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SERVICE MANUAL

798
STEREO TURNTABLE

SANSUI SR-636/838



SPECIFICATIONS

● SR-636

Type	Two-speed direct-driven
Speeds	33-1/3, 45 rpm
Fine speed adjustment range	±2.5%
Platter	Aluminum alloy die-cast 318 mm (12-9/16") diameter, 1.6 kg (3.5 lbs.)
Motor	20-pole brushless DC servo-type
Wow and flutter	less than 0.028% (W.R.M.S.)
S/N	better than 63 dB (IEC-B)
Rumble	better than 71 dB (DIN-B)
Tonearm	Statically-balanced S-shaped tubular type
Tonearm length	230 mm (9-1/16")
Overhang	16.1 mm (11/16")
Optimum cartridge weight	When the headshell supplied is employed 4 ~ 11 g
Dimensions	490 mm (19-5/16") W 167 mm (6-5/8") H 390 mm (15-3/8") D
Weight	12.8 kg (28.2 lbs) net 14.8 kg (32.6 lbs) packed
Power Consumption	7W (rated)
Cartridge	SV-43
Frequency response	10 ~ 20,000 Hz
Output voltage	3.3 mV per channel (1,000 Hz 50 mm/sec)
Load impedance	47 kΩ
Tracking force	2.0 g
Stylus	diamond (SN-43)

● SR-838

Type	Two-speed direct-driven
Speeds	33-1/3, 45 rpm
Fine speed adjustment range	±2.5%
Platter	Aluminum alloy die-cast 318 mm (12-9/16") diameter, 1.7 kg (3.7 lbs)
Motor	20-pole brushless DC servo-type (Quartz-servo)
Wow and flutter	less than 0.025% (W.R.M.S.)
S/N	better than 64 dB (IEC-B)
Rumble	better than 72 dB (DIN-B)
Tonearm	Statically-balanced S-shaped tubular type
Tonearm length	230 mm (9-1/16")
Overhang	16.1 mm (11/16")
Optimum cartridge weight	When the headshell supplied is employed 4 ~ 11 g (11 ~ 20.5 g with the sub-weight mounted)
Total weight including the headshell	23 ~ 32 g with the subweight mounted
Dimensions	490 mm (19-5/16") W 167 mm (6-5/8") H 390 mm (15-3/8") D
Weight	12.8 kg (28.2 lbs) net 14.8 kg (32.6 lbs) packed
Power Consumption	7W (rated)
Cartridge	SV-43
Frequency response	10 ~ 20,000 Hz
Output voltage	3.3 mV per channel (1,000 Hz 50 mm/sec)
Load impedance	47 kΩ
Tracking force	2.0 g
Stylus	diamond (SN-43)

● Design and specifications subject to change without notice for improvements.

Sansui

SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM

1) SR-636

Fig. 1-1

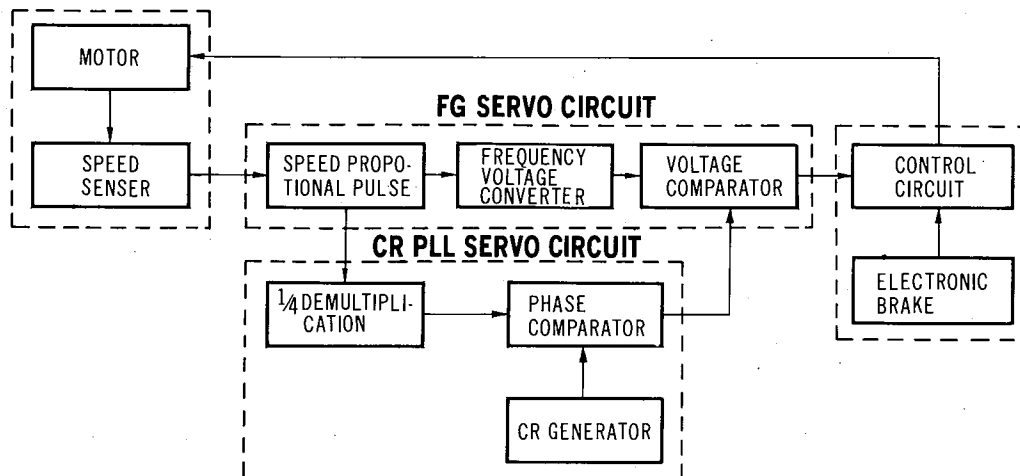
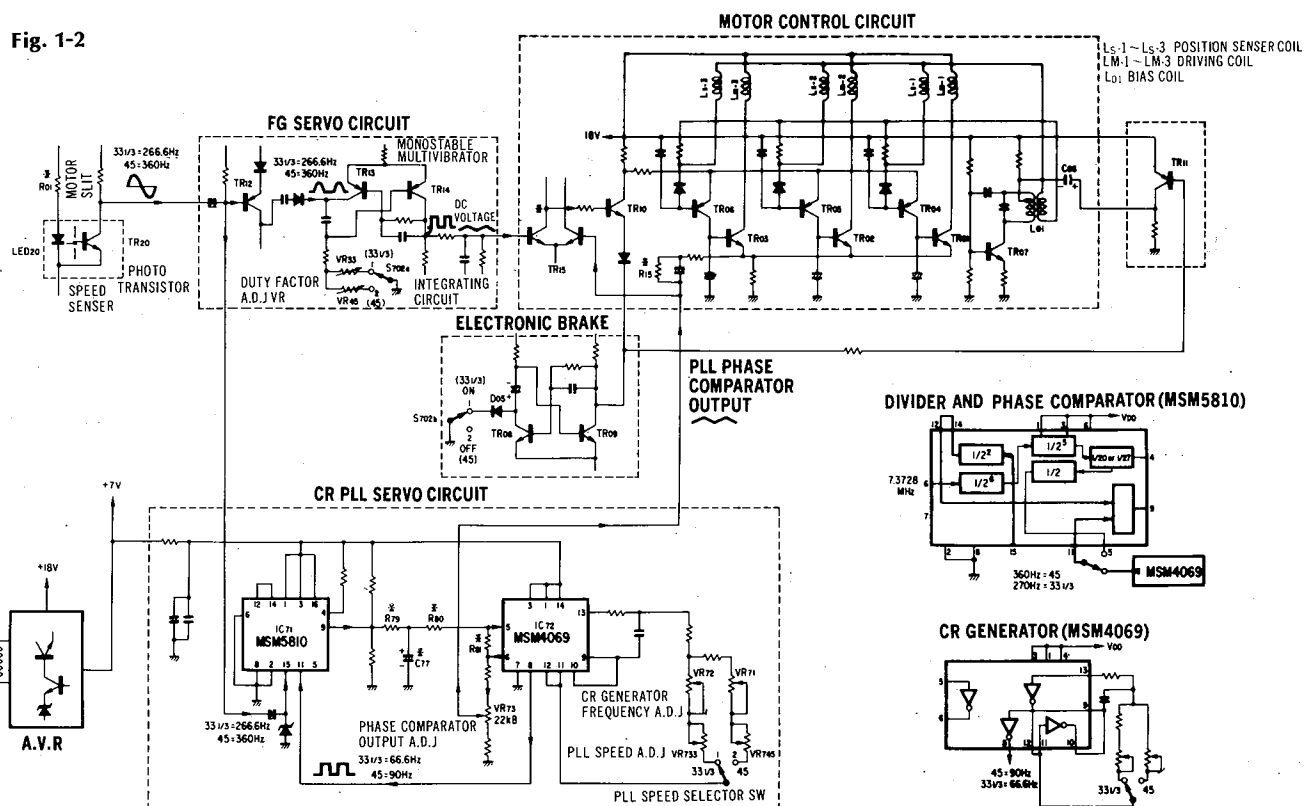


Fig. 1-2



◇SR-636, SR-838 Main Circuit

The electronic circuitry in this set is two servo circuits and a motor control circuit.

The servo circuit employs the PLL servo system and the speed control system (Frequency-Generator servo) together.

The F-G servo system is effective for the threshold characteristic and also control of PLL-Lock-out.

However, PLL servo system has an advantage against the influence by load fluctuation.

For this reason, this set employs both the F-G servo system and PLL servo system by which rotation fluctuation is always locked in the reference signal.

PLL servo circuit of the phase control system, is both CR generator and quartz generator used in this model.

2. OPERATION OF NEW CIRCUIT

1) The Function and Operation of MSM5810 (Fig. 2-1)

The MSM 5810 includes divider of PLL servo circuit, selector terminal of 1/20 (45 rpm) and 1/27 (33-1/3 rpm) and phase comparator.

A). Quartz PLL

1. Input signal 7.3728 MHz from quartz generator is added to the pin, No. 6, and is demultiplied as $1/2^6 \times 1/2^5 \times 1/2^0 \times 1/2$ (45 rpm) by passing through the divider; then, it is applied to phase comparator.
2. The pin No. 1, 2, 3, are selector terminal of dividing ratio from $1/2$ to $1/2^n$. By supplying VDD to pins No. 1, No. 3, and by grounding pin No. 2, $1/2^5$ of dividing ratio is obtained.
3. Divided output signal appears at pin No. 5, and it switches TR71 to light the neon lamp.
4. Since trigger pulse frequency changes with turntable revolution speed, the dividing ratio is necessary to shift accordingly to the turntable revolution speed; therefore by adding H level or L level to pin No. 4, the dividing ratio of $1/20$ or $1/27$ is selected.
5. A signal from speed sensor is supplied to pin No. 15, and after divided into $1/2$, the signal is supplied to phase comparator.

B). CR. PLL

1. From CR generator in MSM4069, the reference signal enters into the pin No. 11, of MSM5810.
2. A signal from speed sensor is supplied to pin No. 15 and after divided into $1/2$, the signal is supplied to phase comparator.
3. In quartz PLL, the revolution speed is locked by its generating frequency; however, in CR PLL, pitch is controllable by altering its generating frequency.

2) Frequency-voltage Converter Circuit (Fig. 2-2)

The frequency-voltage converter circuit is composed of a mono-stable multivibrator by TR13, TR14.

When trigger pulse detected by speed sensor is supplied to TR13, pulses which width are defined by time constant CR20, R22, R68, and VR33 (R22, VR45), appears at the collector of TR14 as the same number as input trigger pulses.

The volume of VR33 and VR45 are for duty factor adjustment to determine the "t", the pulse width.

With fluctuation of turntable revolution speed, the trigger pulse frequency occurred in a unit period varies.

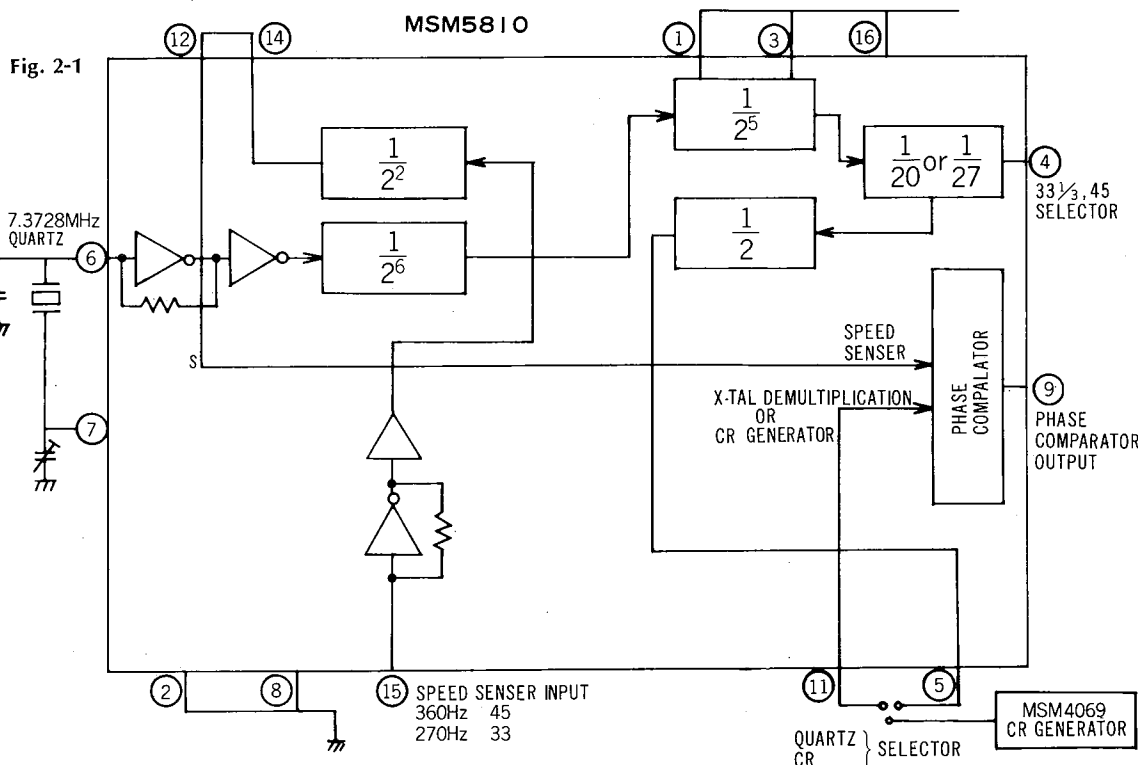
As the width "t" of the pulse is defined by above mentioned C, R, it would not change but term "T" in which the trigger occurs, would change.

Therefore, at the output of the next stage, integrating circuit, the proportioned D.C output to the trigger pulse frequency is obtained.

• Duty Factor

When a pulse of width "t" is occurring in a certain term "T", t/T is so called DUTY FACTOR.

$$\text{DUTY FACTOR (D)} = \frac{\text{PULSE WIDTH (t)}}{\text{TERM (T)}}$$



3) Electronic Brake (Fig. 2-3)

As turntables (platters) which are employed in direct drive system players, have great inertial moment, it requires certain time to settle the rotation when shifting the revolution speed from 45 rpm to 33-1/3 rpm.

To avoid above phenomenon, this model is developed to have Electronic Brake. The torque needed for the brake is obtained by reversing the revolving direction of motor to eliminate the capacitor C06 electrically from high frequency oscillator in the motor control circuit and by switching off the speed control transistor (TR10) to omit the servo control that the revolution torque is increased.

In fact, turntable platter would not begin reverse turn because of the inertial moment and time length of braking.

The circuit to eliminate the capacitor C06 electrically and to turn off the speed control transistor is monostable multivibrator and selector switch as shown in Fig. 2-3.

Operation

A circuit including TR08 and TR09 is a monostable multivibrator and usually its operation is in stable state with TR09 being ON. When TR09 is ON, TR10 functions normally and TR11 is ON. C06 and R20 are parallelly connected and functioning to TR11. When revolution speed is shifted from 45 rpm to 33-1/3 rpm, namely S702 is switched from 2 to 1, a minus trigger is supplied to monostable multivibrator.

At the same time, plus pulse defined by R13 and C11 is generated at the collector of TR09. By this pulse, the emitter voltage of TR10 is increased so that TR10 becomes not to function as speed control and the servo system does not function.

Since this pulse is supplied to the base of TR11 simultaneously, TR11 turns off and makes C06 not function completely.

When C06 is eliminated electrically, both reverse turn and torque increase by cutting off the servo system occur at once. Consequently, the brake functions only while the pulse is generated.

Reverse Revolution

At normal revolution, the direction is defined by relation between position sensor coil and magnet, position sensor coil and driving coil, and others. One of 3 position sensor coils functions successively and individually which turns on the switching transistors connected to position sensor coil to function driving coils. At reverse revolution, a signal wave having $90^\circ \sim 180^\circ$ of phase difference against standard wave is mixed to preceding standard wave by eliminating C06 electrically. Then the mixed wave is supplied to switching transistors.

Above function breaks the electrical balance of position sensor coils and its function becomes opposite; therefore, the position sensor coil which is normally ON turns OFF and other coils become ON. As a result, the opposite revolution torque for brake is obtained.

Fig. 2-2 MONOSTABLE MULTIVIBRATOR CIRCUIT

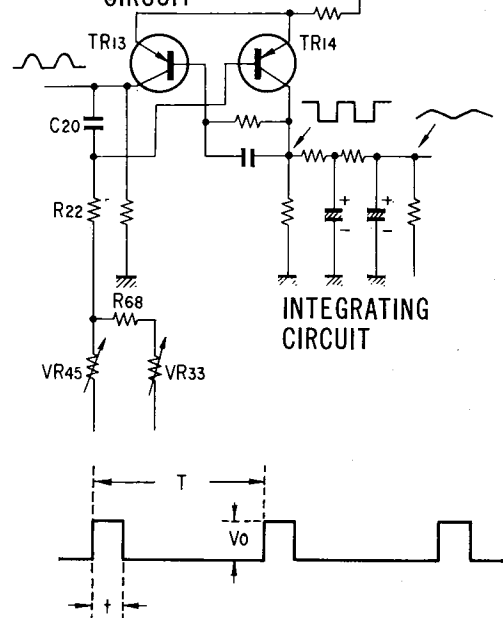
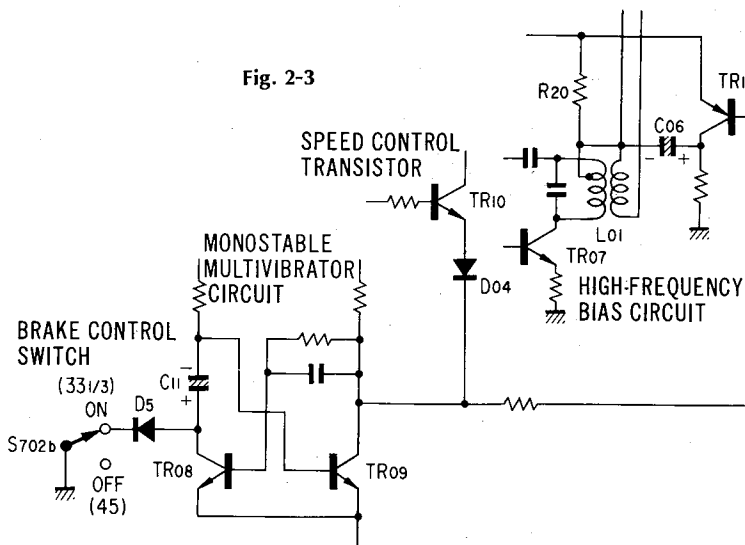


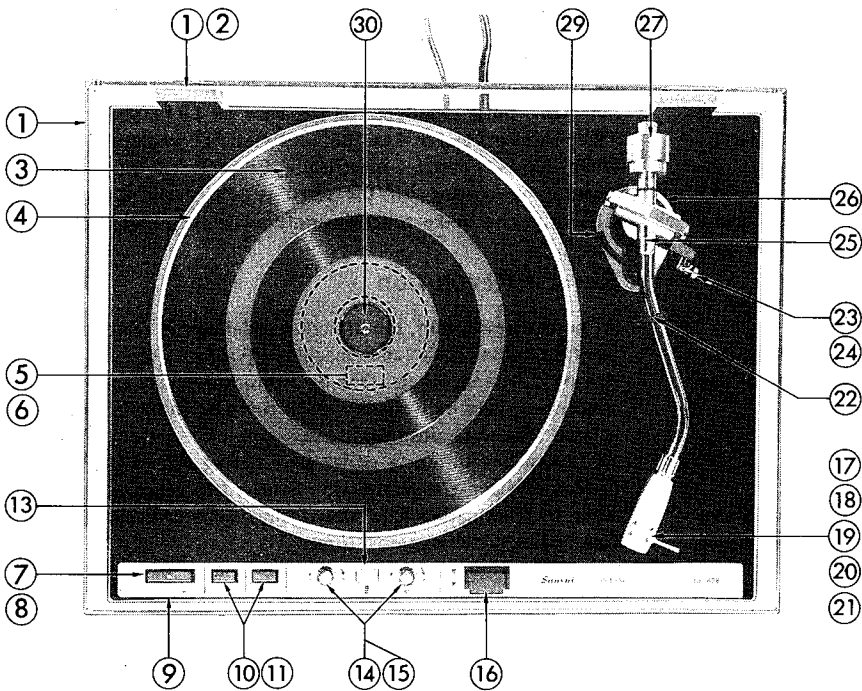
Fig. 2-3



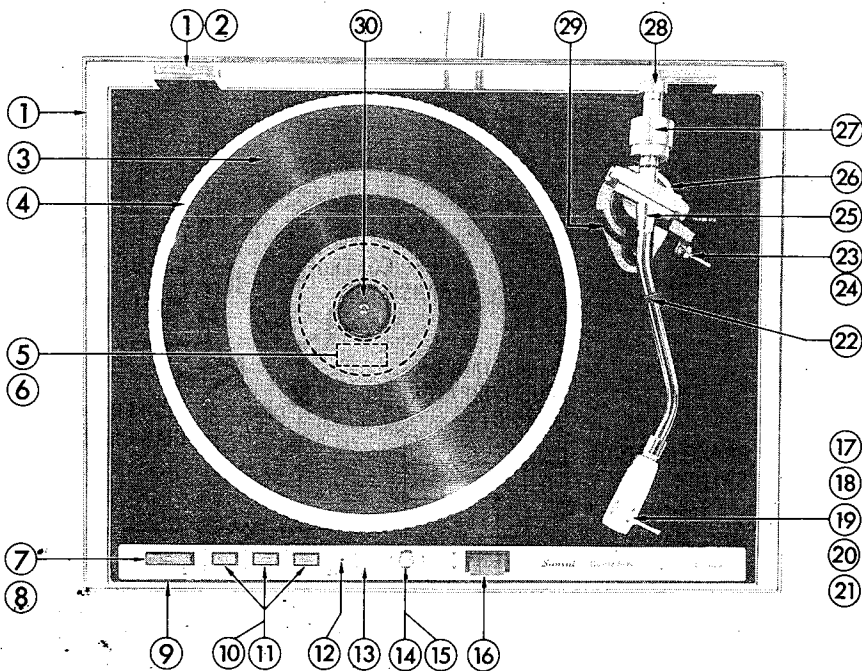
3. MECHANISM PARTS LOCATION AND PARTS LIST

1) Top View Parts List

● SR-636 <Top View> Fig. 1



● SR-838 <Top View> Fig. 2



NOTE:
AS to U.L., C.S.A., B.S., ES and XX marked in the Parts Lists, note the followings:
U.L., C.S.A. Approved parts used in the unit which is applicable to the U.S. and Canada under safety standard.
B.S. Approved parts used in the unit which is applicable to British under safety requirement.
E.U. Approved parts used in the unit which is applicable to Sweden, Denmark, Norway, Finland, West Germany, and Switzerland under safety requirement.
XX Parts used in the unit which is applicable to other countries excepting mentioned above.

* Parts unspecified such as CSA, UL, EU & XX in "Description" are common parts.

Parts List<SR-636/838 Top View>

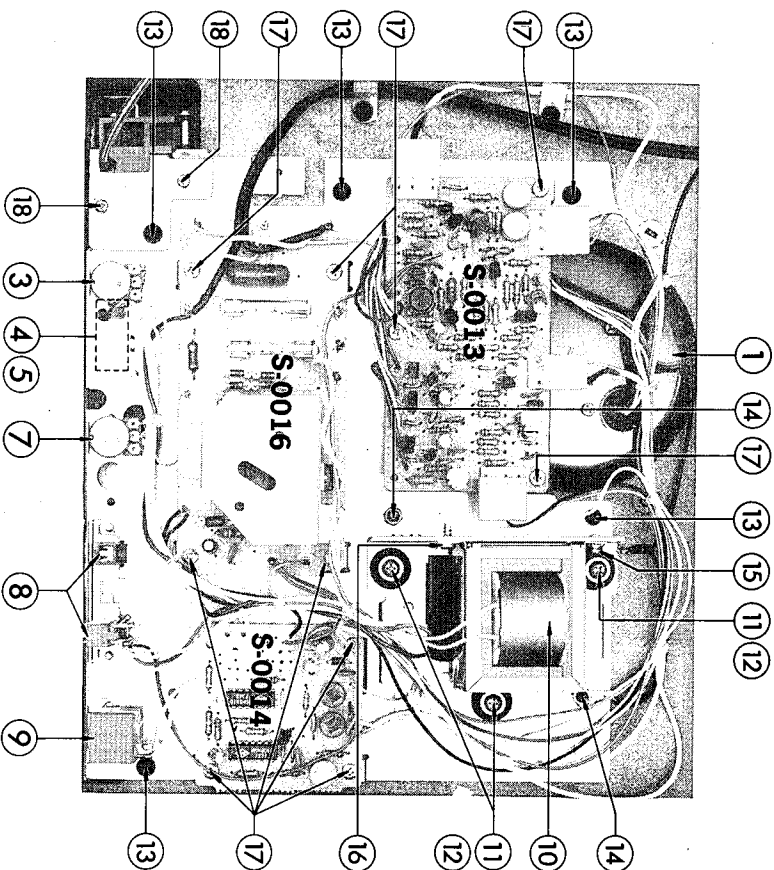
No.	Parts No.	Stock No.	Description
1	7012150		Dust Cover Ass'y
	6922320		Auto Hinge Plate, Dust Cover
	6922370		Auto Hinge, Dust Cover
	5502711		Rubber Cushion
	5102663		F Type Screw M4 X 10, Dust Cover
2	6922300		Auto Hing Lock Plate, Cabinet
3	5502741		Rubber Mat EU, CSA, BS,
	5502851		Rubber Mat XX, UL
4	6112202		Turntable (Platter) (SR-838 only)
	6112191		Turntable (Platter) (SR-636 only)
5	LD01 0319140		SR 106C L.E.D, Speed Sensor
6	TR20 0390010		PH 101 Photo Transistor
7	5322150		Push Button, Power Switch
8	5392201		Button Guide, Power Switch
9	5332090		Sansui Badge
10	5322160		Push Button, Selector, Quartz
11	5392190		Button Guide, Selector, Quartz
12	0319130		Quartz indicator L.E.D (SR-838 only)
13	5442020		Illuminator
14	5312280		Knob, Pitch-Control
15	5392210		Knob Guide, Pitch Control
16	5392220		Lever Guide, Lifter
17	6642250		Head Shell
18	4310340		Cartridge Ass'y (SV-45) XX
			(Stylus, Screw Ass'y, Stylus Cover)
19	4940220		Stylus (SN-43)
20	5012080		Stylus Cover
21	5192150		Screw Ass'y
22	6622270		Arm Rest Ass'y
23	6912610		I.F.C. Mechanical Ass'y
			(I.F.C. Weight, I.F.C. Shaft)
24	6912620		I.F.C. Thread Ass'y
25	7092710		Tonearm Ass'y
26	7092720		Arm Base Ass'y
	5172290		Base nut
	5192140		Hox Socket Screw M3 X 4, Arm Base
27	6912590		Main Weight
28	6912600		Sub Weight (SR-838 only)
29	7082310		Tonearm Guide Ass'y
			(Piston Hoxsocket Screw)
	5192130		Hox Socketscrew M4 X 0.7, Tonearm Guide
30	6172040		45 Adaptor

Abbreviations

1. Pan Head Tapping ScrewPT Type	10. Round Head Wood ScrewRH Type
2. Washer Head Tapping ScrewWT Type	11. Hex. Socket Setscrew ..SC Type
3. Pan Head ScrewP Type	12. Slot Type Setscrew ..SS Type
4. Pan Head SEMS A ScrewPSA Type	13. Binding Head SEMS B ScrewBSB Type
5. Pan Head SEMS B ScrewPSB Type	14. Spring WasherS Type
6. Binding Head SEMS F Screw ..BSF Type	15. Plain WasherP Type
7. Binding Head ScrewB TYPE	16. Retaining Ring (E Washer) ..E Type
8. Flat Counter Sunk Head Screw ..F Type	17. Toothed Lock Washer (External)TLE Washer
9. Flat Counter Sunk Wood ScrewFC Type	18. Wave Washer
	19. Hexagon Nut H Type Nut

2) Bottom View Parts List

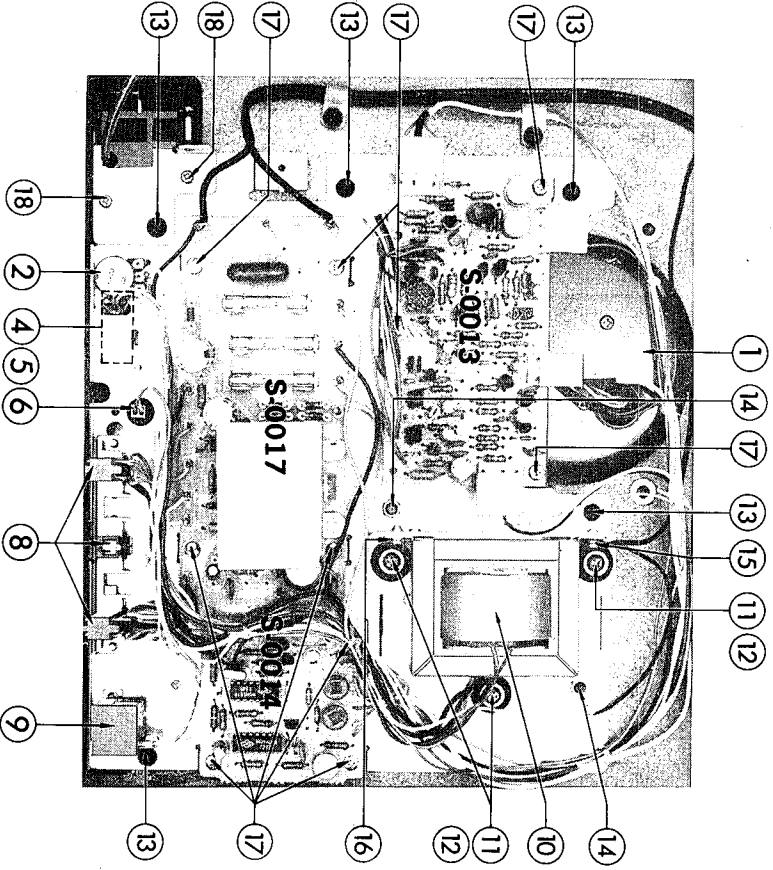
●SR-636<Bottom View> Fig. 3



Parts List<SR-636/838 Bottom View>

No. Parts No.	Stock No.	Description
1	4320540	D.D. Motor
2	VR201 1003310	Volume 50R12B, Pitch Control (SR-838 only)
3	VR245 1005110	Volume 50R12B, Pitch Control (45 rpm) (SR-636 only)
4	NL201 0410151	Neon Lamp NE-2HUMSA-8
5	5262260	Lamp Holder
6	7593402	LED Board Assy (S0021) (SR-838 only)
7	2410990	Mini Pin Assy
8	VR233 1003310	Volume 50R12B Pitch Control (33 rpm) (SR-636 only)
9	S202 1131460	Speed Selector Switch (SR-636 only)
10	S201 1131470	Speed Selector Switch (SR-838 only)
11	PT01 1131320	Power Switch XX, CSA, UL
12	4002640	Power Transformer EU, BS
13	4002642	Power Transformer CSA, UL
14	4002630	Power Transformer XX
15	4002634	Power Transformer EU, BS
16	5502632	Power Transformer UL, CSA
17	5502650	Flowing Rubber, Transformer
18	5162540	WT Type Screw, 3×13, Flowing Rubber
19	5109905	WT Type Screw, 3×12, Chassis
20	5110261	Hexagon nut M4×3.2, Chassis
21	5107862	BSA Type Screw M4×6, Power Transformer
22	512256	TLE Type washer 46
23	5109122	BT Type Screw 3×8, Power Transformer
24	5101043	B Type Screw M3×6, Circuit Board
25	5107744	P38 Type Screw M3×6, Lifter Cam Assy

●SR-838<Bottom View> Fig. 4



◆ Main Parts Replacement

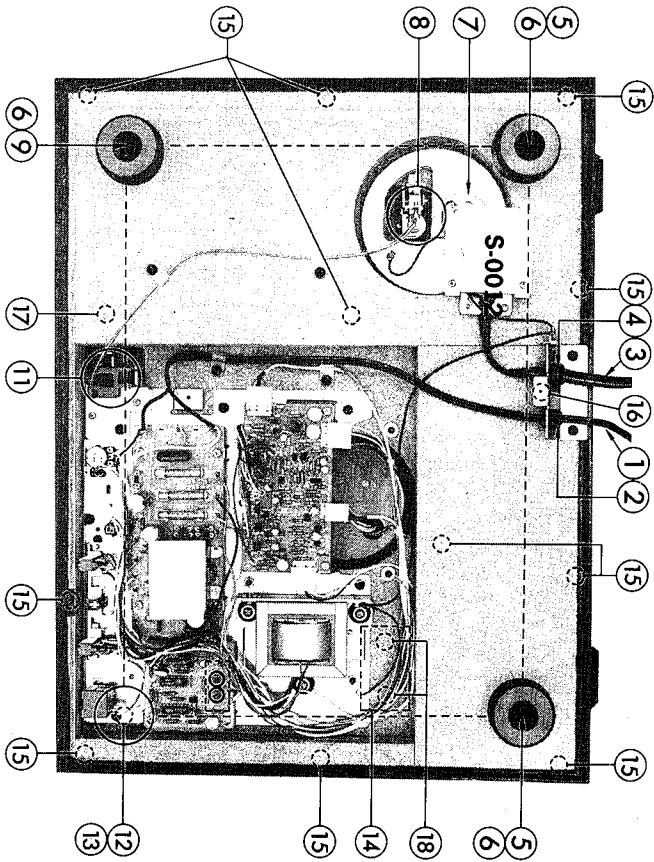
- 1) Pitch Control VR, Speed Selector SW, PowerSW. Quartz Indicator, Neon Lamp.
 - A. Pull the Pitch Control VR Knob to remove.
 - B. Remove the screws No. 13, No. 18 and Nut No. 14 in Fig. 3, 4.
 - C. Lift the chassis (Pay attention not to hurt the wires)
 - D. Each Parts is now interchangeable individually.
- 2) Tone arm Ass'y
 - A. Loosen the Hex screw beside Lifter mechanical Assy, No. 8 in Fig. 5.
 - B. Take off the Lifter mechanical Assy.
 - C. Remove the shield plate over S-0012.
 - D. Disconnect the Lead wires soldered on S-0012.
 - E. Remove the Base Nut No. 7 in Fig. 5.
 - F. Pull the Tone arm Assy upward.
- 3) Insulators (Rubber Leg on bottom plate)

Since pressure on each insulator differs at each corner, the shape of insulators, spring and fixing screws are different.

In Fig. 5, No. 5, 9, 12 indicate insulators.

3) Bottom View Parts List

Fig. 5



Parts List<SR-636/838 Bottom View>

No. Parts No.	Stock No.	Description
1	3800420, 1	Power Cord XX, CSA, UL
2	3800430	Power Cord BS
3	3910600	Strain Relief (5.2φ), Power Cord
4	3810290	Output Cord
5	3910570	Strain Relief (8.2φ), Output Cord
6	7072040	Insulator (D)
7	5162620	WT Type Screw 3×1.6, Insulator
8	5172290	Base nut, Arm Base Assy
9	7062320	Lifter Mechanical Assy
10	5242780	Lifter Bracket
11	5242740	Lifter Plate
12	6903010	Platespring, Lifter
13	7072070	Spring, Lifter
14	7072400	Insulator (G)
15	7072030	Lifter Cam Assy, (include control wire)
16	5107746	Insulator (C)
17	5052120	P38 Type Screw, M3×12, Insulator (C)
18	5108445	Selector Cover
19	5107744	WT Type Screw 3×12, Bottom plate
20	5108445	BSB Type Screw M3×6, Bottom plate
21	5109943	PT Type Screw 3×12, Bottom plate
22	5109943	B Type Screw M3×6, Selector Cover

With units sold in U.S.A., Canada and certain European countries, no cartridge is provided.

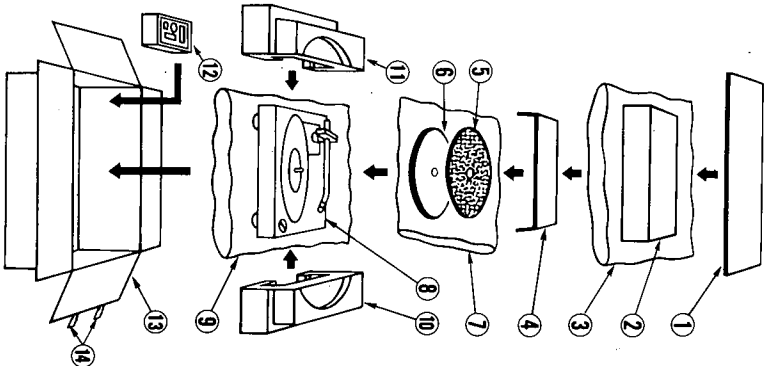
CSA model	Cartridge	Remarks
UL model	None	Stamped E on carton case
Audio club	None	Stamped E on carton case
BS model	None	Stamped E on carton case
EU model	None	Stamped E on carton case
XX model	SV-43	No marks on carton case

4. PACKING LIST

No. Parts No.	Stock No.	Description
1	9012280	Protector Sheet, upper
2	7012150	Dust Cover
3	9112220	Polyethylene Bag
4	9012300	Protector Sheet, turntable
5	{5502741	Rubber Mat EU, CSA, BS
6	{5502851	Rubber Mat XX, UL
7	{6112191	Turntable (Platter), (SR-636 only)
8	{6112202	Turntable (Platter), (SR-838 only)
9	9112210	Polyethylene Bag, turntable
10	9112210	Turntable Unit
11	9082093	Polyethylene Bag, turntable unit
12	9082102	Styrofoam Packing, front
13	9002680	Styrofoam Packing, back
14	9002760	Carton Case (SR-838 only)
15	5996080	Carton Case (SR-636 only)
16		Curl Stopper

5. ACCESSORY PARTS LIST

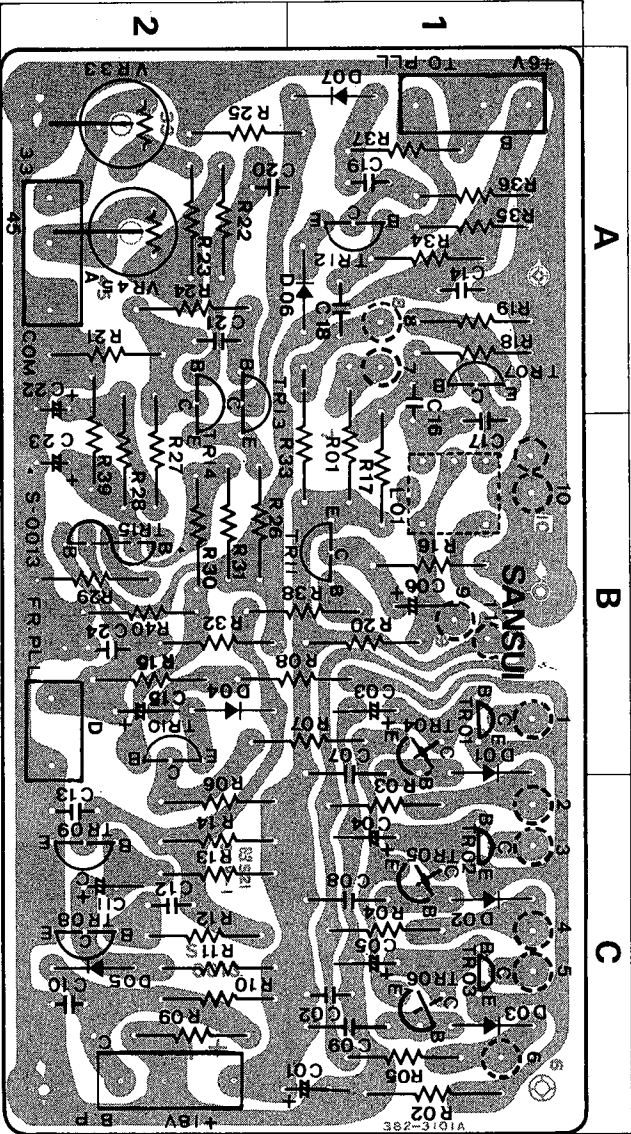
No. Parts No.	Stock No.	Description
1	5192082	Hexagon Wrench
2	9406022	Polishing Cloth
3	9203050	Operating Instruction (SR-838)
4	9203580	Operating Instruction (SR-636)
5	9234140	Schematic Diagram (SR-838)
6	9232180	Schematic Diagram (SR-636)



6. PARTS LOCATION & PARTS LIST

1) S-0013 Motor Control Circuit Board (Stock No. 7595771 SR-636/SR-838)

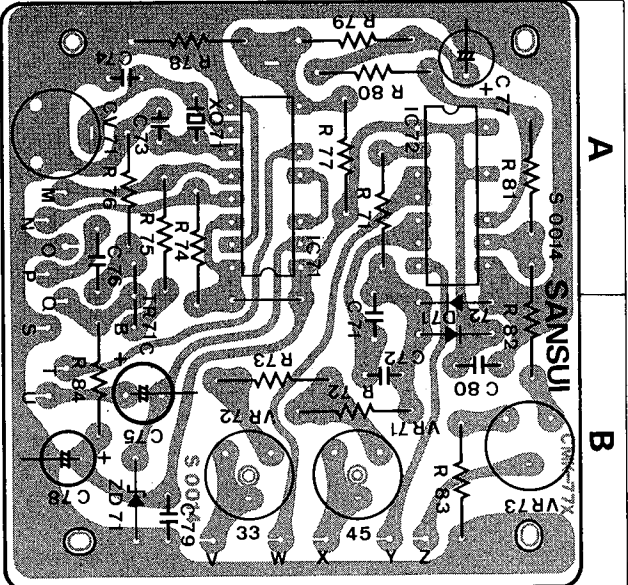
Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the common parts list for capacitors & resistors which was appended previously to each Sansui Manual.



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR1-03	0308590-2	25D471 (M.L.K.)	1B, 1C	C10	0656223	22000pF 25V C.C.	2C
TR1-04	0306860-1	25A733 (F.G.)	1B, 1C	C14	0656223	22000pF 50V P.C.	1A
TR1-05	0306951-3	25C945 (G.P.K.)	1A, 1C	C20	0652103	10000pF 50V P.C.	2A
TR1-06	0306952	25C945 (F.)	Transition	C24	0656223	22000pF 25V C.C.	2B
TR1-12	0306860-1	25A733 (F.G.)	1B, 1A	R21	0200921	820Ω	1C
TR1-14	0306860	25A733 (F.)	2A	R25	0200102	1kΩ	2A
TR1-15	0306860	25C1583 (G.)	2B	R26	0200122	1.2kΩ	2A
TR1-16	0311050	15953 Diode	1B	R27	0200152	1.5kΩ	1B
C22	0656223	22000pF 25V C.C.	1C	TR20	0390010	PH101 Transistor	1B

2) S-0014 PLL Servo Circuit Board (Stock No. 7595371 SR-636) (Stock No. 7595381 SR-838)



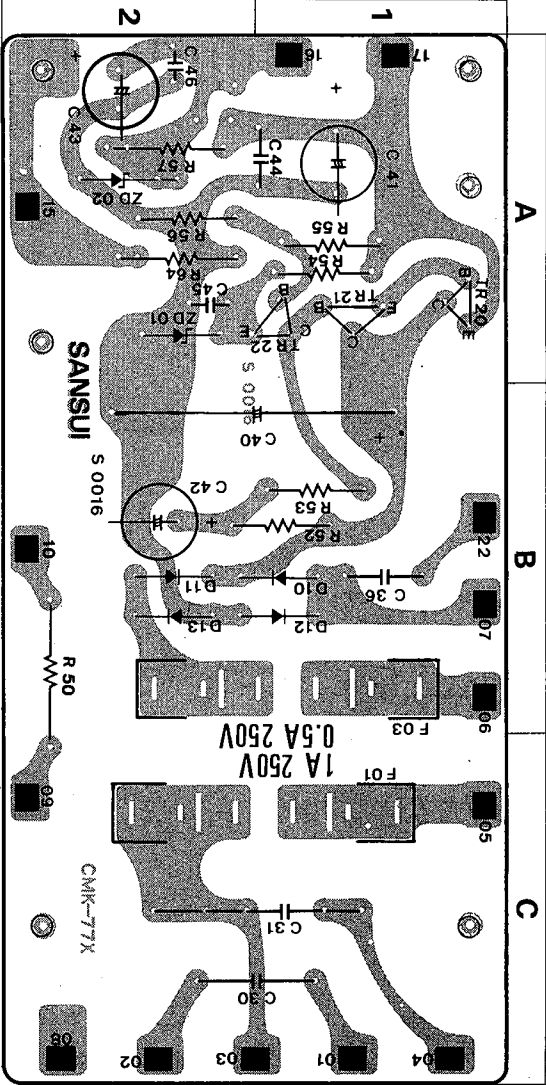
Parts List <SR-636>

Parts No.	Stock No.	Description	Position
IC1	0306560	MSM46810 IC	A
IC2	0306570	MSM46810 IC	A
IC3	0306570	MSM46810 IC	A
IC4	0306570	MSM46810 IC	A
IC5	0306570	MSM46810 IC	A
IC6	0306570	MSM46810 IC	A
IC7	0306570	MSM46810 IC	A
IC8	0306570	MSM46810 IC	A
IC9	0306570	MSM46810 IC	A
IC10	0306570	MSM46810 IC	A
IC11	0306570	MSM46810 IC	A
IC12	0306570	MSM46810 IC	A
IC13	0306570	MSM46810 IC	A
IC14	0306570	MSM46810 IC	A
IC15	0306570	MSM46810 IC	A
IC16	0306570	MSM46810 IC	A
IC17	0306570	MSM46810 IC	A
IC18	0306570	MSM46810 IC	A
IC19	0306570	MSM46810 IC	A
IC20	0306570	MSM46810 IC	A
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IC24	0306570	MSM46810 IC	A
IC25	0306570	MSM46810 IC	A
IC26	0306570	MSM46810 IC	A
IC27	0306570	MSM46810 IC	A
IC28	0306570	MSM46810 IC	A
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IC30	0306570	MSM46810 IC	A
IC31	0306570	MSM46810 IC	A
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IC37	0306570	MSM46810 IC	A
IC38	0306570	MSM46810 IC	A
IC39	0306570	MSM46810 IC	A
IC40	0306570	MSM46810 IC	A
IC41	0306570	MSM46810 IC	A
IC42	0306570	MSM46810 IC	A
IC43	0306570	MSM46810 IC	A
IC44	0306570	MSM46810 IC	A
IC45	0306570	MSM46810 IC	A
IC46	0306570	MSM46810 IC	A
IC47	0306570	MSM46810 IC	A
IC48	0306570	MSM46810 IC	A
IC49	0306570	MSM46810 IC	A
IC50	0306570	MSM46810 IC	A
IC51	0306570	MSM46810 IC	A
IC52	0306570	MSM46810 IC	A
IC53	0306570	MSM46810 IC	A
IC54	0306570	MSM46810 IC	A
IC55	0306570	MSM46810 IC	A
IC56	0306570	MSM46810 IC	A
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IC58	0306570	MSM46810 IC	A
IC59	0306570	MSM46810 IC	A
IC60	0306570	MSM46810 IC	A
IC61	0306570	MSM46810 IC	A
IC62	0306570	MSM46810 IC	A
IC63	0306570	MSM46810 IC	A
IC64	0306570	MSM46810 IC	A
IC65	0306570	MSM46810 IC	A
IC66	0306570	MSM46810 IC	A
IC67	0306570	MSM46810 IC	A
IC68	0306570	MSM46810 IC	A
IC69	0306570	MSM46810 IC	A
IC70	0306570	MSM46810 IC	A
IC71	0306570	MSM46810 IC	A
IC72	0306570	MSM46810 IC	A
IC73	0306570	MSM46810 IC	A
IC74	0306570	MSM46810 IC	A
IC75	0306570	MSM46810 IC	A
IC76	0306570	MSM46810 IC	A
IC77	0306570	MSM46810 IC	A
IC78	0306570	MSM46810 IC	A
IC79	0306570	MSM46810 IC	A
IC80	0306570	MSM46810 IC	A
IC81	0306570	MSM46810 IC	A
IC82	0306570	MSM46810 IC	A
IC83	0306570	MSM46810 IC	A
IC84	0306570	MSM46810 IC	A
IC85	0306570	MSM46810 IC	A
IC86	0306570	MSM46810 IC	A
IC87	0306570	MSM46810 IC	A
IC88	0306570	MSM46810 IC	A
IC89	0306570	MSM46810 IC	A
IC90	0306570	MSM46810 IC	A
IC91	0306570	MSM46810 IC	A
IC92	0306570	MSM46810 IC	A
IC93	0306570	MSM46810 IC	A
IC94	0306570	MSM46810 IC	A
IC95	0306570	MSM46810 IC	A
IC96	0306570	MSM46810 IC	A
IC97	0306570	MSM46810 IC	A
IC98	0306570	MSM46810 IC	A
IC99	0306570	MSM46810 IC	A
IC100	0306570	MSM46810 IC	A

Parts List <SR-838>

Parts No.	Stock No.	Description	Position
TR1	0306551-3	25C945 (G.P.K.) Transistor	A, B
IC1	0306560	MSM46810 IC	A
IC2	0306570	MSM46810 IC	A
IC3	0306570	MSM46810 IC	A
IC4	0306570	MSM46810 IC	A
IC5	0306570	MSM46810 IC	A
IC6	0306570	MSM46810 IC	A
IC7	0306570	MSM46810 IC	A
IC8	0306570	MSM46810 IC	A
IC9	0306570	MSM46810 IC	A
IC10	0306570	MSM46810 IC	A
IC11	0306570	MSM46810 IC	A
IC12	0306570	MSM46810 IC	A
IC13	0306570	MSM46810 IC	A
IC14	0306570	MSM46810 IC	A
IC15	0306570	MSM46810 IC	A
IC16	0306570	MSM46810 IC	A
IC17	0306570	MSM46810 IC	A
IC18	0306570	MSM46810 IC	A
IC19	0306570	MSM46810 IC	A
IC20	0306570	MSM46810 IC	A
IC21	0306570	MSM46810 IC	A
IC22	0306570	MSM46810 IC	A
IC23	0306570	MSM46810 IC	A
IC24	0306570	MSM46810 IC	A
IC25	0306570	MSM46810 IC	A
IC26	0306570	MSM46810 IC	A
IC27	0306570	MSM46810 IC	A
IC28	0306570	MSM46810 IC	A
IC29	0306570	MSM46810 IC	A
IC30	0306570	MSM46810 IC	A
IC31	0306570	MSM46810 IC	A
IC32	0306570	MSM46810 IC	A
IC33	0306570	MSM46810 IC	A
IC34	0306570	MSM46810 IC	A
IC35	0306570	MSM46810 IC	A
IC36	0306570	MSM46810 IC	A
IC37	0306570	MSM46810 IC	A
IC38	0306570	MSM46810 IC	A
IC39	0306570	MSM46810 IC	A
IC40	0306570	MSM46810 IC	A
IC41	0306570	MSM46810 IC	A
IC42	0306570	MSM46810 IC	A
IC43	0306570	MSM46810 IC	A
IC44	0306570	MSM46810 IC	A
IC45	0306570	MSM46810 IC	A
IC46	0306570	MSM46810 IC	A
IC47	0306570	MSM46810 IC	A
IC48	0306570	MSM46810 IC	A
IC49	0306570	MSM46810 IC	A
IC50	0306570	MSM46810 IC	A
IC51	0306570	MSM46810 IC	A
IC52	0306570	MSM46810 IC	A
IC53	0306570	MSM46810 IC	A
IC54	0306570	MSM46810 IC	A
IC55	0306570	MSM46810 IC	A
IC56	0306570	MSM46810 IC	A
IC57	0306570	MSM46810 IC	A
IC58	0306570	MSM46810 IC	A
IC59	0306570	MSM46810 IC	A
IC60	0306570	MSM46810 IC	A
IC61	0306570	MSM46810 IC	A
IC62	0306570	MSM46810 IC	A
IC63	0306570	MSM46810 IC	A
IC64	0306570	MSM46810 IC	A
IC65	0306570	MSM46810 IC	A
IC66	0306570	MSM46810 IC	A
IC67	0306570	MSM46810 IC	A
IC68	0306570	MSM46810 IC	A
IC69	0306570	MSM46810 IC	A
IC70	0306570	MSM46810 IC	A
IC71	0306570	MSM46810 IC	A
IC72	0306570	MSM46810 IC	A
IC73	0306570	MSM46810 IC	A
IC74	0306570	MSM46810 IC	A
IC75	0306570	MSM46810 IC	A
IC76	0306570	MSM46810 IC	A
IC77	0306570	MSM46810 IC	A
IC78	0306570	MSM46810 IC	A
IC79	0306570	MSM46810 IC	A
IC80	0306570	MSM46810 IC	A
IC81	0306570	MSM46810 IC	A
IC82	0306570	MSM46810 IC	A
IC83	0306570	MSM46810 IC	A
IC84	0306570	MSM46810 IC	A
IC85	0306570	MSM46810 IC	A
IC86	0306570	MSM46810 IC	A
IC87	0306570	MSM46810 IC	A
IC88	0306570	MSM46810 IC	A
IC89	0306570	MSM46810 IC	A
IC90	0306570	MSM46810 IC	A
IC91	0306570	MSM46810 IC	A
IC92	0306570	MSM46810 IC	A
IC93	0306570	MSM46810 IC	A
IC94	0306570	MSM46810 IC	A
IC95	0306570	MSM46810 IC	A
IC96	0306570	MSM46810 IC	A
IC97	0306570	MSM46810 IC	A
IC98	0306570	MSM46810 IC	A
IC99	0306570	MSM46810 IC	A
IC100	0306570	MSM46810 IC	A

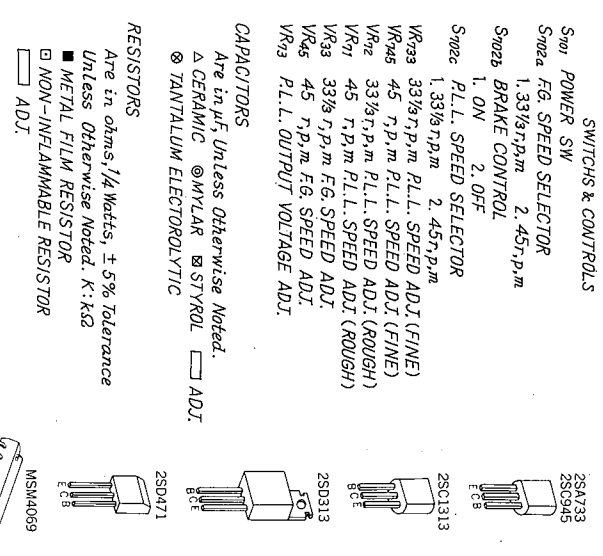
3) S-0016 Power Supply Circuit Board (Stock No. 7502461 XX, 7502463 EU, 7502444 CSA, 7502448 UL, 7502469 BS) (SR-636 only)



Parts List

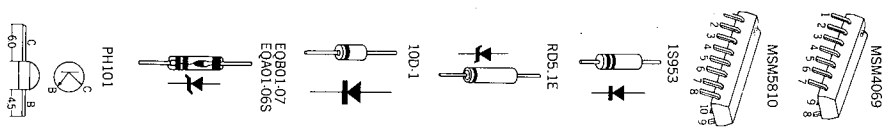
Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR30	0306931-3	25D134L (D, E, F)	1A	C31	0605357	0.033pF 250V M.C.	1C	R57	0211391	390D 1W N.L.E.	2A
TR31	0306951-3	25C945 (G, P, K)	Transition	C40	0656473	4700pF 50V E.C.	1, 2B	F01	{0432210	0.5A 250V AC fuse XX, CSA, UL, 1, 2C	
TR32	0306970-2	25C3145 (G, G, H)	1A	C44	0656473	4700pF 25V E.C.	1A		800ma 250V AC fuse EL, BS.		
D10+3	0310340	10D1 Diode	1, 2B	C5, 46	0657223	22000pF 50V C.C.	2A	F03	{0432220	1A 250V AC fuse XX, CSA, UL, 1, 2B	
ZD31	0316580	R05.E Zener Diode	2A	R50	33kD 1W N.L.E. EL, BS.		2B		800ma 250V AC fuse EL, BS.		
ZD32	E0801-07	Zener Diode	2A		{0211123	12kD 1W N.L.E. XX, CSA, UL					

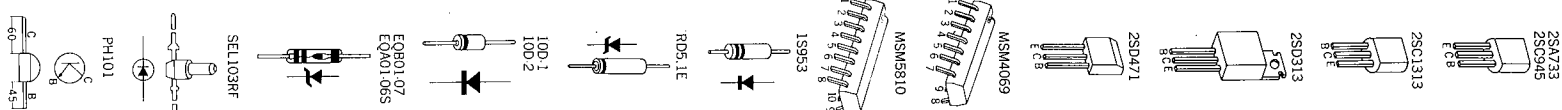
* La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
* Les changements de spécifications ne sont pas garantis.
* Les modifications de spécifications ne sont pas garanties.
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Each D.C. voltage measured by the instruments described below shows the nominal value in volts at 33 1/3 rpm.

Measuring instruments
Volt Meter DC20K2V, AC1K3V
Oscilloscope 5MHz





8. ADJUSTMENTS

1) SR-838

Please complete these adjustment below when replacing volumes, C, R, and ICs or when the strobo marking pattern would not synchronize despite of turning the adjustment knob on panel. For this adjustment, see the unit horizontally and mount the turntable platter.

A. Adjustment with oscilloscope

STEP	SELECTOR SW	QUARTZ SW	ADJUST	ADJUST FOR	REMARKS
1	33-1/3	ON	VR73 (S0014)	Strobo marking pattern appears to standstill.	
2	33-1/3	ON	VR33 (S0013)	Set the waveform on oscilloscope to adjusted one as Fig. 2.	Connect oscilloscope as Fig. 1.
3	45	ON	VR45 (S0013)	Same as above	Same as above
4	33-1/3	OFF	VR701 (control knob) on panel	Center Position	
5	33-1/3	OFF	VR72 (S0014)	Strobo marking pattern appears to standstill.	
6	45	OFF	VR71 (S0014)	Same as above	

B. Adjustment without oscilloscope

If unable to adjust when QUARTZ switch is turned OFF, complete adjustment (A) instead of (B).

STEP	SELECTOR SW	QUARTZ SW	ADJUST	ADJUST FOR	REMARKS
1	33-1/3	ON	VR73 (S0014)	Strobo marking pattern appears to standstill.	
2	33-1/3	ON	VR33 (S0013)	DC 1.4V	Connect a voltmeter to D terminal on S0013 (Fig. 1).
3	45	ON	VR45 (S0013)	DC 1.4V	Same as above
4	33-1/3	OFF	VR701 (Control knob) on panel	Center position	
5	33-1/3	OFF	VR72 (S0014)	Strobo marking pattern appears to standstill.	
6	45	OFF	VR71 (S0014)	Same as above	

Fig. 1

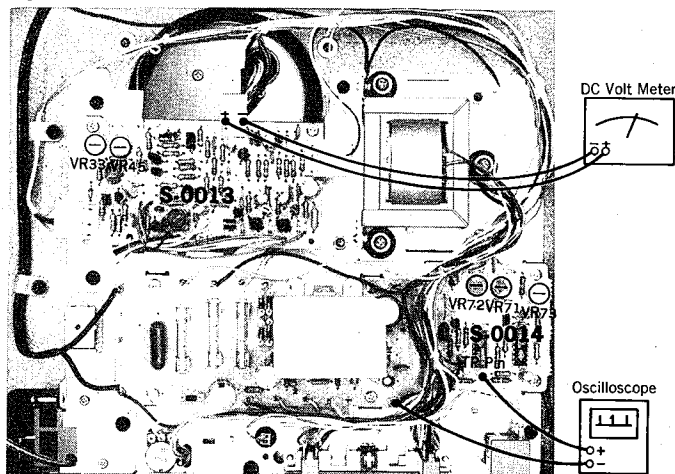
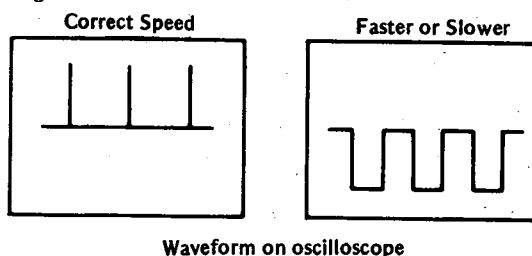


Fig. 2



Waveform on oscilloscope

2) SR-636

For adjustment, set the unit horizontally and attach the turntable platter.

A. Adjustment in case of replacing Parts except IC MSM4069, R71, R72, R73, C71, C72, VR71, VR72, VR733 and VR745 on circuit board S0014.

1) Adjustment with oscilloscope

STEP	SELECTOR SW	ADJUST FOR	ADJUST FOR	REMARKS
1	33-1/3	VR73 (S0014)	Storobo marking pattern appears to standstill.	
2	33-1/3	VR33 (S0013)	Set the waveform on oscilloscope to adjusted one as Fig. 2.	Connect oscilloscope as Fig. 1.
3	45	VR45 (S0013)	Same as above	Same as above

2) Adjustment without oscilloscope

STEP	SELECTOR SW	ADJUST FOR	ADJUST FOR	REMARKS
1	33-1/3	VR73 (S0014)	Storobo marking pattern appears to standstill.	
2	33-1/3	VR33 (S0013)	DC 1.4V	Connect a volt meter to D terminal on S0013 (Fig. 1).
3	45	VR45 (S0013)	DC 1.4V	Same as above

B. Adjustment in case of replacing some from parts of IC MSM 4049, R71, R72, R73, C71, C72, VR71, VR72, VR733 and VR745 on circuit board S0014.

STEP	SELECTOR SW	ADJUST	ADJUST FOR
1	33-1/3	VR733, VR745 (Control knob on panel)	Center position
2	33-1/3	VR72 (S0014)	Storobo marking pattern appears to standstill.
3	45	VR71 (S0014)	Same as above



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