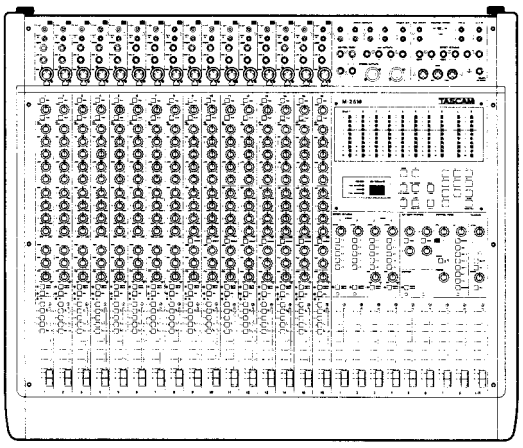


TASCAM
TEAC Professional Division

SERVICE MANUAL

M-2516/2524

RECORDING MIXER

NOTES

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings contained in this manual.

* Parts marked with * require longer delivery time.
* Resistor values are in ohms (k = 1,000 ohms, M = 1,000,000 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.
* 0 dB is referenced to 1V in this manual unless otherwise specified.
* PC boards shown viewed from parts side.
* Parts not shown in the parts lists, or parts, though listed, having no parts numbers, are not general "ready-to-supply" parts.

ADVARSEL!
Lithiumbatteri – Eksplosionsfare ved fejlagtig handtering. Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

注意

標準の抵抗：コンデンサーは省略してあります。回路図及び基板図を参照してください。

1．プリント基板図は部品面が示されています。
2．＊印の部品は納期が若干かかります。あらかじめご了承ください。
3．⚠印は安全規格重要部品です。交換するときは必ずティアック指定の部品を使用して下さい。
4．レベルは0dB＝1Vを基準にしています。
5．コンデンサの単位はμF.p＝pF(1μF＝1,000,000pF)
6．製品が改善されているために、製品と回路図が一部異っている場合があります。
7．リストされていない部品は原則としてサービス供給部品として取扱っていません

VARNING
Explosionsfara vid felaktigt batteribyte.
Anvand samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera anvant batteri enligt fabrikantens instruktion.

Effective: JANUARY, 1991 940749

5704053300

1. SPECIFICATIONS

仕　様

ELECTRONICS

MIC IN (XLR Type Connector, Balanced)

Input Impedance :	2.2 kohms
Input Level :	–67 dBm (0.35 mV, TRIM Max.) ~ +4 dBm (1.23 V, TRIM Min. with PAD)
Trim Range :	41 dB
Pad Sense :	30 dB

LINE IN (1/4" Phone Jack, Balanced/Unbalanced)

Input Impedance :	10 kohms
Input Level :	–50 dBV (3.16 mV, TRIM Max.) ~ +20 dBV (10.0 V, TRIM Min. with PAD)
Trim Range :	41 dB
Pad Sense :	30 dB

TAPE IN (1/4" Phone Jack, Unbalanced)

Input Impedance :	20 kohms
Nominal Input Level :	–10 dBV (0.316 V)
Maximum Input Level :	+15 dBV (5.62 V)

Channel INSERT (TRS 1/4" Phone Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	–10 dBV (0.316 V) ± 1 dB
Maximum Output Level :	+15 dBV (5.62 V)
Input Impedance :	6 kohms
Nominal Input Level :	–10 dBV (0.316 V)
Maximum Input Level :	+15 dBV (5.62 V)

DIRECT OUT (1/4" Phone Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	–10 dBV (0.316 V) ± 1 dB
Maximum Output Level :	+15 dBV (5.62V)

EFFECT RETURN (1/4" Phone Jack, Unbalanced)

Input Impedance :	20 kohms
Nominal Input Level :	10 dBV (0.316 V)
Minimum Input Level :	–20 dBV (0.1 V)

2TR IN (1/4" Phone Jack, Unbalanced)

Input Impedance :	22 kohms
Nominal Input Level :	–10 dBV (0.316 V)
Minimum Input Level :	–20 dBV (0.1 V)

EXT IN (1/4" Phone Jack, Unbalanced)

Input Impedance :	22 kohms
Nominal Input Level :	–10 dBV (0.316 V)
Minimum Input Level :	–20 dBV (0.1 V)

SUB INPUT (1/4" Phone Jack, Unbalanced)

Input Impedance :	22 kohms
Nominal Input Level :	–10 dBV (0.316 V)
Minimum Input Level :	–20 dBV (0.1 V)

GROUP OUTPUTS (RCA Pin Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	–10 dBV (0.316 V)
Maximum Output Level :	+15 dBV (5.62 V)

AUX OUTPUTS (1/4" Phone Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	0dBu (0.775 V)
Maximum Output Level :	+17 dBu (5.5 V)

CONTROL ROOM (1/4" Phone Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	0dBu (0.775 V)
Maximum Output Level :	+17 dBu (5.5 V)

STEREO OUT (XLR Type and 1/4" Phone Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	0dBu (0.775 V)
Maximum Output Level :	+17 dBu (5.5 V)

STUDIO OUT (RCA Pin Jack, Unbalanced)

Output Impedance :	100 ohms
Nominal Output Level :	0dBu (0.775 V)
Maximum Output Level :	+17 dBu (5.5 V)

HEADPHONE OUT
(TRS 1/4" Phone Jack x1)

Nominal Load Impedance:	8 ohms
Maximum Output Level :	100 mW + 100 mW

EQUALIZER

Type :	3 band/2 sweep
Frequency:	
HI	10 kHz, ±12dB (Shelving)
MID	420 Hz ~ 13 kHz
LOW	42 Hz ~ 1.3 kHz
Boost/Cut :	15dB

OL(OverLoad) Indicator

Flashing Level:	25 dB over nominal level

METER

Type :	10-dot LED meter

FADER ATTENUATION : more than 80dB (1kHz)

POWER REQUIREMENTS

USA/CANADA :	120V AC, 60Hz
EUROPE :	220V AC, 50Hz
U.K./AUSTRALIA :	240V AC, 50Hz
GENERAL EXPORT :	100/120/220/240V AC, 50/60Hz
JAPAN:	100V AC, 50/60Hz

POWER CONSUMPTION

M-2516 :	42 W
M-2524 :	54 W

TYPICAL PERFORMANCES

Equivalent Mic Input Noise : –129dB/–130dB
(DIN AUDIO/IHF "A"[150ohms source])

Signal-To-Noise Ratio (DIN AUDIO/IHF "A")

16 MIC INs to GRP OUT (150 ohms source):	54 dB/57 dB
24 MIC INs to GRP OUT (150 ohms source):	51 dB/54 dB
1 LINE IN to GRP OUT:	79 dB/81 dB
16 LINE INs to GRP OUT:	65 dB/68 dB
24 LINE INs to GRP OUT:	63 dB/66 dB
1 LINE IN to AUX OUT:	70 dB/73 dB
1 LINE IN to CR OUT:	77 dB/79 dB (MONI MUTE ON)
16 LINE INs (MONI) to STEREO OUT:	65 dB/68 dB
24 LINE INs (MONI) to STEREO OUT:	63 dB/66 dB

Headphones: 70dB/73dB (HP VR min.)

Total Harmonic Distortion (THD)

1 MIC IN to GRP OUT:	Less than 0.025% (1 kHz)
1 LINE IN to GRP OUT:	Less than 0.025% (1 kHz)

Frequency Response (at nominal level)

MIC IN to GRP OUT:	20 Hz to 20 kHz, +0.5dB/–2dB
LINE IN to GRP OUT:	20 Hz to 20 kHz, +0.5dB/–2dB

Crosstalk

GRP OUT:	Better than 65dB (1kHz)
STEREO OUT:	Better than 65dB (1kHz)
Other Outputs:	Better than 60dB (1kHz)

Click Noise:	Less than –35dB

OTHERS

Dimensions (W x H x D)

M-2516:	775 x 160 x 642 mm (30-1/2" x 6-5/16" x 25-1/4")
M-2524:	999 x 160 x 642 mm (39-5/16" x 6-5/16" x 25-1/4")

Weight

M-2516:	20 kg (44-1/16 lbs)
M-2524:	26 kg (57-5/16 lbs)

INSTRUCTIONS FOR SERVICE PERSONNEL

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

＊仕様および外観は改善のため、予告なく変更することがあります。

2. LEVEL SETTINGS AND OPERATION CHECKS

レベル・セットと動作チェック

2-1. MIC Input Check (MIC Input -> INSERT : Fig.2-1)

1. Set TRIM to minimum and turn PAD on.
2. Apply a 1 kHz, +4 dBm signal to the MIC input connectors and check that the output level at the INSERT jacks is –10 ±5 dBV.
3. Set TRIM to maximum and turn PAD off.
4. Apply a 1 kHz, –67 dBm signal to the MIC input connectors, and check that the output level at the INSERT jacks is –10 ±4 dBV.
5. Apply the nominal input level of 1 kHz, –60 dBV to the MIC input connectors, and adjust TRIM until the output level at the INSERT jacks is –10 dBV. Then, check to see that TRIM is now between the 2 and 4 o'clock position.
6. With the same conditions as in step 4, turn PAD on and check for a 30 dB drop in the INSERT output level.
7. Turn the PHANTOM POWER switch on and check for the following output voltages at every MIC input connectors :

   +48 V between HOT (pin 3) and GND (pin 1)
   +48 V between COLD (pin 2) and GND (pin 1)

２－１．ＭＩＣ入力チェック

(MIC IN--->INSERT ：図2-1)

1．TRIMを最少にし，PAD をONにする．
2．MIC INに1kHz,+4dBmを入力したとき，INSERTジャックの出力レベルが -10±5dBVであることを確認する．
3．TRIMを最大にし，PAD をOFF にする．
4．MIC INに1kHz,-67dBm を入力したとき，INSERTジャックの出力レベルが -10±4dBVであることを確認する．
5．MIC INに基準入力信号(1kHz,-60dBV) を入力し，INSERTジャックの出力レベルが -10dBV になるようにTRIMつまみをセットする．このとき，TRIMつまみが２～４時の位置であることを確認する．
6．４項の状態でPAD をONにしたとき，INSERTジャックの出力レベルが -30dB減衰することを確認する．
7．PHANTOM POWER スイッチをONすることにより，全MIC 入力の端子間に以下に示す電圧が出力されることを確認する．

   HOT (3番) －GND(1 番)　　+48V
   COLD(2番) －GND(1 番)　　+48V

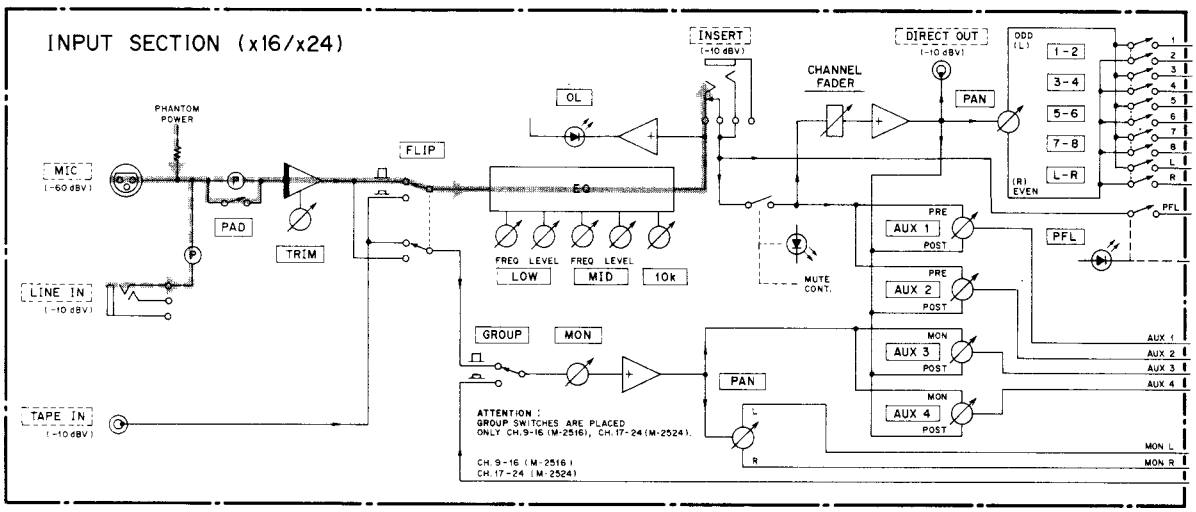


Fig. 2-1

図2-1

2-2. LINE IN Check (LINE IN -> INSERT : Fig. 2-1)

Connect the nominal input signal of 1 kHz, –10 dBV to the LINE IN jacks and adjust TRIM until the output level at the INSERT jacks is –10 dBV. Then, check to see that TRIM is now between the 8 and 10 o'clock position.

2-3. EQ Characteristic Check (MIC Input -> INSERT : Fig.2-1)

With the same conditions as in paragraph 2-2, turn each EQ amount knob fully left and right while sweeping the input signal frequency over the specific range, to check that the output level at the INSERT jacks increases and decreases by the amounts specified below from the output level provided by a 1 kHz input signal :

HIGH Shelving EQ (10 kHz)
MAX +12 dB : ±2.0 dB
MIN –12 dB : ±2.0 dB

MID Parametric EQ (420 Hz to 13 kHz)
MAX +15 dB : +4.0 dB
–2.0 dB
MIN –15 dB : +2 dB
–4 dB

LOW Parametric EQ (42 Hz to 1.3 kHz)
MAX +15 dB : +4 dB
–2 dB
MIN –15 dB : +2 dB
–4 dB

2-4. OL Flashing Level

Check that the OL indicators light when the output level at the INSERT jacks is within the following limits :

+13 dBV +2 dB
–1 dB

２－２．ＬＩＮＥ入力チェック
(LINE IN--->INSERT : 図2-1)

LINE IN に基準入力信号(1kHz,-10dBV) を入力したとき，INSERTジャックの出力レベルが -10dBV になるようにTRIMつまみをセットする．このとき，TRIMつまみが８～１０時の位置にあることを確認する．

２－３．ＥＱ特性チェック
(MIC IN--->INSERT:図2-1)

２－２項に於いて，入力信号の周波数と各EQつまみを最大，最少にセットしたとき，出力レベルが周波数 1kHz を基準にして次の通り変化することを確認する．

シェルビング　ＥＱ　HIGH(10kHz)
MAX +12dB ±2.0dB
MIN -12dB ±2.0dB
パラメトリック　ＥＱ　MID(420Hz ～13kHz)
MAX +15dB +4.0dB
-2.0dB
MIN -15dB +2.0dB
-4.0dB
パラメトリック　ＥＱ　LOW(42Hz～1.3kHz)
MAX +15dB +4.0dB
-2.0dB
MIN -15dB +2.0dB
-4.0dB

２－４．ＯＬ点灯レベル

INSERTジャックの出力レベルが下記レベル内で点灯すること．

+13dBV +2dB
-1dB

2-5. Input Faders (INSERT -> D OUT : Fig.2-2)

1. Apply the nominal input signal of 1 kHz, –10 dBV to the INSERT jacks, set the input faders to "0" on their scale and check for –10 ±2 dBV at the D(irect) OUT jacks.
2. Adjust the input faders for –10 dBV at the D OUT jacks.
3. Input MUTE Check :

   With the input faders set as in step 2, turn the MUTE switches on to check that their LED turns on and the output at the D OUT jacks is muted.

2－5．INPUTフェーダー
(INSERT--->DIRECT OUT:図2-2)

1．INSERTジャックに基準入力信号(1kHz,-10dBV) を入力し，INPUT フェーダーをパネルの“0”表示の位置にセットしたとき，DIRECT OUTの出力が -10±2dBVであることを確認する．
2．DIRECT OUTの出力が -10dBV になるように INPUTフェーダーをセットする．
3．INPUT MUTEチェック
2項の状態で，INPUT MUTEスイッチをONにしたとき LEDが点灯し DIRECT OUT の出力が MUTE されることを確認する．

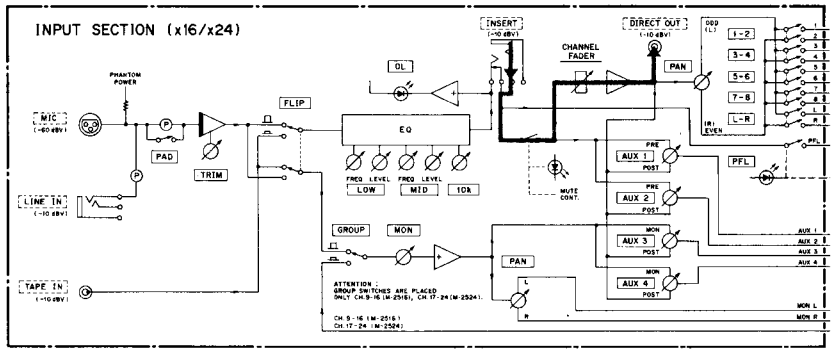


Fig. 2-2
図2-2

2-6. Group Master Faders (INSERT -> GROUP OUTPUTS : Fig.2-3)

1. With the input faders set to their nominal position, set the input PAN controls to ODD (L) and turn on the group assignment 1-2 switches.
2. Connect the nominal input signal of 1 kHz, –10 dBV to the INSERT jacks and set the group 1 master fader to "0" on the scale, to check for –10 ±2 dBV at GROUP OUTPUT 1.
3. Adjust the group 1 master fader until the level at GROUP OUTPUT 1 is –10 dBV.
4. In a similar way, set the remaining group master faders (2 through 8).

2－6．GRP MASTERフェーダー
(INSERT--->GROUP OUT: 図2-3)

1．INPUT フェーダーが基準位置にセットされた状態で，INPUT PAN つまみをODD(L)，グループ・アサイン・スイッチ 1-2をONにする．
2．INSERTジャックに基準入力信号(1kHz,-10dBV) を入力し，GROUP MASTER 1フェーダーをパネルの“0”表示の位置にセットしたとき，GROUP OUT 1 の出力が -10±2dBVであることを確認する．
3．GROUP OUT 1 の出力が -10dBV になるように，GROUP MASTER 1フェーダーをセットする．
4．同様に，GROUP MASTER 2～8 フェーダーをセットする．

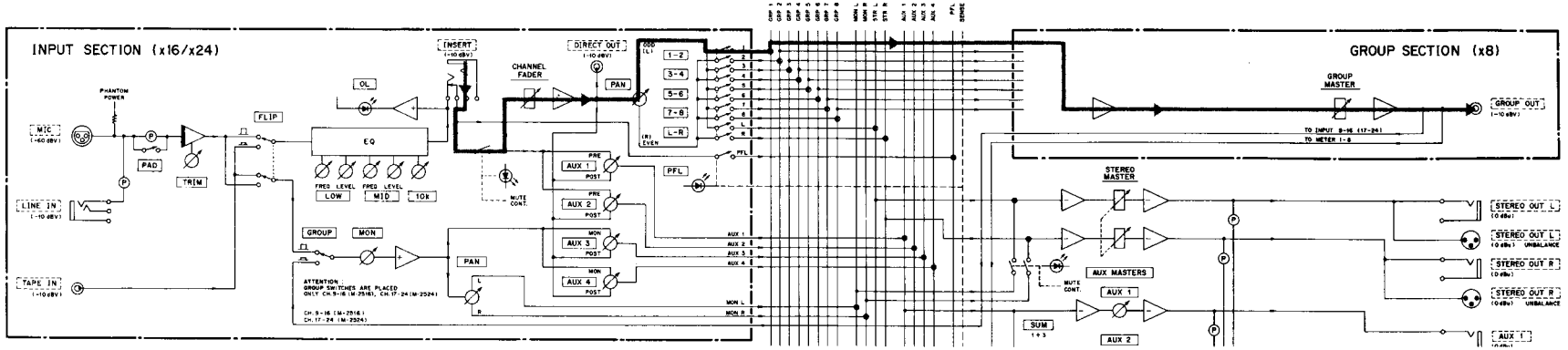


Fig. 2-3
図2-3

2-7. Stereo Master Fader (LINE IN -> STEREO OUTPUTS : Fig.2- 4)

1. With the TRIM and input faders set to their nominal position, set the input PAN controls to ODD (L) and press the L-R stereo assignment switches.
2. Connect the nominal input signal of 1 kHz, –10 dBV to the LINE IN jacks and set the L-R stereo master fader to "0" on the scale, to check for 0 ±2 dBu at the L jack of STEREO OUTPUTS.
   Similarly, set PAN to EVEN (R) to check for 0 ±2 dBu at the R jack of STEREO OUTPUTS.
3. Set the input PAN controls to ODD (L) and adjust the stereo master fader for 0 dBu at the L jack of STEREO OUTPUTS.

2－7．STEREO MASTERフェーダー (LINE IN--->STEREO OUT: 図2-4)

1．TRIMつまみ，INPUTフェーダーが基準位置にセットされている状態で，INPUT PAN つまみをODD(L)，グループ・アサイン・スイッチ L-RをONにする．
2．LINE IN に基準入力信号(1kHz,-10dBV) を入力し，STEREO MSTER フェーダーをパネルの“0”表示の位置にセットしたとき，STEREO OUT Lの出力が 0±2dBuであることを確認する．
   又，INPUT PAN つまみをEVEN(R) にしたとき，同様にSTEREO OUT Rの出力が 0±2dBuであることを確認する．
3．INPUT PAN つまみをODD(L)にし，STEREO OUT Lの出力が 0dBuになるように STEREO MASTERフェーダーをセットする．

2-8. MON Controls (TAPE IN -> STEREO OUTPUTS : Fig.2-4)

1. With the stereo master fader set to its nominal position, set the monitor PAN controls to L.
2. Connect the nominal input signal of 1 kHz, –10 dBV to the TAPE IN jacks and adjust the MON controls for 0 dBu at the L jack of STEREO OUTPUTS.
3. Monitor MUTE Check :

   With the MON controls set as in step 2, press the monitor MUTE switches to check that their LED lights and the signal at the L jack of STEREO OUTPUTS is muted.

2－8．MONつまみ (TAPE IN--->STEREO OUT: 図2-4)

1．STEREO MASTER フェーダーが基準位置にセットされた状態で，MONITOR PAN つまみを Lにする．
2．TAPE IN に基準入力信号(1kHz,-10dBV) を入力し，STEREO OUT L の出力が 0dBu になるように，MON つまみをセットする．
3．MONITOR MUTEチェック
   2項の状態で，MONITOR MUTEスイッチをONにしたとき LEDが点灯し STEREO OUT L の出力がMUTEされることを確認する．

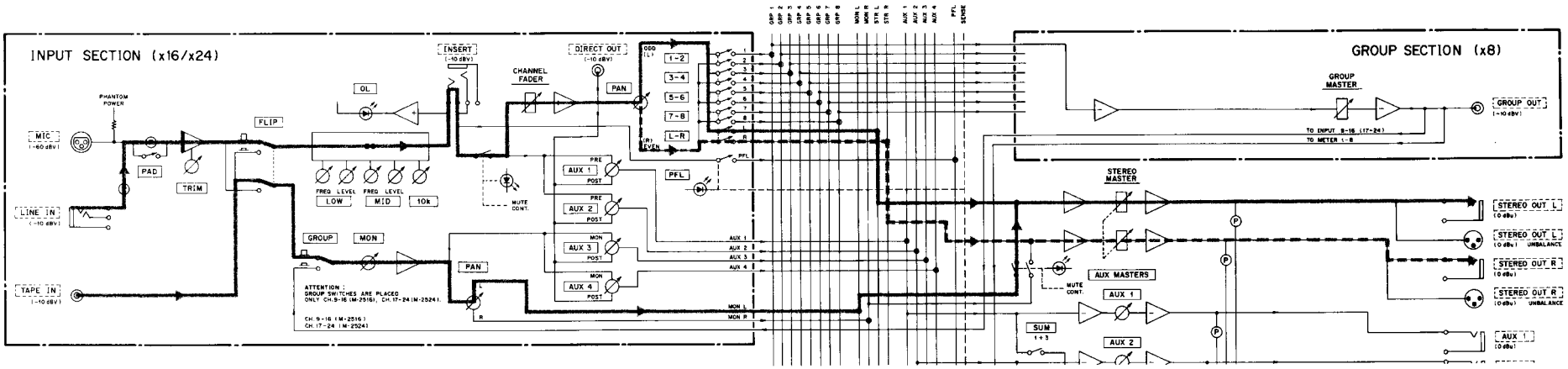


Fig. 2-4
図2-4

2-9. AUX SEND MASTERS (INSERT -> AUX OUTPUTS : Fig.2-5)

1. With the input faders set to their nominal position, set the channels' AUX 1-4 controls to POST.
2. Apply the nominal input signal of 1 kHz, –10 dBV to the INSERT jacks and adjust the AUX SEND MASTERS 1-4 for 0 dBu at AUX OUTPUTS 1-4.
3. Turn the AUX 1-2 controls all the way to the left (PRE) and check for 0 ±2 dBu at AUX OUTPUTS 1 and 2.
4. With the MON controls set to their nominal position, set the AUX 3-4 controls to MON and apply the nominal input signal of 1 kHz, –10 dBV to the TAPE IN jacks, to check for 0 ±2 dBu at AUX OUTPUTS 3 and 4.

2－9．AUX MASTERつまみ (INSERT--->AUX OUT: 図2-5)

1．INPUT フェーダーが基準位置にセットされている状態で，AUX 1 ～4 つまみをPOSTにセットする．
2．INSERTジャックに基準出力信号(1kHz,-10dBV) を入力したとき，AUX 1 ～4 OUT の出力が 0dBu になるように AUX 1 ～4 MASTERつまみをセットする．
3．AUX 1,2 つまみをPRE にしたとき，AUX 1,2 OUT の出力が 0 ±2dBuになることを確認する．
4．MON つまみが基準位置にセットされている状態で，AUX 3,4 つまみをMON にし，TAPE IN に基準入力信号(1kHz,-10dBV) を入力する．このとき，AUX 3,4 OUT の出力が 0±2dBuになることを確認する．

2-10. EFFECT RETURN LEVEL Controls (EFFECT RETURNS -> GROUP OUTPUT 1 : Fig.2-5)

1. Turn on the group assignment 1-2 switches of EFFECT RETURNS 1 and 2.
2. With the group master faders set to their nominal position, connect the nominal input signal of 1 kHz, –10 dBV to the L/MONO jack of EFFECT RETURN 1, and adjust the EFFECT RETURN LEVEL 1 control for –10 dBV at GROUP OUTPUT 1.
3. In a similar way, set the EFFECT RETURN LEVEL 2 control.
4. Turn on the group assignment 1-2 switches of EFFECT RETURNS 3 and 4 and set the PAN control of EFFECT RETURNS 3 and 4 to the L side.
5. Connect the nominal input signal of 1 kHz, –10 dBV to EFFECT RETURN jack 3, and adjust the EFFECT RETURN LEVEL 3 control for –10 dBV at GROUP OUTPUT 1.
6. In a similar way, set the EFFECT RETURN LEVEL 4 control.
7. Effect Return MUTE Check :
   With the inputs/outputs set as above, turn on the EFFECT RETURN MUTE switches to check that their LED light and the GROUP OUTPUT 1 signal is muted.

2－10．EFF RTN LEVELつまみ (EFF RETURN--->GROUP 1 OUT: 図2-5)

1．EFF RTN 1,2 のグループ・アサイン・スイッチ 1-2をONにする．
2．GROUP MASTERフェーダーが基準位置にセットされている状態で，EFF RTN 1 ジャックのL/MONOに，基準入力信号(1kHz,-10dBV) を入力する．このときGROUP 1 OUT の出力が -10dBV になるように EFF RTN 1 LEVELつまみをセットする．
3．同様に，EFF RTN 2 LEVEL つまみをセットする．
4．EFF RTN 3,4 のグループ・アサイン・スイッチ 1-2をONにし，EFF RTN PAN 3,4 つまみをL 側にセットする．
5．EFF RTN 3 ジャックに，基準入力信号(1kHz,-10dBV) を入力する．このとき，GROUP 1 OUT の出力が -10dBV になるように EFF RTN 3 LEVELつまみをセットする．
6．同様に，EFF RTN 4 LEVEL つまみをセットする．
7．EFF RTN MUTEチェック
上記入出力状態で，EFF RTN MUTEスイッチをONにしたときLED が点灯し GROUP 1 OUTの出力がMUTEされることを確認する．

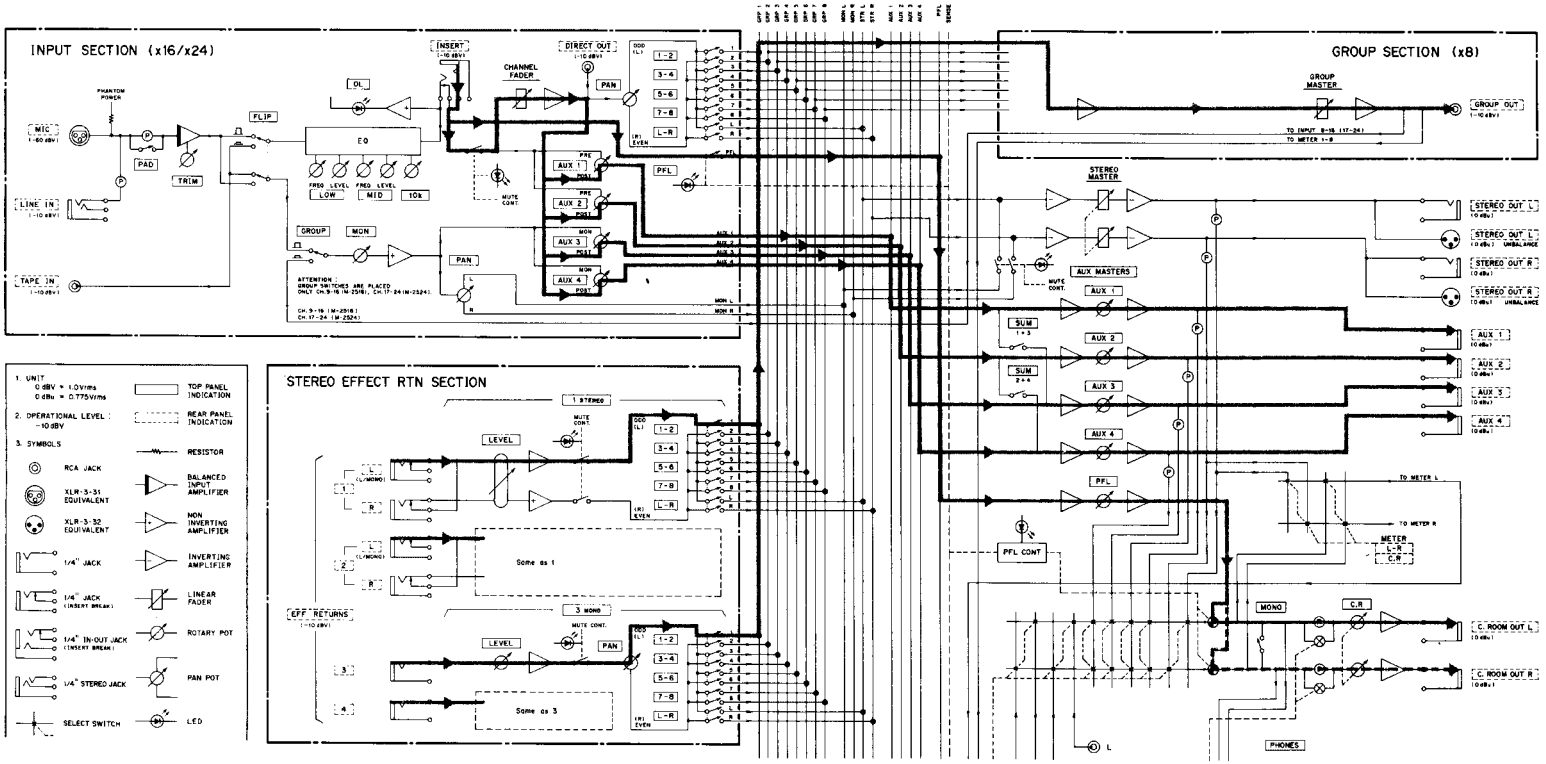


Fig. 2-5 図2-5

2-11. CR Level Control (2TR/EXT IN -> CONTROL ROOM Outputs : Fig.2-6)

1. Turn on the control room source 2TR select switch.
2. Connect the nominal input signal of 1 kHz, –10 dBV to the 2TR IN L jack and adjust the CR level control for 0 dBu at the CONTROL ROOM output L jack.
3. Connect the nominal input signal of 1 kHz, –10 dBV to the 2TR IN R jack and check for 0 ±2 dBu at the CONTROL ROOM output R jack.
4. Press the control room source EXT select switch and connect the nominal input signal of 1 kHz, -10 dBV to the EXT IN L jack, to check for 0 ±2 dBu at the CONTROL ROOM output L jack.
5. Control Room MONO Switch Check :
   With the CONTROL ROOM L output fed with the EXT IN L input as in step 4, turn on the MONO switch, to check that the CONTROL ROOM L and R outputs are mixed to mono (the level drop shall be about 6 dB).

2-12. PHONES Level Control (2TR IN -> Headphone Output : Fig.2-6)

1. Connect the nominal input signal of 1 kHz, –10 dBV to the 2TR IN L jack and adjust the PHONES control for nominal output level at the tip (L) of the headphone jack.
2. Connect the nominal input signal to the 2TR IN R jack and compare the level at the ring (R) of the headphone jack with the reference level. The tolerance is ±2 dB.

2-13. STUDIO Level Control (2TR IN -> STUDIO OUT : Fig.2-6)

1. Connect the nominal input signal of 1 kHz, –10 dBV to the 2TR IN L jack and turn on the STUDIO ON switch, then adjust the STUDIO level control for 0 dBu at the STUDIO OUTPUT L jack.
2. Connect the nominal input signal of 1 kHz, –10 dBV to the 2TR IN R jack and check for 0 dBu ±2 dB at the STUDIO OUT R jack.

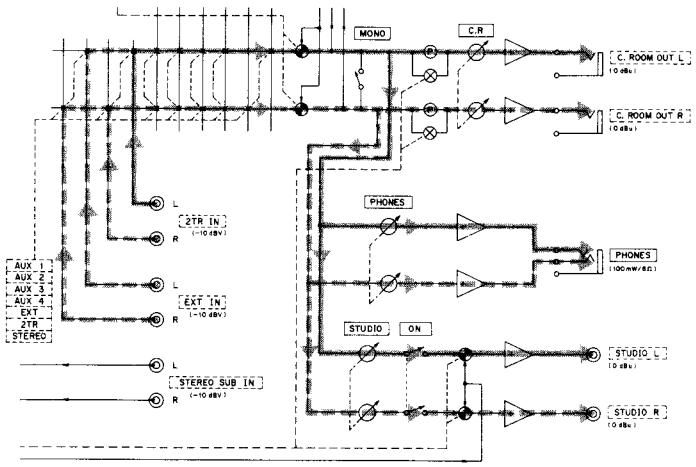


Fig. 2-6 図2-6

2－11．C．Rつまみ (2TR(EXT) IN--->C.ROOM OUT: 図2-6))

1．コントロール・ルーム選択スイッチの2TR をONにする．
2．2TR IN(L) に基準入力信号(1kHz,-10dBV) を入力したとき，C.ROOM OUT(L) の出力が 0dBu になるように C.Rつまみをセットする．
3．2TR IN(R) に基準入力信号(1kHz,-10dBV) を入力したとき，C.ROOM OUT(R) の出力が 0±2dBuであることを確認する．
4．コントロール・ルーム選択スイッチのEXT をONにし，EXT IN(L) に基準入力信号(1kHz,-10dBV) を入力したとき，C.ROOM OUT(L) の出力が 0±2dBuであることを確認する．
5．MONOスイッチチェック
4項の状態で MONO スイッチをONにしたとき，C.ROOM OUT (L),(R) の出力がモノラルになることを確認する．
（レベル減衰量は 6dB程度のこと．）

2－12．PHONESつまみ (2TR IN--->PHONES OUT:図2-6))

1．2TR IN(L) に基準入力信号(1kHz,-10dBV) を入力したとき，PHONE OUT(L)の出力が基準レベルになるように PHONES つまみをセットする．
2．2TR IN(R) に基準入力信号(1kHz,-10dBV) を入力したとき，PHONE OUT(R)の出力と基準レベルとの誤差は±2dB 以内であることを確認する．

2－13．STUDIOつまみ (2TR IN--->STUDIO OUT:図2-6))

1．2TR IN(L) に基準入力信号(1kHz,-10dBV) を入力したとき，STUDIO ON スイッチをONにする．このとき STUDIO OUT(L) の出力が 0dBu になるように STUDIO つまみをセットする．
2．2TR IN(R) に基準入力信号(1kHz,-10dBV) を入力したとき，STUDIO OUT(R) の出力が 0dBu ±2dB であることを確認する．

2-14. PFL Level Control (INSERT -> CONTROL ROOM Outputs : Fig.2-5)

1. With the CR level control properly set (as in paragraph 2-11), turn on the channels' PFL switches, connect the nominal input signal of 1 kHz, –10 dBV to the INSERT jacks, and adjust the PFL level control for 0 dBu at the CONTROL ROOM L output jack.
2. When the CONTROL ROOM L output is being fed with a 0 dBu, check for 0 ±2 dBu at the CONTROL ROOM R output jack.

2-15. TALKBACK Check

1. While speaking into the built-in talkback mic, check that the voice is available at GROUP OUTPUTS and STUDIO OUT as selected by the talkback assignment switches :

Talkback Assignment Switch	Output Jack
SLATE	GROUP OUTPUTS 1 through 8
TB	STUDIO L and R

2. Check that the output level varies as the TALKBACK LEVEL control is turned up and down.

2-16. Meter Adjustments

1. GROUP Meters
When the GROUP OUTPUTS 1-8 are feeding a nominal output level, adjust potentiometers R101 through R801 on the GRP I/O PCB (Fig. 2-7) until only 1 red LED ("0") of each of the GROUP 1-8 meters lights.

2. STEREO Meters
When the STEREO OUTPUTS L and R jacks are feeding a nominal output level, set the METER select switch to its L-R (Up) position, and adjust potentiometers R1 (L) and R2 (R) on the GRP I/O PCB until only 1 red LED ("0") of both the L and R meters lights.

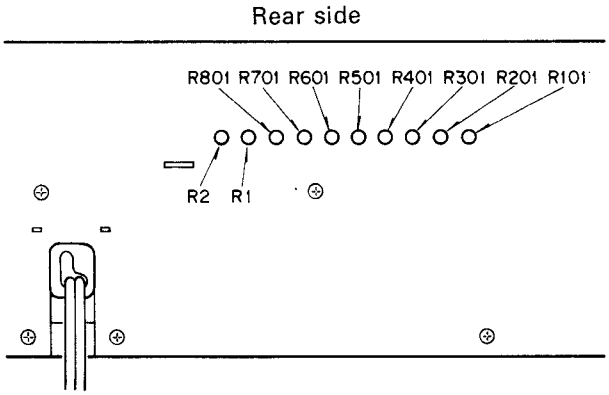


Fig. 2-7 図2-7

2－14．ＰＦＬつまみ

(INSERT--->C.ROOM OUT:図2-5)

1．C.R つまみがセットされた状態で，PFL スイッチをONにし，INSERTジャックに基準入力信号(1kHz,-10dBV) を入力する．このとき，C.ROOM OUT(L) の出力が 0dBu になるようにPFL つまみをセットする．

2．1項のとき，C.ROOM OUT(R) の出力は 0±2dBuであることを確認する．

2－15．ＴＢチェック

1．TB MICに音声を入力し，SLATE,TBスイッチの選択により，各出力端子に音声出力が現れることを確認する．

入力選択 SW	出力端子
ＳＬＡＴＥ	GROUP 1 ～8
ＴＢ	STUDIO L,R

2．MIC LEVEL つまみを回すことによって，出力レベルが変化することを確認する．

2－16．メーター調整

1．GROUP メーター

GROUP OUT 1 ～8 が基準出力状態のとき，GROUP 1 ～8 のメーターＬＥＤの赤が１ドットのみ点灯するように GRP I/O PCBの半固定抵抗R101～R801（図2-7 ）を調整する．

2．STEREOメーター

STEREO OUT L,Rが基準出力状態のとき，METER SELECTスイッチ L-Rを選択する．このとき，STEREO L,RメーターＬＥＤの赤が１ドットのみ点灯するように GRP I/O PCBの半固定抵抗R1(L),R2(R) （図2-7 ）

2-17. Frequency Response

When the mixer is set for nominal inputs/outputs, frequency responses are as follows :

MIC Input -> GROUP OUTPUT : 20 Hz to 20 kHz ±2 dB
LINE IN -> GROUP OUTPUT : 20 Hz to 20 kHz ±2 dB

2-18. S/N Ratio

S/N ratio is measured with the input/output controls of each signal system set to their nominal position. Specifications are as follows :

	DIN AUDIO
1 LINE IN -> GROUP OUT	80 dB
1 LINE IN -> AUX OUT	70 dB
1 LINE IN -> C.ROOM OUT	70 dB
1 LINE IN -> STUDIO OUT	70 dB
HEADPHONES	70 dB
16 MIC INs -> GROUP OUT (150-ohm input load)	54 dB
24 MIC INs -> GROUP OUT (150-ohm input load)	52 dB
16 LINE INs -> STEREO OUT	62 dB
24 LINE INs -> STEREO OUT	60 dB

2-19. Distortion

Distortion is measured with the input/output controls of each signal system set to their nominal position (and a 400 Hz HPF and 30 kHz LPF inserted). Specifications are as follows :

1 MIC IN -> GROUP OUT : 0.025%
1 LINE IN -> GROUP OUT : 0.025%

NOTE : When measuring distortion for MIC IN, connect an input signal whose level is 40 dB above nominal level (i.e., 1 kHz, -17 dBm) and turn PAD on. (As for LINE IN, connect a nominal level signal and turn PAD off.)

2－17．周波数特性

基準入出力状態に於いて，周波数特性は下記の通りです．

MIC IN --->GROUP OUT 20～20kHz ±2dB

LINE IN--->GROUP OUT 20～20kHz ±2dB

2－18．S／N

各系統の入出力つまみが規定位置にセットされた状態で，測定します．規格は次の通りです．

	DIN AUDIO
• 1 LINE IN--->GROUP OUT	80dB
• 1 LINE IN--->AUX OUT	70dB
• 1 LINE IN--->C.ROOM OUT	70dB
• 1 LINE IN--->STUDIO OUT	70dB
• HEAD PHONES	70dB
• 16 MIC IN--->GROUP OUT （入力抵抗150 Ω）	54dB
• 24 MIC IN--->GROUP OUT （入力抵抗150 Ω）	52dB
• 16 LINE IN--->STEREO OUT	62dB
• 24 LINE IN--->STEREO OUT	60dB

2－19．歪率

各系統の入出力つまみが規定位置にセットされた状態で，測定します．(400HzH.P.F.30kHzL.P.F使用)

• 1 MIC IN --->GROUP OUT 0.025%

• 1 LINE IN--->GROUP OUT 0.025%

注）．MIC INの場合は，入力レベルを基準入力の 40dB UPの 1kHz.-17dBm にし，PAD ONの状態で行って下さい．
（LINE IN の場合は，基準入力.PAD OFFです．）

3. MIDI OPERATION CHECKS

MIDI動作チェック

3-1. Program Change Check

1. Press the PGM CHANGE/LOAD key, and check to see that the SCENE LED turns off and the PGM CHANGE LED blinks.
2. Press the UP key so that the display shows "ON".
3. Press the SCENE key to check that the PGM CHANGE LED turns on solid.

3-2. Control Change Check

1. Hold the SHIFT key down and press the NOTE/CTRL CHANGE key. Check to see that the SCENE LED turns off and the CTR CHANGE LED is blinking.
2. Press the UP key so that the display shows "ON".
3. Press the SCENE key to check that the CTR CHANGE LED turns on.

3-3. Note Message Check

1. Press the NOTE/CTRL CHANGE key. Check to see that the SCENE LED turns off and the NOTE LED is blinking.
2. Press the UP key so that the display shows "ON".
3. Press the SCENE key to check to see that the NOTE LED turns on.

3-4. MIDI Signal Input/Output Check

The M-2524/2516's microcomputer provides a "hidden" function for use by service personnel only : sending out a special MIDI signal from the MIDI OUT jack.
This MIDI OUT signal must be fed to the microcomputer through the MIDI IN jack (the MIDI RECEIVE LED will then light).
Besides, the signal fed into the MIDI IN jack need be sent out from the MIDI THRU jack and be fed into a sound source module. Check is complete if the module produces a music.

3－1．プログラム・チェンジ　チェック

1．［PGM CHANGE/LOAD ］キーを押す．
　このとき，SCENE の LEDが消灯し，PGM CHANGEの LEDが点滅することを確認する．
2．［UP］キーを押し，LED 表示を“ON” にする．
3．［SCENE]キーを押したとき，PGM CHANGEのLED が点灯することを確認する．

3－2．コントロール・チェンジ　チェック

1．［SHIFT ］キーを押しながら，［NOTE/CTRL CHANGE］キーを押す．
　このとき，SCENE の LEDが消灯し，CTRL CHANGE の LEDが点滅することを確認する．
2．［UP］キーを押し，LED 表示を“ON” にする．
3．［SCENE]キーを押したとき，CTRL CHANGE のLED が点灯することを確認する．

3－3．ノート・メッセージ　チェック

1．［NOTE/CTRL CHANGE］キーを押す．
　このとき，SHENE の LEDが消灯し，NOTEの LEDが点滅することを確認する．
2．［UP］キーを押し，LED 表示を“ON” にする．
3．［SCENE]キーを押したとき，NOTEの LEDが点灯することを確認する．

3－4．MIDI信号入出力チェック

M-2524/M-2516 のマイコン裏仕様により，MIDI OUTよりMIDI信号が出力されます．
この信号が MIDI INを経由して，マイコンに入力されたことを確認します．（このとき，MIDI RECEIVEの LEDが点滅する．）
又，MIDI IN に入力された信号は，同時に MIDI THRUより出力され音源モジュールに入ります．音源モジュールから音楽が流れれば，MIDI信号入出力のチェックは終了します．

Check Procedure

1. Perform connections as shown in Figure 3-1.
2. Press the NOTE/CTR CHANGE key. The SCENE LED will turn off and the NOTE LED will start blinking.
3. Press the UP key to set the MIDI channel to "02".
4. Press the SCENE key. The CTR CHANGE LED will turn off and the NOTE LED will turn on solid.
5. Set the SCENE NO. to "99", and press the RECALL/STORE key.
6. Hold the SHIFT key down and press the number 5 key. Confirm that the sound source module plays "Nocturne" of Chopin.

NOTE : Set the MIDI channel of the sound source module to 2 CH.

チェック方法

1．図3-1 のように接続する．

2．［ NOTE/CTR CHANGE ］キーを押す．

このとき，SCENE LED が消灯し，NOTE LEDが点滅すること．

3．［ UP ］キーを押し，MIDI CH を “02” にする．

4．［ SCENE ］キーを押す．

このとき，CTR CHANGEのLED が消灯し，NOTE LEDが点灯すること．

5．上記状態で，SCENE No. を “99” にし，［ RECALL/STORE ］キーを押す．

6．次に，［ SHIFT ］キーを押しながら，［ 5 ］キーを押す．

このとき，音源モジュールから “ショパン ノクターン” のメロディーが流れることを確認する．

注）．音源モジュールのMIDIチャネルは，2CH に設定して下さい．

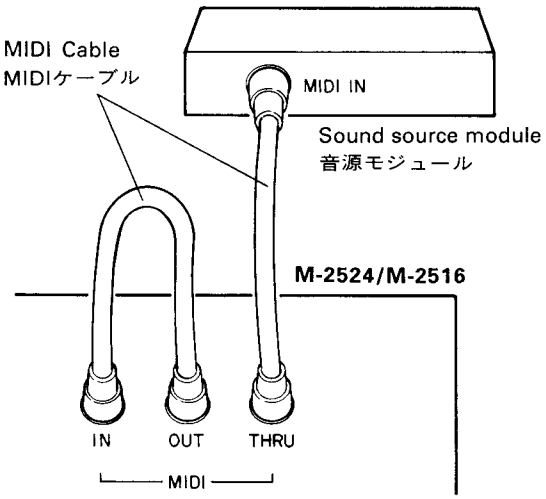
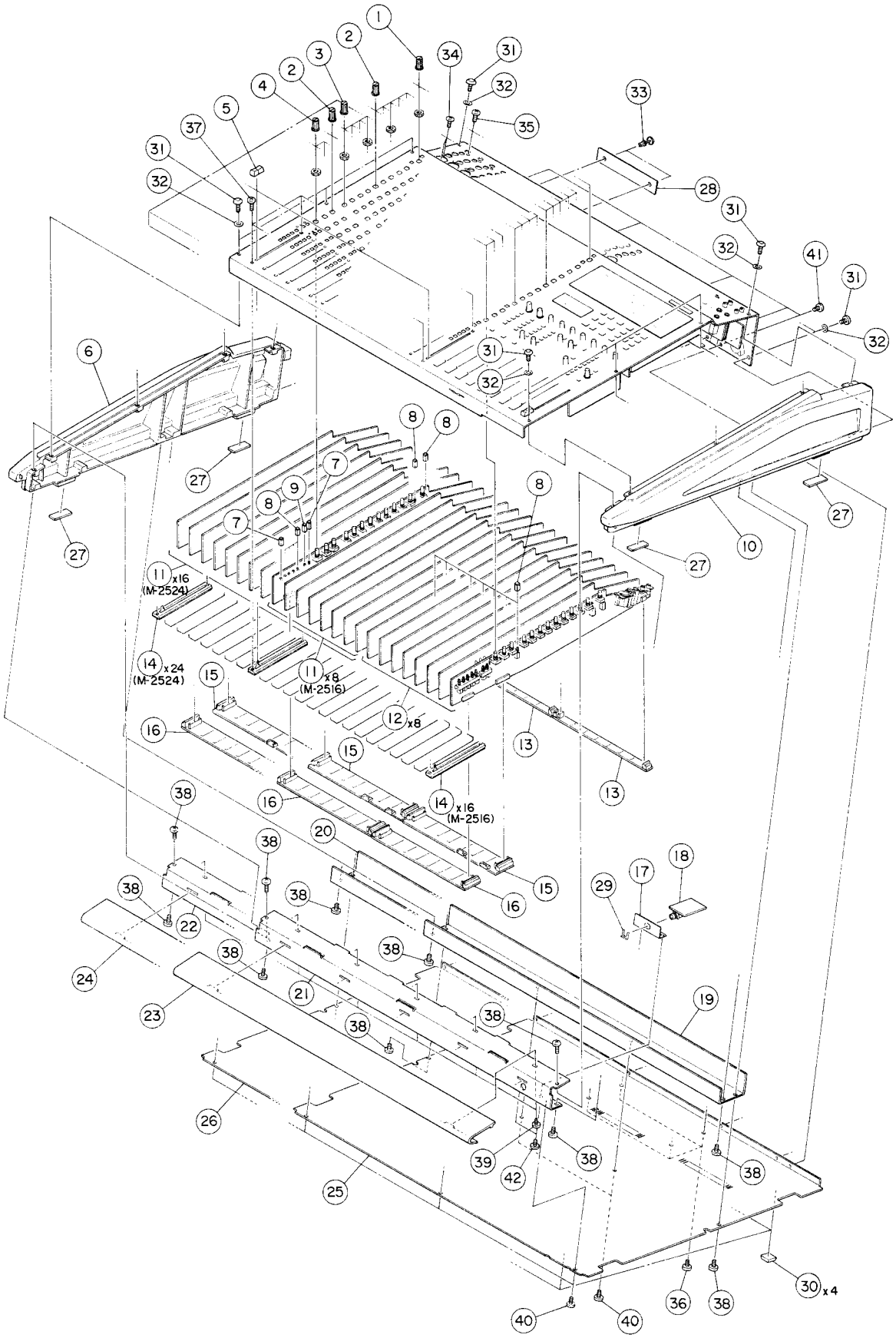


Fig. 3-1
図3-1

4. EXPLODED VIEWS AND PARTS LISTS

分解図とパーツ・リスト

EXPLODED VIEW-1



EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
1- 1	5801432500	KNOB ASSY(RED)	
1- 2	5801432800	KNOB ASSY(ORG)	
1- 3	5801432700	KNOB ASSY(GRN)	
1- 4	5801432400	KNOB ASSY(GRY)	
1- 5	5801442000	KNOB(E),L.FADER	
1- 6	*5801418601	BOARD(L),SIDE	
1- 7	5801364200	BUTTON,ASSIGN(YEL)	
1- 8	5801364100	BUTTON,ASSIGN(GRY)	
1- 9	5801364300	BUTTON,ASSIGN(RED)	
1-10	*5801418701	BOARD(R),SIDE	
1-11	*5200317600	INPUT(A) PCB ASSY	Refer to pages 25 & 34
1-12	*5200317610	INPUT(B) PCB ASSY	Refer to pages 25 & 35
1-13	*5200321900	BUSS(C) PCB ASSY	Refer to pages 27 & 36
1-14	*5284017400	VR.,SLIDE 10KD RSAON11	
1-15	*5200320300	BUSS(B) PCB ASSY	Refer to pages 27 & 36
1-16	*5200318200	BUSS(A) PCB ASSY	Refer to pages 27 & 36
1-17	*5801423600	BRACKET,HEADPHONE	
1-18	*5200318400	H.P PCB ASSY	Refer to pages 31 & 38
1-19	*5801419400	FRAME 16,BOTTOM [M-2516]	
1-20	*5801419500	FRAME 24,BOTTOM [M-2524]	
1-21	*5801418800	PANEL 16,FRONT [M-2516]	
1-22	*5801418900	PANEL 24,FRONT [M-2524]	
1-23	*5801419000	PAD 16 [M-2516]	
1-24	*5801419100	PAD 24 [M-2524]	
1-25	*5801419601	PLATE 16,BOTTOM [M-2516]	
1-26	*5801419701	PLATE 24,BOTTOM [M-2524]	
1-27	*5801434900	PAD,FELT	
1-28	*5801433500	PLATE,BLIND	
1-29	*5317003200	PLATE,MOUNT	
1-30	5730040500	FOOT	
1-31	*5781784006	BOLT,RHF4*6FNB	
1-32	*5785224200	WASHER,FIBER(BLK) 4X8X0.5T	
1-33	*5534878000	RIVET,PUSH RP-3545-NB	
1-34	*5780122605	SCREW,PAN M2.6X5(BLK NI)	
1-35	*5783543008	SCREW,BIND P-TITE M3X8(BLK NI)	
1-36	*5780023006	SCREW,BIND M3X6(BLK NI)	
1-37	*5801148000	SCREW,THIN M3X4(BLK NI)	
1-38	*5780024006	SCREW,BIND M4X6(BLK NI)	
1-39	*5783602606	SCREW,BIND P-TITE M2.6X6	
1-40	*5783033006	SCREW,BIND S-TITE M3X6	
1-41	*5783693006	SCREW,BIND S-TITE M3X6(BLK NI)	

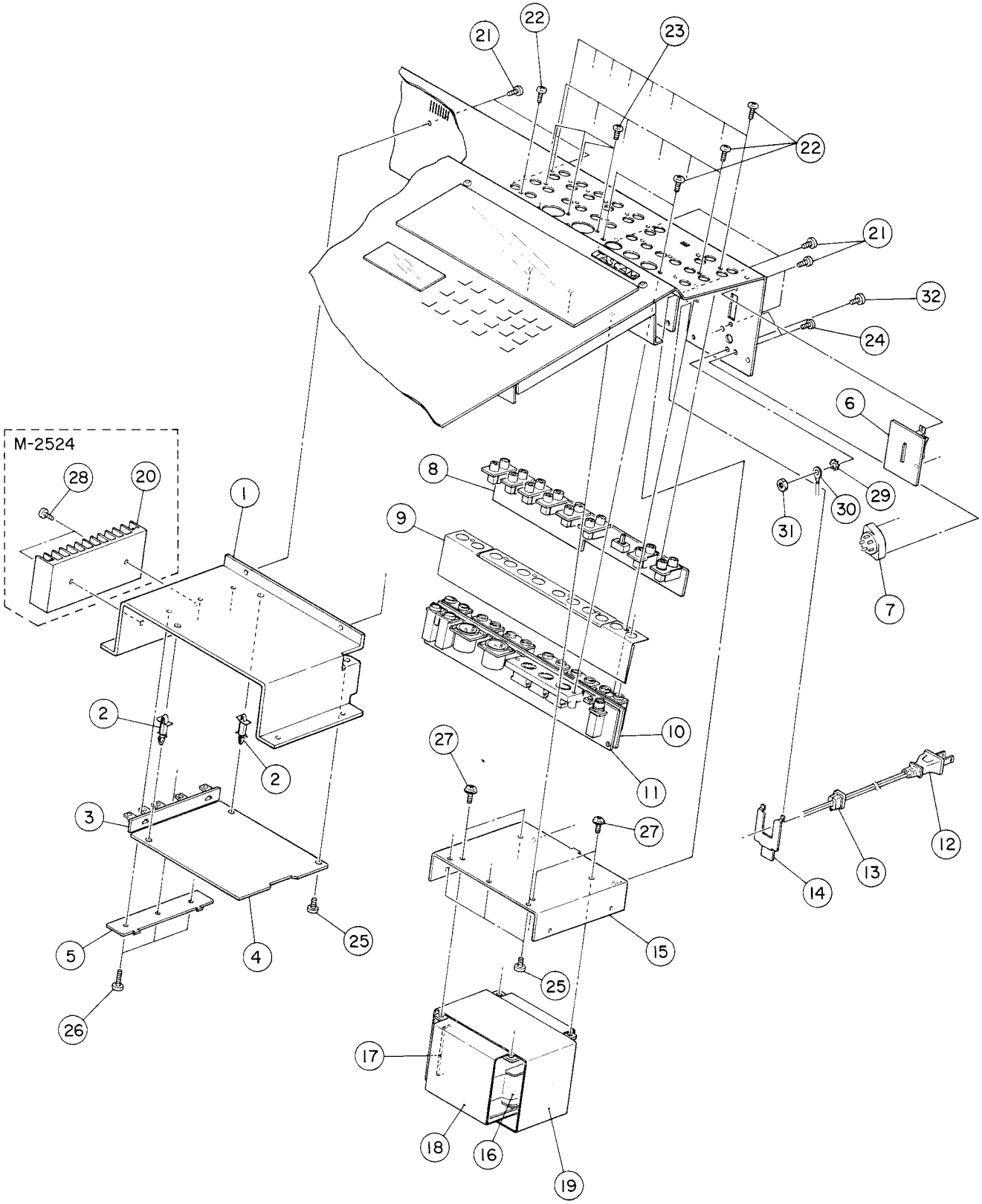
INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*5700124900	OWNER'S MANUAL [J]	
	*5700125000	OWNER'S MANUAL [EXCEPT J]	
	*5700125100	OWNER'S MANUAL [C,E]	

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

Parts marked with *require longer delivery time.

EXPLODED VIEW-2



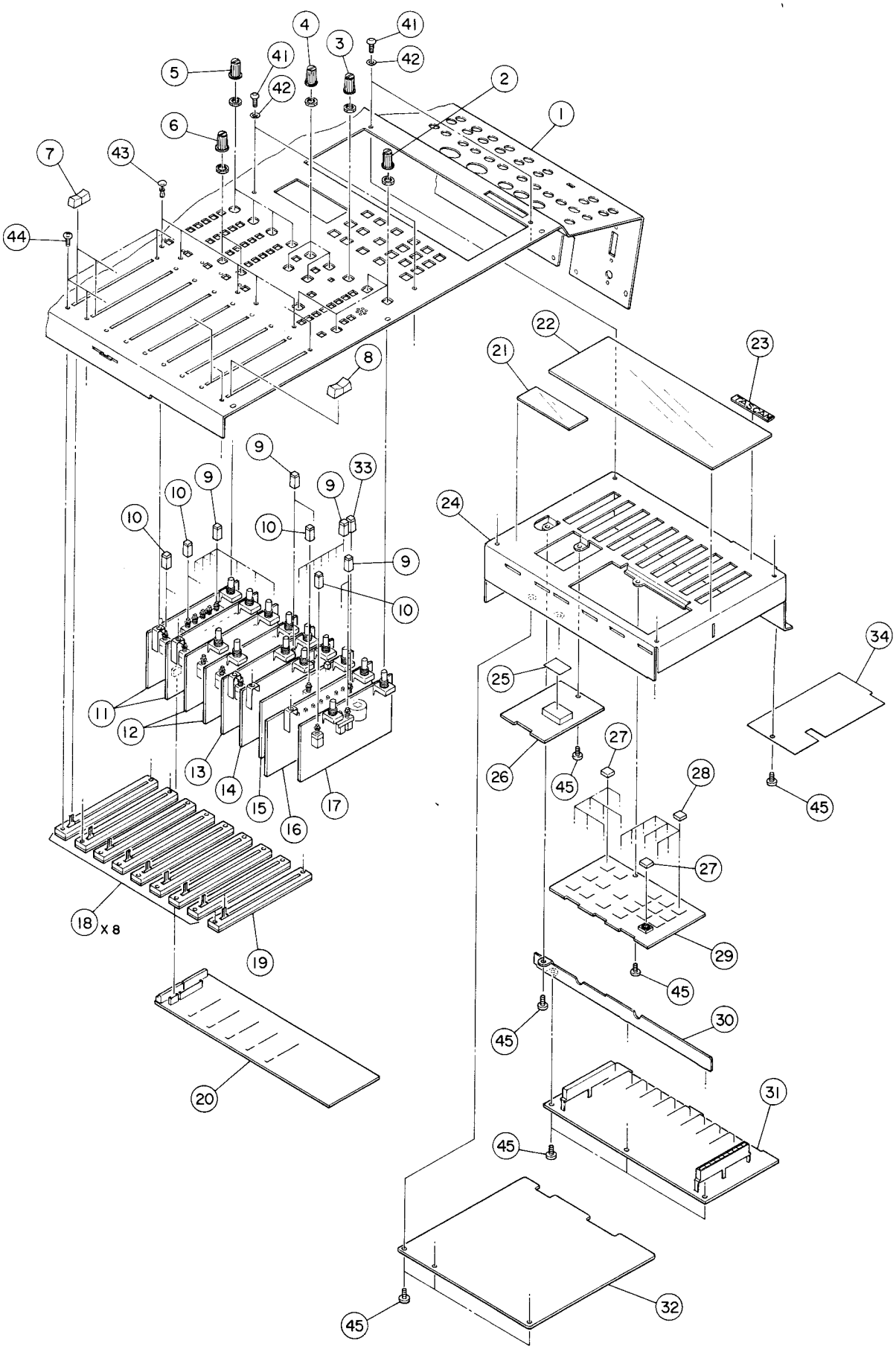
EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*5801420001	HEATSINK	
2- 2	*5787035800	SUPPORT,PCB PCB-8L	
2- 3	*5200319300	JOINT PCB ASSY	Refer to pages 31 & 37
2- 4	*5200319200	P/S PCB ASSY [J,US,C,GE]	Refer to pages 31 & 37
	*5200319210	P/S PCB ASSY [E,UK,A]	Refer to pages 31 & 37
2- 5	*5801265500	PLATE,HOLD	
2- 6	*5200319400	P.SW PCB ASSY [J,US,C,GE]	Refer to pages 32 & 37
	*5200319410	P.SW PCB ASSY [E,UK,A]	Refer to pages 32 & 37
2- 7	⚠*5302101700	SW.,VOLTAGE SELECT FS907G [GE]	
2- 8	*5200318500	GRP I/O PCB ASSY	Refer to pages 28 & 36
2- 9	*5801434800	SHEET,SHIELD	
2-10	*5200318600	AUX I/O PCB ASSY	Refer to pages 29 & 36
2-11	*5200319100	MIDI I/O PCB ASSY	Refer to pages 29 & 36
2-12	⚠*5128027000	CORD,AC [J]	
	⚠*5350010700	CORD,AC [US,GE]	
	⚠*5350008100	CORD,AC [C]	
	⚠*5350011700	CORD,AC [E]	
	⚠*5128047000	CORD,AC [UK]	
	⚠*5350008300	CORD,AC [A]	
2-13	⚠*5317003400	BUSHING,2271 [EXCPT C]	
	⚠*5317005600	BUSHING,2272 [C]	
2-14	*5801419300	PLATE,BUSHING	
2-15	*5801419200	BRACKET,TRANS.	
2-16	⚠*5320060701	TRANS.,POWER	
2-17	*5210319500	TR PCB	Refer to page 32
2-18	*5801451700	SHIELD(B),TRANS.	
2-19	*5801451600	SHIELD(A),TRANS.	
2-20	*5801447700	HEATSINK(B) [M-2524 ONLY]	
2-21	*5783693006	SCREW,BIND S-TITE M3X6(BLK NI)	
2-22	*5783543008	SCREW,BIND P-TITE M3X8(BLK NI)	
2-23	*5780122605	SCREW,PAN M2.6X5(BLK NI)	
2-24	*5783543008	SCREW,BIND P-TITE M3X8(BLK NI) [GE]	
2-25	*5783003006	SCREW,PAN S-TITE M3X6	
2-26	*5783003010	SCREW,PAN S-TITE M3X10	
2-27	*5783074008	SCREW,CUP S-TITE M4X8	
2-28	*5783003008	SCREW,PAN S-TITE M3X8 [M-2524 ONLY]	
2-29	*5785124000	WASHER,LOCK M4 [C]	
2-30	*5786700600	LUG,EARTH M4.2 [C]	
2-31	*5781814000	NUT,M4 [C]	
2-32	*5783004006	SCREW,PAN S-TITE M4X6 [C]	

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

Parts marked with *require longer delivery time.

EXPLODED VIEW-3



EXPLODED VIEW-3

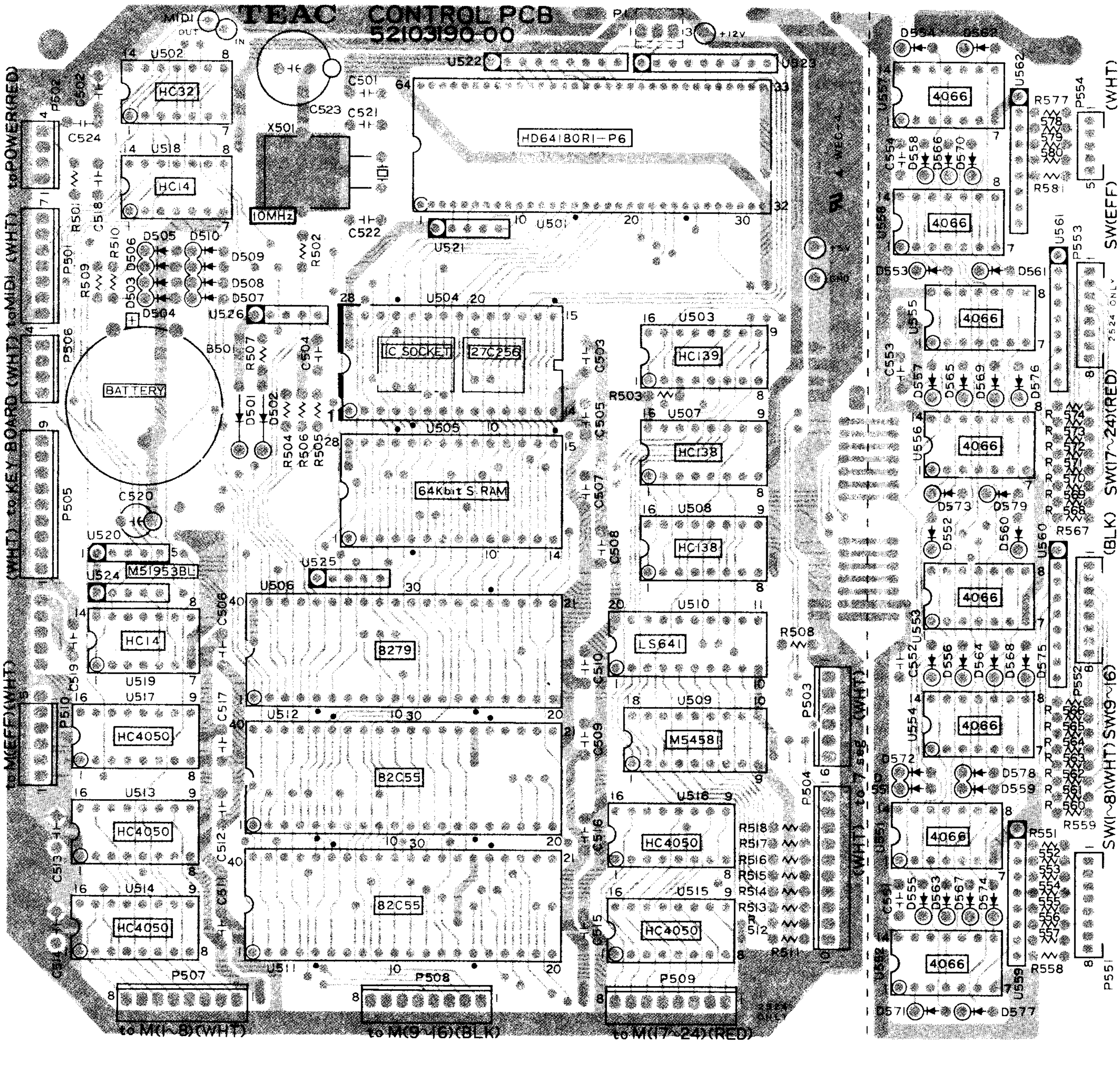
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5801418200	PANEL 16,TOP [M-2516]	
	*5801418300	PANEL 24,TOP [M-2524]	
3- 2	5801432800	KNOB ASSY(ORG)	
3- 3	5801432500	KNOB ASSY(RED)	
3- 4	5801432700	KNOB ASSY(GRN)	
3- 5	5801432600	KNOB ASSY(BLU)	
3- 6	5801432400	KNOB ASSY(GRY)	
3- 7	5801442100	KNOB(F),L.FADER	
3- 8	5801365900	KNOB(D),L.FADER	
3- 9	5801364100	BUTTON,ASSIGN(GRY)	
3-10	5801364200	BUTTON,ASSIGN(YEL)	
3-11	*5200317700	EFF1-2 PCB ASSY	Refer to pages 25 & 35
3-12	*5200317800	EFF3-4 PCB ASSY	Refer to pages 26 & 35
3-13	*5200317900	AUX(A) PCB ASSY	Refer to pages 30 & 38
3-14	*5200317910	AUX(B) PCB ASSY	Refer to pages 30 & 38
3-15	*5200318000	M.SELECT PCB ASSY	Refer to pages 30 & 38
3-16	*5200318100	C.ROOM PCB ASSY	Refer to pages 31 & 38
3-17	*5200321300	TB PCB ASSY	Refer to pages 30 & 36
3-18	*5284017400	VR.,SLIDE 10KD RSA0N11	
3-19	*5284017500	VR.,SLIDE 10KDX2 RSA0N12	
3-20	*5200318300	MONBUSS PCB ASSY	Refer to pages 27 & 36
3-21	*5801417600	WINDOW(SCENE)	
3-22	*5801417700	WINDOW(METER)	
3-23	*5720237200	BADGE L(E),TASCAM	
3-24	*5801419801	SUB CHASSIS	
3-25	*5801442300	FILTER,LED	
3-26	*5200318800	7 SEG PCB ASSY	Refer to pages 32 & 37
3-27	5801447400	BUTTON,BN	
3-28	5801104800	BUTTON,G	
3-29	*5200318900	KEYBOARD PCB ASSY	Refer to pages 32 & 37
3-30	*5801419900	HOLDER,METER PCB	
3-31	*5200318700	METER PCB ASSY	Refer to pages 33 & 37
3-32	*5200319000	CONTROL PCB ASSY	Refer to pages 24 & 34
3-33	*5801364300	BUTTON,ASSIGN(RED)	
3-34	*5801442501	SHEET,SHIELD	
3-41	*5781783006	BOLT,PHA3*6FNB	
3-42	*5785223000	WASHER,FIBER(BLK) 3X6X0.5T	
3-43	*5786610100	RIVET,PUSH RP-3035-NB	
3-44	*5801148000	SCREW,THIN M3X4(BLK NI)	
3-45	*5783033006	SCREW,BIND S-TITE M3X6	

Parts marked with *require longer delivery time.

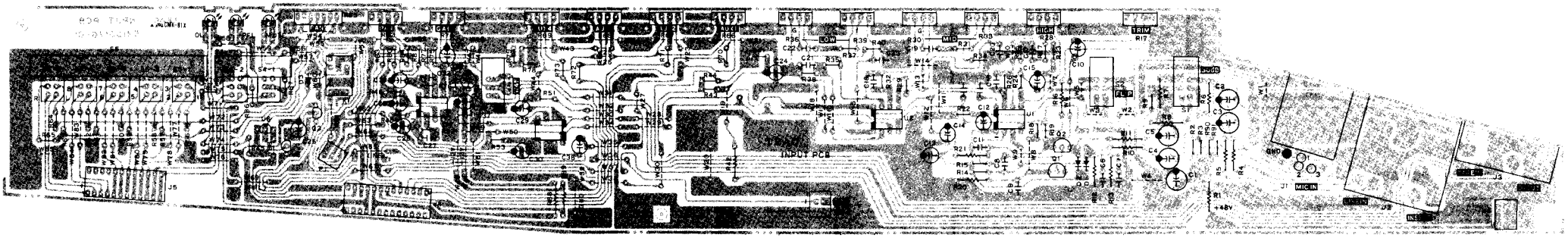
5. PC BOARDS AND PARTS LISTS

基板図とパーツ・リスト

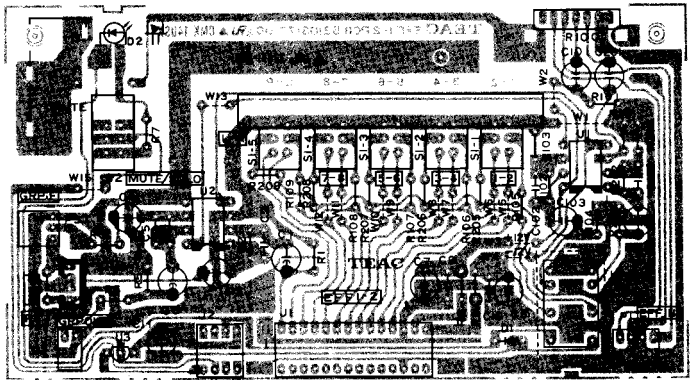
CONTROL PCB ASSY



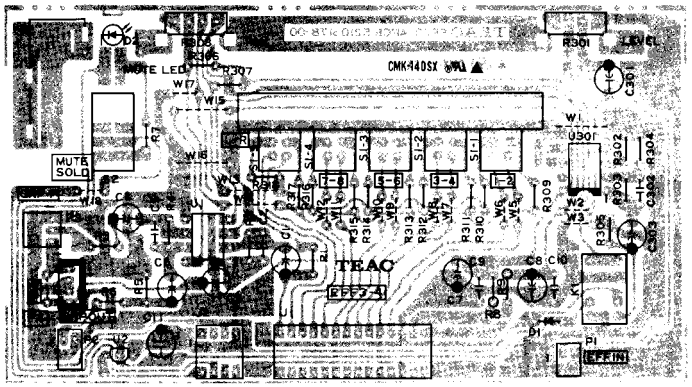
INPUT (A), (B) PCB ASSY



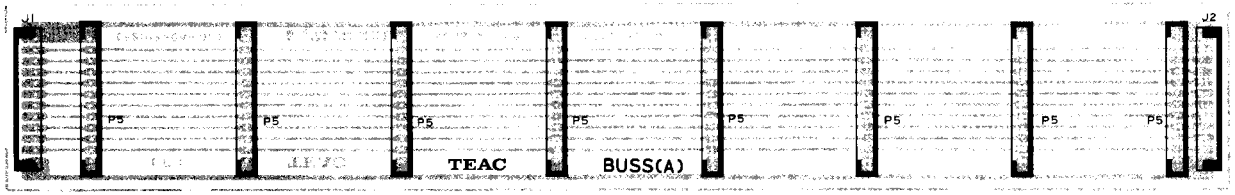
EFF 1-2 PCB ASSY



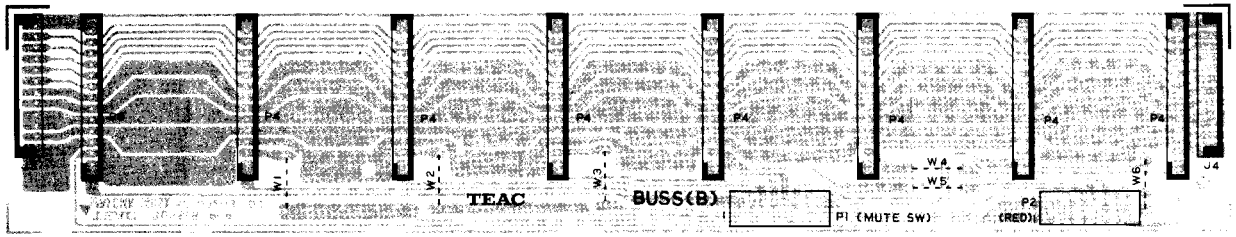
EFF 3-4 PCB ASSY



BUSS (A) PCB ASSY

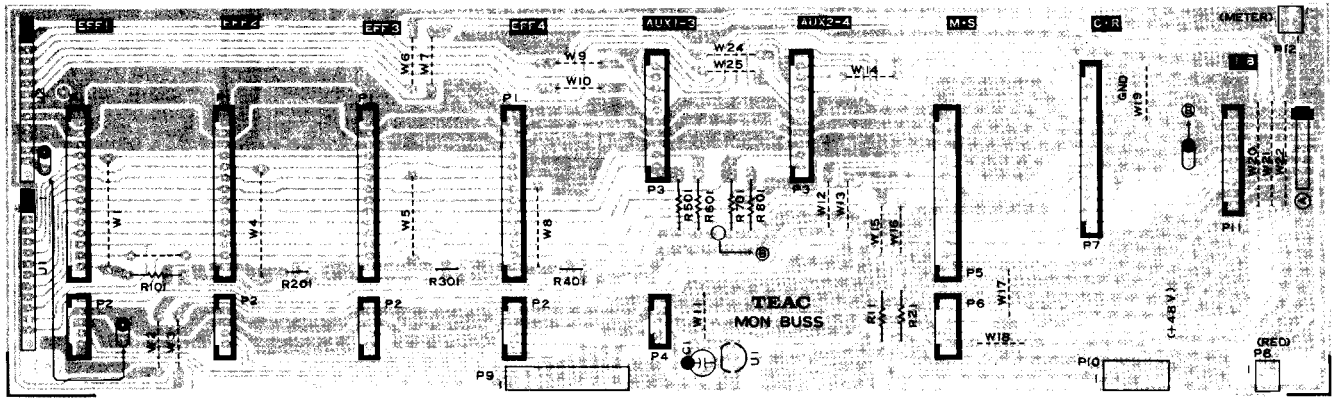


BUSS (B) PCB ASSY

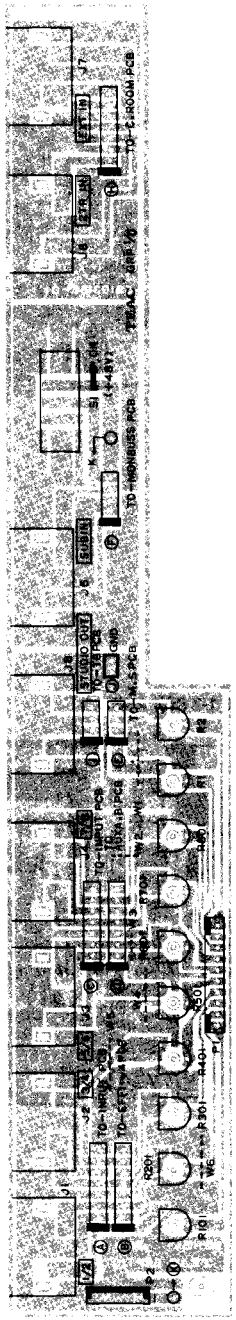


BUSS (C) PCB ASSY

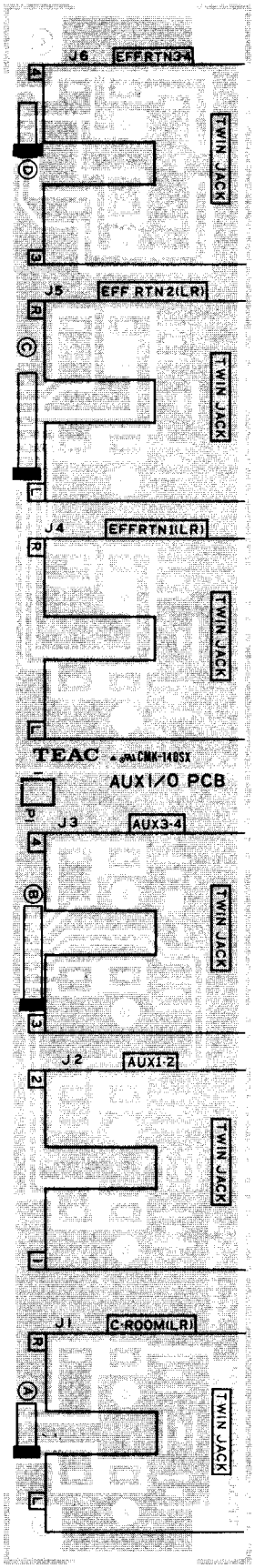
MON BUSS PCB ASSY



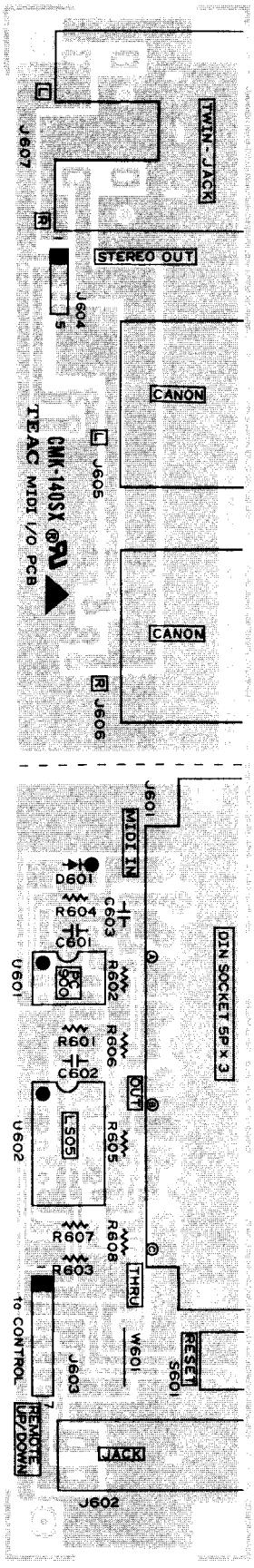
GRP I/O PCB ASSY



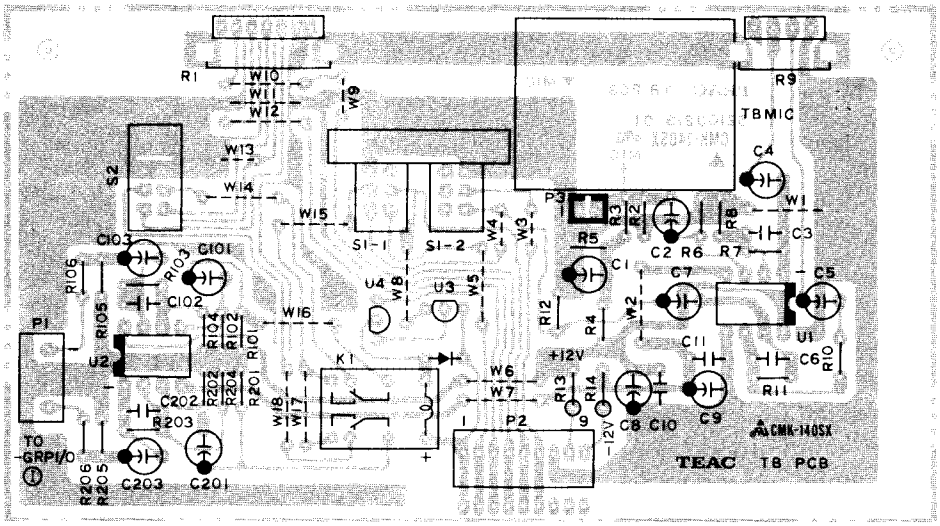
AUX I/O PCB ASSY



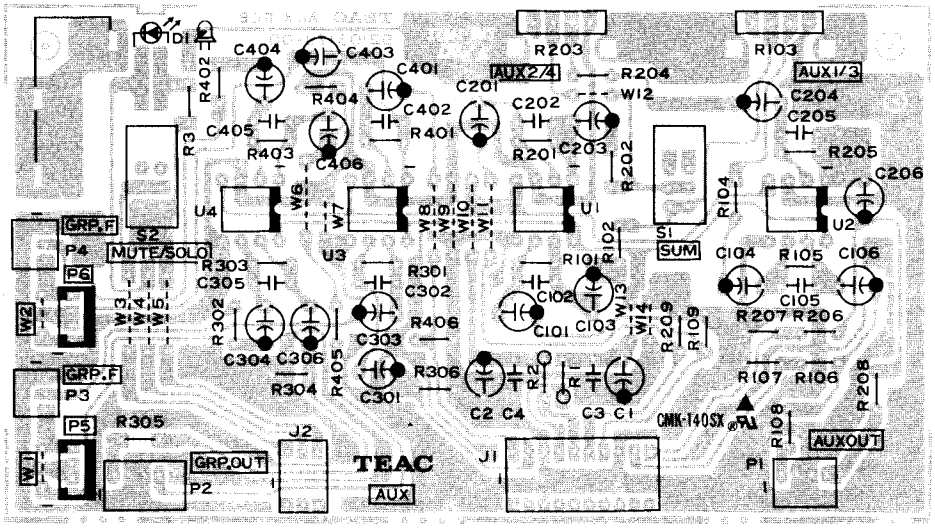
MIDI I/O PCB ASSY



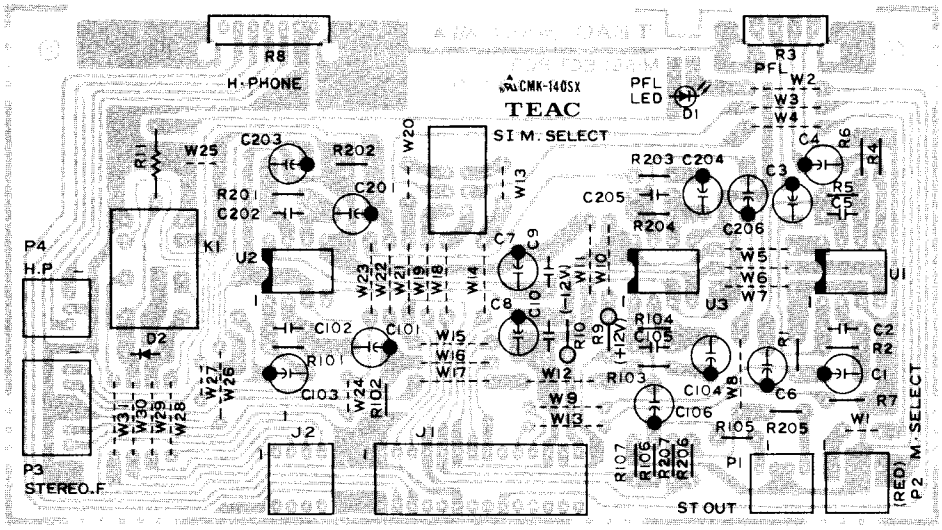
TB PCB ASSY



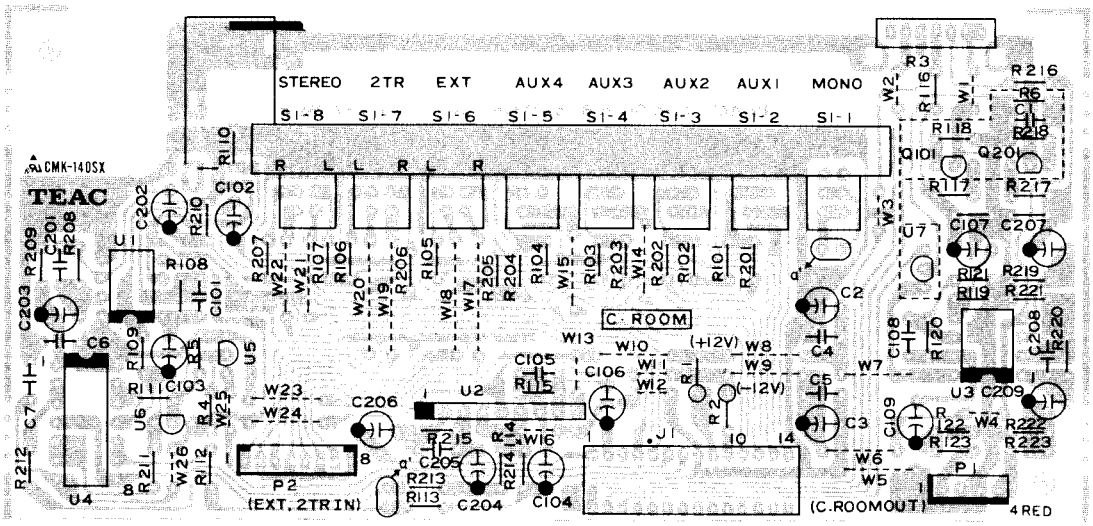
AUX (A), (B) PCB ASSY



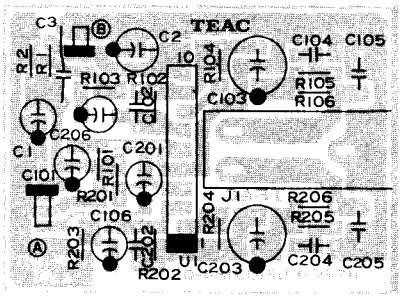
M.SELECT PCB ASSY



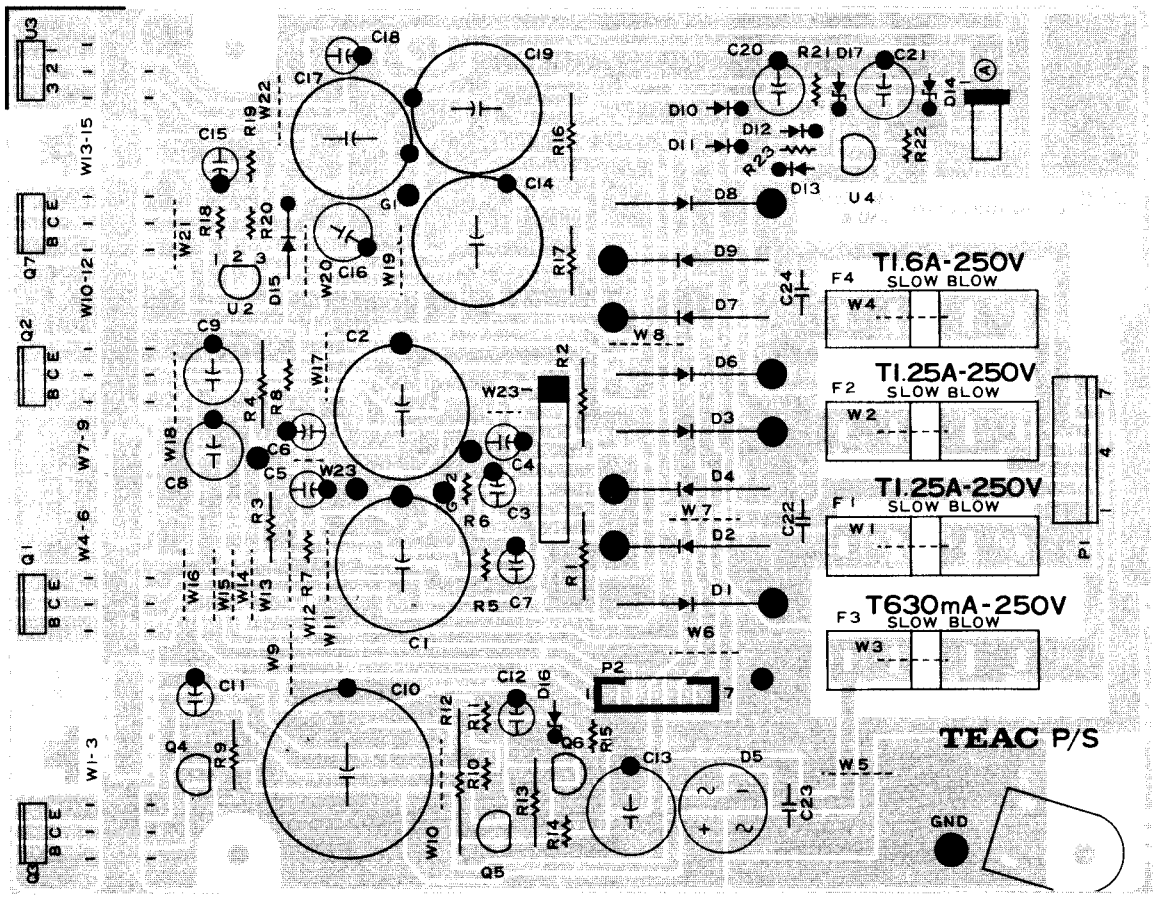
C.ROOM PCB ASSY



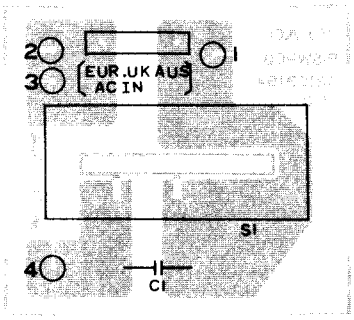
H.P PCB ASSY



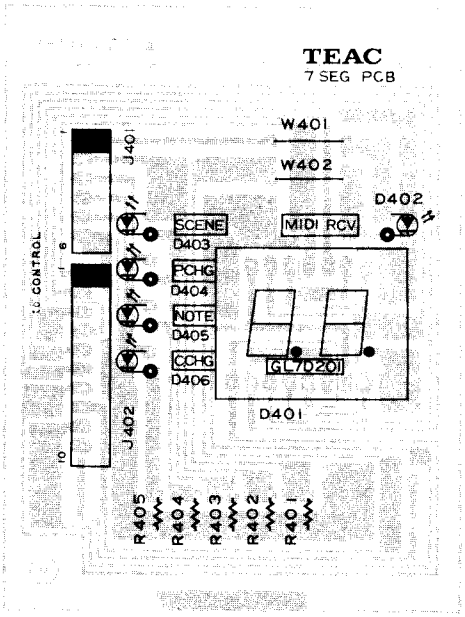
P/S PCB ASSY, JOINT PCB ASSY



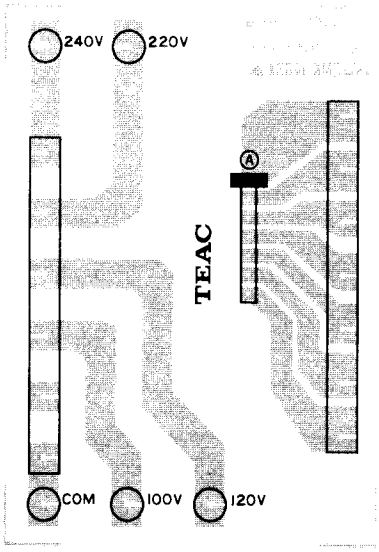
P.SW PCB ASSY



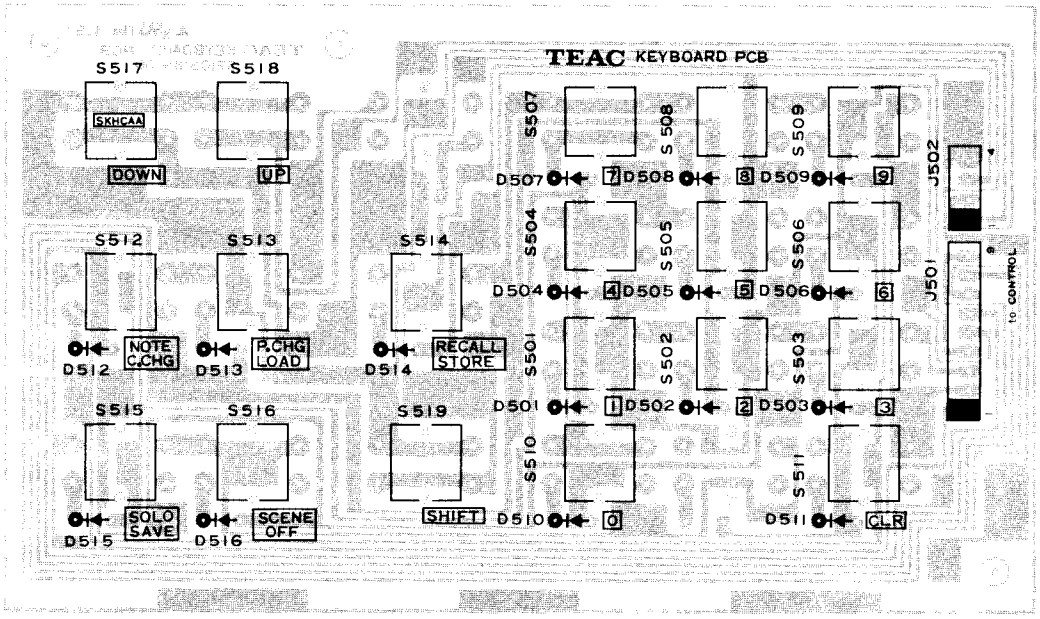
7 SEG PCB ASSY



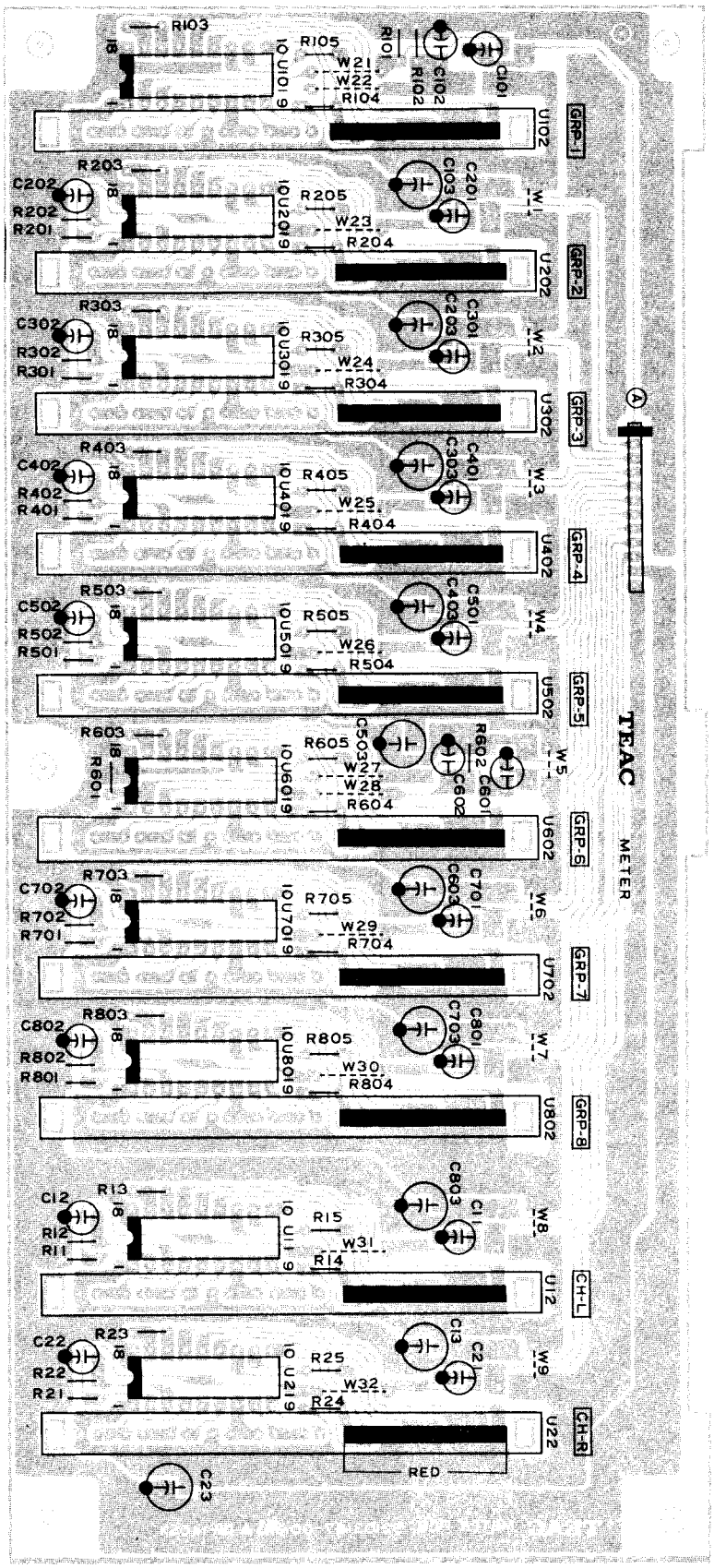
TR PCB



KEYBOARD PCB ASSY



METER PCB ASSY



CONTROL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200319000	CONTROL PCB ASSY
	*5210319000	CONTROL PCB
	*5220074000	IC.,DIGI. MBM27C256A-20CZ
	*5332029100	SOCKET,IC 28P IC87-2806-S4F
B501	5347013100	BATTERY,LITHIUM
D501,502	5224016810	DIODE,DINS4 PIO
D503-510	5224015020	DIODE,ISS133T-77
D551-579	5224015020	DIODE,ISS133T-77
P501	5336126700	PLUG,CONN. 8263-0712(WHT)
P502	5336135400	PLUG,CONN. 8263-0412(RED)
P503	5336126600	PLUG,CONN. 8263-0612(WHT)
P504	5336127000	PLUG,CONN. 8263-1012(WHT)
P505	5336126900	PLUG,CONN. 8263-0912(WHT)
P506	5336126400	PLUG,CONN. 8263-0412(WHT)
P507	5336126800	PLUG,CONN. 8263-0812(WHT)
P508	5336137800	PLUG,CONN. 8263-0812(BLK)
P509	5336135800	PLUG,CONN. 8263-0812(RED)
P510	5336126500	PLUG,CONN. 8263-0512(WHT)
P551	5336249800	PLUG,CONN. B08B-PH-K-S(WHT)
P552	5336255800	PLUG,CONN. B08B-PH-K-K(BLK)
P553	5336251800	PLUG,CONN. B08B-PH-K-R(RED)
P554	5336249500	PLUG,CONN. B05B-PH-K-S(WHT)
U501	5220815400	IC.,HD64180RIP6
U502	5220052000	IC.,TC74HC32P
U503	5220052300	IC.,TC74HC139P
U504	5220825000	IC.,ROM(PROGRAMMED)
U505	5220814900	IC.,HM6264ALP-15L
U506	5220805800	IC.,M5L8279P-5
U507,508	5220055900	IC.,DIGI. TC74HC138P
U509	5232257600	TR.,ARRAY M54581P
U510	5220096200	IC.,DIGI. HD74LS641-IP
U511,512	5220815900	LSI.,M5M82C55AP-2
U513-517	5220053200	IC.,DIGI. TC74HC4050P
U518,519	5220066700	IC.,DIGI. HD74HC14P
U520	5220430600	IC.,M51953BL
U521	5242118400	R.,ARRAY RMLS 4J103
U522	5242118600	R.,ARRAY RMLS 8J103
U523	5242118900	R.,ARRAY RMLS 8J223
U524-526	5242118400	R.,ARRAY RMLS 4J103
U551-558	5220041100	IC.,BU4066B
U559-562	5242118600	R.,ARRAY RMLS 8J103
X501	5347018800	OSC.,CRYSTAL 10MHZ

INPUT(A) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317600	INPUT(A) PCB ASSY
	*5210317601	INPUT PCB
D1-3	5224015020	DIODE,ISS133T-77
D4,5	5225013500	LED,SLR-34VR3F(RED)
D6	5225018500	LED,SLR-34DU3F
J1	5334066400	SOCKET,CANNON HA16PRM-3SA
J2	5330016300	JACK,3Z-3A
J3	5330513200	JACK,PIN 2P
J4	5336348300	SOCKET,CONN. TXC-P13X
J5	5336348200	SOCKET,CONN. TXC-P12X
J6	5336347300	SOCKET,CONN. TXC-P3X
K1	5290013700	RELAY,SY-12W-K
P1	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
Q1,2	5145119000	TR.,2SC-1844F
Q3	5230782320	TR.,JC501Q
R1	⚠5183578000	R.,INCOMB. 1/4W 100
R2,3	5241460920	R.,METAL FILM CRB20 13K
R15	5241459020	R.,METAL FILM CRB20 2.2K
R17	5282021800	VR.,5K(RD) 1S1UVR 11 PH1
R18,19	5241459820	R.,METAL FILM CRB20 4.7K
R28	5282023600	VR.,100KB 11 C.C
R30	5282021900	VR.,10KB 1S1UVR 11 PH1
R33	5282418300	VR.,200KCX2 11
R36	5282021900	VR.,10KB 1S1UVR 11 PH1
R39	5282418300	VR.,200KCX2 11
R55	5282416200	VR.,5KX2 1S2UVR 14 PH1
R66-69	5282023500	VR.,20K 11 C.C,C.T
R74	5282022300	VR.,20KA 1S1UVR 11 PH1
R82	5282024000	VR.,5KB 11 C.C
R88,89	⚠5183554000	R.,INCOMB. 1/4 10
R90,91	5241460920	R.,METAL FILM CRB20 13K
S1,2	5300052500	SW.,PUSH 2-2 SPUJ
S4	5300057000	SW.,PUSH 2-2 SPUJ20
S5	5300055900	SW.,PUSH 2-2 SPUJ
U1	5220439600	IC.,UPC4570C
U2-4	5220445000	IC.,NJM4565D
U5	5232254820	TR.,DIGI. DTA124ES
U6	5232255720	TR.,DIGI. DTC124ES

Parts marked with *require longer delivery time.

INPUT(B) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317610	INPUT(B) PCB ASSY
	*5210317601	INPUT PCB
D1-3	5224015020	DIODE,1SS133T-77
D4,5	5225013500	LED,SLR-334VR3F(RED)
D6	5225018500	LED,SLR-334DU3F
J1	5334066400	SOCKET,CANNON HA16PRM-3SA
J2	5330016300	JACK,3Z-3A
J3	5330513200	JACK,PIN 2P
J4	5336348300	SOCKET,CONN. TXC-P13X
J5	5336348200	SOCKET,CONN. TXC-P12X
J6	5336347300	SOCKET,CONN. TXC-P3X
K1	5290013700	RELAY,SY-12W-K
P1	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
P2	5336287200	PLUG,CONN. S2B-PH-K-S(WHT)
Q1,2	5145119000	TR.,2SC-1844F
Q3	5230782320	TR.,JC501Q
R1	⚠5183578000	R.,INCOMB. 1/4W 100
R2,3	5241460920	R.,METAL FILM CRB20 13K
R17	5282021800	VR.,5K(RD) 1S1UVR 11 PH1
R28	5282023600	VR.,100KB 11 C.C
R30	5282021900	VR.,10KB 1S1UVR 11 PH1
R33	5282418300	VR.,200KCX2 11
R36	5282021900	VR.,10KB 1S1UVR 11 PH1
R39	5282418300	VR.,200KCX2 11
R55	5282416200	VR.,5KX2 1S2UVR 14 PH1
R66-69	5282023500	VR.,20K 11 C.C,C.T
R74	5282022300	VR.,20KA 1S1UVR 11 PH1
R82	5282024000	VR.,5KB 11 C.C
R88,89	⚠5183554000	R.,INCOMB. 1/4 10
R90,91	5241460920	R.,METAL FILM CRB20 13K
S1-3	5300052500	SW.,PUSH 2-2 SPUJ
S4	5300057000	SW.,PUSH 2-2 SPUJ20
S5	5300055900	SW.,PUSH 2-2 SPUJ
U1	5220439600	IC.,UPC4570C
U2-4	5220445000	IC.,NJM4565D
U5	5232254820	TR.,DIGI. DTA124ES
U6	5232255720	TR.,DIGI. DTC124ES

EFF1-2 PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317700	EFF1-2 PCB ASSY
	*5210317700	EFF1-2 PCB
	*5801423800	BRACET,PCB
D1	5224015020	DIODE,1SS133T-77
D2	5225018500	LED,SLR-334DU3F
J1	5336282400	SOCKET,CONN. 1L-SDD-14S-S2L2
J2	5336281400	SOCKET,CONN. 1L-SDD-4S-S2L2
K1	5290013800	RELAY,DF2-DC12V
P1	5336287400	PLUG,CONN. S4B-PH-K-S(WHT)
P2	5336287200	PLUG,CONN. S2B-PH-K-S(WHT)
P3	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
P4	5336249400	PLUG,CONN. B04B-PH-K-S(WHT)
R8,9	⚠5183554000	R.,INCOMB. 1/4 10
R100	5282417200	VR.,20KAX2 1S2UVR 14
S1	5300055900	SW.,PUSH 2-2-5 SPUJ
S2	5300056600	SW.,PUSH 2-2 SPUJ
U1	5220445000	IC.,NJM4565D
U2	5220445000	IC.,NJM4565D
U3	5232255720	TR.,DIGI. DTC124ES

EFF3-4 PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317800	EFF3-4 PCB ASSY
	*5210317800	EFF3-4 PCB
D1	5224015020	DIODE,1SS133T-77
D2	5225018500	LED,SLR-334DU3F
J1	5336282400	SOCKET,CONN. 1L-SDD-14S-S2L2
J2	5336281400	SOCKET,CONN. 1L-SDD-4S-S2L2
K1	5290013700	RELAY,SY-12W-K
P1	5336293200	PLUG,CONN. S2B-PH-K-K(BLK)
P2	5336287200	PLUG,CONN. S2B-PH-K-S(WHT)
P3	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
P4	5336249400	PLUG,CONN. B04B-PH-K-S(WHT)
R8,9	⚠5183554000	R.,INCOMB. 1/4 10
R301	5282022300	VR.,20KA 11 PH1
R308	5282024000	VR.,5KB 11 C.C
S1	5300055900	SW.,PUSH 2-2-5 SPUJ
S2	5300056600	SW.,PUSH 2-2 SPUJ
U1	5220445000	IC.,NJM4565D
U2	5232255720	TR.,DIGI. DTC124ES
U301	5220445000	IC.,NJM4565D

Parts marked with *require longer delivery time.

BUSS(A) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318200	BUSS(A) PCB ASSY
	*5210318200	BUSS(A) PCB
	*5336354200	SOCKET,WIRE 12P P=2
P5	5336350200	PLUG,CONN. TXC-P12P

BUSS(B) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200320300	BUSS(B) PCB ASSY
	*5210320300	BUSS(B) PCB
	*5336354200	SOCKET,WIRE 12P P=2
P1	5336289800	PLUG,CONN. S8B-PH-K-Y(YEL)
P2	5336291800	PLUG,CONN. S8B-PH-K-R(RED)
P4	5336350300	PLUG,CONN. TXC-P13P

BUSS(C) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200321900	BUSS(C) PCB ASSY
	*5210321900	BUSS(C) PCB
	*5336353500	SOCKET,WIRE 5P P=2
P6	5336349300	PLUG,CONN. TXC-P3P

MONBUSS PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318300	MONBUSS PCB ASSY
	*5210318301	MONBUSS PCB
J1,2	5336340200	HOLDER,CABLE 12P P=2
P1	5336280400	PLUG,CONN. IL-SDD-14P-S2T
P2	5336279400	PLUG,CONN. IL-SDD-4P-S2T
P3	5336280000	PLUG,CONN. IL-SDD-10P-S2T
P4	5336279300	PLUG,CONN. IL-SDD-3P-S2T
P5	5336280400	PLUG,CONN. IL-SDD-14P-S2T
P6	5336279400	PLUG,CONN. IL-SDD-4P-S2T
P7	5336280400	PLUG,CONN. IL-SDD-14P-S2T
P8	5336291200	PLUG,CONN. S2B-PH-K-R(RED)
P9	5336288000	PLUG,CONN. S10B-PH-K-S(WHT)
P10	5336287500	PLUG,CONN. S5B-PH-K-S(WHT)
P11	5336279900	PLUG,CONN. IL-SDD-9P-S2T
P12	5336287200	PLUG,CONN. S2B-PH-K-S(WHT)
U1	5232255720	TR.,DIGI. DTC124ES

GRP I/O PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318500	GRP I/O PCB ASSY
	*5210318501	GRP I/O PCB
J1-J8	5330509400	JACK,PIN 2P YKC21-0061
P1	5336250000	PLUG,CONN. B10B-PH-K-S(WHT)
P2	5336257400	PLUG,CONN. 4P 52011-0410
R1,2	5280021700	R.,TRIMMER 47KB H.
R101,801	5280021700	R.,TRIMMER 47KB H.
S1	5300917000	SW.,SLIDE 2-2

AUX I/O PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318600	AUX I/O PCB ASSY
	*5210318602	AUX I/O PCB
J1-6	5330016200	JACK,2B-2B
P1	5336287200	PLUG,CONN. S2B-PH-K-S(WHT)

MIDI I/O PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200319100	MIDI I/O PCB ASSY
	*5210319100	MIDI I/O PCB
D601	5224015020	DIODE,1SS133T-77
J601	5334066300	SOCKET,DIN 5PX3
J602	5330011600	JACK,3P YKB21-5010
J605,606	5334072500	SOCKET,CANNON HA16RM-3PA
J607	5330016200	JACK,2B-2B
S601	5302106300	SW.,TACT SKHHLM
U601	5228013300	PHOTO COUPLER,PC900
U602	5220094900	IC.,DIGI. HD74LS05P

TB PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200321300	TB PCB ASSY
	*5210321301	TB PCB
	*5347007700	MIC,CONDENSER WM-034CY
	*5730030200	CLAMP,WIRE S-514
D1	5224015020	DIODE,1SS133T-77
D2	5224012920	DIODE,1S2473
J1	5336281900	SOCKET,CONN. IL-SDD-9S-S2L2
K1	5290013800	RELAY,DF2-DC12V
P1	5336128400	PLUG,CONN. 8263-0411(WHT)
P3	5336249200	PLUG,CONN. B02B-PH-K-S(WHT)
R1	5282417200	VR.,20KAX2 14
R13,14	⚠5183554000	R.,INCOMB. 1/4 10
R9	5282022300	VR.,20KA 11 PH1
S1	5300056500	SW.,PUSH 2-2-2 SPUJ
S2	5300052500	SW.,PUSH 2-2 SPUJ
U1,2	5220445000	IC.,NJM4565D
U3	5232254820	TR.,DIGI. DTA124ES
U4	5232255720	TR.,DIGI. DTC124ES

Parts marked with *require longer delivery time.

P/S PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200319200	P/S PCB ASSY [J,US,C,GE]
	*5200319210	P/S PCB ASSY [E,UK,A]
	*5210319201	P/S PCB
	*5332015800	HOLDER,FUSE [E,UK,A]
	*5555590000	PLATE(A),EARTH
C1,2	⚠5260467310	C.,ELEC. 4700UF/25V
C10	⚠5262010900	C.,ELEC. 1000UF/100V
C14	⚠5260466810	C.,ELEC. 3300UF/25V
C18	⚠5260463020	C.,ELEC. 100UF/10V
D1-4	⚠5224018200	DIODE,30D2FC
D5	⚠5228005000	SILICON STACK,W02
D6-9	⚠5224018200	DIODE,30D2FC
D10,11	5224017120	DIODE,ISR139-200 T-31
D12,13	5224015020	DIODE,1SS133T-77
D14	5224572901	DIODE,ZENER RD4.7EL2 FR
D15	5224017120	DIODE,ISR139-200 T-31
D16	5224545501	DIODE,ZENER RD24EB3 FR
D17	13415110	DIODE ZENER (RD8.2E)
F1,2	⚠5142187000	FUSE,1.25A-250V(T) [E,UK,A]
F3	⚠5142185000	FUSE,630MA/250V(T) [E,UK,A]
F4	⚠5142188000	FUSE,1.6A-250V (T) [E,UK,A]
P1	5336126700	PLUG,CONN. 8263-07I2(WHT)
P2	5336249700	PLUG,CONN. B07B-PH-K-S(WHT)
Q4-6	5230773800	TR.,2SC2655-Y
R1,2	⚠5183578000	R.,INCOMB. 1/4W 100
R3,4	⚠5183596000	R.,INCOMB. 560 OHM
R5	5241461220	R.,METAL FILM 18K F FT
R6	5241459420	R.,METAL FILM 3.3K F FT
R7,8	5241461020	R.,METAL FILM 15K F FT
R9	⚠5182042000	R.,INCOMB. F50 6.8K
R10	5240548120	R.,CARBON ERD-A3TJ 1.5K
R11	5240551720	R.,CARBON ERD-A3TJ 47K
R12	⚠5241282910	R.,NONFLAMMABLE 2W 10 OHM
R13	⚠5182034000	R.,INCOMB. F50 3.3K
R14	⚠5240550220	R.,INCOMB. ERD-A3TJ 11K
R15	5240550320	R.,CARBON ERD-A3TJ 12K
R16	⚠5181982000	R.,INCOMB. F50 22 OHM
R17	⚠5183586000	R.,INCOMB. F25 220 OHM
R18	5240550520	R.,CARBON. ERD-A3TJ 15K
R19	5241461820	R.,METAL FILM CRB20 33K
R20	5241459720	R.,METAL FILM CRB20 4.3K
R21	5240548320	R.,CARBON ERD-A3TJ 1.8K
R22	5240548120	R.,CARBON ERD-A3TJ 1.5K
R23	5240548120	R.,CARBON ERD-A3TJ 1.5K
U1	5220425800	IC.,M5230LA
U2	⚠5220446100	IC.,M5237L
U4	5232254820	TR.,DIGI. DTA124ES

JOINT PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200319300	JOINT PCB ASSY
	*5210319300	JOINT PCB
Q1	⚠5231762800	TR.,2SD1913R
Q2	⚠5230509700	TR.,2SB1274R
Q3	⚠5231762800	TR.,2SD1913R
Q7	⚠5230509700	TR.,2SB1274R
U3	⚠5220434400	IC.,M5F7805L

P.SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200319400	P.SW PCB ASSY [J,US,C,GE]
	*5200319410	P.SW PCB ASSY [E,UK,A]
	*5210319400	P.SW PCB
	*5730007500	COVER,CAPASITOR SB-1417 [E,UK,A]
	*5327007200	TERMINAL,2P [E,UK,A]
C1	⚠5267703800	SPARK KILLER,4700PF/400V M
S1	⚠5302108100	SW.,SEESAW SDDTA1-A-2

7 SEG PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318800	7 SEG PCB ASSY
	*5210318800	7 SEG PCB
D401	5225018800	LED,GL7D201
D402-406	5225021100	LED,GL8HD22
R401-405	5240027220	R.,CARBON 390 OHM R20 T.

KEYBOARD PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318900	KEYBOARD PCB ASSY
	*5210318900	KEYBOARD PCB
D501-516	5224015020	DIODE,1SS133T-77
S501-519	5302104400	SW.,TACT SKHCAA

METER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318700	METER PCB ASSY
	*5210318700	METER PCB
U101-801	5220445100	IC.,AN6891
U102-802	5296007900	UNIT,LEVEL METER LK-01
U11,21	5220445100	IC.,AN6891
U12,22	5296007900	UNIT,LEVEL METER LK-01

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

Parts marked with *require longer delivery time.

AUX(A) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317900	AUX(B) PCB ASSY
	*5210317900	AUX PCB
	*5801423800	BRACKET,PCB
D1	5225018500	LED,SLR-34DU3F
J1	5336282000	SOCKET,CONN. IL-SDD-10S-S2L2
J2	5336281300	SOCKET,CONN. IL-SDD-3S-S2L2
P1	5336293400	PLUG,CONN. S4B-PH-K-K(BLK)
P2	5336287500	PLUG,CONN. S5B-PH-K-S(WHT)
P3,4	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
P5,6	5336249400	PLUG,CONN. B04B-PH-K-S(WHT)
R1,2	⚠5183554000	R.,INCOMB. 1/4 10
R103,203	5282022300	VR.,20KA 11 PHI
S1	5300052500	SW.,PUSH 2-2 SPUJ
S2	5300056600	SW.,PUSH 2-2 SPUJ
U1,2	5220445000	IC.,NJM4565D
U3,4	5220445000	IC.,NJM4565D

AUX(B) PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317910	AUX(B) PCB ASSY
	*5210317900	AUX PCB
	*5801423800	BRACKET,PCB
J1	5336282000	SOCKET,CONN. IL-SDD-10S-S2L2
J2	5336281300	SOCKET,CONN. IL-SDD-3S-S2L2
P1	5336293400	PLUG,CONN. S4B-PH-K-K(BLK)
P2	5336287500	PLUG,CONN. S5B-PH-K-S(WHT)
P3,4	5336287300	PLUG,CONN. S3B-PH-K-S(WHT)
P5,6	5336249400	PLUG,CONN. B04B-PH-K-S(WHT)
R1,2	⚠5183554000	R.,INCOMB. 1/4 10
R103,203	5282022300	VR.,20KA 11 PHI
S1	5300052500	SW.,PUSH 2-2 SPUJ
U1,2	5220445000	IC.,NJM4565D
U3,4	5220445000	IC.,NJM4565D

M.SELECT PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318000	M.SELECT PCB ASSY
	*5210318000	M.SELECT PCB
D1	5225021100	LED,GL8HD22
D2	5224015020	DIODE,1SS133T-77
J1	5336282400	SOCKET,CONN. IL-SDD-14-S2L2
J2	5336281400	SOCKET,CONN. IL-SDD-4S-S2L2
K1	5290013800	RELAY,DF2-DC12V
P1	5336289400	PLUG,CONN. S4B-PH-K-Y(YEL)
P2	5336291400	PLUG,CONN. S4B-PH-K-R(RED)
P3	5336287600	PLUG,CONN. S6B-PH-K-S(WHT)
P4	5336287300	PLUG,CONN. S3B-PH-K-S(YEL)
R3	5282022300	VR.,20KA 11 PHI
R8	5282417200	VR.,20KAX2 14
R9,10	⚠5183554000	R.,INCOMB. 1/4 10
S1	5300052500	SW.,PUSH 2-2 SPUJ
U1-3	5220445000	IC.,NJM4565D

C.ROOM PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318100	C.ROOM PCB ASSY
	*5210318100	C.ROOM PCB
	*5801423800	BRACKET,PCB
J1	5336282400	SOCKET,CONN. IL-SDD-14-S2L2
P1	5336139400	PLUG,CONN. 8263-0411(RED)
P2	5336249800	PLUG,CONN. B08B-PH-K-S(WHT)
Q101,201	5230775020	TR.,2SC2878-B
R1,2	⚠5183554000	R.,INCOMB. 1/4 10
R3	5282417200	VR.,20KAX2 14
S1	5300056000	SW.,PUSH 2-2-8 SPUJ
U1,3	5220445000	IC.,NJM4565D
U2	5220440600	IC.,NJM4565L
U4	5220036200	IC.,LC4966
U5	5232254820	TR.,DIGI. DTA124ES
U6	5232255720	TR.,DIGI. DTC124ES
U7	5232254820	TR.,DIGI. DTA124ES

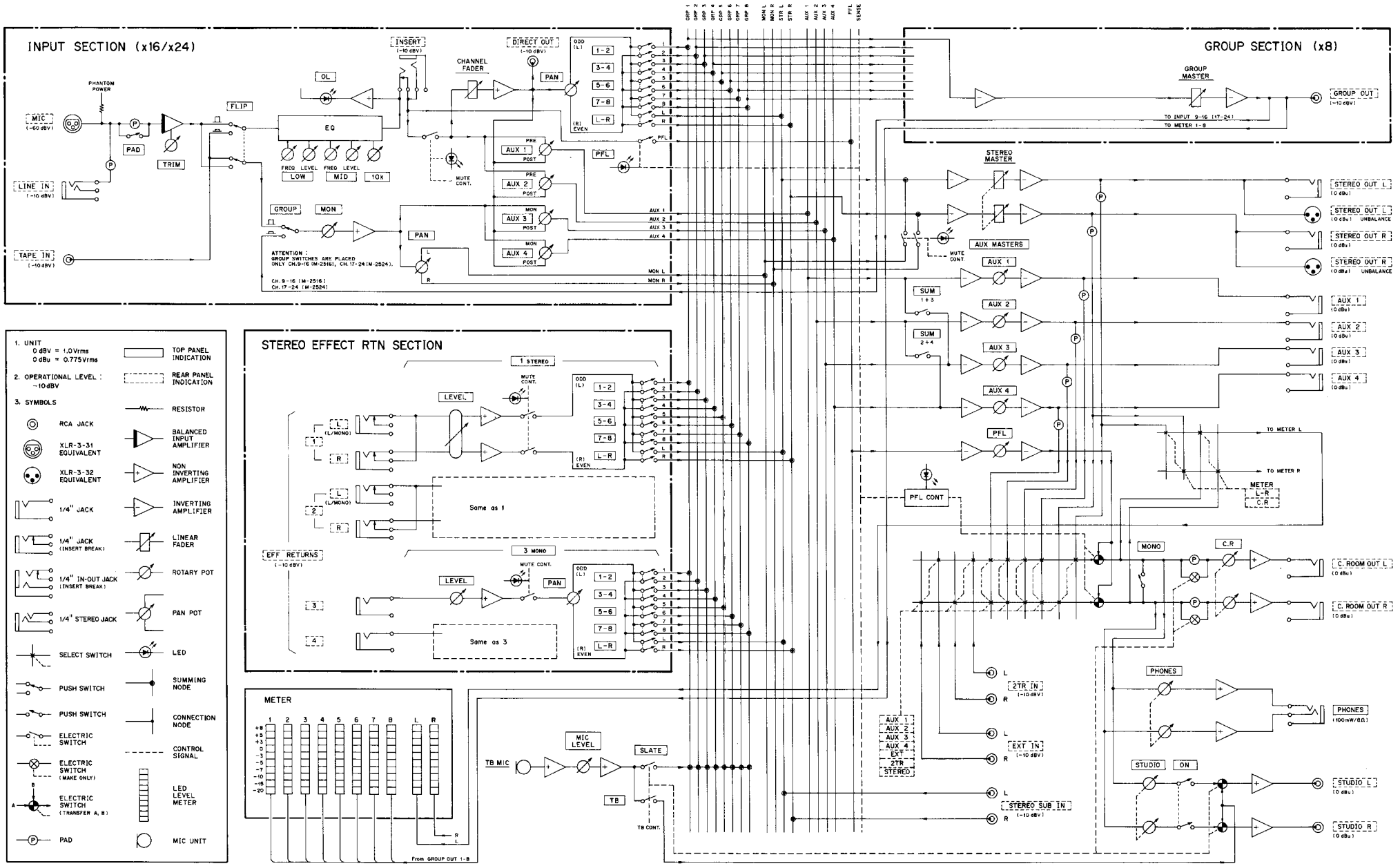
H.P PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200318400	H.P PCB ASSY
	*5210318401	H.P PCB
J1	5330011600	JACK,3P YKB21-5010
U1	5220441700	IC.,TA7272P

Parts marked with *require longer delivery time.

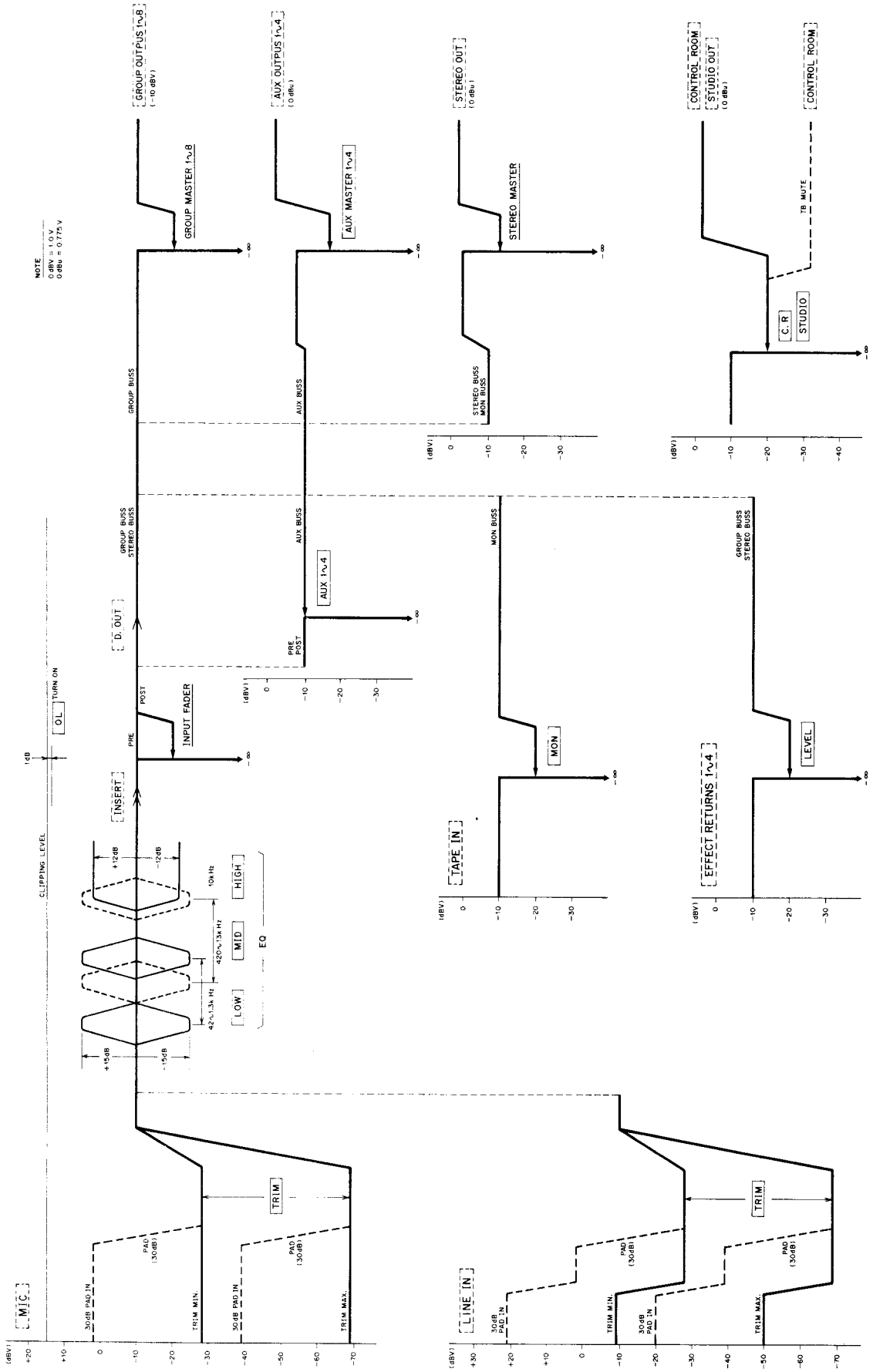
6. BLOCK DIAGRAM

ブロック・ダイアグラム



7. LEVEL DIAGRAM

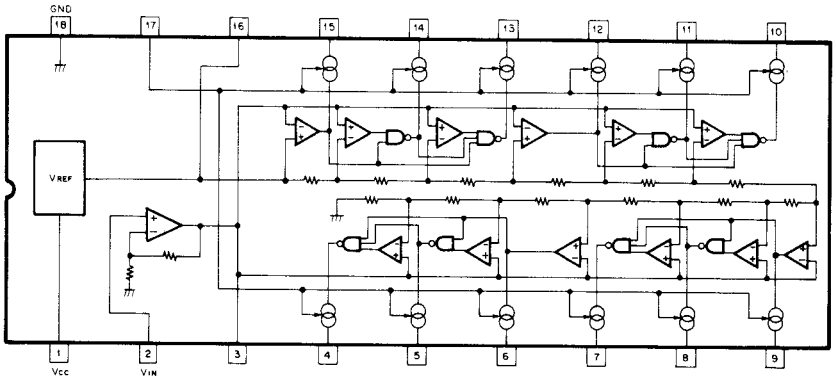
レベル・ダイアグラム



8. IC BLOCK DIAGRAMS

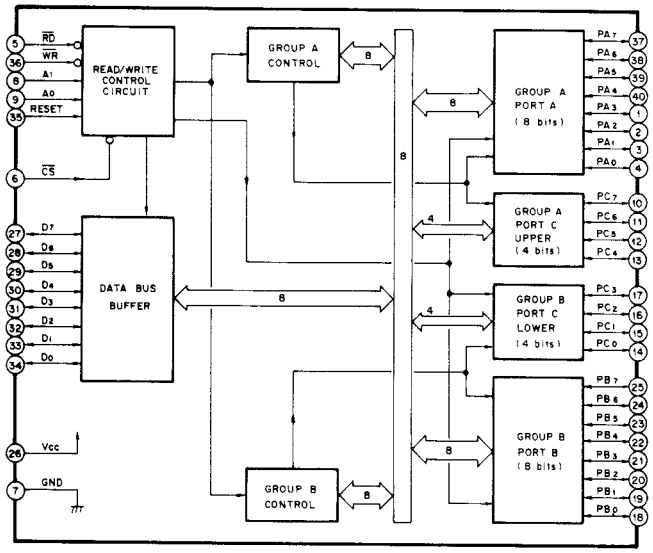
ICブロック・ダイアグラム

AN6891



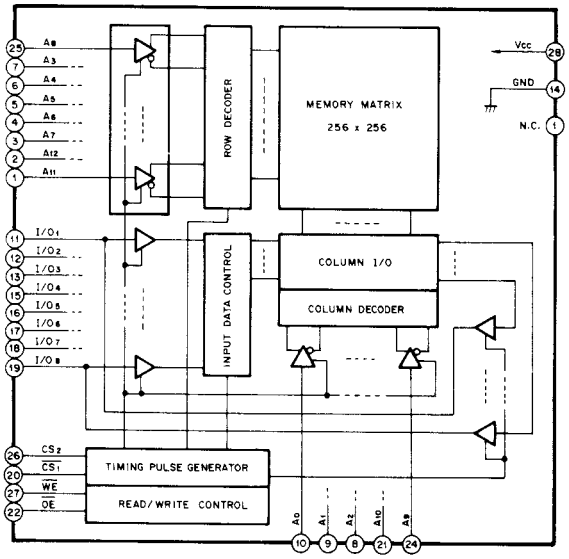
M5M82C55AP-2

CMOS PROGRAMMABLE PERIPHERAL INTERFACE



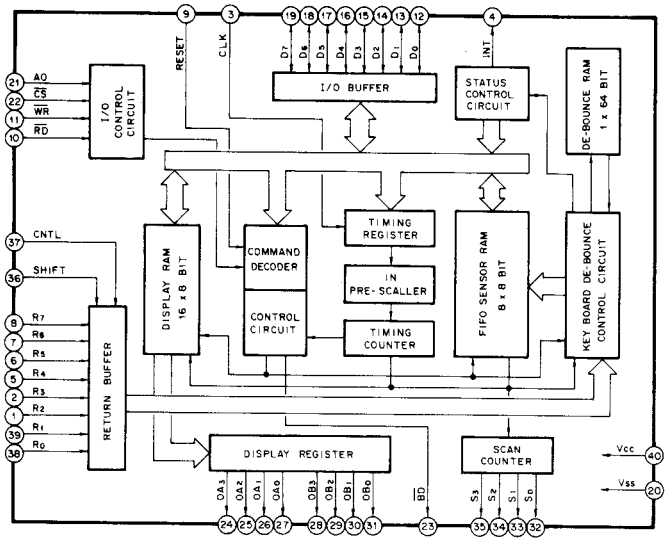
HM6264ALP-15L

8192 WORD x 8 BIT HIGH SPEED CMOS STATIC RAM

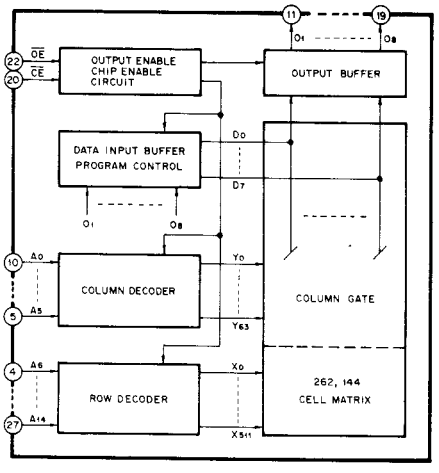


M5L8279P-5

PROGRAMMABLE KEYBOARD/DISPLAY INTERFACE

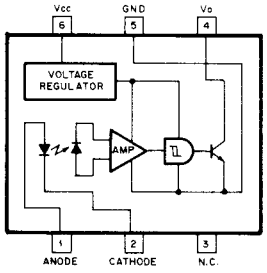


MBM27C256A-20CZ

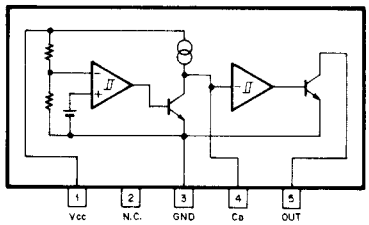


	Pin No.
A0	10
A1	9
A2	8
A3	7
A4	6
A5	5
A6	4
A7	3
A8	25
A9	24
A10	21
A11	23
A12	2
A13	26
A14	27
O1	11
O2	12
O3	13
O4	15
O5	16
O6	17
O7	18
O8	19
Vcc	28
GND	14

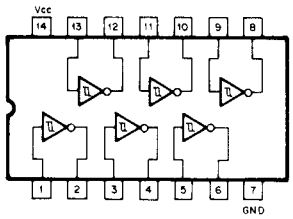
PC900
DIGITAL OUTPUT TYPE
OPIC PHOTO COUPLER



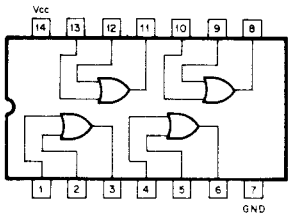
M51953BL
μP RESET



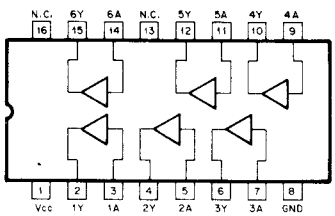
HD74HC14P
HEX SCHMITT INVERTERS



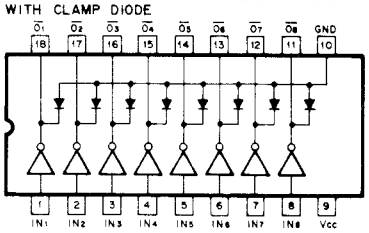
HD74HC32P
QUAD 2-INPUT OR GATES



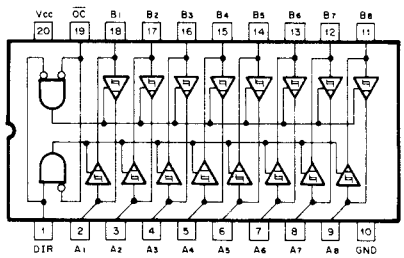
TC74HC4050P
HEX BUFFER/DRIVER



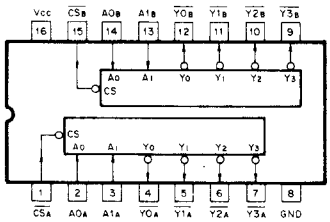
M54581P
8-UNIT 500mA DARLINGTON TRANSISTOR ARRAY
WITH CLAMP DIODE



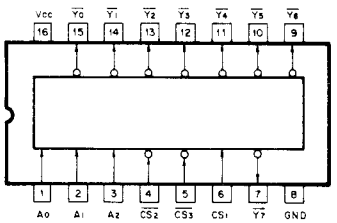
M74LS641-1P



TC74HC139P
DUAL 2-TO-4 LINE DECODER



TC74HC138P
3-TO-8 LINE DECODER



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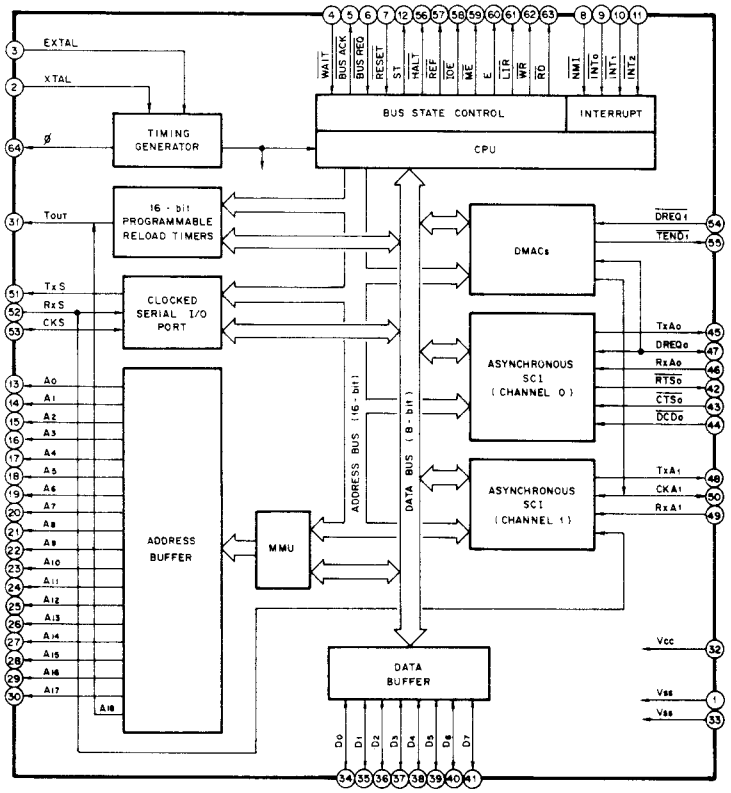

M-2516/2524 RECORDING MIXER

TASCAM
TEAC Professional Division

ティアック株式会社 営業部 ☎ (0422)52-5072代 〒180 東京都武蔵野市中町1－19－18 武蔵野センタービル

技術的なお問合わせ	AV技術相談室	☎ (0425)60-7761	〒190-12 東京都武蔵村山市伊奈平2－11－1
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	福岡営業所	☎ (092)431-5781代	〒812 福岡市博多区東光2－2－24
	福岡サービス	☎ (092)936-5672	〒811-22 福岡県粕屋郡志免町志免1041
	サービス一課	☎ (0425)60-8918	〒190-12 東京都武蔵村山市伊奈平2－11－1

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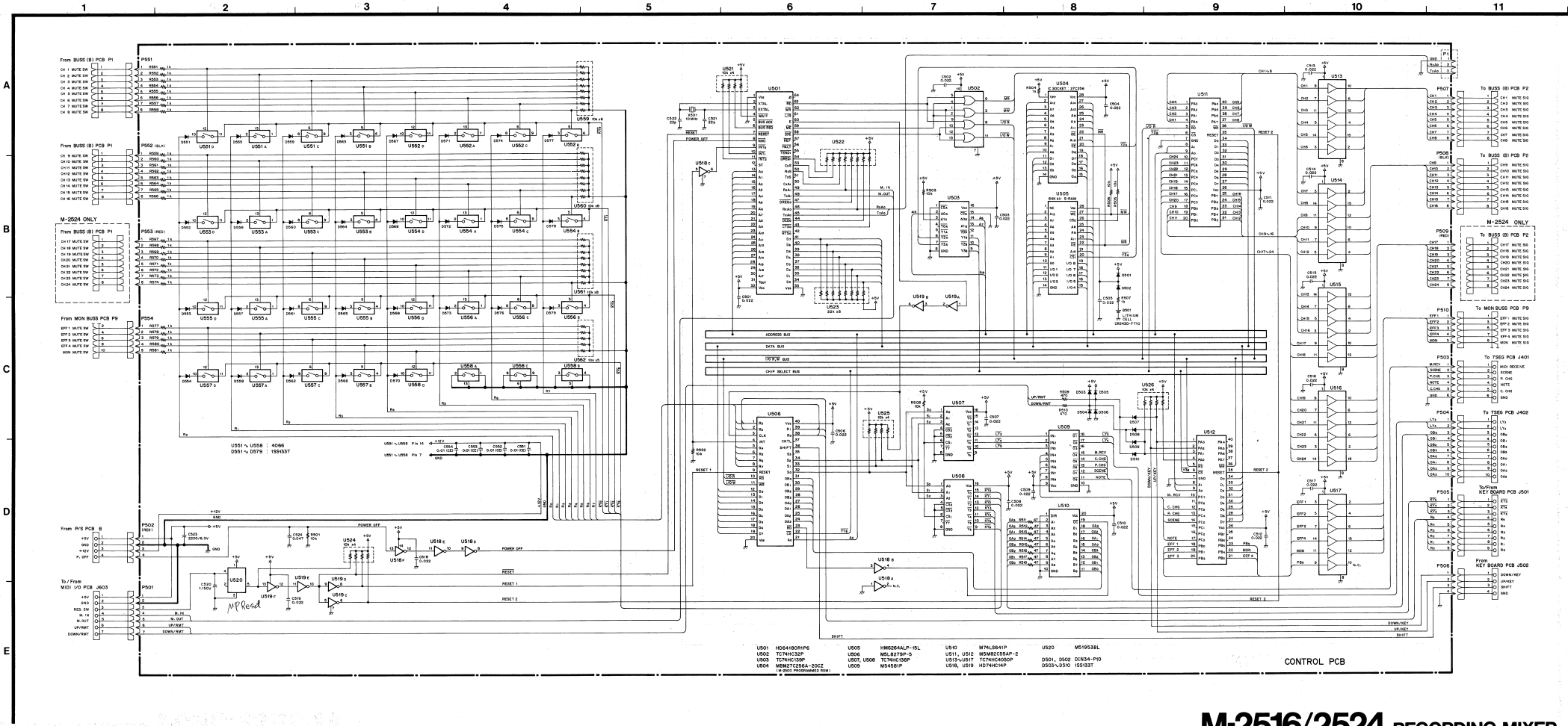
TASCAM
TEAC Professional Division

SCHEMATIC DIAGRAM

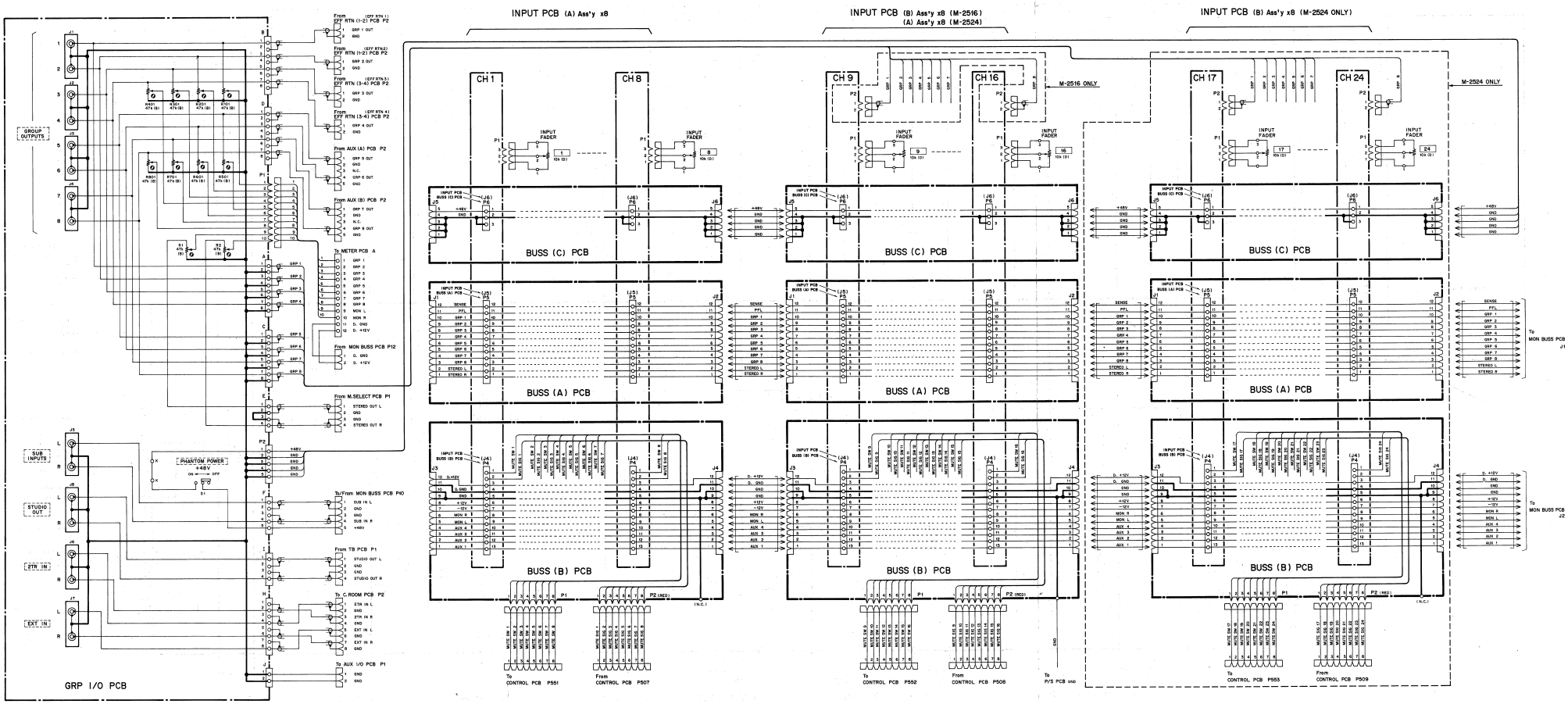
回路図

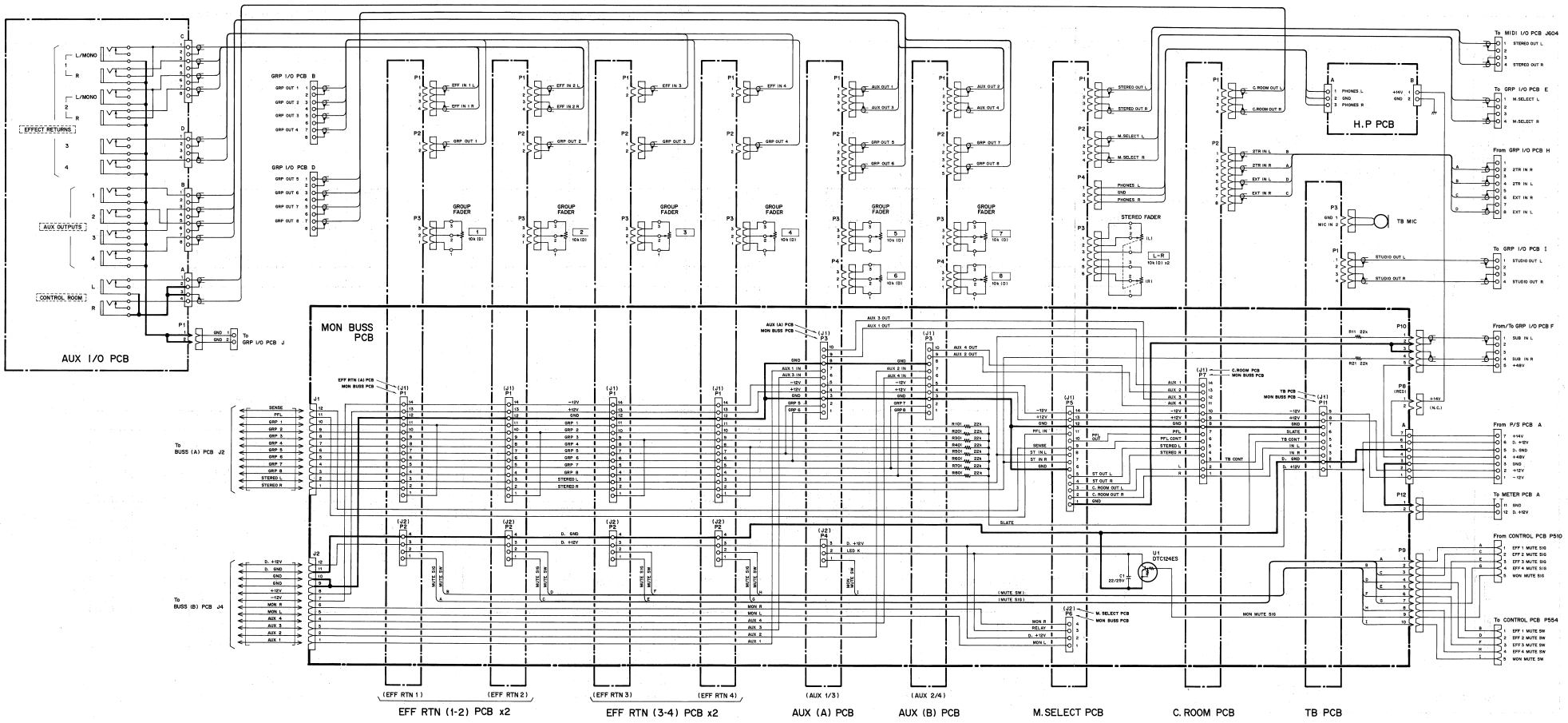
M-2516/M-2524

CONTENTS

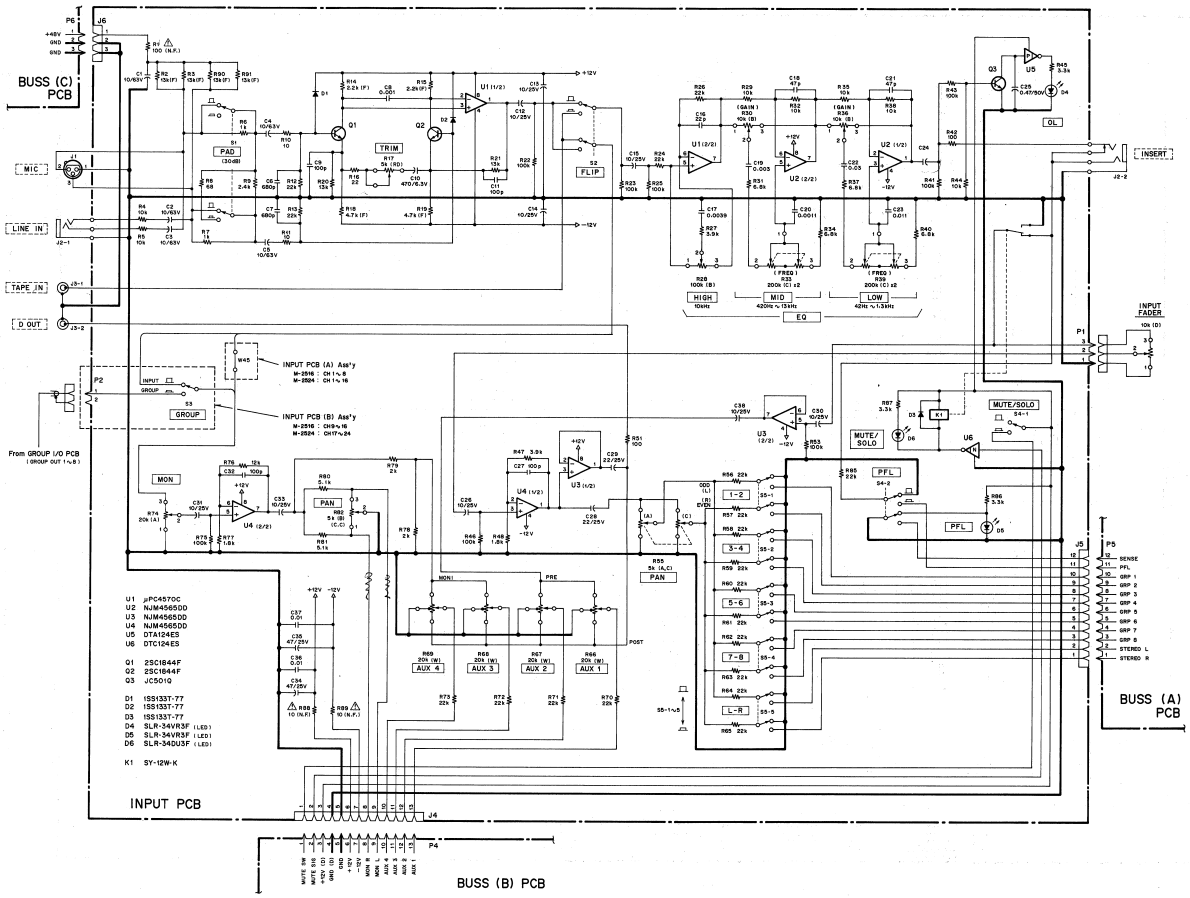


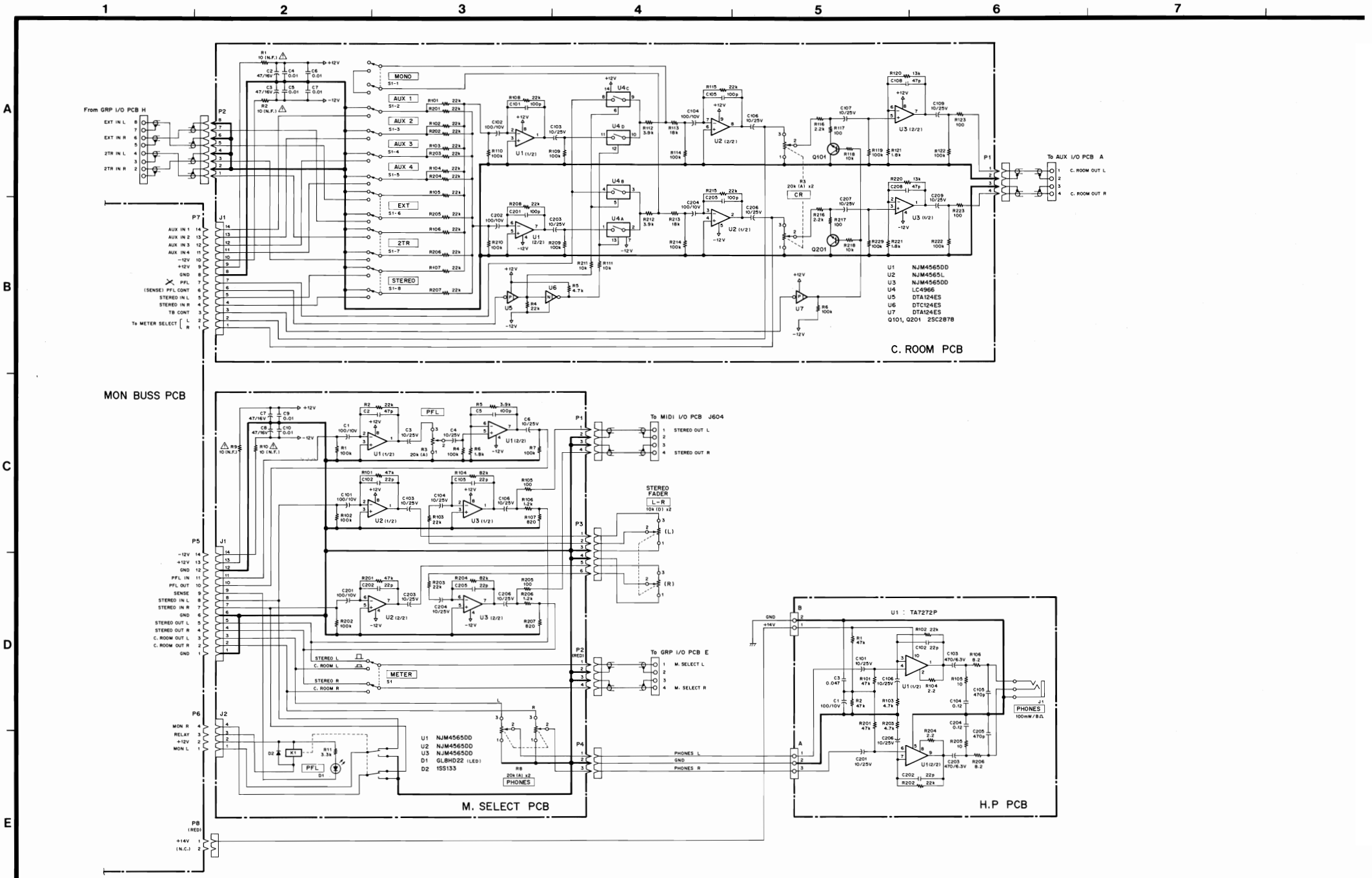
M-2516/2524 RECORDING MIXER

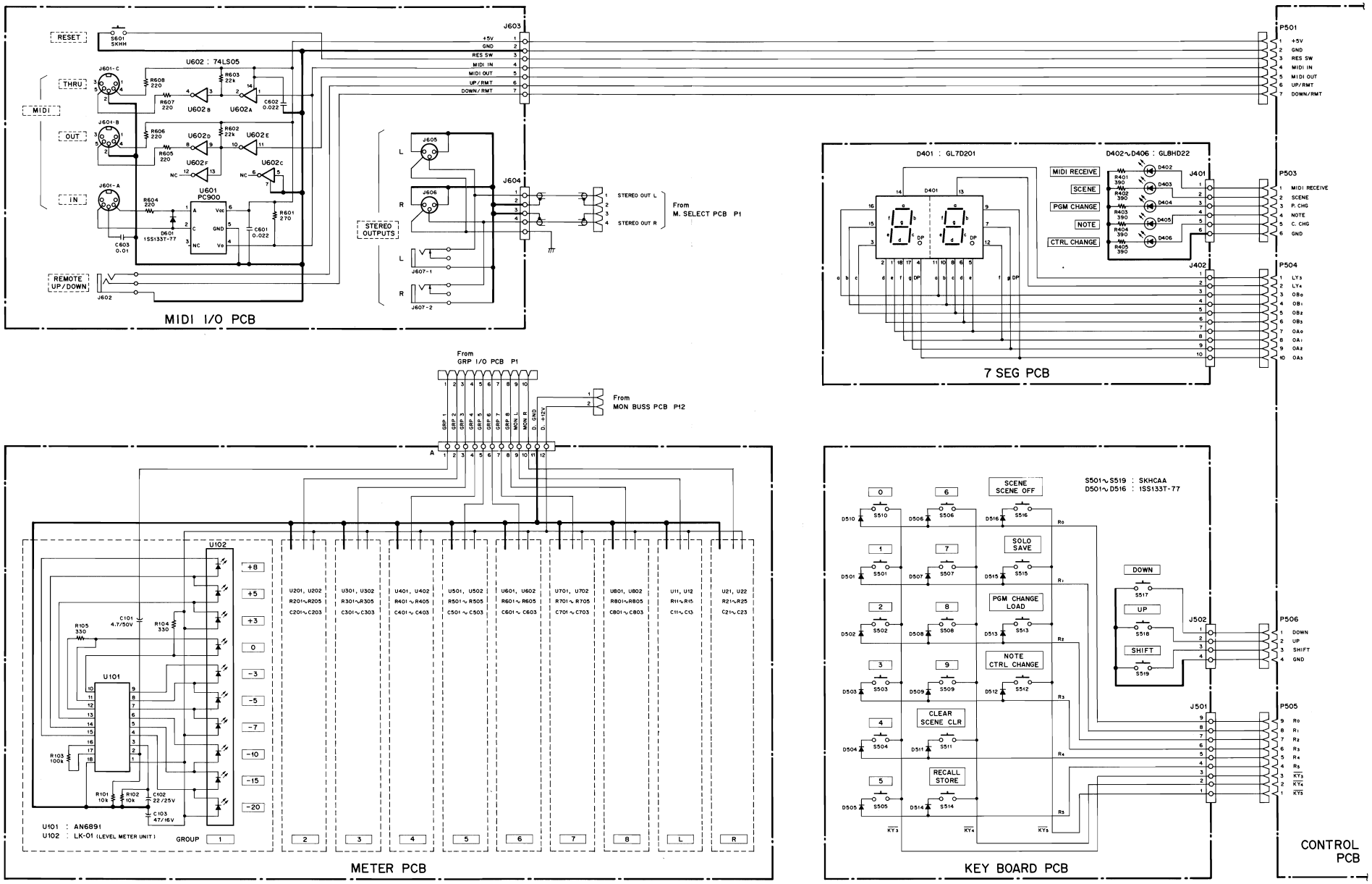

INPUT PCB (A) Ass'y x8
INPUT PCB (B) Ass'y x8 (M-2516)
(A) Ass'y x8 (M-2524)
INPUT PCB (B) Ass'y x8 (M-2524 ONLY)
CH 1
CH 8
CH 9
CH 16
CH 17
CH 24
M-2516 ONLY
M-2524 ONLY
BUSS (C) PCB
BUSS (A) PCB
BUSS (B) PCB
GRP I/O PCB
GROUP OUTPUTS
SUB INPUTS
STUDIO OUT
2TR IN
EXT IN
PHANTOM POWER +48V
To CONTROL PCB P551
From CONTROL PCB P507
To CONTROL PCB P552
From CONTROL PCB P508
To P/S PCB GND
To CONTROL PCB P553
From CONTROL PCB P509
To MON BUSS PCB J1
To MON BUSS PCB J2

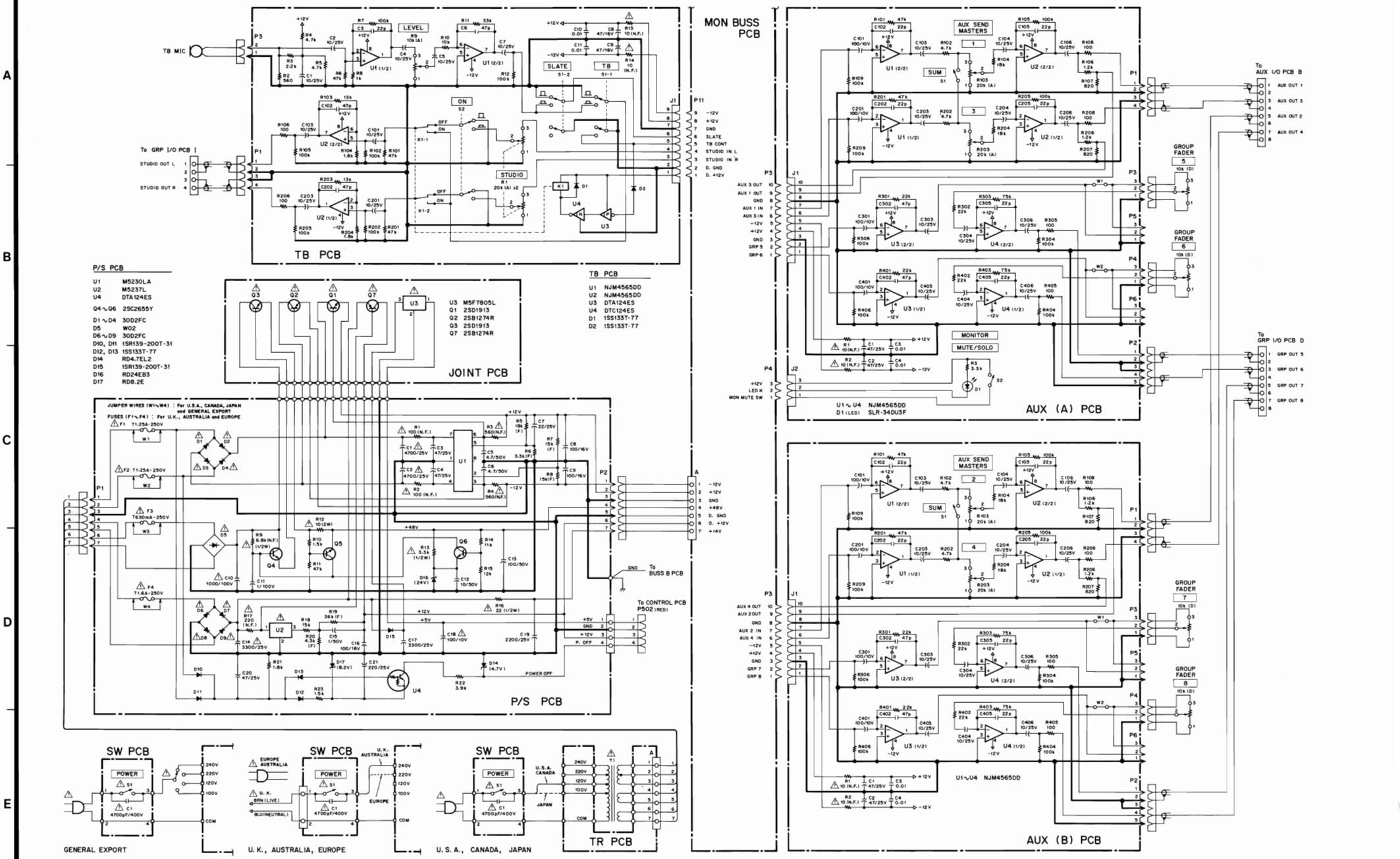


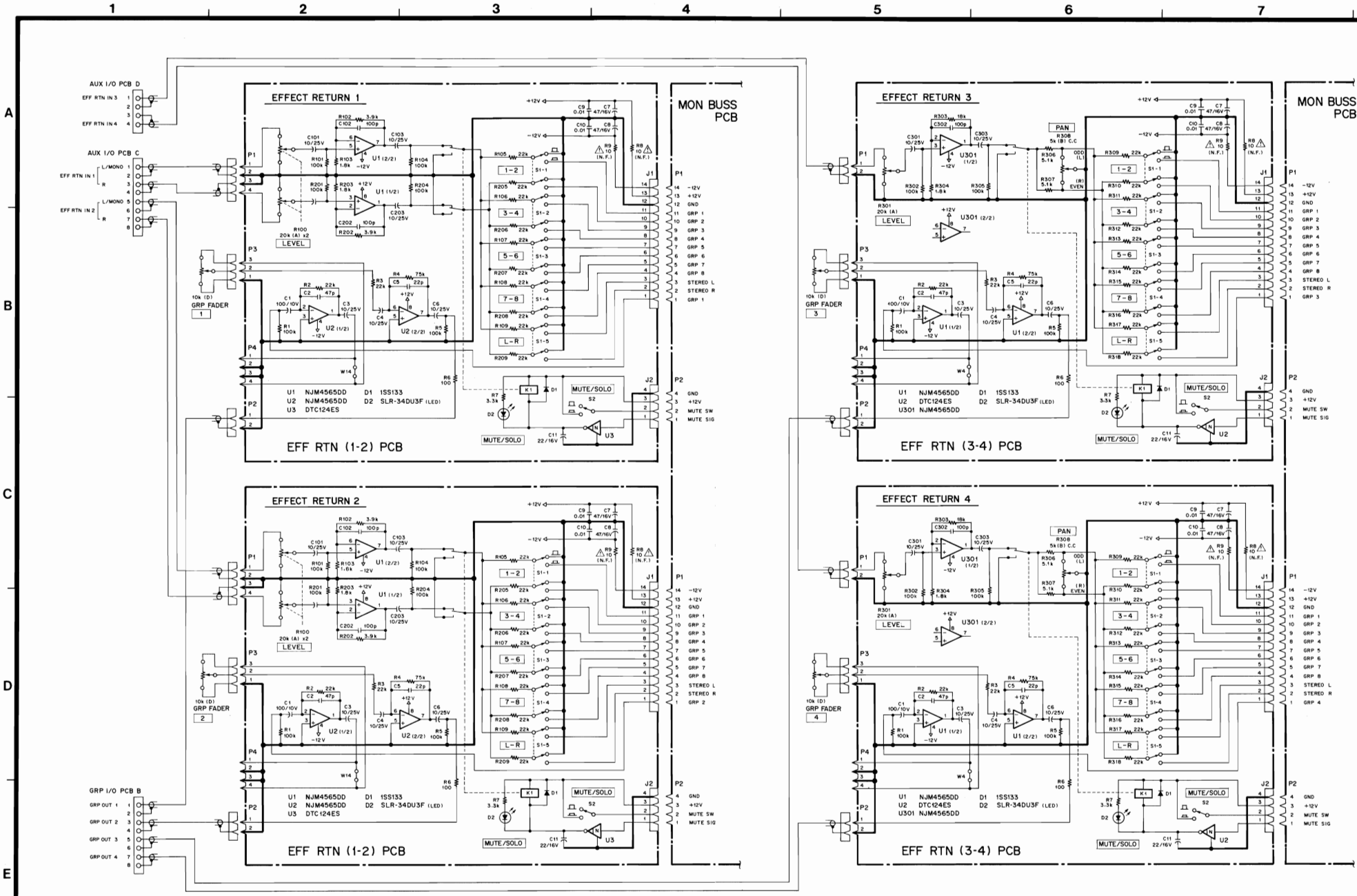
M-2516/2524 RECORDING MIXER


BUSS (C) PCB
MIC
LINE IN
TAPE IN
D OUT
PAD
TRIM
FLIP
HIGH
MID
LOW
EQ
OL
INSERT
INPUT FADER
MUTE/SOLO
PFL
PAN
MON
INPUT PCB (A) Ass'y
M-2516 : CH1∿8
M-2524 : CH1∿16
INPUT PCB (B) Ass'y
M-2516 : CH9∿16
M-2524 : CH17∿24
From GROUP I/O PCB
INPUT PCB
BUSS (B) PCB
BUSS (A) PCB
U1 μPC4570C
U2 NJM4565DD
U3 NJM4565DD
U4 NJM4565DD
U5 DTA124ES
U6 DTC124ES
Q1 2SC1844F
Q2 2SC1844F
Q3 JC501Q
D1 1SS133T-77
D2 1SS133T-77
D3 1SS133T-77
D4 SLR-34VR3F (LED)
D5 SLR-34VR3F (LED)
D6 SLR-34DU3F (LED)
K1 5Y-12W-K


C. ROOM PCB
MON BUSS PCB
M. SELECT PCB
H.P PCB
U1 NJM4565DD
U2 NJM4565L
U3 NJM4565DD
U4 LC4966
U5 DTA124ES
U6 DTC124ES
U7 DTA124ES
Q101, Q201 2SC2878
U1 : TA7272P
U1 NJM4565DD
U2 NJM4565DD
U3 NJM4565DD
D1 GL8HD22 (LED)
D2 1SS133


MIDI I/O PCB
7 SEG PCB
METER PCB
KEY BOARD PCB
CONTROL PCB
U602 : 74LS05
U601 PC900
U101 : AN6891
U102 : LK-01 (LEVEL METER UNIT)
D401 : GL7D201
D402∿D406 : GL8HD22
S501∿S519 : SKHCAA
D501∿D516 : 1SS133T-77
From M. SELECT PCB P1
From GRP I/O PCB P1
From MON BUSS PCB P12


TB PCB
JOINT PCB
P/S PCB
AUX (A) PCB
AUX (B) PCB
MON BUSS PCB
TR PCB
SW PCB
GENERAL EXPORT
U.K., AUSTRALIA, EUROPE
U.S.A., CANADA, JAPAN
P/S PCB
U1 M5230LA
U2 M5237L
U4 DTA124ES
Q4∿Q6 2SC2655Y
D1∿D4 30D2FC
D5 W02
D6∿D9 30D2FC
D10, D11 1SR139-200T-31
D12, D13 1SS133T-77
D14 RD4.7EL2
D15 1SR139-200T-31
D16 RD24EB3
D17 RD8.2E
TB PCB
U1 NJM4565DD
U2 NJM4565DD
U3 DTA124ES
U4 DTC124ES
D1 1SS133T-77
D2 1SS133T-77
U3 M5F7805L
Q1 2SD1913
Q2 2SB1274R
Q3 2SD1913
Q7 2SB1274R
U1∿U4 NJM4565DD
D1 (LED) SLR-34DU3F
U1∿U4 NJM4565DD


AUX I/O PCB D
EFF RTN IN 3
EFF RTN IN 4
AUX I/O PCB C
L/MONO
R
EFF RTN IN 1
L/MONO
R
EFF RTN IN 2
EFFECT RETURN 1
EFF RTN (1-2) PCB
EFFECT RETURN 2
EFF RTN (1-2) PCB
EFFECT RETURN 3
EFF RTN (3-4) PCB
EFFECT RETURN 4
EFF RTN (3-4) PCB
MON BUSS PCB
LEVEL
GRP FADER
MUTE/SOLO
U1 NJM4565DD
U2 NJM4565DD
U3 DTC124ES
D1 1SS133
D2 SLR-34DU3F (LED)
U301 NJM4565DD
GRP I/O PCB B
GRP OUT 1
GRP OUT 2
GRP OUT 3
GRP OUT 4