

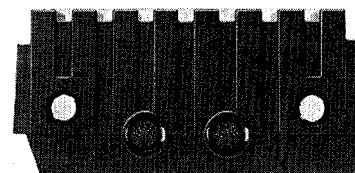
MULTITRACK
CASSETTE RECORDER

MIDI CONVERTER

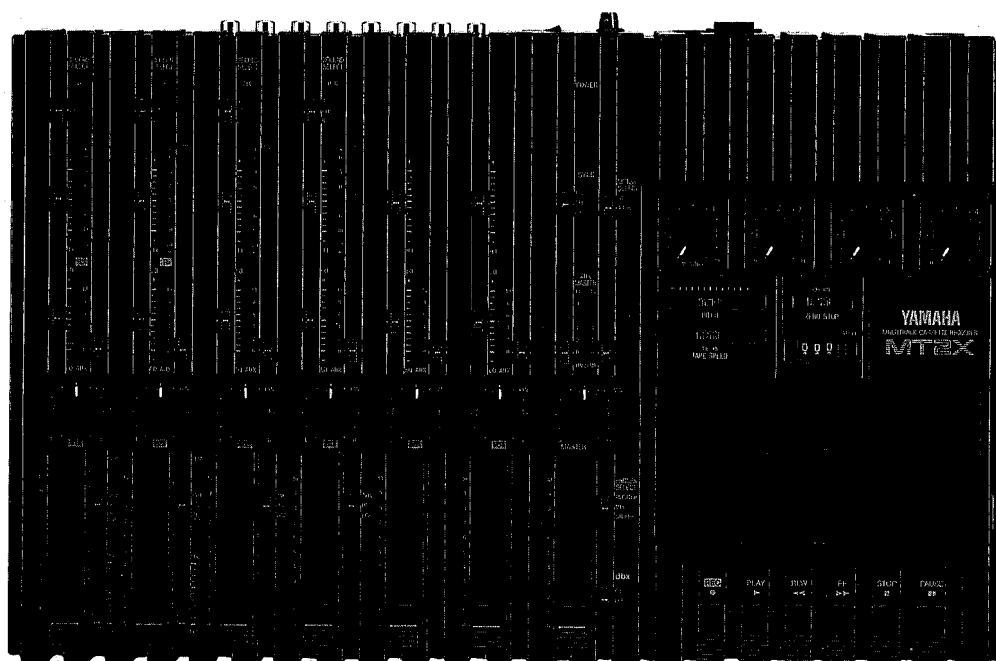
MT2X/YMC2

SERVICE MANUAL

YMC2



MT2X



MT2X

■CONTENTS

SPECIFICATIONS.....	2
PANEL LAYOUT.....	3
BLOCK DIAGRAM.....	4
IC BLOCK DIAGRAM.....	5
ADJUSTMENTS.....	6
CIRCUIT BOARDS.....	8
PARTS LIST	



IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit/s indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

SPECIFICATIONS

TRANSPORT

Tape type	Chrome (70 microsec. EQ)
Heads	4-channel Permalloy rec/play 4-channel ferrite erase
Tape speeds	4.8 cm/sec, 9.5 cm/sec
Pitch control	± 10%
Wow & flutter	Less than 0.05% WRMS
Fast wind	Approx 100 sec, for C-60 tape
Motor	DC servo

CONNECTORS

Inputs 1, 2:	Input impedance	10 k-ohms
	Rated input level	- 10 to - 50 dB (fader nominal)
	Max. input level	+ 10 dB (trim min.)
	Min. input level	- 56 dB (trim, fader max.)
Inputs 3~6:	Input impedance	10 k-ohms
	Rated input level	- 10 dB (fader nominal)
	Min. input level	- 16 dB (fader max.)
Aux return L, R:	Input impedance	10 k-ohms
	Rated input level	- 10 dB (fader nominal)
	Min. input level	- 16 dB (fader max.)
Stereo L, R:	Output impedance	1 k-ohm
	Load impedance	Greater than 10 k-ohms
	Rated output level	- 10 dB into 50 k-ohms
Phones out:	Load impedance	8-40 ohms
	Max. output level	100 mW + 100 mW
Tape out 1-4:	Output impedance	1 k-ohm
	Load impedance	Greater than 10 k-ohms
	Rated output level	- 10 dB into 50 k-ohms
Aux send:	Output impedance	1 k-ohm
	Load impedance	Greater than 10 k-ohms
	Rated output level	- 10 dB into 50 k-ohms

ELECTRICAL SPECIFICATIONS

Equalizer	HIGH: ± 10 dB at 10 kHz (shelving) LOW: ± 10 dB at 100 Hz (shelving)
Frequency responder	40 Hz ~ 18 kHz, ± 3 dB at 9.5 cm/sec 40 Hz ~ 12.5 kHz, ± 3 dB at 4.8 cm/sec
S/N ratio	85 dB, dbx ON, IHF-A
Distortion	Less than 1%, EIAJ 315 Hz
Channel separation	Greater than 55 dB at 1 kHz
Erase ratio	Greater than 70 dB at 1 kHz
Noise reduction	dbx*

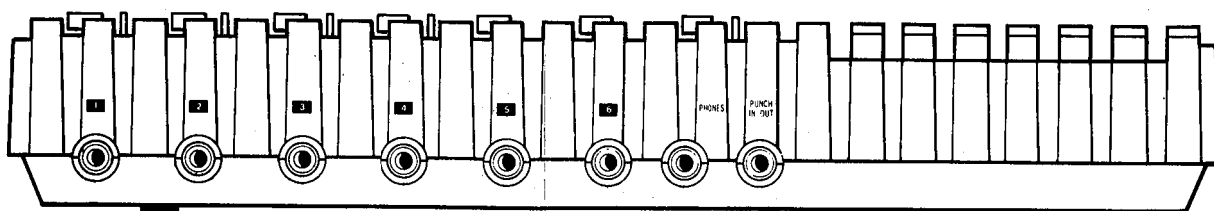
OTHERS

Power supply	U.S. & Canadian Models: 120V, 50/60 Hz General Model: 110/120/220/240V, 50 Hz
Power consumption	U.S. Model: 23W Canadian Model: 21W General Model: 21W
Dimensions (W × H × D)	413 × 75 × 260 mm (16-1/4 × 3 × 10-1/4")
Weight	3.5 kg (7.7 lbs.)

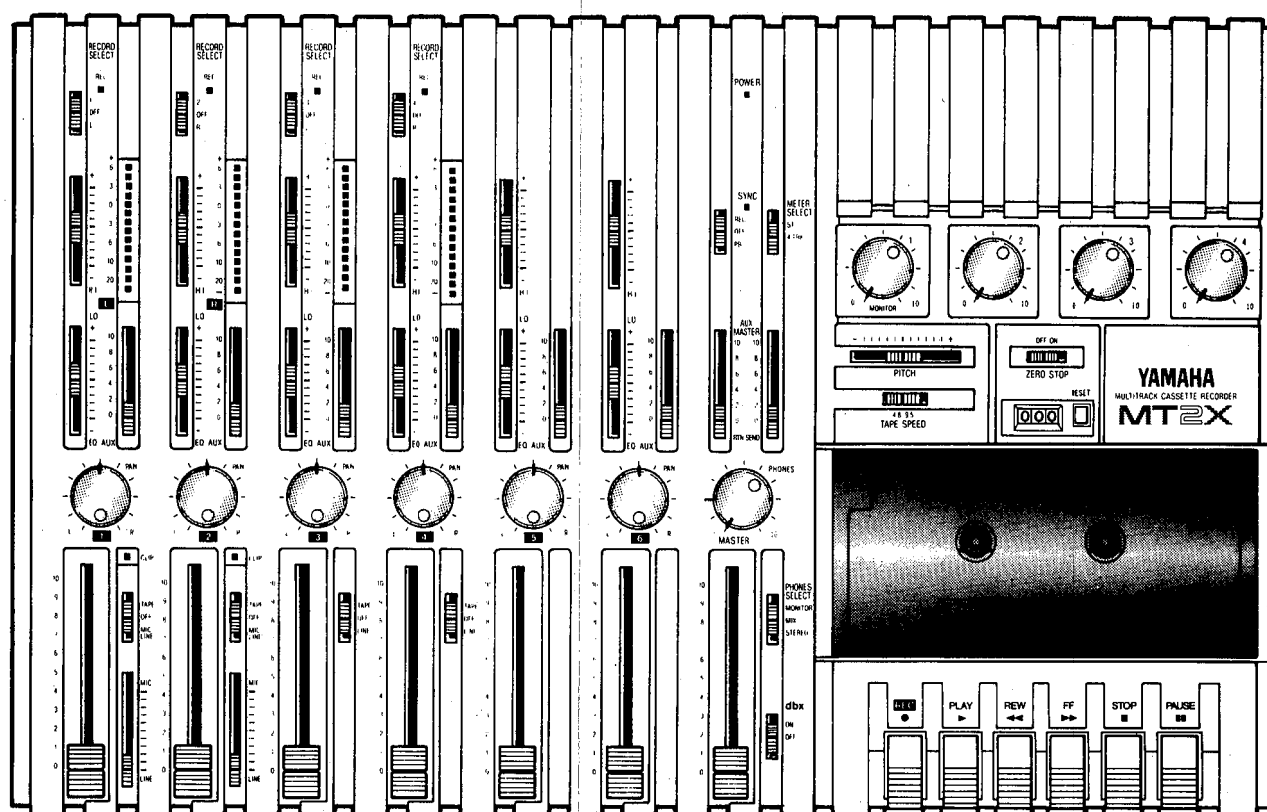
*dbx is a trademark of dbx Incorporated.
All specifications subject to change without notice.

■ PANEL LAYOUT

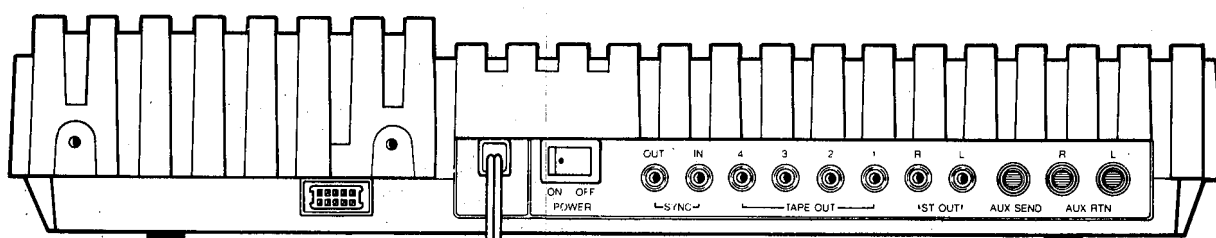
● Front Panel



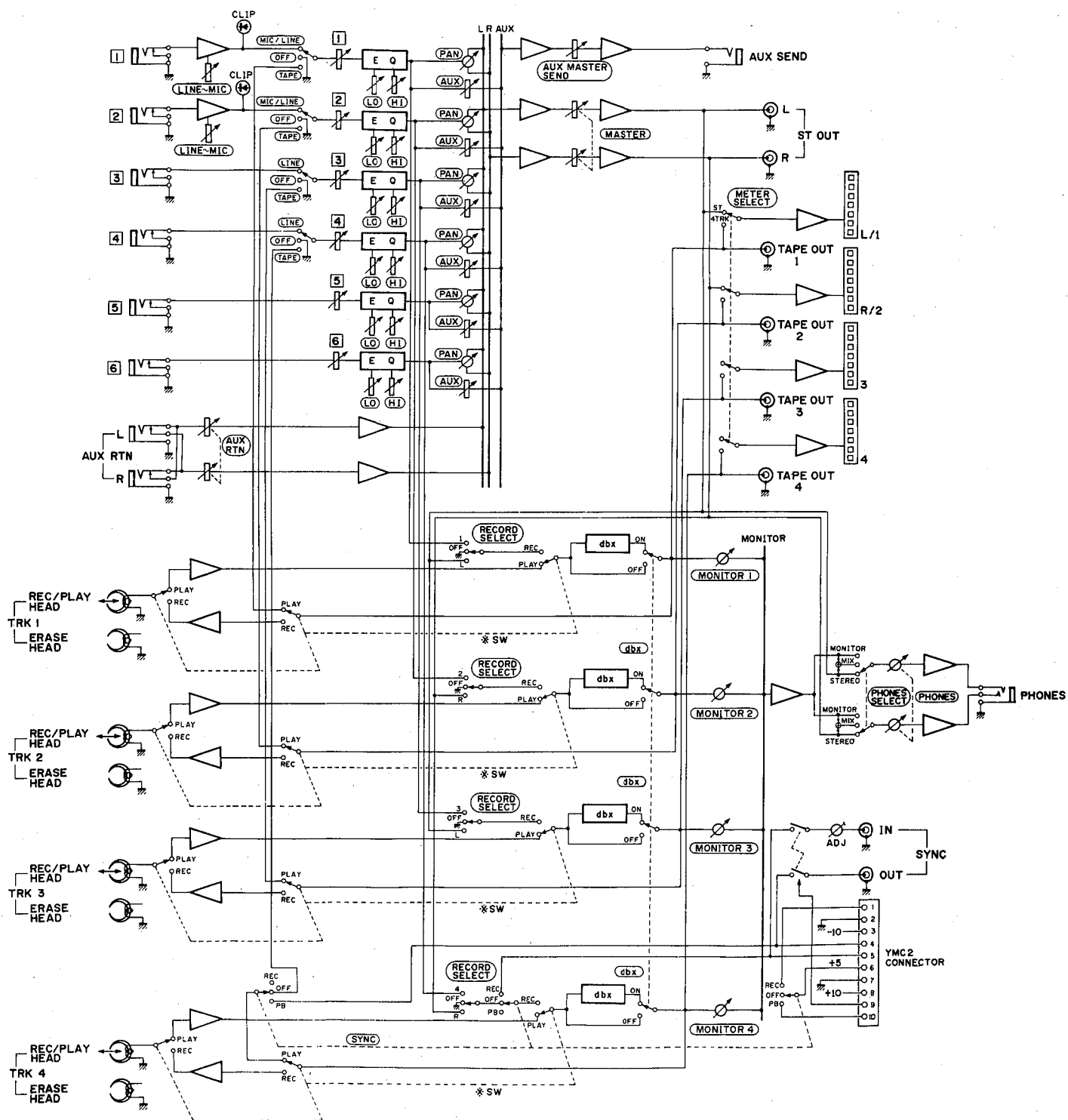
● Mixer Section



● Rear Panel



BLOCK DIAGRAM



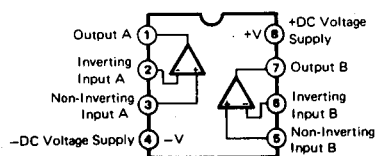
NOTE: When the REC button is engaged, the panel switches can be used to individually order recording on only those channels with RECORD SELECT not switched "OFF".

IC BLOCK DIAGRAM

● NJM2041S

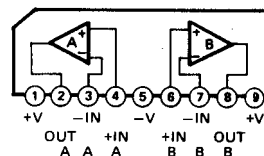
● NJM4559D

Dual Operational Amplifier



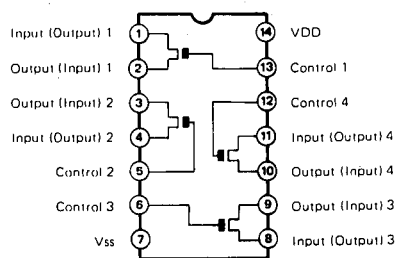
● SVINJM2043SE

Dual Operational Amplifier



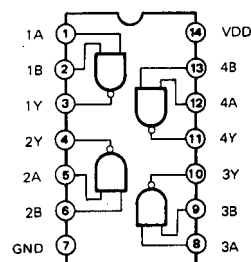
● LC4066BS

Quad Bilateral Switch

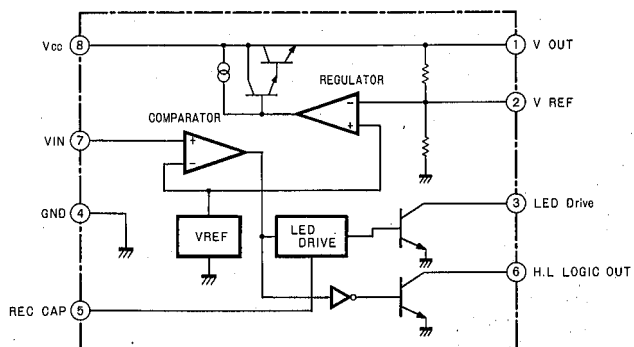


● M4011BP

Quad 2 Input NAND

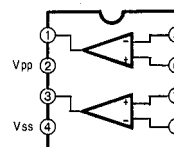


● M5232L



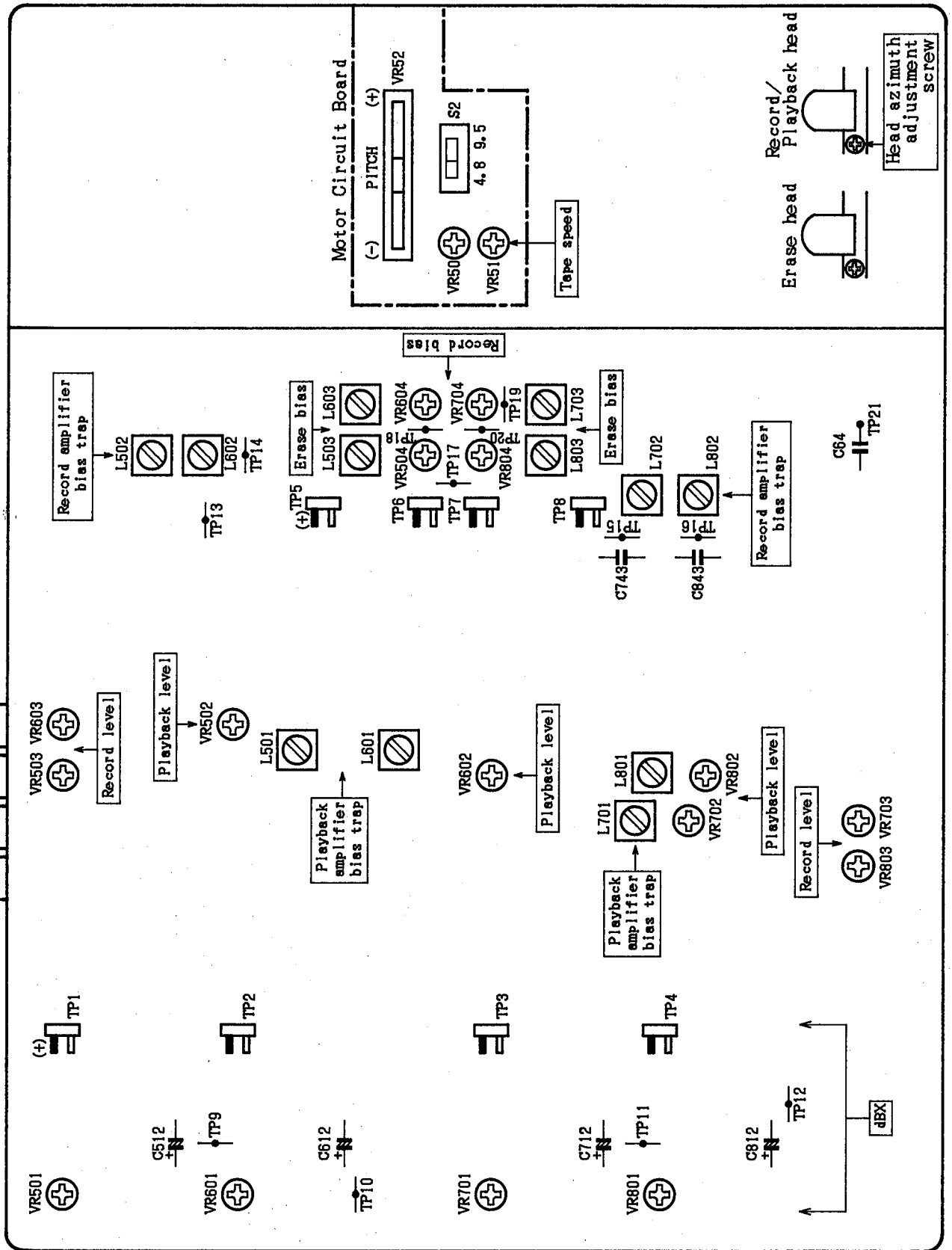
● NJM2073

Dual Low Voltage Power Amplifier



■ ADJUSTMENTS

● Adjustment Locations



• Cassette Section Adjustments

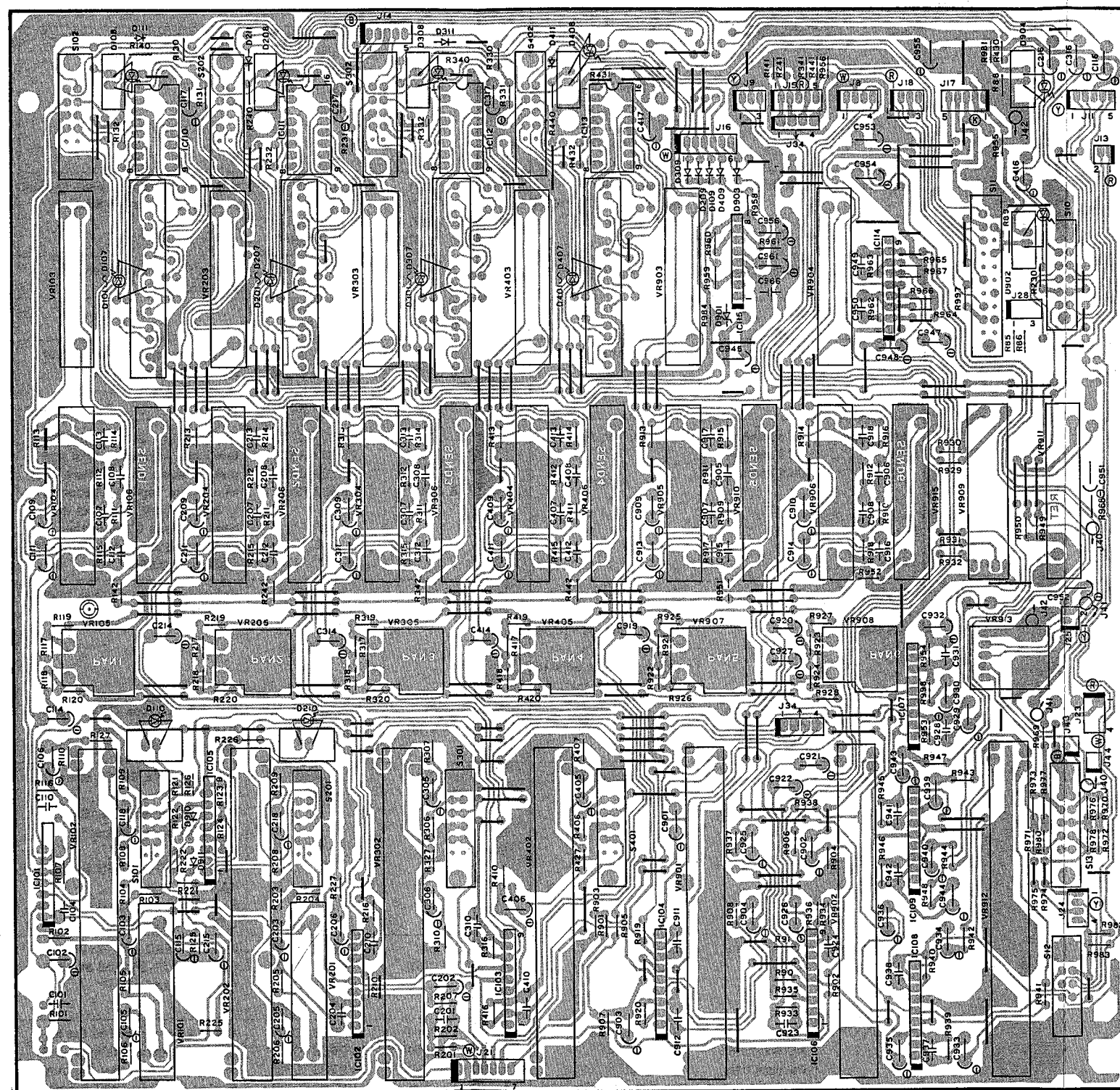
Adjustment	Equipment Required	Control/Switch Settings	Measure at	Adjust	Rating
dbx	DC voltmeter	Apply a signal of 40mV at 1kHz to the AUX RTN JACK. AUX RTN Volume: MAX MASTER Volume: MAX REC switch: On dbx switch: On (TP9-12: 20mv)	TP 1 (CH1) TP 2 (CH2) TP 3 (CH3) TP 4 (CH4)	VR501 (CH1) VR601 (CH2) VR701 (CH3) VR801 (CH4)	Adjust for voltmeter reading of 15mV $\pm$ 1mV.
Erase bias	Oscilloscope	Record Select switch: On (CH1~CH4) REC button: On	TP17 (CH1) TP18 (CH2) TP19 (CH3) TP20 (CH4)	L503 (CH1) L603 (CH2) L703 (CH3) L803 (CH4)	Adjust for maximum peak to peak voltage (6-8v) at 77-87kHz.
Record amplifier bias trap	Oscilloscope	Same as the above.	TP13 (CH1) TP14 (CH2) TP15 (CH3) TP16 (CH4)	L502 (CH1) L602 (CH2) L702 (CH3) L802 (CH4)	Adjust for minimum peak to peak voltage.
Record bias	AC voltmeter	Same as the above.	TP 5 (CH1) TP 6 (CH2) TP 7 (CH3) TP 8 (CH4)	VR504 (CH1) VR604 (CH2) VR704 (CH3) VR804 (CH4)	Adjust for voltmeter reading of 5.0mV at about 82kHz.
Record level	AF oscillator AC voltmeter Oscilloscope	Same as the above.	TP 5 (CH1) TP 6 (CH2) TP 7 (CH3) TP 8 (CH4)	VR503 (CH1) VR603 (CH2) VR703 (CH3) VR803 (CH4)	Apply a 1kHz signal to the Input terminals. Adjust the input and master faders so that the output level at the Tape Out becomes -10dB (245mV). Connect the capacitor lead (C64) to the ground and adjust for voltmeter reading of 0.58mV.
Playback amplifier bias trap	Oscilloscope	Record Select switch for CH1 : Off (other 3 channels to be On) REC button: On CH2~CH4 are adjusted the same as CH1	Tape Out (CH1)	L501 (CH1) L601 (CH2) L701 (CH3) L801 (CH4)	Adjust for minimum peak to peak voltage at about 82kHz.
Azimuth	AC voltmeter Oscilloscope		Tape Out (CH1~CH4)	Azimuth adjustment screw	Play the test tape (TEAC* MTT-114N, 10kHz) and adjust for maximum output.
Tape speed	Wow/flutter meter or frequency counter	Pitch control (VR52): center	Tape Out (CH1)	VR50 VR51	Turn the TAPE SPEED switch "9.5cm/s." Play the test tape (TEAC MTT-111N, 3kHz) and adjust for 6,000Hz $\pm$ 10Hz. Turn the TAPE SPEED switch "4.8cm/s." Play the test tape and adjust for 3,000Hz $\pm$ 10Hz.
Playback level	AC voltmeter	dbx switch: Off RL: 10k Ω	Tape Out (CH1~CH4)	VR502 (CH1) VR602 (CH2) VR702 (CH3) VR802 (CH4)	Play the TEAC MTT-212N test tape (or MTT-212CN) and adjust for -10dB, 245mV.
dBx ON/OFF	AF oscillator AC voltmeter Oscilloscope	Record Select switch : On (CH1~CH4) REC button : ON Input level: -20v μ	TP 5 (CH1) TP 6 (CH2) TP 7 (CH3) TP 8 (CH4)	VR503 (CH1) VR603 (CH2) VR703 (CH3) VR803 (CH4)	Apply a 1kHz signal to the Input terminals. Adjust the input and master faders so that the output level at the Tape Out becomes -10dB (245mV). Connect the capacitor lead (C64) to the ground and adjust for voltmeter reading of 0.58mV. Turn the dBX on and adjust for $\pm$ 3.5dB at 1kHz.

* TEAC is a trademark of TEAC Corporation.

Connect a 10Kohm load resistor at the Tape Out jack when measuring the signal.
When dB represents a specific voltage, OdB is referenced to 0.775VRMS.

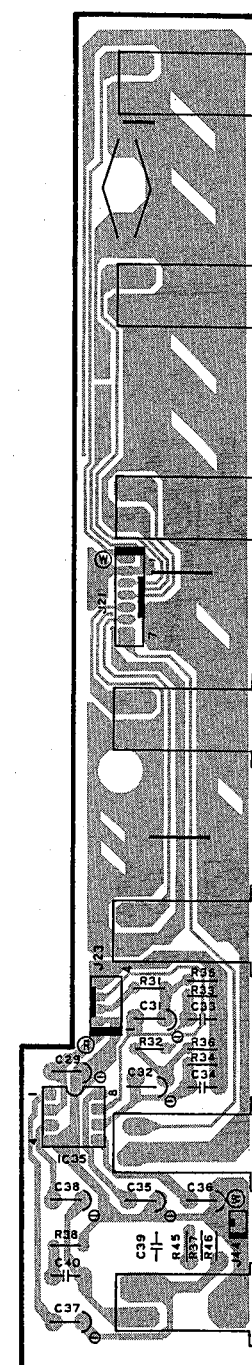
CIRCUIT BOARDS

Mixer Circuit Board



< Components side >

Jack Circuit Board



Mixer Circuit Board

Notes)

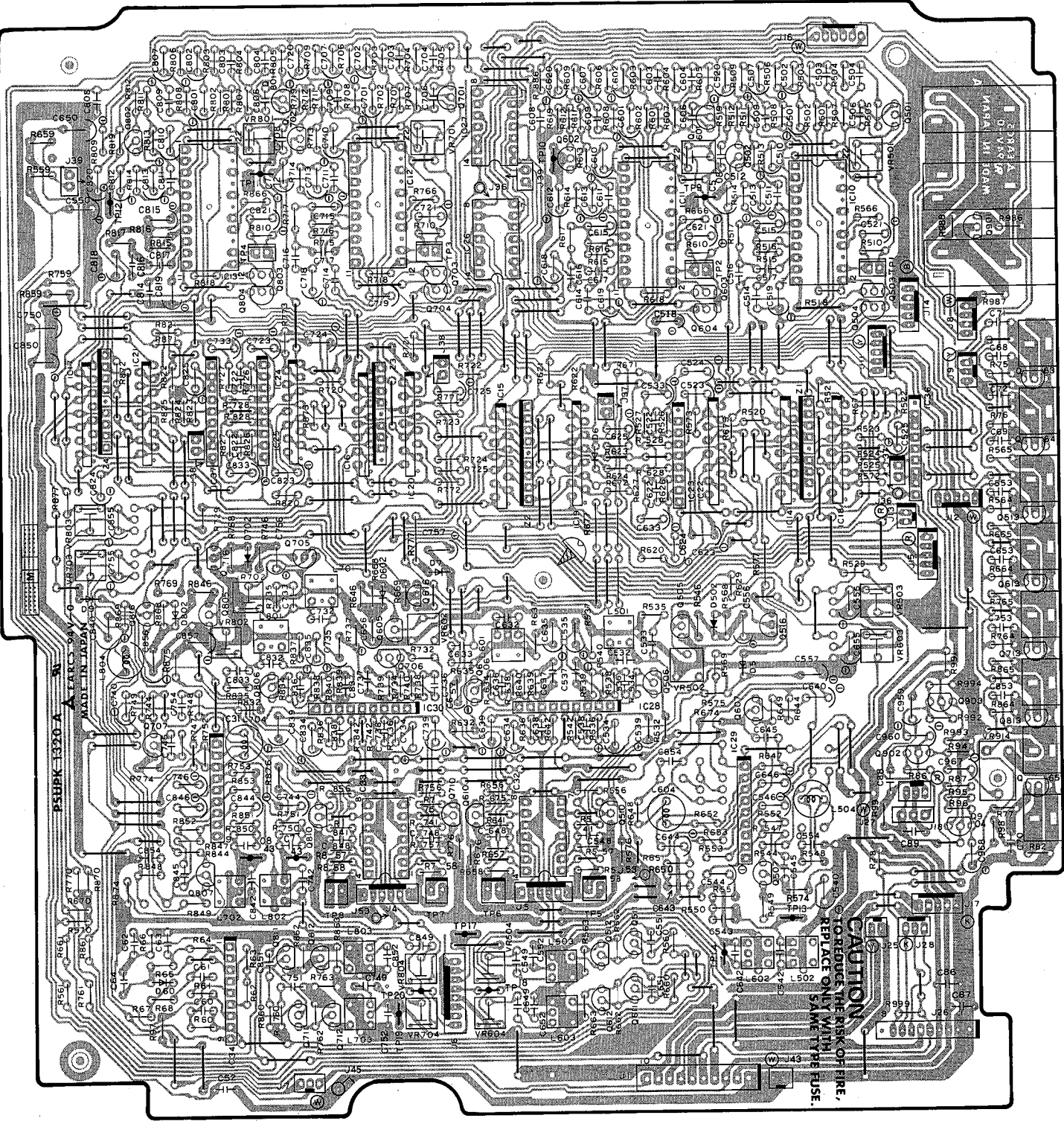
- IC
IC101, 102: NJM2041S (IX801210)
IC103, 104, 106~109, 114: AN6555 (IX801670)
IC105: M5223L (XX808740)
IC110~113: LB1408 (IX801500)
IC115: M5232L (IG053800)
- Diode
D901: MA4091LTA (XX809540)
D109, 209, 309, 409, 111, 211, 311, 411, 903, 910, 911: SVD1SS119-04T (XX808790)
- LED
D101, 102, 201, 202, 301, 302, 401, 402: SVDGL-102R83 (XX808830) RED
D103~107, 203~207, 303~307, 403~407: SVDGL-105H83 (XX808840) ORANGE
D110, 210, 902, 904, 108, 208, 308, 408: LN265RPH (XX808820) RED
- Variable Resistor
VR101, 201: PSVR251815A15 (HX801070) TRIM
VR102, 202, 302, 402, 901, 902: EWAQFOX15C14 (XX808920) CH FADER
VR103, 104, 203, 204, 303, 304, 403, 404, 903~906: BASS TRE
VR105, 205, 305, 405, 907, 908: PSVS251815C15 (XX808930) BASS TRE
VR106, 206, 306, 406, 910, 911, 915: PSVR121N015B14 (XX808890) PAN POT
VR909: AUX SEND
VR912: PSVS251815A14 (XX808940) AUX SEND
VR913: PSVR252815A14 (HX801080) AUX RTN
EWAQAOX15C14 (XX809100) MASTER FADER
PSVR122J015A15 (XX808970) PHONES LEVEL
- Switch
S10: PSSSK8 (XX809020) METER SELECTOR
S11: PSSSK12 (KX800470) TAPE SYNC
S12: PSSSK13 (KX800480) ZERO RETURN, DBX
S13, 101, 201, 301, 401: PSSSK7 (XX809030)
S102, 202, 302, 402: PSSSK9 (XX809050) REC SELECTOR

Jack Circuit Board

Notes)

- IC35: NJM2073 (XX808770)

● Cassette Circuit Board



< Components side >

Cassette Circuit Board

Notes)

1. IC
 - IC10~13:
 - IC14~22, 24:
 - IC23, 25, 29, 31, 36, 37:
 - IC26, 27:
 - IC28, 30, 34:
 - IC32,33:
2. Transistor
 - Q63~65, 513, 613, 713, 813, 901:
 - Q501, 502, 601, 602, 701, 702, 801, 802, 903:
 - Q503, 504, 603, 604, 703, 704, 803, 804:
 - Q505, 605, 705, 805:
 - Q510, 610, 710, 810:
 - Q511, 611, 711, 811:
 - Q512, 612, 712, 812:
 - Q516, 616, 716, 816:
3. FET
 - Q506, 507, 606, 607, 706, 707, 806, 807, 902, 904:
4. Diode
 - D5~7:
 - D8:
 - D8:
5. Resistor Array
 - Z1~4:
6. Variable Resistor
 - VR501, 601, 701, 801:
 - VR502, 602, 702, 802:
 - VR503, 603, 703, 803:
 - VR504, 604, 704, 804:
 - VR914:

AN6291 (IG146100)
 LC4066BS (IX801440)
 AN6555 (IX801670)
 M4011BP (IG001240)
 SVINJM2043SE (XX808720)
 μ PC1290C (XA508001)

2SC2878B-T (IX800060)

2SC3311 S-T (IX801680)

UN4114 R-T (IX802010)
 2SD1915--TA
 UN4211 R-T (IX802020)
 2SD1302 R, S (ID130200)
 2SC1383 R (XX808800)
 UN4214 (IX553400)

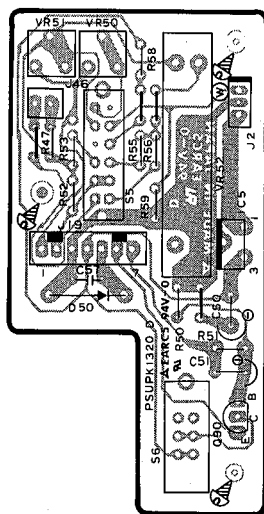
2SK655 (IX802000)

SVD1SS119-04T (XX808790)
 SVD1SS119-04 (XX808790)
 MA150 (IX801150)

EXB-F8E104J (HX801150)

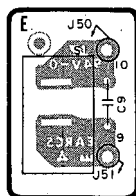
EVND4AA00B23 (XX808850)
 EVND4AA00B53 (XX808880)
 EVND4AA00B14 (XX808860)
 EVND4AA00B15 (XX808870)
 EVNB1AA00B54

● Motor Circuit Board



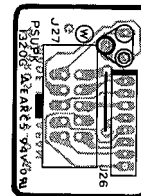
< Components side >

● Power Switch Circuit Board



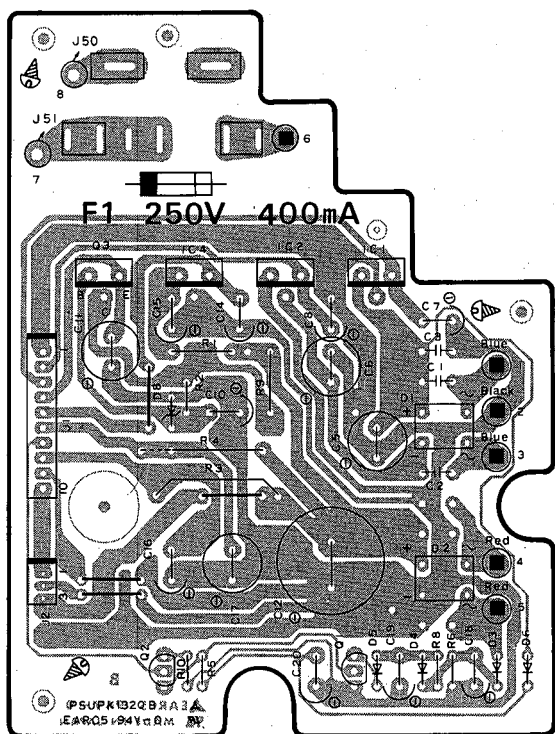
< Components side >

● MIDI Circuit Board



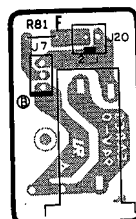
< Components side >

● Power Supply Circuit Board



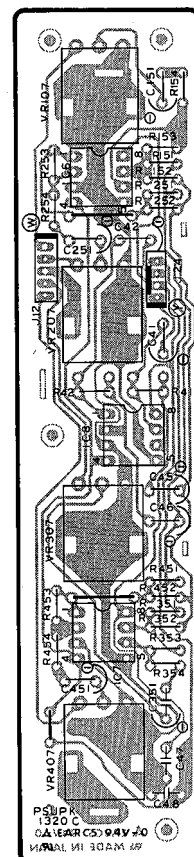
< Components side >

● Punch In/Punch Out Circuit Board



< Components side >

● Monitor Circuit Board



< Components side >

Motor Circuit Board
(Notes)

1. IC
IC5: AN78M09 (IG061200)
2. Transistor
Q90: 2SC1383 R (XX808800)
3. Diode
D50: SVD1SR35-200LF (XX808780)
4. Variable Resistor
VR50, 51: EVND4AA00B53 (XX808880)
VR52: PSVS251815B53 (XX808880)
5. Switch
S5: PSSSK8 (XX809020)
S6: PSSSK13 (KX800480)

Power Switch Circuit Board
(Notes)

Power Switch: EST2011B (KX800450)

Power Supply Circuit Board
(Notes)

1. IC
IC1: AN78M10F (IG075400)
IC2: AN79M10F (XB930001)
IC4: AN78N05 (XA507001)
2. Transistor
Q1: 2SC3311 S-T (IX801680)
Q2: 2SA1015 Y, GR (IA101531)
Q3: 2SD1265 O, P (IX606390)
3. Diode
D1, 2: SVD1B4B42 (IX801170)
D3, 4, 6: SVD1SS119-04T (XX808790)
D5: MA29WA-T (IX801530)
4. Zener Diode
D8: MA4120M (IX801130)

Monitor Circuit Board
(Notes)

1. IC
IC6~8: NJM4559D (IG039600)
2. Variable Resistor
VR107, 207, 307, 407: PSVR121N015A54 (XX808900)

- Product for CANADA only

FUSE REPLACEMENT

 Symbol located near the fuse indicates fast operating type. To reduce the risk of fire, replace only with same type fuse.

FUSIBLE REMPLACEMENT

 Le symbole qui se trouve près du fusible signifie un fusible à action rapide. Afin de réduire le risque de feu, remplacer uniquement par un fusible de même type.

MULTITRACK CASSETTE RECORDER

MT2X

PARTS LIST

Notes DESTINATION ABBREVIATIONS

J : Japanese model	A : Australian model
U : U.S. model	E : European model
C : Canadian model	D : West German model
X : General model	B : British model
M : South African model	I : Indonesian model
H : North European model	

ELECTRICAL PARTS

Ref No.	Part No	Description	部品名	Remarks	ランク
	NX802970	Circuit Board, MIXER	ミキサーシート	U, C E	
	NX802990	Circuit Board, Cassette	カセットシート		
	NX803010	Circuit Board, PU	電源シート		
	NX803020	Circuit Board, PU	電源シート		
	NX802980	Circuit Board, JACK	JACKシート		
	NX803040	Circuit Board, Motor	モーターシート	U, C E	
	NX803030	Circuit Board, Monitor	モニターシート		
	NX803060	Circuit Board, Power SW	パワースイッチシート		
	NX803070	Circuit Board, Power SW	パワースイッチシート		
	NX803080	Circuit Board, Punch I/O	パンチン/アウトシート		
	LX803090	Circuit Board, MIDI	MIDIシート		
	NX802970	Circuit Board, MIXER	ミキサーシート		
	IX801210	IC	NJM2041S IC		03
	IX801670	IC	AN6555 IC		03
	XX808740	IC	M5223L IC		04
	IX801500	IC	LB1408 IC		04
	IG053800	IC	M5232L IC		04
	XX809540	Diode	MA4091LTA ダイオード		01
	XX808790	Diode	SVD1SS119-04T ダイオード		01
	XX808830	LED RED	SVDGL-102R83 LED		04
	XX808840	LED ORANGE	SVDGL-105H83 LED		06
	XX808820	LED RED	LN265RPH LED		03
	HX801070	Variable Resistor	PSVR251815A15 可変抵抗器	TRIM	
	XX808920	Variable Resistor C10K	EWAQFOX15C14 可変抵抗器	CH. FADER	
	XX808930	Variable Resistor C100K	PSVS251815C15 可変抵抗器	BASS TRE	05
	XX808890	Variable Resistor B10K	PSVR121N015B14 可変抵抗器	PAN POT	04
	XX808940	Variable Resistor A10K	PSVS251815A14 可変抵抗器	AUX SEND	05
	HX801080	Variable Resistor	PSVR252815A14 可変抵抗器	AUX RTN	
	XX809100	Variable Resistor	EWAQAQX15C14 可変抵抗器	MASTER FADER	06
	XX808970	Variable Resistor A100KX2	PSVR122J015A15 可変抵抗器	PHONES LEVEL	05
	XX809020	Switch	PSSSK8 スイッチ	METER SELECTOR	05
	KX800470	Switch	PSSSK12 スイッチ	TAPE SYNC	
	KX800480	Switch	PSSSK13 スイッチ	ZERO RETURN, DBX	
	XX809030	Switch	PSSSK7 スイッチ		04
	XX809050	Switch	PSSSK9 スイッチ	REC SELECTOR	04
	NX802990	Circuit Board, Cassette	カセットシート		
	IG146100	IC	AN6291 IC		07
	IX801440	IC	LC4066BS IC		03
	IX801670	IC	AN6555 IC		03
	IG001240	IC	M4011BP IC		03
	XX808720	IC	SVINJM2043SE IC		06
	XA508001	IC	μ PC1290C IC		04
	IX800060	Transistor	2SC2878B-T トランジスタ		03
	IX801680	Transistor	2SC3311 S-T トランジスタ		03
	IX802010	Transistor	UN4114 R-T トランジスタ		
		Transistor	2SD1915--TA トランジスタ		
	IX802020	Transistor	UN4211 R-T トランジスタ		
	ID130200	Transistor	2SD1302 R,S トランジスタ		03
	XX808800	Transistor	2SC1383 R トランジスタ		03
	IX553400	Transistor	UN4214 トランジスタ		02
	IX802000	FET	2SK655 FET		
	XX808790	Diode	SVD1SS119-04T ダイオード		01
	XX808790	Diode	SVD1SS119-04 ダイオード		01
	IX801150	Diode	MA150 ダイオード		01
	HX801060	Resistor Array 100KΩ X6	EXB-F8E104J 抵抗アレイ		
	XX808850	Potentiometer	EVND4AA00B23 半固定抵抗		01
	XX808880	Potentiometer	EVND4AA00B53 半固定抵抗		05
	XX808860	Potentiometer	EVND4AA00B14 半固定抵抗		01
	XX808870	Potentiometer	EVND4AA00B15 半固定抵抗		01
		Potentiometer	EVNB1AA00B54 半固定抵抗		
	LX800630	Jack	PSJJK31J ジャック		02
	LX800820	Jack	PSJJK33A ジャック		
	NX803010	Circuit Board, PU	電源シート	U, C E	
	NX803020	Circuit Board, PU	電源シート		
	IG075400	IC	AN78M10F IC		03
	XB930001	IC	AN79M10F IC		03
	XA507001	IC	AN78N05 IC		03
	IX801680	Transistor	2SC3311 S-T トランジスタ		03
	IA101531	Transistor	2SA1015 Y, GR トランジスタ		03
	IX606390	Transistor	2SD1265 O, P トランジスタ		03
	IX801170	Diode	SVD1B4B42 ダイオード		02
	XX808790	Diode	SVD1SS119-04T ダイオード		01
	IX801530	Diode	MA29WA-T ダイオード		01
	IX801130	Zener Diode	MA4120M ツェナーダイオード		01
	NX802980	Circuit Board, JACK	JACKシート		

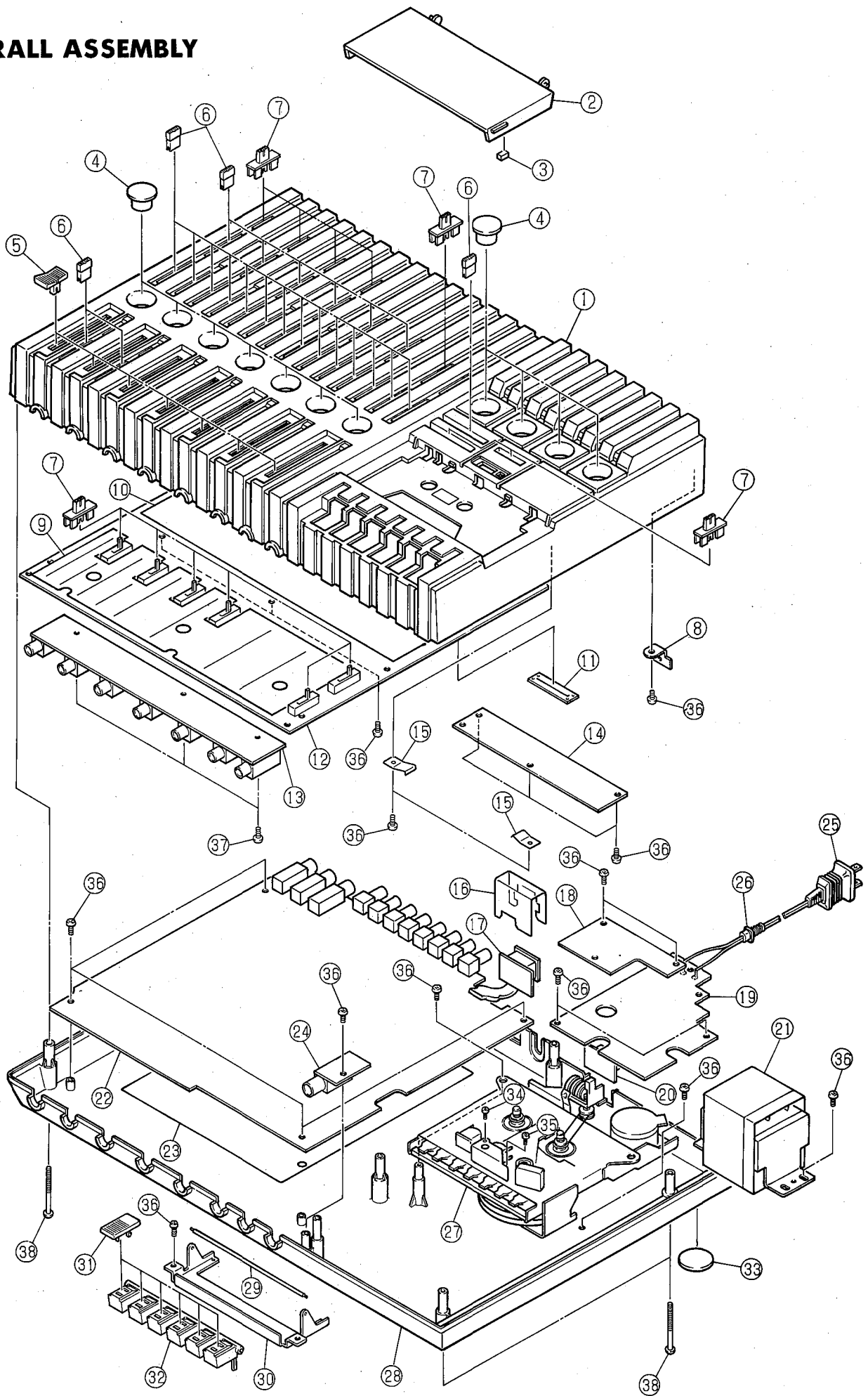
*: New Parts (新規部品)

ランク: Japan only

* : New Parts (新規部品)

3

OVERALL ASSEMBLY



MT2X

[illegible]

* : New Parts (新規部品)

ランク：Japan only

MIDI CONVERTER

YMC2

■ CONTENTS

SPECIFICATIONS	1
CIRCUIT BOARDS	2
PARTS LIST	3

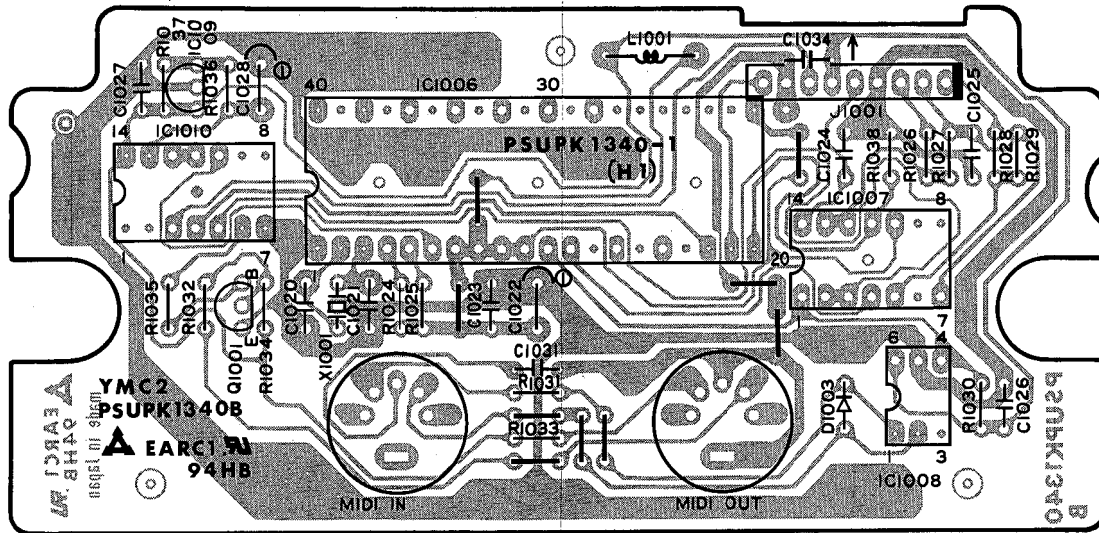
■ SPECIFICATIONS

MIDI Receive Data	TIMING CLOCK, START, CONTINUE, STOP
FSK Signal Output	fH = 1.953 kHz, fL = 0.977 kHz
MIDI Transmit Data	TIMING CLOCK, START, STOP
Tempo Range	♩ = 25 ~ ♩ = 300
Connection Terminals	MIDI IN, MIDI OUT, 10-pin connector
Dimensions (W × H × D)*1	152 × 73 × 50 mm (6'' × 2-7/8'' × 2'')
Weight	330 grams (0.7 lb.)

*1 Including 5 mm locking screws.

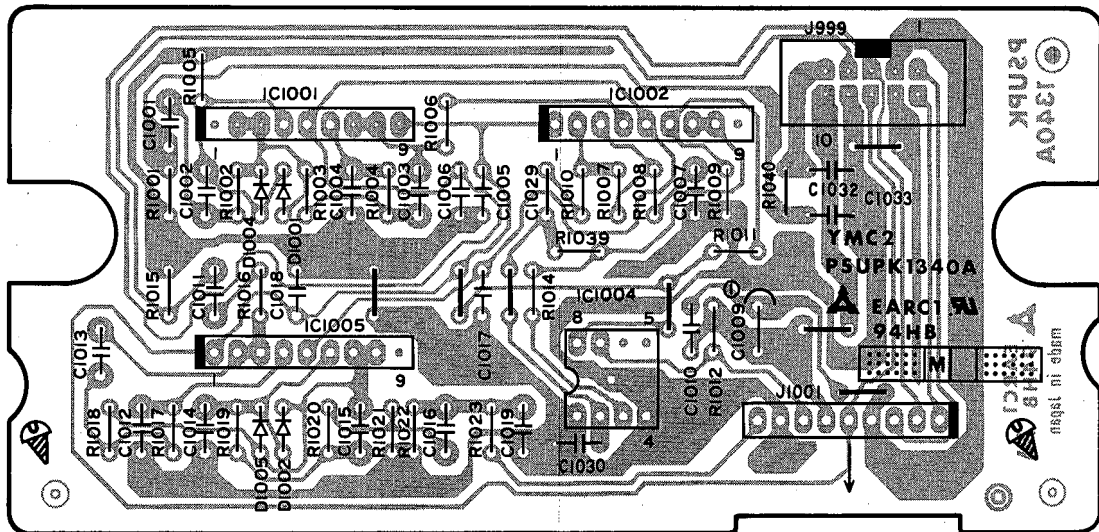
■CIRCUIT BOARDS

●YMC2-MIDI Circuit Board



●YMC2-DIN Circuit Board

< Components side >



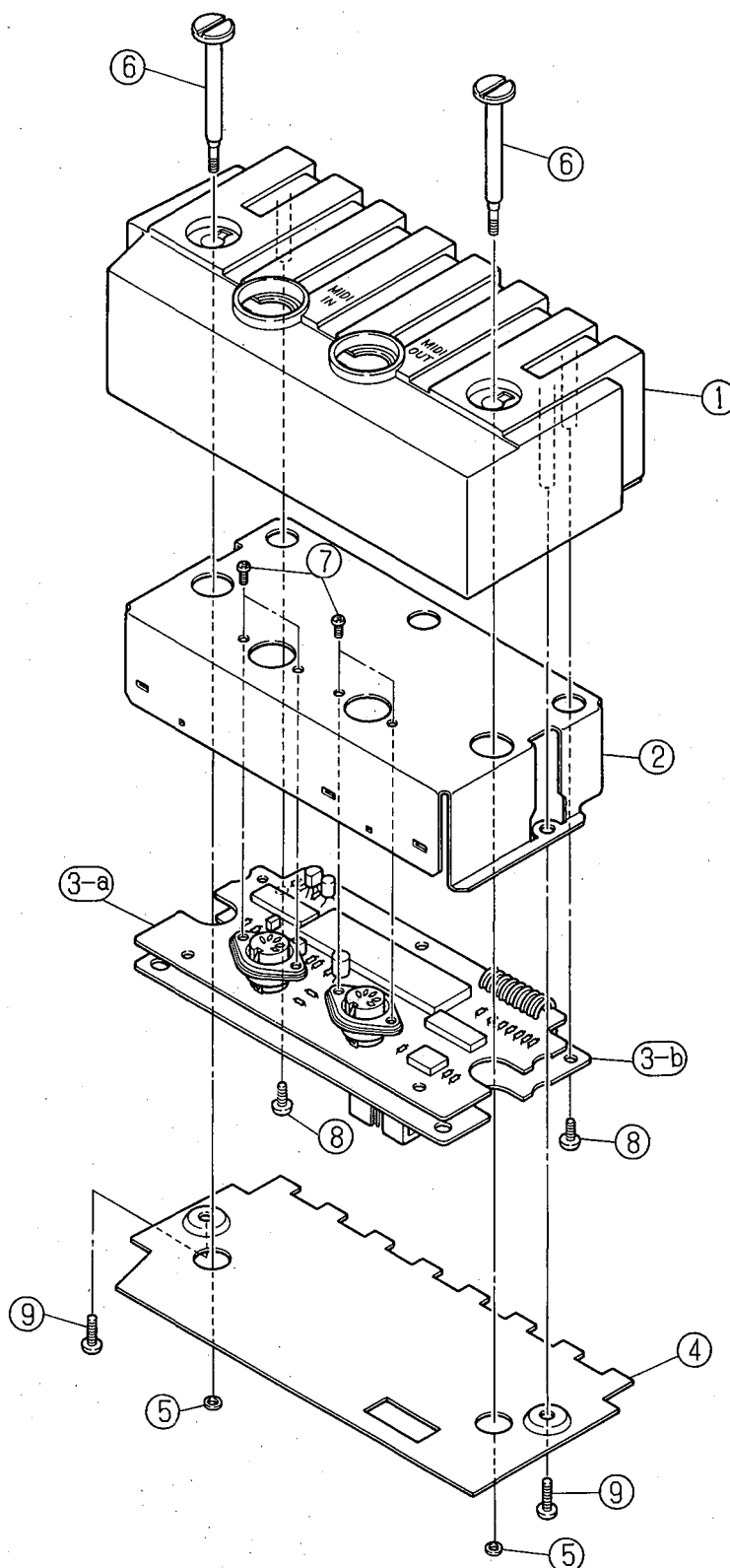
< Components side >

Notes)

1. IC
 IC1001, 1002, 1005: AN6555 (IX801670)
 1004: NJM311D (IG123000)
 1006: HD6301V1G13P (IG126230)
 1007: LC4066B (IG089200)
 1009: PST520C (IG116200)
 1010: M74HC14P (IR001490)
2. Photo Coupler
 IC1008: PC900
3. Transistor
 Q 1001: 2SC3311 S-T
4. Diode
 D 1001~1005: SVD1SS119-04T
5. Coil
 L 1001: ELEBD100KA
6. Ceramic Resonator
 X 1001: EFO-FC2004A4 2MHz

YMC2 PARTS LIST

OVERALL ASSEMBLY



OVERALL ASSEMBLY

Ref No.	Part No	Description	部品名	Remarks	ランク
1	AX800450	Cabinet	PSKMK260	キャビネット	
2	AX800470	Chassis	PSUHK18	シャーシ	
3	NX803110	Circuit Board,YMC2		YMC2シート	
3-a		Circuit Board,MIDI		YMC2-MIDIシート	
3-b		Circuit Board,DIN		YMC2-DINシート	
4	AX800460	Bottom Board	PSKUK200	底板	
5	EX800770	Nylon Washer	SNWK7	ナイロンワッシャー	01
6	EX800800	Screw	PSHDK7	飾りビス	
7	EA026040	Pan Head Screw	XSN26+4FZ	ナベ小ネジ	26X4 ZMC2Y 01
8	EI030086	Bind Tapping Screw	XTB3+8G	ハイトタッピンネジ	3.0X8 ZMC2Y 01
9	EI330106	Bind Tapping Screw	XTB3+10GFZ	ハイトタッピンネジ	3.0X10 FCM3BL 01

* : New Parts (新規部品)

ランク : Japan only

ELECTRICAL PARTS

Ref No.	Part No	Description	部品名	Remarks	ランク
	NX803110	Circuit Board,YMC2		YMC2シート	
	IX801670	IC	AN6555	IC	03
	IG123000	IC	NJW311D	IC	04
	IG126230	IC	HD6301V1G13P	IC	14
	IG089200	IC	LC4066B	IC	04
	IG116200	IC	PST520C	IC	04
	IR001490	IC	M74HC14P	IC	04
	IK000420	Photo Coupler	PC900	フォトカプラー	05
	IX801680	Transistor	2SC3311 S-T	トランジスタ	03
	XX808790	Diode	SVD1SS119-04T	ダイオード	01
		Coil	ELEBD100KA	コイル	
	QX800140	Ceramic Resonator	EFO-FC2004A4	セラロック	2MHz
	LX800830	DIN Jack	PSJSK6501	DINジャック	
	LX800840	Connector	PSJTK31005BM	コネクター	10P

* : New Parts (新規部品)

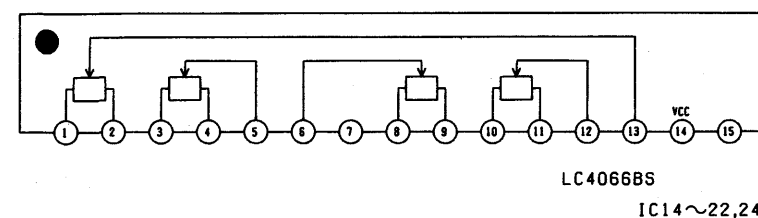
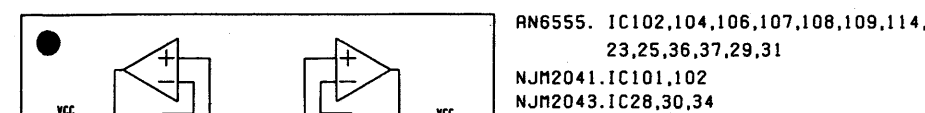
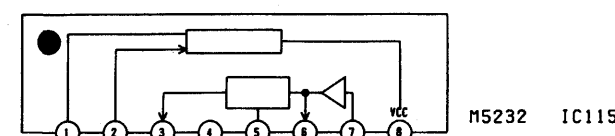
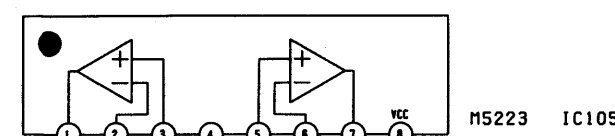
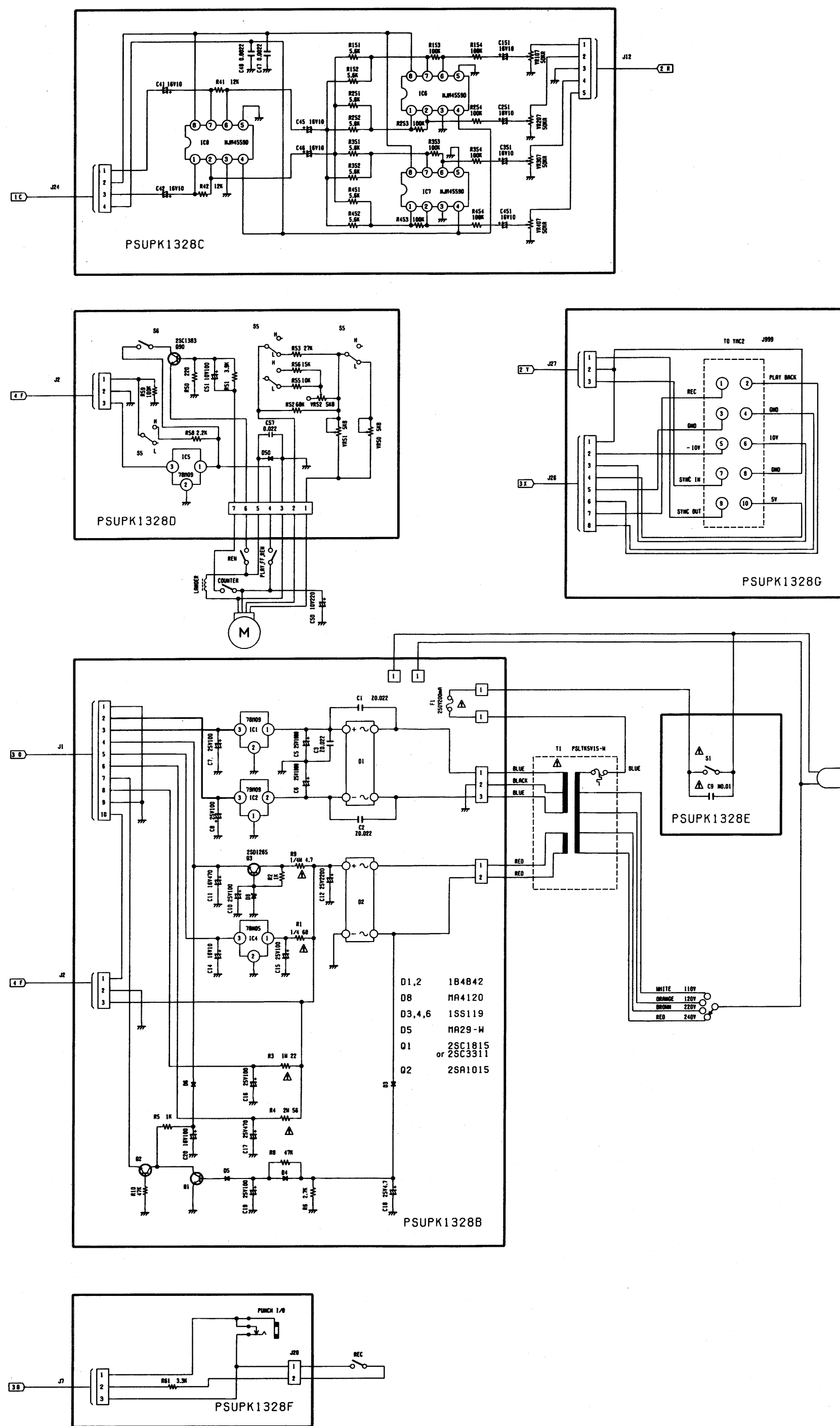
ランク : Japan only



MT2X OVERALL CIRCUIT DIAGRAM

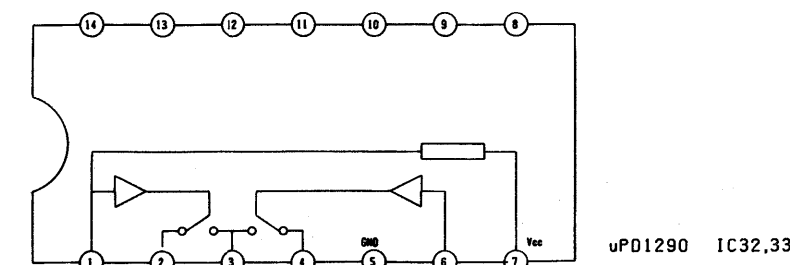
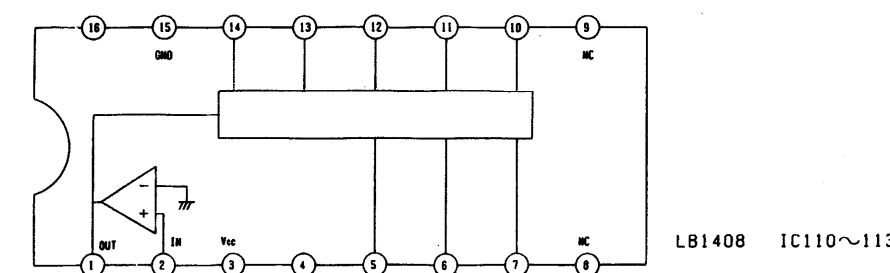
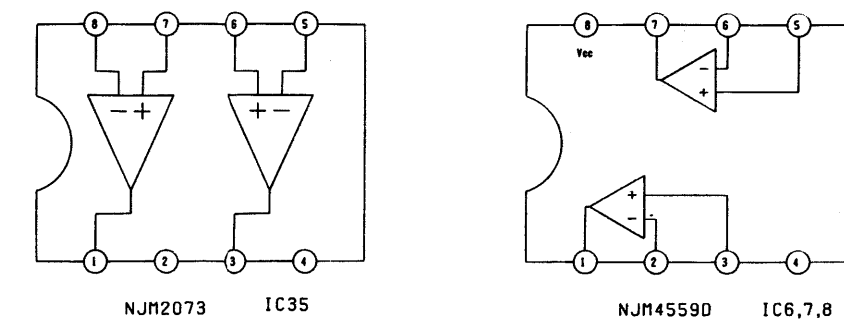
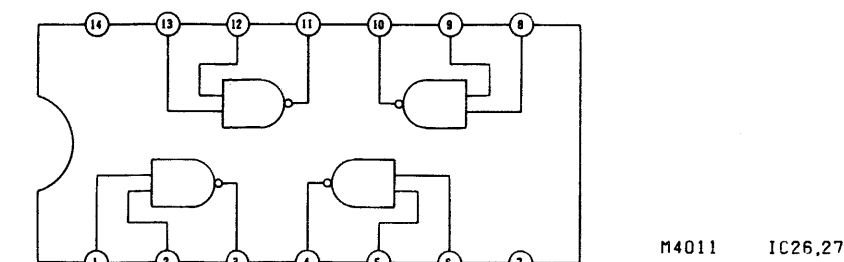
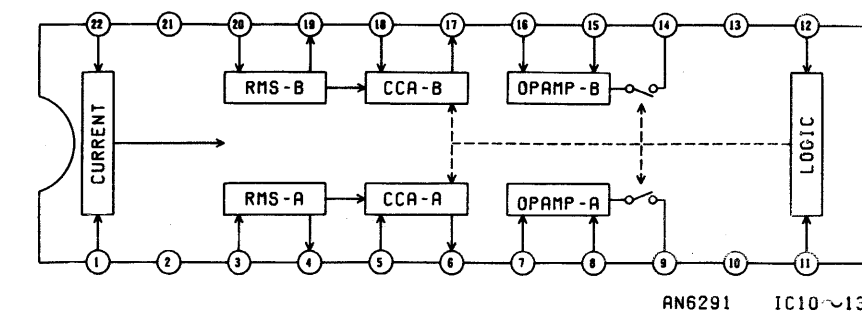
European model

MT2X



- NOTE: 1. S1 : Power switch (ON/OFF)
2. S5 : Tape speed select switch (9.5/4.8)
3. S6 : Zero stop switch (ON/OFF)
4. S10 : Meter select switch (STEREO/ 4 TRK)
5. S11 : Tape synchro select switch (REC/OFF/P.B.)
6. S12 : dbx switch (ON/OFF)
7. S13 : Phones select switch (MONITOR/MIX/STEREO)
8. S101,201 : Input selector switch (MIC.LINE/OFF/TAPE)
9. S301,401 : Input selector switch (LINE/OFF/TAPE)
10. S102,202 : 1ch 4ch Record select switch (1 4/OFF/L.R)
S302,402

• Important safety notice :
Components identified by Δ mark have special important for safety. When replacing any of these components use only manufacture's specified parts.

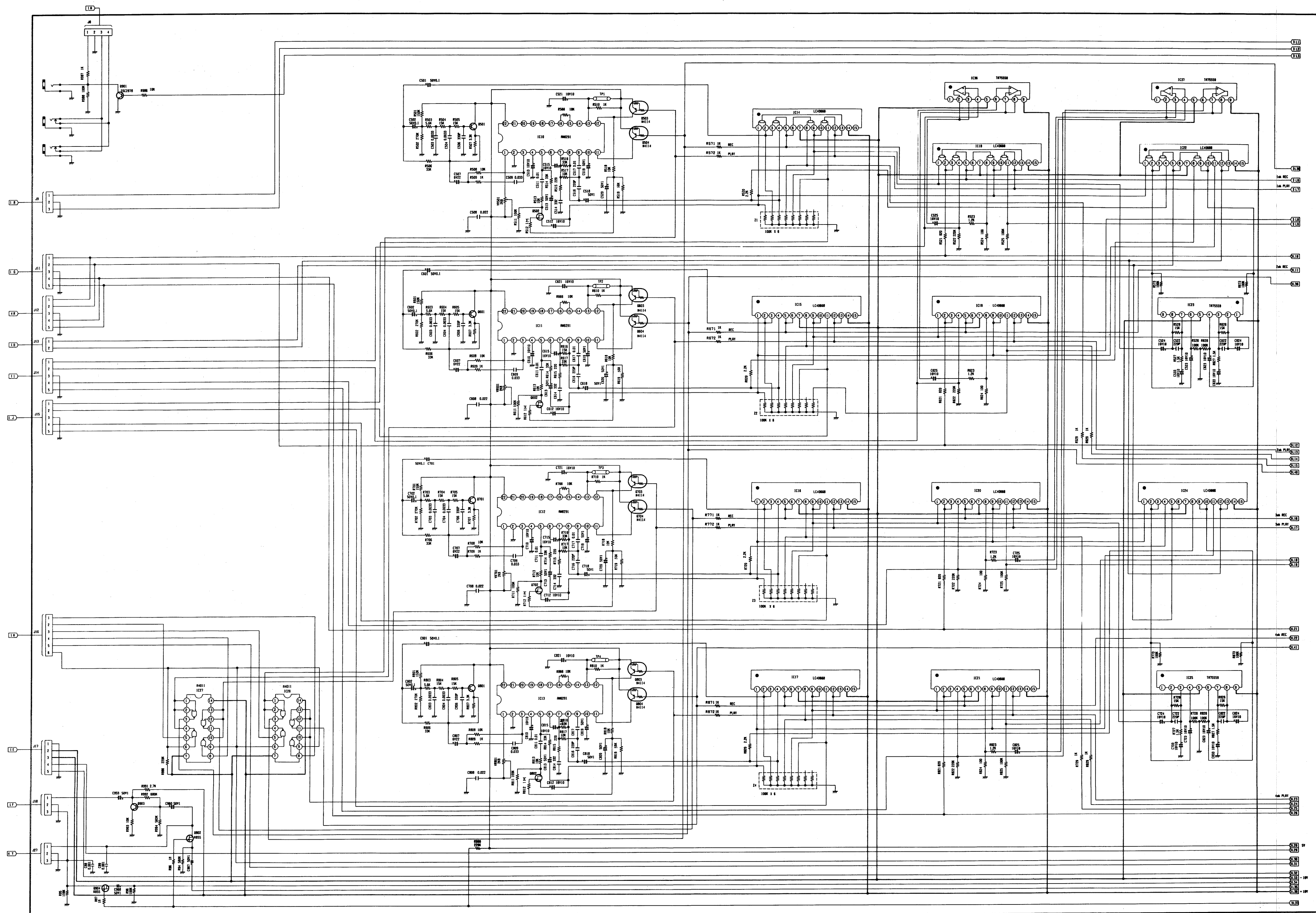


MT2X

MT2X

MT2X OVERALL CIRCUIT DIAGRAM

MT2X

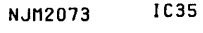
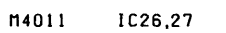
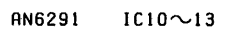
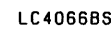
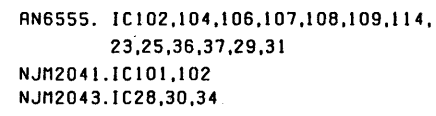
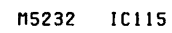
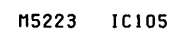
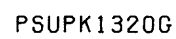


MT2X

MT2X

U.S. and Canadian model

MT2X



AC 100V 50/60Hz (J)
AC120V 60Hz (U,C)

- | | | | |
|-----|----------------------|---|--|
| 1. | S1 | : | Power switch (ON/OFF) |
| 2. | S5 | : | Tape speed select switch (9.5/4.8) |
| 3. | S6 | : | Zero stop switch (ON/OFF) |
| 4. | S10 | : | Meter select switch (STEREO/ 4 TRK) |
| 5. | S11 | : | Tape syncro select switch (REC/OFF/P.B.) |
| 6. | S12 | : | dbx switch (ON/OFF) |
| 7. | S13 | : | Phones select switch (MONITOR/MIX/STEREO) |
| 8. | S101,201 | : | Input selector switch (MIC.LINE/OFF/TAPE) |
| 9. | S301,401 | : | Input selector switch (LINE/OFF/TAPE) |
| 10. | S102,202
S302,402 | : | 1ch 4ch Record select switch (1 4/OFF/L.R) |

- Important safety notice :
Components identified by mark have special characteristics important for safety. When replacing any of these components use only manufacture's specified parts.

D1,2	1B4B42
D8	MA4120
D3,4,6	1SS119
D5	MA29-W
Q1	2SC1815 or 2SC3311
Q2	2SA1015

T1 PSLTK5V12 (J)
 " 13 (U)
 " 14 (C)

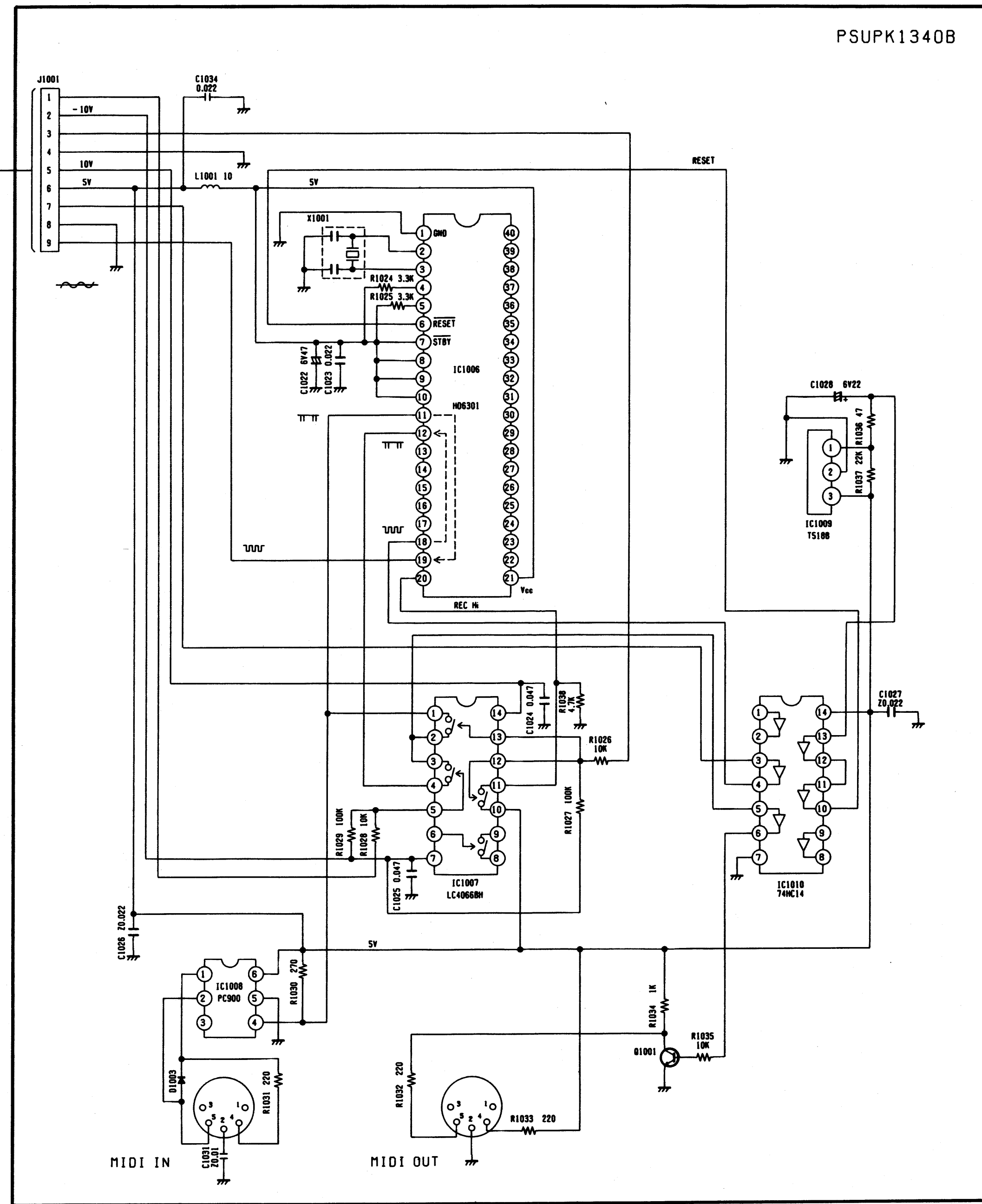
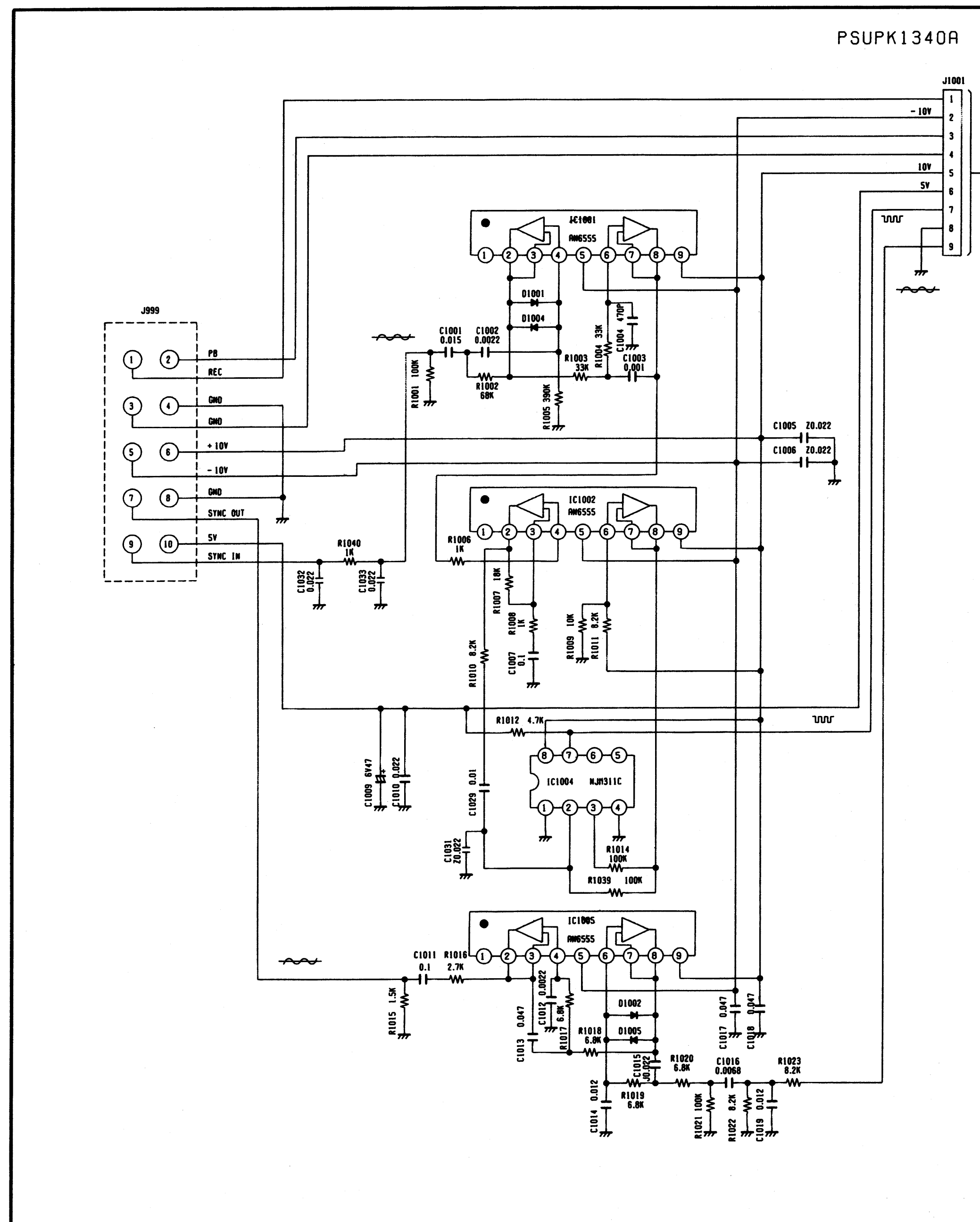
MT2X



D108,110,208,210	
308,408,902,904	LN265RPH
D101,102,201,202	
301,302,401,402	SV0GL-102R03
D103~107,203~207	
303~307,403~407	SV0GL-105H03
D109,111,209,211	
309,311,409,411	
903,905,906,910,911	1SS119-04

YMC2 OVERALL CIRCUIT DIAGRAM

YMC2(MT2X)



YMC2(MT2X)

YMC2(MT2X)