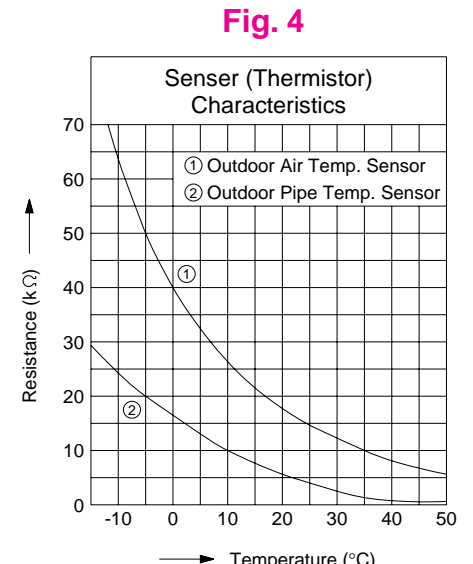
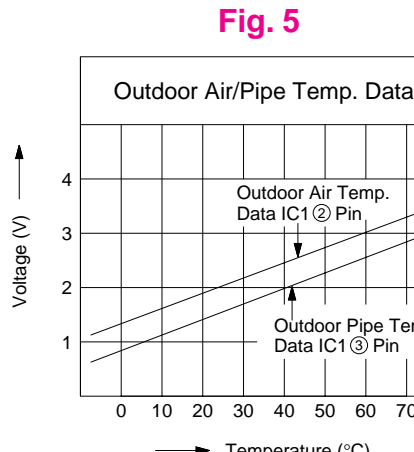
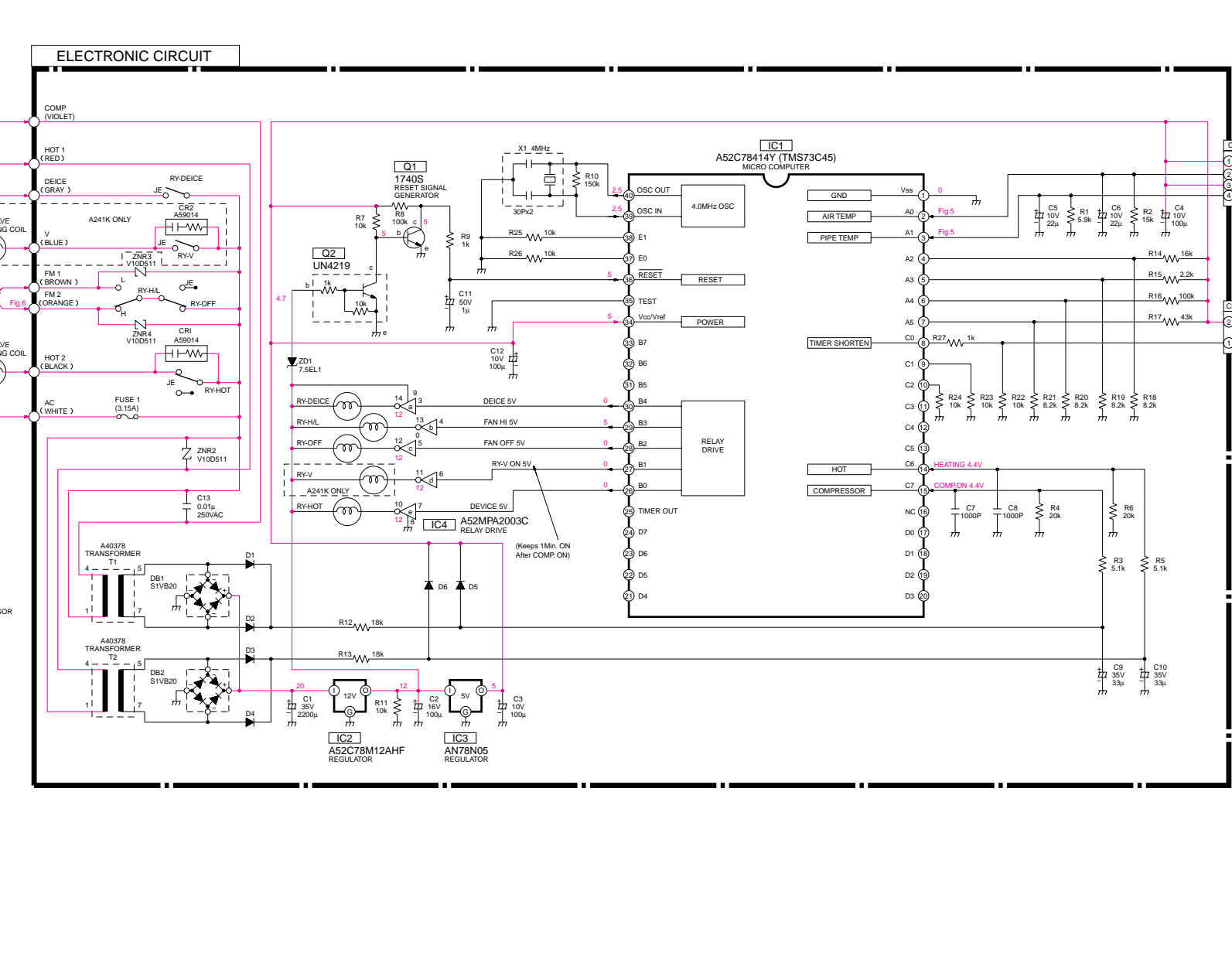
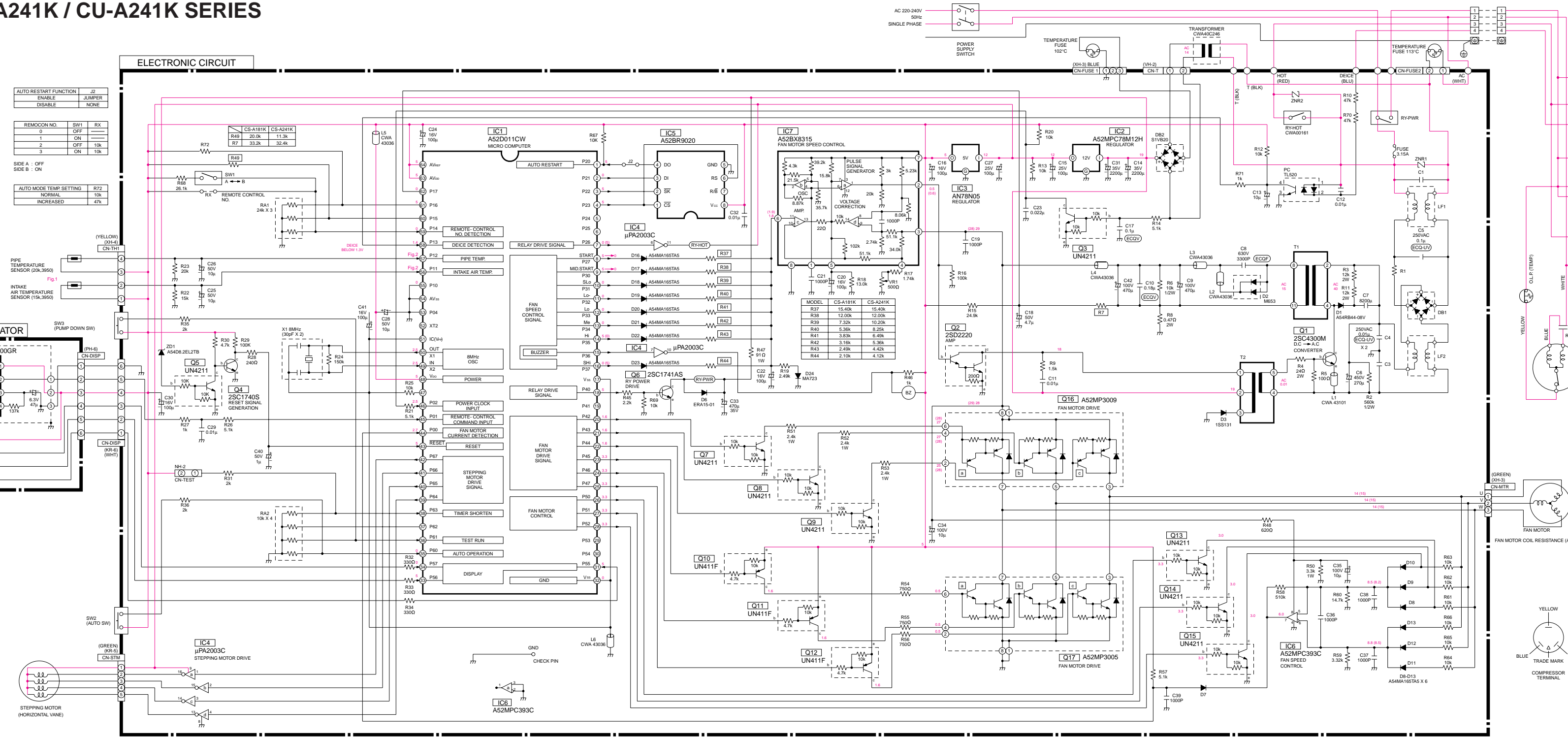


**ELECTRONIC CIRCUIT DIAGRAM**

- CS-A181K / CU-A181K SERIES
- CS-A241K / CU-A241K SERIES

G  
F  
E  
D  
C  
B  
A

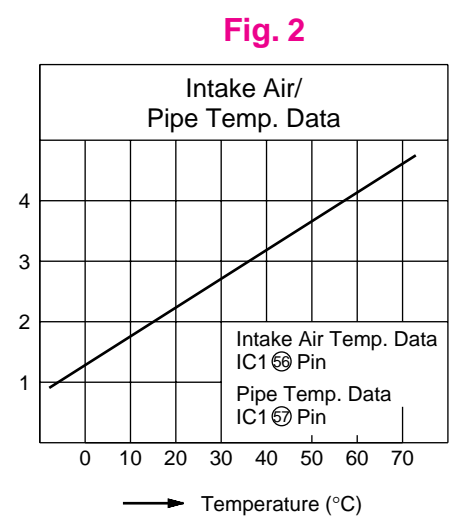
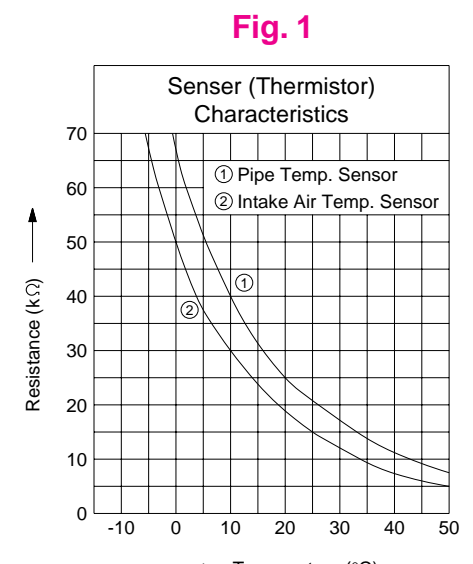


**Fig. 3 Indoor Fan Speed**

Fan Speed	No.	High Speed ↔ Low Speed								
		8	7	6	5	4	3	2	1	0
Cooling	Manual		○	○	○					○
	Auto		○	○			○			○
	Sleep						○			○
Soft Dry	Manual, Auto						○			○
	Sleep						○			○
	Auto			○	○	○	○	○		○
Heating	Manual (A181K)	○								○
	Manual (A241K)	○	○							○
	Auto			○	○	○	○	○		○
Sleep						○	○		○	
Voltage to Fan Motor Drive Transistor (DCV)	CS-A181K	34.2	32.5	27.8	23.5	18.3	14.5	12.0	8.0	0
	CS-A241K	52.8	47.8	41.4	26.3	28.0	21.1	12.0	8.0	0
		SHi	Hi	Me	Lo	Lo-	SLo	MID START	START	STOP

**Fig. 6**

OUTDOOR TEMP.	RISES		FALLS	
	OVER 29°C	Hi	OVER 31°C	Hi
COOLING	OVER 29°C	Hi	OVER 31°C	Hi
SOFT DRY	BELOW 29°C	Lo	BELOW 31°C	Lo
HEATING	BELOW 15.5°C	Hi	BELOW 13.5°C	Hi
	OVER 15.5°C	Lo	OVER 13.5°C	Lo



**How to use electronic circuit diagram**

Before using the circuit diagram, read the following carefully.

\* Voltage measurement  
Voltage has been measured with a digital tester when the indoor fan is set at high fan speed under the following conditions without setting the timer.  
Use them for servicing.  
Voltage indication is in Red at all operations.

	Intake air temperature	Temperature setting	Discharge air temperature	Pipe temperature
Cooling	27°C	16°C	17°C	15°C
Heating	20°C	30°C	40°C	50°C

\* Indications for resistance  
a. K.... k M ... M  
W... watt Not indicated .... 1/4W  
b. Type  
Not indicated ..... carbon resistor  
Tolerance±5%  
..... metal oxide resistor  
Tolerance±1%

\* Indications for capacitor  
a. Unit μ .... μF P .... pF  
b. Type  
(S) ..... S series aluminium electrolytic capacitor  
(Z) ..... Z series aluminium electrolytic capacitor  
(SU) ..... SU series aluminium electrolytic capacitor  
(P) ..... P series polyester system  
(SXE) ..... SXE series aluminium electrolytic capacitor  
(SRA)..... SRA series aluminium electrolytic capacitor  
(KME).....KME series aluminium electrolytic capacitor

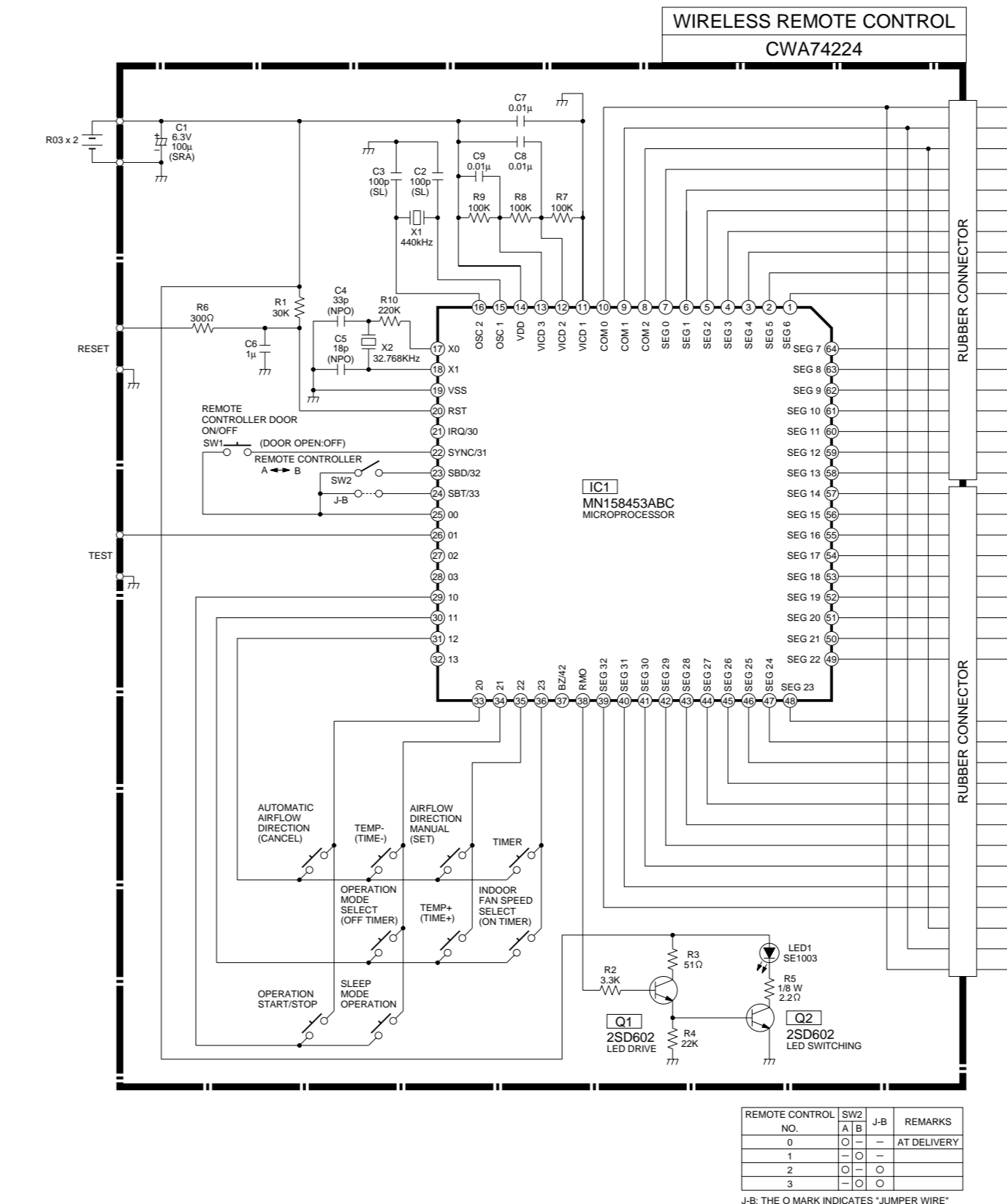
\* Diode without indication .....MA165  
× Circuit Diagram is subject to change without notice for further development.

**TIMER TABLE**

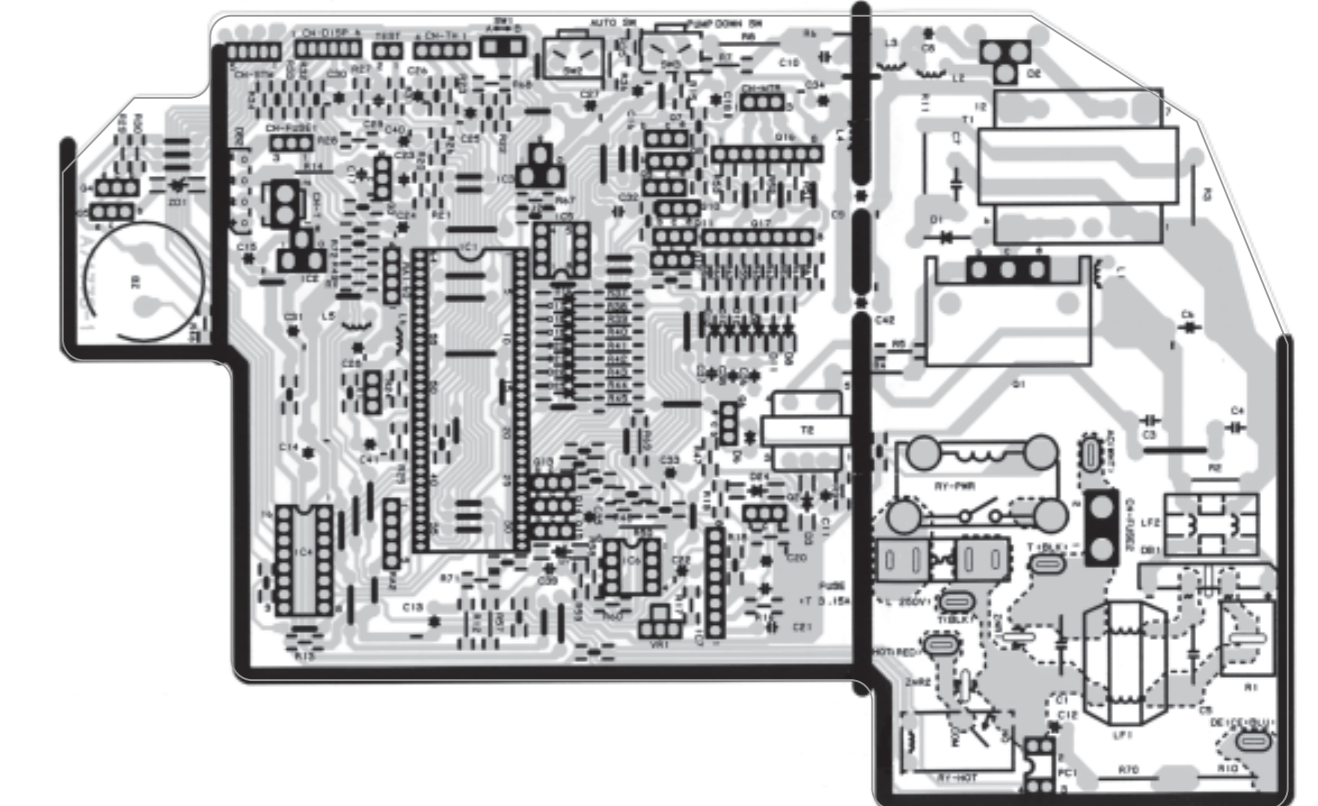
Name	Time	Test mode (When test point Short-circuited)	Remarks	
Sleep Mode Waiting	1 hr.	6 sec.		
Sleep Mode Operation	8 hrs.	48 sec.		
Real Timer	1 hr.	1 min.		
	10 min.	10 sec.		
Time Delay Safety Control	1 min.	1 sec.		
	2 min. 58 sec.	0 sec.		
Forced Operation	60 sec.	0 sec.		
Time Save Control	7 min.	42 sec.		
Anti-Freezing Control	4 min.	0 sec.		
Mode Judgement	20 sec.	0 sec.		
Soft Dry	Off	6 min.	36 sec.	
	On	10 min.	60 sec.	
Deodorizing Control	Cooling	40 sec	4 sec.	Comp. ON
		70 sec.	7 sec.	Comp. ON
	Soft Dry	20 sec.	2 sec.	Comp. OFF
		180 sec.	18 sec.	Comp. OFF
		40 sec.	4 sec.	Comp. ON
360 sec.	36 sec.	Comp. OFF		
Indoor Fan Step Change	1 sec.	0 sec.		
After Deice Ended	30 sec.	3 sec.	Comp. OFF, F/Motor ON	
4-Way valve	5 min.	30 sec.		

**ELECTRONIC CIRCUIT DIAGRAM**

● REMOTE CONTROL



**PRINT PATTERN INDOOR UNIT PRINTED CIRCUIT BOARD**



**PRINT PATTERN OUTDOOR UNIT PRINTED CIRCUIT BOARD**

