

SERVICE MANUAL

AUDIO PROGRAM TIMER

SANSUI AT-20

(Silver & Black Model)



• SPECIFICATIONS

Clock type	12-hour digital clock
Display accuracy	Max. ± 10 sec monthly error (synchronization with AC power supply)
ON/OFF preset timer	
Preset	ON, OFF times can be preset in 1-minute units
Timer accuracy	Set time ± 0.02 sec max.
Sleep timer	Any setting up to 1 hr 59 min in 1-minute units
Time counter	Max. 1 hr 59 min 59 sec, 1-second 1-count system, switching between minutes/ seconds and hours/minutes
AC outlets	3, total capacity of 700 W
Power requirements	110 ~ 120, 220 ~ 240 V 50/60 Hz
Power consumption	5 W
Dimensions	430 mm (16-15/16") W 60 mm (2-3/8") H 136 mm (5-3/8") D
Weight	1.8 kg (4.0 lbs.) net 2.2 kg (4.9 lbs.) packed

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

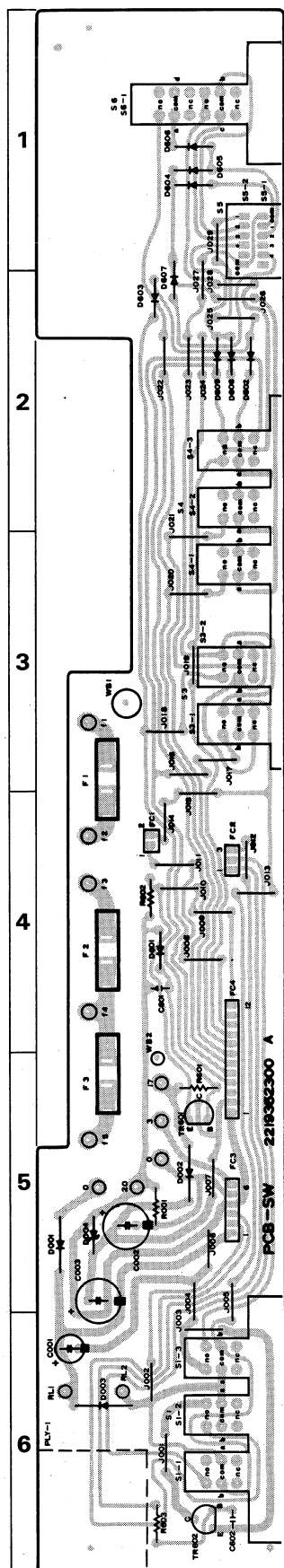
Sansui

SANSUI ELECTRIC CO., LTD.

1. PARTS LOCATION & PARTS LIST

1-1. Power Supply & Push Switch Circuit Board <This circuit board is not supplied as the assembled. However, the individual parts on the circuit board (parts list) are provided by orders.>

Component Side



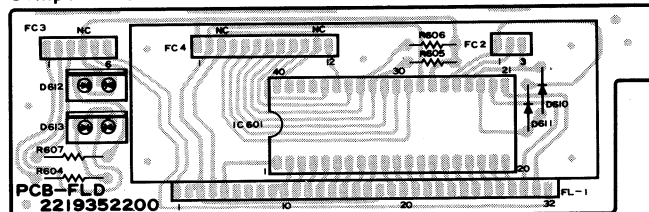
Parts List

Parts No.	Stock No.	Description
●Transistor		
TR601, 2	07194801	2SC1815
●Diode		
D001 ~ 3	07733000	1S5277B
D601 ~ 9	03110400	1S1555
●Zener Diode		
D004	03178800	RD12EB3
S1	46219000	Push SW., OUTLET CONTROL
S3	46219100	Push SW., TIMER SET
S4	46219400	Push SW., DISPLAY
S5	46219300	Push SW., FUNCTION
S6	46219200	Push SW., SECOND CHECK

1-2. IC & Display Unit Circuit Board

<Stock No. 46255400>

Component Side



Parts List

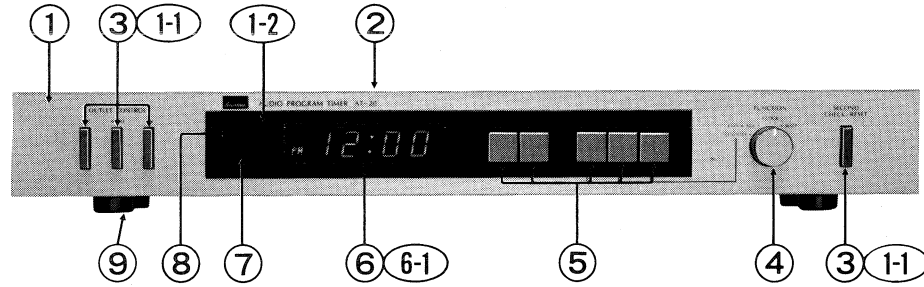
Parts No.	Stock No.	Description
●IC		
IC601	03612100	MN6076
●Diode		
D610	03110400	1S1555
D611	03110400	1S1555
●LED		
D612, 3	46218300	SEL1721Y (Yellow)
D614, 5	46218400	SEL1121R (Red)
FL1	00000200	Display Unit, 5-LT-02

● Abbreviations

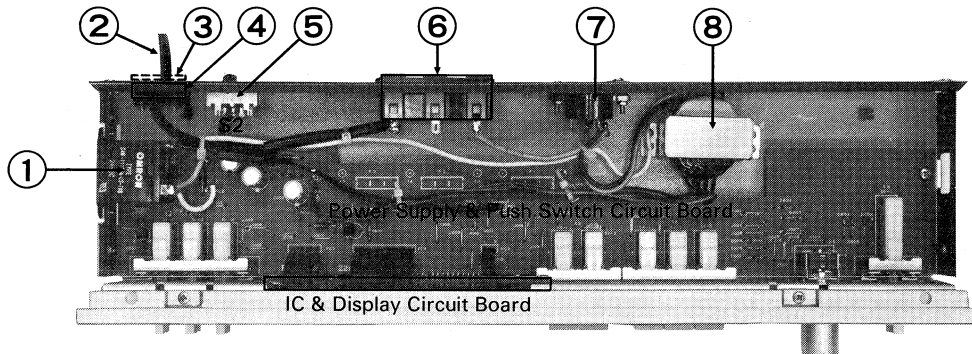
C.R. : Carbon Resistor	E.B. : Bi-Polar Electrolytic Capacitor
S.R. : Solid Resistor	E.B.L. : Low Leak Bi-Polar Electrolytic Capacitor
Ce.R. : Cement Resistor	
M.R. : Metal Film Resistor	Ta.C. : Tantalum Capacitor
F.R. : Fusing Resistor	F.C. : Film Capacitor
N.I.R. : Non-Inflammable Resistor	M.P. : Metalized Paper Capacitor
C.C. : Ceramic Capacitor	P.C. : Polystyrene Capacitor
C.T. : Ceramic Capacitor, Temperature Compensation	G.C. : Gimmic Capacitor
E.C. : Electrolytic Capacitor	V.R. : Variable Resistor
E.L. : Low Leak Electrolytic Capacitor	S.V.R. : Semi Variable Resistor
	SW. : Switch

2. OTHER PARTS

2-1. Front View



2-2. Top View



Parts List <Front View>

Parts No.	Stock No.	Description
<Silver Model Only>		
1	46220100	Front Panel Ass'y
1-1	_____	Knob Guide
1-2	_____	Smoked Plate
2	46219700	Bonnet
3	07579800	Push Knob, SECOND, OUTLET CONTROL
4	07614200	Knob, FUNCTION
5	46219900	Push Knob, TIMER SET, DISPLAY
<Black Model Only>		
1	46320800	Front Panel Ass'y
1-1	_____	Knob Guide
1-2	_____	Smoked Plate
2	46320500	Bonnet
3	07580000	Push Knob, SECOND, OUTLET CONTROL
4	46320700	Knob, FUNCTION
5	46320600	Push Knob, TIMER SET, DISPLAY

Parts No.	Stock No.	Description
<Common Parts>		
6	00000200	Display Unit, 5-LT-02
6-1	46225500	Holder, display unit
7	46218400	OUTLET Indicator LED (Red)
8	46218300	AUTO Indicator LED (Yellow)
9	46220000	Leg

Parts List <Top View>

Parts No.	Stock No.	Description
1	46320200	Relay
2	38004700	Power Supply Cord
3	46320300	Cord Cramp (1)
4	46320400	Cord Cramp (2)
5	46219500	Slide SW., 50 Hz/60 Hz
6	46320100	AC Outlet
7	46320000	Voltage Selector SW.
8	46319900	Power Transformer

3. PACKING LIST

Stock No.	Description
46218000	Carton Case
46218100	Styrofoam Packing

4. ACCESSORY LIST

Stock No.	Description
46190200	Operating Instruction
46218200	Mounting Holder <Silver Model>
46320900	Mounting Holder <Black Model>
_____	Power Cord Clamp

D



	SELECT				DISP.LAY				TIME ADJ.			
	M0	M2	M3	D4	D5	D2	D1		SLOW		FAST	
Fundamental clock (F0/Hz/Min/sec)	L	L	L	10H	1M	1M	1M		2 Hz U/D	50/80 Hz U/D		
Fundamental clock divided (Sec/Min)	L	L	L	—	1M	10S	1S		STOP	RESET		
Stop watch On time	L	L	L	10H	1H	10M	1M		2 Hz U/D	50/80 Hz U/D		
Stop watch OFF time	H	H	L	—	1H	10M	1M		2 H/D	50/80 Hz D		
Time for setting Stop watch	L	L	H	10H	1H	10M	1M		2 Hz U/D	50/80 Hz U/D		
Stop watch (Min/Hz/Min/sec)	H	L	H	—	1H	10M	1M		START/STOP	RESET		
Stop watch (Min/Sec/Min/sec)	L	H	H	—	1M	10S	1S		START/STOP	RESET		

Printed in Japan (320030M) <Stock No. 36464700>