

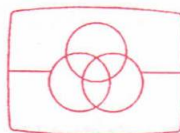
Service Manual

FM/LW/MW/FM STEREO RADIO WITH CASSETTE DECK
AND RECORD PLAYER

Stereo Music Centre

SG-X10

(E), (ES), (UK), (MY), (EW)



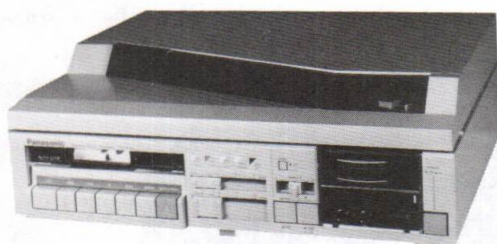
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(E): Black Type
(ES): Silver Type
(EW): White Type
(UK): United Kingdom
(MY): Military



Specifications

AMPLIFIER SECTION

Power Output	MPO: 5W x 2 (THD 5%, 8Ω)
	RMS: 4W x 2 (THD 5%, 8Ω)
	One channel driven
	RMS: 3W x 2 (THD 5%, 8Ω)
	Both channel driven
Output Impedance.....	8Ω
Input sensitivity & Impedance:	
Mic	1.6 mV, 20 kΩ
Tone Control.....	+4 dB, -15 dB at 10 kHz

FM TUNER SECTION

Frequency Range	87.5 MHz ~ 108 MHz
Intermediate Frequency (IF)	10.7 MHz
Sensitivity	6 μV (S/N 26 dB, Mod. 40 kHz) (DIN)
Image Ratio	38 dB (98 MHz)
Signal/Noise Ratio	54 dB (at 1 kHz 60 dB, 40 kHz)
Distortion	Mono: 0.3% (at 1 kHz 60 dB, 40 kHz)
	Stereo: 0.5% (at 1 kHz 60 dB, 40 kHz)
Stereo Separation.....	40 dB (at 1 kHz 60 dB, 40 kHz)

AM TUNER SECTION

Frequency Range	MW: 525 kHz ~ 1605 kHz
	(571 m ~ 187 m)
	LW: 150 kHz ~ 350 kHz
	(2000 m ~ 857 m)
Intermediate Frequency (IF)	468 kHz (U.K.),
	450 kHz (Except U.K.)
Sensitivity	MW: 200 μV/m (1 MHz)
	LW: 500 μV/m (350 kHz)
Image Ratio	MW: 35 dB (1 MHz)
	LW: 45 dB (350 kHz)

TAPE DECK SECTION

Deck System	Auto-Stop Cassette System with Pause Control
Track System.....	4-Track, 2-Channel
Recording System	AC Bias (50 kHz)
Erasing System.....	AC Erase (50 kHz)
Tape Speed.....	4.75 cm/sec. (1-7/8 i.p.s.)
Frequency Response	50 Hz ~ 12 kHz
Wow & Flutter	0.2% (WRMS)
Signal/Noise Ratio.....	40 dB (DIN)

PHONO SECTION

Turntable System	Belt Drive, Automatic Turntable
Turntable Size.....	28 cm (11")
Turntable Speed	33-1/3 rpm and 45 rpm
Phono Motor	Electro Governor DC Motor
Cartridge.....	Ceramic Cartridge (EPC 13STH)
Stylus	Sapphire (EPS41ST)
Stylus Pressure.....	6g ± 1g

Power Consumption.....

Power Supply	28W
	AC 110V, 120V, 220V, 240V, 50/60 Hz
	(U.K., Military only)

Power Supply.....

	AC 220V, 50/60 Hz (Except U.K., Military)
Dimensions (W x H x D).....	375 mm x 136 mm x 327 mm
	(14-49/64") x (5-23/64") x (12-7/8")

Weight.....

	4 kg (8.8 lbs.)
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Panasonic

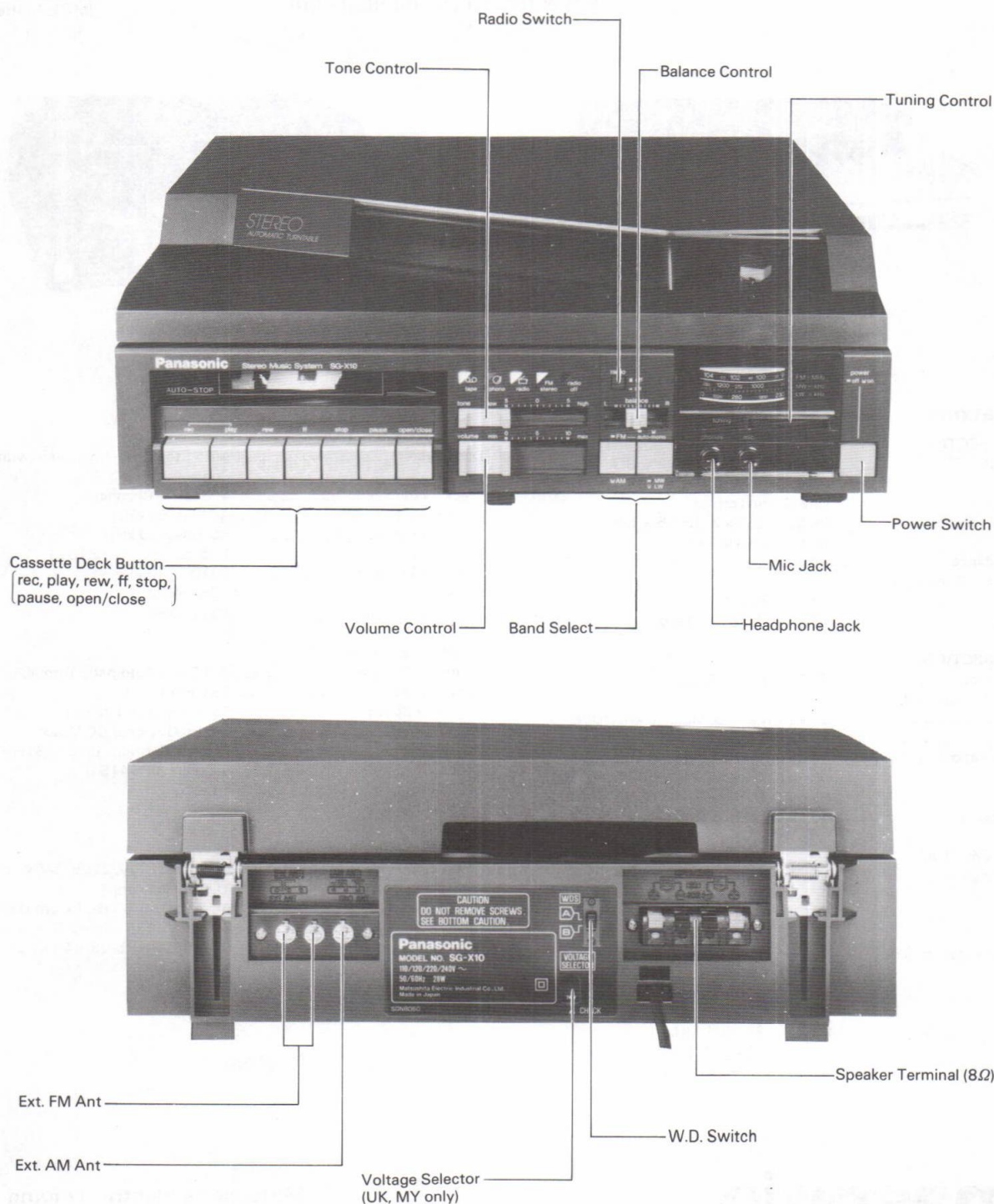
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

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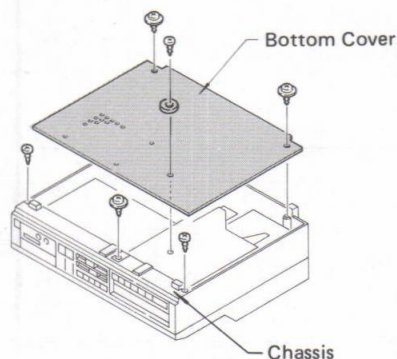
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LOCATION OF CONTROLS

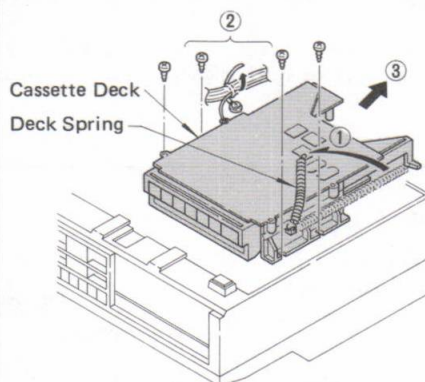


DISASSEMBLY INSTRUCTIONS

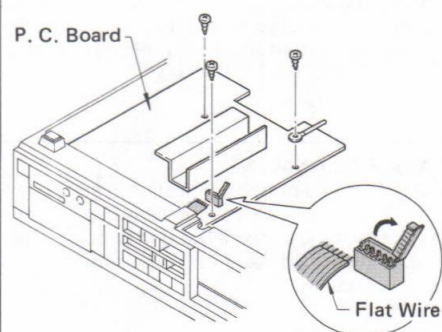
1 Remove the Bottom Cover



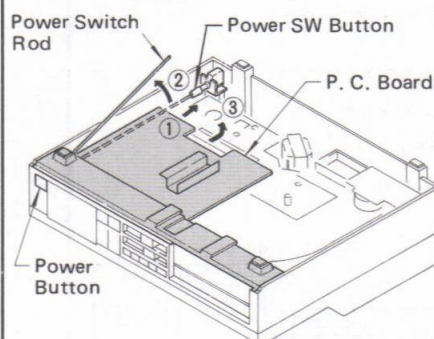
2 Remove the Cassette Deck



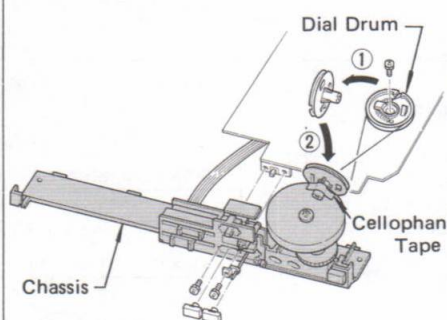
3 Remove the Screws



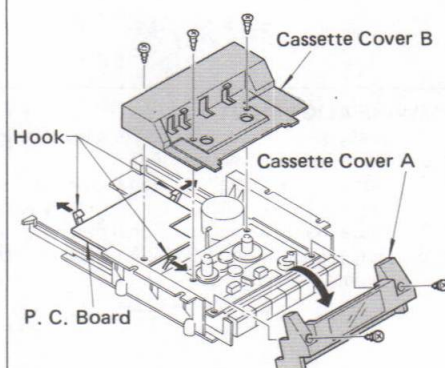
4 Remove the P. C. Board



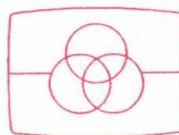
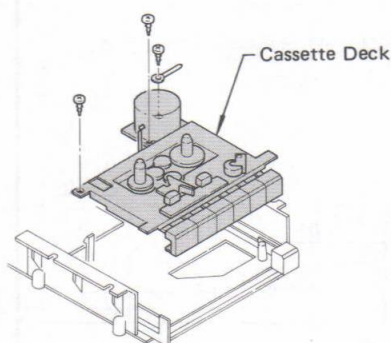
5 Remove the Chassis



6 Remove the Cassette Cover



7 Remove the Cassette Deck



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■ To Replace the Parts on P. C. Board

Main P. C. Board Refer to 1 ~ 5

Cassette P. C. Board Refer to 1, 2, 6

■ To Remove the Cassette Deck Refer to 1, 2, 6, 7

MEASUREMENTS AND ADJUSTMENT

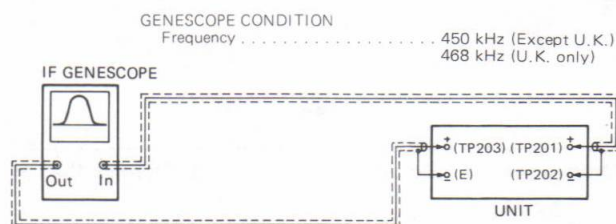
● Radio

Control Positions

Volume Control Audible level of speaker sound (AM-RF, FM-RF); Minimum (AM-IF, FM-IF).
 Tone Control Maximum
 Balance Control Center
 Output of signal generator should be no higher than necessary to obtain output reading.
 Make certain that speaker system is connected to the receiver when aligning (or use relevant dummy load resistors).

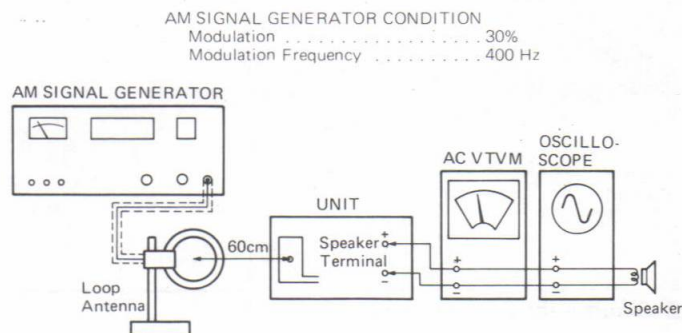
AM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial setting to point of noninterference.
4. Adjust T201 and T202 for maximum output and symmetrical curve.



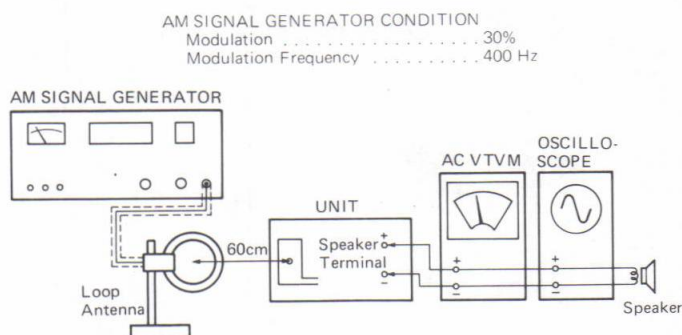
MW-RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into MW position.
3. Place the radio dial and signal generator setting to 513 kHz.
4. Adjust L201 and L202 for maximum output.
5. Place the radio dial and signal generator setting to 1645 kHz.
6. Adjust CT201 and CT202 for maximum output.
7. Repeat steps 3. ~ 6.



LW-RF ALIGNMENT

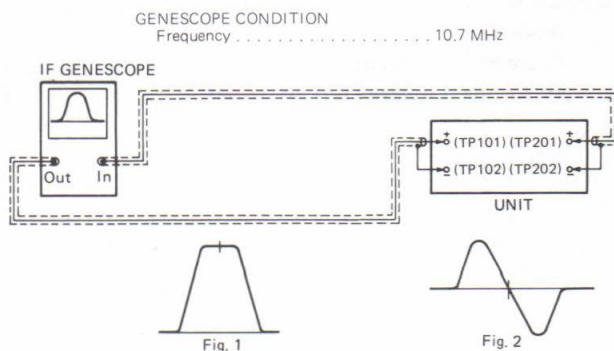
1. Test equipment connection is shown in figure.
2. Place unit into LW position.
3. Place the radio dial and signal generator setting to 142 kHz.
4. Adjust L203 and L204 for maximum output.
5. Place the radio dial and signal generator setting to 363 kHz.
6. Adjust CT203 and CT204 for maximum output.
7. Repeat steps 3. ~ 6.



FM-IF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial setting to point of noninterference.
4. Adjust T204 for maximum amplitude and symmetrical curve. (Refer to Fig. 1)
5. Adjust T205 for maximum amplitude and proper linearity between about ± 100 kHz markers. (Refer to Fig. 2)

Note: Before aligning, turn the core of T205 fully counterclockwise.



MEASUREMENTS AND ADJUSTMENT

● Radio

FM-RF ALIGNMENT

1. Test equipment connection is shown in figure.
2. Place unit into FM position.
3. Place the radio dial and signal generator setting to 87.35 MHz.

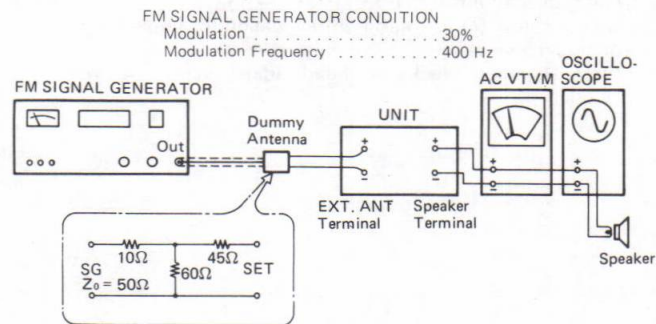
(Set the dial pointer to the left end of the scale or lower frequency edge.)

4. Adjust L101 and L103 for maximum output.
5. Place the radio dial and signal generator setting to 108.3 MHz.

(Set the dial pointer to the right end of the scale or upper frequency edge.)

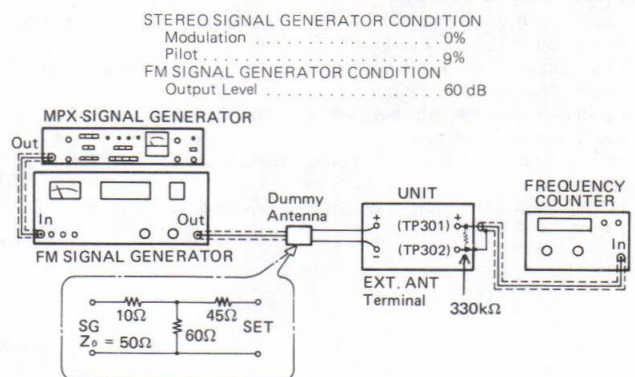
6. Adjust CT101 and CT102 for maximum output.
7. Repeat steps 3. ~ 6.

Note: As three output reading will be present, adjustments must be made at center frequency.

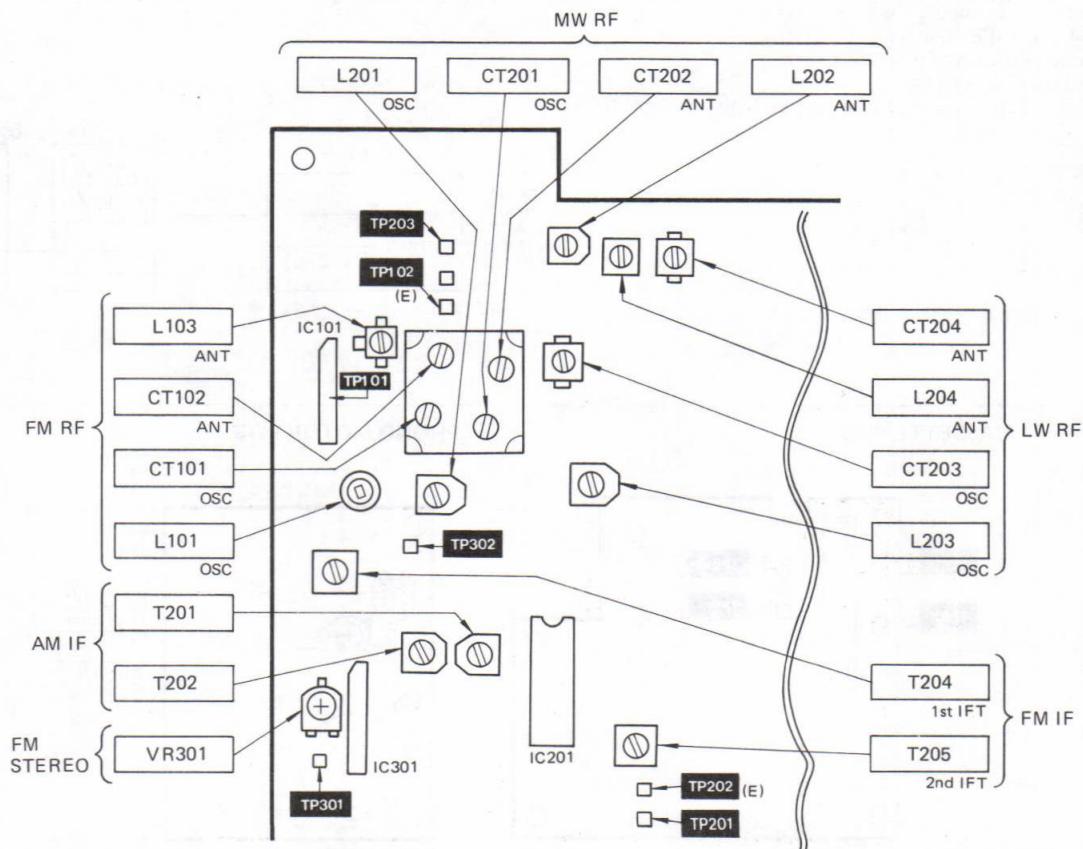


FM STEREO ALIGNMENT (FREE RUN)

1. Test equipment connection is shown in figure.
2. Place unit into FM STEREO position.
3. Place the radio dial and signal generator setting to 98 MHz.
4. Adjust VR301 for 38 kHz $\pm$ 100 Hz on frequency counter reading.
5. Tune a stereo broadcast and confirm the frequency stays at 38 kHz.



MAIN PWB

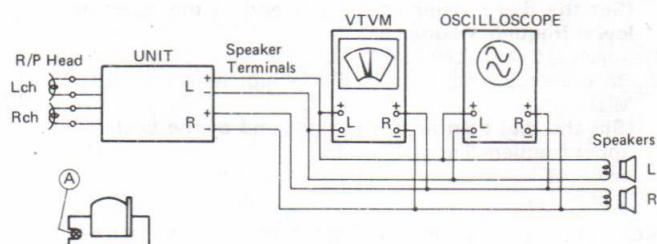


MEASUREMENTS AND ADJUSTMENT

● Tape

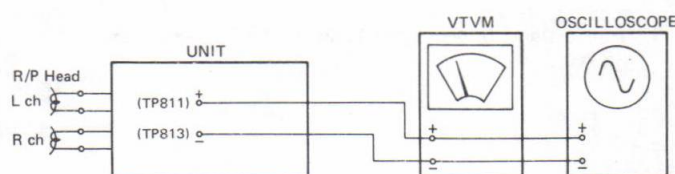
HEAD AZIMUTH ALIGNMENT

1. Test equipment connection is shown in figure.
2. Playback test tape VTT 653. (10 kHz, -5dB)
3. Adjust screw (A) for maximum indication for equal output on both channels.
4. After alignment, lock the head adjust screw (A) with lacquer.



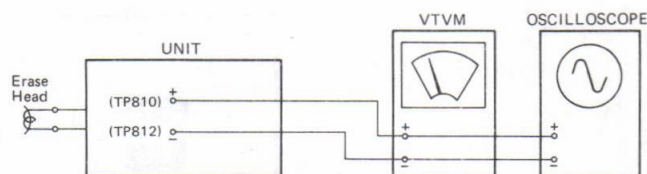
RECORDING BIAS CHECK

1. Test equipment connection is shown in figure.
2. Place unit into TAPE position.
3. Place cassette deck into recording mode.
4. Select W.D.S. to A position.
5. Confirm the recording bias voltage indicates between 3.4 mV to 4.4 mV on VTVM.
6. In the case of voltage indicates lower than 3.4 mV, cut R810.
7. In the case of voltage indicates higher than 4.4 mV, cut R813.

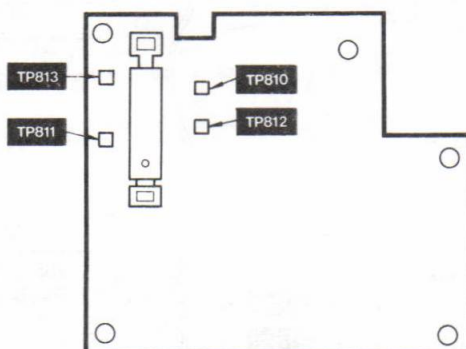


ERASE BIAS CHECK

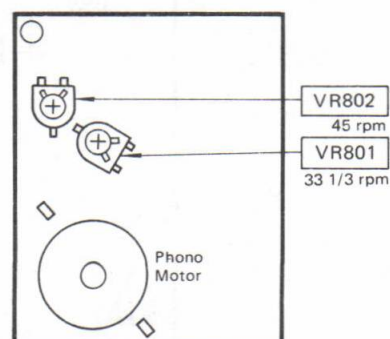
1. Test equipment connection is shown in figure.
2. Place unit into TAPE position.
3. Place cassette deck into recording mode.
4. Select W.D.S. to A position.
5. Confirm the erase bias voltage indicates between 8.5V to 13V.



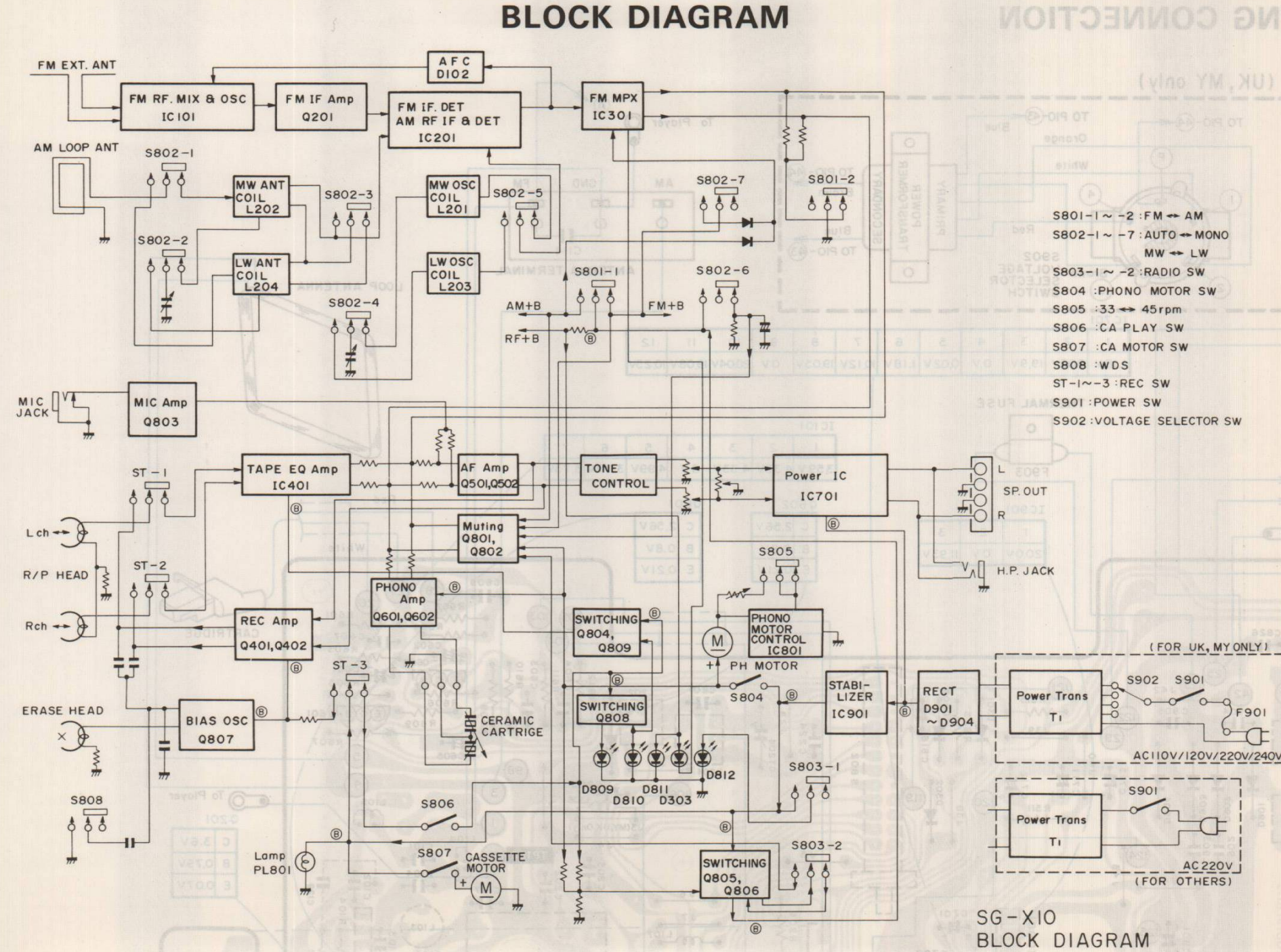
CASSETTE PWB



PHONO MOTOR PWB



6



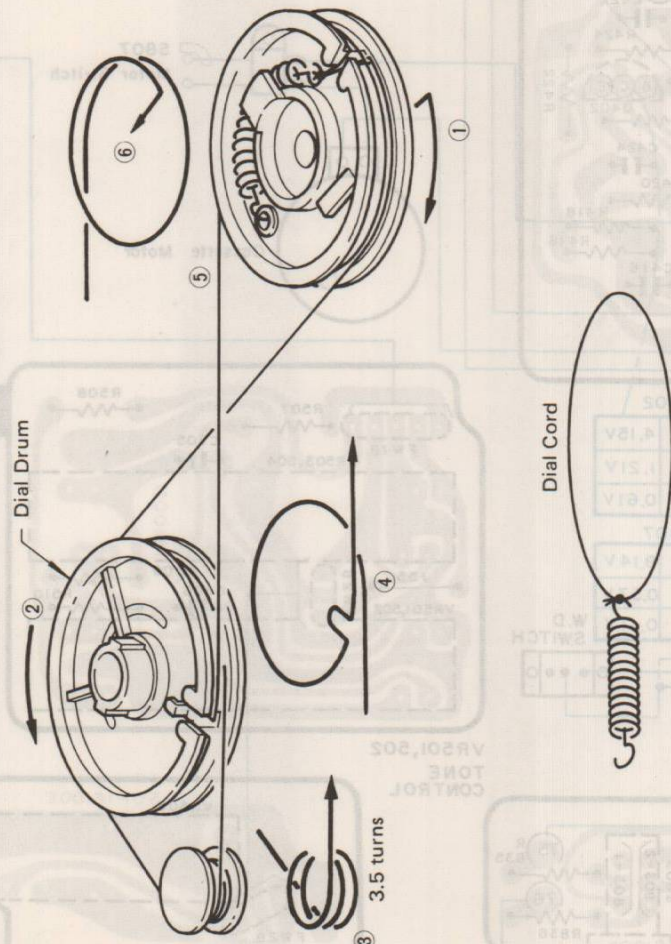
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Ref No.	Part No.	Description
ACCESSORIES		
A1	SOX50590	Inst Book [English, Deutsch, Français, Nederlands, English, Dansk, Svenska, Suomi] Inst Book [English & Military]
A1	SOX50592	Inst Book [English, Deutsch, Français, Nederlands, English, Dansk, Svenska, Suomi] Inst Book [English & Military]
PACKING		
PA1	SPNS444	Carton Box (for Black Type)
PA1	SPNS446	Carton Box (Silver Type) for Français
PA1	SPNS374	Carton Box (Silver Type) for Except Français
PA1	SPNS470	Carton Box (White Type) for Français
PA1	SPNS468	Carton Box (White Type) for Except Français
PA2	SPNS416	Pad, L
PA3	SPNS418-1	Pad, R
PA4	SPNS322	T/T Pad
PA5	SPH6234	Protector A
PA6	SPH6232	Protector B
PA7	SPH6230	Sheet
PA8	XZB5565C05	Set Cover
TRANSISTORS		
D201	2SC1359-B	FM IF Amp
D401	2SC945L-P	Rec Amp
D402	2SC945L-P	Rec Amp
D501	2SC945L-P	AF Amp
D502	2SC945L-P	AF Amp
D601	2SC945L-P	Phono Amp
D602	2SC945L-P	Phono Amp
D801	2SD1302-R	Muting
D802	2SD1302-R	Muting
D803	2SC945L-P	Mic Amp
D804	2SC945L-P	Switching
D805	2SC945L-P	Switching
D806	2SC945L-P	Switching
D807	2SD592NC-R	Bias OSC
D808	2SC945L-P	Switching
D809	2SC945L-P	Switching
INTEGRATED CIRCUIT		
IC101	AN7213	FM RF
IC201	AN7222	FM/AM IF
IC301	AN7420	MPX
IC401	UPC1228H	Cassette EQ
IC701	AN7169	Power
IC801	AN6610	PH Motor Cont
IC901	AN78M12	Regulator
DIODES		
D101	MA162A	FM AGC
D102	MA162A	AFC
D201	DS135TD	Damper
D301	MA162A	Switching
D302	MA162A	Switching
D303	MA162A	Switching
D801	MA162A	ST Eye Ind
D802	MA162A	Switching
D803	MA162A	Switching
D804	MA162A	Switching
D805	MA162A	Switching
D806	MA162A	Switching
D807	MA162A	Switching
D808	DS135TD	Cassette Ind
D809	LN3556P	Phono Ind
D810	LN3556P	Phono Ind
D811	LN3556P	Radio Ind
D812	LN3556P	Radio Ind
D813	MA162A	Radio Mute
D814	MA162A	Radio Mute
D815	MA1091A	AVR
D816	MA1091A	AVR
D901	DS135TD	Rect
D902	DS135TD	Rect
D903	DS135TD	Rect
D904	DS135TD	Rect
COILS & TRANSISTORS		
T1	SL7KA0-V	Power Trans (for United Kingdom & Military)
T1	SL7KA2-V	Power Trans (for United Kingdom & Military)
T201	SL19H102-M	AM IFT
T201	SL19H104-M	AM IFT
T201	SL19H102-M	AM IFT
T202	SL19H202-M	AM IFT
T202	SL19H204-M	AM IFT
T203	SL19H202-M	AM IFT
T203	SL19H204-M	AM IFT
T204	SL19H108-2	FM IFT
T205	SL19H108-2	FM IFT
FUSES AND LAMP		
F901	XBA2C03TRO	Fuse (for United Kingdom & Military)
F902	XBA2C16TRO	Fuse
F903	XBE10M99	Fuse
F903	XAMR52X	Lamp
CERAMIC FILTER		
CF201	SVFE107MA5	FM CFT
VARIABLE CAPACITORS		
CV101/102/201/202	RCV4RC2K-M	Variable Capacitor
CT203	RCVCTV12B218	Trimmer
CT204	RCVCTV12B218	Trimmer
SWITCHES		
S801	SSH16	Push SW
S802	SSH17	Push SW
S803	SSH16	Push SW
S804	SSH16	Push SW
S805	SSB132-1	M.D. SW
S806	SSB132-1	M.D. SW
S807	Δ EBS3742	Power SW
S808	Δ EBS3742	Power SW
S809	Δ EBS3742	Power SW
S810	Δ EBS3742	Power SW
S811	Δ EBS3742	Power SW
S812	Δ EBS3742	Power SW
S813	Δ EBS3742	Power SW
S814	Δ EBS3742	Power SW
S815	Δ EBS3742	Power SW
S816	Δ EBS3742	Power SW
S817	Δ EBS3742	Power SW
S818	Δ EBS3742	Power SW
S819	Δ EBS3742	Power SW
S820	Δ EBS3742	Power SW
S821	Δ EBS3742	Power SW
S822	Δ EBS3742	Power SW
S823	Δ EBS3742	Power SW
S824	Δ EBS3742	Power SW
S825	Δ EBS3742	Power SW
S826	Δ EBS3742	Power SW
S827	Δ EBS3742	Power SW
S828	Δ EBS3742	Power SW
S829	Δ EBS3742	Power SW
S830	Δ EBS3742	Power SW
S831	Δ EBS3742	Power SW
S832	Δ EBS3742	Power SW
S833	Δ EBS3742	Power SW
S834	Δ EBS3742	Power SW
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S843	Δ EBS3742	Power SW
S844	Δ EBS3742	Power SW
S845	Δ EBS3742	Power SW
S846	Δ EBS3742	Power SW
S847	Δ EBS3742	Power SW
S848	Δ EBS3742	Power SW
S849	Δ EBS3742	Power SW
S850	Δ EBS3742	Power SW
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S904	Δ EBS3742	Power SW
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S977	Δ EBS3742	Power SW
S978	Δ EBS3742	Power SW
S979	Δ EBS3742	Power SW
S980	Δ EBS3742	Power SW
S981	Δ EBS3742	Power SW
S982	Δ EBS3742	Power SW
S983	Δ EBS3742	Power SW
S984	Δ EBS3742	Power SW
S985	Δ EBS3742	Power SW
S986	Δ EBS3742	Power SW
S987	Δ EBS3742	Power SW
S988	Δ EBS3742	Power SW
S989	Δ EBS3742	Power SW
S990	Δ EBS3742	Power SW
S991	Δ EBS3742	Power SW
S992	Δ EBS3742	Power SW
S993	Δ EBS3742	Power SW
S994	Δ EBS3742	Power SW
S995	Δ EBS3742	Power SW
S996	Δ EBS3742	Power SW
S997	Δ EBS3742	Power SW
S998	Δ EBS3742	Power SW
S999	Δ EBS3742	Power SW
S1000	Δ EBS3742	Power SW

REPLACEMENT PARTS LIST

DIAL CORD STRINGING GUIDE

NOTES:
Dial Drum Turn Fully Counterclockwise
Dial Cord Length 75 cm



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6

10

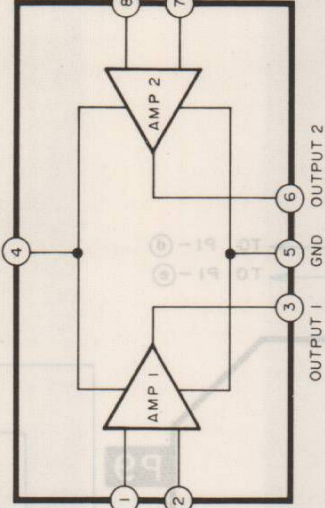
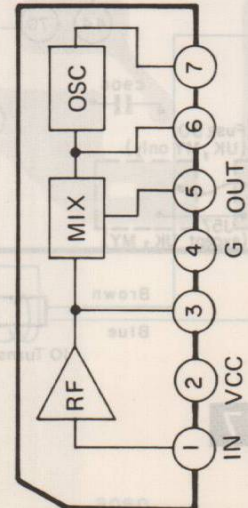
SG-X10

SG-X10 SG-X10

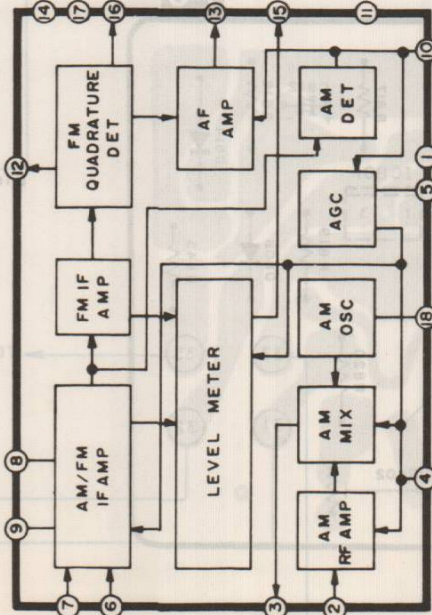
IC BLOCK DIAGRAM

UPC1228H

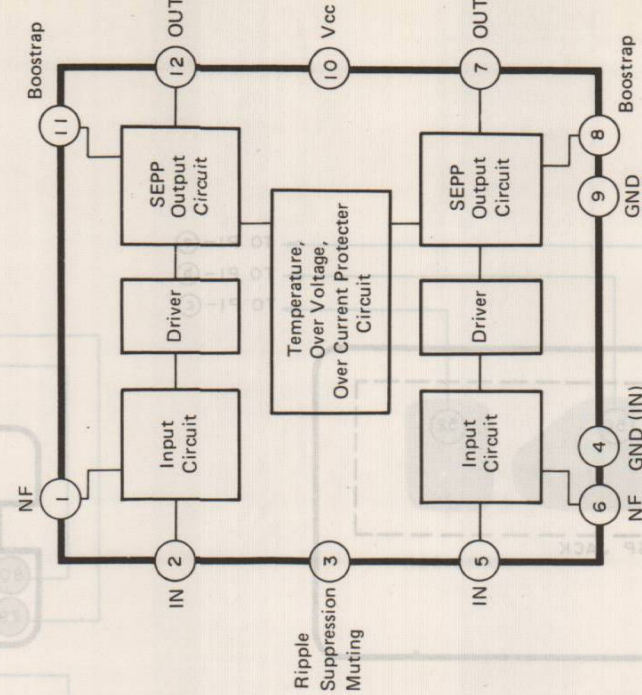
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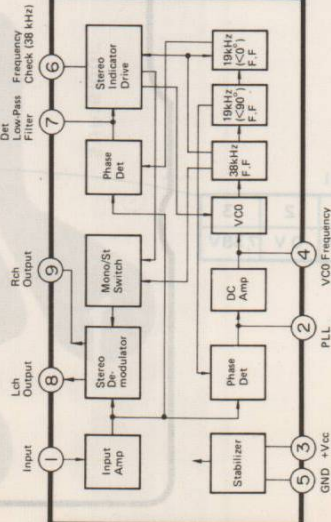
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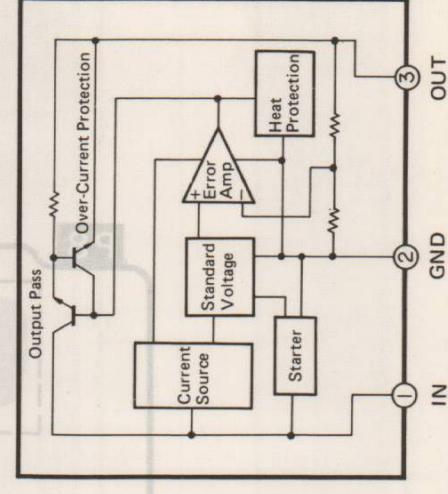
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AN7420



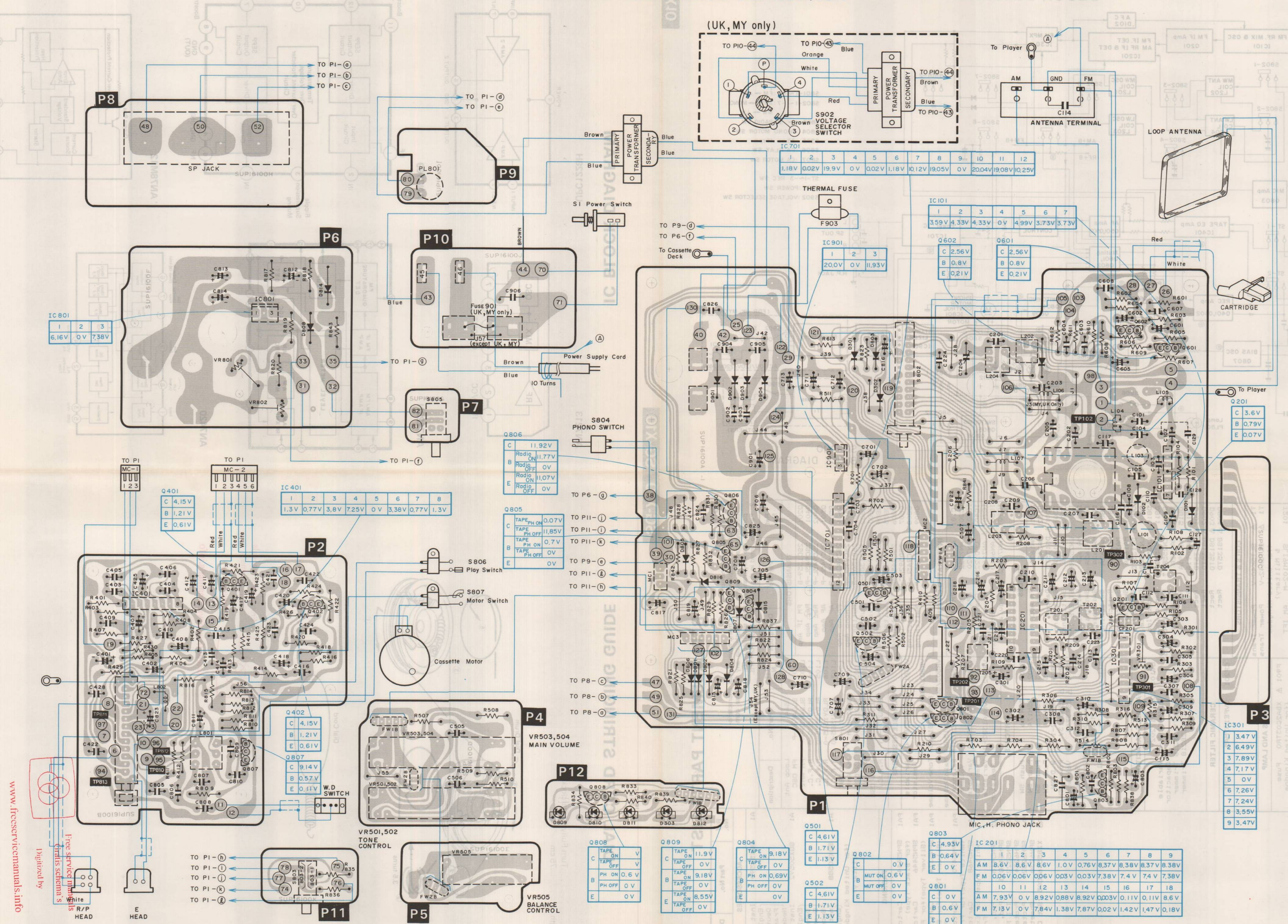
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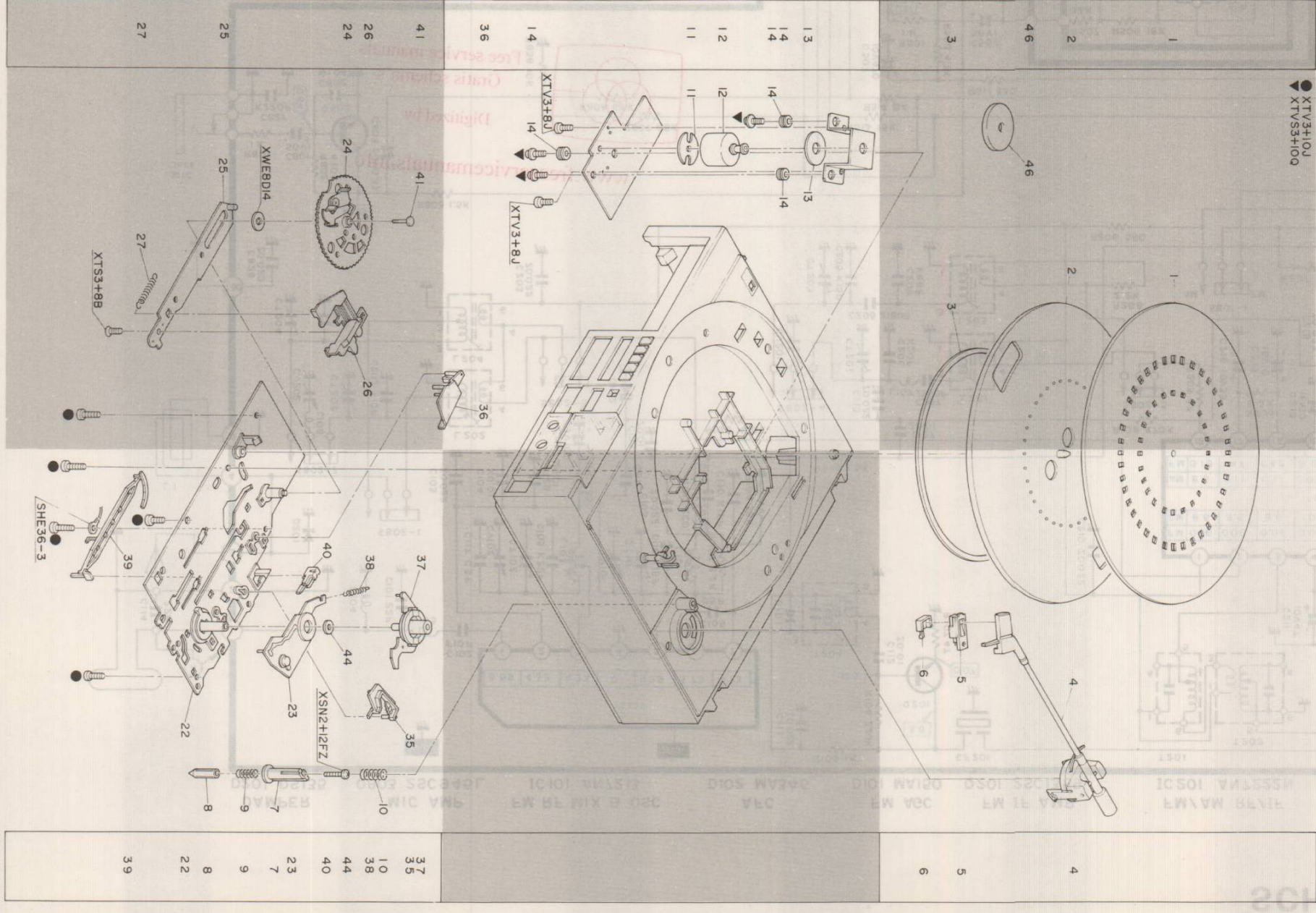


8

7

CIRCUIT BOARD AND WIRING CONNECTION





EXPLODED VIEW OF RECORD PLAYER

SG-X10 SG-X10

REPLACEMENT PARTS LIST

Numbering System of Resistor				
Type	Three Letters	One or Two Letters	Two or Three Letters	Value
Example: $\frac{D}{R}E\frac{1}{2}5$				
Resistor Type	Wattage	Tolerance	Value	Three or Four Letters
ERD: Carbon Film	1W	F: $\pm 1\%$	1 0 1 0	
ERC: Solid	2W	J: $\pm 5\%$	1 0 1 0	
ERX: Metal Film	12: 1/2W	K: $\pm 10\%$	1 0 1 0	
ERG: Megal Oxide Film	18: 1/8W			
ERO: High Stability Metal Film	25: 1/4W			
ERF: Flameproof Wire-Wound Bath-Tube	50: 1/2W			
ERQ: Fuse Type Metal Film	2F: 1/4W			
RRD: Chip				

Ref No.	Part No.	Description (Unit: Ω)
R703	ERD25FJ3331	330 Ω
R704	ERD25FJ1021	330 Ω
R801	ERD25FJ1021	330 Ω
R802	ERD25FJ1021	330 Ω
R803	ERD25FJ1021	330 Ω
R804	ERD25FJ1021	330 Ω
R805	ERD25FJ1021	330 Ω
R806	ERD25FJ1021	330 Ω
R807	ERD25FJ1021	330 Ω
R808	ERD25FJ1021	330 Ω
R809	ERD25FJ1021	330 Ω
R810	ERD25FJ1021	330 Ω
R811	ERD25FJ1021	330 Ω
R812	ERD25FJ1021	330 Ω
R813	ERD25FJ1021	330 Ω
R814	ERD25FJ1021	330 Ω
R815	ERD25FJ1021	330 Ω
R816	ERD25FJ1021	330 Ω
R817	ERD25FJ1021	330 Ω
R818	ERD25FJ1021	330 Ω
R819	ERD25FJ1021	330 Ω
R820	ERD25FJ1021	330 Ω
R821	ERD25FJ1021	330 Ω
R822	ERD25FJ1021	330 Ω
R823	ERD25FJ1021	330 Ω
R824	ERD25FJ1021	330 Ω
R825	ERD25FJ1021	330 Ω
R826	ERD25FJ1021	330 Ω
R827	ERD25FJ1021	330 Ω
R828	ERD25FJ1021	330 Ω
R829	ERD25FJ1021	330 Ω
R830	ERD25FJ1021	330 Ω
R831	ERD25FJ1021	330 Ω
R832	ERD25FJ1021	330 Ω
R833	ERD25FJ1021	330 Ω
R834	ERD25FJ1021	330 Ω
R835	ERD25FJ1021	330 Ω
R836	ERD25FJ1021	330 Ω
R837	ERD25FJ1021	330 Ω
R838	ERD25FJ1021	330 Ω
R839	ERD25FJ1021	330 Ω
R840	ERD25FJ1021	330 Ω
R841	ERD25FJ1021	330 Ω
R842	ERD25FJ1021	330 Ω
R843	ERD25FJ1021	330 Ω

Ref No.	Part No.	Description (Unit: Ω)
R101	ERD25FJ3331	330 Ω
R102	ERD25FJ2221	220 Ω
R103	ERD25FJ2221	220 Ω
R104	ERD25FJ3331	330 Ω
R105	ERD25FJ3331	330 Ω
R106	ERD25FJ3331	330 Ω
R107	ERD25FJ3331	330 Ω
R108	ERD25FJ3331	330 Ω
R109	ERD25FJ3331	330 Ω
R110	ERD25FJ3331	330 Ω
R111	ERD25FJ3331	330 Ω
R112	ERD25FJ3331	330 Ω
R113	ERD25FJ3331	330 Ω
R114	ERD25FJ3331	330 Ω
R115	ERD25FJ3331	330 Ω
R116	ERD25FJ3331	330 Ω
R117	ERD25FJ3331	330 Ω
R118	ERD25FJ3331	330 Ω
R119	ERD25FJ3331	330 Ω
R120	ERD25FJ3331	330 Ω
R121	ERD25FJ3331	330 Ω
R122	ERD25FJ3331	330 Ω
R123	ERD25FJ3331	330 Ω
R124	ERD25FJ3331	330 Ω
R125	ERD25FJ3331	330 Ω
R126	ERD25FJ3331	330 Ω
R127	ERD25FJ3331	330 Ω
R128	ERD25FJ3331	330 Ω
R129	ERD25FJ3331	330 Ω
R130	ERD25FJ3331	330 Ω
R131	ERD25FJ3331	330 Ω
R132	ERD25FJ3331	330 Ω
R133	ERD25FJ3331	330 Ω
R134	ERD25FJ3331	330 Ω
R135	ERD25FJ3331	330 Ω
R136	ERD25FJ3331	330 Ω
R137	ERD25FJ3331	330 Ω
R138	ERD25FJ3331	330 Ω
R139	ERD25FJ3331	330 Ω
R140	ERD25FJ3331	330 Ω
R141	ERD25FJ3331	330 Ω
R142	ERD25FJ3331	330 Ω

Numbering System of Capacitor				
Type	Four Letters	One or Two Letters	Two to Five Letters	Tolerance
Example: $\frac{E}{C}K\frac{D}{D}333$				
Capacitor Type	Voltage	Value	One or Two Letters	Tolerance
ECDD: Temperature Compensating Ceramic	0J: 6.3V	C: $\pm 0.25pF$		
ECKD: High Dielectric Constant Ceramic	1A: 10V	D: $\pm 0.5pF$		
ECOM: Polyester	1C: 16V	F: $\pm 1pF$		
ECOS: Polypropylene Film	1E: 25V	J: $\pm 5\%$		
ECDS: Polystyrene Film	1H: 50V	K: $\pm 10\%$		
ECED: Semiconductor Ceramic	1V: 63V	M: $\pm 20\%$		
EEEA: Electrolytic	2H: 100V	P: $\pm 100, -0\%$		
EEEB: Electrolytic	25: 25V	Z: $\pm 80, -20\%$		
EECS: Tantalum				
EECX: Chip				

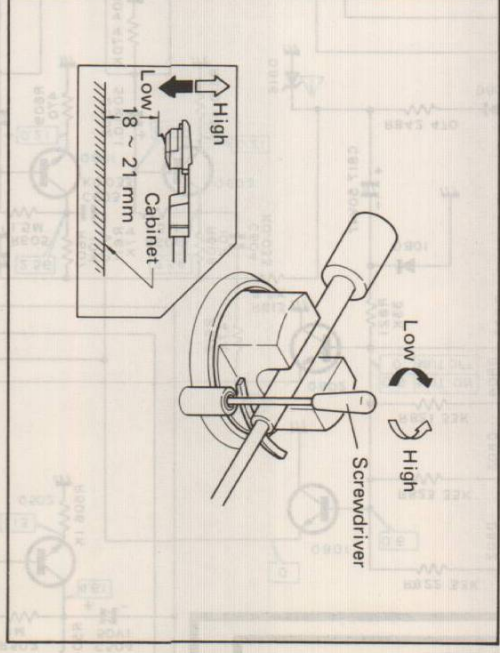
Ref No.	Part No.	Description (Unit: μF)
C603	ECFR1V333KDY	0.033
C604	ECFR1V333KDY	0.033
C605	ECFR1V333KDY	0.033
C606	ECFR1V333KDY	0.033
C607	ECFR1V333KDY	0.033
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C609	ECFR1V333KDY	0.033
C610	ECFR1V333KDY	0.033
C611	ECFR1V333KDY	0.033
C612	ECFR1V333KDY	0.033
C613	ECFR1V333KDY	0.033
C614	ECFR1V333KDY	0.033
C615	ECFR1V333KDY	0.033
C616	ECFR1V333KDY	0.033
C617	ECFR1V333KDY	0.033
C618	ECFR1V333KDY	0.033
C619	ECFR1V333KDY	0.033
C620	ECFR1V333KDY	0.033
C621	ECFR1V333KDY	0.033
C622	ECFR1V333KDY	0.033
C623	ECFR1V333KDY	0.033
C624	ECFR1V333KDY	0.033
C625	ECFR1V333KDY	0.033
C626	ECFR1V333KDY	0.033
C627	ECFR1V333KDY	0.033
C628	ECFR1V333KDY	0.033
C629	ECFR1V333KDY	0.033
C630	ECFR1V333KDY	0.033
C631	ECFR1V333KDY	0.033
C632	ECFR1V333KDY	0.033
C633	ECFR1V333KDY	0.033
C634	ECFR1V333KDY	0.033
C635	ECFR1V333KDY	0.033
C636	ECFR1V333KDY	0.033
C637	ECFR1V333KDY	0.033
C638	ECFR1V333KDY	0.033
C639	ECFR1V333KDY	0.033
C640	ECFR1V333KDY	0.033
C641	ECFR1V333KDY	0.033
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C659	ECFR1V333KDY	0.033
C660	ECFR1V333KDY	0.033
C661	ECFR1V333KDY	0.033
C662	ECFR1V333KDY	0.033

MODEL NO SG-X10
SCHEMATIC DIAGRAM

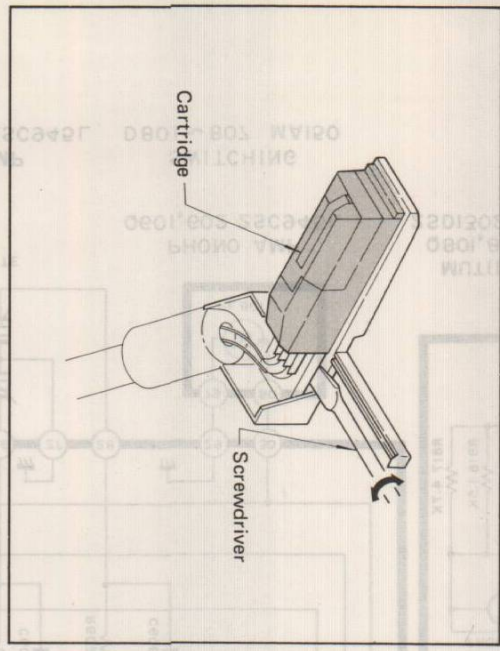
SERVICING THE RECORD PLAYER

REPLACEMENT PARTS LIST

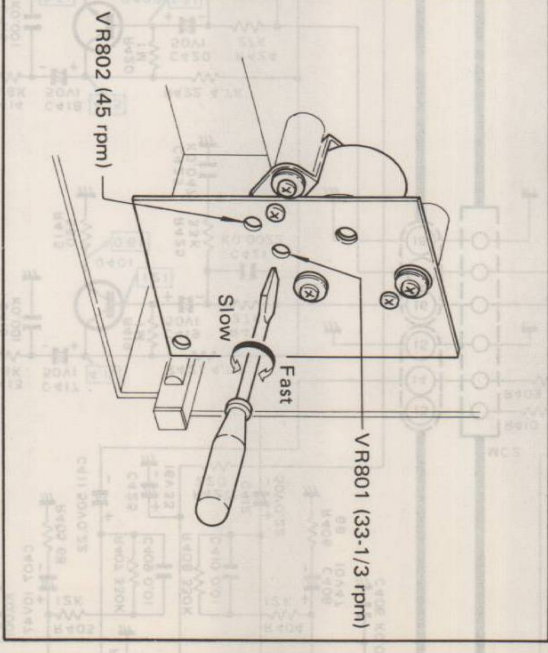
■ TONE ARM LIFTING HEIGHT ADJUSTMENT



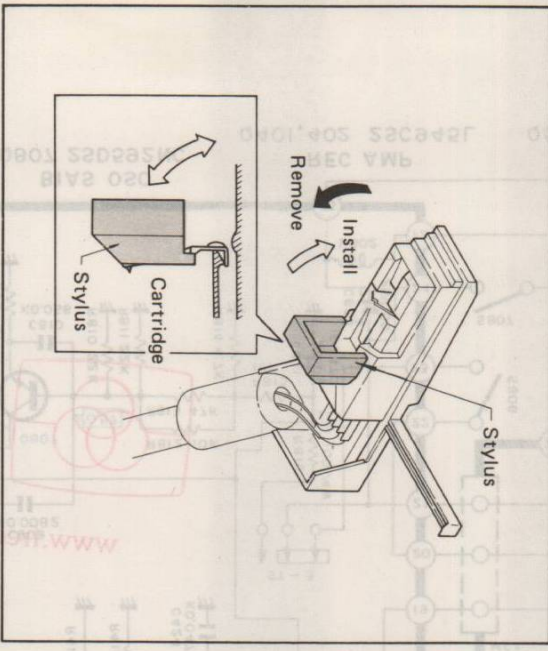
■ CARTRIDGE REPLACEMENT



■ MOTOR SPEED ADJUSTMENT

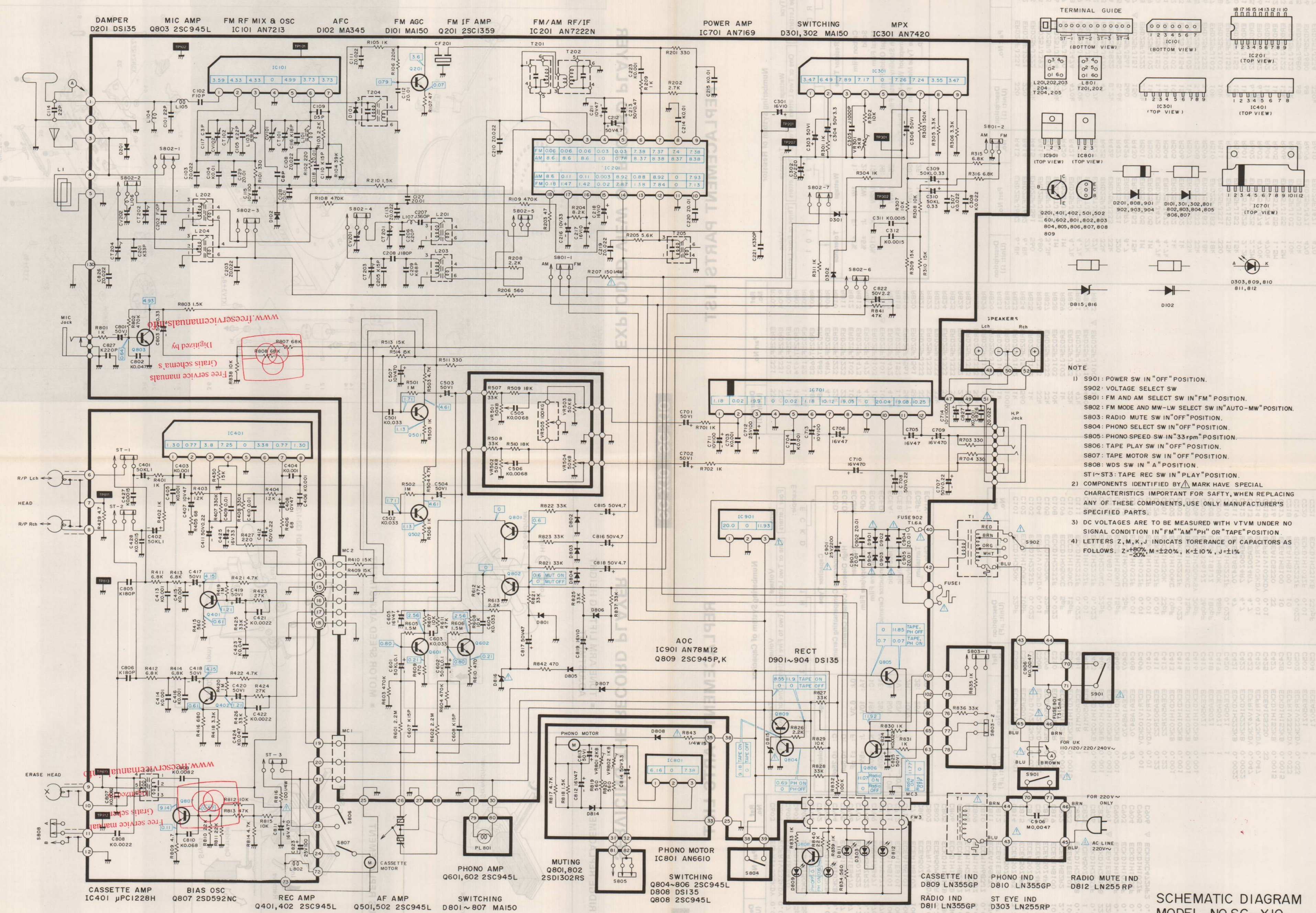


■ STYLUS REPLACEMENT



SG-X10

SCHEMATIC DIAGRAM



REPLACEMENT PARTS LIST OF RECORD PLAYER

Ref. No.	Part No.	Description	Per Set (pcs.)	Ref. No.	Part No.	Description	Per Set (pcs.)
1	SJY4068	Rubber Mat	1				
2	SJY510	Turntable	1				
3	SJY90080	T/T Belt	1				
4	EPA641STF	Tone Arm	1				
5	EPC13STH	Cartridge	1				
6	EPS41ST	Stylus	1				
7	SJY5196-2	Lifter	1				
8	SJY90034	Lifter Pin	1				
9	SJY90160	Spring	1				
10	SUS84-2	Spring	1				
11	SJY90322	Motor Spacer	1				
12	MMNX10E	Motor	1				
13	SJY90324	Motor Rubber	1				
14	SHG9238	Rubber Cushion	3				
22	SJY512	Base Plate	1				
23	SJY514	PU Moving Plate	1				
24	SJY416	Main Gear Ass'y	1				
25	SJY496	Operating Plate	1				
26	SJY90014-2	Bracket	1				
27	SJY90406	Spring	1				
35	SJY90098-1	Operating Plate	1				
36	SJY90028-4	Operating Plate	1				
37	SJY90030-1	Tone Arm Plate	1				
38	SJY90072	Spring	1				
39	SJY90032-1	Actuating Plate	1				
40	SSP66	Switch	1				
41	SHR9174	Stopper Pin	1				
44	SNW622-3	Washer	1				
46	SJY5018-1	EP Adaptor	1				

REPLACEMENT PARTS LIST OF CABINET AND CHASSIS

Ref. No.	Part No.	Description	Per Set (pcs.)
1	SYK2080	Cabinet Ass'y (Black)	1
1	SYK2080-1	Cabinet Ass'y (Silver)	1
1	SYK2080-2	Cabinet Ass'y (for Dansk)	1
1	SYK2080-3	Cabinet Ass'y (for United Kingdom & Military)	1
1	SYK2080-4	Cabinet Ass'y (White)	1
2	SKU6741	Bottom Cover	1
3	SYE1080	Dust Cover Ass'y (for Black Type)	1
3	SYE1080-1	Dust Cover Ass'y (for Silver Type)	1
3	SYE1080-2	Dust Cover Ass'y (for White Type)	1
4	SBH9136	Hinge (L)	1
5	SBH9136-1	Hinge (R)	1
6	SHG9246-1	Cap (for Black Type)	1
6	SHG9246	Cap (for Silver Type)	1
7	SBN1116	Knob, Tuning	1
8	SKD5962	Dial Scale (Except United Kingdom)	1
8	SKD5963	Dial Scale (for United Kingdom)	1
8	SKD5967	Dial Scale (for White Type)	1
9	SBN1118-1	Knob, Volume (for Black Type)	1
9	SBN1118	Knob, Volume (for Silver, White Type)	1
10	SBN1120-1	Knob, Tone (for Black Type)	1
10	SBN1120	Knob, Tone (for Silver, White Type)	1
11	SBC536-1	Button, Band (for Black Type)	2
11	SBC536	Button, Band (for Silver, White Type)	2
12	SBC538-1	Button, Speed (for Black Type)	1
12	SBC538	Button, Speed (for Silver, White Type)	1
13	SBC552-1	Button, Radio ON-OFF (for Black Type)	1
13	SBC552	Button, Radio ON-OFF (for Silver, White Type)	1
14	SBC554-1	Button, Power (for Black Type)	1
14	SBC554	Button, Power (for Silver, White Type)	1
15	SBC1128	Knob, Balance (for Black Type)	1
15	SBC1128-1	Knob, Balance (for Silver, White Type)	1
16	SDD42	Drum, Dial	1
17	SDR22	Roller, Scale	1
18	SDR24	Roller, Tuning	1
19	SNW852	Washer	1
20	SUH156	Rod, Power Switch	1
21	RDS4170A	Spring, Drum	1

Ref. No.	Part No.	Description	Per Set (pcs.)
22	SHR134	Clamp, Power Cord	1
23	SUV280	Cover, Power	1
24	SUV282	Cover, Power Switch	1
25	SUH168	Rod, Band Switch	1
26	SUD438	Spacer	4
27	SMN1246	Fuse, Bracket	1
28	SMX260	Insulator	1
29	SJA136	Power Cord (for United Kingdom)	1
29	SJA138-3	Power Cord (Except United Kingdom)	1
30	SJF4308	Terminal, ANT	1
31	SJF3928	Terminal, Speaker	1
32	SJJ106	Jack, Handphone/Mic	2
33	SJF110	Fuse Holder	1
34	SXE264	Chassis Ass'y (for Black Type)	1
34	SXE264-1	Chassis Ass'y (for Silver, White Type)	1
35	RUV387ZD	Voltage Select Cover (for United Kingdom & Military)	

Items of Assembly Parts

Ref No.	Part No.	Description	Per Set (pcs.)
1	SYK2080	Cabinet Ass'y (Black)	1
1	SYK2080-1	Cabinet (Silver)	(1)
1	SYK2080-2	Transparent Cover A (for Dansk)	(1)
1	SYK2080-3	Transparent Cover B (for United Kingdom & Military)	(1)
1	SYK2080-4	Cabinet Ass'y (White)	(1)
3	SYE1080	Dust Cover Ass'y (for Black Type) or Tined Cover	1 (1) (1)
3	SYE1080-1	Ornament (for Silver Type)	(1)
3	SYE1080-2	Dust Cover Ass'y (for White Type)	(1)
34	SXE264	Chassis Ass'y (for Black Type)	1 (1)
34	SXE264-1	Foot (for Silver, White Type)	(3)

The parts without REF. NO. are not supplied.

 XSN2+4
 XYN3+C6S
 XTV3+8JFZ
 XTV3+8BFN
 XTV3+IOBFN
 XTV3+IOJFXR
 XTV3+IOJFZ
 XTV3+I2T
 XTV3+I5J
 XTV4+I2J

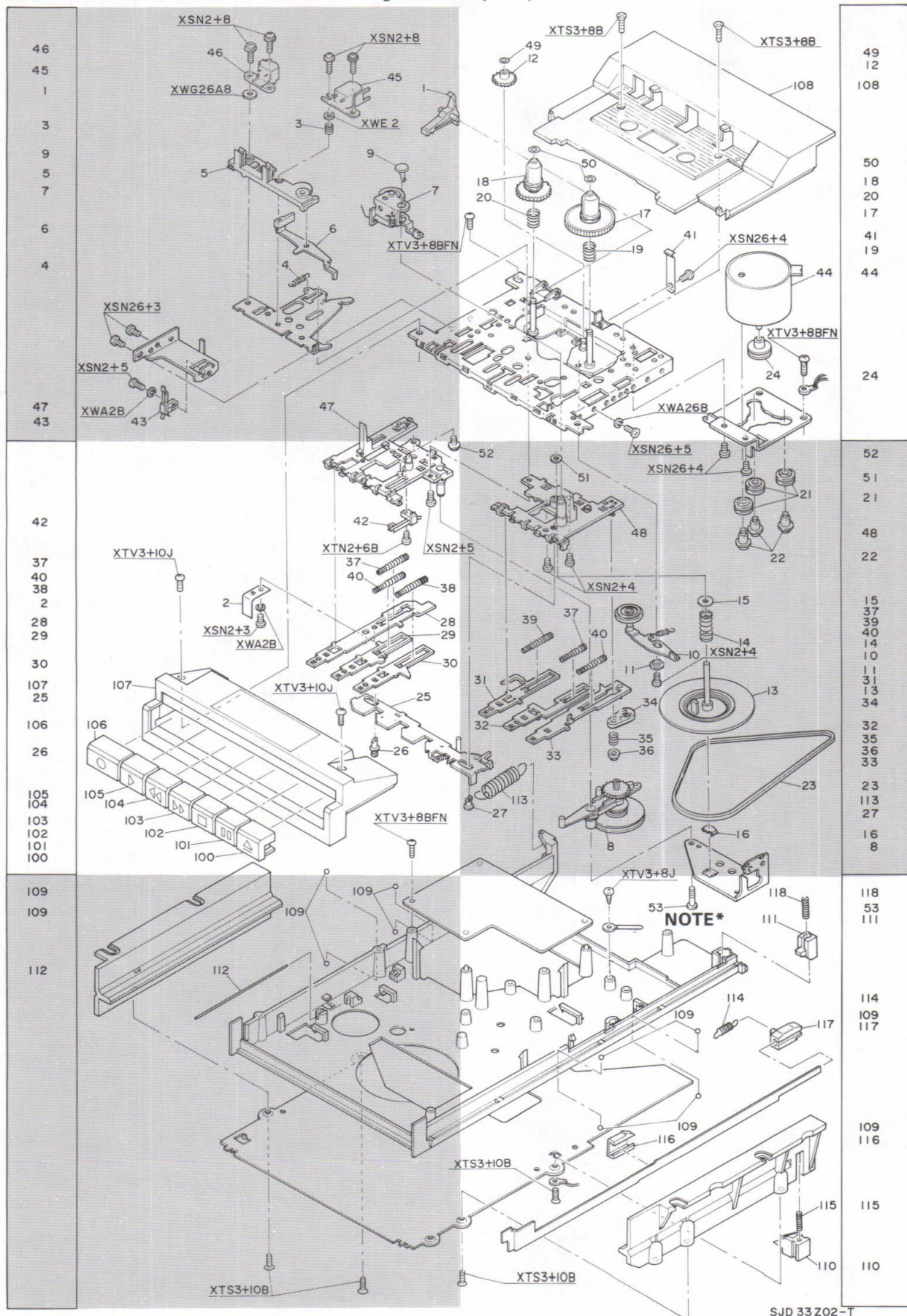


REPLACEMENT PARTS LIST OF CASSETTE TAPE DECK

Ref. No.	Part No.	Description	Per Set (pcs.)	Ref. No.	Part No.	Description	Per Set (pcs.)
1	SMQ4778	Rec Safety Lever	1	100	SBC534	Button, Eject (for Silver Type)	1
2	SMQ4332	Rec Plate Spring	1	100	SBC534-1	Button, Eject (for Black Type)	1
3	SMQ4596	Spring, Head	1	100	SBC534-2	Button, Eject (for White Type)	1
4	SMQ5002	Spring, Head Panel	1	101	SBC550	Button, Pause (for Silver, White Type)	1
5	SMQ5004	Head Base	1	101	SBC550-1	Button, Pause (for Black Type)	1
6	SMQ5006	Sensing Piece	1	102	SBC548	Button, Stop (for Silver, White Type)	1
7	SMQ5008	Pinch Roller Ass'y	1	102	SBC548-1	Button, Stop (for Black Type)	1
8	SMQ5010	RF Clutch Ass'y	1	103	SBC546	Button, FF (for Silver, White Type)	1
9	SMQ4774	Stopper	1	103	SBC546-1	Button, FF (for Black Type)	1
10	SMQ5012	Roller Shaft Bracket Ass'y w/SP	1	104	SBC544	Button, Rew (for Silver, White Type)	1
11	SMQ5014	Collar, Take Up Roller	1	104	SBC544-1	Button, Rew (for Black Type)	1
12	SMQ4810	Gear, FF	1	105	SBC542	Button, Play (for Silver, White Type)	1
13	SMQ5016	Flywheel Ass'y	1	105	SBC542-1	Button, Play (for Black Type)	1
14	SMQ5018	Spring, Flywheel	1	106	SBC540	Button, Rec (for Silver, White Type)	1
15	SMQ5020	Wahser	1	106	SBC540-1	Button, Rec (for Black Type)	1
16	SMQ2538	Plate, Flywheel	1	107	SYE1078	Cassette Cover A (for Black Type)	1
17	SMQ5022	Take Up Reel Ass'y	1	107	SYE1078-1	Cassette Cover A (for Silver Type)	1
18	SMQ5024	Reel Ass'y, Supply	1	107	SYE1078-2	Cassette Cover A (for White Type)	1
19	SMQ5026	Spring, Take Up Reel	1	108	SGE1594	Cassette Cover B (for Silver Type)	1
20	SMQ5028	Spring, Supply Reel	1	108	SGE1594-1	Cassette Cover B (for Black Type)	1
21	SMQ1834	Cushion, Motor	3	108	SGE1594-2	Cassette Cover B (for White Type)	1
22	SMQ1908	Screw	3	109	SUW2722	Ball Bearing	8
23	SMQ5030	Belt, Main	1	110	SUE146	Hook	1
24	SMQ4726	Pulley, Motor	1	111	SUE148	Eject Hook	1
25	SMQ5032	Operation Plate	1	112	SUH158	Rod	1
26	SMQ4276	Operation Plate Shaft, Rec	1	113	SUS476	Spring	1
27	SMQ5034	Operation Plate Shaft, Stop	1	114	SUS454	Eject Spring	1
28	SMQ5036	Lever, REC	1	115	SUS458	Spring	1
29	SMQ5038	Lever, Play	1	116	SUE150	Eject Cam A	1
30	SMQ5040	Lever, Rew	1	117	SUE152	Eject Cam B	1
31	SMQ5042	Lever, FF	1	118	SUS460-2	Eject Spring	1
32	SMQ5044	Lever, STOP	1				
33	SMQ5046	Lever, Pause	1				
34	SMQ2444	Lever, Click	1				
35	SMQ5048	Spring, Click Lever	1				
36	SMQ4862	Stopper	1				
37	SMQ5050	Spring, Rec/Stop	2				
38	SMQ5052	Spring, Rew	1				
39	SMQ5054	Spring, FF	1				
40	SMQ5056	Spring, Play/Pause	2				
41	SMQ5058	Plate Spring	1				
42	SMQ5060	Switch, Motor	1				
43	SMQ5062	Switch, Play	1				
44	MMI5A2R	Motor	1				
45	SJH92	R/P Head	1				
46	SJH94	E. Head	1				
47	SMQ5064	Button Base, R	1				
48	SMQ5434	Button Base, L	1				
49	SMQ4930	Washer, FF Gear	1				
50	SMQ4928	Washer, Reel Shaft	2				
51	SMQ1402	Washer, Pulley	1				
52	SMQ5068	Screw	1				
53	SMQ5070	Screw	1				

EXPLODED VIEW OF CASSETTE TAPE DECK

NOTE*: This screw is turn free mechanism if tightened completely.



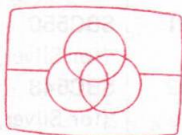
SJD 33 Z02-T

Service Manual

LW/MW/FM Stereo Radio with
Cassette Tape Deck and Record Player

Stereo Music Centre

SG-X10



Free service manuals
Gratis schema's

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Color

(R) ...Red Type

Color	Area
(R)	[EH] ...Holland

Please use this manual together with the Service Manual for Model No. SG-X10 Order No. SD83042475C2

REPLACEMENT PARTS LIST

CABINET AND CHASSIS (Page 21)

Ref. No.	Part No.	Description	Per Set (PCS)
8	SKD5967	Dial Scale (for White Type)	1
9	SBN1118	Knob, Volume (for Silver, White, Type)	1
10	SBN1120	Knob, Tone (for Silver, White Type)	1
11	SBC536	Button, Band (for Silver, White Type)	2
12	SBC538	Button, Speed (for Silver, White Type)	1
13	SBC552	Button, Radio ON-OFF (for Silver, White Type)	1
15	SBC1128-1	Knob, Balance (for Silver, White Type)	1



Ref. No.	Part No.	Description	Per Set (PCS)	Remark
1	SKMGX10RE	Cabinet Ass'y (Red)	1	Added
3	SGEGX10RE	Dust Cover (for Red Type) Ass'y	1	Added
8	SKD5967	Dial Scale (for White, Red Type)	1	
9	SBN1118	Knob, Volume (for Silver, White, Red Type)	1	
10	SBN1120	Knob, Tone (for Silver, White, Red Type)	1	
11	SBC536	Button, Band (for Silver, White, Red Type)	2	
12	SBC538	Button, Band (for Silver, White, Red Type)	1	
13	SBC552	Button, Radio ON-OFF (for Silver, White, Red Type)	1	
14	SBC554-2	Button, Power (for Red Type)	1	Added
15	SBC1128-1	Knob, Balance (for Silver, White, Red Type)	1	
34	SUAGX10RE	Chassis Ass'y (for Red Type)	1	Added

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CASSETTE TAPE DECK (Page 23)

Ref. No.	Part No.	Description	Per Set (PCS)
100	SBC534-2	Button, Eject (for White Type)	1
101	SBC550	Button, Pause (for Silver, White Type)	1
102	SBC548	Button, Stop (for Silver, White Type)	1
103	SBC546	Button, FF (for Silver, White Type)	1
104	SBC544	Button, Rew (for Silver, White Type)	1
105	SBC542	Button, Play (for Silver, White Type)	1
106	SBC540	Button, Rec (for Silver, White Type)	1



Ref. No.	Part No.	Description	Per Set (PCS)	Remark
100	SBC534-2	Button, Eject (for White, Red Type)	1	
101	SBC550	Button, Pause (for Silver, White, Red Type)	1	
102	SBC548	Button, Stop (for Silver, White, Red Type)	1	
103	SBC546	Button, FF (for Silver, White, Red Type)	1	
104	SBC544	Button, Rew (for Silver, White, Red Type)	1	
105	SBC542	Button, Play (for Silver, White, Red Type)	1	
106	SBC540	Button, Rec (for Silver, White, Red Type)	1	
107	SGEGX10RE1	Cassette (for Red Type) Cover A	1	Added
108	SGE1594-3	Cassette Cover B	1	Added

PACKING (Page 10)

Ref. No.	Part No.	Description	Per Set (PCS)
PA8	XZB55X65C05	Set cover	1



Ref. No.	Part No.	Description	Per Set (PCS)	Remark
PA1	SPN5600	Carton Box (for Red Type)	1	Added
PA8	SPP230	Set Cover	1	Changed

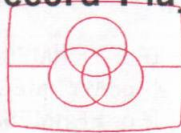
Service Manual

LW/MW/FM Stereo Radio with
Cassette Tape Deck and Record Player

Stereo Music Centre

SG-X10

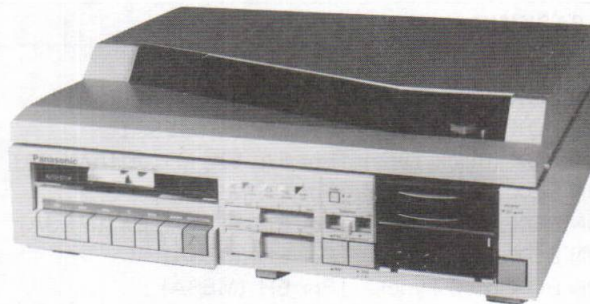
Supplement- 1



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Color

(K) ... Black Type
(S) ... Silver Type
(W) ... White Type
(R) ... Red Type

Color	Area
(K)	[EK] ... United Kingdom
(W)	[EF] ... France (FE)
(K)(W)(S)	[EI] ... Italy
(K)(W)	[EA] ... Austria (EW)
(W)(S)	[EB] ... Belgium (EW)
(K)(W)(S)(R)	[EH] ... Holland (EW)
(K)(W)(S)	[EX] ... Denmark, Norway, Finland
(K)	[MY] ... Military

Please use this manual together with the Service Manual for Model No. SG-X10 Order No. SD83042475C2

Change

REPLACEMENT PARTS LIST

Ref. No.	Parts No.	Descriptions	Remarks
	MADE IN SINGAPORE		
CABINET AND CHASSIS			
1	SKMGX10KEX	CABINET ASS'Y (Black Type) [For EX, EA, EH](MESA)	Added
1	SKMGX10KE	CABINET ASS'Y (Black Type) [For EI](MESA)	Added
1	SKMGX10SEX	CABINET ASS'Y (Silver Type) [For EH, EB; EX](MESA)	Added
1	SKMGX10SE	CABINET ASS'Y (Silver Type) [For EI](MESA)	Added
1	SKMGX10KUK	CABINET ASS'Y (Black Type) [For EK](MESA)	Added
1	SKMGX10KMY	CABINET ASS'Y (Black Type) [For MY](MESA)	Added
1	SKMGX10WEF	CABINET ASS'Y (White Type) [For EF, EI](MESA)	Added
1	SKMGX10WE	CABINET ASS'Y (White Type) [For EX, EA, EB, EH](MESA)	Added
1	SKMGX10REH	CABINET ASS'Y (Red Type) [For EH](MESA)	Added

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Ref. No.	Parts No.	Descriptions	Remarks
	MADE IN SINGAPORE		
ACCESSORIES			
A1	SQF12261	INST BOOK ASS'Y [For EK](MESA)	Added
A1	SQF12262	INST BOOK ASS'Y [For MY](MESA)	Added
A1	SQF12260	INST BOOK ASS'Y [For EF](MESA)	Added
A1	SQF12258	INST BOOK ASS'Y [For EA, EB, EH](MESA)	Added
A1	SQF12259	INST BOOK ASS'Y [For EX](MESA)	Added
A1	SQF12263	INST BOOK ASS'Y [For EI](MESA)	Added
PACKING			
PA1	SPG5081	CARTON BOX (Silver Type) [For EI](MESA)	Added
PA1	SPG5084	CARTON BOX (Silver Type) [For EB, EX, EH](MESA)	Added
PA1	SPG5080	CARTON BOX (Black Type) [For EK, EI](MESA)	Added
PA1	SPG5083	CARTON BOX (Black Type) [For EA, EX, MY, EH](MESA)	Added
PA1	SPG5082	CARTON BOX (White Type) [For EI](MESA)	Added
PA1	SPG5085	CARTON BOX (White Type) [For EA, EB, EH, EX](MESA)	Added
PA1	SPG5087	CARTON BOX (White Type) [For EF](MESA)	Added
PA1	SPG5086	CARTON BOX (Red Type) [For EH](MESA)	Added