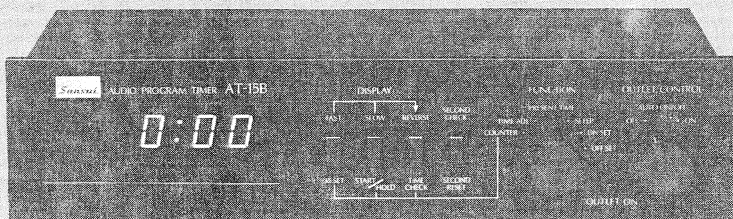


SERVICE MANUAL

AUDIO TIMER

SANSUI AT-15B AT-15S



SPECIFICATIONS

Clock type	24-hour digital clock
Indication accuracy	Within ± 10 seconds a month (AC power supply synchronizing system)
On/off preset timer	
Preset	On/off time can be preset at will by units of minute.
Timer accuracy	Within ± 0.02 second of the set time
Sleep timer	Time of up to 1 hour 59 minutes can be set at will by units of minute
Timer counter	Capable of counting up to 1 hour 59 minutes 59 seconds 1 count for 1 second Indication is available in minute/second and hour/minute modes.
AC outlet	2 outlets, 700 W in total.
Power supply voltage	110 to 120 V/220 to 240 V (with the power supply voltage selector switch).
Power supply frequency	50/60 Hz (with the frequency selector switch).
Power consumption	7 W
Dimensions	270 mm (10-11/16") W 71 mm (2-13/16") H 121.5 mm (4-13/16") D
Weight	1.2 kg (2.6 lbs.) net 1.5 kg (3.3 lbs.) packed

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



SANSUI ELECTRIC CO., LTD.

1. PARTS LOCATION & PARTS LIST

Photo-1

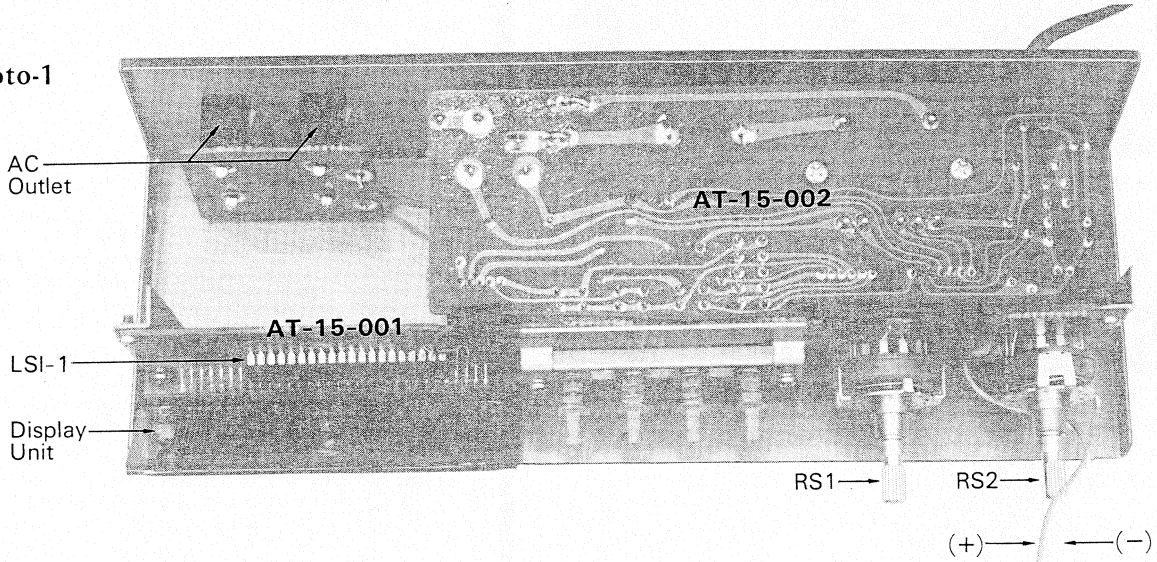


Photo-2

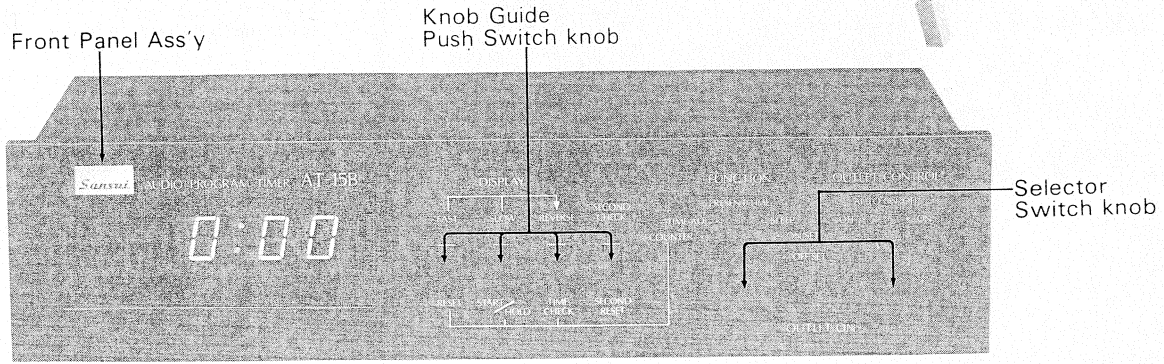
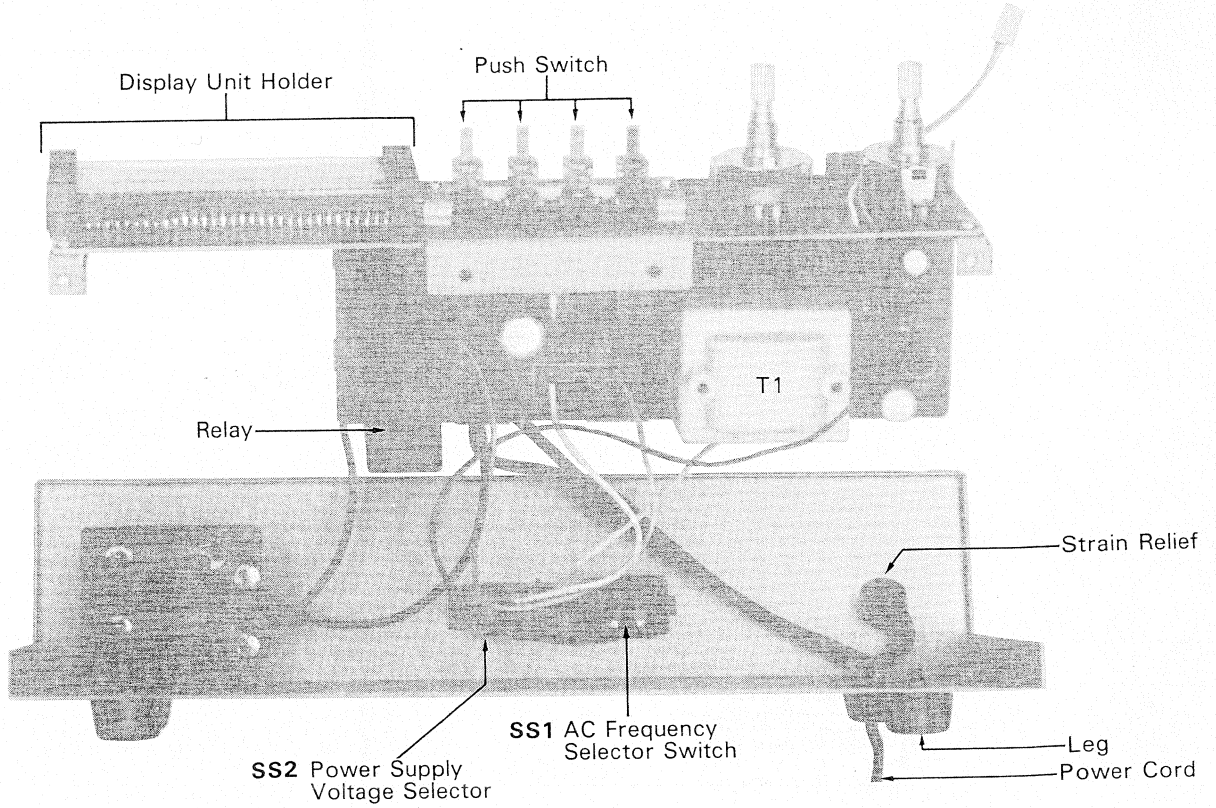


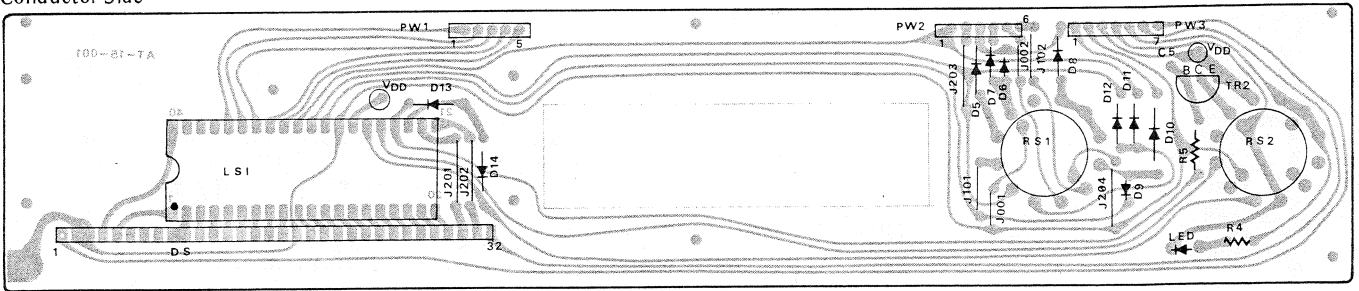
Photo-3



1-1. IC & Display Unit Circuit Board (AT-15XX-001)

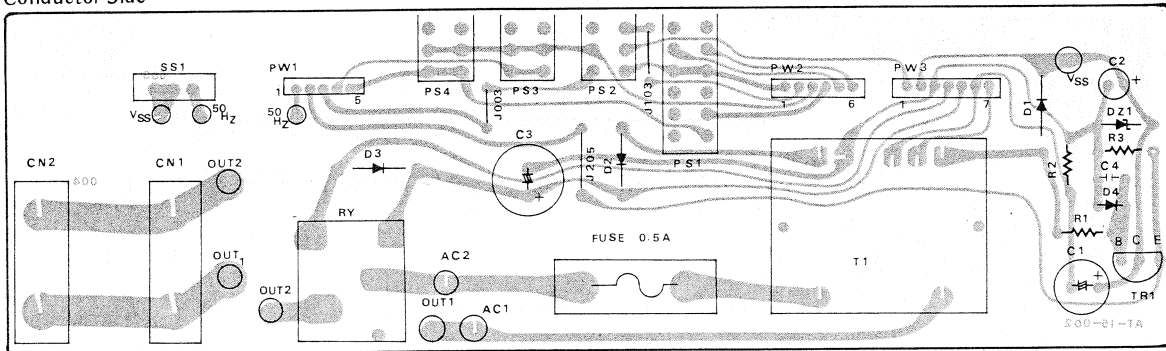
Note: The circuit board, AT-15-001/AT-15-002 are not supplied as the assembled, the individual parts on the circuit board, however, are provided for orders.

Conductor Side



1-2. Power Supply & Push Switch Circuit Board (AT-15XX-002)

Conductor Side

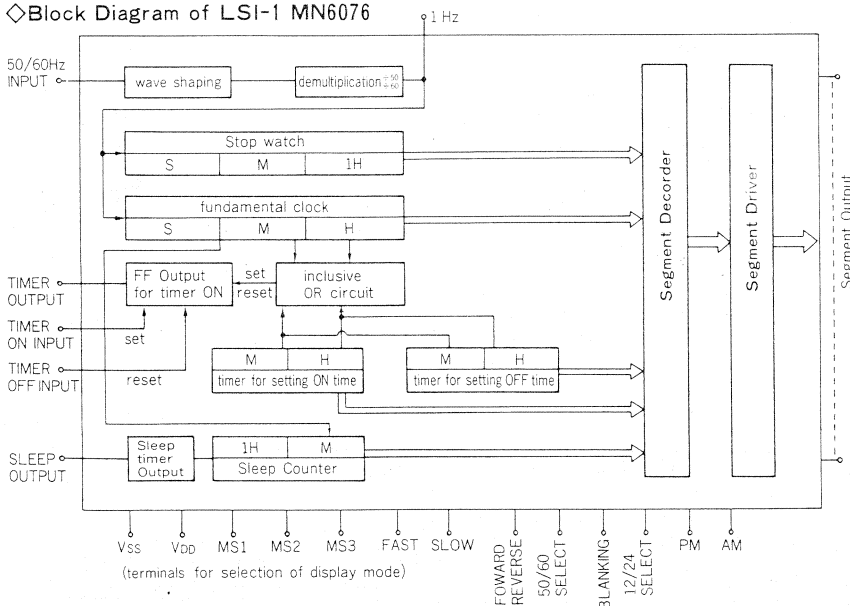


Parts List < Photo-1, 2, 3 / Circuit Board 1-1, 1-2 >

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
• Transistor			RS1	11019400	Function Switch	53194800		Push Knob B
TR1, 2	03069502	2SC945	RS2	11019500	Outlet Control Switch	53194900		Push Knob S
• IC			T 1	40031400	Power Transformer	55173400		Leg
LS11	03612100	MN6076	PS 1 ~ 4	11320400	Push Switch	52965300		Display Unit Holder
• Diode						50070000		Bonnet
D 01 ~ 03	03117400	1N4002	CN1, 2	24501100	AC Outlet	39108200		Strain Relief, AC Cord
D 04 ~ 14	03111800	1S1588		38004701	AC Cord	11104200		Slide Switch, power supply
ZD01	03162900	RD12EB		07108700	Front Panel Ass'y. B	52970600		Switch Stopper
DS1	00000200	Display Unit		07108100	Front Panel Ass'y. S			
RY	11505800	Relay		53967900	Smoked Plate			
SS 1	11104100	AC Frequency Selector Switch		53967700	Knob Guide B			
				53967800	Knob Guide S			
				03191200	LED			
				07108600	Selector Knob B			
				07108000	Selector Knob S			

Note: Since there are AT-15B & AT-15S in the parts list above, please pay attention when ordering Parts. Parts marked (B) in parts list for AT-15B only. Parts marked (S) in parts list for AT-15S only.

◇ Block Diagram of LSI-1 MN6076

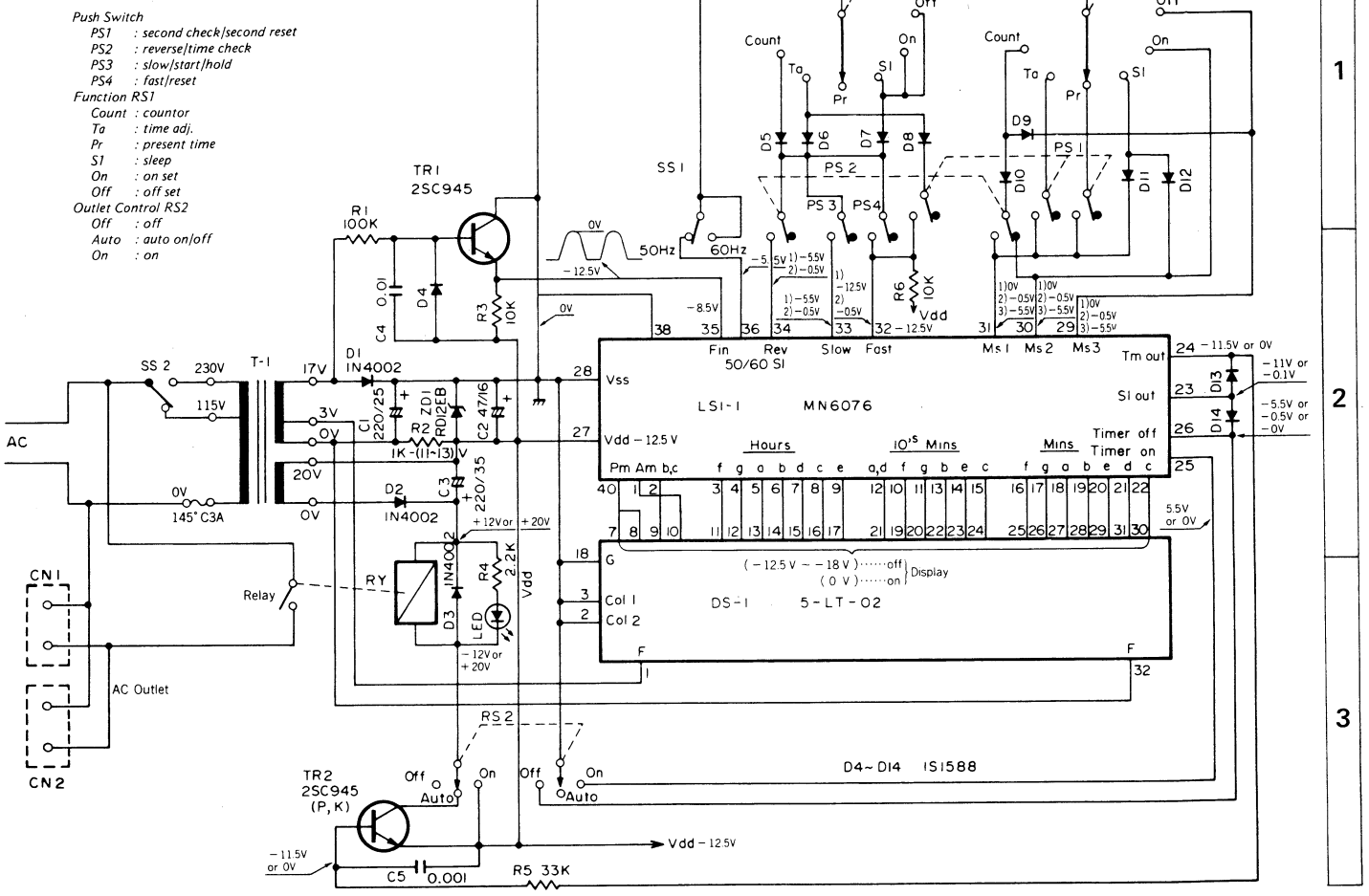


● REPLACEMENT OF IC & DISPLAY UNIT

1. Remove bonnet and front panel ass'y.
2. Take out IC and display unit to this side.
3. Take off display unit holder at both sides then replace the IC to lean display unit toward this side. (The leads of display unit do not break off if the bending is within few times).

• Design and specifications subject to change without notice for improvement.
 • La présentation et les spécifications sont susceptibles d'être modifiées sans préavis par suites d'améliorations éventuelles.
 • Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

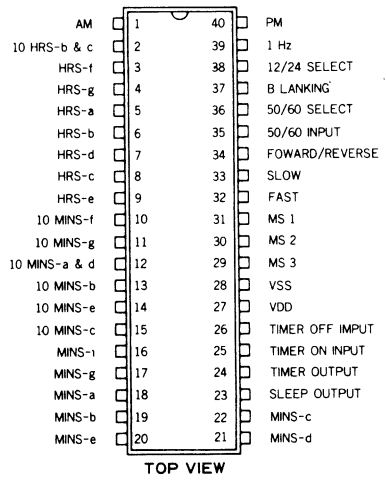
2. SCHEMATIC DIAGRAM



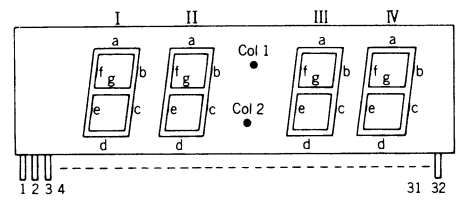
- Push Switch**
 PS1 : second check/second reset
 PS2 : reverse/time check
 PS3 : slow/start/hold
 PS4 : fast/reset
- Function RS1**
 Count : countor
 Ta : time adj.
 Pr : present time
 Sl : sleep
 On : on set
 Off : off set
- Outlet Control RS2**
 Off : off
 Auto : auto on/off
 On : on

Input terminal voltage of LSI-1
 No. 29, 30, 31 : 1) grounded 2) grounded through Diode 3) ungrounded
 No. 32 : 1) -VDD 2) grounded through Diode
 No. 33, 34 : 1) ungrounded 2) grounded through Diode

◇LSI-1 MN6076



◇Display Unit DS-1



Segment	AM	PM	(b, c)	a, b, c, d, e, f, g	Cd1, Cd2	(a, b)									
Pin of Display Unit	5	4	(9, 10)	13 14 16 15 17 11 12	3 2	21									
			I	II		III									
	b	c	e	f	a	b	c	d	e	f	g	Ground	Heater	Heater	
	22	24	23	19	20	27	28	30	31	29	25	26	18	11	32
	III			IV											

