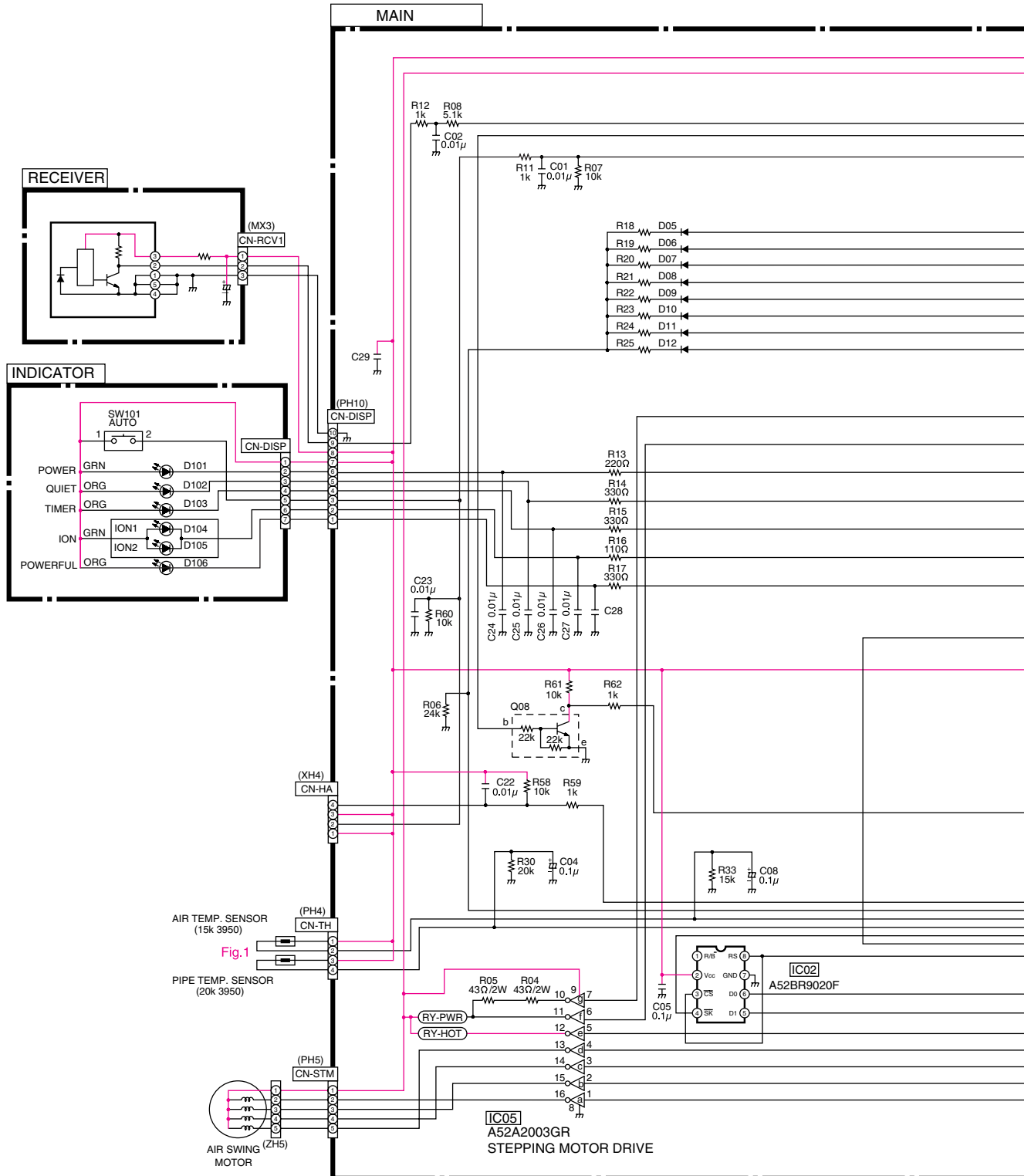


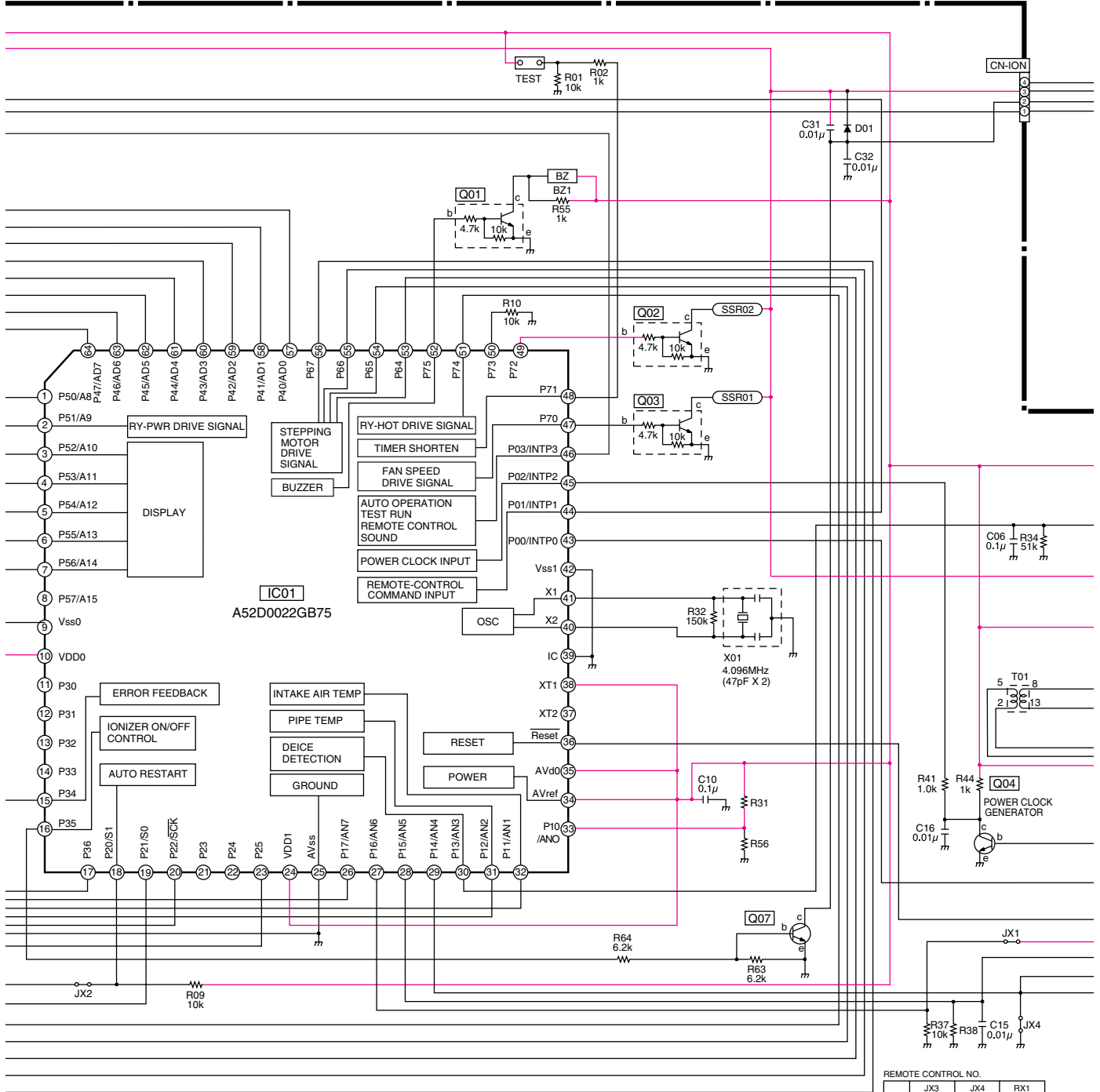
# 19 Electronic Circuit Diagram

- CS-A7CK / CU-A7CK
- CS-A9CK / CU-A9CK
- CS-A12CK / CU-A12CK

SCHEMATIC DIAGRAM 1/3



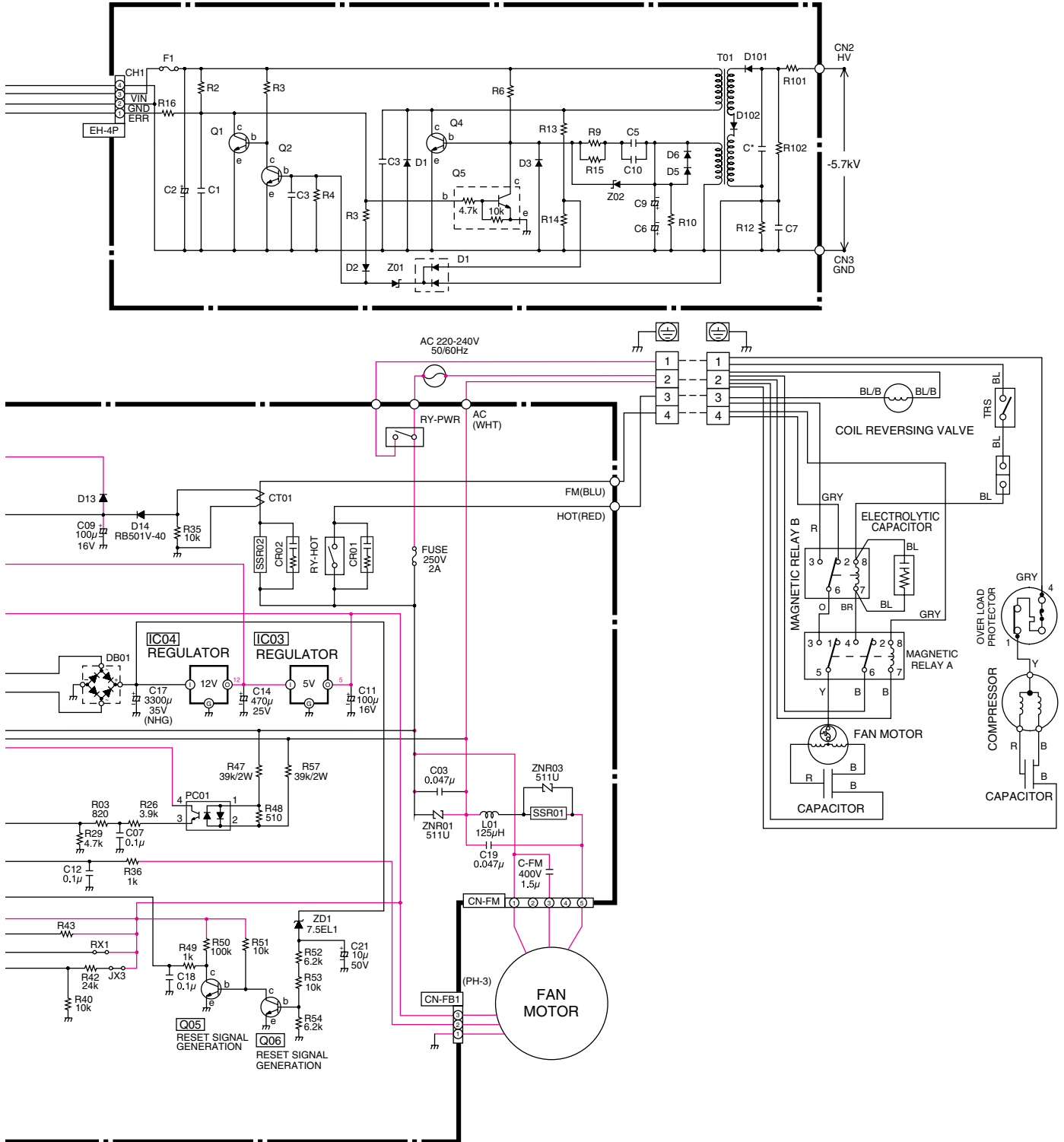
SCHEMATIC DIAGRAM 2/3

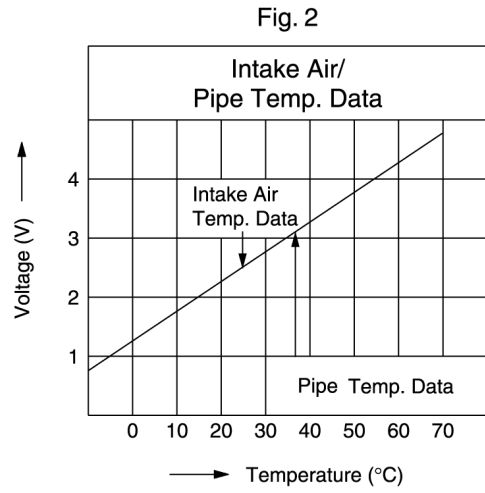
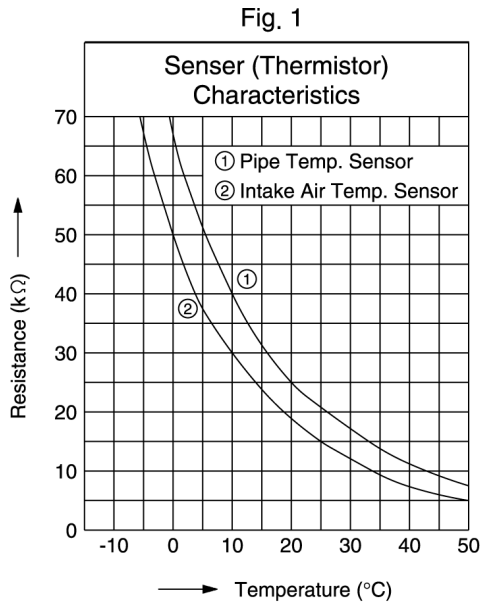


REMOTE CONTROL NO.

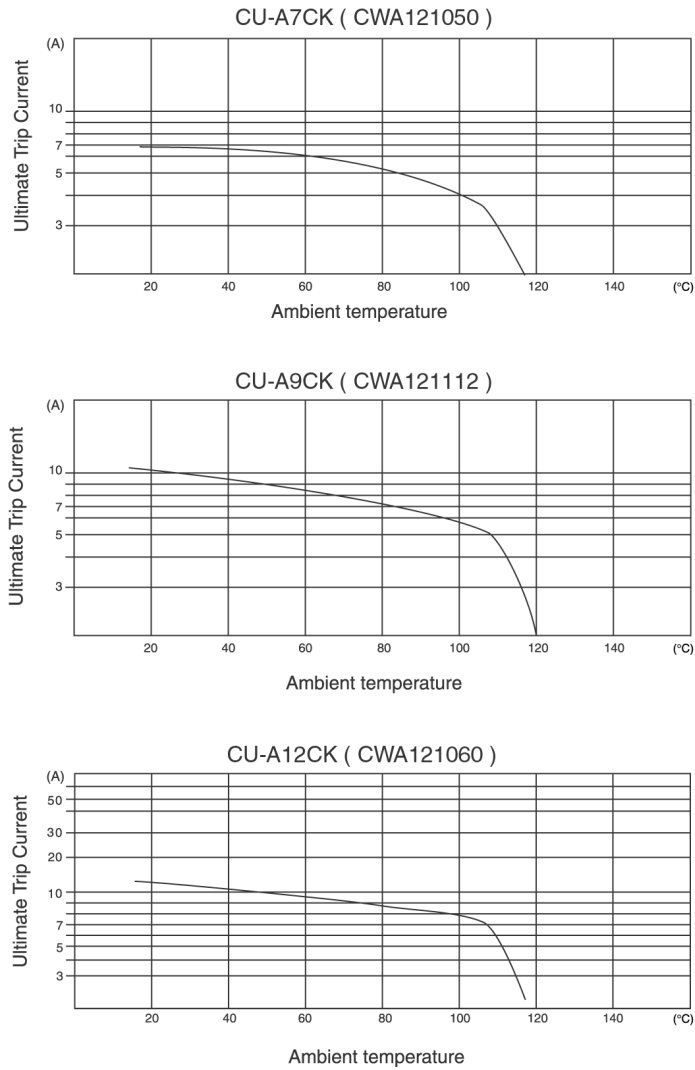
	JX3	JX4	RX1
0	SHORT	SHORT	—
1	SHORT	OPEN	—
2	OPEN	OPEN	10KΩ
3	SHORT	OPEN	10KΩ

**SCHEMATIC DIAGRAM 3/3**





**Fig. 3 OLP Characteristics (Compressor)**



**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

**\* Indications for resistance**

a. K....kΩ                      M....MΩ  
 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    Not indicated....ceramic capacitor  
 (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

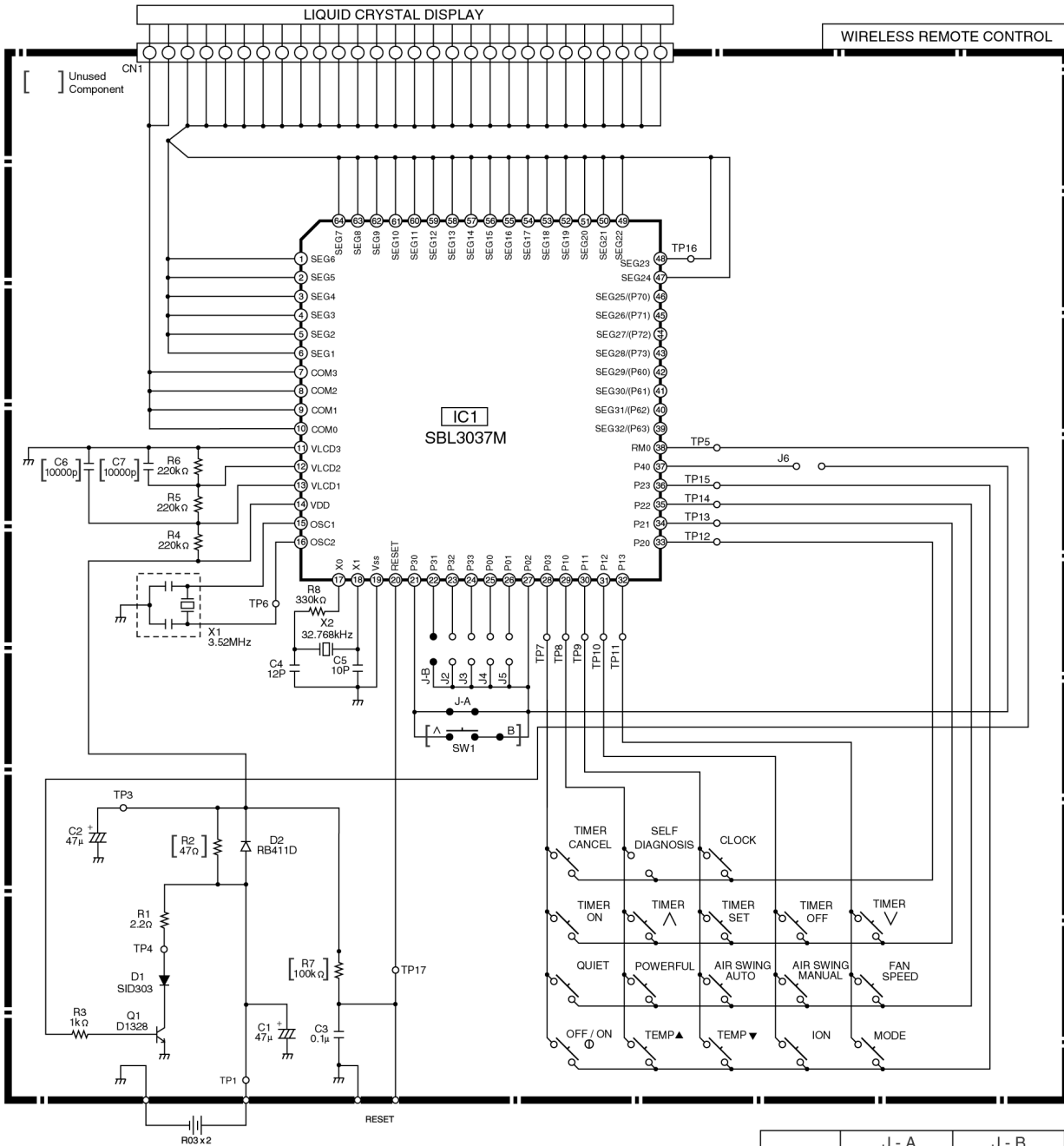
\* Diode without indication.....MA165

※ Circuit Diagram is subject to change without notice for further development.

**TIMER TABLE**

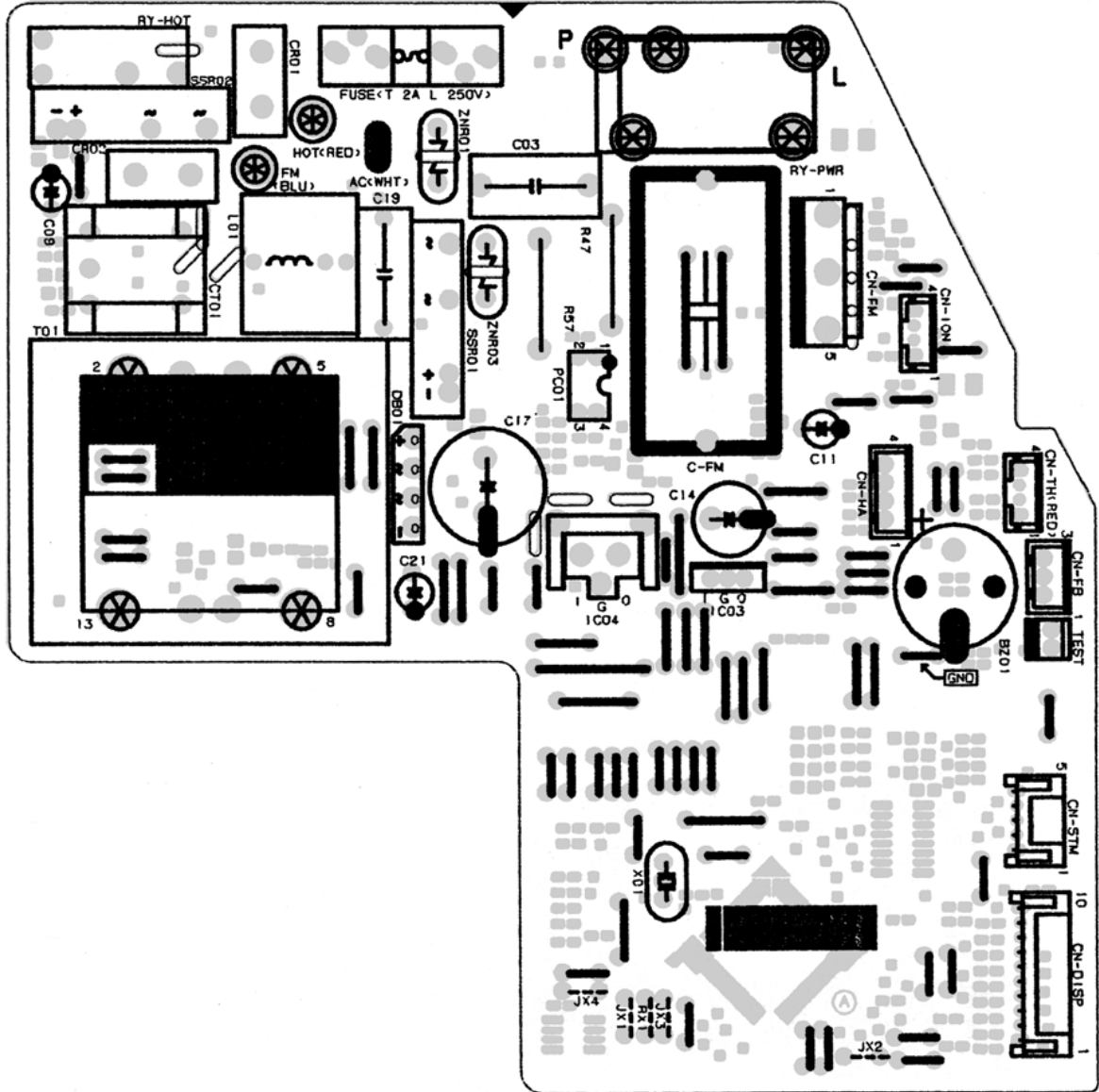
Name	Time	Test Mode (When test point Short-circuited)	Remarks
Real Timer	1 hr.	1 min.	
	10 min.	10 sec.	
	1 min.	1 sec.	
Time Delay Safety Control	2 min. 58 sec.	0 sec.	
Forced Operation	60 sec.	0 sec.	
Time Save Control	7 min.	4.2 sec.	
Anti-Freezing	4 min.	0 sec.	
Auto Mode Judgement	25 sec.	0 sec.	
Soft Dry	OFF	6 min.	Soft Dry: 10 min. operation
	ON	10 min.	
Deodorizing Control	Cooling	40 sec.	4 sec.
		70 sec.	7 sec.
		20 sec.	2 sec.
		180 sec.	18 sec.
	Soft Dry	40 sec.	4 sec.
		360 sec.	36 sec.
Comp. Reverse Rotation Detection	5 min.	30 sec.	Comp. ON 5 min. and above
	2 min.	0 sec.	
Comp./ Fan Motor Delay Timer	1.6 sec.	0 sec.	
Powerful Mode Operation	15 min.	15 sec.	
Random Auto Restart Control	0 ~ 62 sec.	0 ~ 6.2 sec.	
TRS Recovery Detection	12 min.	72 sec.	
	6 min.	36 sec.	
	3 min.	18 sec.	
	1 min.	6 sec.	
Time Save Control (Heating)	30 min.	3 sec.	
4 Way Valve Control (Delay)	5 min.	30 sec.	
Deice Operation Occurs	60 min.	6 sec.	60 min. after previous deice
	4 min.	24 sec.	Continuously 4 min. Comp. ON
	50 sec.	0 sec.	TRS ON continuously for 50 sec. check
Overload Deice Timer	1 min.	6 sec.	Comp. ON continuously for 1 min. check
Deice End	12 min.	72 sec.	Max. Operation time
	30 sec.	3 sec.	30 sec. Comp. OFF after deice
	10 sec.	1 sec.	4-Way Valve ON 10 sec. later after deice
Deice Operation (Extend)	60 sec.	0 sec.	
	120 sec.	0 sec.	
	180 sec.	0 sec.	
Hotstart Finish	30 sec.	0 sec.	
Ion OFF Timer	10 min.	10 sec.	

# 19.1. REMOTE CONTROL



# 19.2. PRINT PATTERN INDOOR UNIT PRINTED CIRCUIT BOARD

TOP VIEW



# 19.3. PRINT PATTERN INDOOR UNIT PRINTED CIRCUIT BOARD

## BOTTOM VIEW

