

ADDITIONAL



Service Manual

ORDER NO.
ARP-334-0

AUDIO DIGITAL TIMER

DT-540_{YB,KU,S/G,S}

- This service manual is applicable to the YB, KU, S/G, S types.
- The basic performance of the YB, KU, S/G and S types are the same as the NE, YP types. Please refer to the DT-540 service manual (ARP-333-0) with the exception of this service manual.

SPECIFICATIONS

The specifications for YB, KU, S/G and S are the same as the NE type except for following sections:

Timer type (YB) 24-hour type
(24-hour display)
(KU, S/G, S) 24-hour type
(AM/PM, 12-hour display)

Power section, others

Power requirements KU model AC 120 V 50 Hz
S, S/G model . . . AC110V/120V/120V/240V (switchable)
50Hz/60Hz (switchable)
YB model a.c. 240 volts ~, 50 Hz

CONTRAST OF MISCELLANEOUS PARTS

- NOTES:
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560Ω 56 × 10¹ 561 RD½PS 561 J
47kΩ 47 × 10³ 473 RD½PS 473 J
0.5Ω 0R5 RN2H 0R5 K
1Ω 010 RS1P 010 K
Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ 562 × 10¹ 5621 RN¼SR 5621 F
 - The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - For your Parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
★★ GENERALLY MOVES FASTER THAN ★
This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

Mark	Symbol & Description	Part No.					Remarks
		NE type	YB type	KU type	S/G type	S type	
⚠ ★	Front panel assembly	ANM-404	ANM-404	ANM-429	ANM-429	ANM-429	
	T1 Power transformer (220V)	ATS-012	...	...	...	...	
	(240V)	...	ATS-029	...	...	...	
	(120V)	...	...	ATS-011	...	...	
	(110, 120, 220, 240V)	...	...	...	ATT-951	ATT-951	
⚠	AC power cord	ADG-068	ADG-063	ADG-073	ADG-060	ADG-060	
⚠ ★★	S7 Slide switch	ASH-501	ASH-501	...	...	...	
⚠	AC socket (AC OUTLET)	AKP-026	AKP-509	AKP-040	AKP-040	AKP-040	
	Timer assembly	GWX-895	GWX-895	GWX-896	GWX-878	GWX-878	
⚠ ★★	FU1 Fuse T2.5A	AEK-403	AEK-403	...	...	...	
⚠ ★★	S9 Line voltage selector	...	...	...	AKX-063	AKX-063	
	Operating instruction	ARE-072	ARE-072	...	...	...	
	(English/German/French/Italian)	...	...	ARB-553	ARB-553	ARB-553	
	(English)	...	...	...	...	ARC-053	
	(Spanish)	AHE-197	AHE-197	AHE-242	AHE-242	AHE-242	
	Packing case	...	AEA-062	...	...	...	
	AC plug						

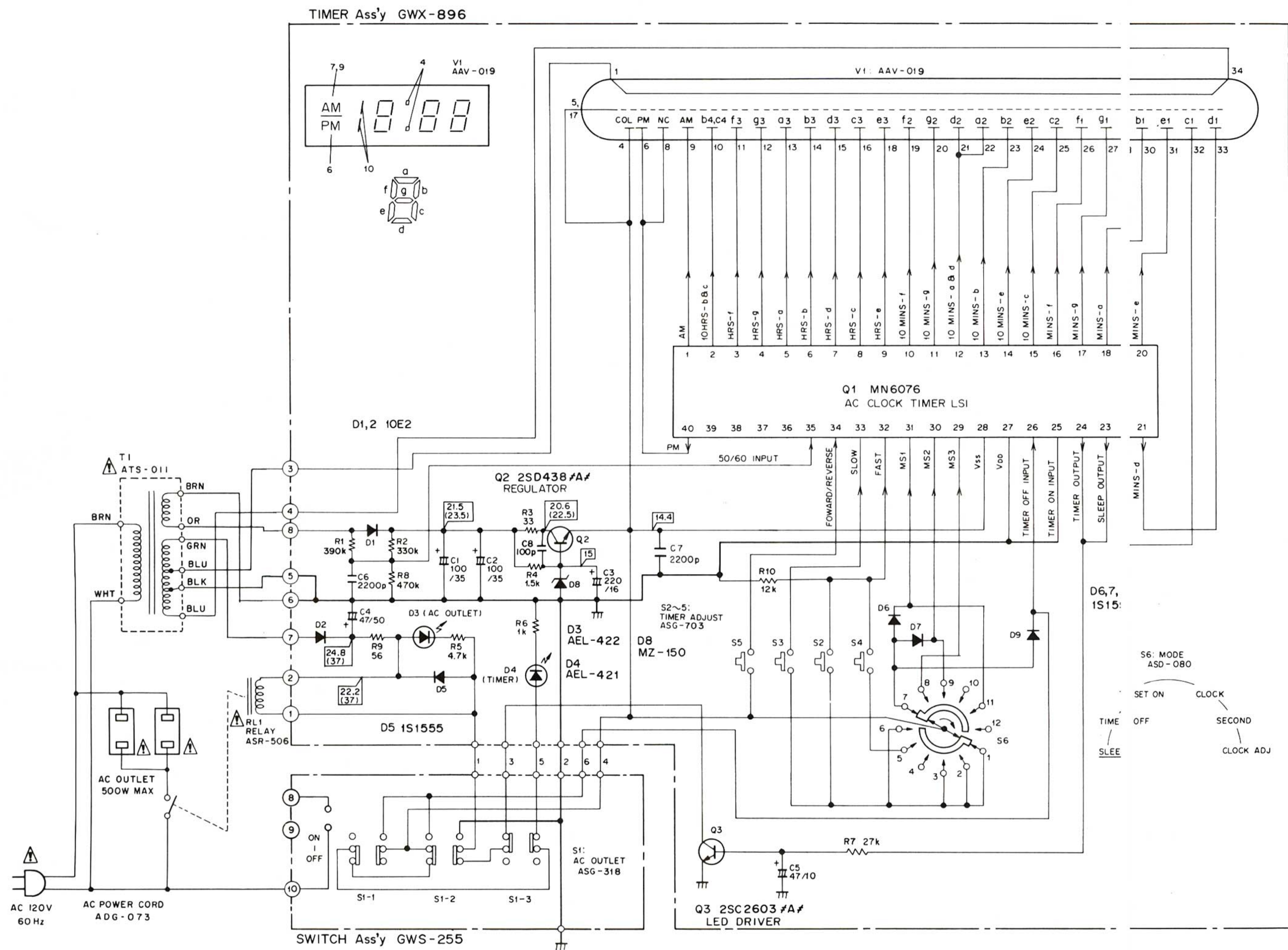
The Timer assembly GWX-896 (KU type), GWX-878 (S/G, S type) are the same as the GWX-895 (NE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		GWX-895 (NE)	GWX-896 (KU)	GWX-878 (S, S/G)	
★	V1 Fluorescent indicator tube	AAV-020	AAV-019	AAV-019	
★★	S8 Slide switch	...	...	ASH-024	Line frequency

SCHEMATIC DIAGRAM (KU, YB types)

NOTE:

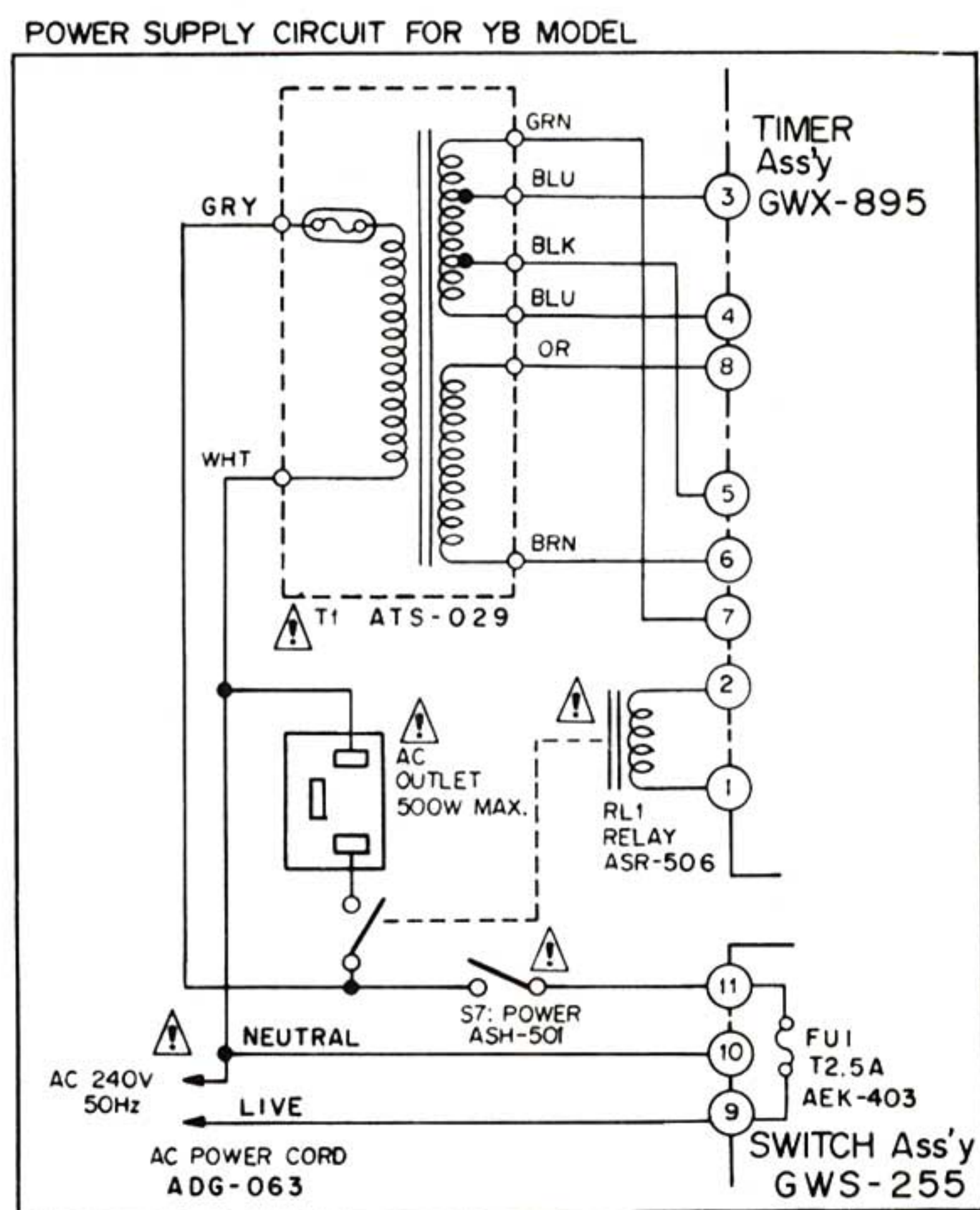
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



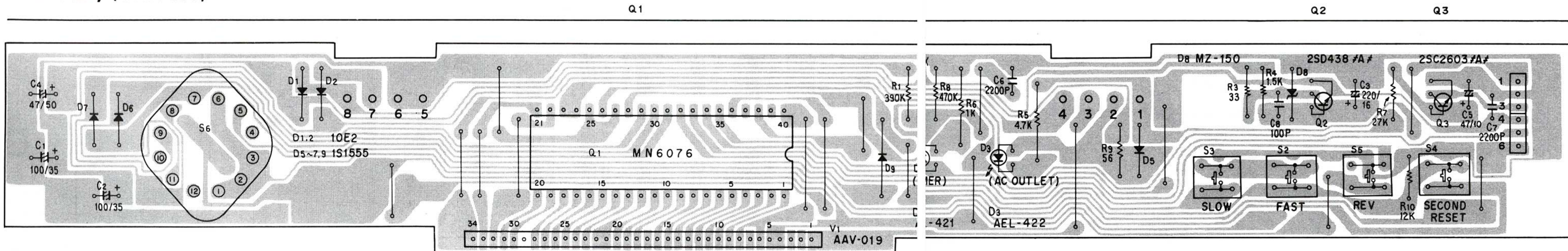
- RESISTORS:**
Indicated in Ω , $\frac{1}{2}W$, $\pm 5\%$ tolerance unless otherwise noted k: k Ω , M: M Ω , (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$ tolerance
- CAPACITORS:**
Indicated in capacity (μF)/voltage (V) unless otherwise noted p: pF
Indication without voltage is 50V except electrolytic capacitor.
- VOLTAGE**
□: DC voltage (V) at TIMER, RELAY ON.
Value in () is DC voltage at AC OUTLET OFF.
- OTHERS:**
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- SWITCHES:**
S1-1: AC OUTLET (OFF) ON - OFF
S1-2: AC OUTLET (ON) ON - OFF
S1-3: AC OUTLET (TIMER) ON - OFF
S2: TIME ADJUST (FAST) ON - OFF
S3: TIME ADJUST (SLOW) ON - OFF
S4: TIME ADJUST (SEC RESET) ON - OFF
S5: TIME ADJUST (REV) ON - OFF
S6: MODE
SLEEP - TIMER SET OFF - TIMER SET ON -
CLOCK - SECOND - CLOCK ADJUST

The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.



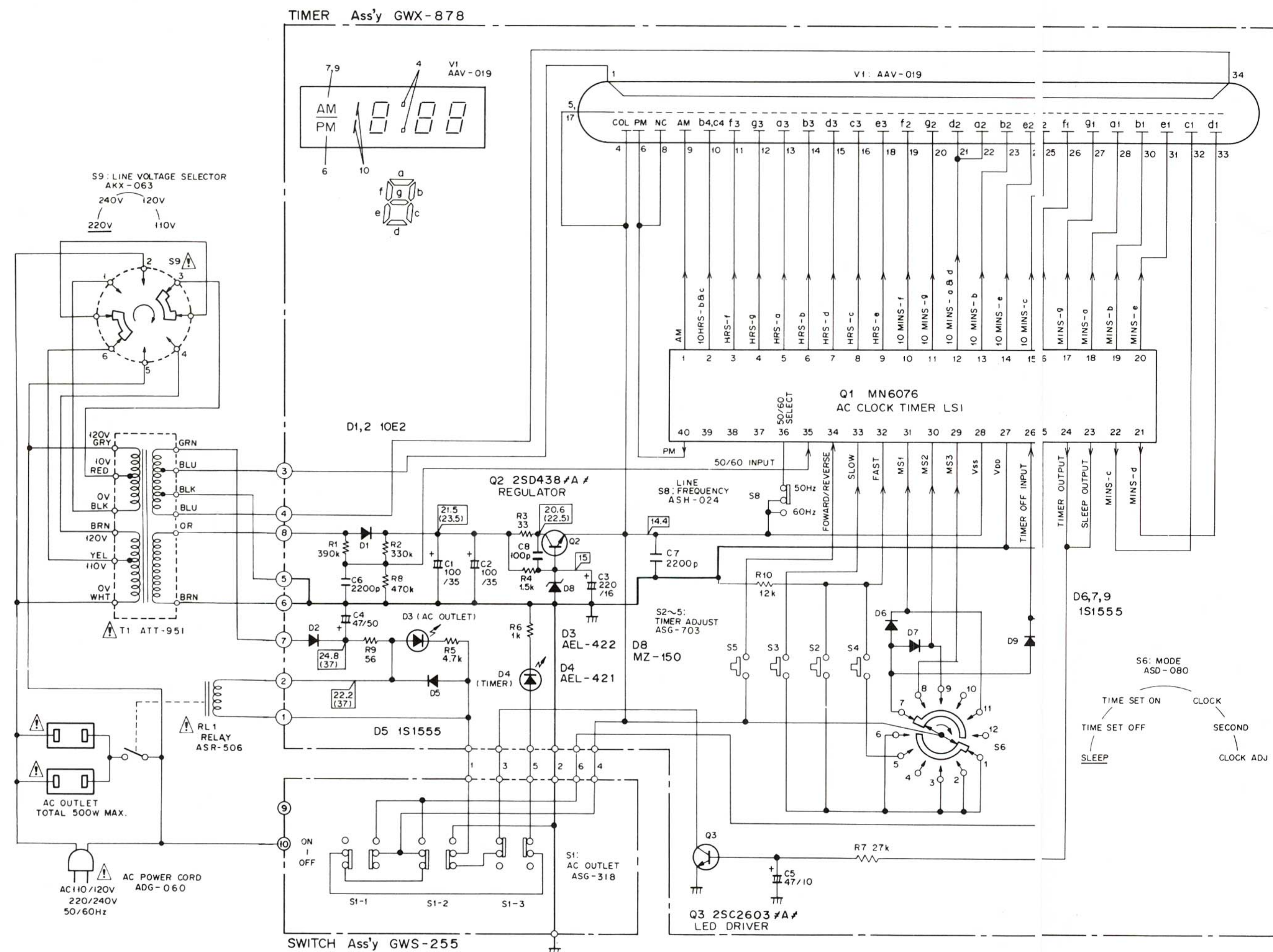
Timer Ass'y (GWX-896)



SCHEMATIC DIAGRAM (S/G, S Types)

NOTE:

The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



1. RESISTORS:
Indicated in Ω , $\frac{1}{4}W$, $\frac{1}{2}W$, $\pm 5\%$ tolerance unless otherwise noted k; k Ω , M; M Ω , (F); $\pm 1\%$, (G); $\pm 2\%$, (K); $\pm 10\%$, (M); $\pm 20\%$ tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p; pF. Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE
□: DC voltage (V) at TIMER, RELAY ON
□: Value in () is DC voltage at AC OUTLET OFF

4. OTHERS:
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

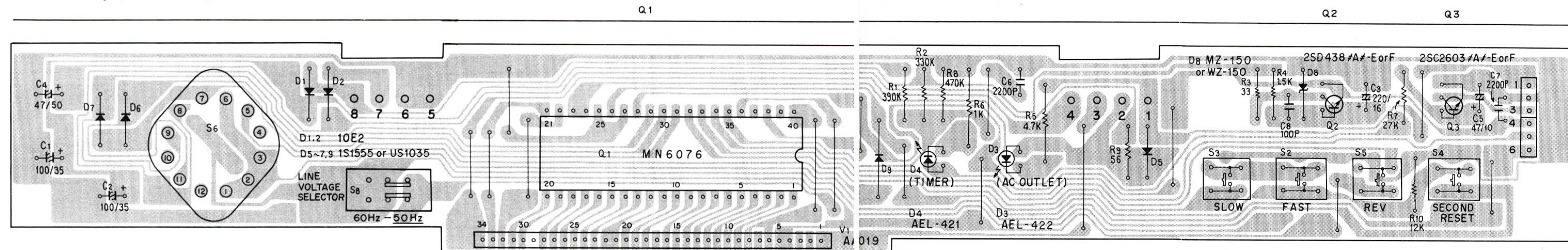
SWITCHES:

S1-1: AC OUTLET (OFF) ON - OFF
S1-2: AC OUTLET (ON) ON - OFF
S1-3: AC OUTLET (TIMER) ON - OFF
S2: TIME ADJUST (FAST) ON - OFF
S3: TIME ADJUST (SLOW) ON - OFF
S4: TIME ADJUST (SEC RESET) ON - OFF
S5: TIME ADJUST (REV) ON - OFF
S6: MODE
SLEEP - TIMER SET OFF - TIMER SET ON -
CLOCK - SECOND - CLOCK ADJUST
S8: LINE FREQUENCY 50Hz - 60Hz
S9: LINE VOLTAGE SELECTOR
110V - 120V - 220V - 240V

The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

Timer Ass'y (GWX-878)





SERVICE INFORMATION

No. SI-T84010
Date: November, 1983

CORRECTION TO SERVICE MANUAL

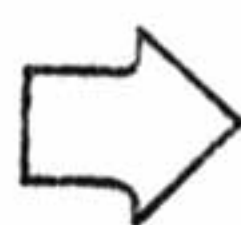
MODEL: DT-540

[ARP-333]

PAGE: 6

Part No. of Switch Ass'y has been misprinted.
Please correct Service Manual as follows:

Switch Ass'y
GWS-225



Switch Ass'y
GWS-255

