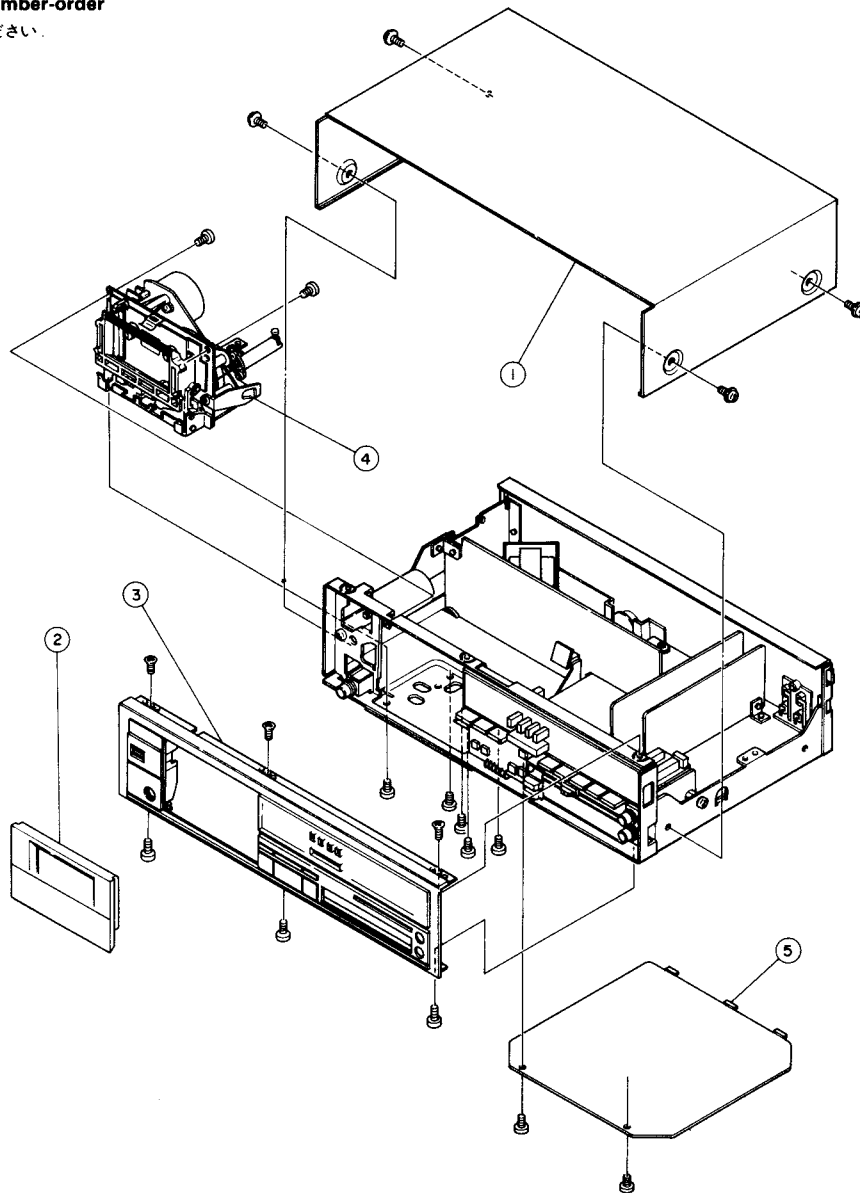


Fig. 2-1

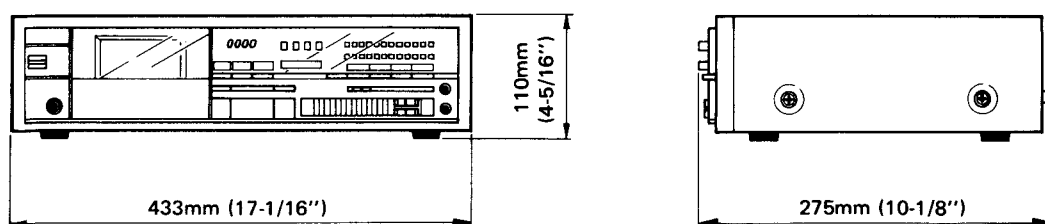


Fig. 2-2

## 3 PARTS LOCATION

### 部品配置図

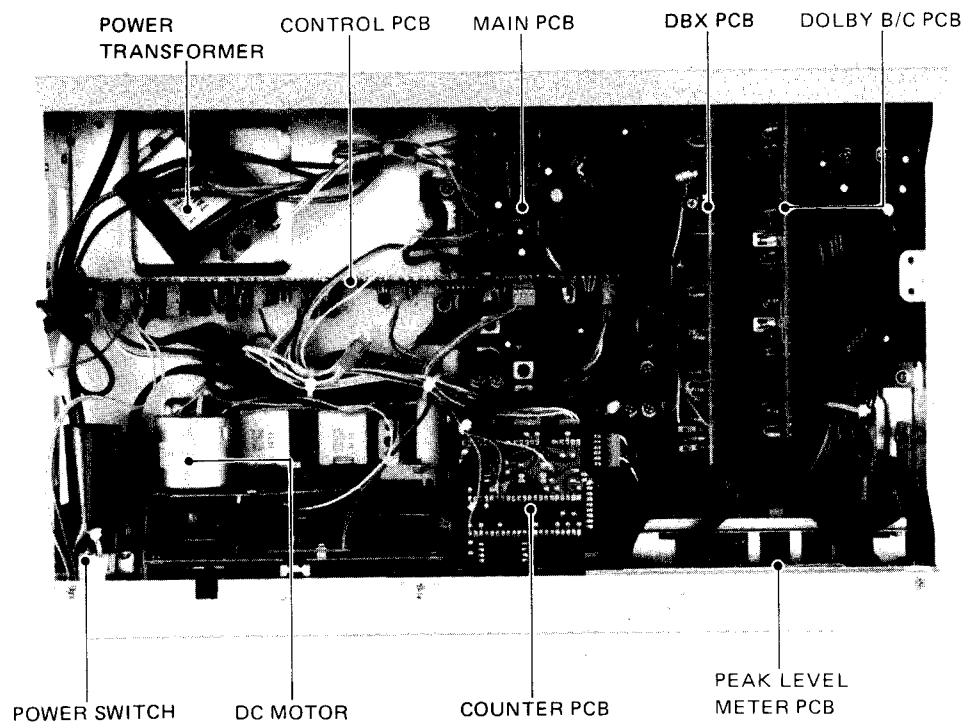


Fig. 3-1 Top view (V-500X)

V-500X上面

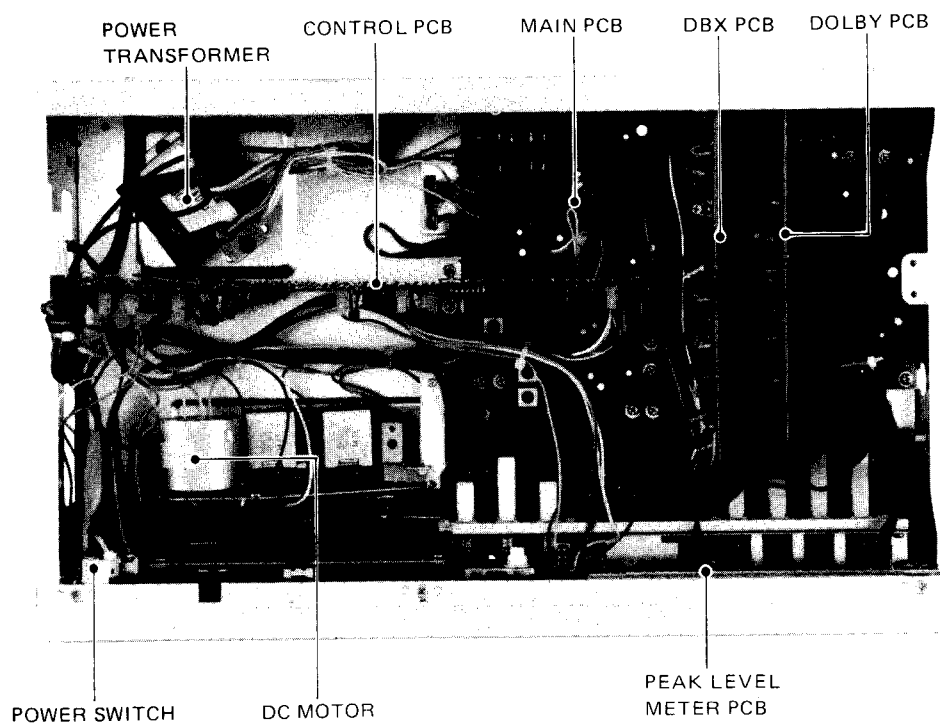


Fig. 3-2 Top view (V-400X)

V-400X上面

## 4 MECHANICAL ADJUSTMENTS AND CHECKS

### 機構部の調整および確認

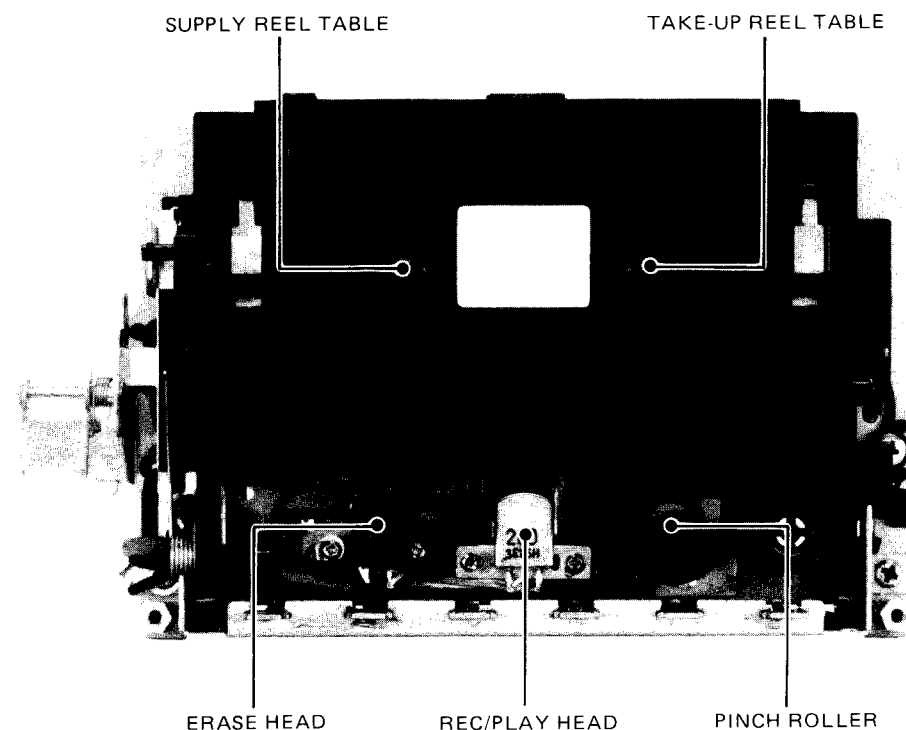


Fig. 3-3 Transport front view  
トランスポート部前面

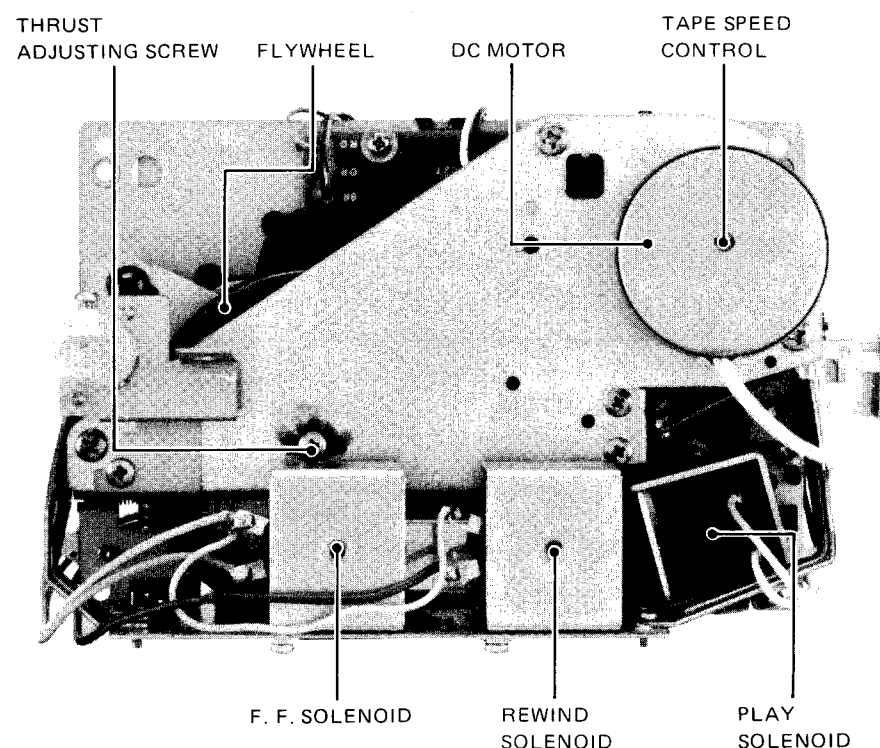


Fig. 3-4 Transport rear view  
トランスポート部後面

### 4-1 CAPSTAN ASSEMBLY THRUST

1. Turn the thrust adjusting screw so that thrust of the capstan shaft is from 0.1 mm to 0.3 mm. For the thrust adjusting screw location, see Fig. 3-4.

### 4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Simply press POWER switch to ON to rotate the motor, then continue the motor rotation for approx. 1 minute for warm-up.
3. As soon as the warm-up finishes, load a TEAC MTT-111 test tape with a 3,000 Hz test tone and play the middle of the test tape.
4. While the tape is playing, use a common slotted screwdriver with the handle completely insulated from the blade, and adjust the control built into the motor (see Fig. 3-4.) for a reading of 2,985 to 3,015 Hz on the frequency counter.
5. Play the tape at the beginning and at the end, and check that the speed deviation is within the prescribed limits by observing that the reading on the frequency counter never deviates more than  $\pm 75$  Hz from 3,000 Hz, nor drifts more than 45 Hz at any given time.

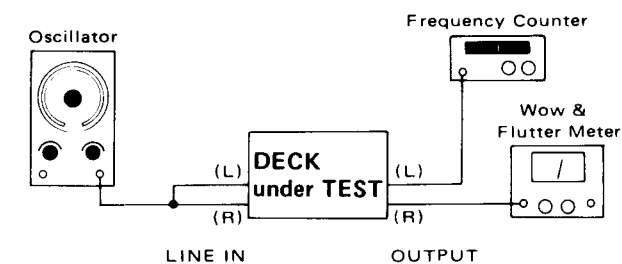


Fig. 4-1

### 4-3 WOW AND FLUTTER

Note: These measurements should be made at the beginning, middle, and the end of the tape.

#### 1) PLAYBACK

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the reading on the wow-and-flutter meter is within 0.12% (WRMS).

#### 2) RECORD/PLAYBACK

4. Load a TEAC MTT-501 test tape (blank) and record a 3,000 Hz signal.
5. Rewind the tape to the beginning of the recorded section, and play it.
6. The wow-and-flutter should not be more than 0.30% (RMS).

### 1. キャプスタンのスラスト調整

スラスト調整ねじ (Fig. 3-4 参照) でスラストのガタを 0.1~0.3 mm の範囲内に調整。

### 2. テープ速度調整

MTT-111 テープを再生し、再生周波数が  $3,000 \pm 15$  Hz の範囲内であることを確認する。

### 3. ワウ・フラッター・チェック

| 再生法 | WRMS | 0.12% | MTT-111 使用 |
|-----|------|-------|------------|
| 録再法 | RMS  | 0.30% | MTT-501 使用 |

### 4-4 VOLTAGE CONVERSION (General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the voltage selector on the rear panel as shown in the illustration.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

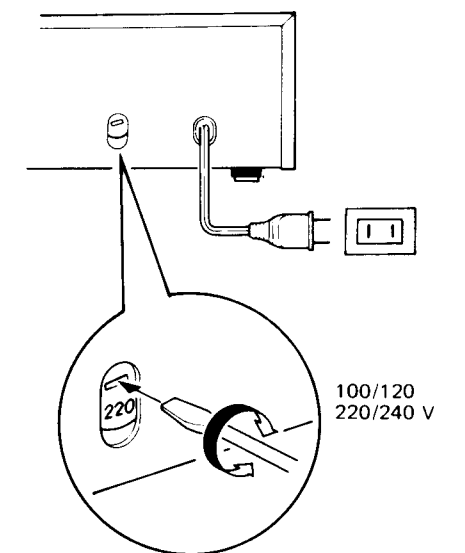


Fig. 4-2

## 5 ELECTRICAL ADJUSTMENTS AND CHECKS

アンプ部の調整と確認

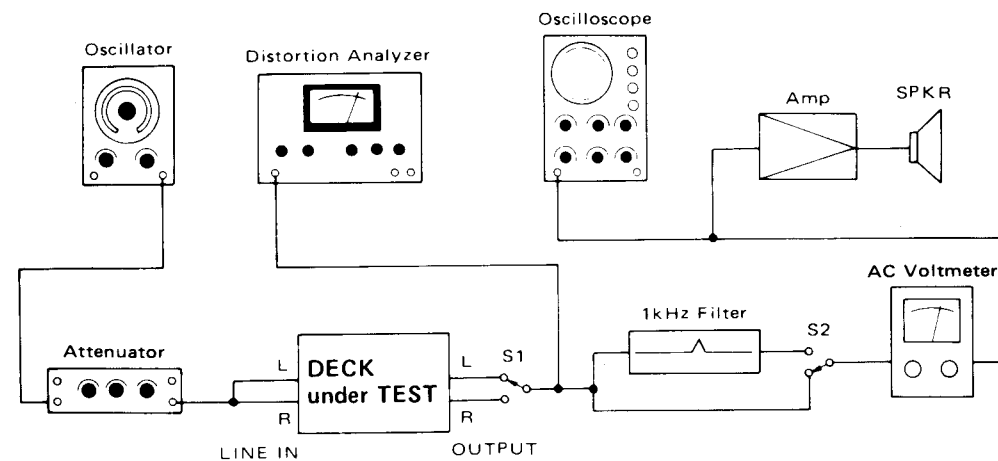


Fig. 5-1 Basic test setup

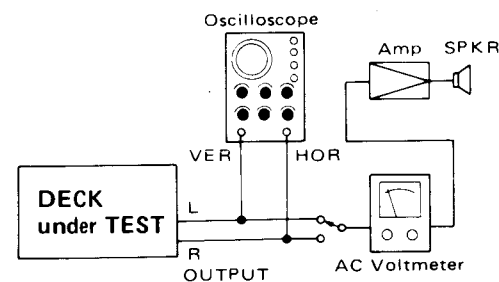


Fig. 5-2 Test setup for azimuth check

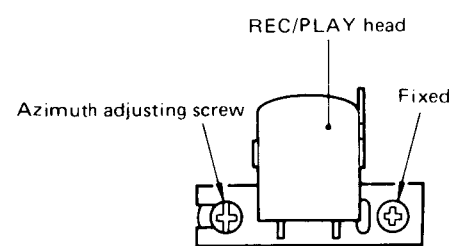


Fig. 5-3 Azimuth screw location

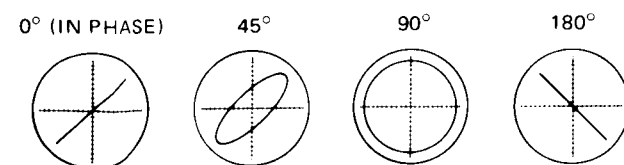


Fig. 5-4 Confirming phase relationship

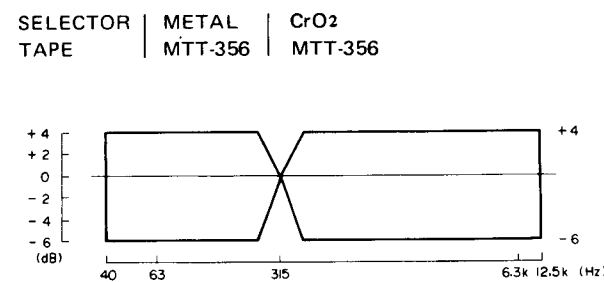


Fig. 5-5 Playback frequency response

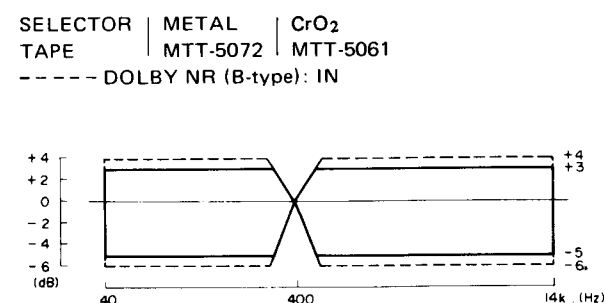


Fig. 5-6 Overall frequency response [METAL], [CrO2]

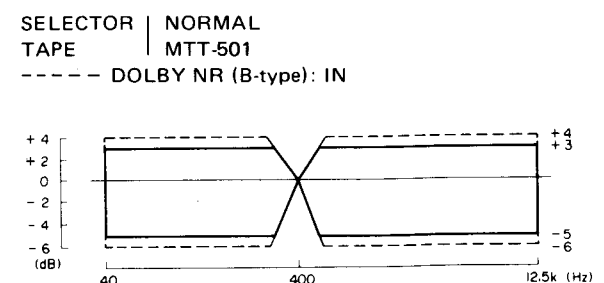


Fig. 5-7 Overall frequency response [NORMAL]

### PRECAUTIONS

- Before performing adjustments and checks, clean and demagnetize the entire tape path.
- Make sure the deck is properly set for the voltage in your locality.
- In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. and test point designations indicate L-ch/R-ch. (Example: R11/R21)
- 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
- The AC voltmeter used in the procedures must have an input impedance of 1 M-ohms or more.
- Note the "Deck settings" at the top of each chart. The settings apply to all checks for a specific chart unless explicitly stated otherwise.

Deck settings:  
TAPE SELECTOR sw: METAL  
NR SYSTEM sw: OUT  
OUTPUT cont.: 10 (MAX)

TEAC test tapes:  
MTT-150: For Dolby level calibration  
MTT-356: For playback frequency response check for METAL, CrO2  
MTT-501: For S/N check with NORMAL

### 5-1 PLAYBACK PERFORMANCE

| ITEM                      | SETTING                            | INPUT SIGNAL                                      | ADJUST (or CHECK)                    | MEASURING POINT<br>RESULT                                                        | REMARKS                                 |
|---------------------------|------------------------------------|---------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------|
| 1. REC/PLAY head azimuth  | Connection: Fig. 5-2               | MTT-150                                           | Check                                | OUTPUT:<br>Phase: within 45°                                                     | Refer to Fig. 5-4.                      |
|                           |                                    | MTT-356 (10 kHz)                                  | Azimuth screw of R/P head (Fig. 5-3) | OUTPUT:<br>Max. output at L-& R-ch's (on VTVM)                                   |                                         |
| 2. Specified output level | —                                  | MTT-150                                           | SR101/SR201                          | T.P (DOLBY)<br>V-500X: 245 mV (-10 dB)<br>V-400X: 580 mV (-2.5 dB)               |                                         |
|                           |                                    | MTT-150                                           | OUTPUT cont.                         | OUTPUT:<br>-3 dB $\pm$ 1 dB (489 to 615 mV)                                      | Spec. output level                      |
| 3. Peak level display     | —                                  | MTT-150                                           | SR104/SR204                          | PEAK LEVEL<br>DISPLAY: 0 dB                                                      |                                         |
| 4. Frequency response     | TAPE sw: METAL or CrO2             | MTT-356                                           | Check                                | OUTPUT:<br>Fig. 5-5                                                              |                                         |
|                           | TAPE sw: NORMAL                    | MTT-356                                           | Check                                | OUTPUT:<br>At 10 kHz, should be approx. 4 dB higher than measured in above step. |                                         |
| 5. Signal-to-noise ratio  | TAPE sw: NORMAL<br>Play-pause mode | Fully-erased MTT-501 tape (Use bulk tape eraser.) | Check                                | OUTPUT:<br>48 dB min.                                                            | Ratio of spec. output of -3dB to noise. |

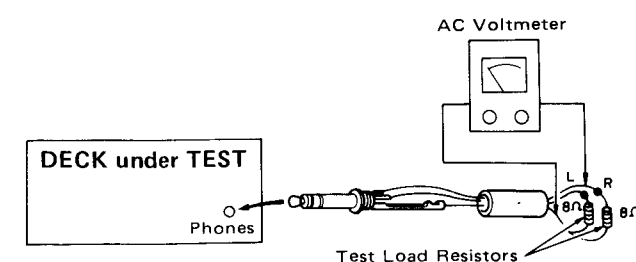


Fig. 5-8 Test setup for headphone check

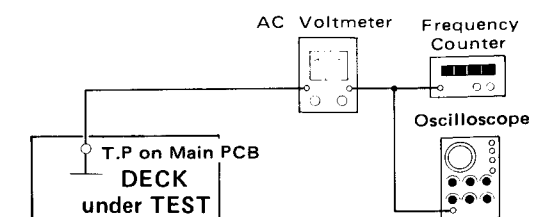


Fig. 5-9 Test setup for bias trap adjustment

Deck settings:  
 RECORD-PAUSE mode  
 NR SYSTEM sw: OUT  
 OUTPUT cont.: Specified position (item 2)

## 5-2 MONITOR PERFORMANCE

| ITEM                             | SETTING                                                                                                | INPUT SIGNAL                                                                     | ADJUST<br>(or CHECK)  | MEASURING<br>POINT<br>RESULT                                              | REMARKS                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|
| 6. Min. input level              | RECORD cont.<br>(L/R): MAX                                                                             | MIC:<br>400 Hz/−67 dB<br>(346 $\mu$ V)<br>LINE IN:<br>400 Hz/−19 dB<br>(86.9 mV) | Check                 | OUTPUT:<br>−3 dB $\pm$ 3 dB<br>(388 mV to 775 mV)                         | MIC min. input<br>level<br>LINE min. input<br>level                    |
| 7. Specified LINE<br>input level | —                                                                                                      | LINE IN:<br>400 Hz/−9 dB<br>(275 mV)                                             | RECORD<br>cont. (L/R) | T.P. (DOLBY)<br>V-500X: 245 mV<br>(−10 dB)<br>V-400X: 580 mV<br>(−2.5 dB) | Specified setting<br>of RECORD cont.<br>Specified LINE<br>input level. |
|                                  | —                                                                                                      | LINE IN:<br>400 Hz/−9 dB<br>(275 mV)                                             | Check                 | OUTPUT:<br>−3 dB $\pm$ 1.5 dB<br>(461 mV to 652 mV)                       |                                                                        |
|                                  | IMPORTANT: Do not change the setting of the RECORD controls after establishing their setting as above. |                                                                                  |                       |                                                                           |                                                                        |
| 8. Peak level display            | —                                                                                                      | LINE IN:<br>400 Hz/−9 dB<br>(275 mV)                                             | Check                 | PEAK LEVEL<br>DISPLAY:<br>0 dB                                            |                                                                        |
| 9. Headphone<br>output level     | Connection: Fig. 5-8                                                                                   | LINE IN:<br>400 Hz/−9 dB<br>(275 mV)                                             | Check                 | PHONES:<br>−19 dB $\pm$ 3 dB<br>(61.5 mV to 109 mV)                       | 8 ohm load                                                             |

Deck settings:  
 NR SYSTEM sw: OUT  
 RECORD cont. (L/R): Specified position (item 7)  
 OUTPUT cont.: Specified position (item 2)

TEAC recording test tapes:  
 MTT-5072: For METAL  
 MTT-5061: For CrO<sub>2</sub>  
 MTT-501: For NORMAL

## 5-3 RECORDING PERFORMANCE

| ITEM             | SETTING                                       | INPUT SIGNAL                                                     | ADJUST<br>(or CHECK)                          | MEASURING<br>POINT<br><br>RESULT                         | REMARKS                     |
|------------------|-----------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------|-----------------------------|
| 10. Bias trap    | Connection: Fig. 5-9<br>Record-pause mode     | LINE IN:<br>No signal                                            | L901                                          | T.P. (HEAD)<br>85 kHz on fre-<br>quency counter          | Specified<br>bias frequency |
|                  |                                               |                                                                  | T101/T201                                     | TP102<br>TP202                                           |                             |
| 11. Record bias  | { TAPE sw: NORMAL<br>Tape: MTT-501            | LINE IN:<br>400 Hz & 12.5 kHz<br>alternately/−42 dB<br>(6.15 mV) | SR102/SR202                                   | OUTPUT:<br>Nearly equal<br>level at both<br>frequencies. | DOLBY B<br>NR: IN           |
|                  | Check                                         |                                                                  | { TAPE sw: CrO <sub>2</sub><br>Tape: MTT-5061 |                                                          |                             |
|                  |                                               |                                                                  | { TAPE sw: METAL<br>Tape: MTT-5072            |                                                          |                             |
| 12. Record level | { TAPE sw: CrO <sub>2</sub><br>Tape: MTT-5061 | LINE IN:<br>400 Hz/−12 dB<br>(195 mV)                            | SR103/SR203                                   | OUTPUT:<br>−6 dB (388 mV)                                |                             |
|                  | Check                                         |                                                                  | { TAPE sw: NORMAL<br>Tape: MTT-501            | OUTPUT:<br>−6 dB ±1.5 dB<br>(327 mV to 461 mV)           |                             |
|                  |                                               |                                                                  | { TAPE sw: METAL<br>Tape: MTT-5072            |                                                          |                             |

| ITEM                                | SETTING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INPUT SIGNAL                                           | ADJUST<br>(or CHECK) | MEASURING<br>POINT<br>RESULT                                               | REMARKS                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------|----------------------------------------------------------------------------|------------------------------------------------------|
| 13. Total harmonic distortion       | { TAPE sw: METAL<br>Tape: MTT-5072<br>{ TAPE sw: CrO2<br>Tape: MTT-5061<br>{ TAPE sw: NORMAL<br>Tape: MTT-501                                                                                                                                                                                                                                                                                                                                                                                                                                          | LINE IN:<br>400 Hz/-12 dB<br>(195 mV)                  | Check                | OUTPUT:<br>2.0% or less with<br>METAL, CrO2<br>2.5% or less with<br>NORMAL |                                                      |
| 14. Frequency response              | { TAPE sw: METAL<br>Tape: MTT-5072<br>{ TAPE sw: CrO2<br>Tape: MTT-5061<br>{ TAPE sw: NORMAL<br>Tape: MTT-501                                                                                                                                                                                                                                                                                                                                                                                                                                          | LINE IN:<br>Required signal/<br>-42 dB (6.15 mV)       | Check                | OUTPUT:<br>Fig. 5-6 and 5-7                                                | If out of spec.,<br>recheck #11<br>and #13           |
| 15. Signal-to-noise ratio           | { TAPE sw: METAL<br>Tape: MTT-5072<br>{ TAPE sw: CrO2<br>Tape: MTT-5061<br>{ TAPE sw: NORMAL<br>Tape: MTT-501                                                                                                                                                                                                                                                                                                                                                                                                                                          | LINE IN:<br>1 kHz/-9 dB<br>(275 mV)<br>↓<br>no signal  | Check                | OUTPUT:<br>47 dB min.<br>[METAL, CrO2]<br>46 dB min.<br>[NORMAL]           | Ratio of<br>specified output<br>of -3 dB to<br>noise |
| 16. Erase efficiency                | Connection is same as in Fig. 5-1, but engage 1-kHz filter.<br>Record a 1-kHz signal. Rewind tape to midpoint of recorded portion.<br>Record a "no signal" portion. Find the difference between the 1-kHz portion<br>and the "no-signal" portion.                                                                                                                                                                                                                                                                                                      |                                                        |                      |                                                                            |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>1 kHz/+1 dB<br>(0.869 V)<br>↓<br>no signal | Check                | OUTPUT:<br>65 dB min. ratio                                                | Ref. output<br>level:<br>+7 dB (1.73 V)              |
| 17. REC MUTE function               | Connection: Fig. 5-1, but engage 1-kHz filter.<br>Record a 1-kHz signal. Push REC MUTE button for several seconds. (At this time, make sure lights).<br>Rewind and play the tape. Find the difference between the 1-kHz portion and the "no-signal" portion.                                                                                                                                                                                                                                                                                           |                                                        |                      |                                                                            |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>1 kHz/+1 dB<br>(0.869 V)<br>↓<br>no signal | Check                | OUTPUT:<br>65 dB min. ratio                                                | Ref. output<br>level:<br>+7 dB (1.73 V)              |
| 18. DOLBY NR effect (B-type)        | Record a 1-kHz signal with switch in <input type="checkbox"/> <input type="checkbox"/> B (V-500X) or <input type="checkbox"/> <input type="checkbox"/> (V-400X).<br>Play this portion with switch set to OUT and <input type="checkbox"/> <input type="checkbox"/> B or <input type="checkbox"/> <input type="checkbox"/> . Obtain the difference in output level<br>between OUT and <input type="checkbox"/> <input type="checkbox"/> B/ <input type="checkbox"/> <input type="checkbox"/> positions. Repeat the above process using a 10-kHz signal. |                                                        |                      |                                                                            |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>1 kHz/-29 dB<br>(27.5 mV)                  | Check                | OUTPUT:<br>Variation<br>3 dB ~ 8 dB                                        |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>10 kHz/-39 dB<br>(8.69 mV)                 | Check                | OUTPUT:<br>Variation<br>8 dB ~ 12 dB                                       |                                                      |
| 19. Dolby NR effect (C-type) V-500X | Repeat the same procedure above, except see that the NR SYSTEM switch is set to <input type="checkbox"/> <input type="checkbox"/> C.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                      |                                                                            |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>1 kHz/-39 dB<br>(8.69 mV)                  | Check                | OUTPUT:<br>Variation<br>16 dB ~ 20 dB                                      |                                                      |
|                                     | { TAPE sw: METAL<br>Tape: MTT-5072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LINE IN:<br>10 kHz/-49 dB<br>(2.75 mV)                 | Check                | OUTPUT:<br>Variation<br>16 dB ~ 20 dB                                      |                                                      |
| 20. dbx adj.                        | { TAPE sw: NORMAL<br>NR SYSTEM: dbx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LINE IN:<br>1 kHz/-24 dB                               | SR971                | 15 mV                                                                      | Voltage between<br>both lead of<br>R984 (1 kΩ)       |

- 注1. 調整および確認の前に、消去および録／再の各ヘッドとテープ走行部をそれぞれ十分に消磁し、クリーナ液で清掃する。
2. 調整および確認は左チャンネル、右チャンネルの順に行なう。

3. 0dB=0.775V
4. 使用するレベル計の入力インピーダンスは1MΩ以上。
5. 特に指示のない限り各スイッチおよびつまみの位置は各表のように設定する。

## 再生系

NR SYSTEM : OUT  
TAPE SELECTOR : METAL  
OUTPUTつまみ : 10(最大)

| 調 整 項 目         | 準 備・設 定                                 | 入 力 信 号              | 調 整 個 所      | 測定箇所・調整値                                                               | 備 考            |
|-----------------|-----------------------------------------|----------------------|--------------|------------------------------------------------------------------------|----------------|
| 1. ヘッド・アジマス調整   | 設定表参照<br>(Fig5-2)                       | MTT-150              | チェック         | 位相 45°以内                                                               | Fig5-4参照       |
|                 |                                         | MTT-356<br>(10kHz区分) | ヘッドのアジマス調整ねじ | L,R共最大出力                                                               |                |
| 2. 再生レベル・セット    | 同 上                                     | MTT-150              | SR101/SR201  | T.P.(DOLBY)<br>V-500X : 245mV<br>(-10dB)<br>V-400X : 580mV<br>(-2.5dB) |                |
|                 |                                         |                      | OUTPUTつまみ    | OUTPUT : -3±1dB                                                        | 規定再生状態         |
| 3. メーター・レベル・セット | 規定再生状態                                  | MTT-150              | SR104/SR204  | ピーク・レベル・プログラム・メーター指示:<br>0dB                                           |                |
| 4. 再生周波数特性チェック  | TAPE SELECTOR<br>METAL/CrO <sub>2</sub> | MTT-356              | チェック         | OUTPUT :<br>Fig5-5参照                                                   |                |
|                 | TAPE SELECTOR<br>NORMAL                 | 同 上                  | チェック         | OUTPUT : TAPE SELECTORをMETAL<br>→NORMALにすると、10kHzの出力が4<br>dB高くなること。    |                |
| 5. 再生S/Nチェック    | 同 上                                     | 空カセット<br>(テープなし)     | チェック         | S/N NORMAL : 48dB<br>以上                                                | 基準レベルは<br>-3dB |

## モニタ系

録音待機状態  
NR SYSTEM : OUT  
OUTPUTつまみ : 規定出力状態

| 調 整 項 目            | 準 備・設 定            | 入 力 信 号                 | 調 整 個 所   | 測定箇所・調整値                                                               | 備 考                     |
|--------------------|--------------------|-------------------------|-----------|------------------------------------------------------------------------|-------------------------|
| 6. 最小入力レベル         | RECORD つまみ MAX     | 400Hz/-67dB             | チェック      | OUTPUT : -3±3dB                                                        | MIC最小入力レベル              |
|                    | 同 上                | 400Hz/-19dB             | チェック      | 同 上                                                                    | LINE 最小入力レベル            |
| 7. LINE入力レベル       | —                  | LINE IN :<br>400Hz/-9dB | RECORDつまみ | T.P.(DOLBY)<br>V-500X : 245mV<br>(-10dB)<br>V-400X : 580mV<br>(-2.5dB) | RECORD つまみの規定入力レベルセット位置 |
|                    |                    | 同 上                     | チェック      | OUTPUT : -3±1.5dB                                                      | 規定入力状態                  |
| 8. メーター・レベル・チェック   | LINE規定入力状態         | 同 上                     | チェック      | ピーク・プログラム・レベル・メーター指示:<br>0dB                                           |                         |
| 9. ヘッドホン出力レベル・チェック | 同 上<br>接続はFig5-8参照 | 同 上                     | チェック      | PHONES : -19±3dB                                                       | 8Ω負荷                    |

## 録音系

NR SYSTEM : OUT

OUTPUTつまみ : 規定出力状態

RECORDつまみ : 規定入力状態

| 調 整 項 目                                    | 準 備・設 定                                      |                                 | 入 力 信 号                               | 調 整 個 所     | 測定箇所・調整値                                                                                                                   | 備 考                                   |
|--------------------------------------------|----------------------------------------------|---------------------------------|---------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 10. バイアス・トラップ                              | 設定 Fig5-9参照<br>REC/PAUSE 状態                  |                                 | 無 信 号                                 | L901        | TP(TP101/TP201)<br>85kHz                                                                                                   | 規定バイアス<br>発振周波数                       |
|                                            | 同 上                                          |                                 | 同 上                                   | T101/T201   | TP102/TP202                                                                                                                | バイアス漏れ最小                              |
| 11. バイアス・セット                               | TAPE<br>SELECTOR                             | テープ                             | LINE IN :<br>400Hz, 12.5kHz<br>/-42dB | SR102/SR202 | OUTPUT<br>両信号の出力レベルが等<br>しくなるよう調整                                                                                          | DOLBY B<br>NR : IN                    |
|                                            | NORMAL<br>CrO <sub>2</sub><br>METAL          | MTT-501<br>MTT-5061<br>MTT-5071 | 同 上                                   | チェック        |                                                                                                                            |                                       |
|                                            |                                              |                                 |                                       |             |                                                                                                                            |                                       |
| 12. 録音レベル・セット                              | CrO <sub>2</sub><br>NORMAL<br>METAL          | MTT-5061<br>MTT-501<br>MTT-5072 | LINE IN :<br>400Hz/-12dB              | SR103/SR203 | OUTPUT : -6dB                                                                                                              | 規定録音状態                                |
|                                            |                                              |                                 |                                       | チェック        | OUTPUT : -6±1.5dB                                                                                                          |                                       |
| 13. 総合歪率チェック                               | METAL<br>CrO <sub>2</sub><br>NORMAL          | MTT-5072<br>MTT-5061<br>MTT-501 | LINE IN :<br>400Hz/-12dB              | チェック        | OUTPUT :<br>METAL, CrO <sub>2</sub> 2.0%以下<br>NORMAL 2.5%以下                                                                |                                       |
| 14. 総合周波数特性                                | 同 上                                          |                                 | -42dB                                 | チェック        | 規格 OUTPUT :<br>METAL, CrO <sub>2</sub><br>Fig5-6参照<br>NORMAL Fig5-7参照                                                      | 規定を満足しない<br>場合は11項お<br>よび13項をチェ<br>ック |
| 15. 総合S/Nチェック                              | 同 上                                          |                                 | LINE IN :<br>1kHz/-9dB<br>→無信号        | チェック        | OUTPUT :<br>METAL, CrO <sub>2</sub> 47dB以上<br>NORMAL 46dB以上                                                                | 基準レベルを<br>-3dBとした場<br>合の雑音レベル比        |
| 16. 消去率チェック                                | METAL                                        | MTT-5072                        | LINE IN :<br>1kHz/+1dB<br>→無信号        | チェック        | OUTPUT :<br>レベル差65dB以上                                                                                                     | 1kHz B.P.F使用.<br>+7dBを基準<br>レベルとする.   |
| 17. REC MUTE効果チェック                         | 同 上                                          |                                 | 1kHz/+1dB                             | チェック        | 入力信号を録音し、途中でREC MUTE釦を<br>押して無信号録音部分をつくる(REC MU-<br>TEランプが点灯を確認)。テープを再生し<br>て、信号部分と無信号部分との出力レベル<br>差、65dB以上(1kHz, B.P.F使用) |                                       |
| 18. ドルビーNR効果チェック<br>(B-TYPE)               | 同 上                                          |                                 | LINE IN :<br>1kHz/-29dB               | チェック        | NR SYSTEMスイッチを00B(00)にして<br>信号を録音する。このテープを再生し、ス<br>イッチをOUT↔00B(00)と切り換えたと<br>きの出力レベル変化、3~8dB                               |                                       |
|                                            |                                              |                                 | 10kHz/-39dB                           | チェック        | 測定法：同上、8~12dB                                                                                                              |                                       |
| 19. ドルビーNR効果チェック<br>(C-TYPE)<br>(V-500Xのみ) | 同 上                                          |                                 | LINE IN :<br>1kHz/-39dB               | チェック        | NR SYSTEMスイッチを00Cにして信号<br>を録音し、このテープを再生してスイッ<br>チをOUT↔00Cと切り換えたときの出力レ<br>ベル変化、16~20dB                                      |                                       |
|                                            |                                              |                                 | 10kHz/-49dB                           | チェック        | 測定法：同上、16~20dB                                                                                                             |                                       |
| 20. dbx調整                                  | TAPE SELECTOR<br>: NORMAL<br>NR SYSTEM : dbx |                                 | LINE IN :<br>1kHz/-24dB               | SR971       | 15mV                                                                                                                       | R984(1kΩ)<br>の両端電圧                    |

## 5-4 ADJUSTMENTS AND TEST POINT LOCATIONS

調整部およびテスト・ポイントの位置

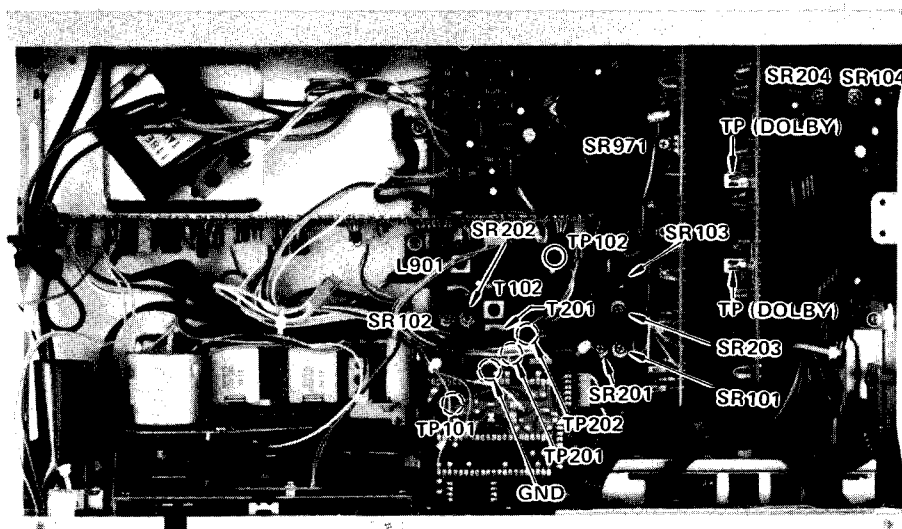


Fig. 5-10 V-500X

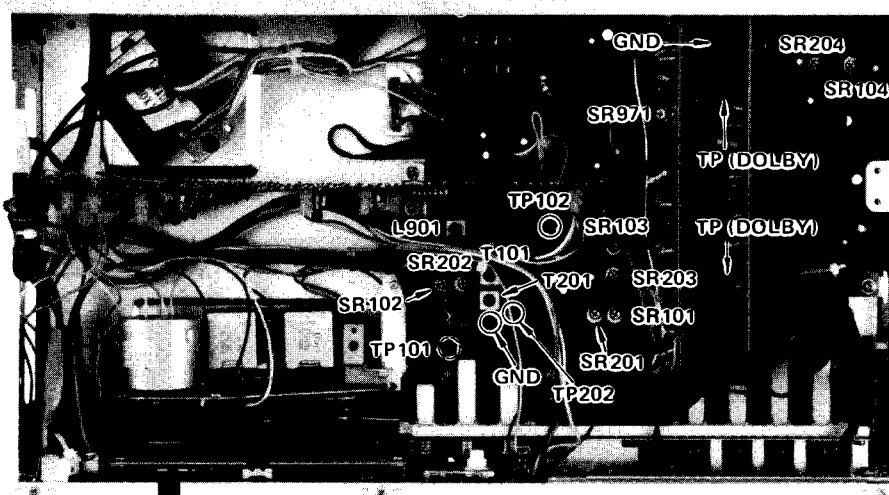
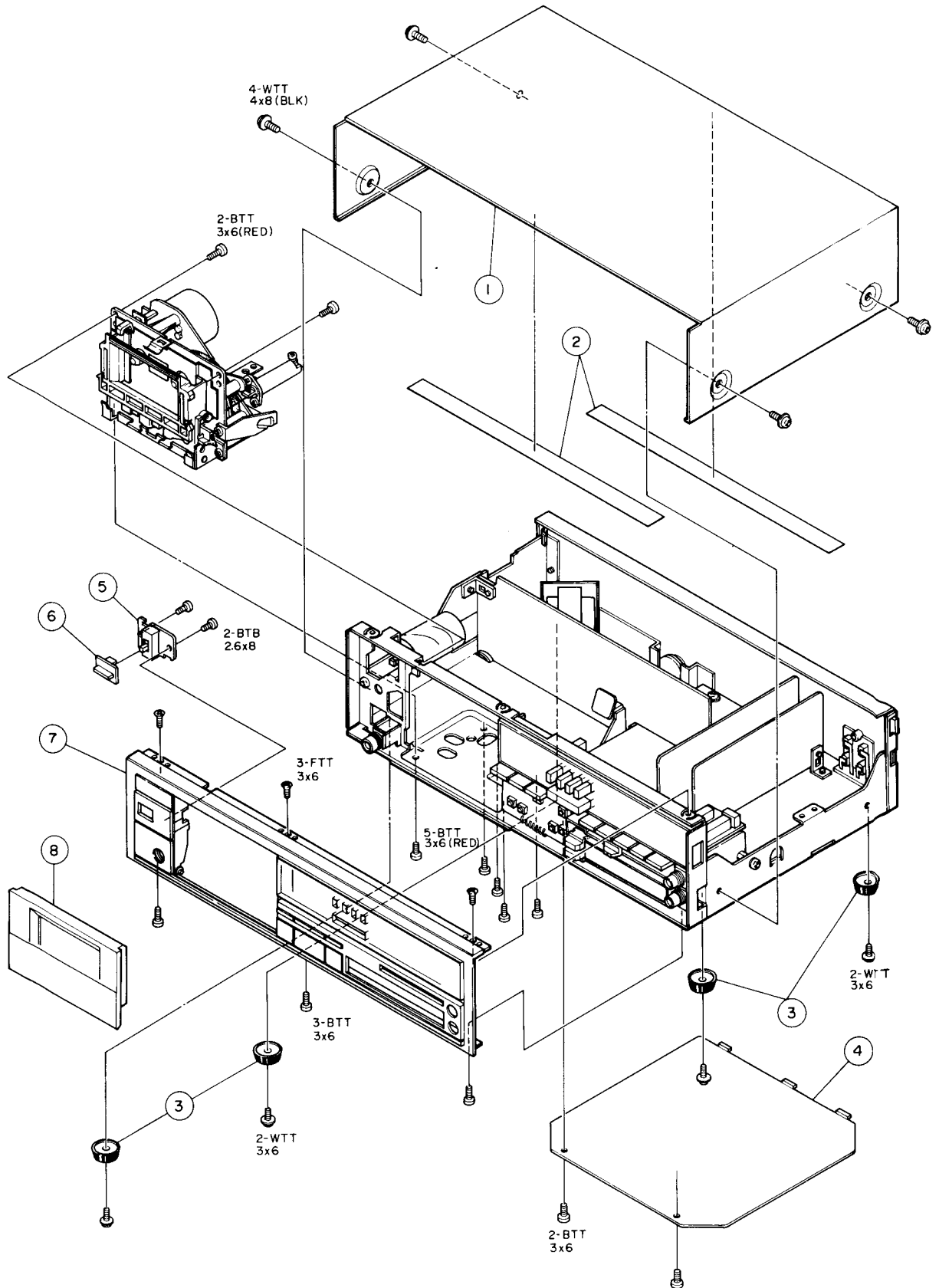


Fig. 5-11 V-400X

|             |                          |                    |
|-------------|--------------------------|--------------------|
| SR101/SR201 | Output level             | 出力レベル              |
| SR102/SR202 | Record bias              | 録音バイアス             |
| SR103/SR203 | Record level             | 録音レベル              |
| SR104/SR204 | Peak program level meter | ピーク・プログラム・レベル・メーター |
| SR971       | dbx CURRENT SOURCE       | dbx カレント・ソース       |
| L901        | Bias OSC frequency       | バイアス発振器周波数         |
| T101/T201   | Bias trap                | バイアス・トラップ          |

## 6 EXPLODED VIEWS AND PARTS LIST

### EXPLODED VIEW- 1



| REF. NO. | PARTS NO.   | DESCRIPTION                   | COMMON MODELS           | REMARKS |
|----------|-------------|-------------------------------|-------------------------|---------|
| 1 - 1    | *5760535000 | Cover, Top                    | V-300<br>V-300<br>V-300 |         |
| 1 - 2    | *5760404900 | Cushion, C                    |                         |         |
| 1 - 3    | 5760405100  | Foot                          |                         |         |
| 1 - 4    | *5760460700 | Cover, Bottom                 |                         |         |
| 1 - 5    | *5760506900 | PCB Assy, TIMER               |                         |         |
| 1 - 6    | 5760514300  | Button, TIMER                 | V-300                   |         |
| 1 - 7    | *5760539100 | Panel Assy, Front (V-500X)    |                         |         |
|          | *5760514100 | Panel Assy, Front (V-400X)    |                         |         |
| 1 - 8    | 5760514210  | Cover Assy, Cassette (V-500X) |                         |         |
|          | 5760514200  | Cover Assy, Cassette (V-400X) |                         |         |

#### INCLUDED ACCESSORIES

| REF. NO. | PARTS NO.   | DESCRIPTION                                  | COMMON MODELS | REMARKS |
|----------|-------------|----------------------------------------------|---------------|---------|
|          | *5700049400 | Owner's Manual, V-500X/V-400X [All except J] |               |         |
|          | *5700049700 | Owner's Manual, V-500X [J]                   |               |         |

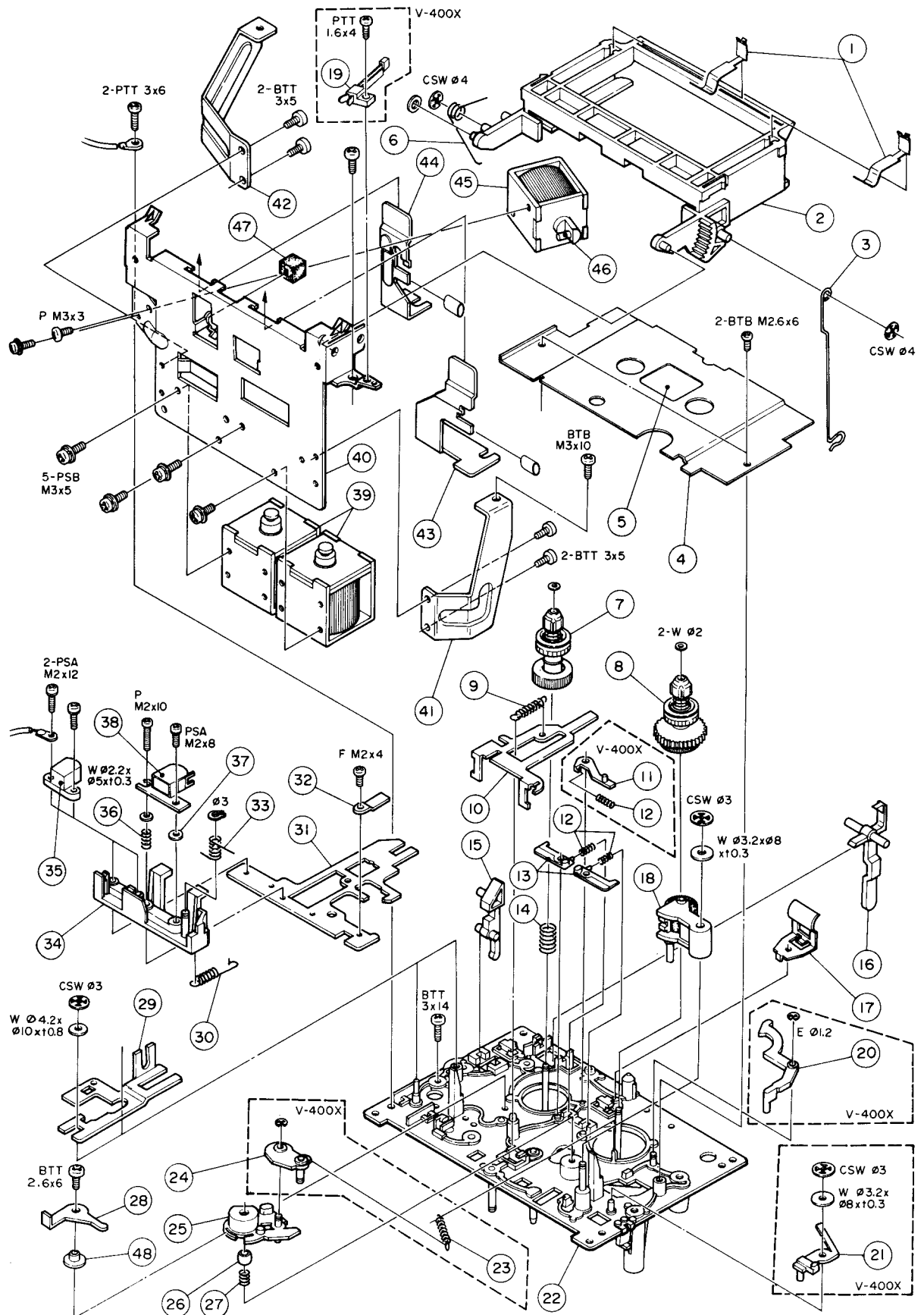
(Continued from page 21)

| REF. NO. | PARTS NO.    | DESCRIPTION                         | COMMON MODELS | REMARKS |
|----------|--------------|-------------------------------------|---------------|---------|
| 4 - 40   | 5760504800   | Switch, Push (V-400X)               | V-300         |         |
| 4 - 41   | *5760504100  | Chassis, Front                      |               |         |
| 4 - 42   | *5760506400  | PCB Assy, HEADPHONE                 |               |         |
| 4 - 43   | △ 5760513500 | Switch, Power                       |               |         |
| 4 - 44   | △ 5760513600 | Ceramic Cap. 0.047μF/250V [J, U, C] |               |         |
|          | △ 5760513700 | Ceramic Cap. 0.01μF/250V [GE]       |               |         |
|          | △ 5760513800 | Ceramic Cap. 0.047μF [E, UK, A]     |               |         |
| 4 - 45   | 5760514400   | Button, A; NORMAL                   |               |         |
| 4 - 46   | 5760514500   | Button, B; CrO <sub>2</sub>         |               |         |
| 4 - 47   | 5760514600   | Button, C; METAL                    |               |         |
| 4 - 48   | 5760514700   | Button, D; OUT                      |               |         |
| 4 - 49   | 5760514800   | Button, E; DOLBY (V-400X)           |               |         |
| 4 - 50   | 5760514900   | Button, F; DBX                      |               |         |
| 4 - 51   | 5760515000   | Button, G; DBX DISC                 |               |         |
| 4 - 52   | 5760539200   | Button, H; DOLBY B (V-500X)         |               |         |
| 4 - 53   | 5760539300   | Button, I; DOLBY C (V-500X)         |               |         |
| 4 - 54   | *5760151100  | Lug Plate, Relay [E, UK, A]         |               |         |
| 4 - 55   | *5760504900  | Clamper, Cord                       |               |         |
| 4 - 56   | *5760513900  | Shield Core, A [J, U, C]            |               |         |
|          | *5760514000  | Shield Core, B [GE, E, UK, A]       |               |         |
| 4 - 57   | *5760539000  | Clamper, Transformer (V-500X)       |               |         |
| 4 - 58   | *5760541300  | Holder, Counter (V-500X)            |               |         |

Parts marked with \*require longer delivery time.

[U]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT  
[A]: AUSTRALIA [E]: EUROPE [UK]: U.K.  
[J]: JAPAN

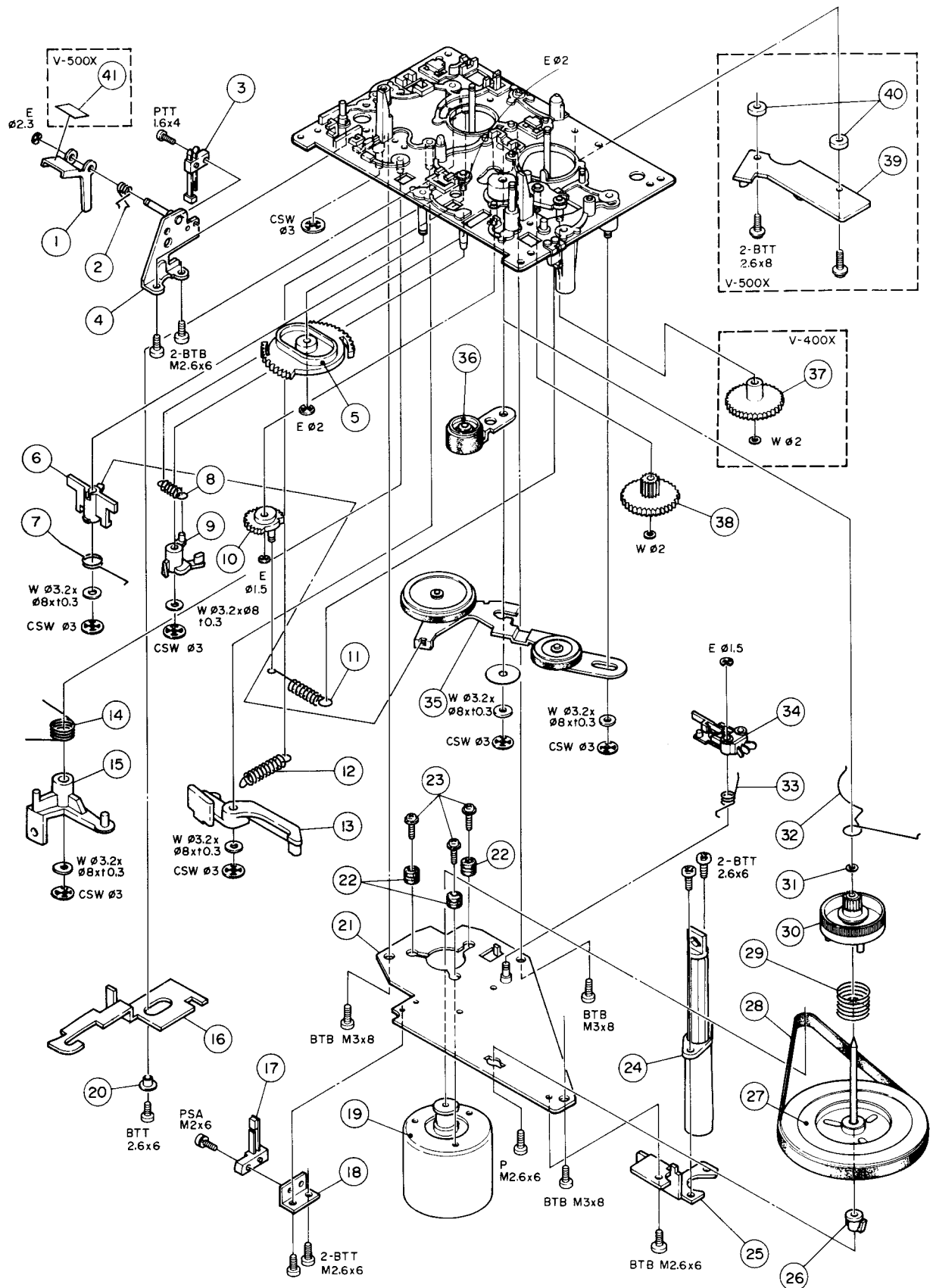
## EXPLODED VIEW-2



| REF. NO. | PARTS NO.   | DESCRIPTION                    | COMMON MODELS | REMARKS |
|----------|-------------|--------------------------------|---------------|---------|
| 2 - 1    | *5760393500 | Spring, Cassette Pressure      | V-33          |         |
| 2 - 2    | *5760502200 | Holder, Cassette               |               |         |
| 2 - 3    | *5760459200 | Spork, Damper                  | V-300         |         |
| 2 - 4    | *5760394001 | Cover, Chassis; B              | V-33          |         |
| 2 - 5    | *5760394100 | Plate, Refractive              | V-33          |         |
| 2 - 6    | 5760393600  | Spring, Ccssette Holder; D     |               |         |
| 2 - 7    | 5760536700  | Reel Assy, Supply; B (V-500X)  |               |         |
|          | 5760391600  | Reel Assy, Supply (V-400X)     |               |         |
| 2 - 8    | 5760536600  | Reel Assy, Take-up; D (V-500X) |               |         |
|          | 5760391800  | Reel Assy, Take-up; B (V-400X) |               |         |
| 2 - 9    | 5760391100  | Spring, FF Lever; B            | V-33          |         |
| 2 - 10   | *5760501500 | Lever, FF; B                   |               |         |
| 2 - 11   | *5760387400 | Lever, Auto (V-400X)           | V-33          |         |
| 2 - 12   | 5760390700  | Spring, Brake                  | V-33          |         |
| 2 - 13   | *5760390600 | Arm, Brake                     | V-33          |         |
| 2 - 14   | 5760391700  | Spring, BT; D                  | V-33          |         |
| 2 - 15   | *5760392800 | Arm, Door Lock                 | V-33          |         |
| 2 - 16   | *5760501400 | Arm Assy                       |               |         |
| 2 - 17   | *5760393700 | Spring, Cassette Pressure; C   | V-33          |         |
| 2 - 18   | 5760501200  | Pinch Roller Assy, B           |               |         |
| 2 - 19   | 5760395300  | Switch Lief (V-400X)           |               |         |
| 2 - 20   | *5760390100 | Arm, Auto Stop (V-400X)        | V-33          |         |
| 2 - 21   | *5760390200 | Arm, Kick (V-400X)             | V-33          |         |
| 2 - 22   | *5760386801 | Chassis Assy, Mechanism        | V-33          |         |
| 2 - 23   | 5199047000  | Spring, P.Pulley (V-400X)      | V-33          |         |
| 2 - 24   | *5760388700 | Arm, Cam Gear (V-400X)         | V-33          |         |
| 2 - 25   | *5760390400 | Arm, P. Pulley                 | V-33          |         |
| 2 - 26   | 5199041000  | Metal, Flywheel                |               |         |
| 2 - 27   | 5199088000  | Spring, Earth                  | V-33          |         |
| 2 - 28   | *5760502500 | Lever                          |               |         |
| 2 - 29   | *5760502000 | Lever, Eject; B                |               |         |
| 2 - 30   | 5760390000  | Spring, Lift                   | V-33          |         |
| 2 - 31   | *5760501100 | Chassis, Head; B               |               |         |
| 2 - 32   | *5760387300 | Plate, Thrust                  | V-33          |         |
| 2 - 33   | 5760387600  | Spring, Pinch Roller           | V-33          |         |
| 2 - 34   | *5760387000 | Stand, Head                    | V-33          |         |
| 2 - 35   | 5760387200  | Head Assy, ERASE               | V-33          |         |
| 2 - 36   | 5760388000  | Spring, Head Azimuth; B        | V-33          |         |
| 2 - 37   | *5760501300 | Washer, Head                   |               |         |
| 2 - 38   | 5378901800  | Head Assy, REC/PLAY (V-500X)   |               |         |
|          | 5760387100  | Head Assy, REC/PLAY (V-400X)   | V-33          |         |
| 2 - 39   | 5760503800  | Solenoid, FF/REW               |               |         |
| 2 - 40   | *5760502800 | Holder Assy, Solenoid; C       |               |         |
| 2 - 41   | *5760503600 | Bracket, R                     |               |         |
| 2 - 42   | *5760503700 | Bracket, L                     |               |         |
| 2 - 43   | *5760502300 | Arm, FF Solenoid               |               |         |
| 2 - 44   | *5760502400 | Arm, REW Solenoid              |               |         |
| 2 - 45   | 5760503700  | Solenoid, PLAY                 |               |         |
| 2 - 46   | *5760503200 | Pin, Solenoid                  |               |         |
| 2 - 47   | *5760502600 | Cushion                        |               |         |
| 2 - 48   | *5760502700 | Collar, Lever                  |               |         |

Parts marked with \*require longer delivery time.

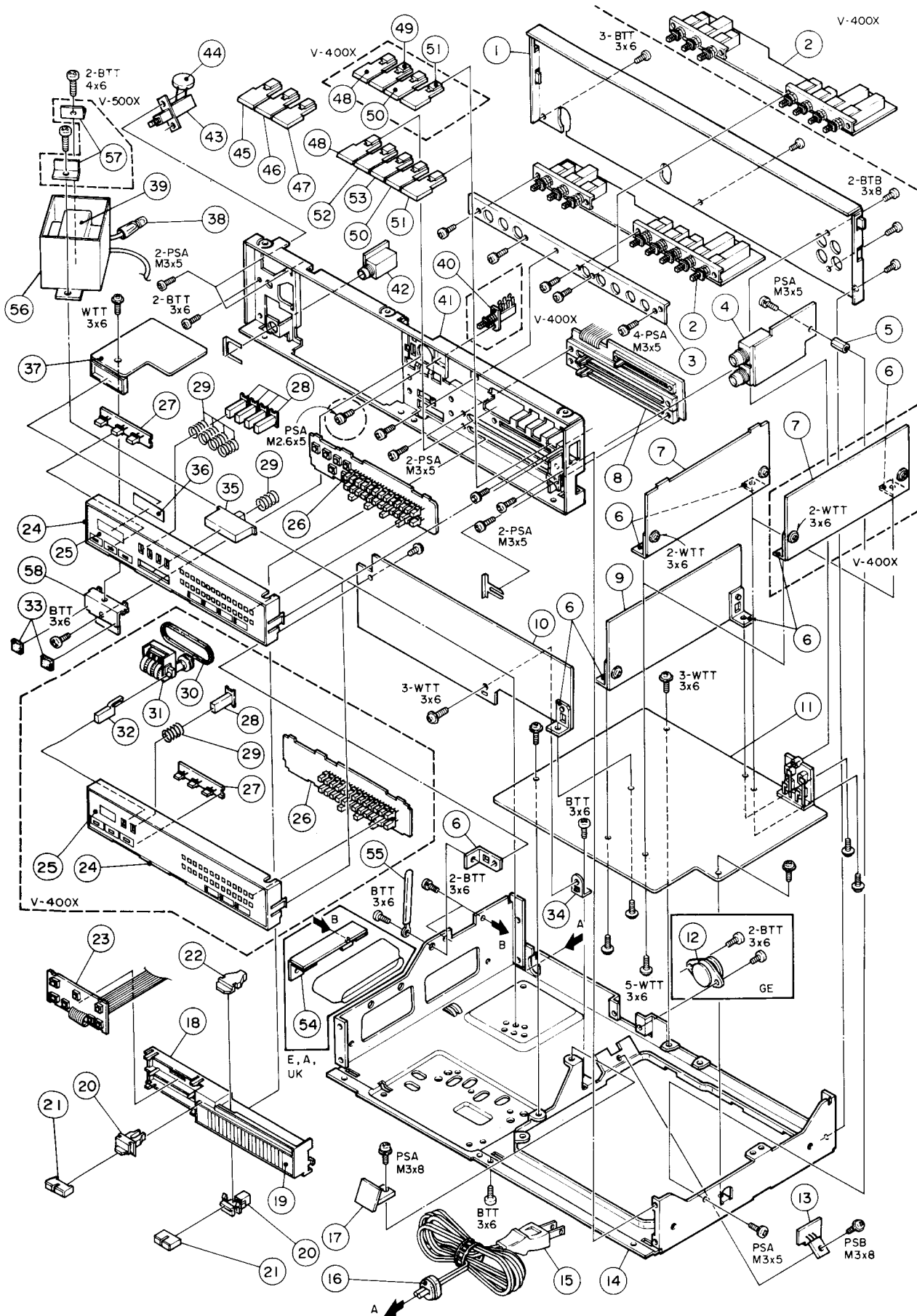
## EXPLODED VIEW-3



| REF. NO. | PARTS NO.   | DESCRIPTION                               | COMMON MODELS | REMARKS |
|----------|-------------|-------------------------------------------|---------------|---------|
| 3 - 1    | *5760458700 | Lever, Eject                              | V-300         |         |
| 3 - 2    | 5760501900  | Spring, Eject Lever; B                    |               |         |
| 3 - 3    | 5760395300  | Switch, Lief                              |               |         |
| 3 - 4    | *5760458800 | Base, Eject Lever                         |               |         |
| 3 - 5    | *5760388900 | Cam, A                                    | V-33          |         |
| 3 - 6    | *5760390800 | Arm, FF                                   | V-33          |         |
| 3 - 7    | 5760391000  | Spring, FF Arm                            | V-33          |         |
| 3 - 8    | 5760389600  | Spring, Cam Stopper; B                    | V-33          |         |
| 3 - 9    | *5760389300 | Stopper, Cam; B                           | V-33          |         |
| 3 - 10   | *5760389000 | Cam, B                                    | V-33          |         |
| 3 - 11   | 5760389700  | Spring, Cam; B                            | V-33          |         |
| 3 - 12   | 5760389500  | Spring, Cam Lever                         | V-33          |         |
| 3 - 13   | *5760389100 | Lever, Cam                                | V-33          |         |
| 3 - 14   | 5760501700  | Spring, Cam Stopper; A                    |               |         |
| 3 - 15   | *5760501600 | Stopper, Cam; A                           |               |         |
| 3 - 16   | *5760502100 | Lever, Eject; D                           |               |         |
| 3 - 17   | 5760541000  | Switch, Lief                              |               |         |
| 3 - 18   | *5760503400 | Bracket, Switch                           |               |         |
| 3 - 19   | 5760535100  | Motor, DC                                 |               |         |
| 3 - 20   | *5760503100 | Collar, Hook Lever                        |               |         |
| 3 - 21   | *5760501800 | Plate, Flywheel-reputation                |               |         |
| 3 - 22   | *5760394200 | Cushion, Motor                            | V-33          |         |
| 3 - 23   | *5760394300 | Screw, Motor Install                      | V-33          |         |
| 3 - 24   | 5760470200  | Damper Assy                               |               |         |
| 3 - 25   | *5760459100 | Holder, Damper                            | V-300         |         |
| 3 - 26   | 5760388400  | Shaft-reputation, Flywheel                | V-33          |         |
| 3 - 27   | 5760388100  | Flywheel, Capstan                         | V-33          |         |
| 3 - 28   | 5760388200  | Belt                                      | V-33          |         |
| 3 - 29   | 5760388500  | Spring, Thurst                            | V-33          |         |
| 3 - 30   | *5760390300 | Clutch                                    | V-33          |         |
| 3 - 31   | *5760390500 | Washer                                    | V-33          |         |
| 3 - 32   | 5760389900  | Spring, Cam; A                            | V-33          |         |
| 3 - 33   | 5760503000  | Spring, Switch                            |               |         |
| 3 - 34   | 5760541100  | Switch, Skelton                           |               |         |
| 3 - 35   | 5760391900  | Pulley Assy, Idler; A                     | V-33          |         |
| 3 - 36   | 5760392000  | Pulley Assy, Idler; C                     | V-33          |         |
| 3 - 37   | 5760388800  | Gear, Cam; B (V-400X)                     | V-33          |         |
| 3 - 38   | 5760388600  | P. Pulley, B                              | V-33          |         |
| 3 - 39   | *5760536800 | PCB, SENSOR (V-500X)                      |               |         |
|          | 5760536900  | Photo Sensor NJL5141EB (V-500X)           |               |         |
|          | 5172236000  | Ceramic Cap. 0.01 $\mu$ F, (C27) (V-500X) |               |         |
| 3 - 40   | *5760541200 | Stud, Sensor PCB (V-500X)                 |               |         |
| 3 - 41   | *5760536300 | Sheet (V-500X)                            |               |         |

Parts marked with \*require longer delivery time.

### EXPLODED VIEW- 4



| REF. NO. | PARTS NO.                                                                                                                                                                        | DESCRIPTION                                                                                                                                                                                                                                                                                                                                         | COMMON MODELS | REMARKS |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|
| 4 - 1    | *5760537701<br>*5760537801<br>*5760537901<br>*5760538001<br>*5760538101<br>*5760538201<br>*5760538301<br>*5760505001<br>*5760505101<br>*5760505201<br>*5760505301<br>*5760505401 | Panel, Rear [J] (V-500X)<br>Panel, Rear [U] (V-500X)<br>Panel, Rear [C] (V-500X)<br>Panel, Rear [GE] (V-500X)<br>Panel, Rear [E] (V-500X)<br>Panel, Rear [UK] (V-500X)<br>Panel, Rear [A] (V-500X)<br>Panel, Rear [U] (V-400X)<br>Panel, Rear [C] (V-400X)<br>Panel, Rear [GE] (V-400X)<br>Panel, Rear [E] (V-400X)<br>Panel, Rear [UK, A] (V-400X) |               |         |
| 4 - 2    | *5760507510<br>*5760507500                                                                                                                                                       | PCB Assy, SW. (V-500X)<br>PCB Assy, SW. (V-400X)                                                                                                                                                                                                                                                                                                    |               |         |
| 4 - 3    | *5760504400                                                                                                                                                                      | Holder, SW. PCB Assy                                                                                                                                                                                                                                                                                                                                |               |         |
| 4 - 4    | *5760506600                                                                                                                                                                      | PCB Assy, MIC AMPL.                                                                                                                                                                                                                                                                                                                                 |               |         |
| 4 - 5    | *5760504700                                                                                                                                                                      | Stud, MIC AMPL. PCB Assy                                                                                                                                                                                                                                                                                                                            |               |         |
| 4 - 6    | *5760504500                                                                                                                                                                      | Bracket, L                                                                                                                                                                                                                                                                                                                                          |               |         |
| 4 - 7    | *5760516700<br>*5760507300                                                                                                                                                       | PCB Assy, DOLBY B/C (V-500X)<br>PCB Assy, DOLBY B (V-400X)                                                                                                                                                                                                                                                                                          |               |         |
| 4 - 8    | *5760506700                                                                                                                                                                      | PCB Assy, VR                                                                                                                                                                                                                                                                                                                                        |               |         |
| 4 - 9    | *5760507400                                                                                                                                                                      | PCB Assy, dbx                                                                                                                                                                                                                                                                                                                                       |               |         |
| 4 - 10   | *5760507010<br>*5760507000                                                                                                                                                       | PCB Assy, CONTROL (V-500X)<br>PCB Assy, CONTROL (V-400X)                                                                                                                                                                                                                                                                                            |               |         |
| 4 - 11   | *5760506210<br>*5760506200                                                                                                                                                       | PCB Assy, REC/PLAY AMPL. (V-500X)<br>PCB Assy, REC/PLAY AMPL. (V-400X)                                                                                                                                                                                                                                                                              |               |         |
| 4 - 12   | △ *5760152000                                                                                                                                                                    | Voltage Selector [GE]                                                                                                                                                                                                                                                                                                                               |               |         |
| 4 - 13   | *5760506300                                                                                                                                                                      | PCB Assy, REGULATOR                                                                                                                                                                                                                                                                                                                                 |               |         |
| 4 - 14   | *5760504001                                                                                                                                                                      | Chassis, Main                                                                                                                                                                                                                                                                                                                                       |               |         |
| 4 - 15   | △ 5760150300<br>△ 5760150500<br>△ 5760150600<br>△ 5760150700                                                                                                                     | Cord, AC Power [J, U, C, GE]<br>Cord, AC Power [E]<br>Cord, AC Power [UK]<br>Cord, AC Power [A]                                                                                                                                                                                                                                                     |               |         |
| 4 - 16   | △ *5760150800<br>△ *5760150900                                                                                                                                                   | Strain, Relief [All except UK]<br>Strain, Relief [UK]                                                                                                                                                                                                                                                                                               |               |         |
| 4 - 17   | *5760506500                                                                                                                                                                      | PCB Assy, TRANSISTOR                                                                                                                                                                                                                                                                                                                                |               |         |
| 4 - 18   | *5760505900                                                                                                                                                                      | Guide, Volume Knob                                                                                                                                                                                                                                                                                                                                  |               |         |
| 4 - 19   | *5760506000                                                                                                                                                                      | Indicator, VR                                                                                                                                                                                                                                                                                                                                       |               |         |
| 4 - 20   | 5760465600                                                                                                                                                                       | Base, Knob                                                                                                                                                                                                                                                                                                                                          |               |         |
| 4 - 21   | 5760465500                                                                                                                                                                       | Knob, RECORD VR                                                                                                                                                                                                                                                                                                                                     |               |         |
| 4 - 22   | 5760506100                                                                                                                                                                       | Knob, OUTPUT VR                                                                                                                                                                                                                                                                                                                                     |               |         |
| 4 - 23   | *5760507100                                                                                                                                                                      | PCB Assy, OPERATION SW.                                                                                                                                                                                                                                                                                                                             |               |         |
| 4 - 24   | *5760505500                                                                                                                                                                      | Base, Meter                                                                                                                                                                                                                                                                                                                                         |               |         |
| 4 - 25   | 5760537200<br>5760505600                                                                                                                                                         | Indicator, Meter (V-500X)<br>Indicator, Meter (V-400X)                                                                                                                                                                                                                                                                                              |               |         |
| 4 - 26   | *5760506810<br>*5760506800                                                                                                                                                       | PCB Assy, METER (V-500X)<br>PCB Assy, METER (V-400X)                                                                                                                                                                                                                                                                                                |               |         |
| 4 - 27   | *5760507200                                                                                                                                                                      | PCB Assy, LED                                                                                                                                                                                                                                                                                                                                       |               |         |
| 4 - 28   | 5760537300<br>5760505700                                                                                                                                                         | Button, MEMORY (V-500X)<br>Button, MEMORY (V-400X)                                                                                                                                                                                                                                                                                                  |               |         |
| 4 - 29   | 5760505800                                                                                                                                                                       | Spring, Compression Coil; C                                                                                                                                                                                                                                                                                                                         |               |         |
| 4 - 30   | 5760393900                                                                                                                                                                       | Belt, Counter (V-400X)                                                                                                                                                                                                                                                                                                                              |               |         |
| 4 - 31   | 5760504200                                                                                                                                                                       | Counter, Tape (V-400X)                                                                                                                                                                                                                                                                                                                              |               |         |
| 4 - 32   | 5760504300                                                                                                                                                                       | Button, RESET (V-400X)                                                                                                                                                                                                                                                                                                                              |               |         |
| 4 - 33   | *5760537600                                                                                                                                                                      | Cushion, Meter; B (V-500X)                                                                                                                                                                                                                                                                                                                          |               |         |
| 4 - 34   | *5760504600                                                                                                                                                                      | Bracket, A                                                                                                                                                                                                                                                                                                                                          |               |         |
| 4 - 35   | 5760537400                                                                                                                                                                       | Button, CPS (V-500X)                                                                                                                                                                                                                                                                                                                                |               |         |
| 4 - 36   | *5760537100                                                                                                                                                                      | Window, Counter (V-500X)                                                                                                                                                                                                                                                                                                                            |               |         |
| 4 - 37   | *5760537000                                                                                                                                                                      | Counter, FL (V-500X)                                                                                                                                                                                                                                                                                                                                |               |         |
| 4 - 38   | *5760151000                                                                                                                                                                      | Terminal [U, C, GE]                                                                                                                                                                                                                                                                                                                                 |               |         |
| 4 - 39   | △ 5760538900<br>△ 5760512900<br>△ 5760513000<br>△ 5760513100<br>△ 5760513200<br>△ 5760513300                                                                                     | Transformer, Power [J] (V-500X)<br>Transformer, Power [U, C]<br>Transformer, Power [GE]<br>Transformer, Power [E]<br>Transformer, Power [UK]<br>Transformer, Power [A]                                                                                                                                                                              |               |         |

(Continued on page 15)

Parts marked with \*require longer delivery time.

[U]: U.S.A.

[A]: AUSTRALIA

[J]: JAPAN

[C]: CANADA

[E]: EUROPE

[GE]: GENERAL EXPORT

[UK]: U.K.

## ASSEMBLING HARDWARE CODING LIST

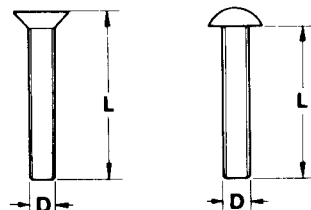
All screws conform to ISO standards, and have crossrecessed heads, unless otherwise noted. ISO screws have the head inscribed with a point as in the figure to the right.



FOR EXAMPLE:

B M 3 x 6

----- Length in mm (L)  
----- Diameter in mm (D) \*  
----- Metric System  
----- Nomenclature



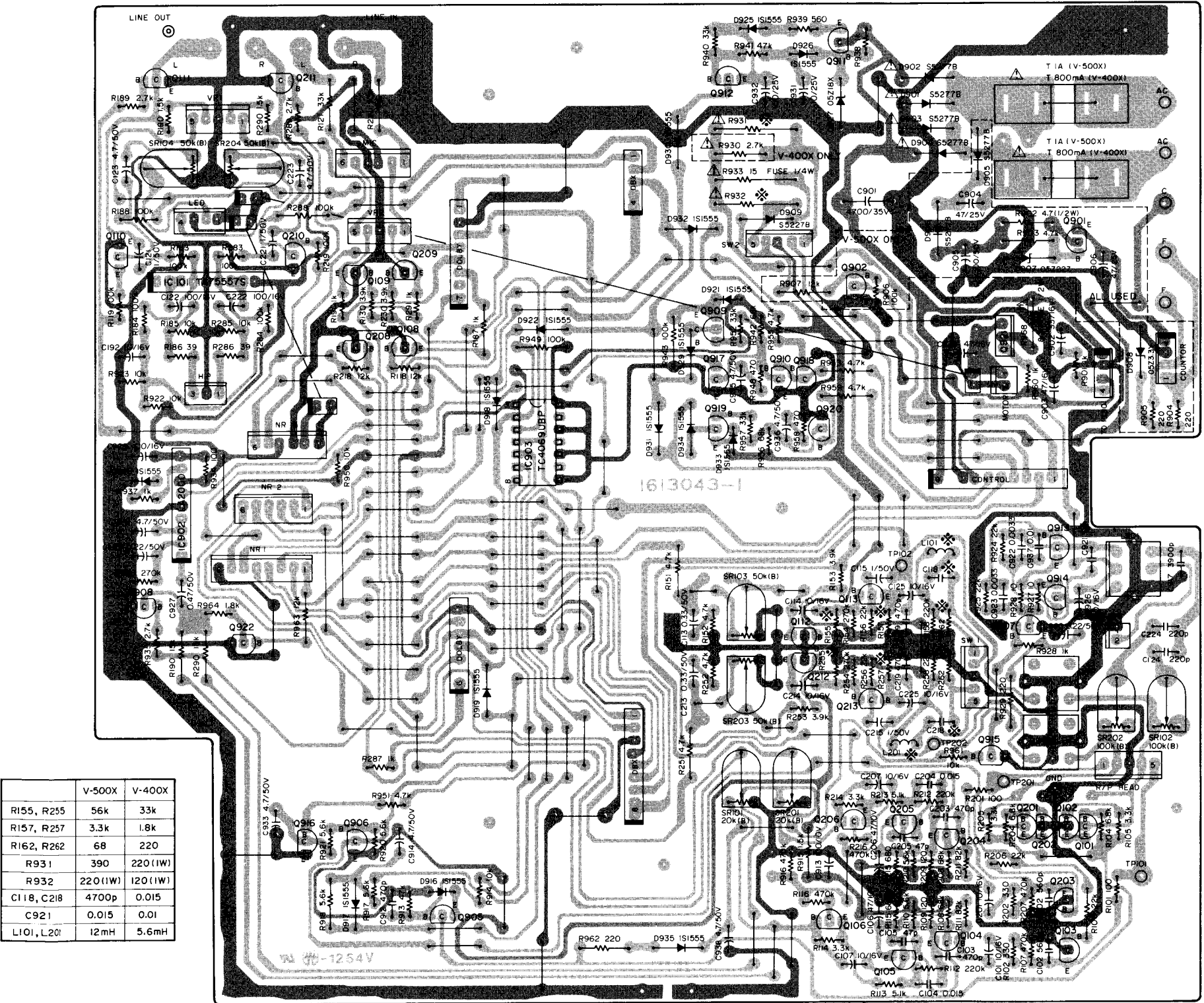
\* Inner dia. for washers and nuts

|               | Code       | Name                            | Type |               | Code       | Name                                | Type |
|---------------|------------|---------------------------------|------|---------------|------------|-------------------------------------|------|
| MACHINE SCREW | <b>R</b>   | Round Head Screw                |      | TAPPING SCREW | <b>BTA</b> | Binding Head Tapping Screw(A Type)  |      |
|               | <b>P</b>   | Pan Head Screw                  |      |               | <b>BTB</b> | Binding Head Tapping Screw(B Type)  |      |
|               | <b>T</b>   | Stove Head Screw (Truss)        |      |               | <b>RTA</b> | Round Head Tapping Screw(A Type)    |      |
|               | <b>B</b>   | Binding Head Screw              |      |               | <b>RTB</b> | Round Head Tapping Screw(B Type)    |      |
|               | <b>F</b>   | Flat Countersunk Head Screw     |      | SETSCREW      | <b>SF</b>  | Hex Socket Setscrew(Flat Point)     |      |
|               | <b>O</b>   | Oval Countersunk Head Screw     |      |               | <b>SC</b>  | Hex Socket Setscrew(Cup Point)      |      |
| WOOD SCREW    | <b>RW</b>  | Round Head Wood Screw           |      |               | <b>SS</b>  | Slotted Socket Setscrew(Flat Point) |      |
| TAPTITE SCREW | <b>PTT</b> | Pan Head Taptite Screw          |      | WASHER        | <b>E</b>   | E-Ring (Retaining Washer)           |      |
|               | <b>WTT</b> | Washer Head Taptite Screw       |      |               | <b>W</b>   | Flat Washer (Plain)                 |      |
| SEMS SCREW    | <b>BSA</b> | Binding Head SEMS Screw(A Type) |      |               | <b>SW</b>  | Lock Washer (Spring)                |      |
|               | <b>BSB</b> | Binding Head SEMS Screw(B Type) |      |               | <b>LWI</b> | Lock Washer (Internal Teeth)        |      |
|               | <b>BSF</b> | Binding Head SEMS Screw(F Type) |      |               | <b>LWE</b> | Lock Washer (External Teeth)        |      |
|               | <b>PSA</b> | Pan Head SEMS Screw(A Type)     |      |               | <b>TW</b>  | Trim Washer (Countersunk)           |      |
|               | <b>PSB</b> | Pan Head SEMS Screw(B Type)     |      | NUT           | <b>N</b>   | Hex Nut                             |      |

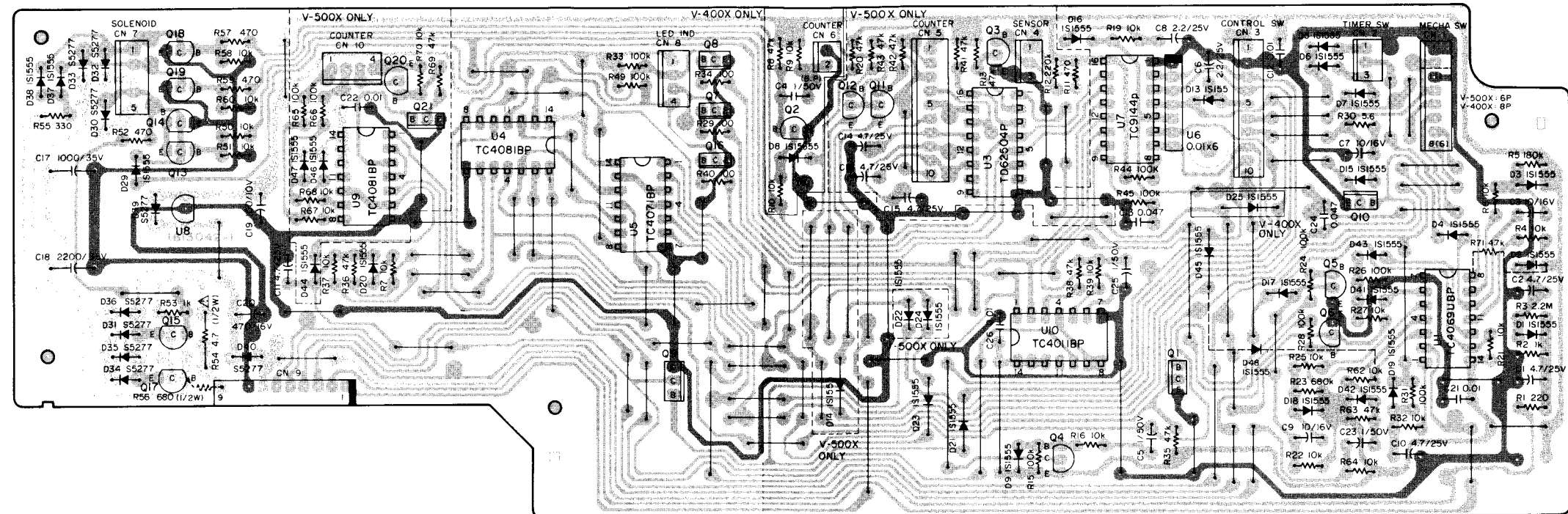
7 PC BOARDS AND PARTS LIST

PC Boards shown viewed from foil side.

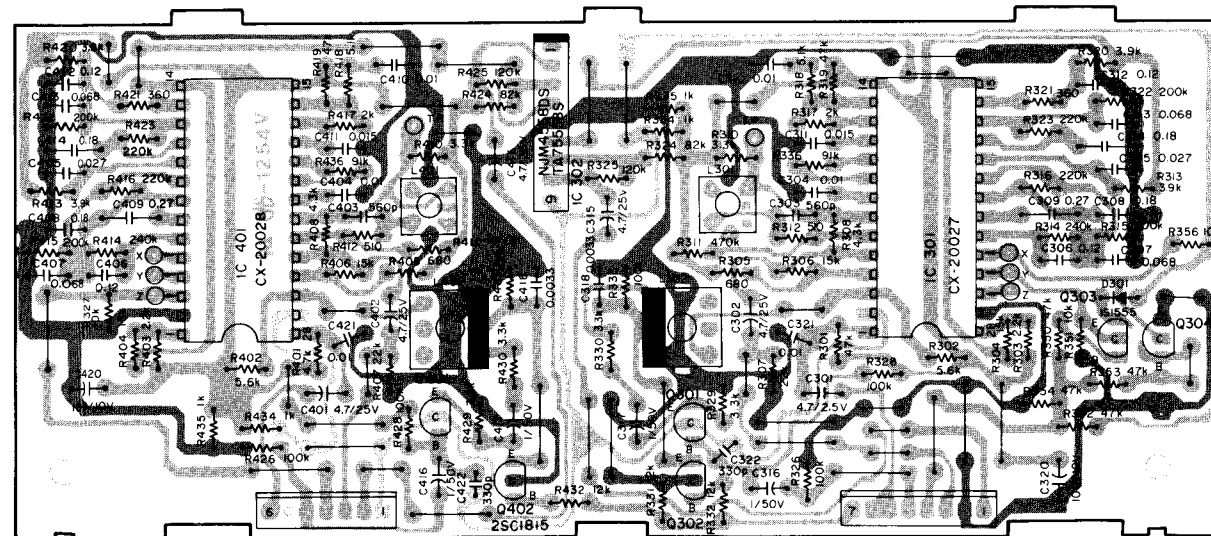
REC/PLAY AMPL. PCB Assy



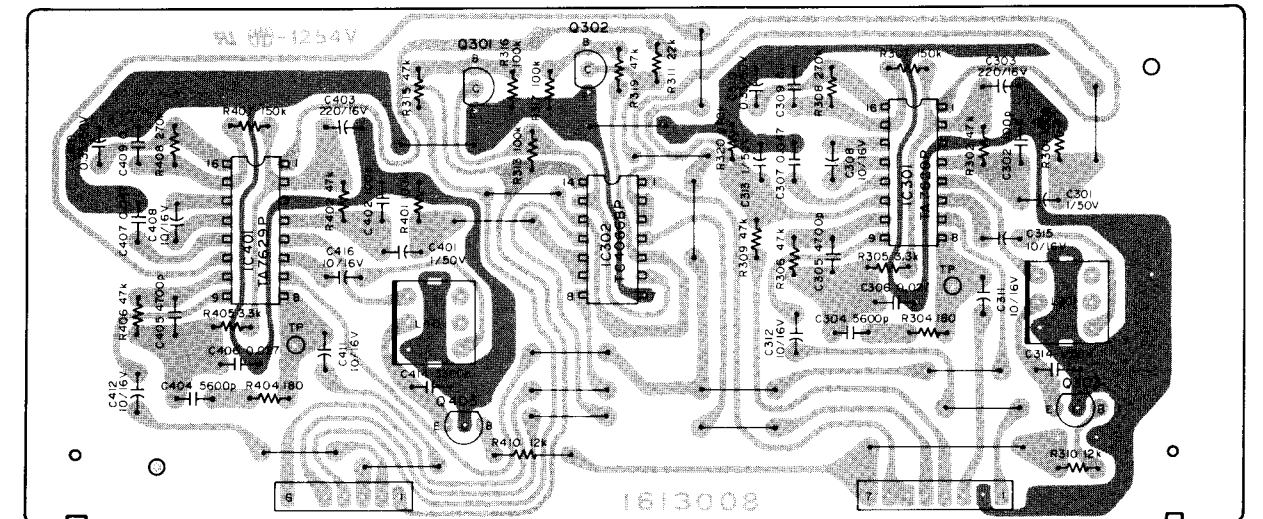
CONTROL PCB Assy



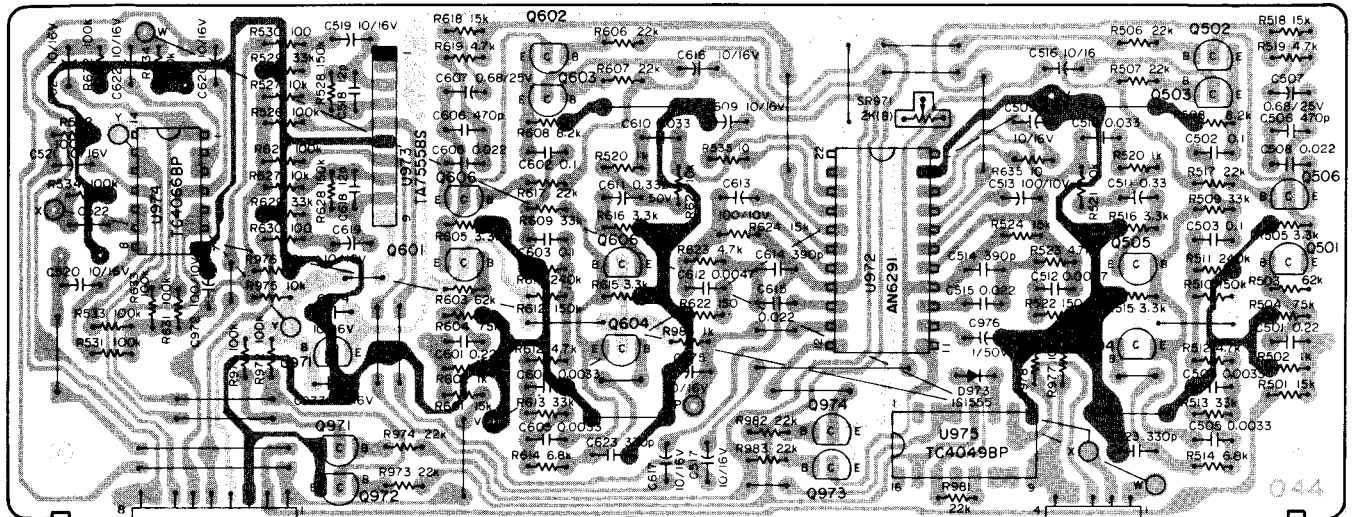
DOLBY B/C PCB Assy (V-500X)



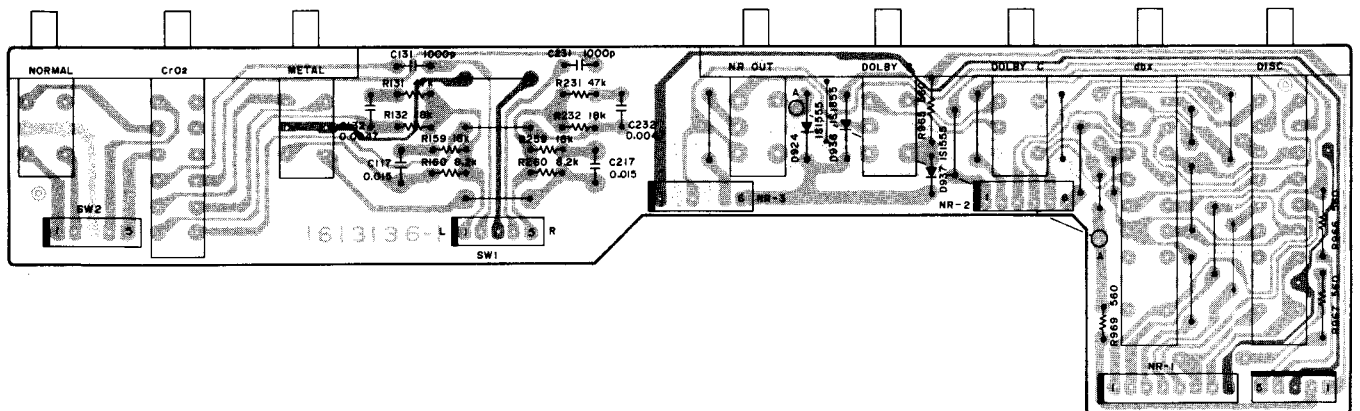
DOLBY B PCB Assy (V-400X)



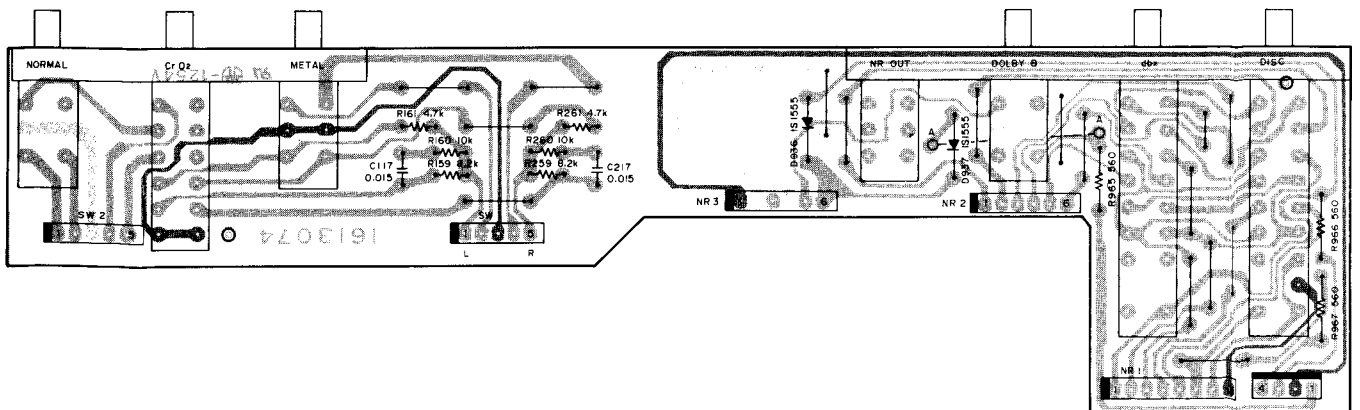
DBX PCB Assy



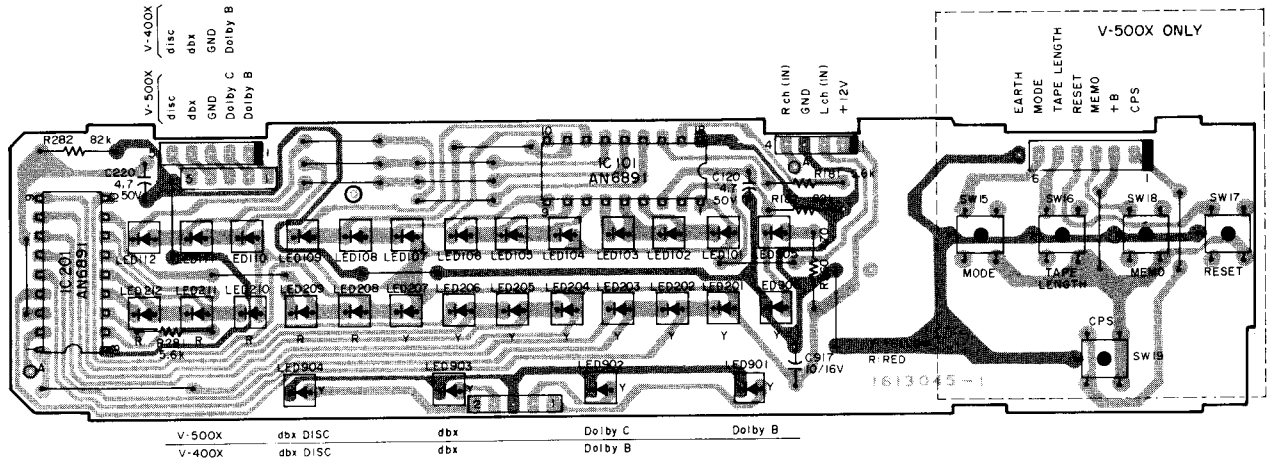
NR SW. PCB Assy (V-500X)



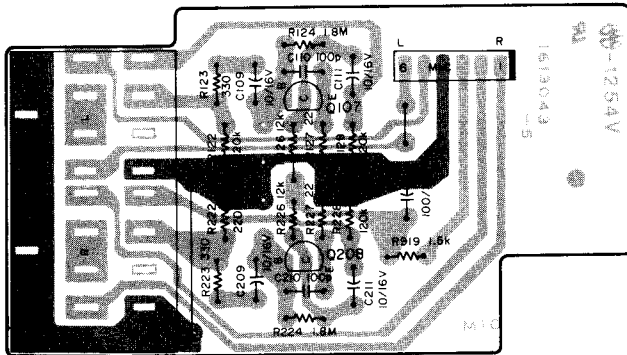
NR SW. PCB Assy (V-400X)



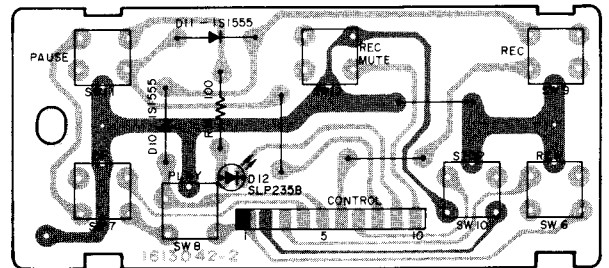
## METER PCB Assy



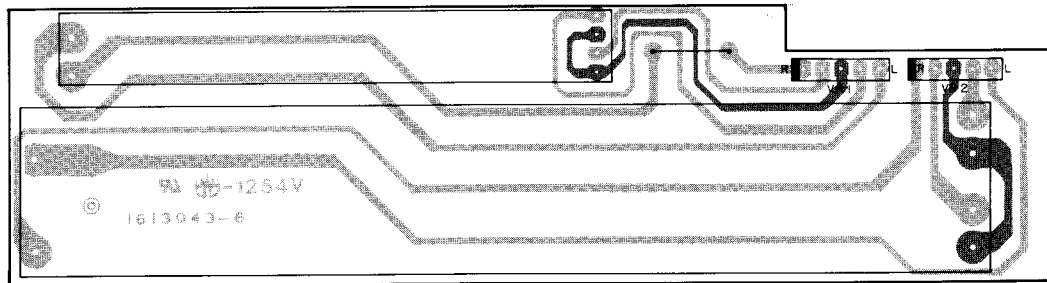
## MIC PCB Assy



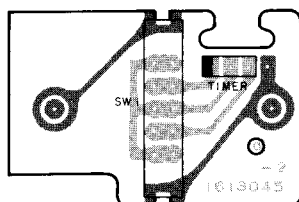
## OPERATION SW. PCB Assy



## VR PCB Assy



## TIMER PCB Assy



## LED PCB Assy



## REC/PLAY AMPL. PCB Assy

| REF. NO.                                                                                    | PARTS NO.   | DESCRIPTION             |
|---------------------------------------------------------------------------------------------|-------------|-------------------------|
|                                                                                             | 5760506210  | PCB Assy (V-500X)       |
|                                                                                             | 5760506200  | PCB Assy (V-400X)       |
|                                                                                             | 5760507600  | PCB                     |
|                                                                                             | IC's        |                         |
| U101                                                                                        | 5760398900  | TA75557S                |
| U902                                                                                        | 5220418000  | LA2000                  |
| U903                                                                                        | 5220019400  | TC4069UBP               |
|                                                                                             | TRANSISTORS |                         |
| Q101, Q201                                                                                  | 5230770100  | 2SC2240BL               |
| Q102, Q202                                                                                  | 5230770100  | 2SC2240BL               |
| Q103, Q203                                                                                  | 5230774900  | 2SC2878A                |
| Q104, Q204                                                                                  | 5230770100  | 2SC2240BL               |
| Q105, Q205                                                                                  | 5230770100  | 2SC2240BL               |
| Q106, Q206                                                                                  | 5760507700  | 2SJ103Y, FET            |
| Q108, Q208                                                                                  | 5145151000  | 2SC1815GR               |
| Q109, Q209                                                                                  | 5145151000  | 2SC1815GR               |
| Q110, Q210                                                                                  | 5145151000  | 2SC1815GR               |
| Q111, Q211                                                                                  | 5145151000  | 2SC1815GR               |
| Q112, Q212                                                                                  | 5230774900  | 2SC2878A                |
| Q113, Q213                                                                                  | 5145151000  | 2SC1815GR               |
| Q901                                                                                        | 5230773800  | 2SC2655Y (V-500X)       |
| Q905, Q906                                                                                  | 5145150000  | 2SA1015GR               |
| Q907, Q908                                                                                  | 5145151000  | 2SC1815GR               |
| Q909                                                                                        | 5145150000  | 2SA1015GR               |
| Q910, Q911                                                                                  | 5145151000  | 2SC1815GR               |
| Q912                                                                                        | 5145150000  | 2SA1015GR               |
| Q213~Q918                                                                                   | 5145151000  | 2SC1815GR               |
| Q919                                                                                        | 5145150000  | 2SA1015GR               |
| Q920, Q922                                                                                  | 5145151000  | 2SC1815GR               |
|                                                                                             | DIODES      |                         |
| D901~D904△                                                                                  | 5760088800  | S5277B                  |
| D905, D906                                                                                  | 5760088800  | S5277B (V-500X)         |
| D907                                                                                        | 5760538400  | 05Z22Z, Zener (V-500X)  |
| D908                                                                                        | 5760538500  | 05Z3.3Y, Zener (V-500X) |
| D916~D919                                                                                   | 5760399200  | 1S1555                  |
| D921~D923                                                                                   | 5760399200  | 1S1555                  |
| D925, D926                                                                                  | 5760399200  | 1S1555                  |
| D927                                                                                        | 5760507800  | 05Z18X, Zener           |
| D928~D935                                                                                   | 5760399200  | 1S1555                  |
|                                                                                             | RESISTORS   |                         |
| All resistors are rated ±5% tolerance and ¼W<br>and are carbon type unless otherwise noted. |             |                         |
| R101, R201                                                                                  | 5240165800  | 100Ω                    |
| R102, R202                                                                                  | 5240167000  | 330Ω                    |
| R104, R204                                                                                  | 5240170200  | 6.8kΩ                   |
| R105, R205                                                                                  | 5240169400  | 3.3kΩ                   |
| R106, R206                                                                                  | 5240171400  | 22kΩ                    |
| R107, R207                                                                                  | 5240174600  | 470kΩ                   |
| R108, R208                                                                                  | 5240172600  | 68kΩ                    |
| R109, R209                                                                                  | 5240166000  | 120Ω                    |
| R110, R210                                                                                  | 5240170000  | 5.6kΩ                   |
| R111, R211                                                                                  | 5240172800  | 82kΩ                    |
| R112, R212                                                                                  | 5240173800  | 220kΩ                   |
| R113, R213                                                                                  | 5240169900  | 5.1kΩ                   |
| R114, R214                                                                                  | 5240169400  | 3.3kΩ                   |
| R115, R215                                                                                  | 5240167800  | 680Ω                    |
| R116, R216                                                                                  | 5240174600  | 470kΩ                   |
| R118, R218                                                                                  | 5240170800  | 12kΩ                    |
| R119, R219                                                                                  | 5240169200  | 2.7kΩ                   |
| R121, R221                                                                                  | 5181518000  | 33kΩ                    |
| R130, R230                                                                                  | 5240169600  | 3.9kΩ                   |
| R151, R251                                                                                  | 5181498000  | 4.7kΩ                   |

| REF. NO.   | PARTS NO.  | DESCRIPTION                               |
|------------|------------|-------------------------------------------|
| R152, R252 | 5240169800 | 4.7k $\Omega$                             |
| R153, R253 | 5240169600 | 3.9k $\Omega$                             |
| R154, R254 | 5240174000 | 270k $\Omega$                             |
| R155, R255 | 5240172400 | 56k $\Omega$ (V-500X)                     |
| R155, R255 | 5240171800 | 33k $\Omega$ (V-400X)                     |
| R156, R256 | 5240171400 | 22k $\Omega$                              |
| R157, R257 | 5240169400 | 3.3k $\Omega$ (V-500X)                    |
| R157, R257 | 5240168800 | 1.8k $\Omega$ (V-400X)                    |
| R158, R258 | 5240173800 | 220k $\Omega$                             |
| R162, R262 | 5240165400 | 68 $\Omega$ (V-500X)                      |
| R162, R262 | 5240166600 | 220 $\Omega$ (V-400X)                     |
| R183, R283 | 5240169000 | 2.2k $\Omega$                             |
| R184, R284 | 5240173000 | 100k $\Omega$                             |
| R185, R285 | 5240170600 | 10k $\Omega$                              |
| R186, R286 | 5240164800 | 39 $\Omega$                               |
| R187, R287 | 5240168200 | 1k $\Omega$                               |
| R188, R288 | 5240173000 | 100k $\Omega$                             |
| R189, R289 | 5240169200 | 2.7k $\Omega$                             |
| R190, R290 | 5240168600 | 1.5k $\Omega$                             |
| R191, R291 | 5240168200 | 1k $\Omega$                               |
| R192, R292 | 5181510000 | 15k $\Omega$                              |
| R901       | 5240168200 | 1k $\Omega$                               |
| R902       | 5760538700 | 4.7 $\Omega$ $\frac{1}{2}W$ Fuse (V-500X) |
| R903       | 5181498000 | 4.7k $\Omega$ (V-500X)                    |
| R904, R905 | 5240166600 | 220 $\Omega$ (V-500X)                     |
| R913       | 5240172200 | 47k $\Omega$                              |
| R914       | 5240170600 | 10k $\Omega$                              |
| R915       | 5181486000 | 1.5k $\Omega$                             |
| R916       | 5240174600 | 470k $\Omega$                             |
| R917       | 5240170000 | 5.6k $\Omega$                             |
| R918       | 5181500000 | 5.6k $\Omega$                             |
| R920, R921 | 5240170000 | 5.6k $\Omega$                             |
| R922, R923 | 5240170600 | 10k $\Omega$                              |
| R924, R925 | 5240171400 | 22k $\Omega$                              |
| R926, R927 | 5240163400 | 10 $\Omega$                               |
| R928       | 5240168200 | 1k $\Omega$                               |
| R929       | 5181466000 | 220 $\Omega$                              |
| R930       | 5181492000 | 2.7k $\Omega$ (V-400X)                    |
| R931       | 5181472000 | 390 $\Omega$ (V-500X)                     |
| R931       | 5760538800 | 220 $\Omega$ 1W (V-400X)                  |
| R932       | 5760538800 | 220 $\Omega$ 1W (V-500X)                  |
| R932       | 5760401900 | 120 $\Omega$ 1W (V-400X)                  |
| R933       | 5760508800 | 15 $\Omega$ Fuse                          |
| R934       | 5240165800 | 100 $\Omega$                              |
| R935       | 5240169200 | 2.7k $\Omega$                             |
| R936       | 5240174000 | 270k $\Omega$                             |
| R937, R938 | 5240168200 | 1k $\Omega$                               |
| R939       | 5240167600 | 560 $\Omega$                              |
| R940       | 5240171800 | 33k $\Omega$                              |
| R941       | 5240172200 | 47k $\Omega$                              |
| R942       | 5240172600 | 68k $\Omega$                              |
| R943       | 5181530000 | 100k $\Omega$                             |
| R948       | 5240167400 | 470 $\Omega$                              |
| R949       | 5181530000 | 100k $\Omega$                             |
| R950       | 5240170600 | 10k $\Omega$                              |
| R951       | 5181498000 | 4.7k $\Omega$                             |
| R952       | 5240171800 | 33k $\Omega$                              |
| R953       | 5181498000 | 4.7k $\Omega$                             |
| R955       | 5240169800 | 4.7k $\Omega$                             |
| R956       | 5240172600 | 68k $\Omega$                              |
| R957       | 5240171800 | 33k $\Omega$                              |
| R958       | 5240167400 | 470 $\Omega$                              |
| R959       | 5240169800 | 4.7k $\Omega$                             |
| R960       | 5240168200 | 1k $\Omega$                               |
| R961       | 5240170600 | 10k $\Omega$                              |
| R962       | 5181466000 | 220 $\Omega$                              |
| R963       | 5181508000 | 12k $\Omega$                              |
| R964       | 5240168800 | 1.8k $\Omega$                             |
| R968       | 5760508900 | 8.2 $\Omega$ $\frac{1}{2}W$ Fuse          |

| REF. NO.                  | PARTS NO.    | DESCRIPTION                    |
|---------------------------|--------------|--------------------------------|
| <b>CAPACITORS</b>         |              |                                |
| C101, C201                | 5260162550   | Elec. 10 $\mu$ F 16V           |
| C102, C202                | 5172221000   | Mylar 560pF                    |
| C103, C203                | 5172220000   | Ceramic 470pF                  |
| C104, C204                | 5171860000   | Mylar 0.015 $\mu$ F            |
| C105, C205                | 5172208000   | Ceramic 47pF                   |
| C106, C206                | 5260165052   | Elec. 47 $\mu$ F 10V           |
| C107, C207                | 5260162550   | Elec. 10 $\mu$ F 16V           |
| C113, C213                | 5260220850   | Elec. 0.33 $\mu$ F 50V         |
| C114, C214                | 5260162550   | Elec. 10 $\mu$ F 16V           |
| C115, C215                | 5260160750   | Elec. 1 $\mu$ F 50V            |
| C118, C218                | 5170368000   | Mylar 4700pF (V-500X)          |
| C118, C218                | 5171860000   | Mylar 0.015 $\mu$ F (V-400X)   |
| C119, C219                | 5172220000   | Ceramic 470pF                  |
| C121, C221                | 5260160750   | Elec. 1 $\mu$ F 50V            |
| C122, C222                | 5260166052   | Elec. 100 $\mu$ F 16V          |
| C123, C223                | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C124, C224                | 5172216000   | Ceramic 220pF                  |
| C125, C225                | 5260162550   | Elec. 10 $\mu$ F 16V           |
| C901                      | △ 5760509000 | Elec. 4700 $\mu$ F 35V         |
| C902                      | 5260164252   | Elec. 33 $\mu$ F 16V           |
| C903                      | 5260165252   | Elec. 47 $\mu$ F 25V           |
| C904                      | 5260165252   | Elec. 47 $\mu$ F 25V (V-500X)  |
| C905                      | 5173048800   | Elec. 100 $\mu$ F 50V (V-500X) |
| C906                      | 5260165252   | Elec. 47 $\mu$ F 25V (V-500X)  |
| C912                      | 5172220000   | Ceramic 470pF                  |
| C913                      | 5260165952   | Elec. 100 $\mu$ F 10V          |
| C914                      | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C915                      | 5760156900   | Polysty. 3900pF 125V           |
| C918, C920                | 5260162550   | Elec. 10 $\mu$ F 16V           |
| C921                      | 5171860000   | Mylar 0.015 $\mu$ F (V-500X)   |
| C921                      | 5171856000   | Mylar 0.01 $\mu$ F (V-400X)    |
| C922, C923                | 5170364000   | Mylar 3300pF                   |
| C925                      | 5260220750   | Elec. 0.22 $\mu$ F 50V         |
| C926                      | 5260166052   | Elec. 100 $\mu$ F 16V          |
| C927                      | 5260160550   | Elec. 0.47 $\mu$ F 50V         |
| C928                      | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C929                      | 5260220750   | Elec. 0.22 $\mu$ F 50V         |
| C931                      | 5260162650   | Elec. 10 $\mu$ F 25V           |
| C932                      | 5260166152   | Elec. 100 $\mu$ F 25V          |
| C933                      | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C935, C936                | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C937                      | 5171856000   | Mylar 0.01 $\mu$ F             |
| C938                      | 5260162150   | Elec. 4.7 $\mu$ F 50V          |
| C939                      | 5260162150   | Elec. 47 $\mu$ F 16V           |
| C941                      | 5173434000   | Ceramic 0.022 $\mu$ F 50V      |
| <b>VARIABLE RESISTORS</b> |              |                                |
| R11, R21                  | 5150233000   | Semi-fixed 20k $\Omega$ (B)    |
| R12, R22                  | 5150096000   | Semi-fixed 100k $\Omega$ (B)   |
| R13, R23                  | 5150094000   | Semi-fixed 50k $\Omega$ (B)    |
| R14, R24                  | 5150094000   | Semi-fixed 50k $\Omega$ (B)    |
| <b>MISCELLANEOUS</b>      |              |                                |
| T101, T201                | 5760398200   | Coil, Bias Trap; 85kHz         |
| T901                      | 5760398100   | Coil, OSC                      |
| L101, L201                | 5760538600   | Coil, 12mH (V-500X)            |
|                           | 5760398400   | Coil, 5.6mH (V-400X)           |
|                           | 5760508400   | Connector Socket, 4P           |
|                           | 5760508500   | Connector Socket, 6P           |
|                           | 5760508600   | Connector Socket, 7P           |
|                           | 5760508700   | Connector Socket, 8P           |
|                           | 5760397400   | Holder, Fuse [E, UK, A]        |
|                           | △ 5760513400 | Fuse, T800mA [E, UK, A]        |

## CONTROL PCB Assy

| REF. NO.                                                                                                   | PARTS NO.  | DESCRIPTION            |
|------------------------------------------------------------------------------------------------------------|------------|------------------------|
|                                                                                                            | 5760507010 | PCB Assy (V-500X)      |
|                                                                                                            | 5760507000 | PCB Assy (V-400X)      |
|                                                                                                            | 5760509100 | PCB                    |
| <b>IC's</b>                                                                                                |            |                        |
| U1                                                                                                         | 5220019400 | TC4069UBP              |
| U3                                                                                                         | 5293000900 | TD62504P (V-500X)      |
| U4                                                                                                         | 5760509200 | TC4081BP               |
| U5                                                                                                         | 5220019500 | TC4071BP               |
| U6                                                                                                         | 5760509300 | 1810461                |
| U7                                                                                                         | 5220019600 | TC9144P                |
| U8                                                                                                         | 5760509400 | TA78L005AM             |
| U9                                                                                                         | 5760509200 | TC4081BP (V-500X)      |
| U10                                                                                                        | 5220019100 | TC4011BP               |
| <b>TRANSISTORS</b>                                                                                         |            |                        |
| Q1                                                                                                         | 5760509500 | 2SC3402                |
| Q2                                                                                                         | 5230770400 | 2SC1815BL (V-400X)     |
| Q3                                                                                                         | 5230770400 | 2SC1815BL (V-500X)     |
| Q4                                                                                                         | 5145150000 | 2SA1015GR              |
| Q5, Q6                                                                                                     | 5230770400 | 2SC1815GR              |
| Q7~Q10                                                                                                     | 5760509500 | 2SC3402                |
| Q11, Q12                                                                                                   | 5230770400 | 2SC1815BL (V-500X)     |
| Q13                                                                                                        | 5230770400 | 2SC1815BL              |
| Q14~Q19                                                                                                    | 5230773800 | 2SC2655Y               |
| <b>DIODES</b>                                                                                              |            |                        |
| D1~D7                                                                                                      | 5760399200 | 1S1555                 |
| D8                                                                                                         | 5760399200 | 1S1555 (V-400X)        |
| D9, D13                                                                                                    | 5760399200 | 1S1555                 |
| D14                                                                                                        | 5760399200 | 1S1555 (V-500X)        |
| D15~D23                                                                                                    | 5760399200 | 1S1555                 |
| D24                                                                                                        | 5760399200 | 1S1555 (V-500X)        |
| D25                                                                                                        | 5760399200 | 1S1555 (V-400X)        |
| D29                                                                                                        | 5760399200 | 1S1555                 |
| D30~D36                                                                                                    | 5760088800 | S5277B                 |
| D37, D38                                                                                                   | 5760399200 | 1S1555                 |
| D39, D40                                                                                                   | 5760088800 | S5277B                 |
| D41~D43                                                                                                    | 5760399200 | 1S1555                 |
| D44                                                                                                        | 5760399200 | 1S1555 (V-500X)        |
| D46, D47                                                                                                   | 5760399200 | 1S1555 (V-500X)        |
| D48                                                                                                        | 5760399200 | 1S1555                 |
| D49                                                                                                        | 5760399200 | 1S1555                 |
| <b>RESISTORS</b>                                                                                           |            |                        |
| All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}W$ and are carbon type unless otherwise noted. |            |                        |
| R1                                                                                                         | 5240166600 | 220 $\Omega$           |
| R2                                                                                                         | 5240168200 | 1k $\Omega$            |
| R3                                                                                                         | 5240176200 | 2.2M $\Omega$          |
| R4                                                                                                         | 5240170600 | 10k $\Omega$           |
| R5                                                                                                         | 5240173600 | 180k $\Omega$          |
| R6                                                                                                         | 5240170600 | 10k $\Omega$           |
| R7                                                                                                         | 5240170600 | 10k $\Omega$ (V-500X)  |
| R8                                                                                                         | 5240172200 | 47k $\Omega$ (V-400X)  |
| R9, R10                                                                                                    | 5240170600 | 10k $\Omega$ (V-400X)  |
| R11                                                                                                        | 5240167400 | 470 $\Omega$ (V-500X)  |
| R12                                                                                                        | 5240173800 | 220k $\Omega$ (V-500X) |
| R13                                                                                                        | 5240172200 | 47k $\Omega$ (V-500X)  |
| R15                                                                                                        | 5240173000 | 100k $\Omega$          |
| R16, R19                                                                                                   | 5240170600 | 10k $\Omega$           |

[U]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT  
[A]: AUSTRALIA [E]: EUROPE [UK]: U.K.  
[J]: JAPAN

## DOLBY B/C PCB Assy (V-500X)

| REF. NO.          | PARTS NO.  | DESCRIPTION                         |
|-------------------|------------|-------------------------------------|
| R21               | 5240170600 | 10k $\Omega$                        |
| R22               | 5240170600 | 10k $\Omega$                        |
| R23               | 5240175000 | 680k $\Omega$                       |
| R24               | 5240173000 | 100k $\Omega$                       |
| R25               | 5240170600 | 10k $\Omega$                        |
| R26               | 5240173000 | 100k $\Omega$                       |
| R27               | 5240170600 | 10k $\Omega$                        |
| R28               | 5240173000 | 100k $\Omega$                       |
| R29               | 5240165800 | 100 $\Omega$                        |
| R30               | 5240162800 | 5.6 $\Omega$                        |
| R31               | 5240173000 | 100k $\Omega$                       |
| R32               | 5240170600 | 10k $\Omega$                        |
| R33               | 5240173000 | 100k $\Omega$                       |
| R34               | 5240165800 | 100 $\Omega$                        |
| R35               | 5240169800 | 4.7k $\Omega$                       |
| R36               | 5240172200 | 47k $\Omega$                        |
| R37               | 5240170600 | 10k $\Omega$                        |
| R38               | 5240172200 | 47k $\Omega$                        |
| R39               | 5240170600 | 10k $\Omega$                        |
| R40               | 5240165800 | 100 $\Omega$                        |
| R41~R43           | 5240172200 | 47k $\Omega$ (V-500X)               |
| R44, R45          | 5240173000 | 100k $\Omega$                       |
| R49               | 5240173000 | 100k $\Omega$                       |
| R50, R51          | 5240170600 | 10k $\Omega$                        |
| R52               | 5240167400 | 470 $\Omega$                        |
| R53               | 5240168200 | 1k $\Omega$                         |
| R54               | 5760509600 | 4.7 $\Omega$ , Fuse $\frac{1}{2}$ W |
| R55               | 5240167000 | 330 $\Omega$                        |
| R56               | 5180078000 | 680 $\Omega$ $\frac{1}{2}$ W        |
| R57               | 5240167400 | 470 $\Omega$                        |
| R58               | 5240170600 | 10k $\Omega$                        |
| R59               | 5240167400 | 470 $\Omega$                        |
| R60, R62          | 5240170600 | 10k $\Omega$                        |
| R63               | 5240172200 | 47k $\Omega$                        |
| R64               | 5240170600 | 10k $\Omega$                        |
| R65, R66          | 5240173000 | 100k $\Omega$ (V-500X)              |
| R67, R68          | 5240170600 | 10k $\Omega$ (V-500X)               |
| R69               | 5240172200 | 47k $\Omega$ (V-500X)               |
| R70               | 5240170600 | 10k $\Omega$ (V-500X)               |
| R71               | 5240169800 | 4.7k $\Omega$                       |
| <b>CAPACITORS</b> |            |                                     |
| C1, C2            | 5260162150 | Elec. 4.6 $\mu$ F 25V               |
| C3                | 5260162550 | Elec. 10 $\mu$ F 16V                |
| C4                | 5260065650 | Elec. 1 $\mu$ F 50V (B.P) (V-400X)  |
| C5                | 5260160750 | Elec. 1 $\mu$ F 50V                 |
| C6                | 5260161150 | Elec. 2.2 $\mu$ F 25V               |
| C7                | 5260162550 | Elec. 10 $\mu$ F 16V                |
| C8                | 5260161150 | Elec. 2.2 $\mu$ F 25V               |
| C9                | 5260162550 | Elec. 10 $\mu$ F 16V                |
| C10, C11          | 5260162150 | Elec. 4.7 $\mu$ F 25V               |
| C12               | 5172236000 | Ceramic 0.01 $\mu$ F                |
| C13               | 5171872000 | Mylar 0.047 $\mu$ F                 |
| C14~C16           | 5260162100 | Elec. 4.7 $\mu$ F 25V (V-500X)      |
| C17               | 5173083000 | Elec. 1000 $\mu$ F 35V              |
| C18               | 5173090000 | Elec. 2200 $\mu$ F 35V              |
| C19               | 5260166052 | Elec. 100 $\mu$ F 10V               |
| C20               | 5173072000 | Elec. 470 $\mu$ F 16V               |
| C21               | 5172236000 | Ceramic 0.01 $\mu$ F                |
| C22               | 5172236000 | Ceramic 0.01 $\mu$ F (V-500X)       |
| C23               | 5260160750 | Elec. 1 $\mu$ F 50V                 |
| C24               | 5171872000 | Mylar 0.047 $\mu$ F                 |
| C25               | 5260160750 | Elec. 1 $\mu$ F 50V                 |
| C26               | 5172236000 | Ceramic 0.01 $\mu$ F                |
| C28               | 5172236000 | Ceramic 0.01 $\mu$ F                |

| REF. NO.                                                         | PARTS NO.  | DESCRIPTION     |
|------------------------------------------------------------------|------------|-----------------|
|                                                                  | 5760516700 | PCB Assy        |
|                                                                  | 5760516800 | PCB             |
| <b>IC's</b>                                                      |            |                 |
| IC301                                                            | 5760516900 | CX20027         |
| IC302                                                            | 5760510200 | TA75558S        |
| IC402                                                            | 5760517000 | CX20028         |
| <b>TRANSISTORS</b>                                               |            |                 |
| Q301, Q401                                                       | 5145151000 | 2SC1815GR       |
| Q302, Q402                                                       | 5145151000 | 2SC1815GR       |
| Q303                                                             | 5145150000 | 2SA1015GR       |
| Q304                                                             | 5145151000 | 2SC1815GR       |
| <b>DIODE</b>                                                     |            |                 |
| D301                                                             | 5760399200 | 1S1555          |
| <b>CARBON RESISTORS</b>                                          |            |                 |
| All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}$ W. |            |                 |
| R301, R401                                                       | 5240172200 | 47k $\Omega$    |
| R302, R402                                                       | 5240170000 | 5.6k $\Omega$   |
| R303, R403                                                       | 5240169000 | 2.2k $\Omega$   |
| R304, R404                                                       | 5240171000 | 15k $\Omega$    |
| R305, R405                                                       | 5240167800 | 680 $\Omega$    |
| R306, R406                                                       | 5240171000 | 15k $\Omega$    |
| R307, R407                                                       | 5240171400 | 22k $\Omega$    |
| R308, R408                                                       | 5240169700 | 4.3k $\Omega$   |
| R310, R410                                                       | 5240169400 | 3.3k $\Omega$   |
| R311, R411                                                       | 5240174600 | 470k $\Omega$   |
| R312, R412                                                       | 5240167500 | 510 $\Omega$    |
| R313, R413                                                       | 5240169600 | 3.9k $\Omega$   |
| R314, R414                                                       | 5240173900 | 240k $\Omega$   |
| R315, R415                                                       | 5240173700 | 220k $\Omega$   |
| R316, R416                                                       | 5240173800 | 220k $\Omega$   |
| R317, R417                                                       | 5240168900 | 2k $\Omega$     |
| R318, R418                                                       | 5240169900 | 5.1k $\Omega$   |
| R319, R419                                                       | 5240172200 | 47k $\Omega$    |
| R320, R420                                                       | 5240169600 | 3.9k $\Omega$   |
| R321, R421                                                       | 5240167100 | 360 $\Omega$    |
| R322, R422                                                       | 5240173700 | 200k $\Omega$   |
| R323, R423                                                       | 5240173800 | 220k $\Omega$   |
| R324, R424                                                       | 5240172800 | 82k $\Omega$    |
| R325, R425                                                       | 5240173200 | 120k $\Omega$   |
| R326, R426                                                       | 5240173000 | 100k $\Omega$   |
| R327, R427                                                       | 5240170600 | 10k $\Omega$    |
| R328, R428                                                       | 5240173000 | 100k $\Omega$   |
| R329, R429                                                       | 5240169400 | 3.3k $\Omega$   |
| R330, R430                                                       | 5240169400 | 3.3k $\Omega$   |
| R331, R431                                                       | 5240173800 | 220k $\Omega$   |
| R332, R432                                                       | 5240170800 | 12k $\Omega$    |
| R333, R433                                                       | 5240173000 | 100k $\Omega$   |
| R334, R434                                                       | 5240168200 | 1k $\Omega$     |
| R335, R435                                                       | 5240168200 | 1k $\Omega$     |
| R336, R436                                                       | 5760517200 | 91k $\Omega$ 2% |
| R350                                                             | 5240172200 | 47k $\Omega$    |
| R351                                                             | 5240170600 | 10k $\Omega$    |
| R352~R354                                                        | 5240172200 | 47k $\Omega$    |
| R356                                                             | 5240170600 | 10k $\Omega$    |

| REF. NO.             | PARTS NO.  | DESCRIPTION                   |
|----------------------|------------|-------------------------------|
| <b>CAPACITORS</b>    |            |                               |
| C301, C401           | 5260162150 | Elec. 4.7 $\mu$ F 25V         |
| C302, C402           | 5260162150 | Elec. 4.7 $\mu$ F 25V         |
| C303, C403           | 5263107210 | Polysty. 560pF                |
| C304, C404           | 5171856000 | Mylar 0.01 $\mu$ F 50V 5%     |
| C305, C405           | 5171866000 | Mylar 0.027 $\mu$ F 50V 5%    |
| C306, C406           | 5263162323 | Metalized 0.12 $\mu$ F 50V 5% |
| C307, C407           | 5171876000 | Mylar 0.068 $\mu$ F 50V 5%    |
| C308, C408           | 5263162523 | Metalized 0.18 $\mu$ F 50V 5% |
| C309, C409           | 5263162723 | Metalized 0.27 $\mu$ F 50V 5% |
| C310, C410           | 5171856000 | Mylar 0.01 $\mu$ F 50V 5%     |
| C311, C411           | 5171860000 | Mylar 0.015 $\mu$ F 50V 5%    |
| C312, C412           | 5263162323 | Metalized 0.12 $\mu$ F 50V 5% |
| C313, C413           | 5171876000 | Mylar 0.068 $\mu$ F 50V 5%    |
| C314, C414           | 5263162523 | Metalized 0.18 $\mu$ F 50V 5% |
| C315, C415           | 5260162150 | Elec. 4.7 $\mu$ F 25V         |
| C316, C416           | 5260160750 | Elec. 1 $\mu$ F 50V           |
| C317, C417           | 5260160750 | Elec. 1 $\mu$ F 50V           |
| C318, C481           | 5170364000 | Mylar 3300pF                  |
| C320, C420           | 5260165952 | Elec. 100 $\mu$ F 10V         |
| C321, C421           | 5172218000 | Ceramic 330pF 50V 5%          |
| <b>MISCELLANEOUS</b> |            |                               |
| L301, L401           | 5760517100 | Coil                          |
| L302, L402           | 5760398300 | Filter, Dolby                 |
|                      | 5760398800 | Pin, Connector                |

| REF. NO.             | PARTS NO.  | DESCRIPTION            |
|----------------------|------------|------------------------|
| <b>CAPACITORS</b>    |            |                        |
| C301, C401           | 5260160750 | Elec. 1 $\mu$ F 50V    |
| C302, C402           | 5172212000 | Ceramic 100pF          |
| C303, C403           | 5173054800 | Elec. 220 $\mu$ F 16V  |
| C304, C404           | 5170370000 | Mylar 5600pF           |
| C305, C405           | 5170368000 | Mylar 4700pF           |
| C306, C406           | 5171866000 | Mylar 0.027 $\mu$ F    |
| C307, C407           | 5171872000 | Mylar 0.047 $\mu$ F    |
| C308, C408           | 5260162550 | Elec. 10 $\mu$ F 16V   |
| C309, C409           | 5263162223 | Metalized 0.1 $\mu$ F  |
| C310, C410           | 5260220850 | Elec. 0.33 $\mu$ F 50V |
| C311, C411           | 5260162550 | Elec. 10 $\mu$ F 16V   |
| C312, C412           | 5260162550 | Elec. 10 $\mu$ F 16V   |
| C313                 | 5260160750 | Elec. 1 $\mu$ F 50V    |
| C314, C414           | 5170364000 | Mylar 3300pF           |
| C315, C415           | 5260162550 | Elec. 10 $\mu$ F 16V   |
| <b>MISCELLANEOUS</b> |            |                        |
| L301, L401           | 5760398300 | Filter, Dolby          |
|                      | 5760398800 | Pin Connect            |
|                      | 5760509800 | Plug, Connect (6P)     |
|                      | 5760509900 | Plug, Connector (7P)   |

## DOLBY B PCB Assy (V-400X)

| REF. NO.                                                         | PARTS NO.  | DESCRIPTION   |
|------------------------------------------------------------------|------------|---------------|
|                                                                  | 5760507300 | PCB Assy      |
|                                                                  | 5760509700 | PCB           |
| <b>IC's</b>                                                      |            |               |
| IC301, IC401                                                     | 5220412600 | TA7629P       |
| IC302                                                            | 5220013400 | TC4066BP      |
| <b>TRANSISTORS</b>                                               |            |               |
| Q301~Q304                                                        | 5145151000 | 2SC1815GR     |
| <b>CARBON RESISTORS</b>                                          |            |               |
| All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}W$ . |            |               |
| R301, R401                                                       | 5240173000 | 100k $\Omega$ |
| R302, R402                                                       | 5240172200 | 47k $\Omega$  |
| R304, R404                                                       | 5240166400 | 180 $\Omega$  |
| R305, R405                                                       | 5240169400 | 3.3k $\Omega$ |
| R306, R406                                                       | 5240172200 | 47k $\Omega$  |
| R307, R407                                                       | 5240173400 | 150k $\Omega$ |
| R308, R408                                                       | 5240174000 | 270k $\Omega$ |
| R309                                                             | 5240171600 | 27k $\Omega$  |
| R310, R410                                                       | 5240170800 | 12k $\Omega$  |
| R311                                                             | 5240171400 | 22k $\Omega$  |
| R313                                                             | 5240173000 | 100k $\Omega$ |
| R315                                                             | 5240172200 | 47k $\Omega$  |
| R316, R317                                                       | 5240173000 | 100k $\Omega$ |
| R319                                                             | 5240172200 | 47k $\Omega$  |
| R320                                                             | 5240174000 | 270k $\Omega$ |

## DBX PCB Assy

| REF. NO.                                                         | PARTS NO.  | DESCRIPTION     |
|------------------------------------------------------------------|------------|-----------------|
|                                                                  | 5760507400 | PCB Assy        |
|                                                                  | 5760510000 | PCB             |
| <b>IC's</b>                                                      |            |                 |
| U971                                                             | 5760509400 | TA78L005P       |
| U972                                                             | 5760510100 | AN6291          |
| U973                                                             | 5760510200 | TA75558S        |
| U974                                                             | 5220013400 | TC4066BP        |
| U975                                                             | 5220020000 | TC4049BP        |
| <b>TRANSISTORS</b>                                               |            |                 |
| Q501~Q506                                                        | 5145151000 | 2SC1815GR       |
| Q601~Q606                                                        | 5145151000 | 2SC1815GR       |
| Q971, Q972                                                       | 5145151000 | 2SC1815GR       |
| Q973, Q974                                                       | 5145150000 | 2SA1015GR       |
| <b>DIODE</b>                                                     |            |                 |
| D973                                                             | 5760399200 | 1S1555          |
| <b>CARBON RESISTORS</b>                                          |            |                 |
| All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}W$ . |            |                 |
| R501, R601                                                       | 5240231000 | 15k $\Omega$ 2% |
| R502, R602                                                       | 5240228200 | 1k $\Omega$ 2%  |
| R503, R603                                                       | 5240172500 | 62k $\Omega$    |
| R504, R604                                                       | 5240172700 | 75k $\Omega$    |
| R505, R605                                                       | 5240169400 | 3.3k $\Omega$   |
| R506, R606                                                       | 5240171400 | 22k $\Omega$    |
| R507, R607                                                       | 5240171400 | 22k $\Omega$    |
| R508, R608                                                       | 5240170800 | 8.2k $\Omega$   |
| R509, R609                                                       | 5240171800 | 33k $\Omega$    |
| R510, R610                                                       | 5240173400 | 150k $\Omega$   |

## NR SW. PCB Assy

| REF. NO.             | PARTS NO.  | DESCRIPTION                |
|----------------------|------------|----------------------------|
| R511, R611           | 5240173900 | 240k $\Omega$              |
| R512, R612           | 5240169800 | 4.7k $\Omega$              |
| R513, R613           | 5240171800 | 33k $\Omega$               |
| R514, R614           | 5240170200 | 6.8k $\Omega$              |
| R515, R615           | 5240169400 | 3.3k $\Omega$              |
| R516, R616           | 5240169400 | 3.3k $\Omega$              |
| R517, R617           | 5240171400 | 22k $\Omega$               |
| R518, R618           | 5240171000 | 15k $\Omega$               |
| R519, R619           | 5240169800 | 4.7k $\Omega$              |
| R520, R620           | 5240168200 | 1k $\Omega$                |
| R521, R621           | 5240170600 | 10k $\Omega$               |
| R522, R622           | 5240166200 | 150 $\Omega$               |
| R523, R623           | 5240169800 | 4.7k $\Omega$              |
| R524, R624           | 5240171000 | 15k $\Omega$               |
| R526, R626           | 5240173000 | 100k $\Omega$              |
| R527, R627           | 5240230500 | 9.1k $\Omega$ 2%           |
| R528, R628           | 5240233400 | 150k $\Omega$ 2%           |
| R529, R629           | 5240171800 | 33k $\Omega$               |
| R530, R630           | 5240165800 | 100 $\Omega$               |
| R531, R631           | 5240173000 | 100k $\Omega$              |
| R532, R632           | 5240173000 | 100k $\Omega$              |
| R533, R633           | 5240173000 | 100k $\Omega$              |
| R534, R634           | 5240173000 | 100k $\Omega$              |
| R971, R972           | 5240173000 | 100k $\Omega$              |
| R973, R974           | 5240171400 | 22k $\Omega$               |
| R975, R976           | 5240170600 | 10k $\Omega$               |
| R977, R978           | 5240173000 | 100k $\Omega$              |
| R981~R983            | 5240171400 | 22k $\Omega$               |
| R984                 | 5760510600 | 1k $\Omega$ 1%             |
| <b>CAPACITORS</b>    |            |                            |
| C501, C601           | 5263162623 | Metarized 0.22 $\mu$ F     |
| C502, C602           | 5263162223 | Metarized 0.1 $\mu$ F      |
| C503, C603           | 5263162223 | Metarized 0.1 $\mu$ F      |
| C504, C604           | 5170364000 | Mylar 3300pF               |
| C505, C605           | 5170364000 | Mylar 3300pF               |
| C506, C606           | 5263107010 | Polypro. 470pF             |
| C507, C607           | 5263163213 | Metarized 0.68 $\mu$ F     |
| C508, C608           | 5171864000 | Mylar 0.022 $\mu$ F        |
| C509, C609           | 5760510700 | Elec. 10 $\mu$ F 16V       |
| C510, C610           | 5171868000 | Mylar 0.033 $\mu$ F        |
| C511, C611           | 5263162823 | Metarized 0.33 $\mu$ F     |
| C512, C612           | 5170368000 | Mylar 4700pF               |
| C513, C613           | 5260165952 | Elec. 100 $\mu$ F 10V      |
| C514, C614           | 5263106800 | Polypro. 390pF             |
| C515, C615           | 5171864000 | Mylar 0.022 $\mu$ F        |
| C516, C616           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C517, C617           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C518, C618           | 5173407000 | Ceramic 12pF               |
| C519, C619           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C520, C620           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C521, C621           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C522, C622           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| C972                 | 5260165952 | Elec. 100 $\mu$ F 10V      |
| C973, C945           | 5260162550 | Elec. 10 $\mu$ F 16V       |
| <b>MISCELLANEOUS</b> |            |                            |
| SR791                | 5760510500 | Semi-fixed 2k $\Omega$ (B) |
|                      | 5760510300 | Plug, Connector (4P)       |
|                      | 5760510400 | Plug, Connector (8P)       |

| REF. NO.                                                         | PARTS NO.  | DESCRIPTION            |
|------------------------------------------------------------------|------------|------------------------|
|                                                                  | 5760507510 | PCB Assy (V-500X)      |
|                                                                  | 5760507500 | PCB Assy (V-400X)      |
|                                                                  | 5760512300 | PCB                    |
| <b>DIODES</b>                                                    |            |                        |
| D924                                                             | 5760399200 | 1S1555 (V-500X)        |
| D936, D937                                                       | 5760399200 | 1S1555                 |
| <b>CARBON RESISTORS</b>                                          |            |                        |
| All resistors are rated $\pm 5\%$ tolerance and $\frac{1}{4}W$ . |            |                        |
| R131, R231                                                       | 5240172200 | 47k $\Omega$ (V-500X)  |
| R132, R232                                                       | 5240171200 | 18k $\Omega$ (V-500X)  |
| R159, R259                                                       | 5240171200 | 18k $\Omega$ (V-500X)  |
| R159, R259                                                       | 5240170400 | 8.2k $\Omega$ (V-400X) |
| R160, R260                                                       | 5240170400 | 8.2k $\Omega$ (V-500X) |
| R160, R260                                                       | 5240170600 | 10k $\Omega$ (V-400X)  |
| R161, R261                                                       | 5240169800 | 4.7k $\Omega$ (V-400X) |
| R965~R967                                                        | 5240167600 | 560 $\Omega$           |
| R969                                                             | 5240167600 | 560 $\Omega$ (V-500X)  |
| <b>CAPACITORS</b>                                                |            |                        |
| C117, C217                                                       | 5171860000 | Mylar 0.015 $\mu$ F    |
| C131, C231                                                       | 5170352000 | Mylar 1000pF (V-500X)  |
| C132, C232                                                       | 5170368000 | Mylar 4700pF (V-500X)  |
| <b>MISCELLANEOUS</b>                                             |            |                        |
|                                                                  | 5760512400 | Push Switch            |
|                                                                  | 5760512500 | Push Switch            |
|                                                                  | 5760540300 | Push Switch (V-500X)   |

## METER PCB Assy

| REF. NO.                | PARTS NO.  | DESCRIPTION                     |
|-------------------------|------------|---------------------------------|
|                         | 5760506810 | PCB Assy (V-500X)               |
|                         | 5760506800 | PCB Assy (V-400X)               |
|                         | 5760511500 | PCB                             |
| <b>IC's</b>             |            |                                 |
| IC101, IC201            | 5760511600 | AN6891                          |
| <b>LEDs</b>             |            |                                 |
| LED101~107              | 5760461900 | LN350, RED                      |
| LED201~207              | 5760461900 | LN350, RED                      |
| LED108~112              | 5760461800 | LN250WP, YELLOW                 |
| LED208~212              | 5760461800 | LN250WP, YELLOW                 |
| LED901                  | 5760461900 | LN250, RED (V-500X)             |
| LED902~906              | 5760461900 | LN250, RED                      |
| <b>CARBON RESISTORS</b> |            |                                 |
| R181, R281              | 5181500000 | 5.6k $\Omega$ 5% $\frac{1}{4}W$ |
| R182, R282              | 5181528000 | 82k $\Omega$ 5% $\frac{1}{4}W$  |
| R960                    | 5181474000 | 470 $\Omega$ 5% $\frac{1}{4}W$  |
| <b>CAPACITORS</b>       |            |                                 |
| C120, C220              | 5760462000 | Elec. 4.7 $\mu$ F 25V           |
| C917                    | 5760511700 | Elec. 10 $\mu$ F 16V            |
| <b>MISCELLANEOUS</b>    |            |                                 |
| SW15~SW19               | 5760512100 | Switch, Tact (V-500X)           |

## MIC PCB Assy

| REF. NO.                                                     | PARTS NO.  | DESCRIPTION           |
|--------------------------------------------------------------|------------|-----------------------|
|                                                              | 5760506600 | PCB Assy              |
|                                                              | 5760511200 | PCB                   |
| <b>TRANSISTORS</b>                                           |            |                       |
| Q107, Q207                                                   | 5042366000 | 2SC732BL              |
| <b>CARBON RESISTORS</b>                                      |            |                       |
| All resistors are rated $\pm 5\%$ tolerance $\frac{1}{4}W$ . |            |                       |
| R122, R222                                                   | 5240173800 | 220k $\Omega$         |
| R123, R223                                                   | 5240167000 | 330 $\Omega$          |
| R124, R224                                                   | 5240176000 | 1.8M $\Omega$         |
| R126, R226                                                   | 5240170800 | 12k $\Omega$          |
| R127, R227                                                   | 5240164200 | 22 $\Omega$           |
| R128, R228                                                   | 5240173200 | 120k $\Omega$         |
| R919                                                         | 5240168200 | 1k $\Omega$           |
| <b>CAPACITORS</b>                                            |            |                       |
| C109, C209                                                   | 5260162550 | Elec. 10 $\mu F$ 16V  |
| C110, C210                                                   | 5172212000 | Ceramic 100pF         |
| C111, C211                                                   | 5260162550 | Elec. 10 $\mu F$ 16V  |
| C916                                                         | 5260166052 | Elec. 100 $\mu F$ 16V |

## VR PCB Assy

| REF. NO. | PARTS NO.  | DESCRIPTION                    |
|----------|------------|--------------------------------|
|          | 5760506700 | PCB Assy                       |
|          | 5760511300 | PCB                            |
| VR1      | 5760511400 | Volume, Slide 20k $\Omega$ (A) |
| VR2      | 5760464600 | Volume, Slide 50k $\Omega$ (A) |

## OPERATION SW PCB Assy

| REF. NO. | PARTS NO.  | DESCRIPTION  |
|----------|------------|--------------|
|          | 5760507100 | PCB Assy     |
|          | 5760512000 | PCB          |
| D10, D11 | 5760399200 | Diode 1S1555 |
| D12      | 5225006400 | LED SLP235B  |
| R14      | 5240165800 | 100 $\Omega$ |
| SW6~SW12 | 5760512100 | Switch, Tact |

## TIMER PCB Assy

| REF. NO. | PARTS NO.  | DESCRIPTION   |
|----------|------------|---------------|
|          | 5760506900 | PCB Assy      |
|          | 5760511800 | PCB           |
| SW1      | 5760511900 | Switch, Slide |

## LED PCB Assy

| REF. NO. | PARTS NO.  | DESCRIPTION                             |
|----------|------------|-----------------------------------------|
|          | 5760507200 | PCB Assy                                |
|          | 5760512200 | PCB                                     |
| D26~D28  | 5225012200 | LED JLP173, RED                         |
| R46~R48  | 5240027020 | Resistor 330 $\Omega$ 5% $\frac{1}{4}W$ |

## REGULATOR PCB Assy (PC Board Omitted)

| REF. NO. | PARTS NO.           | DESCRIPTION |
|----------|---------------------|-------------|
|          | 5760506300          | PCB Assy    |
|          | 5760510800          | PCB         |
| IC901    | $\Delta$ 5760399000 | IC AN7812R  |

## HEADPHONE PCB Assy (PC Board Omitted)

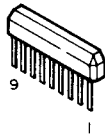
| REF. NO. | PARTS NO.  | DESCRIPTION |
|----------|------------|-------------|
|          | 5760506400 | PCB Assy    |
|          | 5760510900 | PCB         |
|          | 5760464800 | Phone Jack  |

## TR PCB Assy (PC Board Omitted)

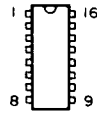
| REF. NO. | PARTS NO.           | DESCRIPTION         |
|----------|---------------------|---------------------|
|          | 5760506500          | PCB Assy            |
|          | 5760511000          | PCB                 |
| Q921     | $\Delta$ 5760511100 | Transistor 2SD1266Q |

## SEMICONDUCTOR ELECTRODES

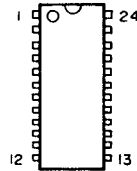
LA2000  
TA75557S  
NJM4560S



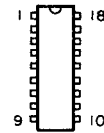
TC4049BP  
TD62504P  
TC9144P  
TA7629P  
(TOP VIEW)



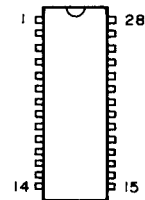
NE 654  
(TOP VIEW)



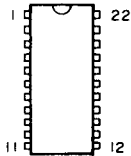
NE 652  
(TOP VIEW)



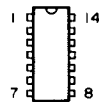
20028  
20027  
(TOP VIEW)



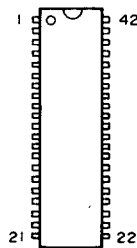
AN6291  
(TOP VIEW)



TC 4066UBP  
TC 4081BP  
TC 4071BP  
TC 4011BP  
TC 4069UBP  
(TOP VIEW)



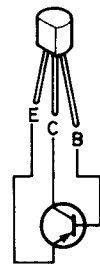
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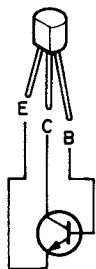
AN7812R



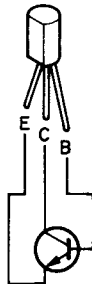
2SA1015GR



2SC732  
2SC1815  
2SC2240



2SC2655



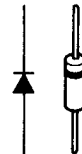
2SD1266  
2SD880



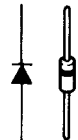
RD10EB3  
05Z18X  
05Z22Z  
05Z3.3Y



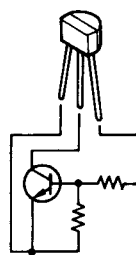
S5277B



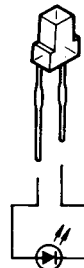
ISS53  
IS1555



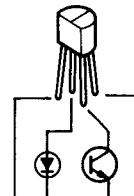
2SC3402



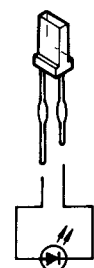
LN250WP  
LN350WP



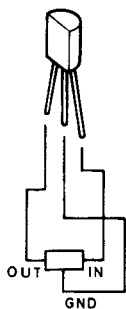
NJL5141EB



SLP173B



TA78L005AP



# V-500X/V-400X

## TEAC®

### ティアック株式会社

本社 営業部 180・東京都武蔵野市中町3-7-3

電話 武蔵野 (0422) 53-1111代

製品についてのお問い合わせ  
サービスに関するお問い合わせ

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| 神戸出張所  | 650・神戸市中央区山本通り3-1-3谷ロマンション内    | 電話 神戸 (078) 242-2458代  |
| 岡山出張所  | 700・岡山市十日市中町1番40号              | 電話 岡山 (0862) 25-8601代  |
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サービスに関するお問い合わせ

本社サービス課 180・東京都武蔵野市中町3-7-3  
沖縄サービスセンター 901-22・沖縄県宜野湾市宇喜友名2-2-9

電話 武蔵野 (0422) 53-3242代  
電話 沖縄 (09889) 2-2020代

技術的なお問い合わせ

・テーブルデッキ相談室 180・東京都武蔵野市中町3-7-3

電話 武蔵野 (0422) 53-9213代

### TEAC CORPORATION

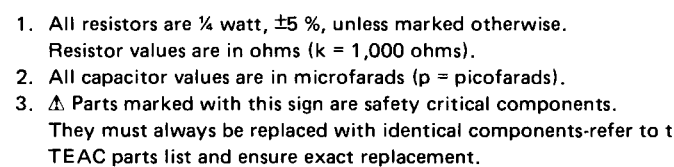
3-7-3 NAKA-CHO MUSASHINO TOKYO PHONE (0422) 53-1111

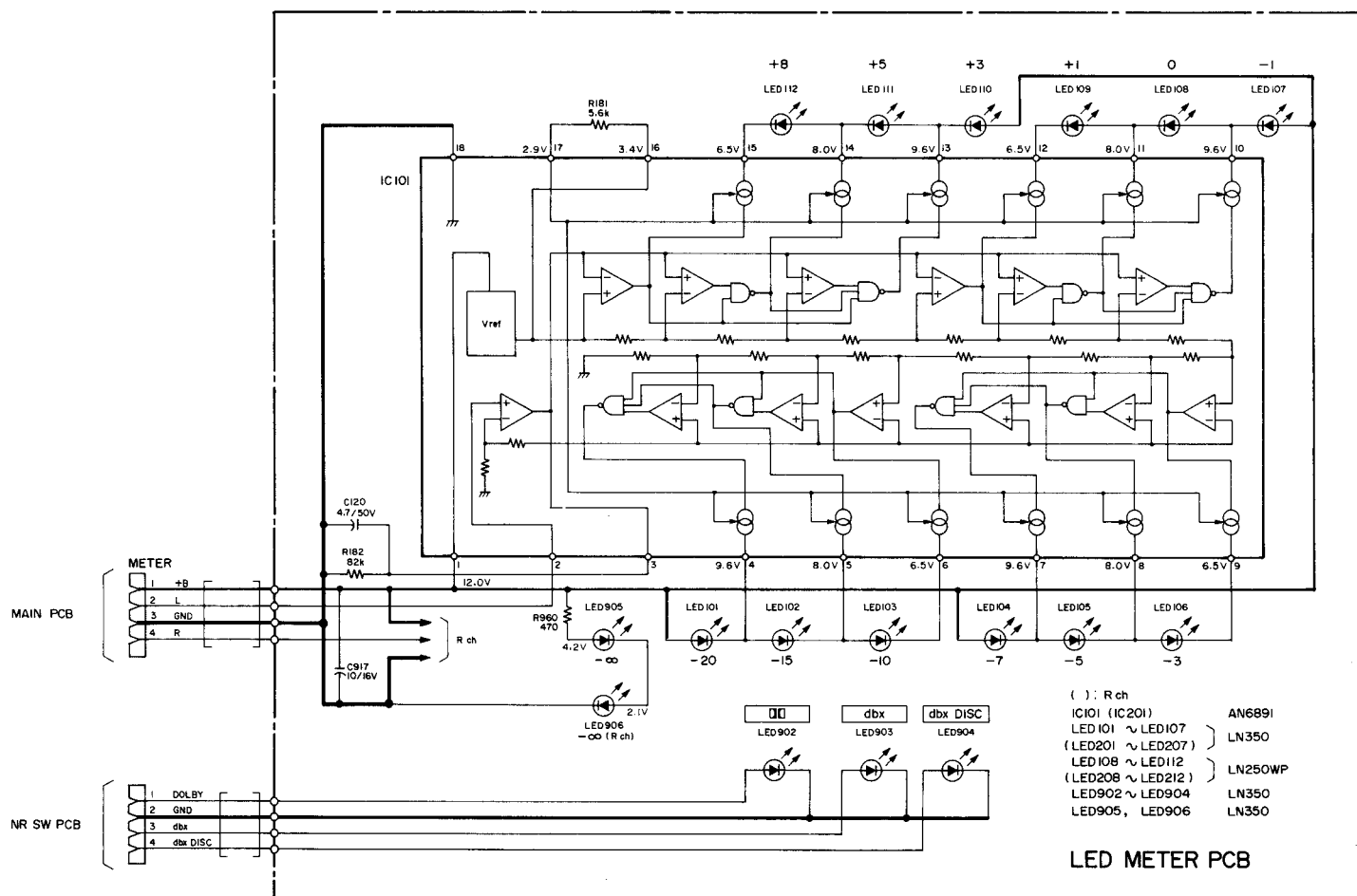
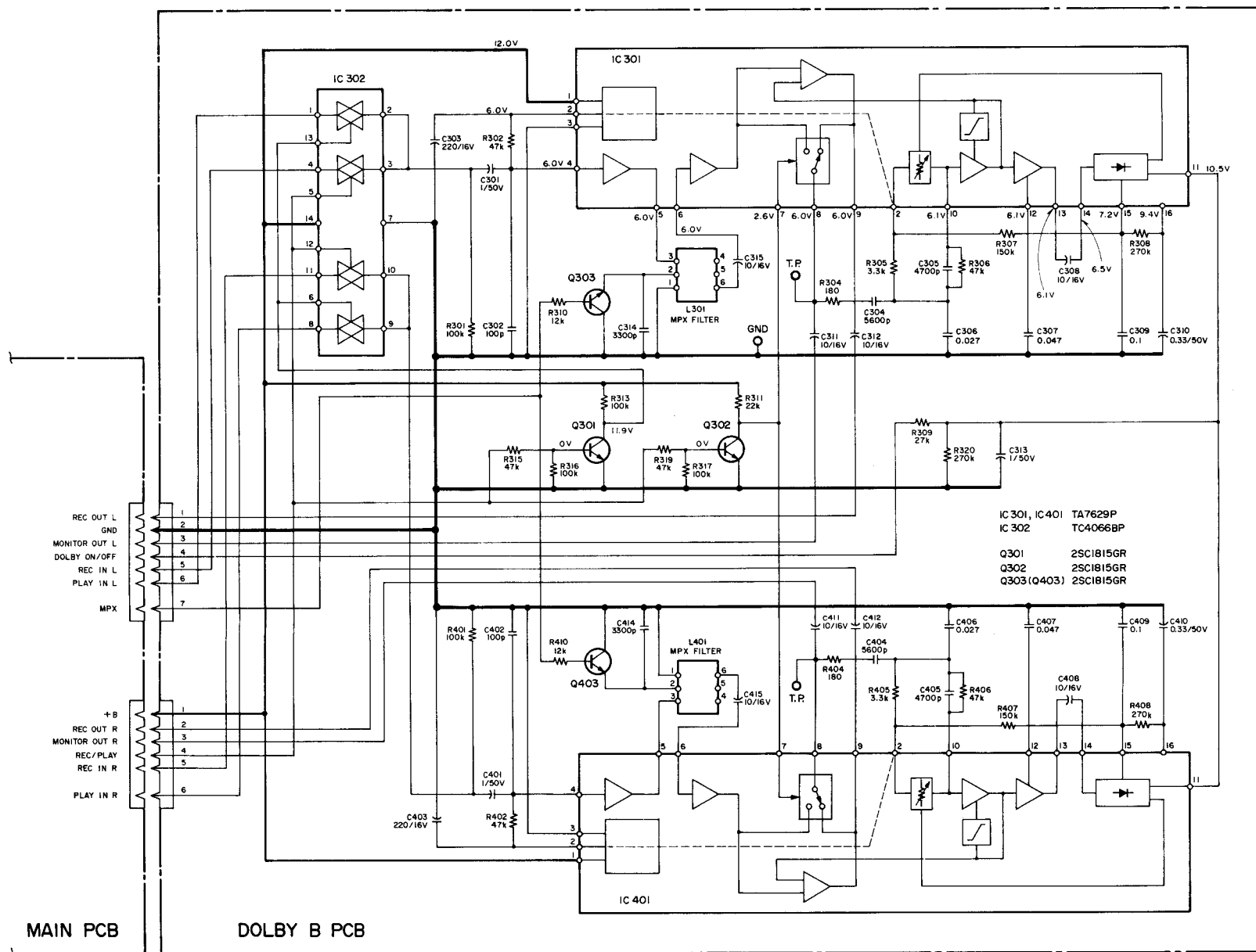
TEAC CORPORATION OF AMERICA

7733 TELEGRAPH ROAD MONTEBELLO CALIFORNIA 90640 PHONE (213) 726-0303

TEAC AUSTRALIA PTY., LTD.

115 WHITEMAN STREET SOUTH MELBOURNE VICTORIA 3205 PHONE 699-6000





4. Voltage and level values are for reference only.

0 dB = 0.775 V

Indicated values are those existing when the peak level meter indicates 0 dB.

Each Voltage value shown above is the one measured in REC PAUSE position and each mode.

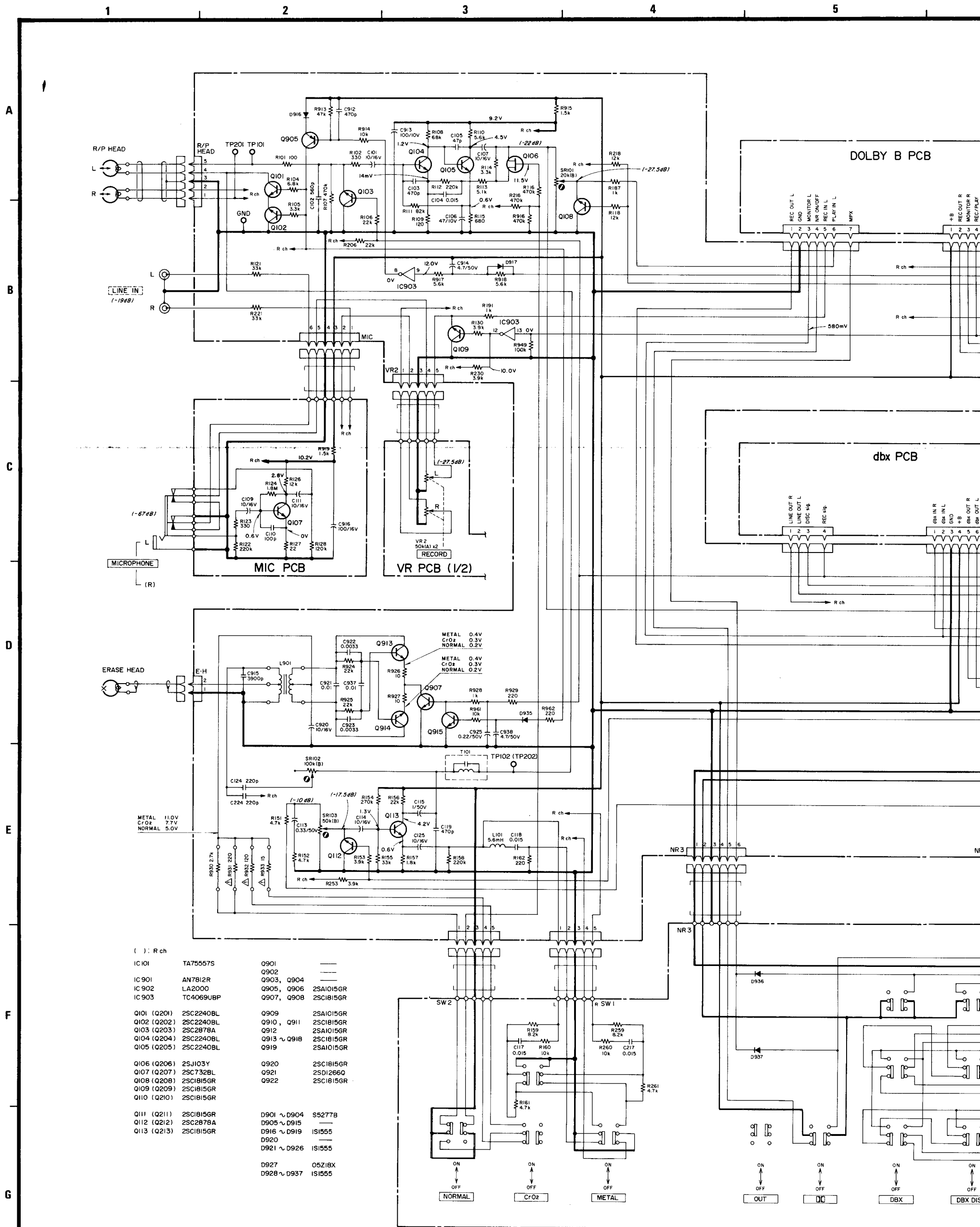
5.    : front panel indication

6.    : rear panel indication

7.    : +B power supply circuit

**V-400X**  
**Stereo Cassette Deck**  
October, 1983

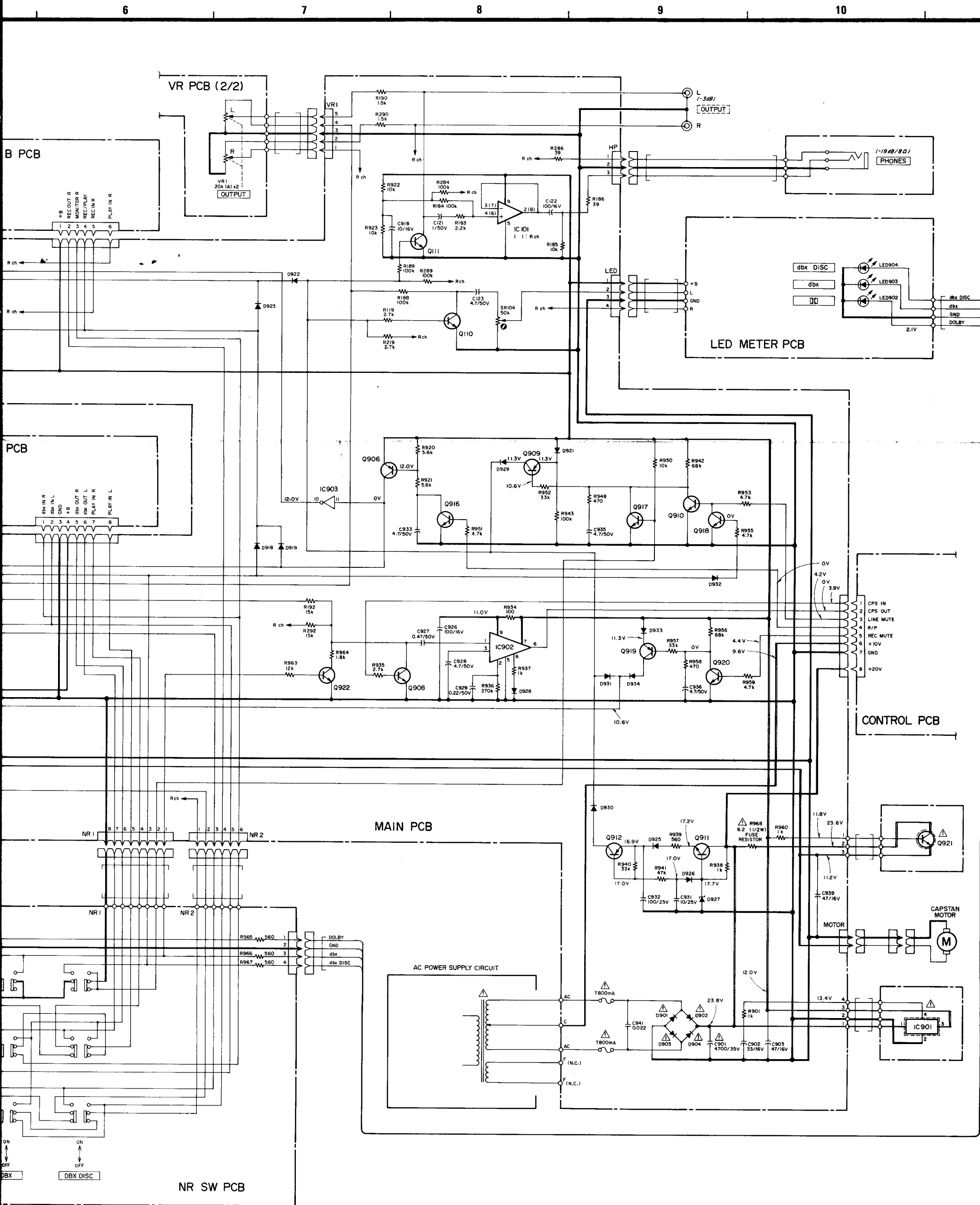
# TEAC SCHEMATIC DIAGRAM (AMPLIFIER) V-400X



**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.**

## NOTES

1. Schematic diagram shown for left channel except for some components.
2. All resistors are 1/4 watt,  $\pm 5\%$ , unless marked otherwise. Resistor values are in ohms ( $k = 1,000$  ohms).
3. All capacitor values are in microfarads ( $p = \text{picofarads}$ ).
4.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components—TEAC parts list and ensure exact replacement.



panel except for some of the components.  
marked otherwise.  
ohms).  
(p = picofarads).  
critical components.  
critical components—refer to the  
circuit diagram.

5. Voltage and level values are for reference only.  
0 dB = 0.775 V  
Indicated values are those existing when the peak level meter indicates 0 dB.  
Each Voltage value shown above is the one measured in REC PAUSE position and each mode.
6.    : front panel indication
7.    : rear panel indication
8.    : +B power supply circuit

**V-400X**  
**Stereo Cassette Deck**  
October, 1983

A

B

C

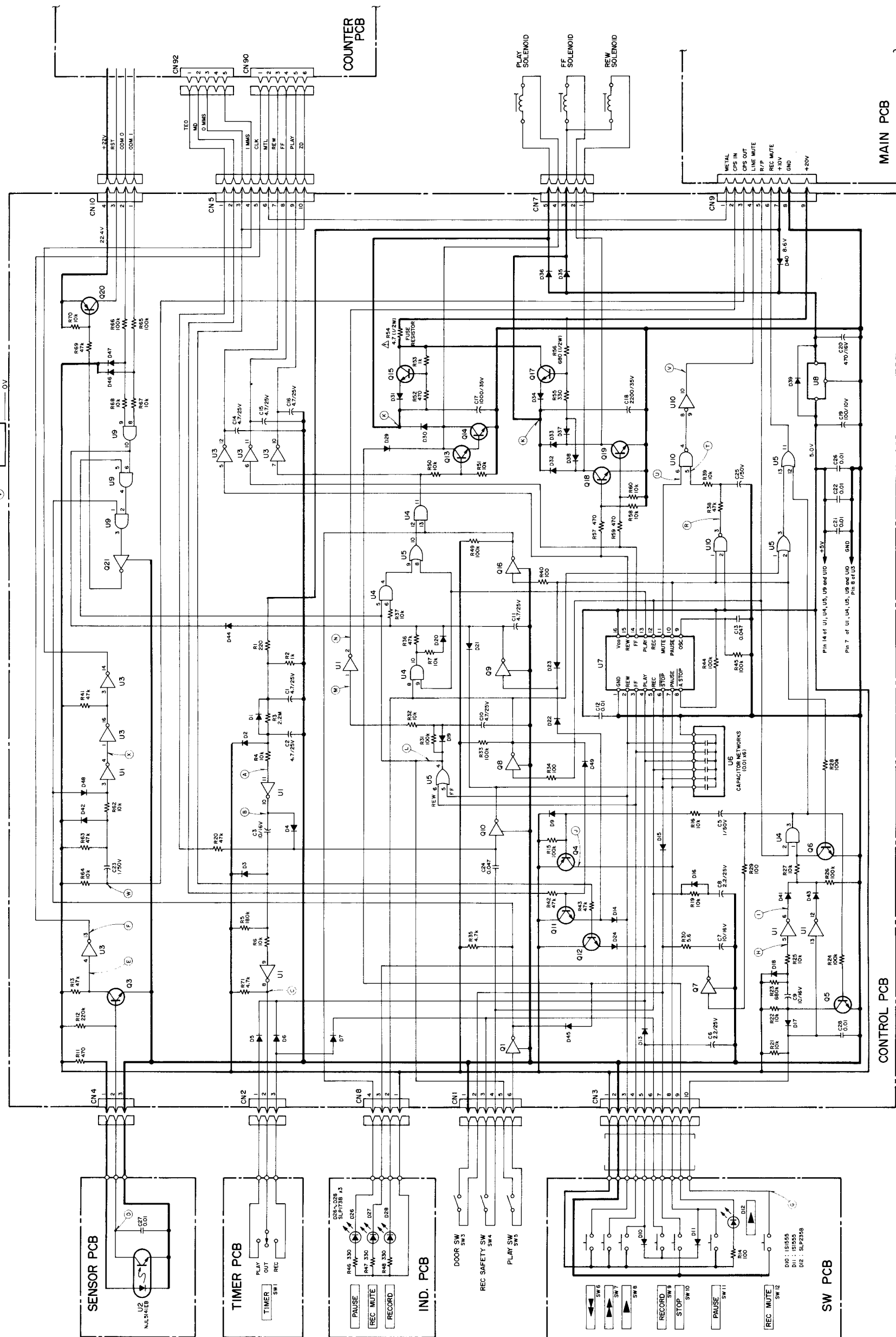
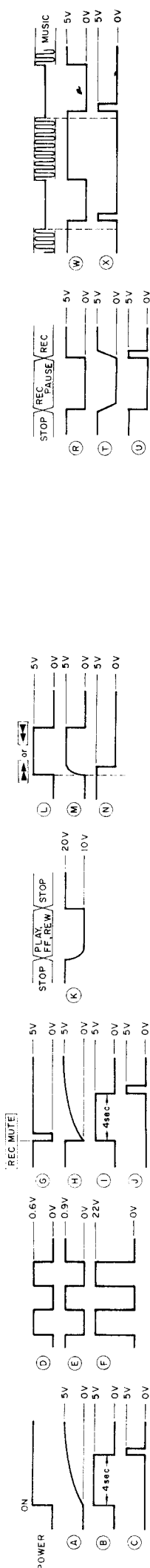
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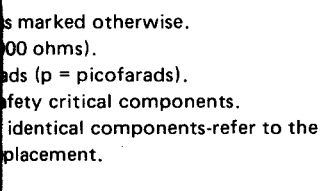


**INSTRUCTIONS FOR SERVICE PERSONNEL**  
**BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.**

## NOTES

1. All resistors are 1/4 watt,  $\pm 5\%$ , unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
2. All capacitor values are in microfarads (p = picofarads).
3.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the TEAC parts list and ensure exact replacement.

|    |          |     |           |    |         |     |         |     |         |     |         |     |         |         |        |
|----|----------|-----|-----------|----|---------|-----|---------|-----|---------|-----|---------|-----|---------|---------|--------|
| U1 | TC4069BP | U6  | 0.01uF 16 | Q1 | 2SC3402 | Q6  | 2SC3402 | Q11 | 2SC1815 | Q16 | 2SC3402 | Q21 | 2SC3402 | D41~D49 | 1S1555 |
| U2 | TC914BP  | U7  | TC914BP   | Q2 | 2SC3402 | Q7  | 2SC3402 | Q12 | 2SC1815 | Q17 | 2SC3402 | Q22 | 2SC3402 | D25~D28 | 1S1555 |
| U3 | TD6504P  | U8  | TA7L005AP | Q3 | 2SC1815 | Q8  | 2SC3402 | Q13 | 2SC1815 | Q18 | 2SC3402 | Q23 | 2SC3402 | D29~D36 | 1S1555 |
| U4 | TC4081BP | U9  | TC4081BP  | Q4 | 2SC1815 | Q9  | 2SC3402 | Q14 | 2SC1815 | Q19 | 2SC3402 | Q24 | 2SC3402 | D37~D38 | 1S1555 |
| U5 | TC4071BP | U10 | TC4071BP  | Q5 | 2SC1815 | Q10 | 2SC3402 | Q15 | 2SC1815 | Q20 | 2SC3402 | Q25 | 2SC3402 | D39~D40 | 1S1555 |



4. Voltage and level values are for reference only.  
0 dB = 0.775 V  
Indicated values are those existing when the peak level meter indicatis 0 dB.  
Each Voltage value shown above is the one measured in REC PAUSE position and each mode.

5.  : front panel indication

6.  : rear panel indication

7.  +B power supply circuit

# V-500X

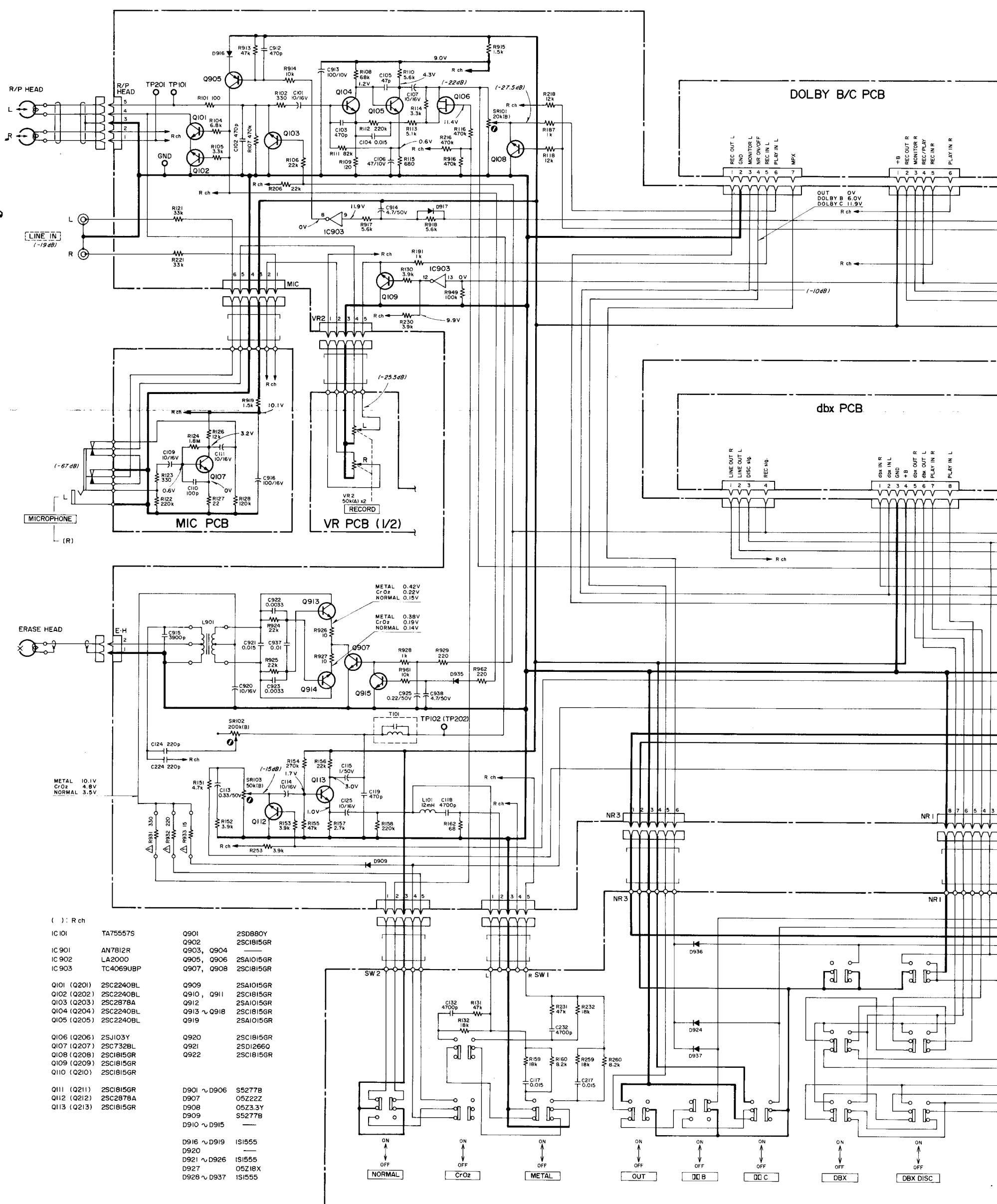
## Stereo Cassette Deck

October, 1983

# TEAC SCHEMATIC DIAGRAM (AMPLIFIER) V-500X

1 2 3 4 5 6

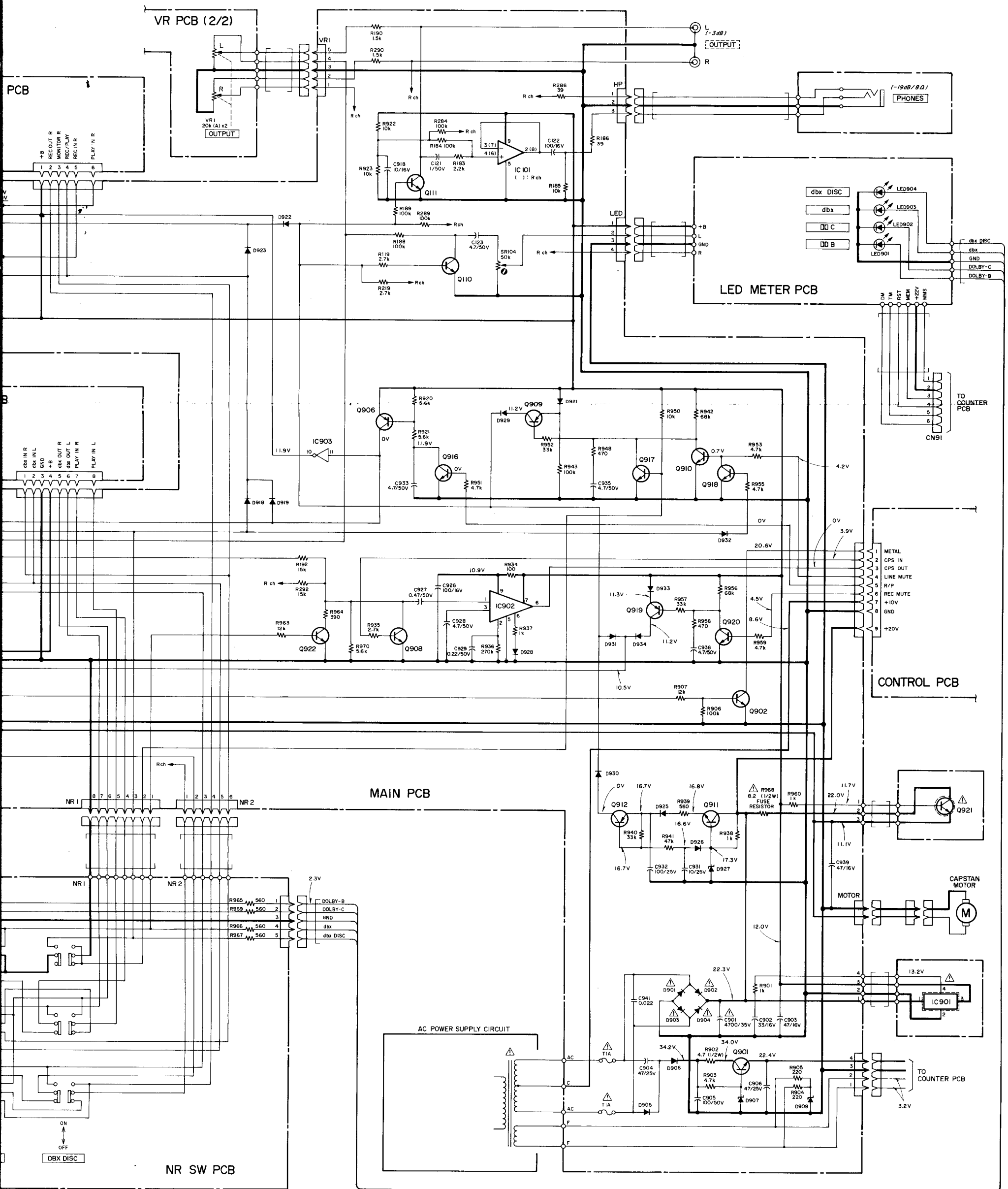
A  
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D  
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G  
H



|             |           |             |           |
|-------------|-----------|-------------|-----------|
| IC 101      | TA7555TS  | Q901        | 2SD880Y   |
| IC 901      | AN7812R   | Q902        | 2SC1815GR |
| IC 902      | LA2000    | Q903, Q904  | 2SC1815GR |
| IC 903      | TC4069UBP | Q905, Q906  | 2SA1015GR |
|             |           | Q907, Q908  | 2SC1815GR |
| Q101 (Q201) | 2SC2240BL | Q909        | 2SA1015GR |
| Q102 (Q202) | 2SC2240BL | Q910, Q911  | 2SC1815GR |
| Q103 (Q203) | 2SC2878A  | Q912        | 2SA1015GR |
| Q104 (Q204) | 2SC2240BL | Q913 ~ Q918 | 2SC1815GR |
| Q105 (Q205) | 2SC2240BL | Q919        | 2SA1015GR |
| Q106 (Q206) | 2SJ103Y   | Q920        | 2SC1815GR |
| Q107 (Q207) | 2SC732BL  | Q921        | 2SD12660  |
| Q108 (Q208) | 2SC1815GR | Q922        | 2SC1815GR |
| Q109 (Q209) | 2SC1815GR |             |           |
| Q110 (Q210) | 2SC1815GR |             |           |
| Q111 (Q211) | 2SC1815GR | D901 ~ D906 | S5277B    |
| Q112 (Q212) | 2SC2878A  | D907        | 05Z22Z    |
| Q113 (Q213) | 2SC1815GR | D908        | 05Z3.3Y   |
|             |           | D909        | S5277B    |
|             |           | D910 ~ D915 | —         |
|             |           | D916 ~ D919 | 1S1555    |
|             |           | D920        | —         |
|             |           | D921 ~ D926 | 1S1555    |
|             |           | D927        | 05Z18X    |
|             |           | D928 ~ D937 | 1S1555    |

**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.

- NOTES**
- Schematic diagram shown for left channel except for some of the components.
  - All resistors are 1/4 watt, ±5 %, unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
  - All capacitor values are in microfarads (p = picofarads).
  - △ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the TEAC parts list and ensure exact replacement.



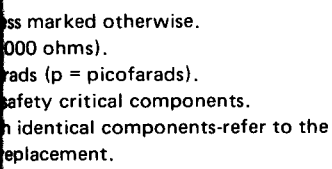
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Each Voltage value shown above is the one measured in REC PAUSE position and each mode.
6.    : front panel indication
7.    : rear panel indication
8.    +B power supply circuit

**V-500X**  
**Stereo Cassette Deck**  
October, 1983



1. All resistors are ¼ watt,  $\pm 5\%$ , unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
2. All capacitor values are in microfarads (p = picofarads).
3.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer TEAC parts list and ensure exact replacement.



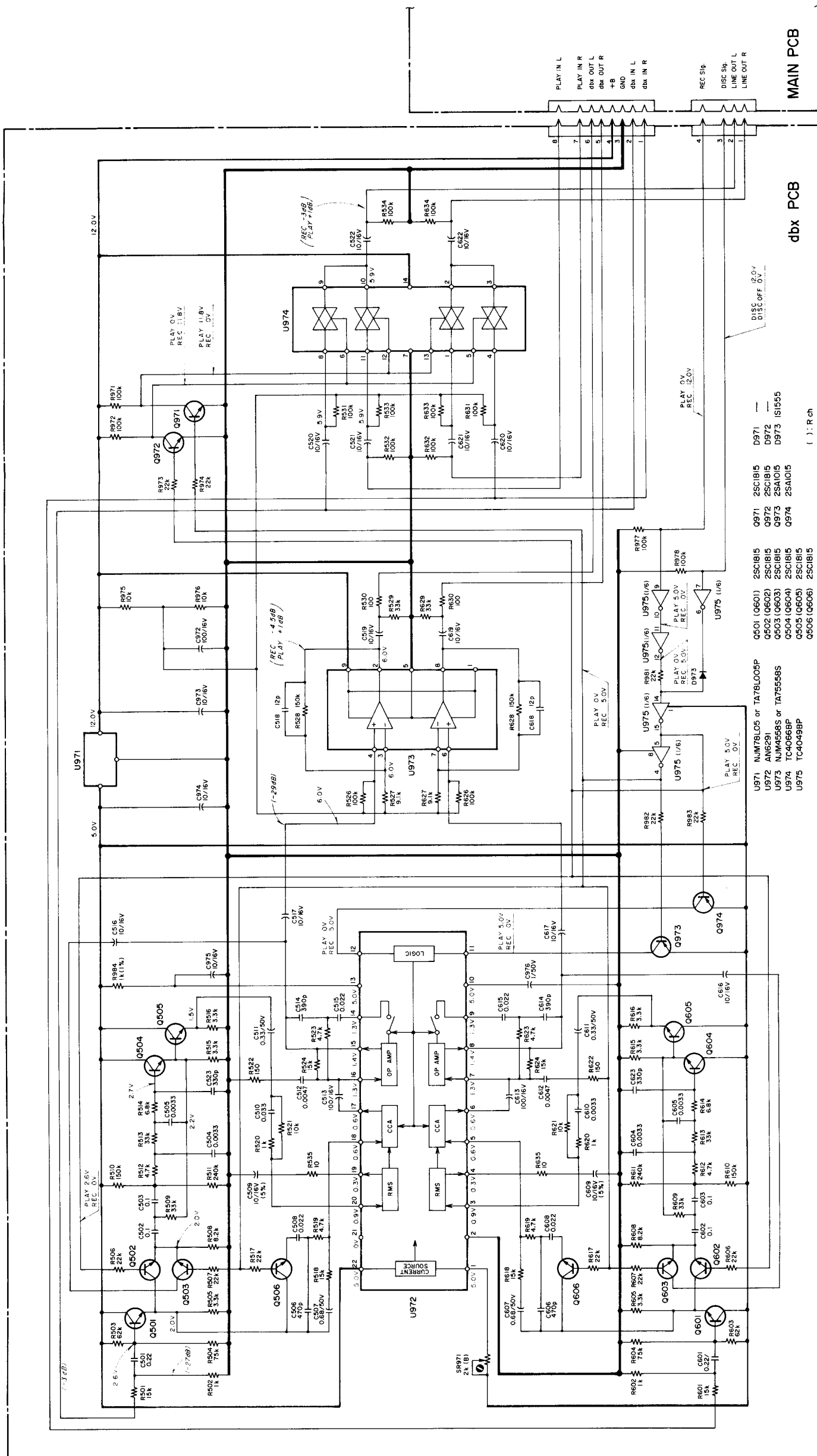
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Indicated values are those existing when the peak level meter indicatis 0 dB.  
Each Voltage value shown above is the one measured in REC PAUSE position and each mode.
5.  : front panel indication
6.  : rear panel indication
7.  +B power supply circuit

# V-500X

## Stereo Cassette Deck

October, 1983

# TEAC SCHEMATIC DIAGRAM V-500X/V-400X

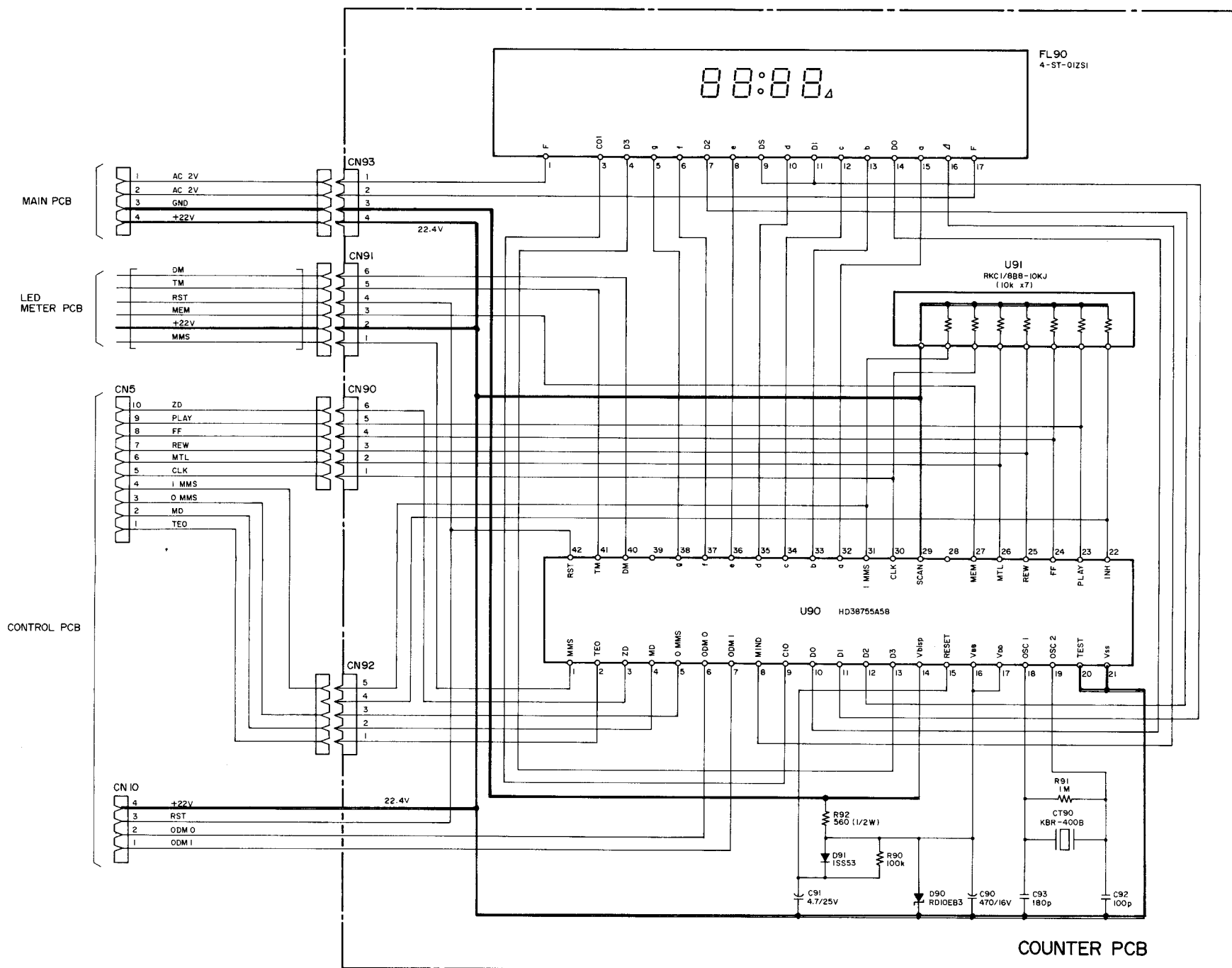


**INSTRUCTIONS FOR SERVICE PERSONNEL**  
**BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.**

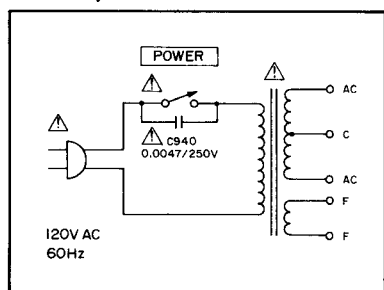
## NOTES

1. All resistors are 1/4 watt,  $\pm 5\%$ , unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
2. All capacitor values are in microfarads (p = picofarads).
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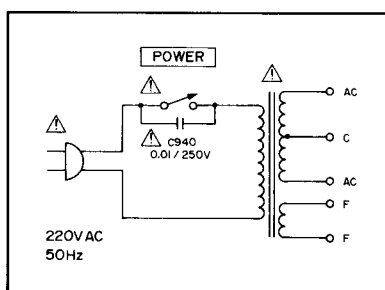
## COUNTER V-500X



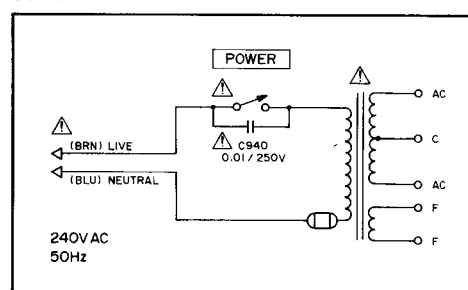
## U.S.A., CANADA



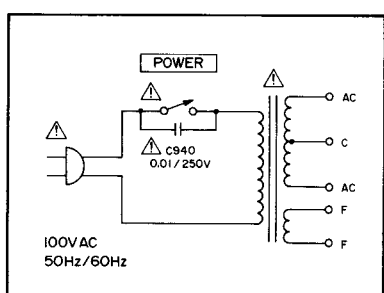
## EUROPE



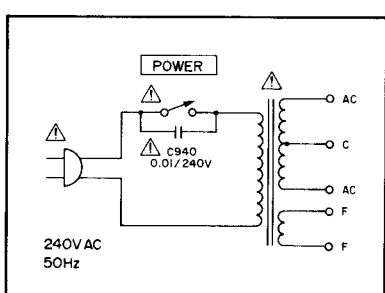
## U.K.



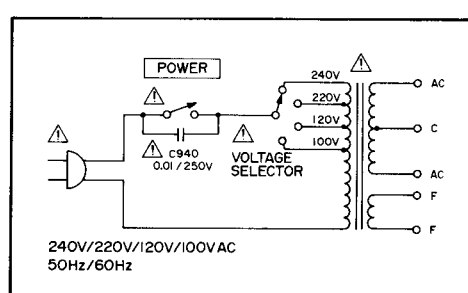
## JAPAN (V-500X ONLY)



## AUSTRALIA



## GENERAL EXPORT



4. Voltage and level values are for reference only.

0 dB = 0.775 V

Indicated values are those existing when the peak level meter indicates 0 dB.

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6.    : rear panel indication

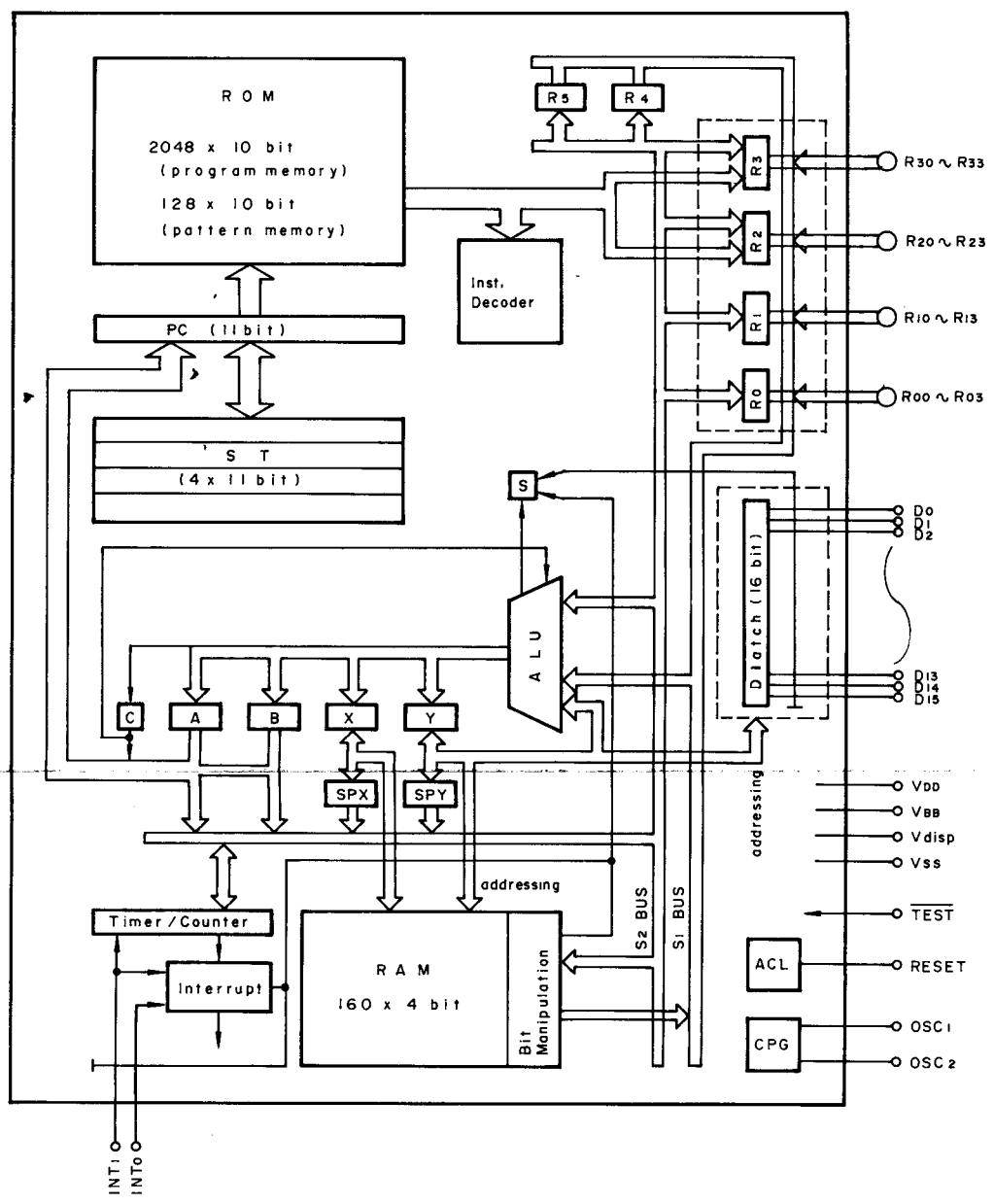
7.  : +B power supply circuit

# V-500X/V-400X

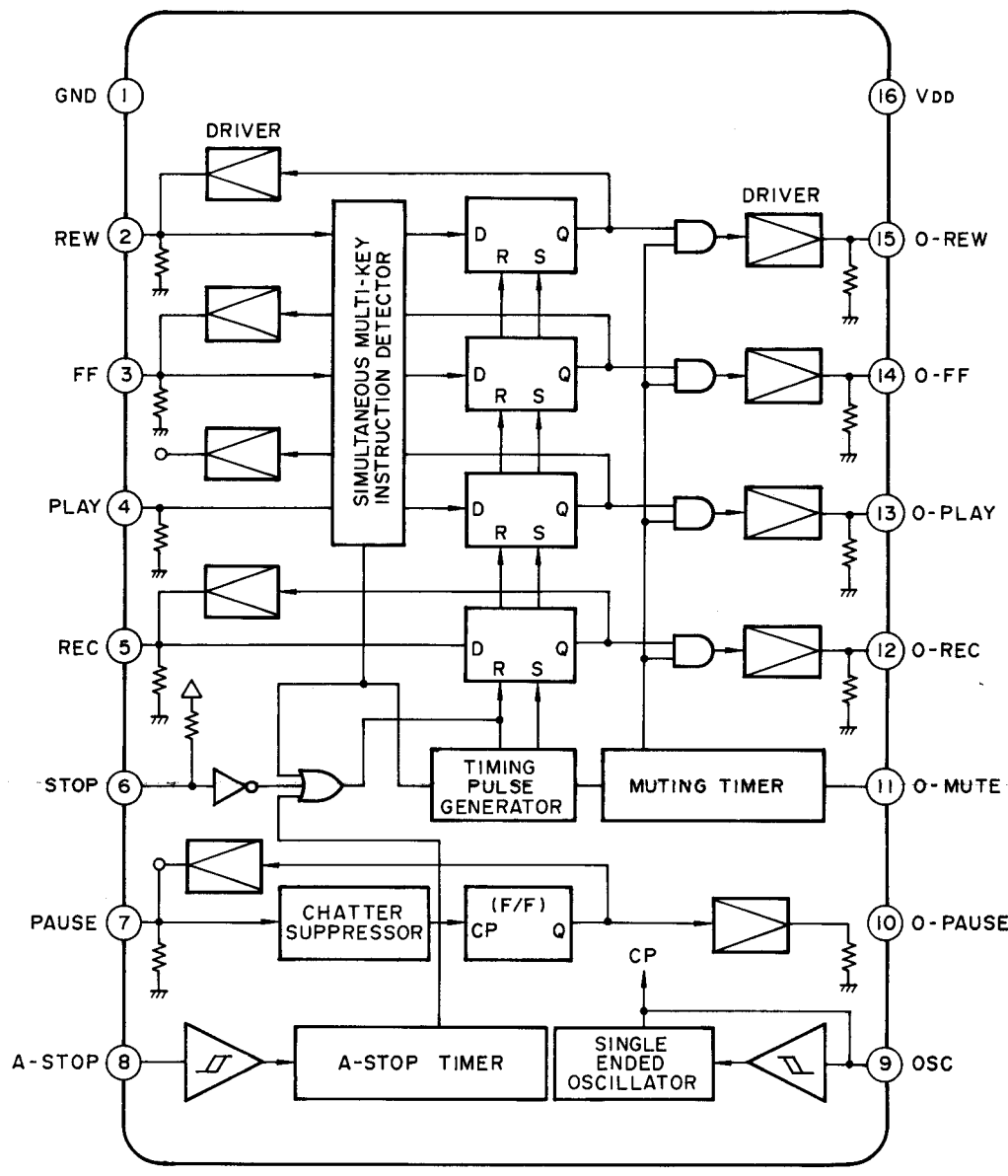
## Stereo Cassette Deck

October, 1983

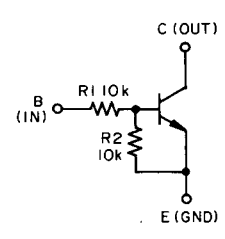
HD38755A58



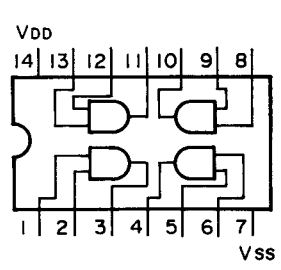
TC9144P



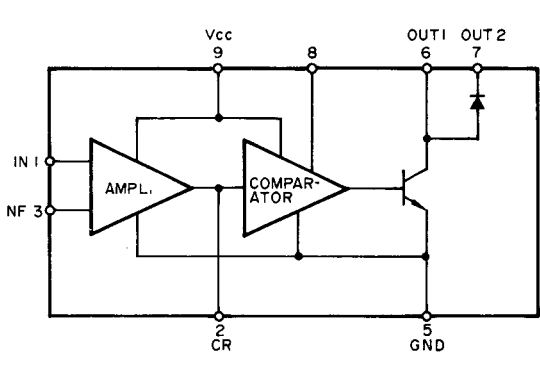
2SC3402



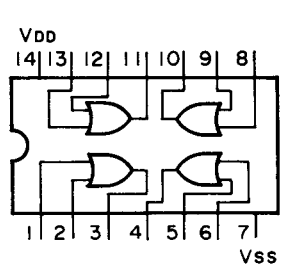
TC4081BP

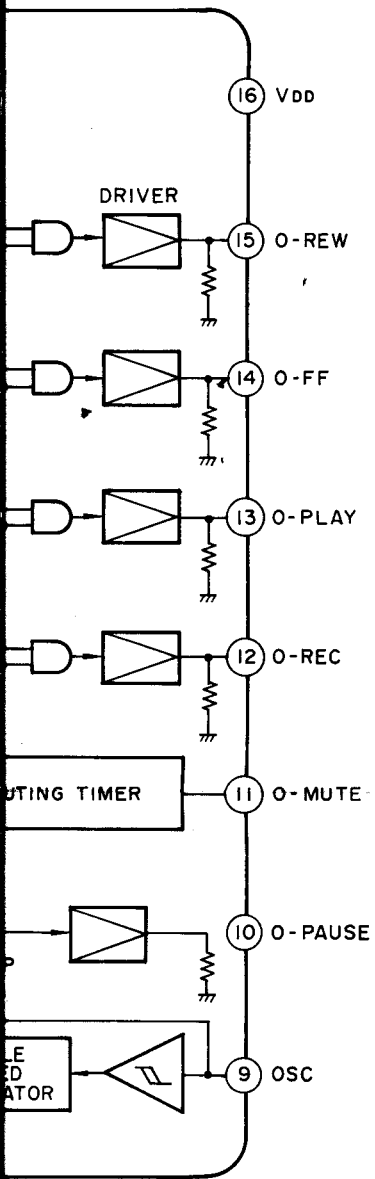


LA2000

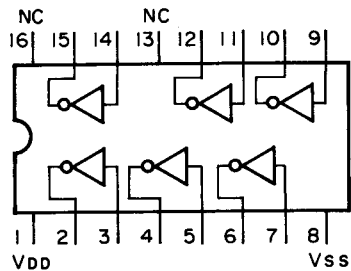


TC4071BP

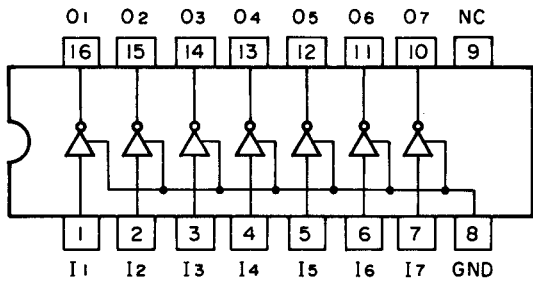




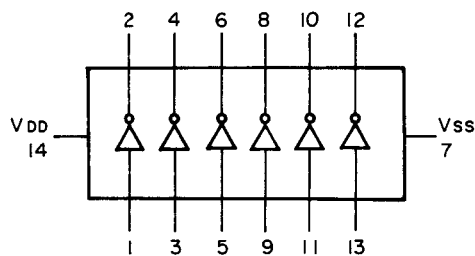
TC4049BP



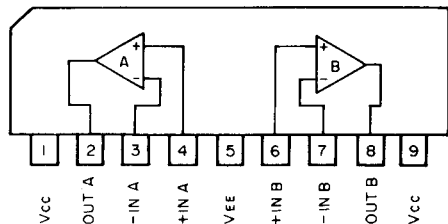
TD62504F



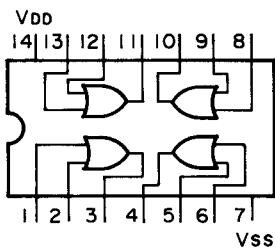
TC4069UBP



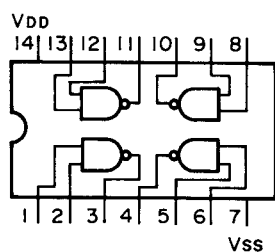
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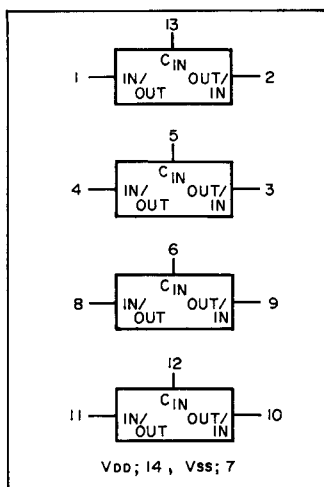
TC4071BP



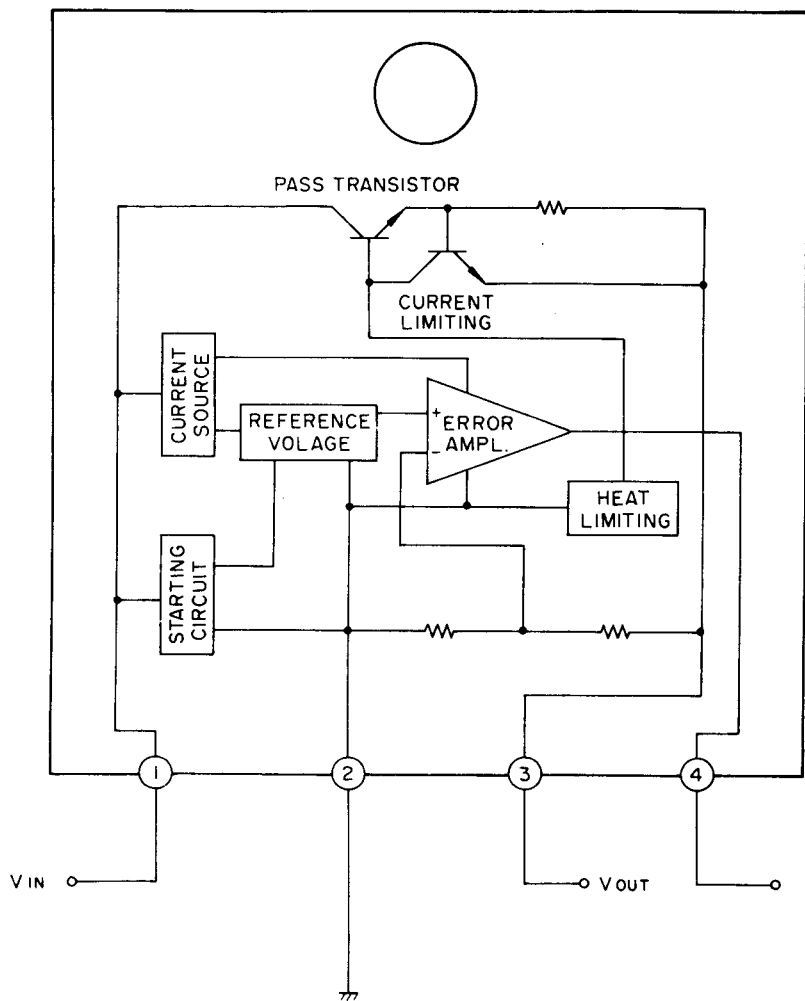
TC4011BP



TC4066BP



AN7812R



A

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C

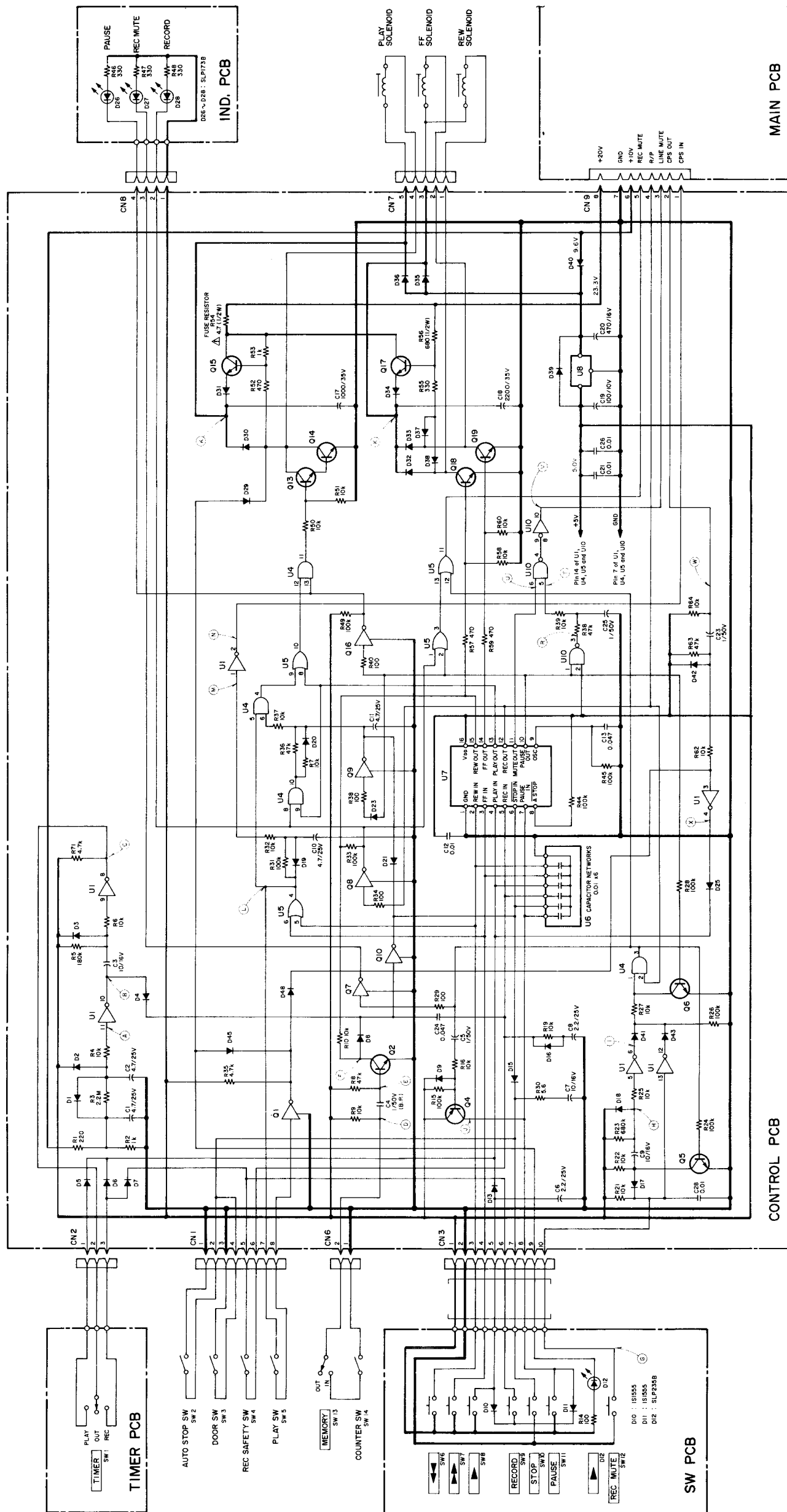
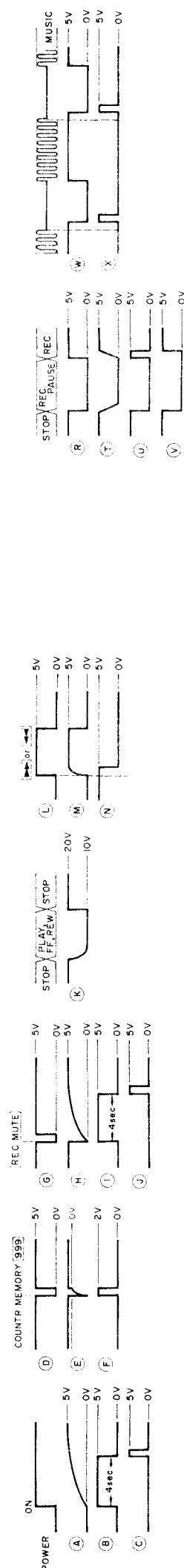
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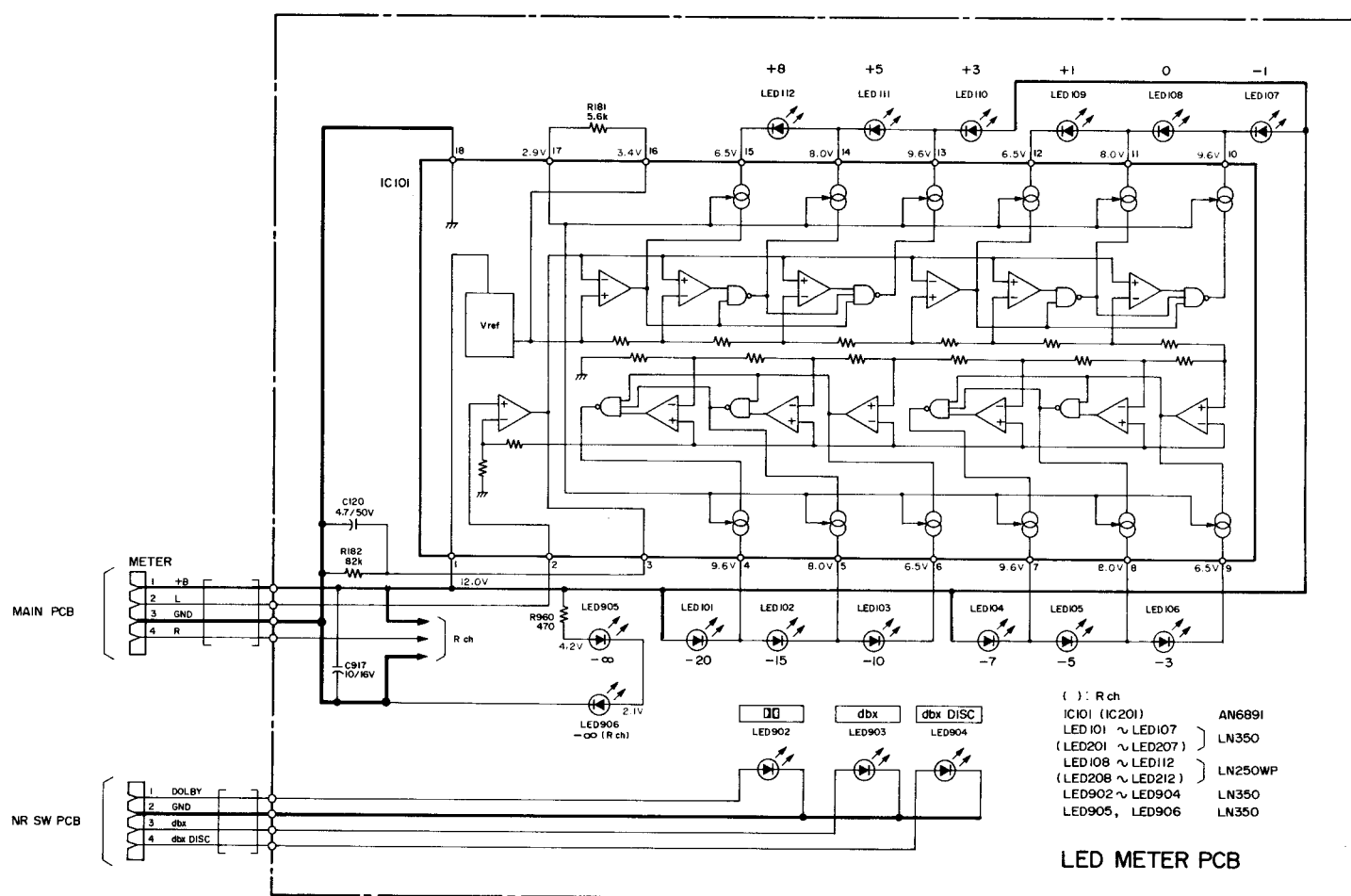
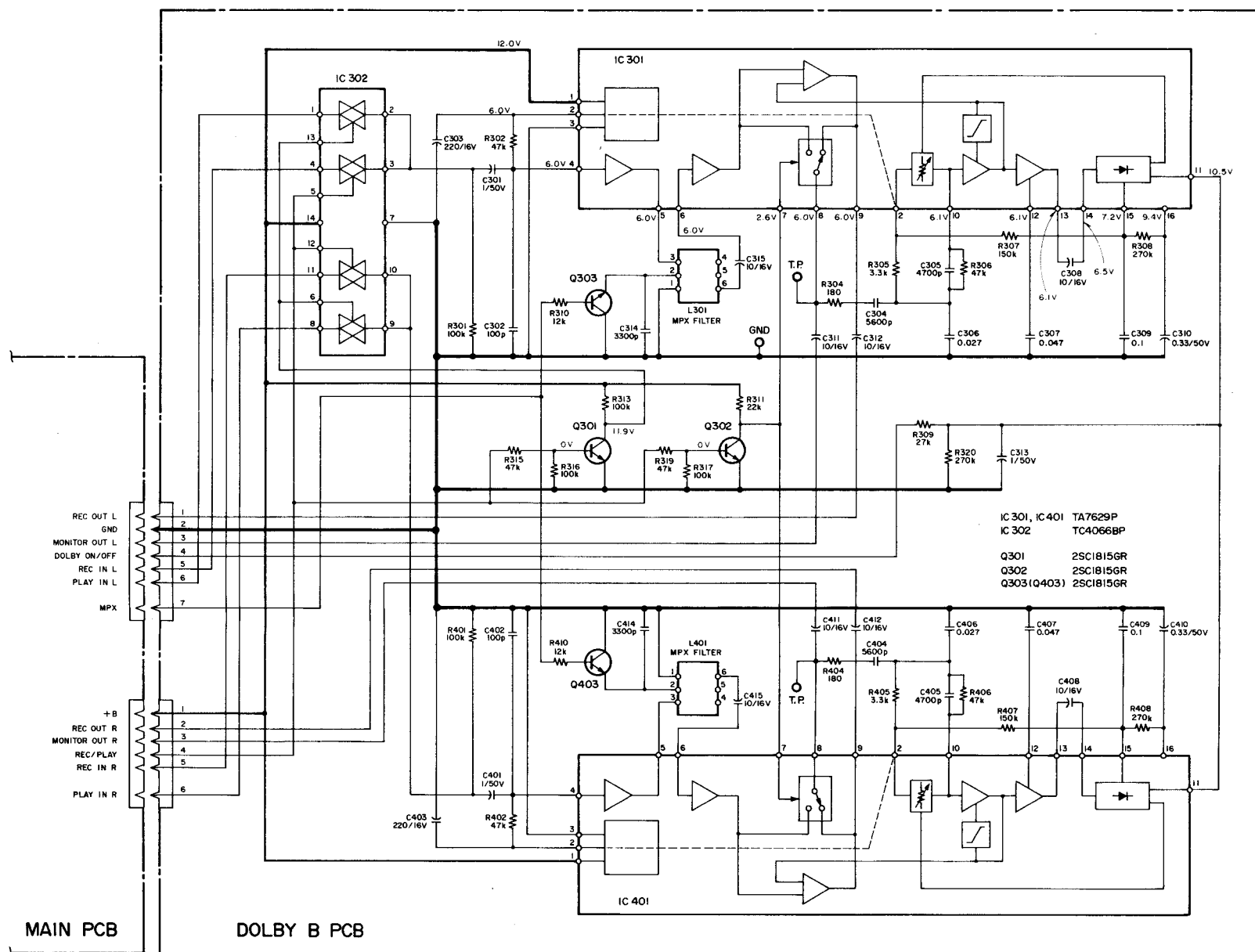
H



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|    |          |     |         |    |         |     |         |     |         |     |         |     |      |        |     |      |          |        |
|----|----------|-----|---------|----|---------|-----|---------|-----|---------|-----|---------|-----|------|--------|-----|------|----------|--------|
| U1 | TC4069BP | U6  | 001UF*6 | Q1 | 2SC3402 | Q6  | 2SC1815 | Q11 | —       | Q16 | 2SC3402 | D1  | ~D9  | IS1555 | D24 | —    | D37, D38 | IS1555 |
| U2 | —        | U7  | TC914AP | Q2 | 2SC1815 | Q7  | 2SC3402 | Q12 | 2SC1815 | Q17 | 2SC2655 | D10 | ~D14 | IS1555 | D25 | —    | D39, D40 | S3277B |
| U3 | —        | U8  | TL005AP | Q3 | 2SC3402 | Q8  | 2SC3402 | Q13 | 2SC1815 | Q18 | 2SC2655 | D15 | ~D21 | IS1555 | D26 | ~D28 | D41      | IS1555 |
| U4 | TC401BP  | U9  | —       | Q4 | 2SA1015 | Q9  | 2SC3402 | Q14 | 2SC2655 | Q19 | 2SC2655 | D22 | —    | IS1555 | D29 | —    | D42      | IS1555 |
| U5 | TC4071BP | U10 | TC401BP | Q5 | 2SC1815 | Q10 | 2SC3402 | Q15 | 2SC2655 | Q20 | —       | D23 | —    | IS1555 | D30 | ~D36 | D43      | IS1555 |



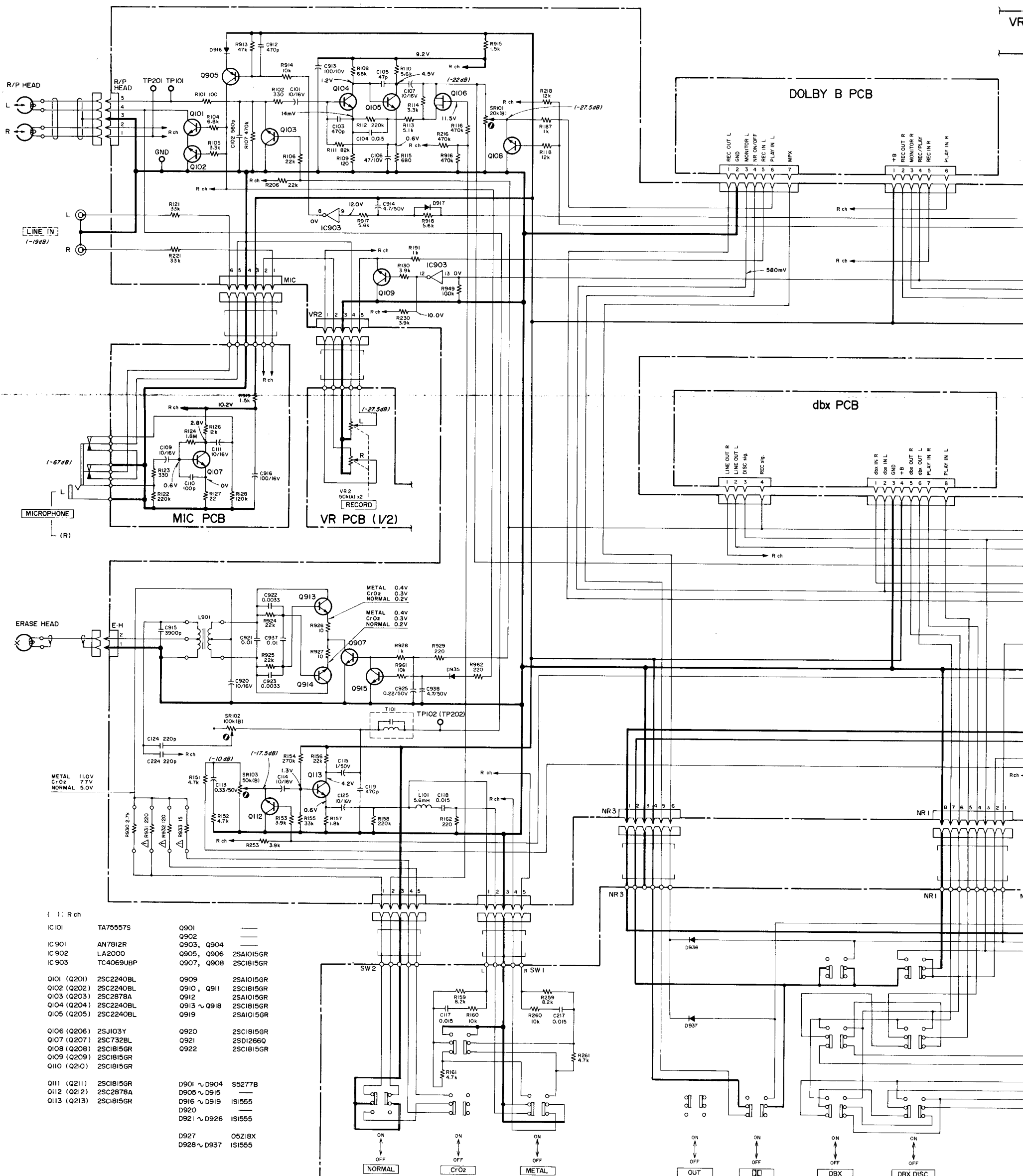
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6.    : rear panel indication  
7.    +B power supply circuit

**V-400X**  
Stereo Cassette Deck  
October, 1983

# TEAC SCHEMATIC DIAGRAM (AMPLIFIER) V-400X

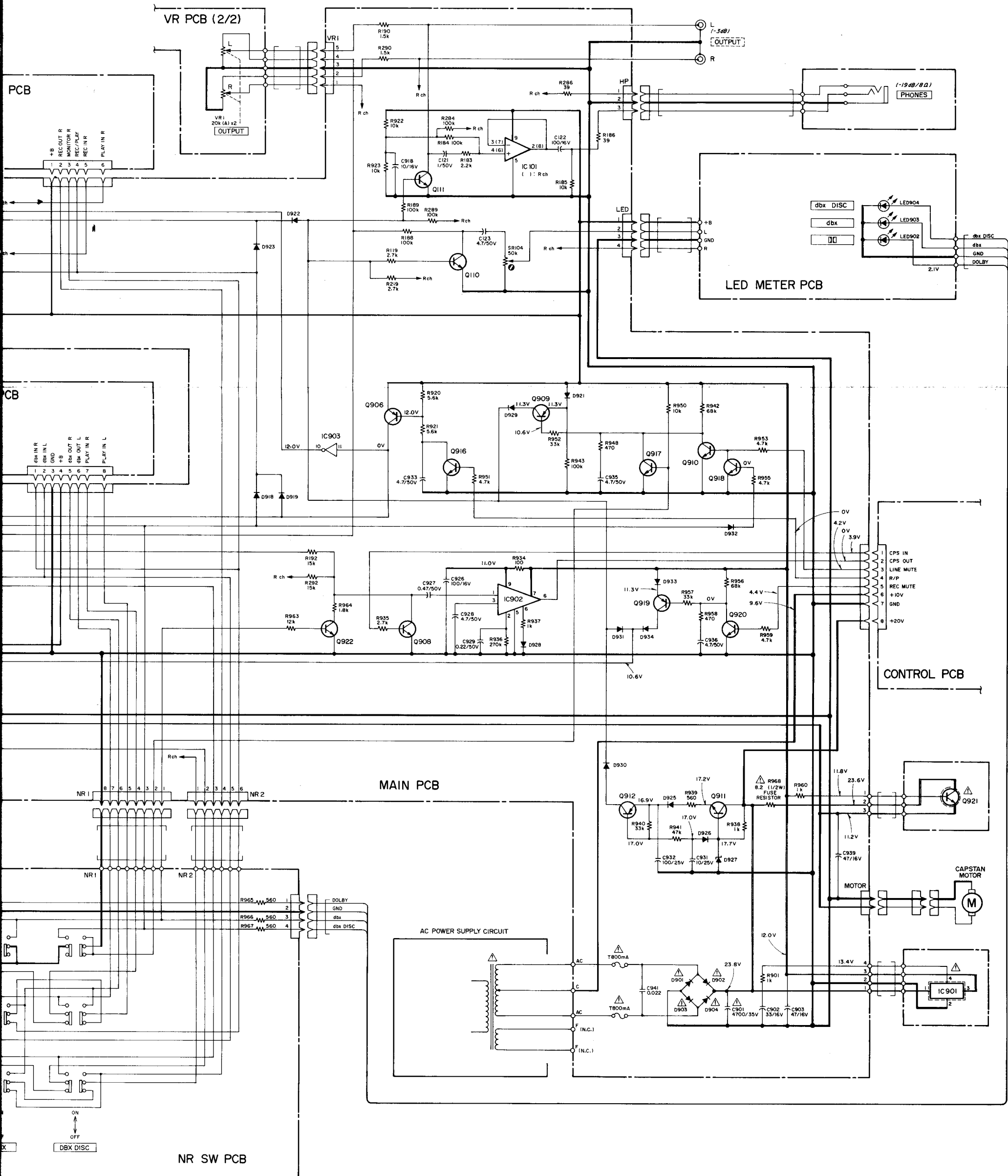
1 2 3 4 5 6



**INSTRUCTIONS FOR SERVICE PERSONNEL**  
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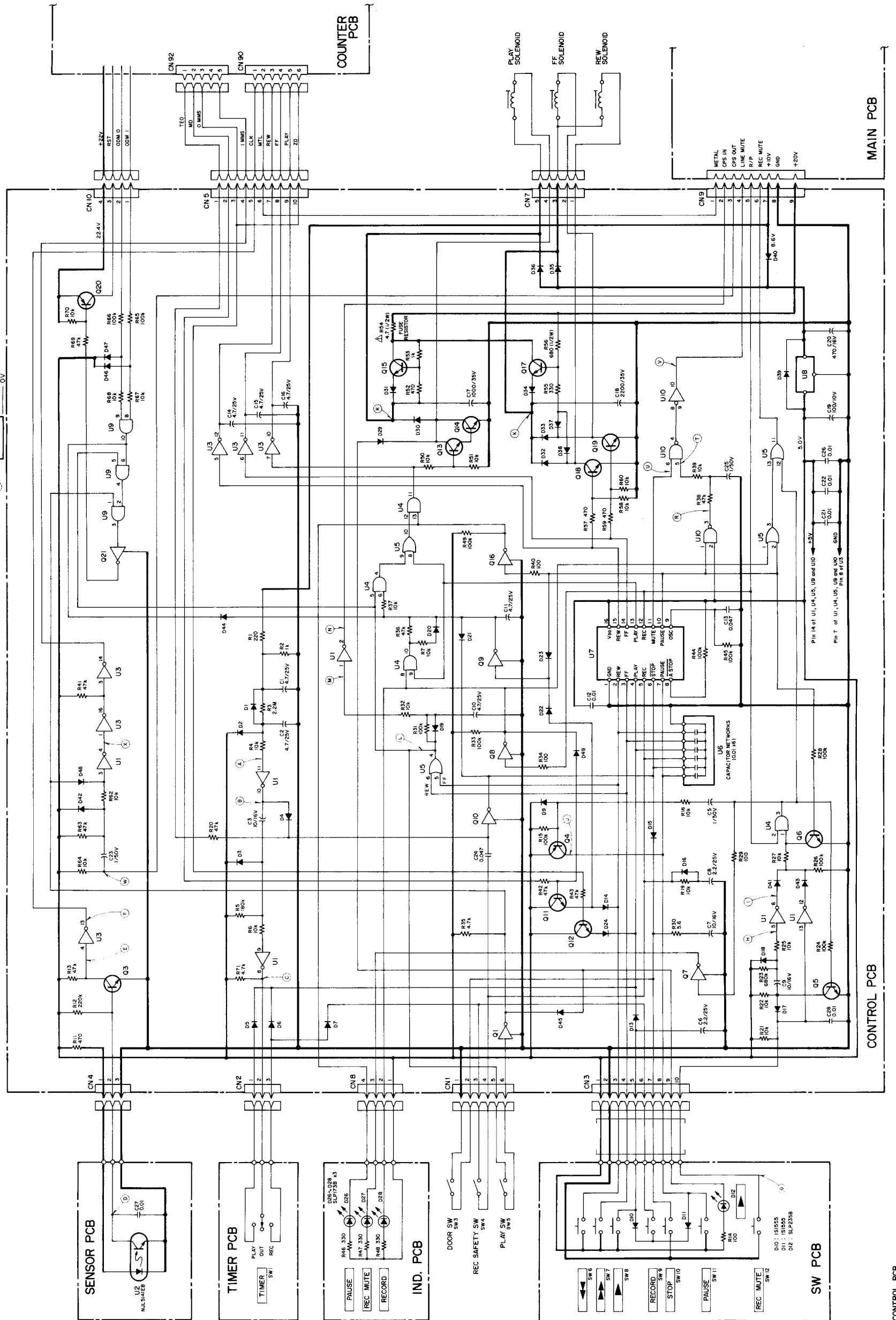
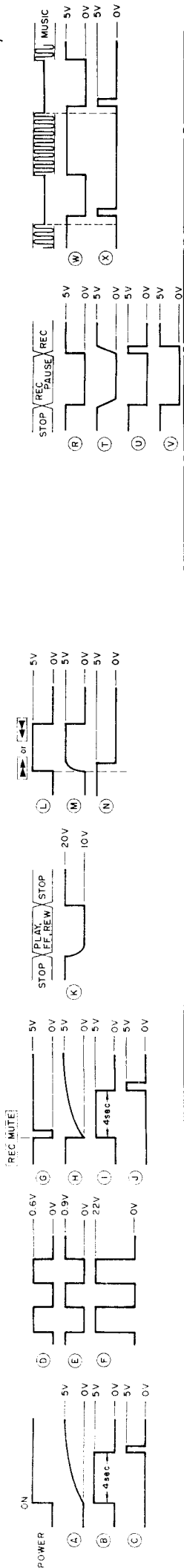
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**V-400X**  
**Stereo Cassette Deck**  
 October, 1983

# TEAC SCHEMATIC DIAGRAM V-500X

1 2 3 4 5

A B C D E F G H



**INSTRUCTIONS FOR SERVICE PERSONNEL**  
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CONTROL PCB

U1 TC4069BP

U2

U6 0.01uF x6

U7 TC9144P

Q1 25C3402

Q2

Q6 25C1815

Q7 25C3402

Q8 25C1815

Q9 25C1815

Q10 25C1815

Q11 25C1815

Q12 25C1815

Q13 25C1815

Q14 25C1815

Q15 25C1815

Q16 25C1815

Q17 25C1815

Q18 25C1815

Q19 25C1815

Q20 25C1815

Q21 25C3402

Q22 25C1815

Q23 25C1815

Q24 25C1815

Q25 25C1815

Q26 25C1815

Q27 25C1815

Q28 25C1815

Q29 25C1815

Q30 25C1815

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Q153 25C1815

Q154 25C1815

Q155 25C1815

Q156 25C1815

Q157 25C1815

Q158 25C1815

Q159 25C1815

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Q161 25C1815

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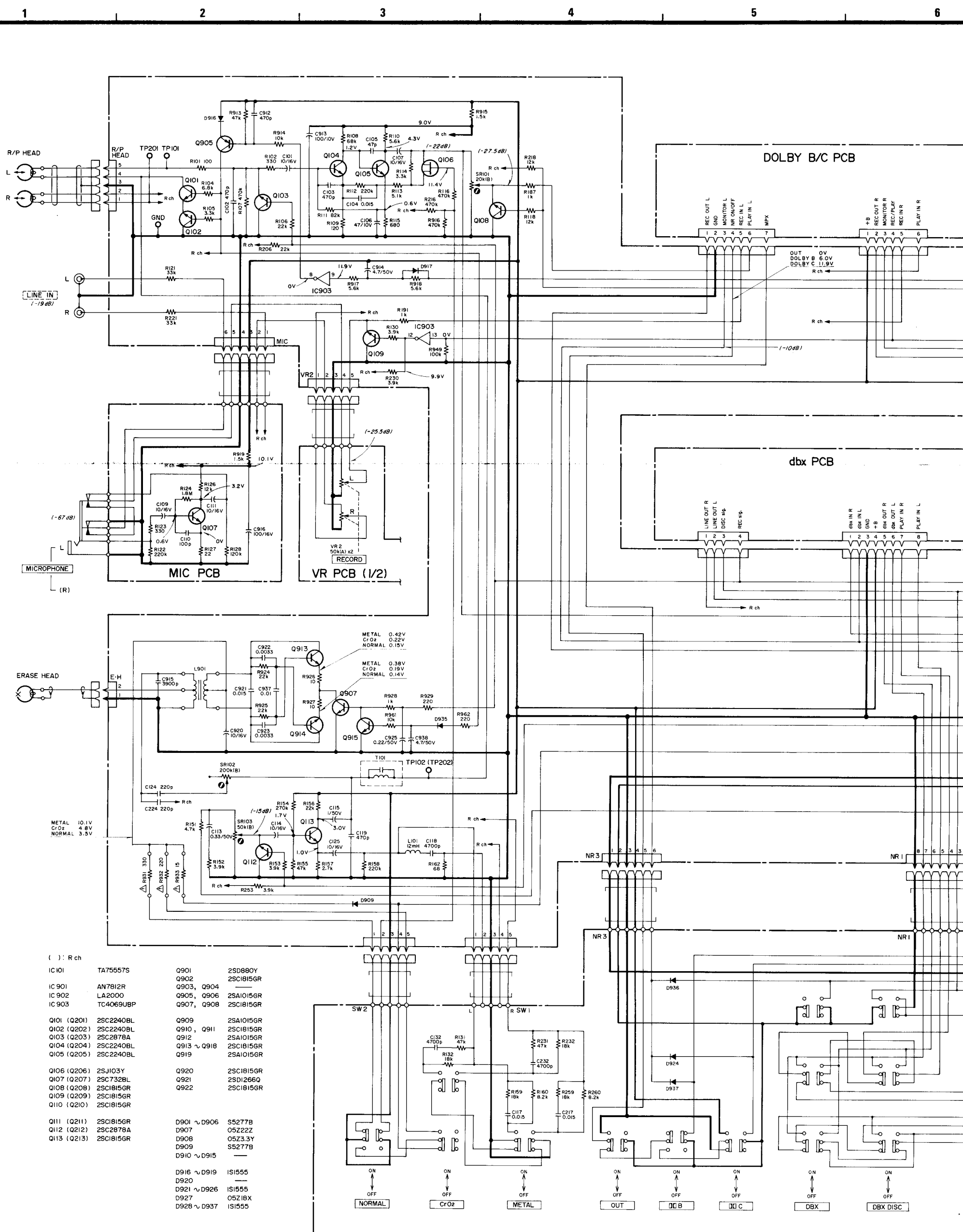
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Q2



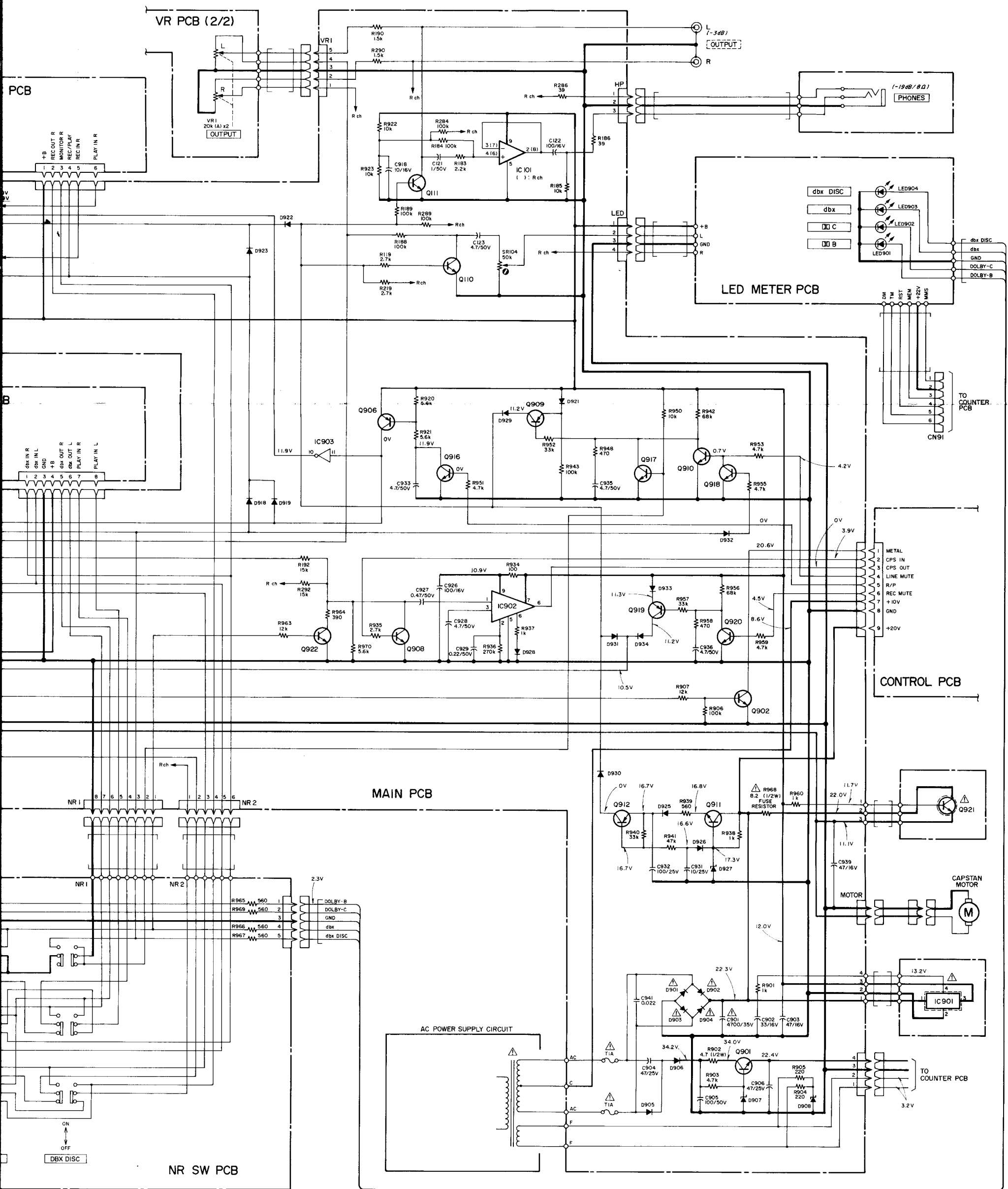
# TEAC SCHEMATIC DIAGRAM (AMPLIFIER) V-500X



**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.**

## NOTES

1. Schematic diagram shown for left channel except for some of the components.
2. All resistors are 1/4 watt,  $\pm 5\%$ , unless marked otherwise. Resistor values are in ohms (k = 1,000 ohms).
3. All capacitor values are in microfarads (p = picofarads).
4.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the TEAC parts list and ensure exact replacement.



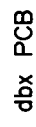
except for some of the components.  
ed otherwise.  
ns).  
picofarads).  
ritical components.  
al components-refer to the  
ent.

5. Voltage and level values are for reference only.  
0 dB = 0.775 V  
Indicated values are those existing when the peak level meter indicatis 0 dB.  
Each Voltage value shown above is the one measured in REC PAUSE position and each mode.
6.    : front panel indication
7.    : rear panel indication
8.    : +B power supply circuit

# V-500X

## Stereo Cassette Deck

October, 1983

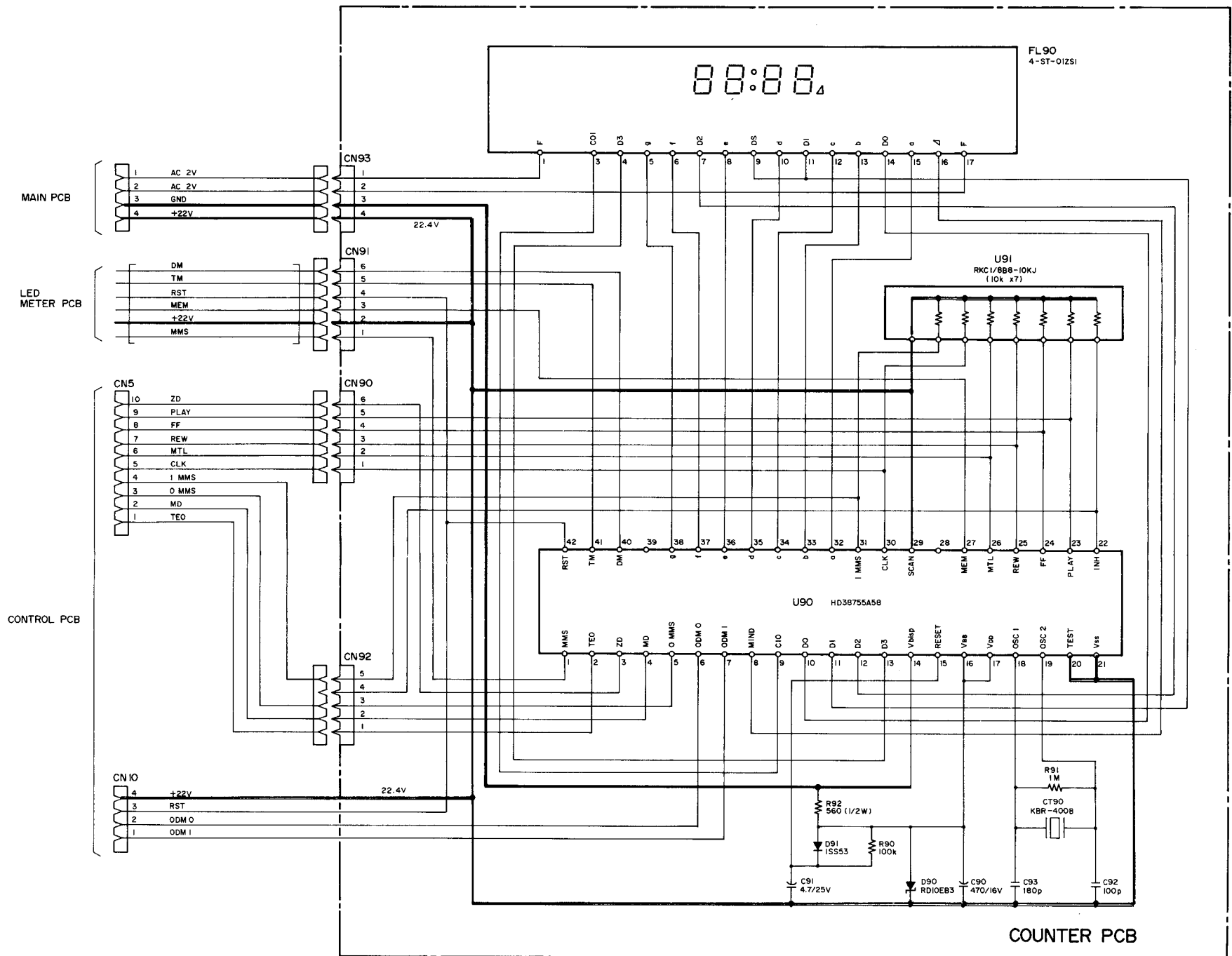


**BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.**

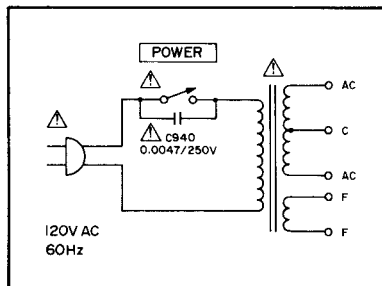
They must always be replaced with identical components-refer to the TEAC parts list and ensure exact replacement.

4. Volt   
 0 dB   
 Indi   
 Each
5.
6.
7.

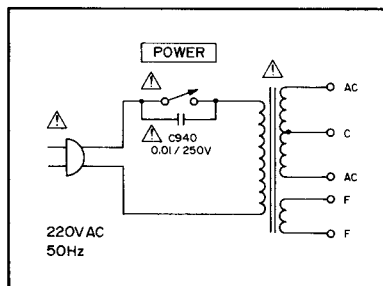
## COUNTER V-500X



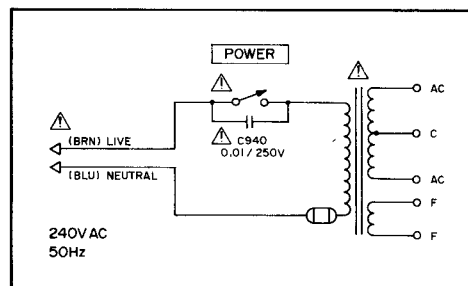
## U.S. A., CANADA



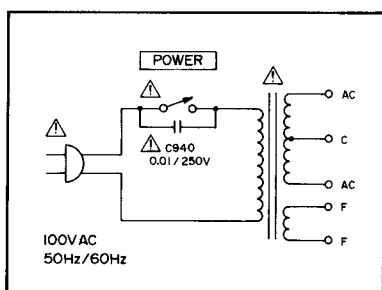
## EUROPE



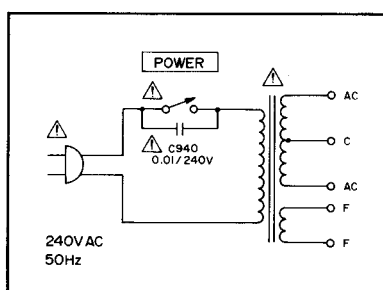
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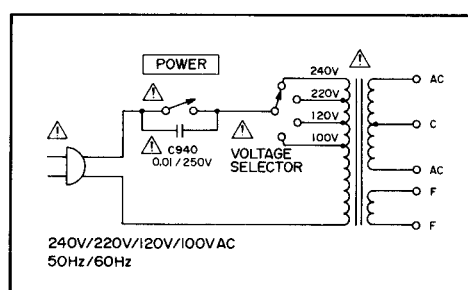
## JAPAN (V-500X ONLY)



## AUSTRALIA



## GENERAL EXPORT



4. Voltage and level values are for reference only.

0 dB = 0.775 V

Indicated values are those existing when the peak level meter indicates 0 dB.

Each Voltage value shown above is the one measured in REC PAUSE position and each mode.

5.    : front panel indication

6.    : rear panel indication

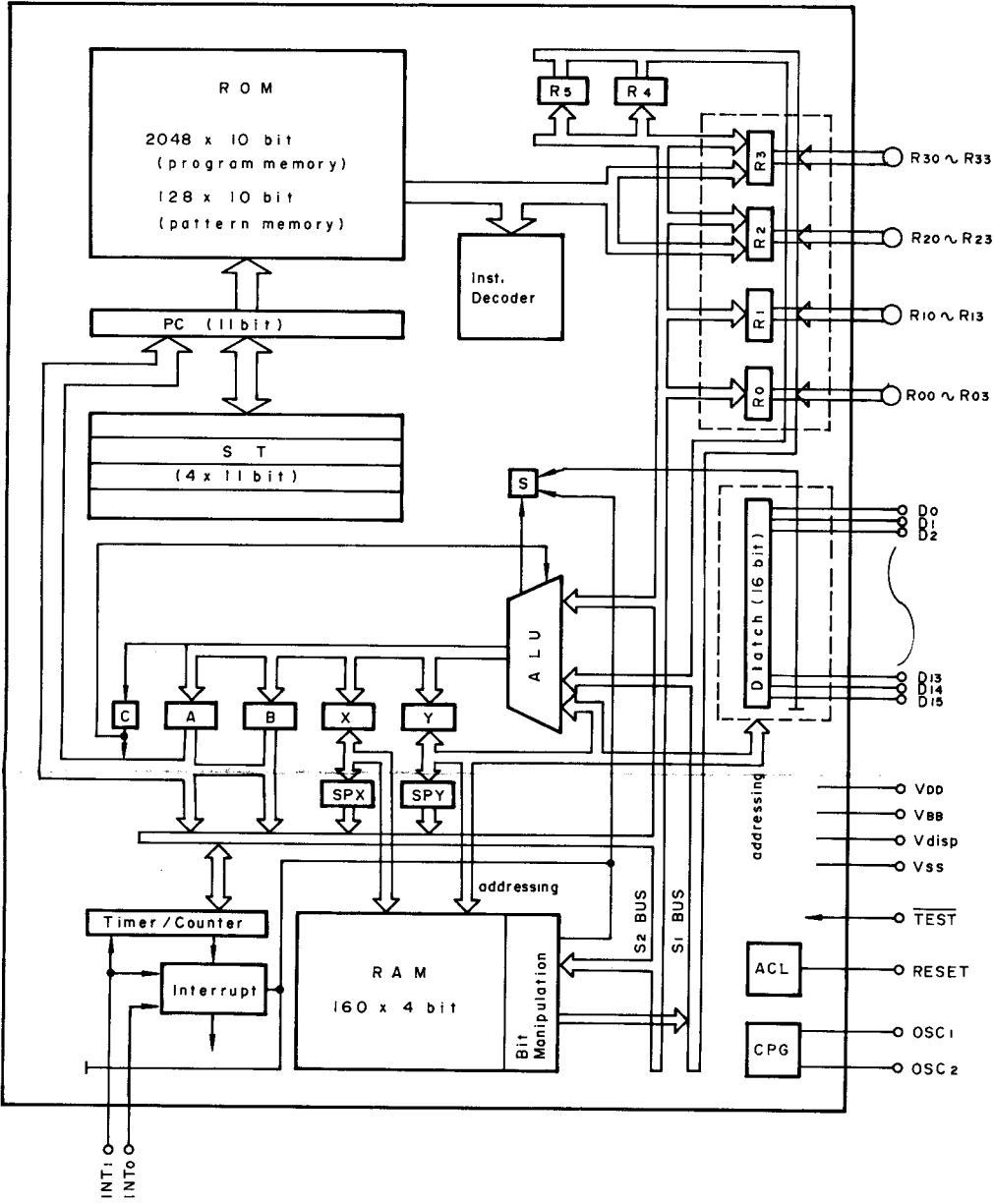
7.    : +B power supply circuit

# V-500X/V-400X

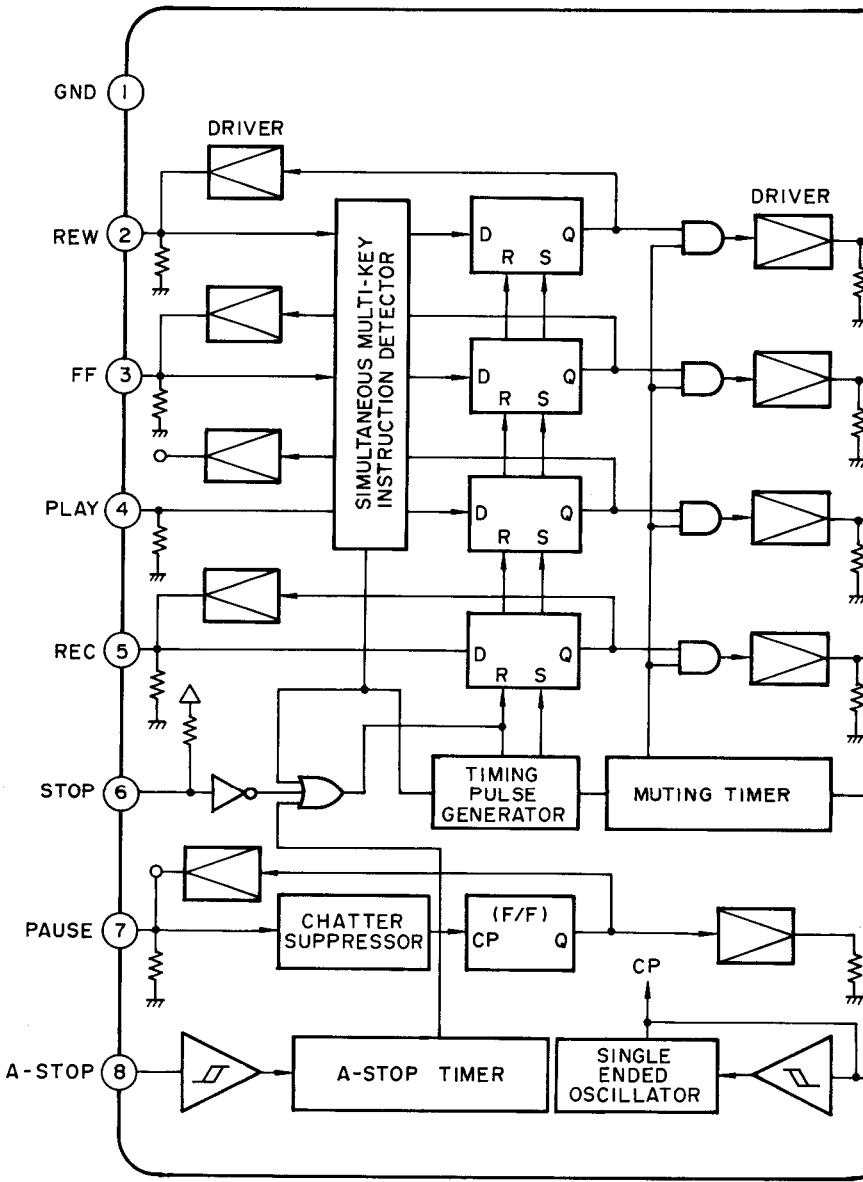
## Stereo Cassette Deck

October, 1983

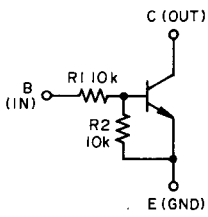
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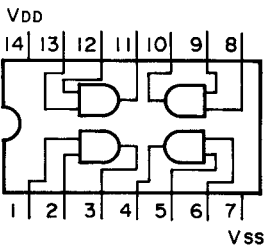
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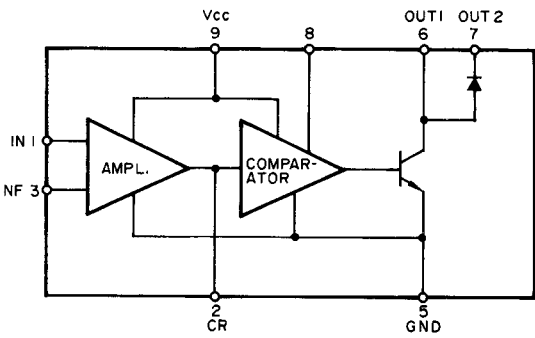
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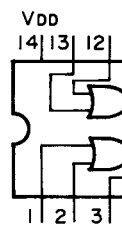
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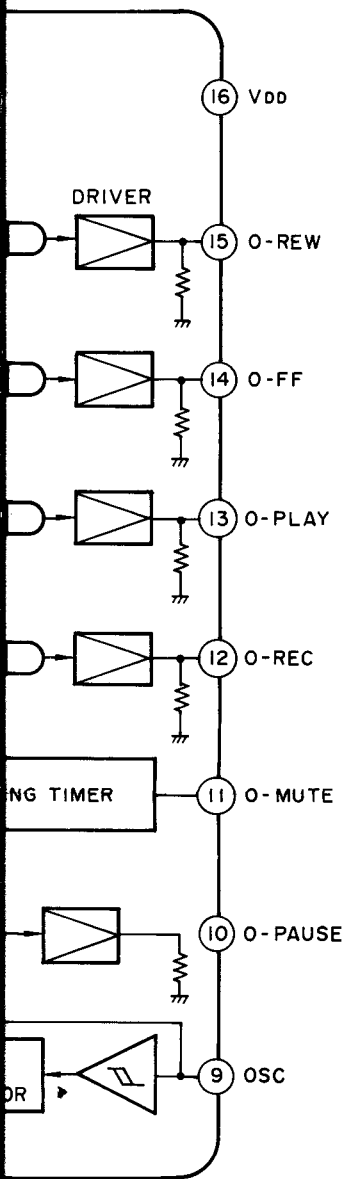


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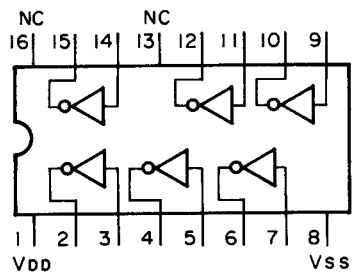


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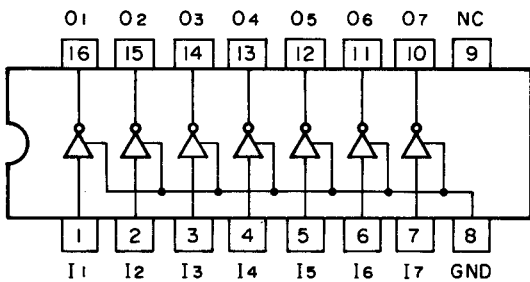




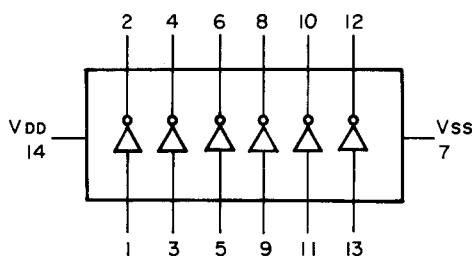
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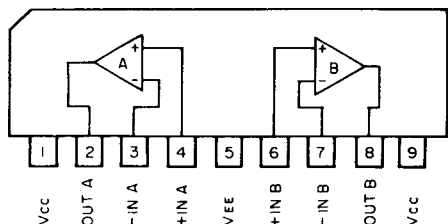
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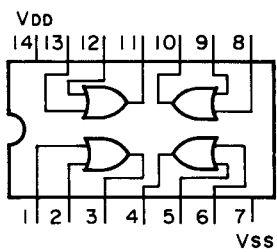
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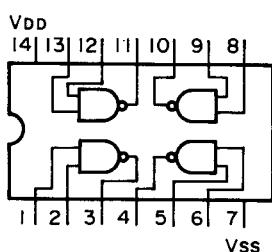
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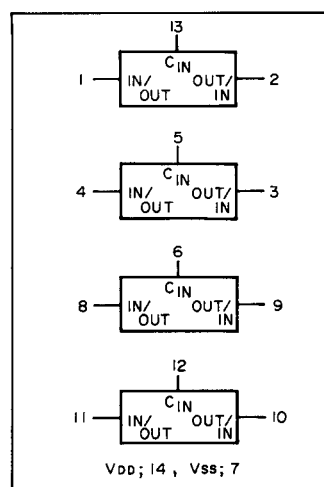
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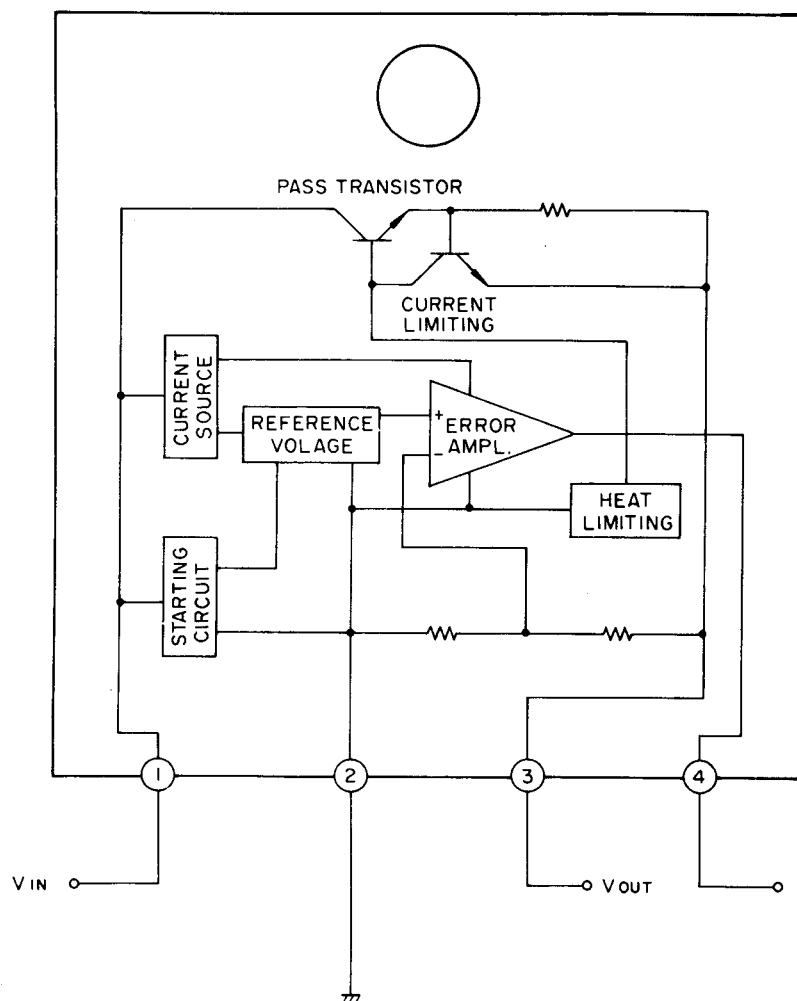
TC4011BP



TC4066BP



AN7812R



**V-500X/V-400X**

**Stereo Cassette Deck**

October, 1983