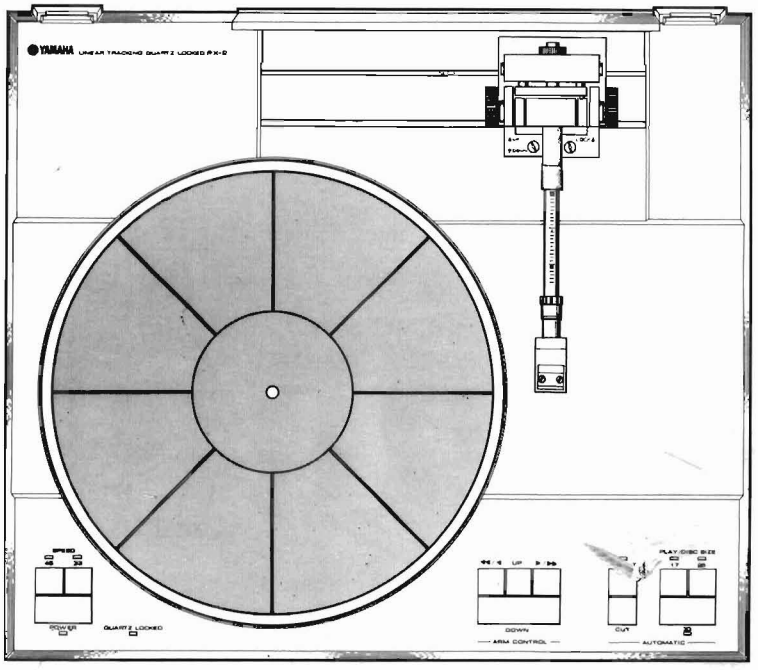
PX-2

SERVICE MANUAL



■CONTENTS

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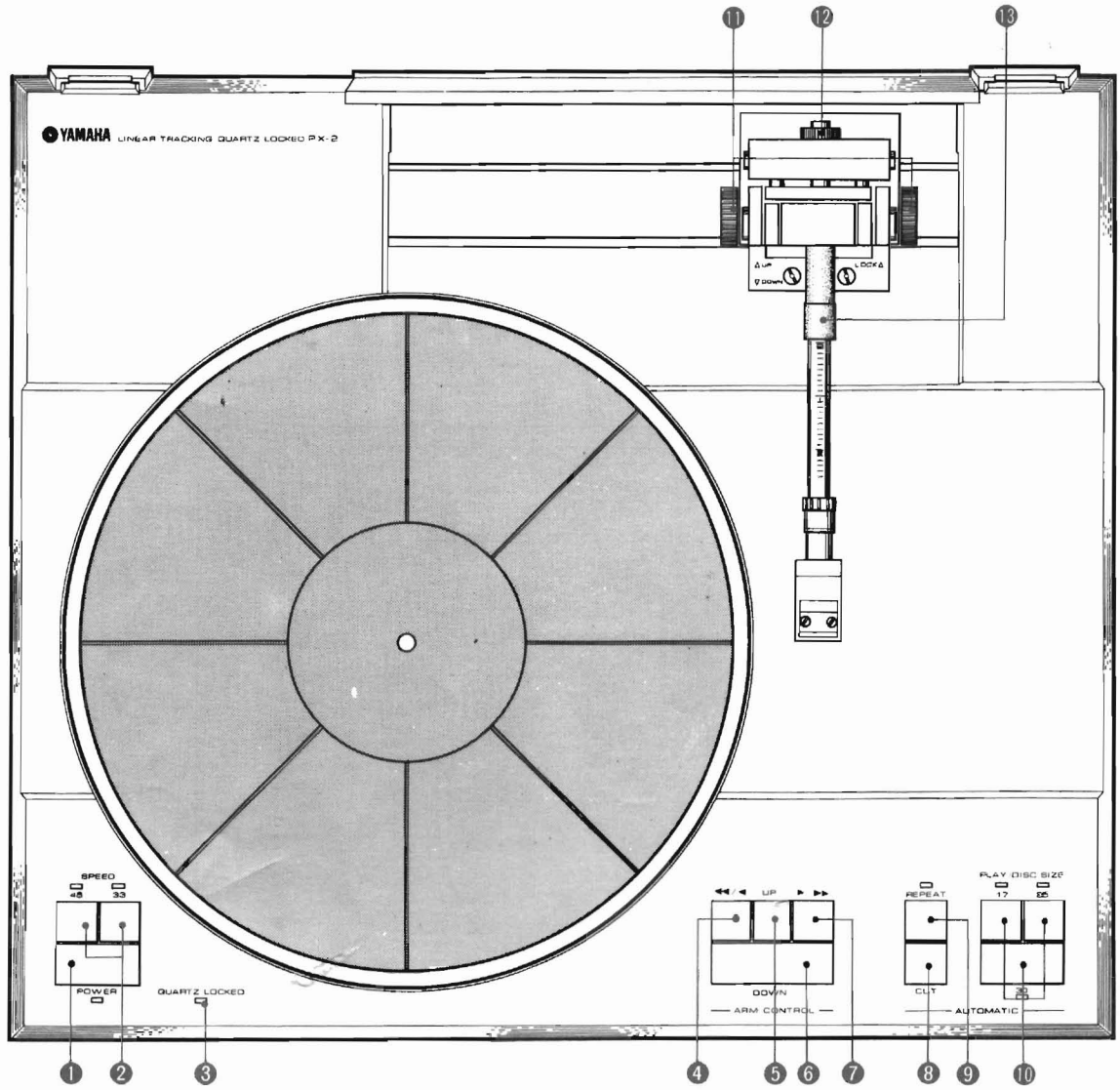
YAMAHA

'80.5 2.4K K.T Printed in Japan

■PANEL OPERATION



❶ POWER (Power Switch)
❷ SPEED (Speed Changing Switch)
❸ QUARTZ LOCKED (Quartz Locked Indicator)

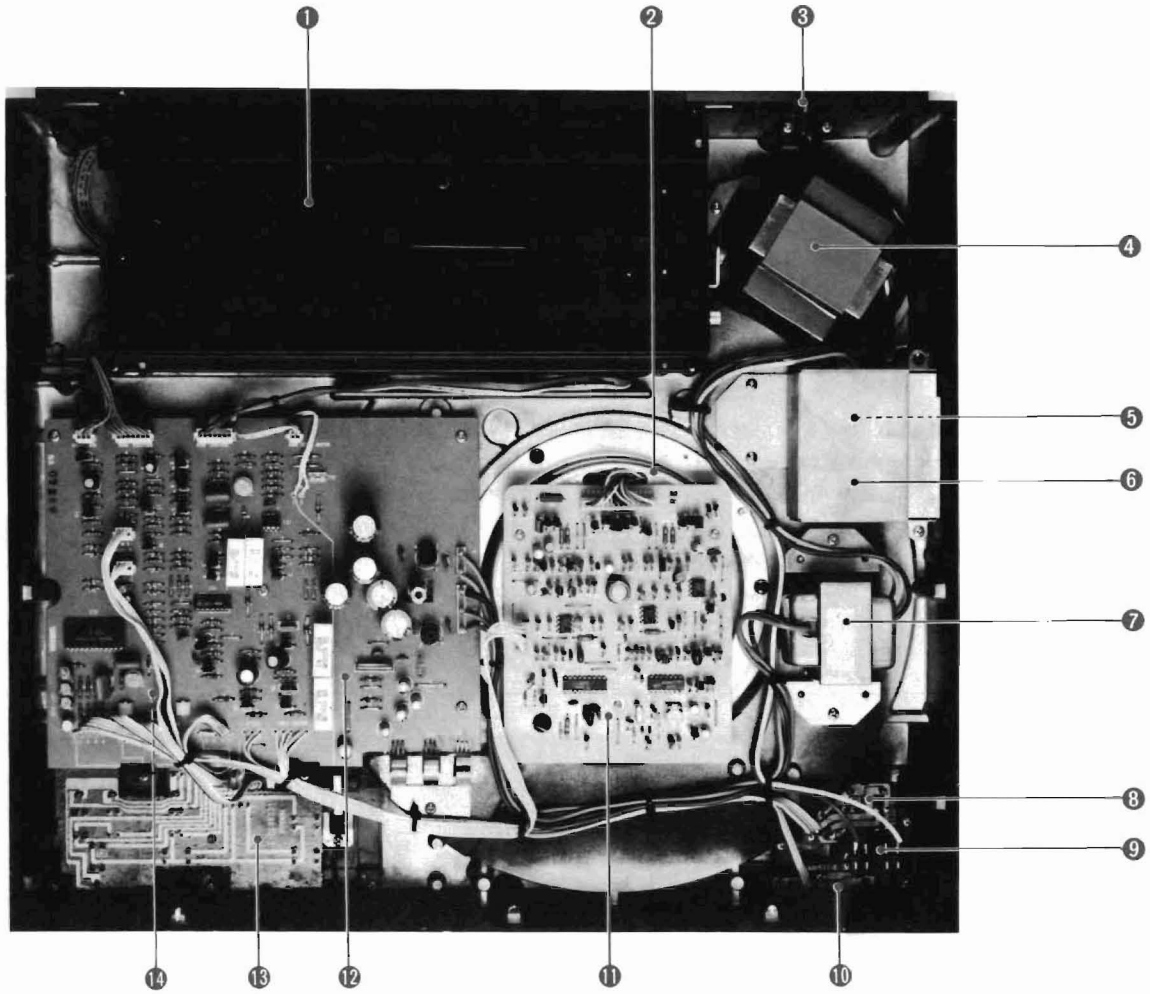
ARM CONTROL (MANUAL)

❹ ◀◀ / ◀ (Leftward Feed Switch for Tonearm)
❺ UP (Cueing-UP Switch)
❻ DOWN (Cueing Down Switch)
❼ ▶ / ▶▶ (Rightward Feed Switch for Tonearm)

AUTOMATIC PLAY

❽ CUT (Play Discontinuing Switch)
❾ REPEAT (Repeat Switch)
❿ PLAY/DISC SIZE (Disc Size Switch)
⓫ Arm Height Adjusting Knob
⓬ Main Weight & Balance Control Knob
⓭ Tracking Force Adjusting Weight

■INTERNAL VIEW



1. Tonearm Unit (SS06019)
2. Motor (JC00048)
3. Power Cord
4. Power Transformer-L
   - U.S. & Canadian Models: GA6272
   - N.European Model: GA6273
   - Australian & British Models: GA6284
   - General Model: GA6274
5. Fuse C. Board
6. Fuse Cover
7. Power Transformer-S
   - U.S. & Canadian Models: GA6276
   - N.European Model: GA6277
   - Australian & British Models: GA6279
   - General Model: GA6278
8. r.p.m. SW C. Board
9. Power Switch
10. Power Indicator C. Board
11. Motor Servo C. Board
12. Control C. Board
13. Tonearm Control SW C. Board
14. Tonearm Speed VR C. Board

■DISASSEMBLY PROCEDURE

Before disassembly, remove the turntable and lift up the rear side of the unit and turn the unit over. If the unit is lifted from its side, the tonearm may slide causing possible damage to the unit. Place the unit in such a way that it is level, using magazines or similar materials to level and stabilize the unit, thereby preventing possible damage to the tonearm, center spindle and operation switches.

Disassembly of Main Unit

1. Removal of bottom cover

Turn over the unit, remove the bottom cover by loosening screws ① to ③ shown in Photo1.

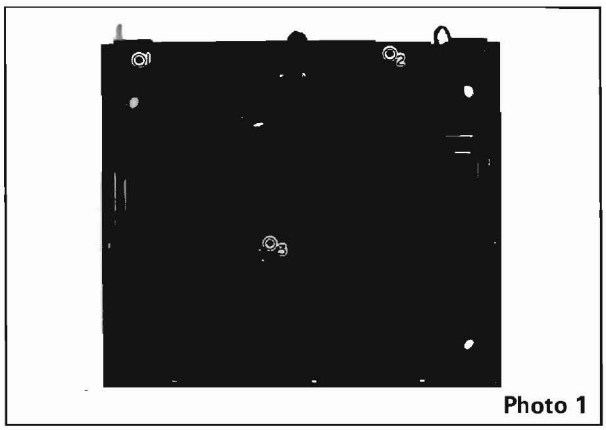


Photo 1

2. Removal of tonearm unit

Remove the rear cover by loosening screws ① and ② shown in Photo 2. And then, after disconnecting the connectors, loosen screws ③ to ⑥ shown in Photo 2, lift up and remove the tonearm unit. Remember, the headshell must be removed prior to removal of the tonearm unit.

3. Removal of control circuit board

Disconnect the connectors and wires, loosen screws ⑦ to ⑪ shown in Photo 2, gently work the control circuit board free and remove it from the unit.

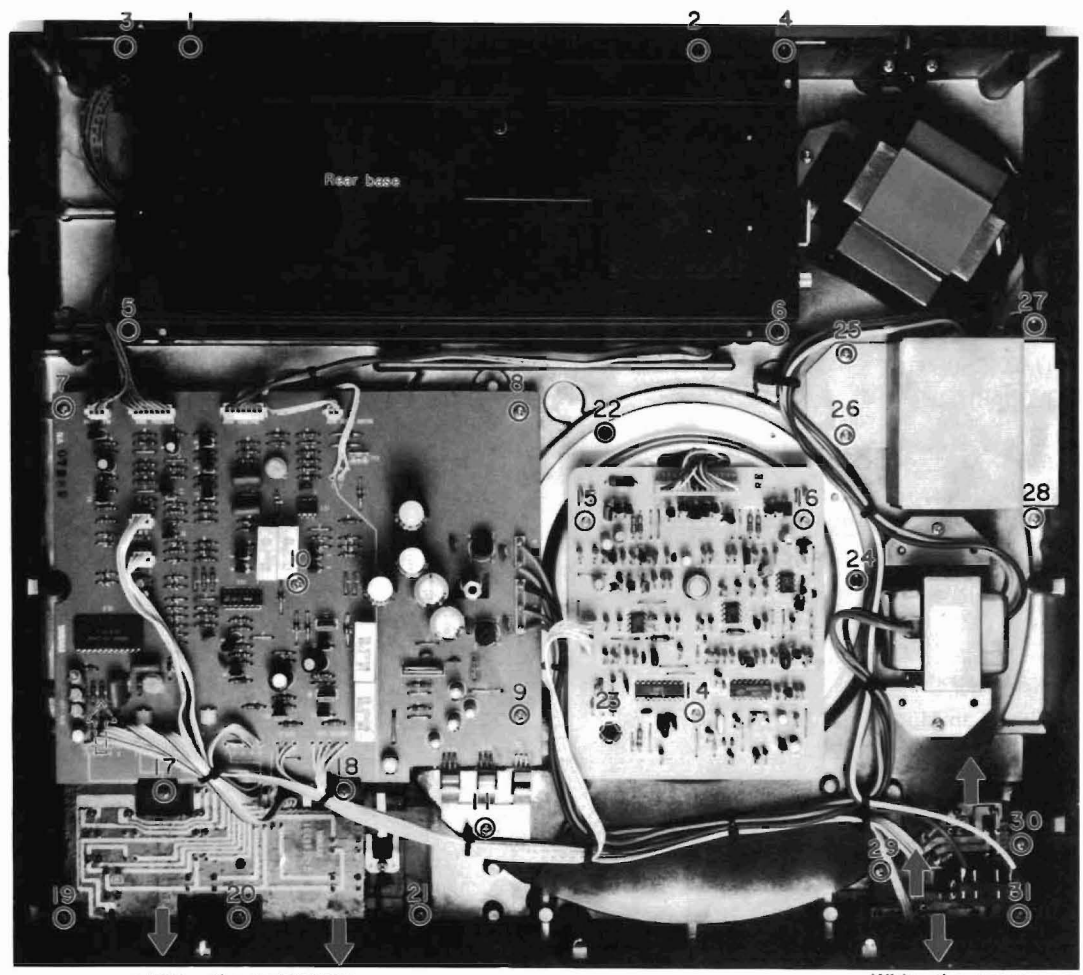


Photo 2

4. **Removal of motor servo circuit board**
   Disconnect the connectors, loosen screws ⑭ to ⑯ shown in Photo 2.

5. **Removal of tonearm SW (switch) base and control SW base**
   Remove the control circuit board (refer to step 3). And then loosen screws ⑰ to ㉑ shown in Photo 2 to remove both bases. The tonearm control SW circuit board can be removed by widening the stopper gap.

6. **Removal of phonomotor**
   Disconnect the control circuit board connectors, and loosen screws ㉒ to ㉔ shown in Photo 2 to remove the phonomotor.

7. **Removal of fuse circuit board**
   Remove the fuse cover by loosening screws ㉕ to ㉘ shown in Photo 2. And then, disconnect the wiring and loosen screws ① to ③ shown in Photo 3. When assembling the board, wind the wire around the terminal post, and solder it to insure a good connection.

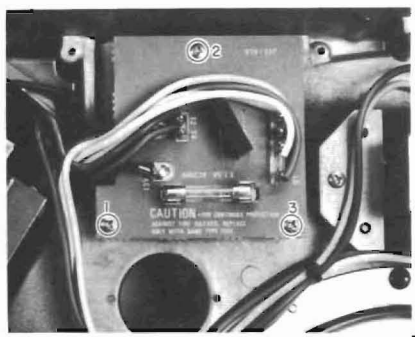


Photo 3

8. **Removal of power switch base**
   Loosen screws ㉙ to ㉛ shown in Photo 2 and remove the power switch base.

Disassembly of Tonearm Assembly

Before disassembling, remove the tonearm unit (Refer to step 2).

1. **Removal of tonearm**
   Loosen screws ① and ② shown in Photo 4 and remove the pulley bearing support in order to loosen the flat belt. And then, disconnect the tension two springs and the connectors in Photo 4. Remove the tonearm from the rear base by sliding it in the direction of the arrow (➡).

2. **Removal of drive motor**
   Remove the square belt, loosen screws ③ and ④ shown in Photo 4 to remove the motor cover and the drive motor.

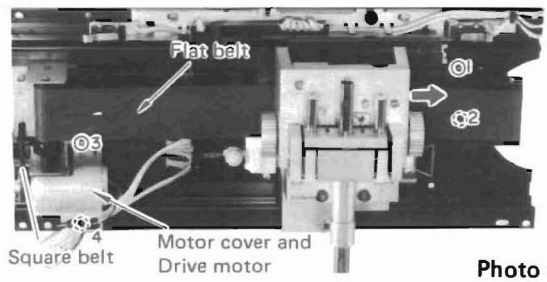


Photo 4

■ADJUSTMENT

Before adjustment, check the following items.

1. Place the PX-2 at a level position. Adjustment of the unit may be affected if it is in an in inclined or tilted position.
2. Temperature and humidity during normal adjustment conditions should be 18 to 22°C and 60 to 70%, respectively. In the event that no problem exists, adjustments can still be made even though the temperature ranges from 5 to 35°C or the humidity is less than 85%.
3. Adjustment of the phonomotor should be made with the turntable on the unit. (Do not keep the phonomotor rotating for a long period of time without the turntable on the unit.)

Specifications

1. Wow and flutter:
   Less than 0.05% WRMS.
2. Turntable acceleration time:
   0 to 33-1/3r.p.m., within 2 seconds (at rated voltage).
3. Turntable vibrations should be less than 0.1mm horizontally, and less than 0.2mm vertically (when an outer dimension of the turntable is measured).
4. A standard cartridge with a tracking force of 1.5g (Shure 75EMII, EDII) is used.

- Confirm that each switch operation operates in accordance with the owners manual and other related material.

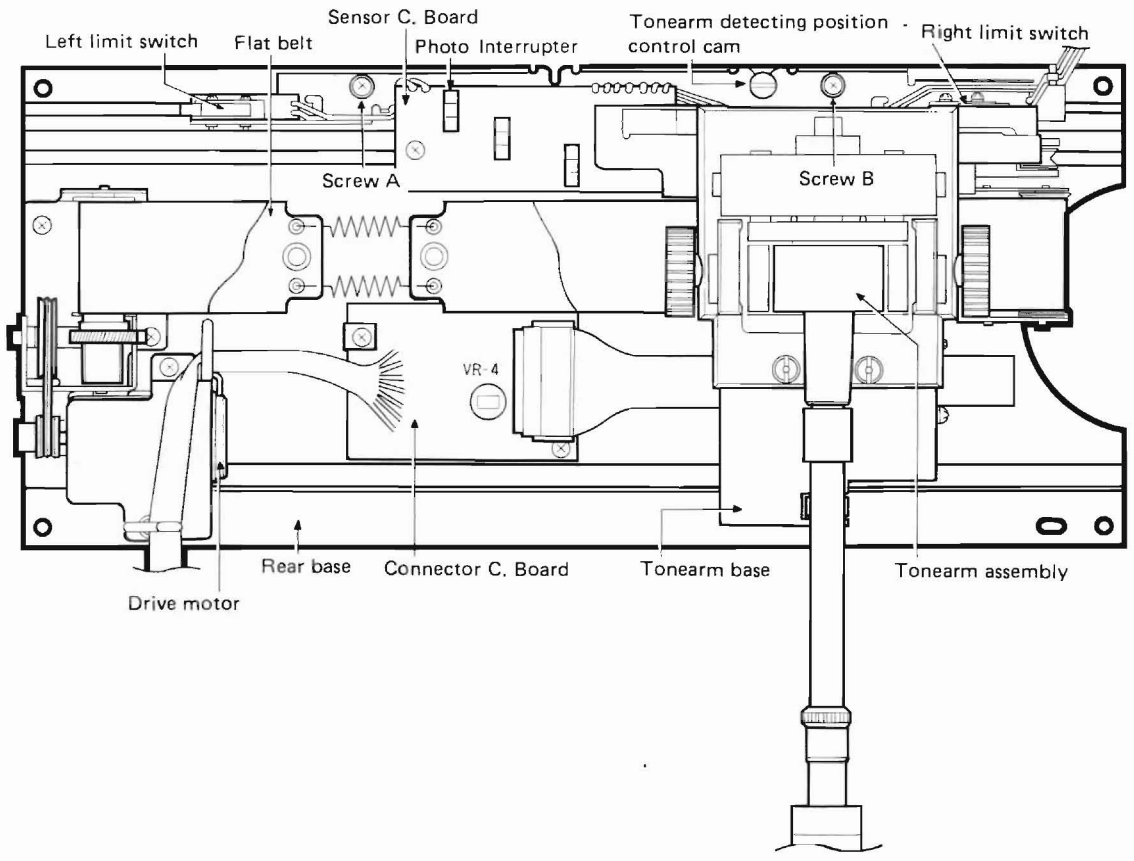


Fig. 1

Adjustment of phonomotor synchronization

1. Adjustment of quartz synchronization

1) As in Fig. 2, connect the buffer amplifier to the motor servo circuit board.
2) Set the speed selector switch at 45 r.p.m.
3) Connect an oscilloscope set at 10 kohms resistance level, to both terminals of the source in the buffer amplifier. Adjust the VR 1 so that "t" of the saw tooth wave is 14±1ms as in Fig. 2.

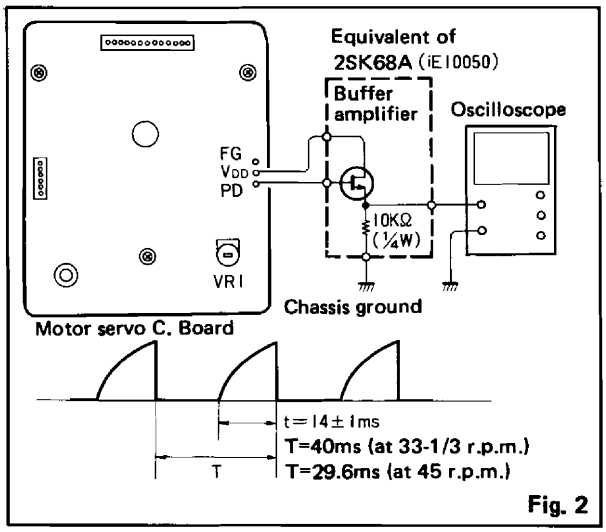


Fig. 2

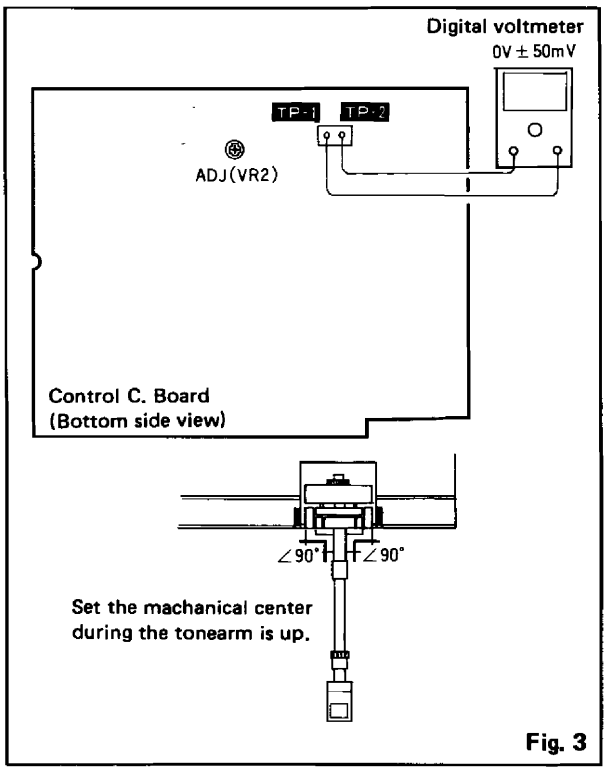


Fig. 3

Adjustment of control circuit board and tonearm unit

- For adjustment of the control circuit board and the tonearm unit section, remove the bottom cover and rear cover of the PX-2.

Tonearm angle adjustment

The following adjustments should be made when the tonearm angle takes a diagonal attitude or it sways.

1. Adjustment when the tonearm is in the raised position

1) As in Fig. 3, set the tonearm mechanically at the center when it is in the ratised position, turn the power switch to "ON".
2) Connect a digital voltmeter or a similar test meter to the test points TP 1 and TP 2 in the control circuit board. And adjust the volume of VR2 (2.2 k ohms) to set at 0V±50mV (see Fig. 3).

2. Adjustment when the tonearm is the lowered position

1) As in Fig. 4, set the tonearm down to the position less than 7mm from the tonearm rest by the Down SW.
2) Connect a digital voltmeter or a similar test meter to the test points TP 1 and TP 2 in the control circuit board and adjust the volume of VR4(4.7 k ohms) to 0V±50mV.
3) Confirm that the meter keeps showing 0V±50mV by repeatedly raising and lowering the tonearm.

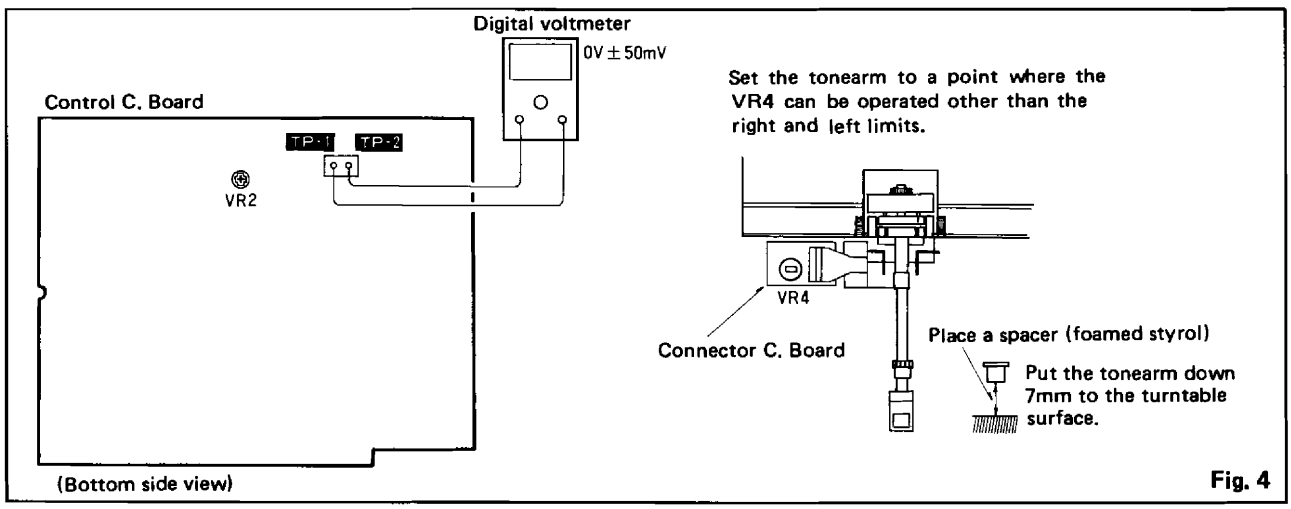


Fig. 4

Tonearm position detecting adjustment

Adjustment should be made when the arm detects incorrect positions. (After selecting the record size, whether it is 30, 25 or17cm, the tonearm comes down and may slip out of place.) Loosen screws A and B shown in Fig. 5 and turn the adjustment cam with a ⊖ screw driver if either 30, 25 or 17 position slips out of place.

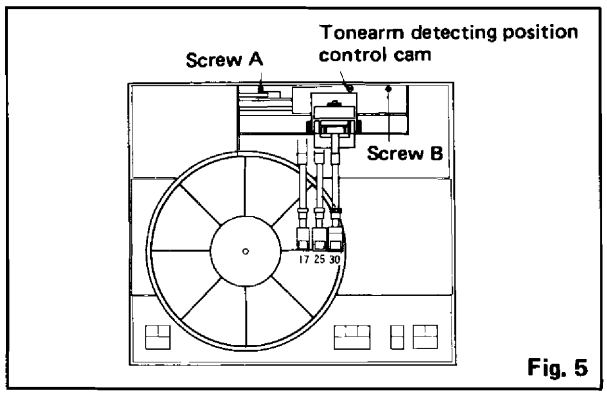


Fig. 5

Adjustment of auto-up at the tonearm lead-out groove

When the tonearm enters the lead-out groove of the record, it is detected according to the intervals (speed) of the lead-out grooves. This may cause the auto-up mechanism to not work according to the record played. In such cases, the following adjustments should be made.

1. As in Fig. 6, connect a frequency counter and an oscilloscope to the 24th pin of IC3 in order to confirm that the frequency is at 128Hz±1Hz, and that the waveform is a saw tooth wave (regard these as standard conditions).
2. When the auto-up mechanism does not work in accordance with the record played, the value can be varied to suit the record (raised the frequency when the pitch of the lead-out grooves is narrow).

Note: For tests of the auto-up mechanism use NEC's ES-1008 record. For the tonearm to be automatically raised, confirm that it works within 21 counts when the pitch is 3mm at 33-1/3 r.p.m., and does not work within 21 counts when the pitch is 1mm at 45 r.p.m.(under standard conditions).

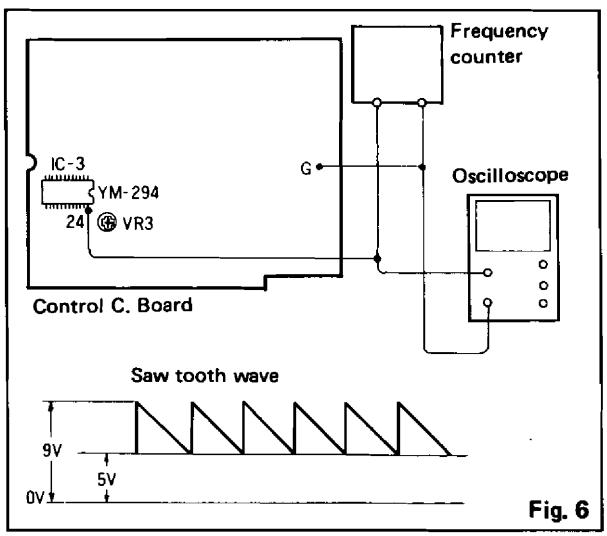


Fig. 6

Tonearm driving speed adjustment

There are cases where the tonearm speed is slow to slide to either side (movement towards the determined record size position), when the disc size select/ start switch is set to either 30, 25 or 17, or when the tonearm driving switch ◀◀/◀ or ▶/▶▶ is depressed. In these case, the following adjustments should be made.

1. As in Fig. 7, adjustments should be made along with the tonearm's movement (moving speed). However, there is a case where the tonearm does not operated due to the adjustment position when the tonearm driving switch ◀◀/◀ or ▶/▶▶ as set to LOW (the switch is being softly depressed). Check the operation when this adjustment is made.

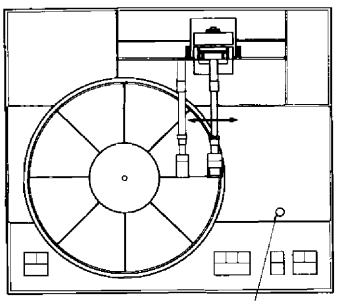


Fig. 7

2. Normal tonearm driving speed adjustment

1) Connect a digital voltmeter to the 1st pin of the connector No. 1 in the control circuit board as in Fig. 8, and adjust VR 1 so that the voltages display the values shown in Fig. 8 when the tonearm is driven to move right and left (this means FAST) by, depressing each 30, 25 or 17 of the record size selector, or the tonearm is driven to move"FAST" in both directions (the switch is being strongly depressed).
2) Confirm that the voltage displays the value at SLOW mode shown in Fig. 8 when the tonearm driving ◀◀/◀ or ▶/▶▶ switch is set to SLOW mode (the switch is being softly depressed).

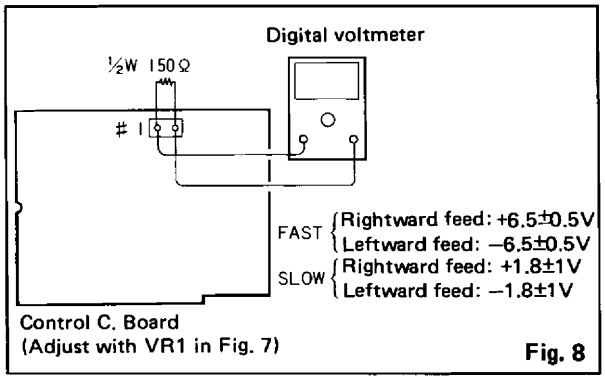
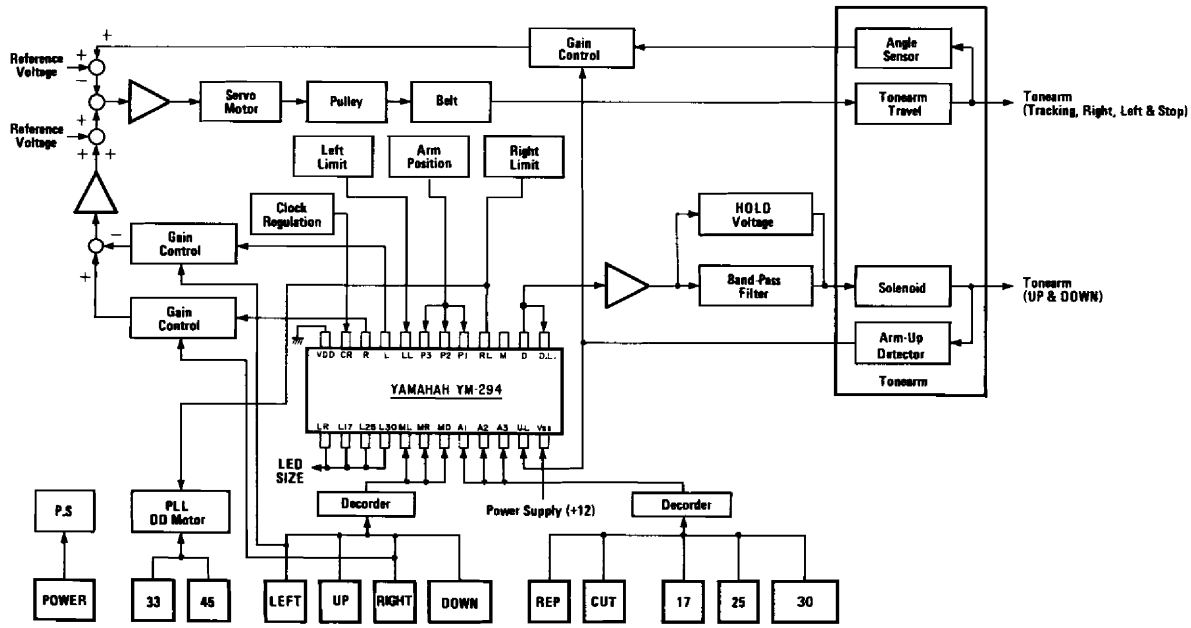


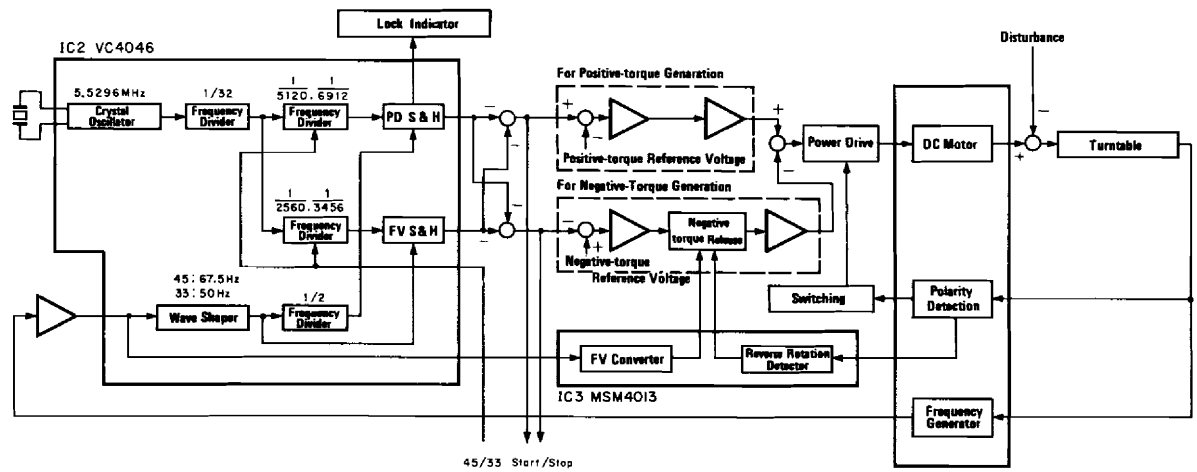
Fig. 8

■BLOCK DIAGRAM

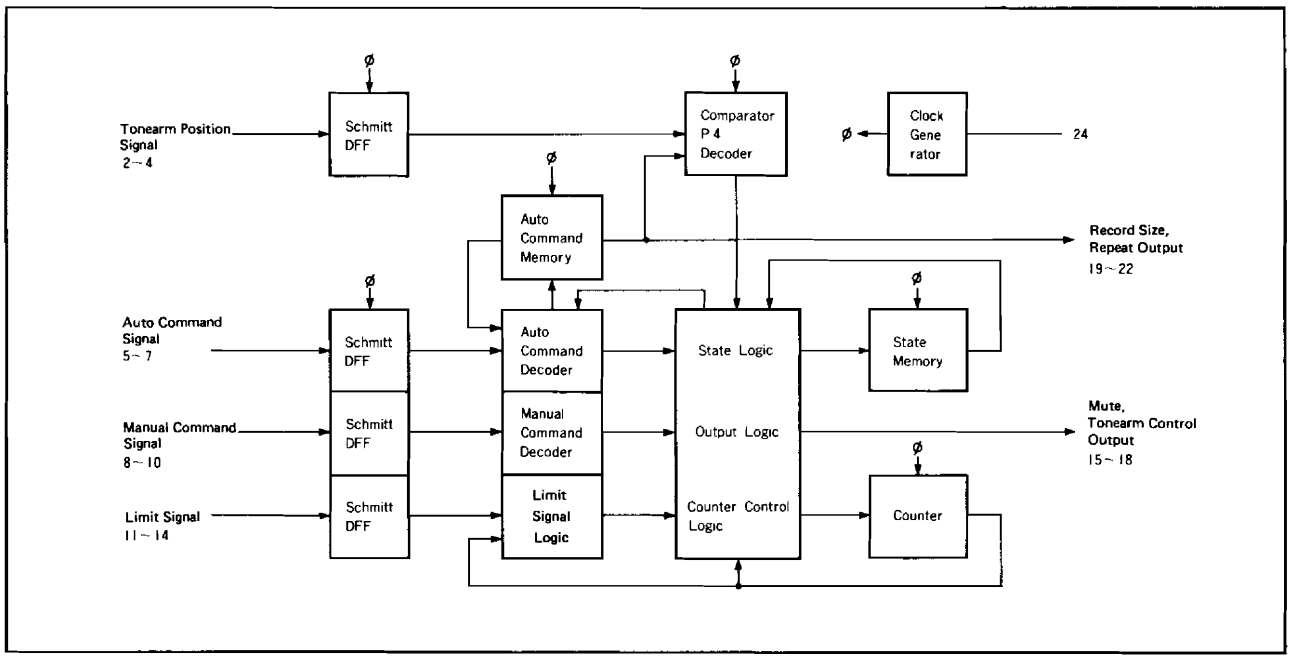
Tonearm Control Circuit



DC Motor Servo Circuit



■LOGIC CONTROL IC : YM-294



Pin arrangement

Power voltage +12V	1	VSS	CR	24	Clock (Input/Output)
	2	P1	VDD	23	Ground
	3	P2	L30	22	
	4	P3	L25	21	
	5	A1	L17	20	
	6	A2	LR	19	
Input	7	A3	M	18	Output
	8	MD	R	17	
	9	ML	L	16	
	10	MR	D	15	
	11	UL	LL	14	Input
	12	DL	RL	13	

Input Signal

1. Limit Signal: Highest priority signal in logic operation.
   Pin 11; UL. . .UP Limit
   Pin 12; DL. . .Down Limit
   *Arm vartical position signal. Determined by position of lead switch.
   Pin 13; RL. . .Right Limit
   Pin 14; LL. . .Left Limit
   *Arm lateral position signal.

Note: Due to the arrangement of the circuit, the above signals cannot be input simultaneously.

2. Manual Command Signal: This signal has second priority after the limit signal. When one of these signals appears, the auto command signal will be inhibited and cancelled.
   Pin 8; MD . . .Manual Down
   Pin 9; ML. . . .Manual Left
   Pin 10; MR. . .Manual Right

Input			Output		
MD	ML	MR	L	R	Operations
0	0	0	0	0	No Operation
0	0	1	0	1	Manual Right
0	1	0	1	0	Manual Left
0	1	1	1	1	Manual Up/Initial Clear
1	0	0	0	0	Manual Down
1	0	1	0	1	Manual Right
1	1	0	1	0	Manual Left
1	1	1	0	0	Manual Up

3. Auto Command Signal: These are command signals which automatically operate the arm. This signal is inhibit by the Manual Command Signal.
   Pin 5 to 7

A logic table without manual command signal.

A3	A2	A1	Operations	Output
0	0	0	No Operation	
0	0	1	Memorize the record size 30cm	L30=1
0	1	0	Memorize the record size 25cm	L25=1
0	1	1	Memorize the record size 17cm	L17=1
1	0	0	* Reverse the repeat memory	LR reverse
1	0	1	No Operation	
1	1	0	No Operation	
1	1	1	Cut command	

* Reverse operation is performed only when L30=1, L25=1 and L17=1.

4. Tonearm Position Signal: A signal that indicates the tonearm position in both directions. It indicates the posit on where a play starts at the full automatic mode or the tonearm returns to the tonearm rest at the full- or semi-auto mode.
   Pin 2 to 4

P3	P2	P1	Meaning
0	0	0	Arm position: Outer periphery
0	0	1	" 30cm lead-in
0	1	1	" 30cm to 25cm
0	1	0	" 25cm lead-in
1	1	0	" 25cm to 17cm
1	1	1	" 17cm lead-in
1	0	1	" Less than 17cm *
1	0	0	" Inner periphery *

*In inner-most grooves, the operation repeats in a 2mm pitch so that the tonearm moving speed can be detected.

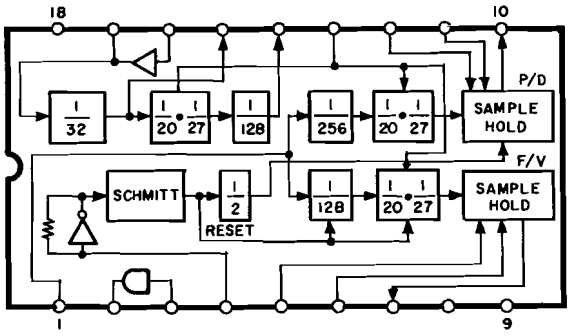
Output Signal

Output signals come to all output terminals synchronizing to the clock.

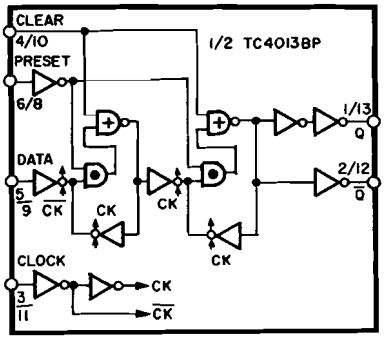
1. Tonearm Control Signal: The signal designates the arm's up and down, and right and left movements in all modes such as full auto, semi-auto and manual operations.
2. Mute Signal: As the signal generated when the arm is raised and lowered in all mode such as full auto, semi-auto and manual operations, it can be used for muting of audio signals.
3. Record Side, Repeat Signal: At the full auto mode, the signal drives LEDs so that they can display the record size and repeat operation, corresponding to the auto command signal.
   Pin 19; LR . . .LED Repeat
   Pin 20; L17 . .LED•17cm Record
   Pin 21; L25 . .LED 25cm Record
   Pin 22; L30 . .LED 30cm Record

■IC FUNCTIONAL BLOCK DIAGRAM

VC4046 (IC2: Motor servo C. Board)



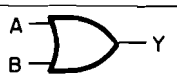
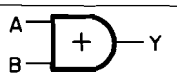
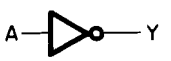
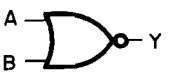
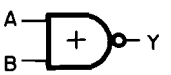
TC4013BP (IC2: Control C. Board)



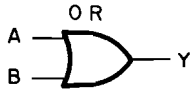
※: Don't Care
△: Level Change
●: No Change

INPUTS				OUTPUTS	
CL	PR	D	CP △	Qn+1	$\overline{Q}$n+1
L	H	※	※	H	L
H	L	※	※	L	H
H	H	※	※	L	H
L	L	L	↓	L	H
L	L	H	↓	H	L
L	L	※	↑	Qn●	$\overline{Q}$n●

●LOGIC SYMBOL

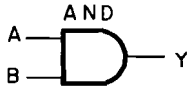
Function	LOGIC SYMBOL	
	MIL	YAMAHA
O R		
AND		
NOT (INVERTER)		
NOR		
NAND		

OR



A	B	Y
L	L	L
H	L	H
L	H	H
H	H	H

AND



A	B	Y
L	L	L
H	L	L
L	H	L
H	H	H

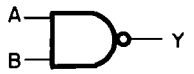
NOT (Inverter)

A	Y
L	H
H	L

NOR

A	B	Y
L	L	H
H	L	L
L	H	L
H	H	L

NAND

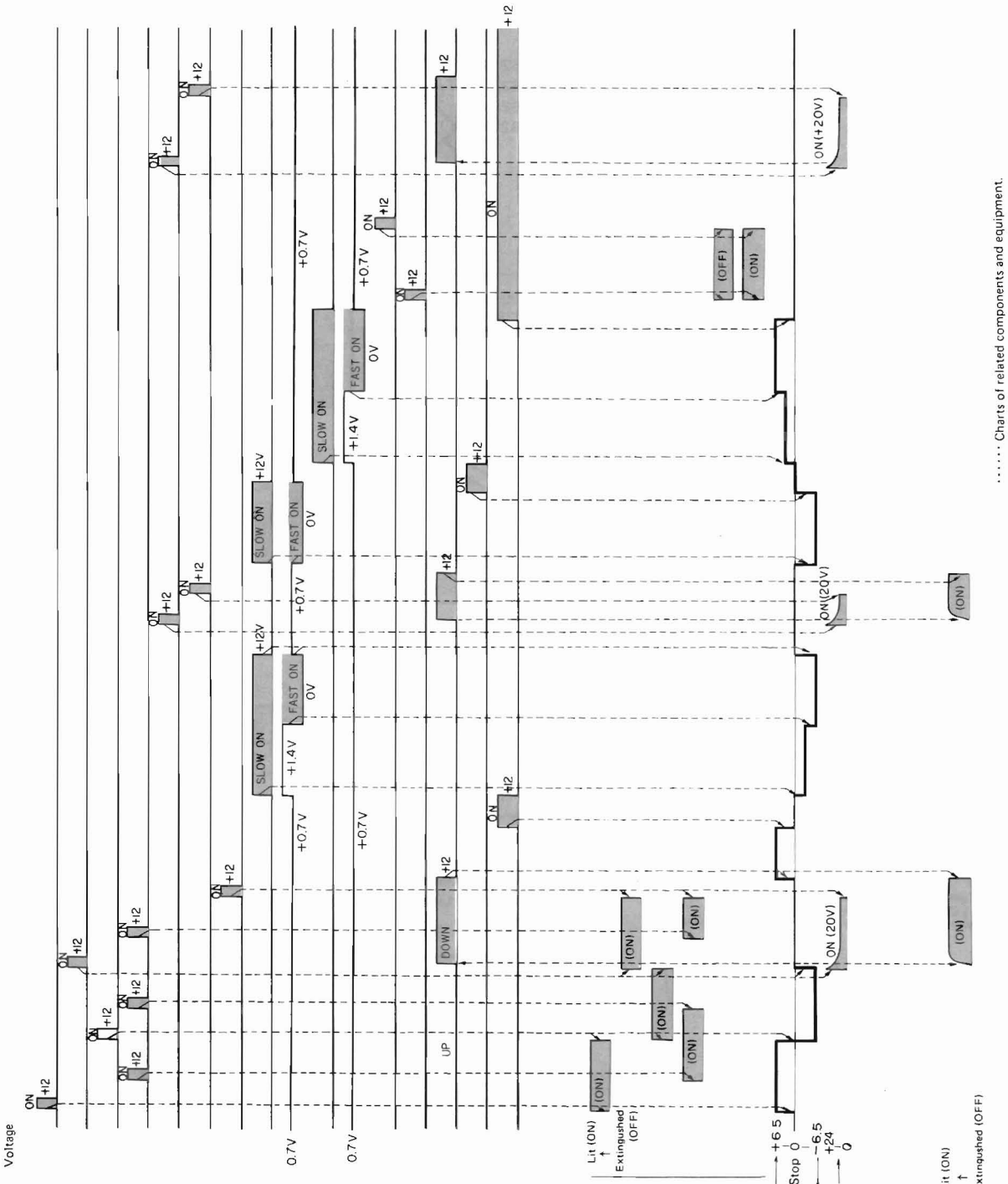


A	B	Y
L	L	H
H	L	H
L	H	H
H	H	L

Exclusive OR

A	B	Y
L	L	L
H	L	H
L	H	H
H	H	L

■TIMING CHART



■SPECIFICATIONS

TONEARM SECTION

Arm type . . . . . Linear tracking arm
Servo system . . . . . Photo-electric tracking sensor plus servo motor
Total length . . . . . 236 mm (9-9/32")
Effective length . . . . . 190 mm (7-15/32")
Tracking force device . . . . . Static balance type sliding weight system 0 to 2.5 g, in 0.1 g steps
Effective mass . . . . . Proporional type to tracking force
(In cartridge-less state) 1.0 g (Tracking force) . . . . . 16.5 g
1.5 g (Tracking force) . . . . . 17.0 g
2.0 g (Tracking force) . . . . . 17.5 g
Applicable cartridge weight fange . . . . . 5 to 11 g, (Using sub-weights) 10 to 16 g
Maximum horizontal tracking error angle . . . . . ±0.15°, at stylus tip ±0.5 mm
Arm lifter . . . . . Oil damp type cueing
Adjustable range of arm height . . . . . ±4.0 mm
Head shell . . . . . Pure, forged aluminum, weight: 8.0 g, Plug-in type conforming to EIA Standards
PU Cable . . . . . NEGLEX 2496, Low-impedance, double cylindrical cord
Capacitance: 130pF
Resistance: 1Ω
Cartridge (Not provided) . . . . . Replaceable

ROTARY SECTION

Motor . . . . . DC, 4-phase, 8-pole coreless Hall motor
Starting torque . . . . . 1 kg-cm, or more
Drive system . . . . . Direct drive
Servo sytem . . . . . Quartz PLL, Negative/positive two-direction servo
Locking torque 450g-cm
F.G. . . . . . Total circumference integrating type
Speed (With Lock Indicator) . . . . . 33-1/3 r.p.m., 45 r.p.m.
Platter . . . . . 31 cm (12-1/4") diameter, aluminum die-cast, Weight: 2.1 kg (4.62 lbs) (Including rubber mat)
Moment of inertia . . . . . 270 kg·cm^2 (Including rubber mat)

EXTERNAL DESIGN

Cabinet . . . . . Alumimum, die-cast, 5 mm thick black enamel coating
Dust cover . . . . . Acrylic, Resins, 5 mm thick, weighting 1.3 kg, Front operating type
Hinges . . . . . Free stop, detachable type
Insulator . . . . . Combination of spring-and-rubber type with height adjustment

CONTROL SECTION

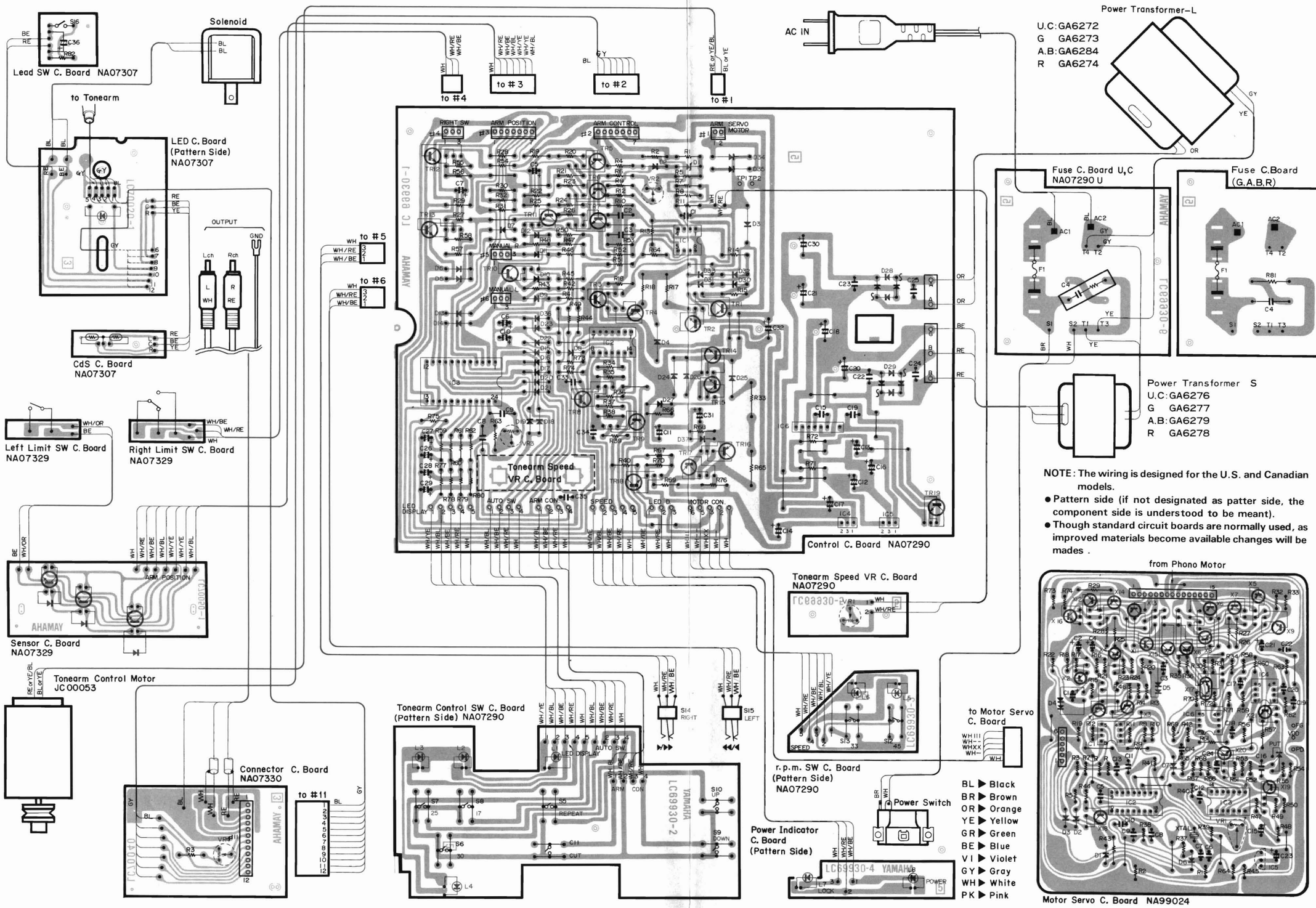
Automatic functions . . . . . AUTO-LEAD-IN/ AUTO-RETURN/ REPEAT/ AUTO-UP (During Power-OFF)
Size selector . . . . . 17 / 25 / 30 cm (7" / 10" / 12")
Manual functions . . . . . ARM-UP/ ARM-DOWN/ LEFTWARD & RIGHTWARD 2-speed feeding/ CUT
Speed . . . . . 33-1/3 r.p.m. and 45 r.p.m.
Others . . . . . Power switch

GENERAL

Signal to Noise ratio . . . . . 80 dB (IEC 98A Weighted)
Wow and flutter . . . . . 0.01 % WRMS (FG direct)
Power supply and consumption
U.S. and Canadian Models . . . . . 120V AC, 60Hz, 25W
European Model . . . . . 220V AC, 50Hz, 25W
Australian and British Models . . . . . 240V AC, 50Hz, 25W
General Model . . . . . 110/120/130/220/230/240V AC, 50/60Hz, 22W
Dimensions (W x H x D) . . . . . 493 x 156 x 428 mm (19-7/16" x 6-5/32" x 16-27/32")
Total weight . . . . . 17 kg (37.4 lb)

Specifications are subject to change without notice.

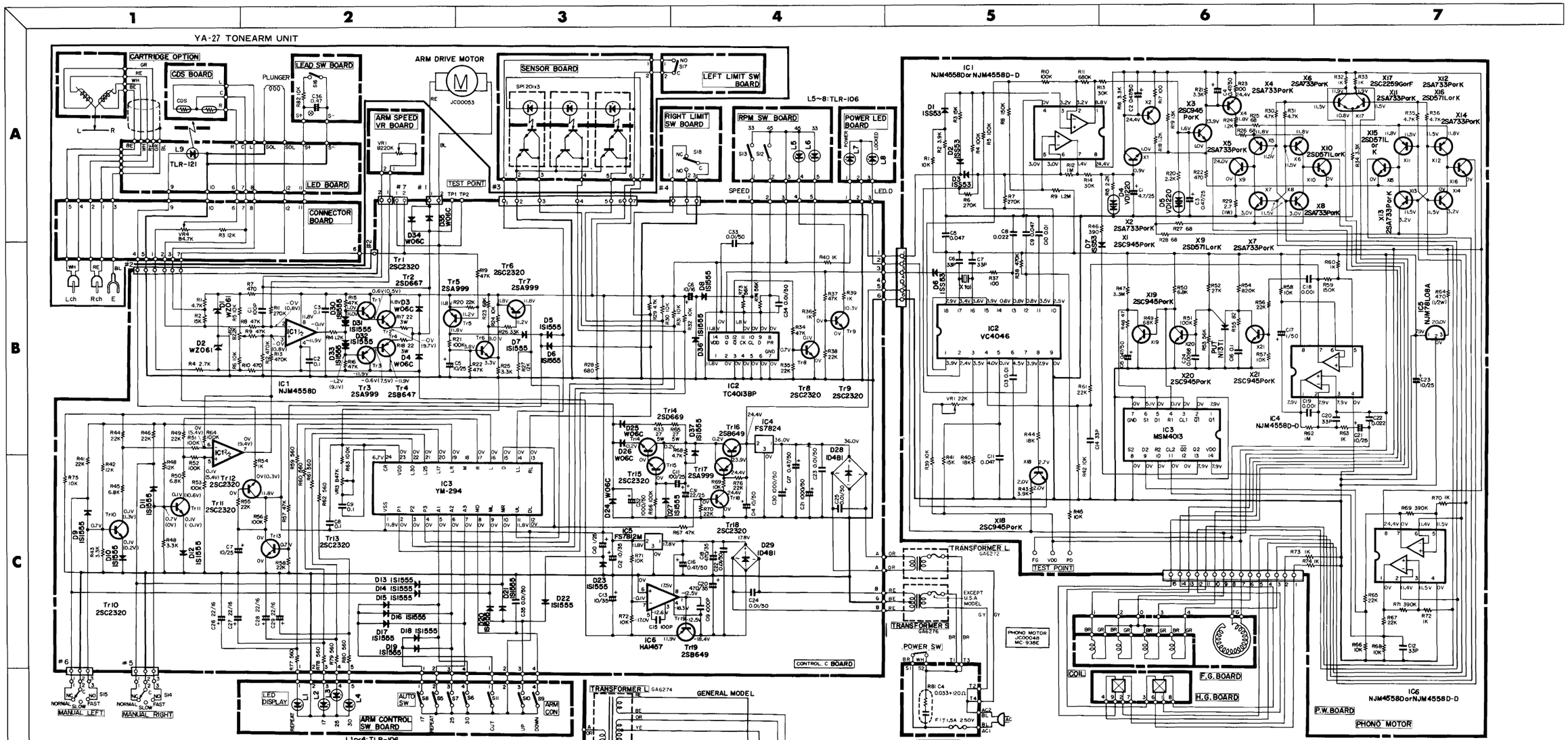
■WIRING



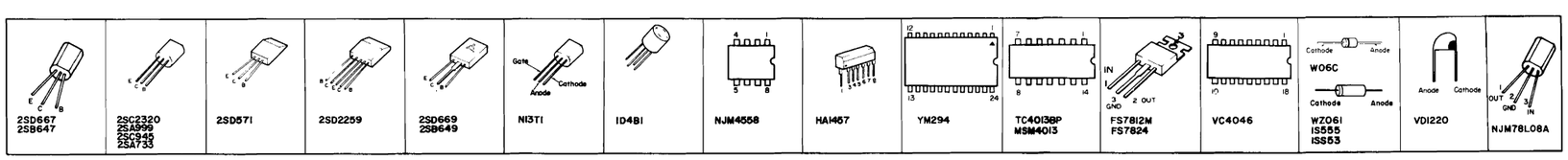
NOTE: The wiring is designed for the U.S. and Canadian models.

- Pattern side (if not designated as patter side, the component side is understood to be meant).
- Though standard circuit boards are normally used, as improved materials become available changes will be mades .

■SCHEMATIC DIAGRAM



- Voltages without ( ) indicate phono motor rotation and tonearm in a "STOP" position. Voltages with ( ) indicate phono motor rotation and the movement of the tonearm in a "UP" position



PARTS LIST

PX-2

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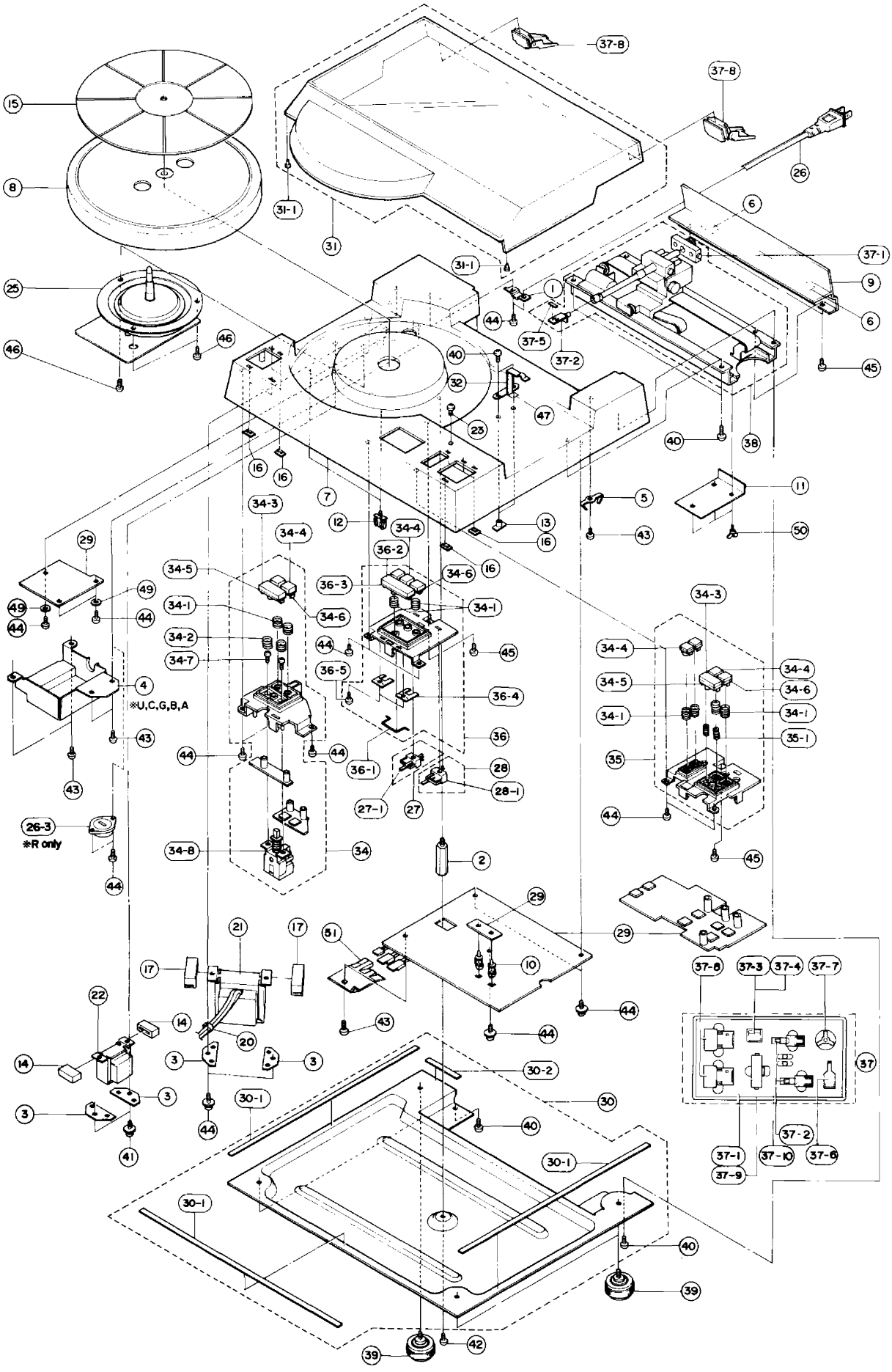
SINCE 1887 YAMAHA
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

004403

'80. 5 2.4K K.T Printed in Japan.

PX-2 ■EXPLODED VIEW (All over)



■PARTS LIST(All over)

	Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	1	32 00 00 AA 06 42 40	Cord Stopper	コードストッパー			
※	2	32 00 00 AA 09 75 30	Jointed Rod	連結棒			
※	3	32 00 00 AA 09 75 40	Holder, Power Transformer	トランス止め板			
※	4	32 00 00 AA 09 77 90	Cover for Fuse	ヒューズカバー			U,C,G,B,A
	5	32 00 00 AA 07 39 20	Wire Clip	束線止め			
※	6	32 00 00 AA 60 08 10	Spacer, Rear Cover	リヤカバースペーサー			
※	7	32 00 00 BA 07 58 10	Panel	パネル			
※	8	32 00 00 BA 07 57 80	Turn Table	ターンテーブル			
※	9	32 00 00 BA 07 58 30	Rear Cover	リヤカバー			
※	10	32 00 00 CB 09 26 80	Circuit Board Holder	シートホルダー			
※	11	42 00 00 CA 06 90 60	Screw Tem Plate	固定ビスシート			
※	12	32 00 00 CB 09 26 70	Wire Clip	ワイヤークリップ			
※	13	32 00 00 CB 09 26 50	Screw Grommet	スクリューグロメット			
	14	32 00 00 CB 07 85 80	Cushion for Power Transformer	トランスクッション			
	15	32 00 00 CB 08 03 80	Turn Table Sheet	ターンテーブルシート		YP-D3	R,A,G,C,B
	〃	32 00 00 CB 08 30 30	〃	〃		YP-D10	U
	16	32 00 00 CB 08 40 00	Lens, Illuminate	表示レンズ			
※	17	32 00 00 CB 09 18 70	Cushion for Power Transformer	トランスクッション			
	20	42 00 00 CB 06 92 50	Binding Tie	インシュロックタイ			
※	21	42 00 00 GA 62 71 10	Power Transformer (L)	電源トランスL			J
※	〃	42 00 00 GA 62 72 10	〃	〃			U,C
※	〃	42 00 00 GA 62 73 10	〃	〃			G
※	〃	42 00 00 GA 62 84 10	〃	〃			A,B
※	22	42 00 00 GA 62 75 00	Power Transformer (S)	電源トランスS			J
※	〃	42 00 00 GA 62 76 00	〃	〃			U,C
※	〃	42 00 00 GA 62 77 00	〃	〃			G
※	〃	42 00 00 GA 62 79 00	〃	〃			A,B
※	23	32 00 00 CB 09 59 50	Bush for Panel	パネルブッシュ			
※	25	42 00 00 JC 00 04 80	Motor Ass'y MC938E	モーターユニット			
※	26	42 00 00 MG 00 04 10	AC Cord	電源コード			J
	〃	42 00 00 MG 00 08 40	〃	〃		YP-D8	R,U,C
	〃	42 00 00 MG 00 09 50	〃	〃		K-850	G
	〃	42 00 00 MG 00 09 20	〃 SAA2P	〃			A
※	〃	32 00 00 MZ 07 59 50	AC Cord Ass'y	BS電源コードAss'y			B
※	26-1	42 00 00 GA 62 74 10	Power Transformer (L)	電源トランスL			R
※	26-2	42 00 00 GA 62 78 00	〃 (S)	電源トランスS			R
	26-3	42 00 00 LB 20 02 60	Voltage Selector	電圧切換器			R
※	27	32 00 00 MZ 07 53 50	Leaf Switch (L) Ass'y	リーフSW(L)Ass'y			
※	27-1	32 00 00 NB 09 39 70	Switch Ass'y	スイッチAss'y			
※	28	32 00 00 MZ 07 53 70	Leaf Switch (R) Ass'y	リーフSW(R)Ass'y			
※	28-1	32 00 00 NB 09 39 80	Switch Ass'y	スイッチAss'y			
※	29	32 00 00 NA 07 28 90	Control Circuit Board Ass'y	コントロールシートAss'y			J
※	〃	32 00 00 NA 07 29 00	〃	〃			U
※	〃	32 00 00 NA 07 29 10	〃	〃			C
※	〃	32 00 00 NA 07 29 20	〃	〃			G
※	〃	32 00 00 NA 07 29 30	〃	〃			R
※	〃	32 00 00 NA 07 29 60	〃	〃			B
※	〃	32 00 00 NA 07 29 70	〃	〃			A
※	30	32 00 00 NB 09 11 50	Bottom Cover Ass'y	底板Ass'y			
※	30-1	32 00 00 CB 09 17 50	Cushion (L) for Bottom Cover	底板クッション(L)			
※	30-2	32 00 00 CB 09 17 60	Cushion (S) For Bottom Cover	底板クッション(S)			
※	31	32 00 00 NB 09 11 70	Dust Cover Ass'y	上蓋Ass'y			
※	31-1	32 00 00 CB 09 17 90	Cushion For Dust Cover	上蓋クッション			

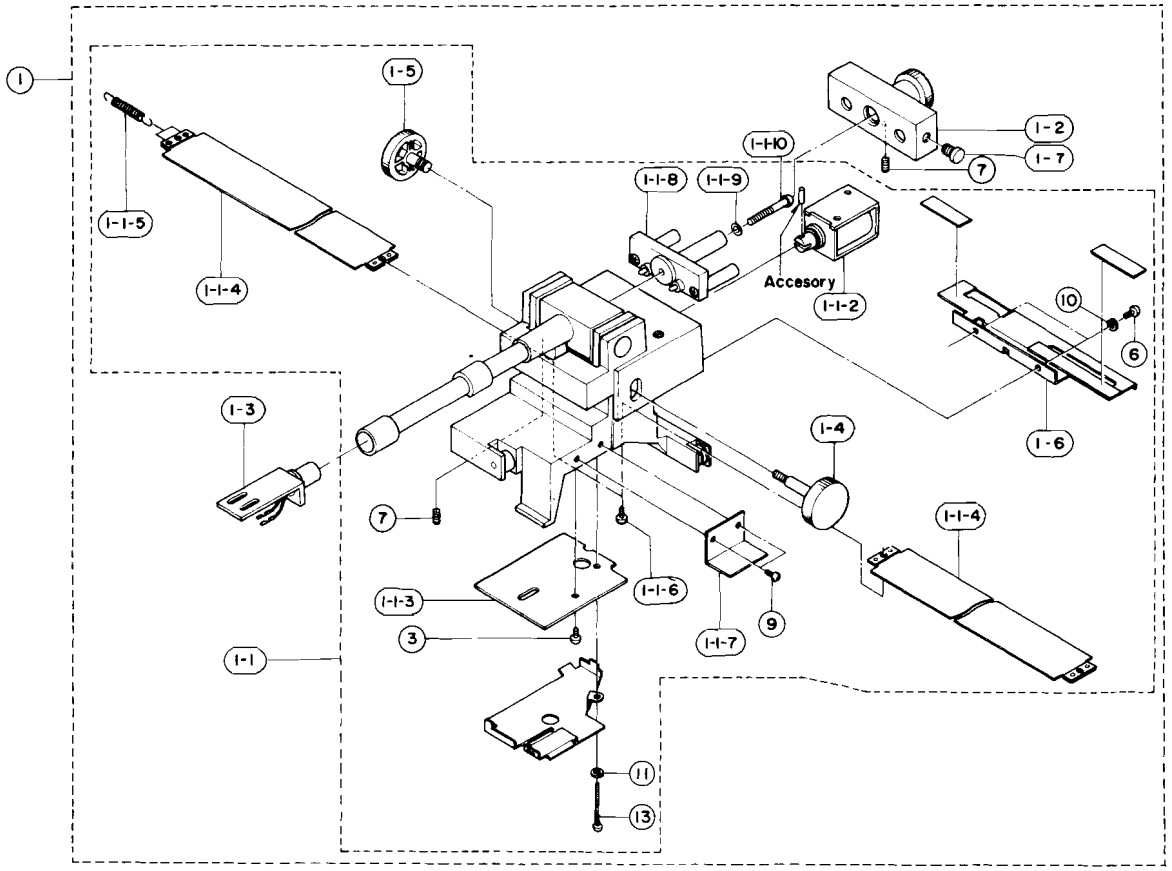
※ : New Part (新部品)

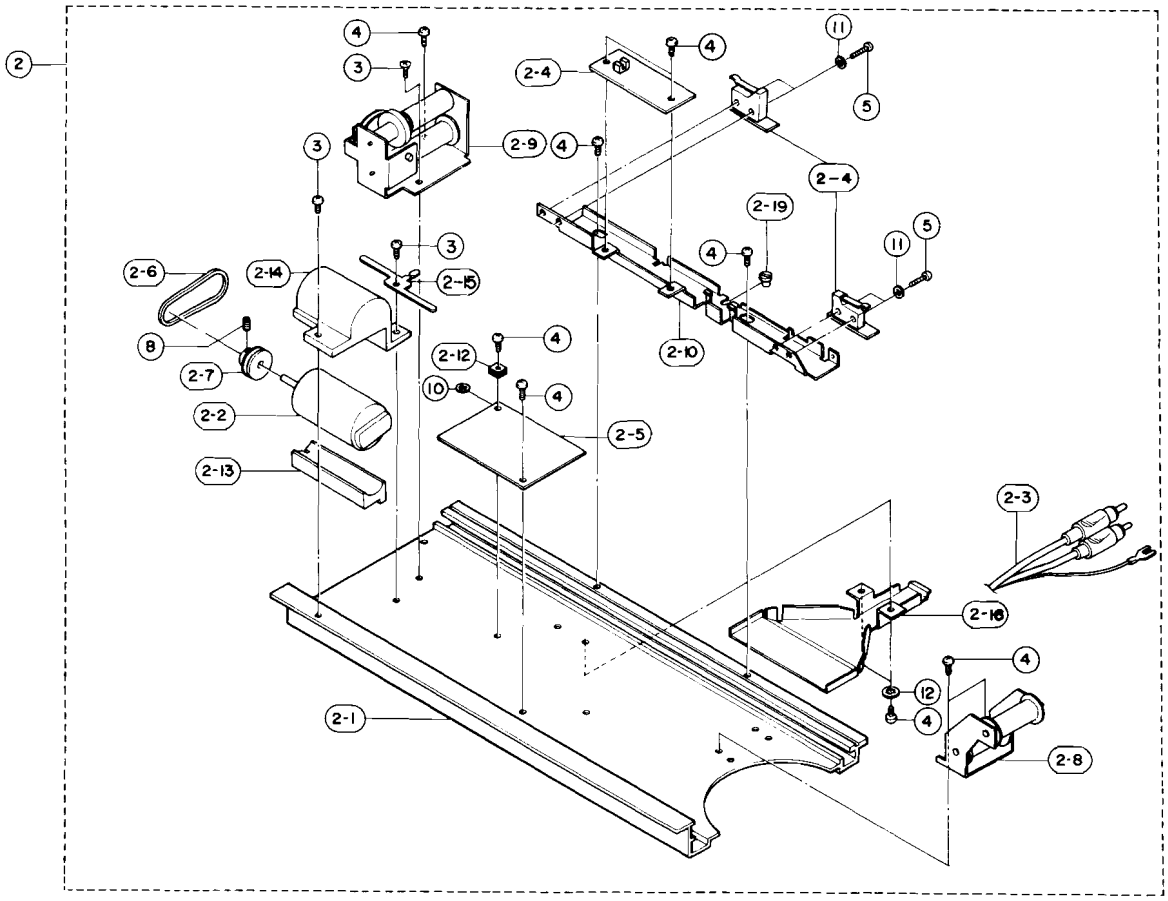
DESTINATION ABBREVIATIONS
J;Japan, R;General, U;U.S.A, C;Canadian, B;British, G;North European, A;Australian

	Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※	32	32 00 00 AA 09 89 10	Hold Plate For Tone Arm (Accesory)	アーム固定プレート			
※	34	32 00 00 NB 09 11 80	Power Switch Ass'y	パワーSW Ass'y			R
※	〃	32 00 00 NB 09 12 10	〃	〃			U,C
※	〃	32 00 00 NB 09 12 20	〃	〃			A,G,B
※	34-1	32 00 00 AA 09 75 70	Spring For Button (L)	ボタンスプリング(L)			
※	34-2	32 00 00 AA 09 75 90	Spring For Power Switch	パワースプリング			
※	34-3	32 00 00 BA 07 58 70	Cap For Button (M)	ボタンキャップ(M)			
※	34-4	32 00 00 BA 07 58 80	〃 (S)	〃 (S)			
※	34-5	32 00 00 CB 09 17 30	Button (M)	スイッチボタン(M)			
※	34-6	32 00 00 CB 09 17 40	〃 (S)	〃 (S)			
	34-7	42 00 00 EA 03 00 60	Pan Head Screw 3×6 (ZMC2-Y)	⊕ナベ小ネジ			
	34-8	42 00 00 KA 80 08 90	Power Switch SDK	電源スイッチ			R
	〃	42 00 00 KA 80 05 00	〃 SDG1P	〃			U,C
	〃	42 00 00 KA 80 05 10	〃 SDG5PE	〃			A,G,B
※	35	32 00 00 NB 09 11 90	Contorol Switch Ass'y	コントロールSW Ass'y			
※	35-1	32 00 00 AA 09 75 80	Spring For Button (S)	ボタンスプリング(S)			
※	36	32 00 00 NB 09 12 00	Arm Switch Ass'y	アームSW Ass'y			
※	36-1	32 00 00 AA 09 77 60	Stabilizer For Lever Switch (L)	スタビライザL			
※	36-2	32 00 00 BA 07 58 60	Cap For Button (L)	ボタンキャップ(L)			
※	36-3	32 00 00 CB 09 17 20	Button (L)	スイッチボタン(L)			
※	36-4	32 00 00 AA 60 05 50	Spring, Leaf Type	リーフスプリング			
※	36-5	42 00 00 EZ 00 10 40	Bind Head Tap Tight Screw (B-Tight) 3×6 (ZMC2-Y)	⊕バインドタップタイト(Bタイト)			
※	37	32 00 00 NB 09 12 40	Accesories For PX-2	PX-2付属品Ass'y			
※	37-1	32 00 00 PB 06 18 60	Main Waight Ass'y	ウェイトAss'y			
※	37-2	32 00 00 PB 06 15 10	Head Shell Ass'y	ヘッドシェル	MC-3331		
※	37-3	32 00 00 BX 99 00 10	Screw ℓ=18mm	カートリッジ止めビス			
※	37-4	32 00 00 BX 99 00 20	〃 ℓ=10mm	〃			
※	37-5	32 00 00 SX 20 03 30	Nut (Plate Type)	ナットプレート	MC3025		
※	37-6	32 00 00 CB 09 26 30	Over Hung Gage	カートリッジ固定ゲージ			
	37-7	32 00 00 CB 07 94 60	E.P Adapter	EPアダプター			
※	37-8	32 00 00 PB 06 12 10	Hinge Ass'y	オートヒンジAss'y			
※	37-9	32 00 00 SX 20 03 10	Weight Cap	ウェイトキャップ			
※	37-10	32 00 00 SX 20 03 20	Sub Weight	サブウェイト			
※	38	32 00 00 SS 06 01 90	Tone Arm Unit YA-27	YA-27トーンアームユニット			
※	39	32 00 00 PB 06 13 30	Insulator Ass'y	インシュレーターAss'y			R,A,G,C,B
※	〃	32 00 00 PB 06 13 40	〃 (Only U.S.A)	〃			U
	40	42 00 00 EK 95 00 10	Bind Head Tap Tight Screw (B-Tight) 4×10 (ZMC2-Bl)	⊕バインドタップタイト(Bタイト)			
	42	42 00 00 ED 94 01 00	Bind Head Screw 4×10 (ZMC2-Bl)	⊕バインド小ネジ			
	43	42 00 00 EK 09 50 20	Bind Head Tap Tight Screw(B-Tyte) 3×6(ZMC2-Y)	⊕バインドタップタイト(Bタイト)			
※	44	42 00 00 EK 09 50 30	〃 3×8(ZMC2-Y)	〃			
	45	42 00 00 EK 39 50 10	〃 3×10(ZMC2-Bl)	〃			
※	46	42 00 00 EK 39 50 20	〃 4×8(ZMC2-Bl)	〃			
※	47	42 00 00 CA 06 91 70	Lavel	固定プレートラベル			
	49	42 00 00 EV 20 03 00	Flat Washer φ3 (ZMC2-Y)	平座金			
※	50	42 00 00 EU 04 00 80	Bolt (With Wing) M4×8(ZMC2-Y)	蝶ネジ			
	51	32 00 00 BB 06 87 50	Transistor Pusher	トランジスタ押え			

※ : New Part (新部品)

PX-2 ■EXPLODED VIEW (Tone Arm)





■PARTS LIST(Tone Arm)

	Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※		32 00 00 SS 06 01 90	Tone Arm Unit YA-27	YA-27トーンアームユニット			
※	1	32 00 00 PB 06 15 20	Tone Arm Ass'y	アーム本体Ass'y			
※	1-1	32 00 00 PB 06 18 50	Pick Up Ass'y	ピックアップAss'y			
※	1-1-2	42 00 00 JF 00 02 30	Solenoid SD1L10A-29	ソレノイド			
※	1-1-3	32 00 00 NA 07 30 70	LED. C・Board	LEDシート組立			
※	1-1-4	32 00 00 PB 06 18 70	Flat Belt Ass'y	平ベルトAss'y			
※	1-1-5	32 00 00 SX 20 02 90	Tension Spring	テンションスプリング	MC3364		
※	1-1-6	32 00 00 SX 20 00 90	Screw, Belt Stopper	ベルト止メネジ	MC2725		
※	1-1-7	32 00 00 SX 20 01 00	Wire Holder PX-2	リード線材押エ			
	1-1-8	32 00 00 SX 20 09 20	Weight Holder Assembly	ウエイトホルダーAss'y			
	1-1-9	42 00 00 SX 95 11 50	Plain Washer φ3×φ6×t0.5	平座金	MC1202		
	1-1-10	32 00 00 SX 20 09 10	Mounting Screw	ウエイト軸取付ネジ			
※	1-2	32 00 00 PB 06 18 60	Main Waight Ass'y	ウエイトAss'y			
※	1-3	32 00 00 PB 06 15 10	Head Shell Ass'y	ヘッドシェルAss'y			
※	1-4	32 00 00 SX 20 00 20	Lock Knob Unit	ロックツマミユニット	MC2667		
※	1-5	32 00 00 SX 20 00 30	Up-Down Knob Unit	上下ツマミユニット	MC2666		
※	1-6	32 00 00 SX 20 01 60	Shutter Plate	シャッタープレート	MC2687		
※	1-7	32 00 00 SX 20 03 10	Weight Cap	ウエイトキャップ			
※	2	32 00 00 PB 06 15 00	Rear Base Ass'y	リヤベースAss'y			
※	2-1	32 00 00 BA 07 58 20	Rear Base	リヤベース			
※	2-2	42 00 00 JC 00 05 30	Motor LS-26	コアレスモーター			
※	2-3	42 00 00 Mi 06 63 30	P.U Cord	PUコード			
※	2-4	32 00 00 NA 07 32 90	Sensor C・Board	センサーシート組立			
※	2-5	32 00 00 NA 07 33 00	Terminal C・Board	中継シート組立			
※	2-6	32 00 00 SX 20 00 40	Belt	角ベルト	MC2683		
※	2-7	32 00 00 SX 20 03 00	Motor Pulley	モータープーリー	MC3497		
※	2-8	32 00 00 SX 20 00 60	Pulley Bearing Base Ass'y	プーリー軸受台Ass'y			
※	2-9	32 00 00 SX 20 00 70	Bearing Base Ass'y (L)	軸受台(L) Ass'y			
※	2-10	32 00 00 SX 20 00 80	Sensor Angle	センサアングル	MB1908		
※	2-12	32 00 00 SX 20 01 10	Spacer	アース用スペーサ	MC2815		
※	2-13	32 00 00 SX 20 01 20	Motor Base	モーター台	MC3014		
※	2-14	32 00 00 SX 20 01 30	Motor Cover	モーターカバー	MB2007		
※	2-15	32 00 00 SX 20 01 40	Stopper	束線止め	MC3089		
※	2-16	32 00 00 SX 20 01 50	Shield Case	シールドケース	MB1902		
※	2-19	32 00 00 SX 20 01 80	Cam, Eccentric type	偏芯カム	MC2685		
	3	42 00 00 EJ 33 00 80	Pan Head Tapping Screw 3×8 (FCM3-Bl)	ナベタッピングネジ			
	4	42 00 00 EJ 33 00 60	〃 3×6 (FCM3-Bl)	〃			
	5	42 00 00 EA 02 01 00	Pan Head Screw 2×10 (ZMC2-Y)	ナベ小ネジ			
	6	42 00 00 EA 03 00 60	〃 M3×6(ZMC2-Y)	〃			
	7	42 00 00 EZ 00 11 00	Screw M2×5 (FCM3-Bl)	スリ割付丸先止メネジ			
	8	42 00 00 EZ 00 06 50	Hexagonal Head Screw M3	六角穴付ボルト			
	9	42 00 00 EA 03 00 40	Pan Head Screw M3×4(ZMC2-Y)	ナベ小ネジ			
	10	42 00 00 EV 30 03 00	Spring Washer φ3mm	バネ座金			
	11	42 00 00 EV 20 02 10	Plain Washer φ2.1mm	平座金			
	12	42 00 00 EV 41 00 30	Toothed Lock Washer φ3	歯付座金			
	13	42 00 00 EA 12 02 00	Pan Head Screw 2×20 (FNM-3g)	ナベ小ネジ			

※ : New Part (新部品)

■PARTS LIST(Circuit Board)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	32 00 00 NA 07 28 90	Control C·B Ass'y	コントロールシートAss'y			J
	32 00 00 NA 07 29 00	〃	〃			U
	32 00 00 NA 07 29 10	〃	〃			C
	32 00 00 NA 07 29 20	〃	〃			G
	32 00 00 NA 07 29 30	〃	〃			R
	32 00 00 NA 07 29 60	〃	〃			B
	32 00 00 NA 07 29 70	〃	〃			A
R1	42 00 00 HK 35 64 70	Carbon Resistor 4.7KΩ	カーボン抵抗			
R2	42 00 00 HK 35 71 50	〃 15KΩ	〃			
R4	42 00 00 HJ 35 62 70	Carbon Resistor 2.7KΩ	カーボン抵抗			
R5 R6	42 00 00 HJ 35 71 00	〃 10KΩ	〃			
R7	42 00 00 HJ 35 54 70	〃 470Ω	〃			
R8 R9	42 00 00 HJ 35 74 70	〃 47KΩ	〃			
R10	42 00 00 HJ 35 54 70	〃 470Ω	〃			
R11	42 00 00 HJ 35 82 70	〃 270KΩ	〃			
R12 R13	42 00 00 HJ 35 84 70	〃 470KΩ	〃			
R14	42 00 00 HJ 35 61 20	〃 1.2KΩ	〃			
R15 R16	42 00 00 HJ 35 74 70	〃 47KΩ	〃			
※ R17 R18	42 00 00 HM 03 42 20	Cement Molded Resistor 3w 22Ω	セメント抵抗	MO-4P		
R19	42 00 00 HJ 35 74 70	Carbon Resistor 47KΩ	カーボン抵抗			
R20	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R21	42 00 00 HJ 35 81 00	〃 100KΩ	〃			
R22	42 00 00 HJ 35 74 70	〃 47KΩ	〃			
R23	42 00 00 HJ 35 76 80	〃 68KΩ	〃			
R24	42 00 00 HJ 35 71 00	〃 10KΩ	〃			
R25	42 00 00 HJ 35 63 30	〃 3.3KΩ	〃			
R26	42 00 00 HJ 35 73 30	〃 33KΩ	〃			
R27	42 00 00 HJ 35 71 20	〃 12KΩ	〃			
R28	42 00 00 HJ 35 56 80	〃 680Ω	〃			
R29	42 00 00 HJ 35 64 70	〃 4.7KΩ	〃			
R30 ~32	42 00 00 HJ 35 71 00	〃 10KΩ	〃			
※ R33	42 00 00 HM 05 42 70	Cement Molded Resistor 5w 27Ω	セメント抵抗	MO-4P		
R34	42 00 00 HJ 35 74 70	Carbon Resistor 47KΩ	カーボン抵抗			
R35	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R36	42 00 00 HJ 35 61 00	〃 1KΩ	〃			
R37	42 00 00 HJ 35 74 70	〃 47KΩ	〃			
R38	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R39 R40	42 00 00 HJ 35 61 00	〃 1KΩ	〃			
R41	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R42	42 00 00 HJ 35 71 20	〃 12KΩ	〃			
R43	42 00 00 HJ 35 63 30	〃 3.3KΩ	〃			
R44	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R45	42 00 00 HJ 35 66 80	〃 6.8KΩ	〃			
R46	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R47	42 00 00 HJ 35 71 20	〃 12KΩ	〃			
R48	42 00 00 HJ 35 63 30	〃 3.3KΩ	〃			
R49	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R50	42 00 00 HJ 35 66 80	〃 6.8KΩ	〃			
R51 ~53	42 00 00 HJ 35 81 00	〃 100KΩ	〃			
R54	42 00 00 HJ 35 61 00	〃 1KΩ	〃			
R55	42 00 00 HJ 35 72 20	〃 22KΩ	〃			
R56	42 00 00 HJ 35 81 00	〃 100KΩ	〃			

※ : New Part (新部品)

	Ref. No.	Part No.	Description		(部 品 名)	Remarks	Common model	Markets
	R57	42 00 00 HJ 35 74 70	Carbon Resistor	47KΩ	カーボン抵抗			
	R58	42 00 00 HJ 35 72 20	〃	22KΩ	〃			
	R59 ~62	42 00 00 HJ 35 55 60	〃	560Ω	〃			
	R63 R64	42 00 00 HJ 35 81 00	〃	100KΩ	〃			
※	R65	42 00 00 HM 05 42 70	Cement Molded Resistor 5w	27Ω	セメント抵抗	MO-4P		
	R66	42 00 00 HJ 35 81 00	Carbon Resistor	100KΩ	カーボン抵抗			
	R67	42 00 00 HJ 35 74 70	〃	47KΩ	〃			
	R68	42 00 00 HJ 35 64 70	〃	4.7KΩ	〃			
	R69	42 00 00 HJ 35 71 00	〃	10KΩ	〃			
	R70	42 00 00 HJ 35 72 20	〃	22KΩ	〃			
	R71 R72	42 00 00 HJ 35 71 00	〃	10KΩ	〃			
	R73 R74	42 00 00 HJ 35 75 60	〃	56KΩ	〃			
	R75	42 00 00 HJ 35 71 00	〃	10KΩ	〃			
	R76	42 00 00 HJ 35 72 20	〃	22KΩ	〃			
	R77 ~80	42 00 00 HJ 35 55 60	〃	560Ω	〃			
	R81	42 00 00 HG 10 51 00	〃 1 2W	100Ω	〃			R,A,G,B
	VR1	42 00 00 HT 41 01 00	Semi Variable Resistor	B220KΩ	ソリッドボリューム			
	VR2	42 00 00 HT 41 00 30	〃	B2.2KΩ	〃			
	VR3	42 00 00 HT 41 01 40	〃	B47KΩ	〃			
	C1	42 00 00 FG 21 21 00	Ceramic Capacitor	100PF	セラコン			
	C2 C3	42 00 00 FA 45 51 00	Mylar Capacitor	0.1μF	マイラーコンデンサ			
	C5	42 00 00 FJ 34 71 00	Electrolytic Capacitor	10μF 25V	ケミコン(タテガタ)			
	C6	42 00 00 FJ 33 71 00	〃	10μF 16V	〃			
	C7	42 00 00 FJ 34 71 00	〃	10μF 25V	〃			
	C8 C9	42 00 00 FA 45 51 00	Mylar Capacitor	0.1μF	マイラーコンデンサ			
	C10	42 00 00 FJ 24 61 00	Electrolytic Capacitor	1μF 25V	ケミコン(タテガタ)			
	C11	42 00 00 FJ 24 81 00	〃	100μF 25V	〃			
	C12 C13	42 00 00 FJ 15 71 00	〃	10μF 35V	〃			
	C14	42 00 00 FJ 16 71 00	〃	10μF 50V	〃			
	C15	42 00 00 FG 21 21 00	Ceramic Capacitor	100PF	セラコン			
	C16 C17	42 00 00 FJ 16 54 70	Electrolytic Capacitor	0.47μF 50V	ケミコン(タテガタ)			
	C18	42 00 00 FJ 15 84 70	〃	470μF 35V	〃			
	C19	42 00 00 FG 21 31 00	Ceramic Capacitor	1000PF	セラコン			
	C20	42 00 00 FJ 15 84 70	Electrolytic Capacitor	470μF 35V	ケミコン(タテガタ)			
※	C21	42 00 00 FZ 00 19 10	〃	1000μF 50V	〃			
	C22 ~25	42 00 00 FG 24 41 00	Ceramic Capacitor	0.01μF 50V	セラコン			
	C26 ~29	42 00 00 FJ 33 72 20	Electrolytic Capacitor	22μF 16V	ケミコン(タテガタ)			
※	C30	42 00 00 FZ 00 19 10	〃	1000μF 50V	〃			
	C31	42 00 00 FJ 44 72 20	〃	22μF 25V	〃			
	C32	42 00 00 FZ 00 19 10	〃	1000μF 50V	〃			
	C33 ~35	42 00 00 FG 24 41 00	Ceramic Capacitor	0.01μF 50V	セラコン			
	iC1	42 00 00 i G 00 13 90	IC	NJM4558DV	IC			
	iC2	42 00 00 i G 00 11 80	〃	TC4013P	〃			
※	iC3	32 00 00 i T 29 40 00	〃	YM294	〃			
※	iC4	42 00 00 i G 03 41 10	〃	FS7824	〃			
※	iC5	42 00 00 i G 03 08 10	〃	FS7812M	〃			
※	iC6	42 00 00 i G 02 62 00	〃	HA1457	〃			
	TR1	42 00 00 i C 23 20 10	Transistor	2SC2320E,F	トランジスタ			
	TR2	42 00 00 i D 06 67 00	〃	2SD667C,D	〃			

※ : New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
TR3	42 00 00 i A 09 99 10	Transistor 2SA999 E.F	トランジスタ			
TR4	42 00 00 i B 06 47 30	〃 2SB647 C.D	〃			
TR5	42 00 00 i A 09 99 10	〃 2SA999 E.F	〃			
TR6	42 00 00 i C 23 20 10	〃 2SC2320 E.F	〃			
TR7	42 00 00 i A 09 99 10	〃 2SA999 E.F	〃			
TR8 ~13	42 00 00 i C 23 20 10	〃 2SC2320 E.F	〃			
TR14	42 00 00 i D 06 69 00	〃 2SD669 C.D	〃			
TR15	42 00 00 i C 23 20 10	〃 2SC2320 E.F	〃			
TR16	42 00 00 i B 06 49 00	〃 2SB649 C.D	〃			
TR17	42 00 00 i A 09 99 10	〃 2SA999 E.F	〃			
TR18	42 00 00 i C 23 20 10	〃 2SC2320 E.F	〃			
TR19	42 00 00 i B 06 49 00	〃 2SB649 C.D	〃			
D1 D2	42 00 00 i F 00 03 20	Zener Diode WZ061	ツェナーダイオード			
D3 D4	42 00 00 i H 00 07 10	Diode W06C	ダイオード			
D5 ~23	42 00 00 i F 00 00 40	〃 1S1555	〃			
D24 ~26	42 00 00 i H 00 07 10	〃 W06C	〃			
D27	42 00 00 i F 00 00 40	〃 1S1555	〃			
D28 D29	42 00 00 i H 00 04 70	Bridge Diode ID4B1	ブリッジダイオード			
D30 ~33	42 00 00 i F 00 00 40	Diode 1S1555	ダイオード			
D34 D35	42 00 00 i H 00 07 10	〃 W06C	〃			
D36 D37	42 00 00 i F 00 00 40	〃 1S1555	〃			
#1	42 00 00 LB 20 13 90	Post with Base B2P-SHF-1AA	ベース付ポスト			
#2 #3	42 00 00 LB 60 24 60	〃 B7P-SHF-1AA	〃			
#4 ~6	42 00 00 LB 30 07 30	〃 B3P-SHF-1AA	〃			
	42 00 00 LA 00 21 40	Wrapping Pin I Type 2P P=10	I型ラッピングピン			
	42 00 00 LA 00 21 50	〃 3P P=10	〃			
	42 00 00 LA 00 21 10	〃 2P P=5	〃			
L1 ~8	42 00 00 i F 00 08 90	LED TLR-106	LED			
※	32 00 00 CB 09 17 10	Guide for LED	LEDガイド			
L5 ~13	42 00 00 KA 80 09 10	Push Switch	プッシュスイッチ			
	42 00 00 LA 00 05 30	Press Terminal	ハネ付ハトメ	VF		
F1	42 00 00 KB 00 03 40	Fuse T1.5A 250V	ヒューズタイラッシュ			J,R
〃	42 00 00 KB 00 12 90	〃 UL SS-2 1.5A 250V	ULヒューズ			U,C
〃	42 00 00 KB 00 06 40	〃 S 250mAT 250V	ヒューズSタイムラグ			A,G,B
C4	42 00 00 FZ 00 01 10	Spark-Killer Capacitor 120Ω +0.033 125V AC	スパークキラーコン			J,U
〃	42 00 00 FZ 00 11 20	〃 〃	〃			C
〃	42 00 00 FZ 00 22 50	〃 0.022μF 250V	〃			R,A,G,B
	42 00 00 LB 20 09 00	Fuse Holder Pin	ヒューズホルダーピン			
	42 00 00 Mi 06 72 50	Ribbon Wire	リボンワイヤー2芯			
	42 00 00 Mi 06 75 70	〃	〃 3芯			
	42 00 00 Mi 06 78 20	〃	〃 4芯			
	42 00 00 Mi 06 81 20	〃	〃 5芯			
※	42 00 00 Mi 06 81 80	〃	〃 5芯			

※ : New Part (新部品)

	Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
※		32 00 00 NA 07 30 70	LED. C. Board	LEDシート組立			
		42 00 00 i F 00 12 50	LED TLR-121	LED			
		42 00 00 i K 00 02 40	CDS (Dual Type) P1234	デュアルCDS			
※		42 00 00 KA 00 00 40	Micro Lead Switch	マイクロリードスイッチ			
		42 00 00 HJ 35 71 00	Carbon Resister 10KΩ	カーボン抵抗			
		42 00 00 FP 35 54 70	Tantalume E. Capacitor 0.47μF 35V	タンタルコンデンサ			
※		32 00 00 NA 07 32 90	Sensor C. Board	センサーシート組立			
※		42 00 00 KA 60 03 80	Micro Switch	マイクロスイッチ			
※		42 00 00 i K 00 02 50	Photo Interrupter	フォトインタラプタ			
※		32 00 00 NA 07 33 00	Terminal C.Board	中継シート組立			
※		42 00 00 LB 60 34 50	Connector BS12P, SHF-JAA-B	NHコネクタサイド型 ベース付ポスト			
※		42 00 00 HY 00 03 70	Variable Resistor B4.7KΩ CR-19R	メタルグレーズVR			
		42 00 00 HJ 35 71 20	Carbon Resistor 12KΩ	カーボン抵抗			
※		42 00 00 JC 00 04 80	Motor Unit MC938E	モーターユニット			
※		42 00 00 NA 99 02 40	Power C, Board	パワーシート			
	X1	42 00 00 i C 09 45 90	Transistor 2SC945 (P or K)	トランジスタ			
	X2	42 00 00 i A 07 33 00	〃 2SA733 (P or K)	〃			
	X3	42 00 00 i C 09 45 90	〃 2SC945 (P or K)	〃			
	X4 ~8	42 00 00 i A 07 33 00	〃 2SA733 (P or K)	〃			
	X9 X10	42 00 00 i D 05 71 00	〃 2SD5711(K1 or K2)	〃			
	X11 ~14	42 00 00 i A 07 33 00	〃 2SA733 (P or K)	〃			
	X15 X16	42 00 00 i D 05 71 00	〃 2SD571 (K1 or K2)	〃			
	X17	42 00 00 i C 15 83 10	〃 2SC1583 (G or F)	〃			
	X18 ~21	42 00 00 i C 09 45 90	〃 2SC945 (P or K)	〃			
※	PUT	42 00 00 i X 00 00 10	Programable Uni-Junction Transistor N13T1	PUT			
	D1 ~3	42 00 00 i F 99 04 00	Diode 1SS53	ダイオード			
	D4 D5	42 00 00 i F 99 00 60	Varistor Diode VD1220	バリスタダイオード			
	D6 D7	42 00 00 i F 99 04 00	Diode 1SS53	ダイオード			
	IC1	42 00 00 i G 00 13 90	IC NJM4558 DV	IC			
※	IC2	42 00 00 i G 99 02 10	〃 VC4046	〃			
	IC3	42 00 00 i G 00 11 80	〃 JC4013BP	〃			
	IC4	42 00 00 i G 02 84 00	〃 NJM4558DV	〃			
※	IC5	42 00 00 i G 99 03 40	〃 NJM78L08A	〃			
	IC6	42 00 00 i G 00 13 90	〃 NJM4558 DV	〃			
	VR1	42 00 00 HT 41 00 80	Sem Variabl Resistor 2.2K (RVAV310-223)	半固定抵抗			
	X'tal	42 00 00 QU 99 00 10	Quarts Crystal Unit 5.5296MHz	水晶発振器			
	R1	42 00 00 HJ 35 71 00	Carbon Resistor ¼W 10KΩ	カーボン抵抗			
	R2	42 00 00 HJ 35 63 90	〃 3.9KΩ	〃			
	R3	42 00 00 HJ 35 71 50	〃 15KΩ	〃			
	R4 R5	42 00 00 HJ 35 81 00	〃 100KΩ	〃			
	R6 R7	42 00 00 HJ 35 82 70	〃 270KΩ	〃			
	R8	42 00 00 HJ 35 81 50	〃 150KΩ	〃			
	R9	42 00 00 HJ 35 91 20	〃 1.2KΩ	〃			
	R10	42 00 00 HJ 35 81 00	〃 100KΩ	〃			
	R11	42 00 00 HJ 35 86 80	〃 680KΩ	〃			
	R12	42 00 00 HJ 35 91 00	〃 1MΩ	〃			
	R13 R14	42 00 00 HN 75 73 00	〃 30KΩ	〃			
	R15	42 00 00 HJ 35 62 20	〃 2.2KΩ	〃			
	R16	42 00 00 HJ 35 63 30	〃 3.3KΩ	〃			
	R17	42 00 00 HJ 35 51 00	〃 100Ω	〃			

※ : New Part (新部品)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
R18	42 00 00 HJ 35 61 20	Carbon Resistor ¼W 1.2KΩ	カーボン抵抗			
※ R19	42 00 00 HN 75 71 30	〃 〃 13KΩ	〃			
R20	42 00 00 HJ 35 62 20	〃 〃 2.2KΩ	〃			
R21	42 00 00 HJ 35 63 30	〃 〃 3.3KΩ	〃			
R22	42 00 00 HJ 35 54 70	〃 〃 470Ω	〃			
R23	42 00 00 HJ 35 51 00	〃 〃 100Ω	〃			
R24	42 00 00 HJ 35 61 20	〃 〃 1.2KΩ	〃			
R25 ~28	42 00 00 HJ 35 46 80	〃 〃 68Ω	〃			
R29	42 00 00 HZ 00 07 00	Metal Film Resistor, 1W, 2.7Ω	金属皮膜抵抗	QRXO16 T-2R7		
R30 R31	42 00 00 HJ 35 64 70	Carbon Resistor ¼W 4.7KΩ	カーボン抵抗			
R32 R33	42 00 00 HJ 35 61 00	〃 〃 1KΩ	〃			
R34	42 00 00 HJ 35 63 30	〃 〃 3.3KΩ	〃			
R35 R36	42 00 00 HJ 35 64 70	〃 〃 4.7KΩ	〃			
R37	42 00 00 HJ 35 51 00	〃 〃 100Ω	〃			
R38	42 00 00 HJ 35 84 70	〃 〃 470KΩ	〃			
R39	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R40	42 00 00 HJ 35 71 80	〃 〃 18KΩ	〃			
R41	42 00 00 HJ 35 71 50	〃 〃 15KΩ	〃			
R42	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R43	42 00 00 HJ 35 63 90	〃 〃 3.9KΩ	〃			
R44	42 00 00 HJ 35 71 80	〃 〃 18KΩ	〃			
R45	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R46	42 00 00 HJ 35 53 90	〃 〃 390Ω	〃			
R47	42 00 00 HN 75 93 30	〃 〃 3.3MΩ	〃			
R48	42 00 00 HJ 35 44 70	〃 〃 47Ω	〃			
R49	42 00 00 HJ 35 76 80	〃 〃 68KΩ	〃			
R50	42 00 00 HJ 35 66 80	〃 〃 6.8KΩ	〃			
R51	42 00 00 HJ 35 81 00	〃 〃 100KΩ	〃			
R52	42 00 00 HJ 35 72 70	〃 〃 27KΩ	〃			
R53	42 00 00 HJ 35 75 60	〃 〃 56KΩ	〃			
R54	42 00 00 HJ 35 88 20	〃 〃 820KΩ	〃			
R55	42 00 00 HJ 35 48 20	〃 〃 82Ω	〃			
R56	42 00 00 HJ 35 72 20	〃 〃 22KΩ	〃			
R57	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R58	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R59	42 00 00 HJ 35 81 50	〃 〃 150KΩ	〃			
R60	42 00 00 HJ 35 61 00	〃 〃 1KΩ	〃			
R61	42 00 00 HJ 35 72 00	〃 〃 22KΩ	〃			
R62	42 00 00 HJ 35 91 00	〃 〃 1MΩ	〃			
R63	42 00 00 HJ 35 61 00	〃 〃 1KΩ	〃			
R64	42 00 00 HG 30 54 70	〃 ½W 470Ω	〃			
R65	42 00 00 HJ 35 72 20	〃 ¼W 22KΩ	〃			
R66	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R67	42 00 00 HJ 35 72 20	〃 〃 22KΩ	〃			
R68	42 00 00 HJ 35 71 00	〃 〃 10KΩ	〃			
R69	42 00 00 HJ 35 83 90	〃 〃 390KΩ	〃			
R70	42 00 00 HJ 35 61 00	〃 〃 1KΩ	〃			
R71	42 00 00 HJ 35 83 90	〃 〃 390KΩ	〃			
R72 ~74	42 00 00 HJ 35 61 00	〃 〃 1KΩ	〃			
C1	42 00 00 FJ 24 64 70	Electrolytic Capacitor 4.7μF/25V	ケミコン			
C2 ~4	42 00 00 FJ 46 54 70	〃 0.47μF/50V	〃			
C5	42 00 00 FG 24 44 70	Ceramic Capacitor 50V 0.047μF	セラコン			
C6 C7	42 00 00 FG 71 13 30	〃 33PF	〃			

※ : New Part (新部品)

	Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	C8	42 00 00 FG 24 42 20	Ceramic Capacitor 50V 0.022μF	セラコン			
	C9	42 00 00 FA 41 44 70	Mylar Capacitor 50V 0.047μF	マイラーコン			
	C10	42 00 00 FG 24 41 00	Ceramic Capacitor 50V 0.01μF	セラコン			
	C11	42 00 00 FA 41 44 70	Mylar Capacitor 50V 0.047μF	マイラーコン			
	C12	42 00 00 FG 71 13 30	Ceramic Capacitor 50V 33PF	セラコン			
	C13	42 00 00 FG 24 41 00	〃 0.01μF	〃			
	C14	42 00 00 FG 71 13 30	〃 33PF	〃			
	C15	42 00 00 FJ 16 54 70	Electrolytic Capacitor 0.47μF/50V	ケミコン			
	C16	42 00 00 FA 41 51 00	Mylar Capacitor 50V 0.1μF	マイラーコン			
	C17	42 00 00 FJ 16 61 00	Electrolytic Capacitor 1μF/50V	ケミコン			
	C18	42 00 00 FA 41 31 00	Mylar Capacitor 50V 0.001μF	マイラーコン			
	C19	42 00 00 FG 71 31 00	Ceramic Capacitor 50V 0.001μF	セラコン			
	C20	42 00 00 FG 71 13 30	〃 33PF	〃			
	C21	42 00 00 FJ 14 71 00	Electrolytic Capacitor 10μF/25V	ケミコン			
	C22	42 00 00 FG 24 42 20	Ceramic Capacitor 50V 0.022μF	セラコン			
	C23	42 00 00 FJ 14 71 00	Electrolytic Capacitor 10μF/25V	ケミコン			
※		42 00 00 LX 00 00 10	Connector 6-Pin	コネクター	CMSP-3006		
※		42 00 00 LX 00 00 20	〃 15-Pin	〃	CMSP-3015		

※ : New Part (新部品)