

Haier Air conditioner 2006'

New DC Invert Products Abnormality Solution

**HAND in HAND
HIGHER and HIGHER**

HFU-09H03/R2(DB) HFU-12H03/R2(DB)

HSU-09H03/R2(DB) HSU-12H03/R2(DB)

Indoor unit



HSU-09HS03/R2(DB) HSU-12HS03/R2(DB)

Indoor Unit




Operate


Heat


Cool

Malfunction Codes H & HT & HS 1

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover	Twinkling times of outdoor LED 2
	Power Operate	Timer Heat	operate Cool				
Room-temperature sensor malfunction	□	■	■	*		*	
Heat-exchange thermister anomaly	□	□	□	*		*	
Defrosting temperature sensor fault	□	□	□		*	*	2
Exhaust temperature sensor	□	□	■		*	*	3
Ambient temp sensor fault	□	□	■		*	*	1
Indoor fan motor malfunction	■	□	□	*			

Explanation □□bright □flashing ■turn-off * Represents there is this function

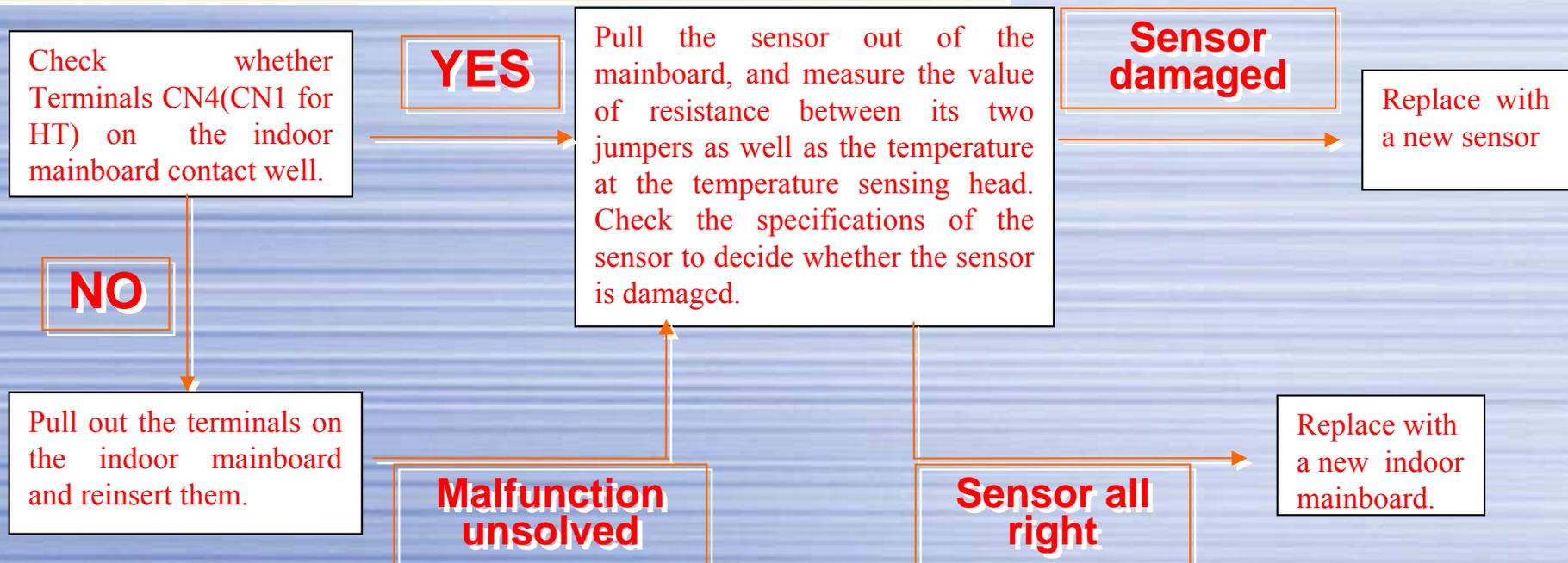
Malfunction Codes H&HT & HS 2

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover	Twinkling times of outdoor LED 2
	Power Operate	Timer Heat	Operate Cool				
Communication fault between the indoor and outdoor units	■	■	□	*	*		5or6
Anomaly of compressor Running	□	■	□		*		10or13
Overheat protection for exhaust temperature	■	□	■		*		4
High work-intense protection	□	□	□	*			
EEPROM error	□	□	□	*	*		7 only for outdoor
AC electricity protection	□	□	■		*		14

Countermeasures for Frequent Malfunctions (1)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Room-temperature sensor malfunction	□	■	■	*		*

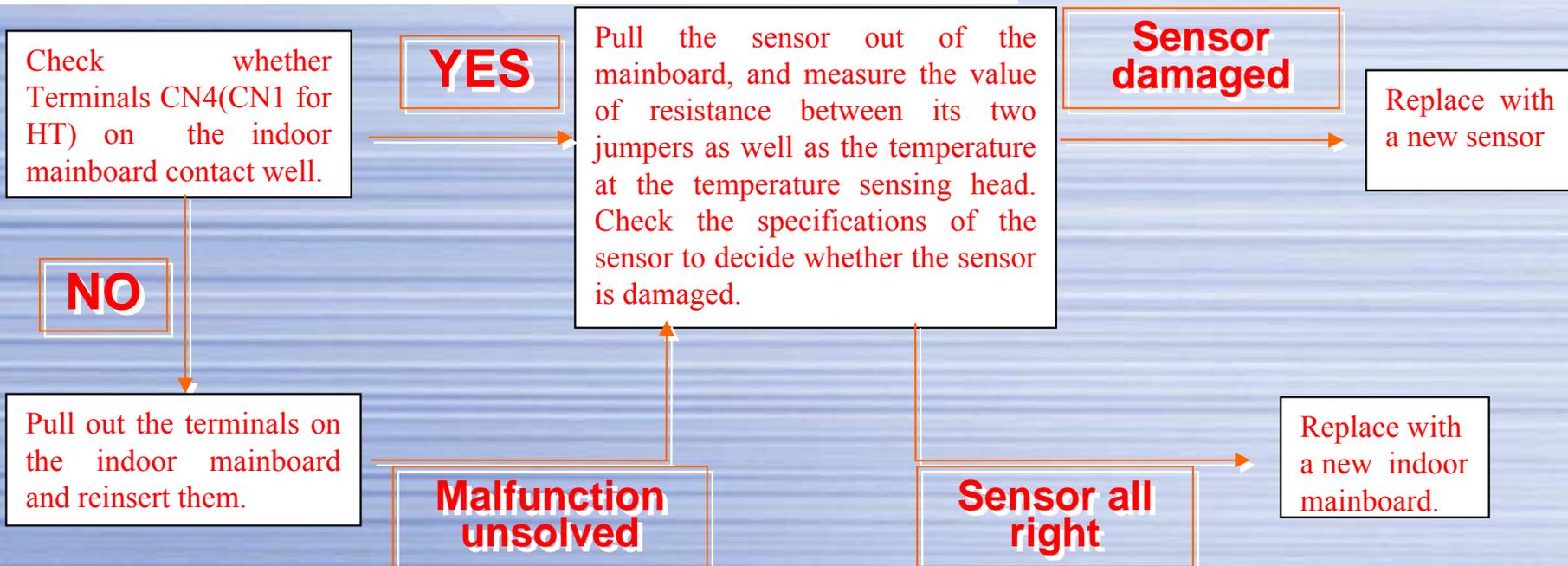
Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (2)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Heat-exchange sensor malfunction	□	□	□	*		*

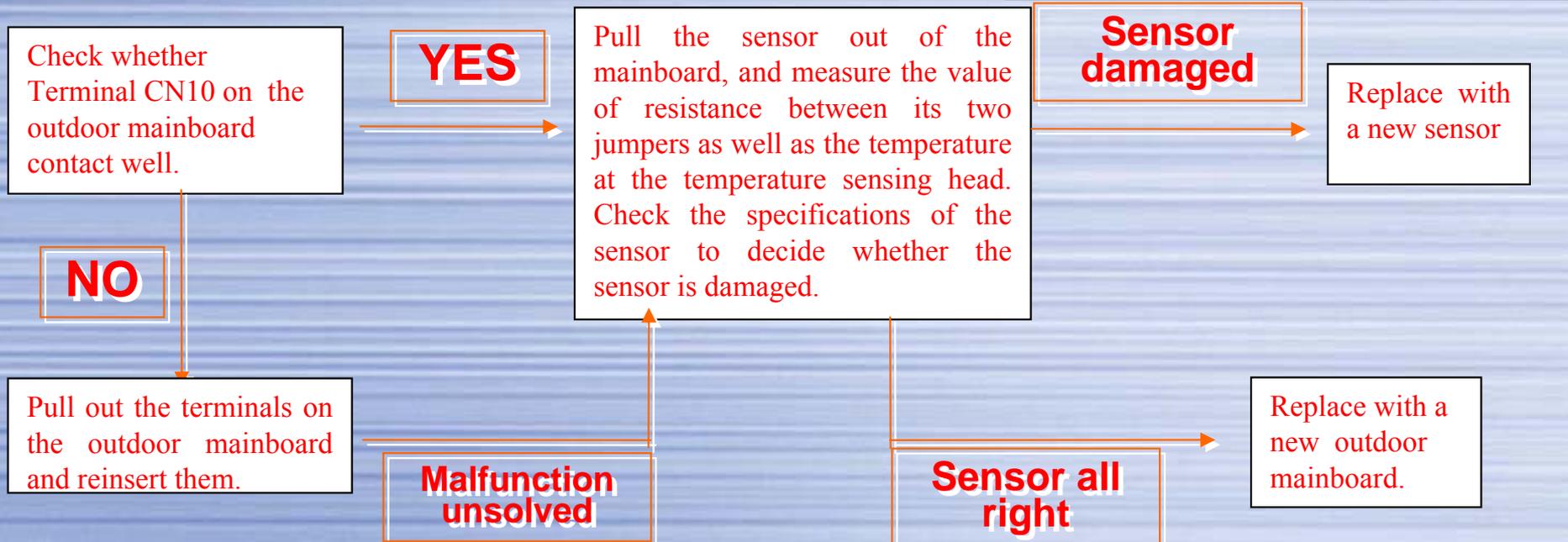
Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (3)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Frost-removing temperature sensor fault	□	□	□		*	*

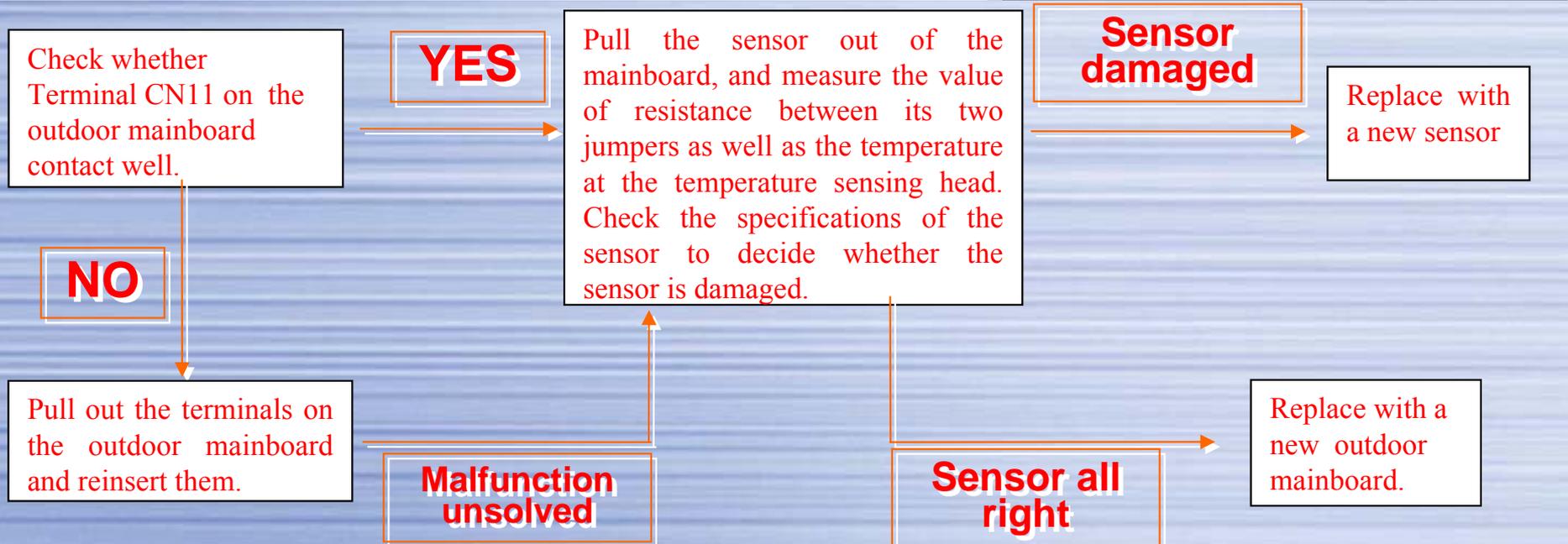
Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (4)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Exhaust temperature sensor	□	□	■		*	*

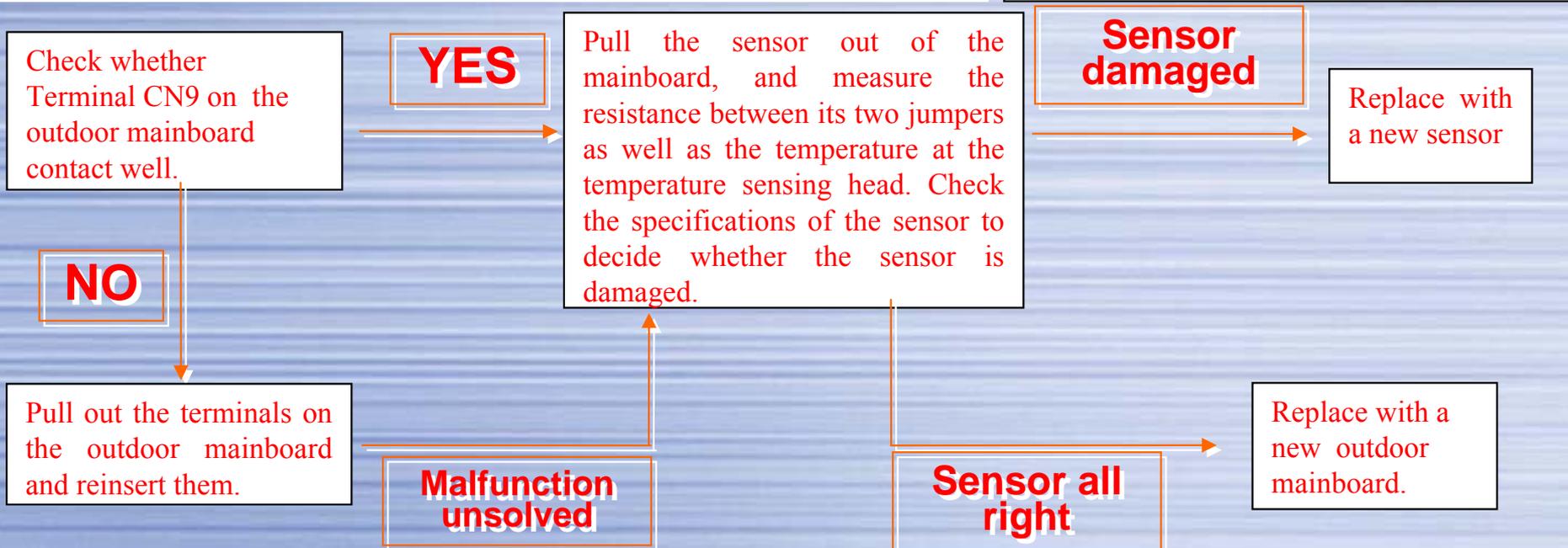
Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (5)

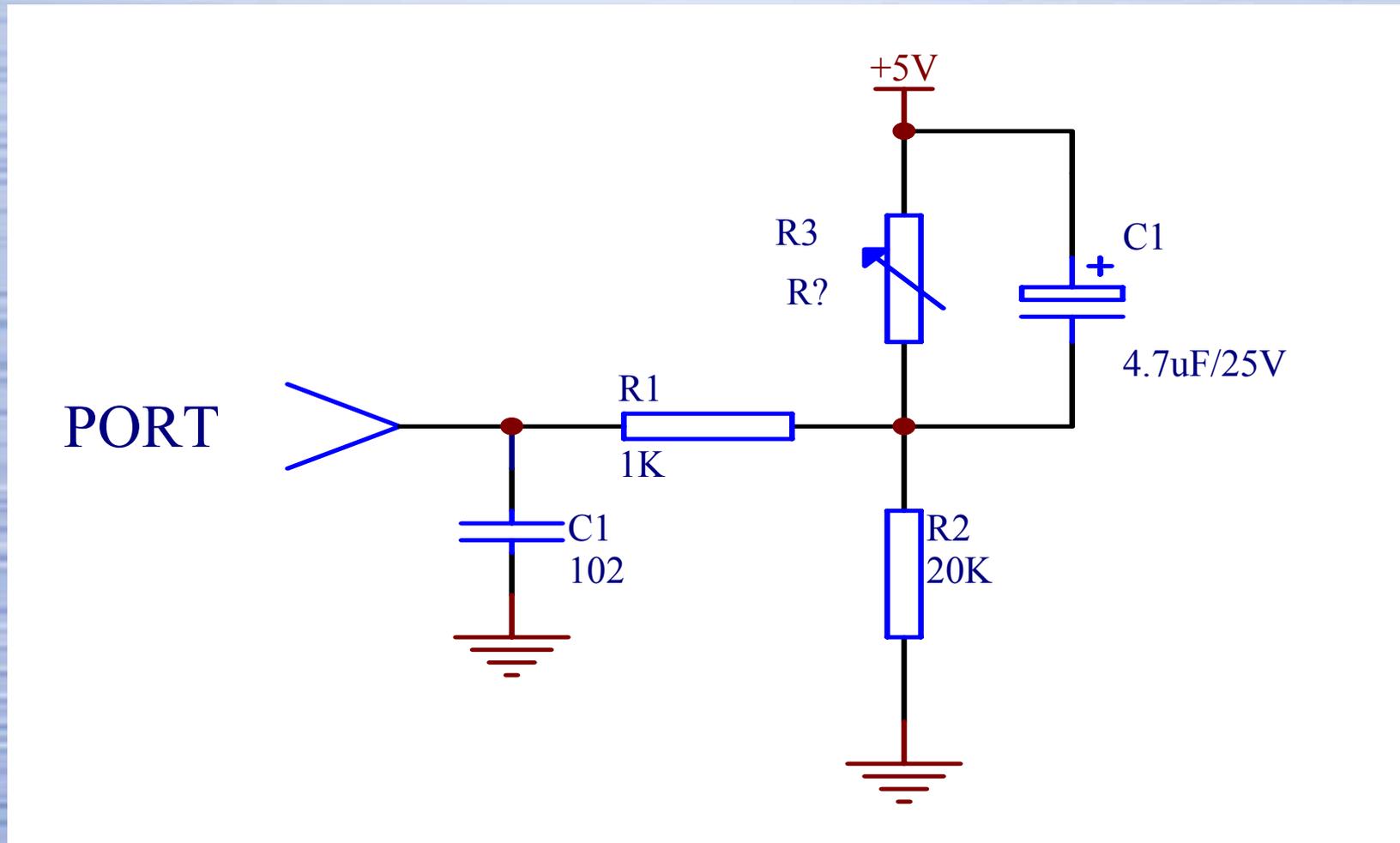
Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Ambient temp sensor fault	□	□	■		*	*

Countermeasure Flow Chart:



Mechanism of Sensor Malfunctions

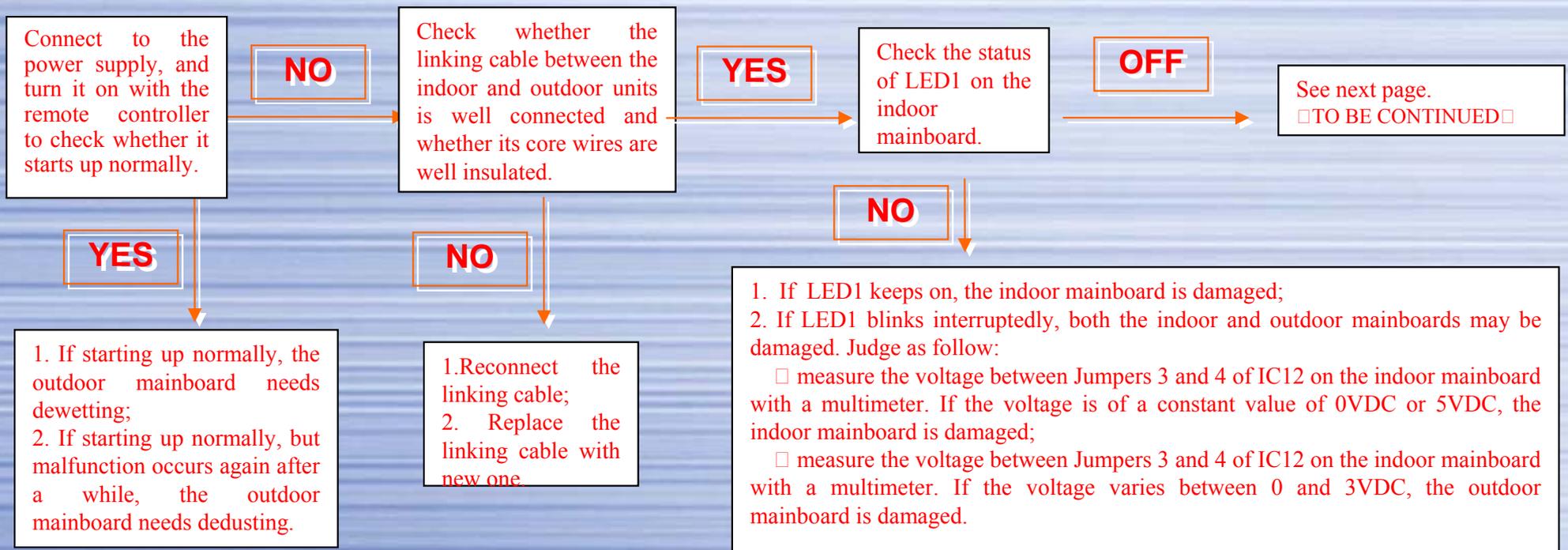
The A/D circuit of sensor is as follows:



Countermeasures for Frequent Malfunctions (6-1)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate Heat	Cool			
Communication fault between the indoor and outdoor units	■	■	□	*	*	

Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (6-2)

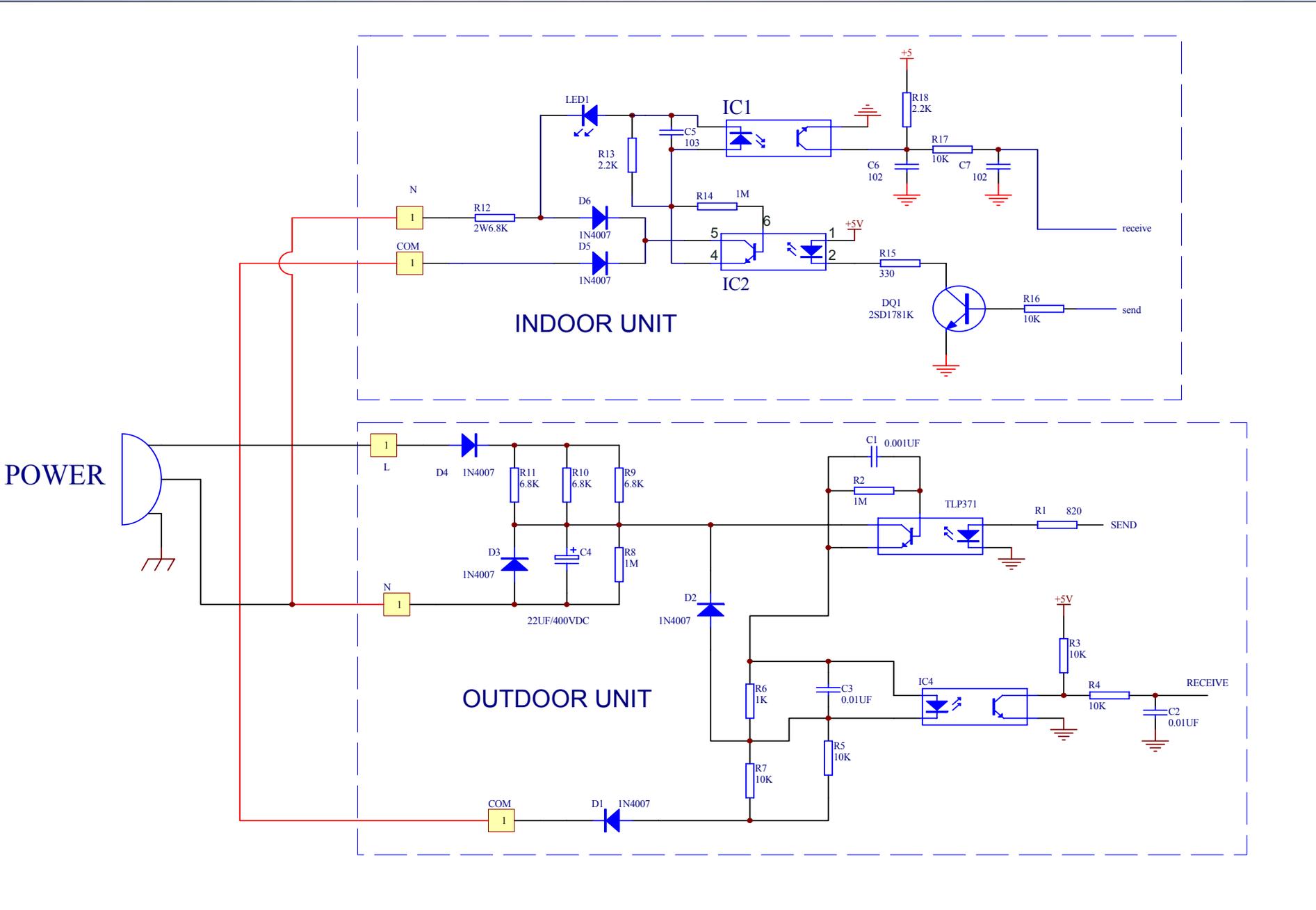
Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Communication fault between the indoor and outdoor units	■	■	□	*	*	

Countermeasure Flow Chart □ CONTINUE □ □

LED1 of indoor mainboard is OFF.

Trouble shooting process:

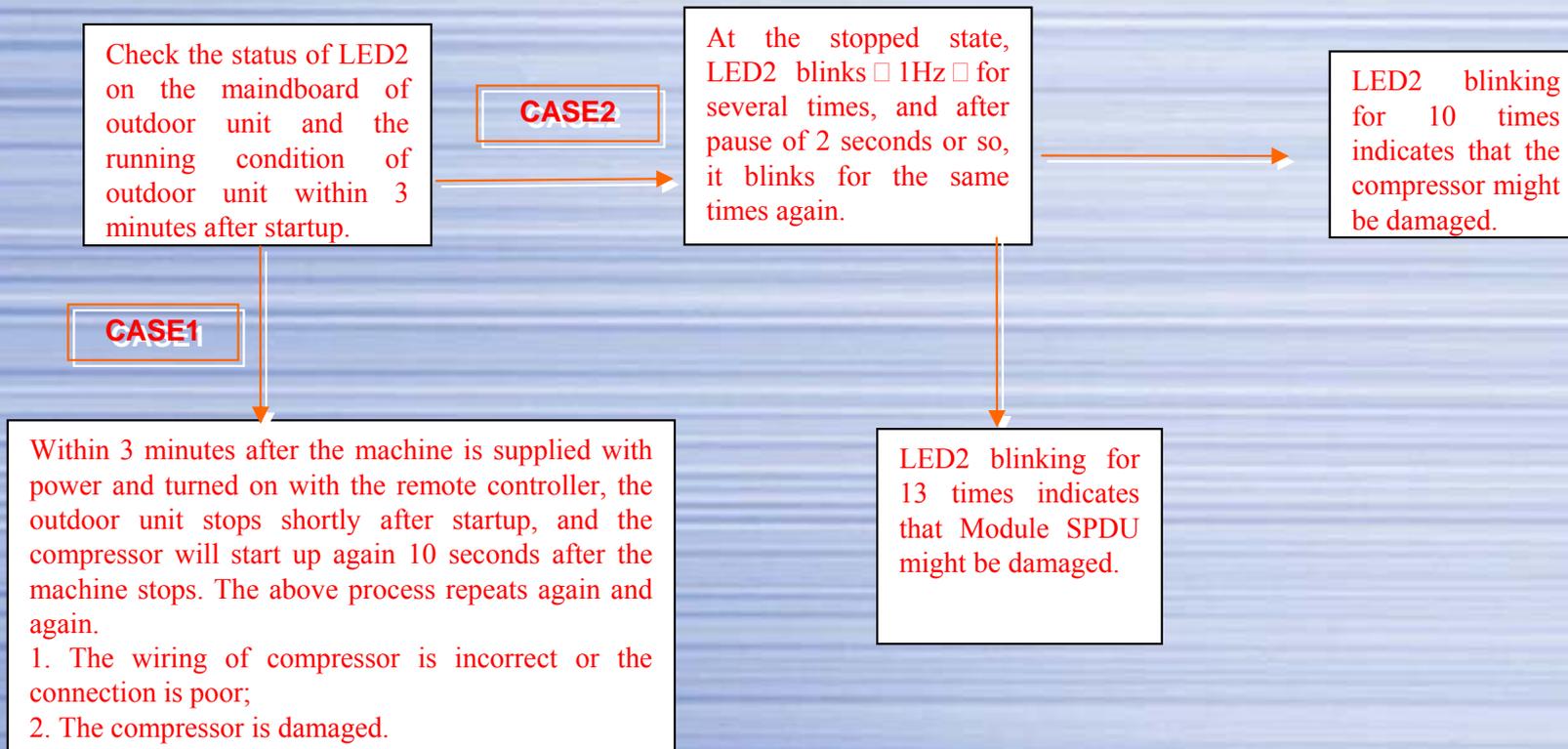
1. Test the outdoor power supply (230VAC and +310VDC) with a multimeter. If 230VAC is available but 310VDC not, the SPDU □ IPDU, HT □ module is damaged, replace it with a new one. If both 230VAC and 310VDC are available, go forward to step 2.
2. Measure the voltage across Jumpers 1 and 4 of Terminal CN7 on the outdoor mainboard with a multimeter. If +12VDC is not available, the SPDU □ IPDU, HT □ module is damaged, replace it with a new one. If +12VDC is available, go forward to step 3.
3. Within two minutes after the machine is supplied with power and turn on, measure the AC voltage between positions 1 and 3 on the terminal of outdoor unit with a multimeter. If the value varies between 0 and 80 VAC, the outdoor mainboard is damaged, replace it with a new one. If the value is constant at about 30V, the indoor mainboard is damaged, replace it with a new one.



Countermeasures for Frequent Malfunctions (7)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Anomaly of compressor Running	□	■	□		*	

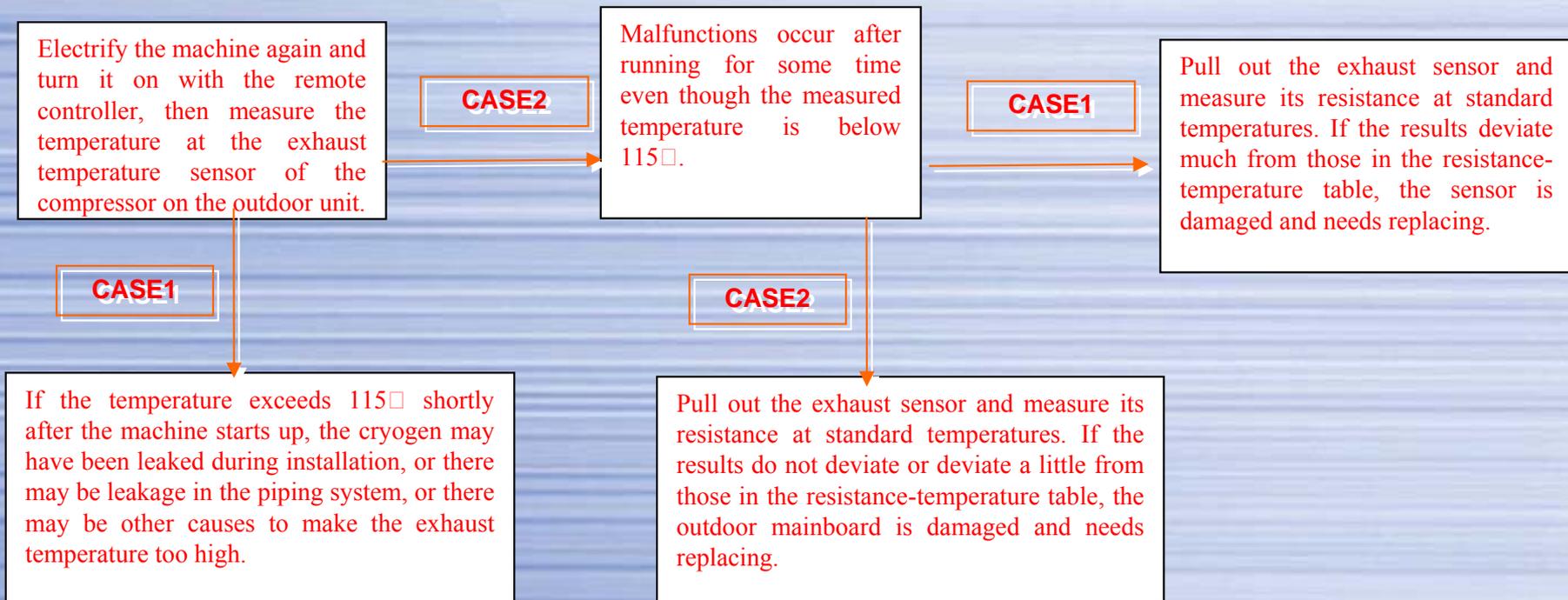
Countermeasure Flow Chart □



Countermeasures for Frequent Malfunctions (8)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
Overheat protection for exhaust temperature	■	□	■		*	

Countermeasure Flow Chart □

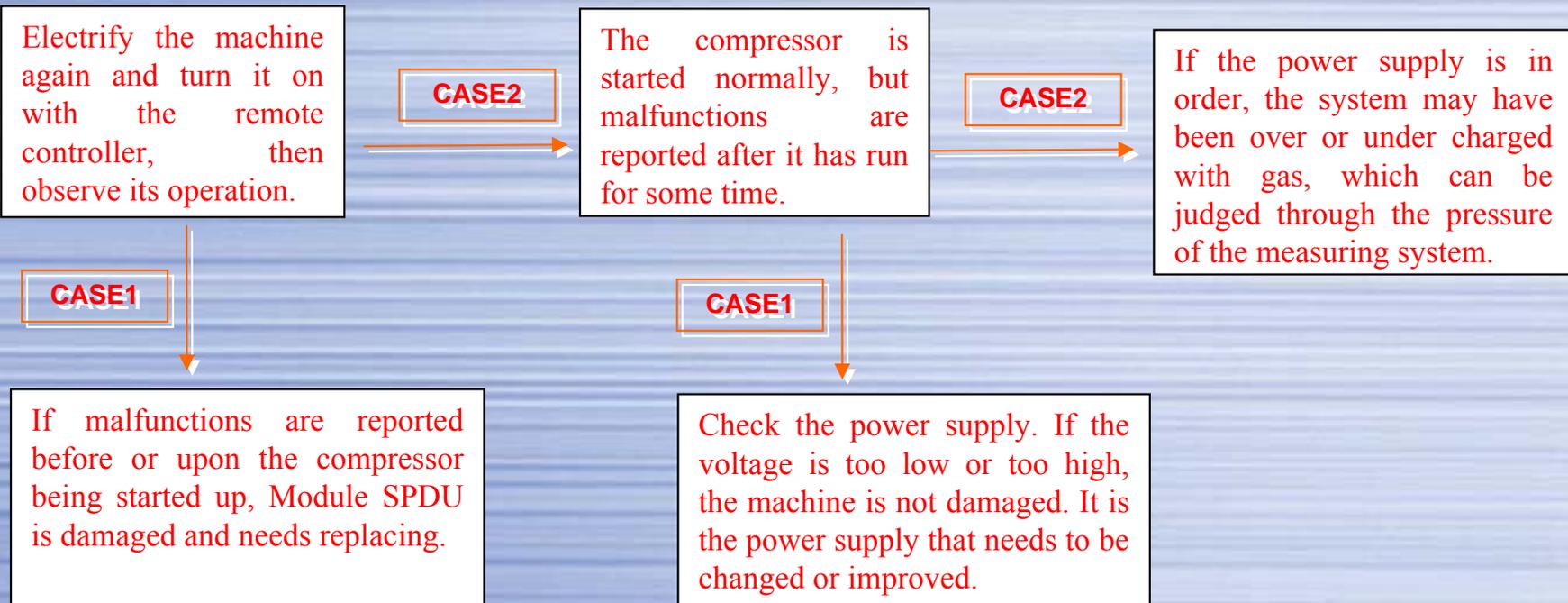


Countermeasures for Frequent Malfunctions (9)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate	Heat Cool			
AC electricity protection	□	□	■		*	

Countermeasure Flow Chart □

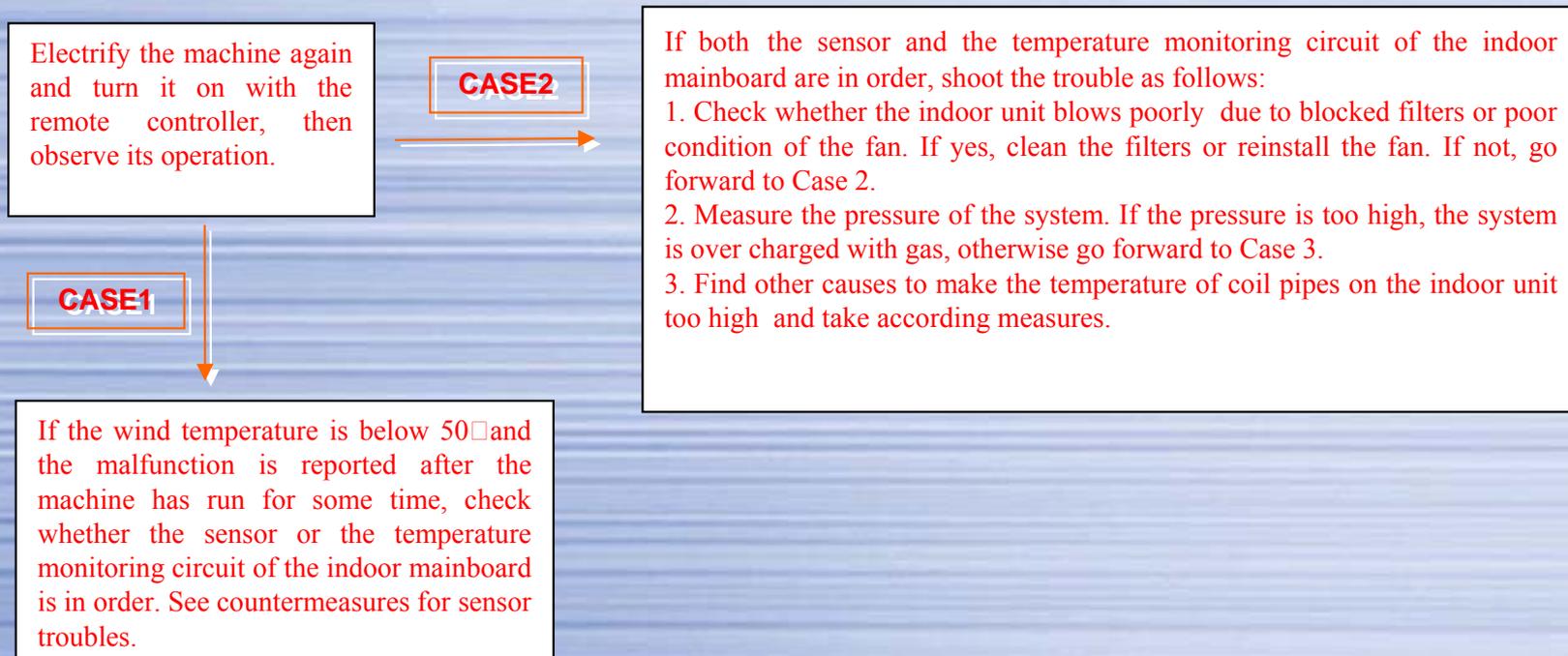
With this malfunction, LED2 on the outdoor mainboard blinks at a frequency of 1Hz and an interval of about 2 seconds for 14 times.



Countermeasures for Frequent Malfunctions (11)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate Heat	operate Cool			
High work-intense protection	□	□	□	*		

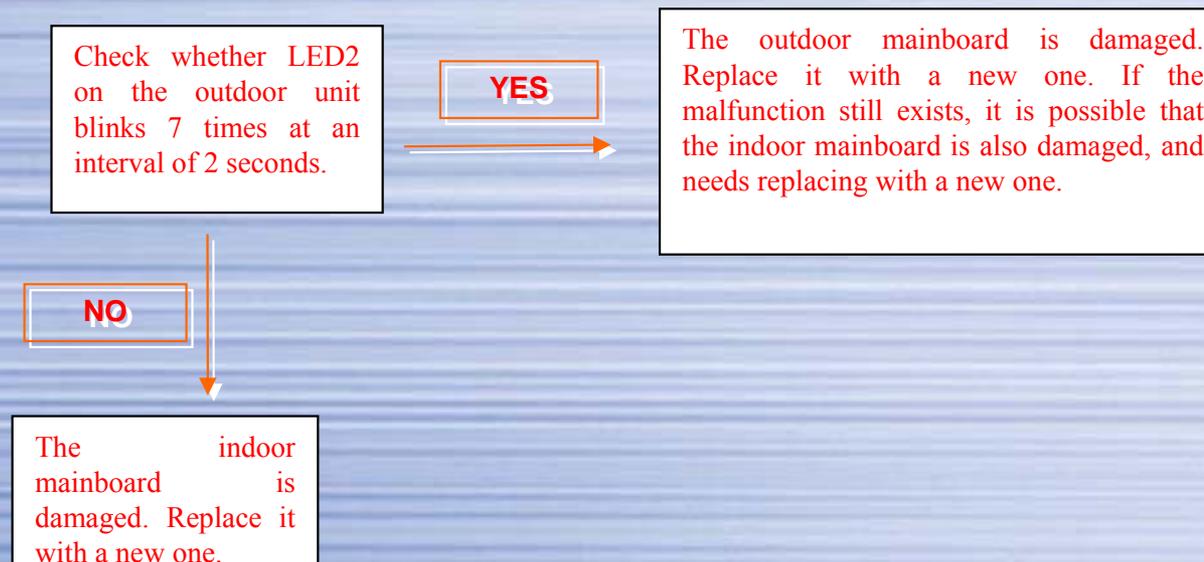
Countermeasure Flow Chart □



Countermeasures for Frequent Malfunctions (12)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate Heat	operate Cool			
EEPROM error	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*	*	

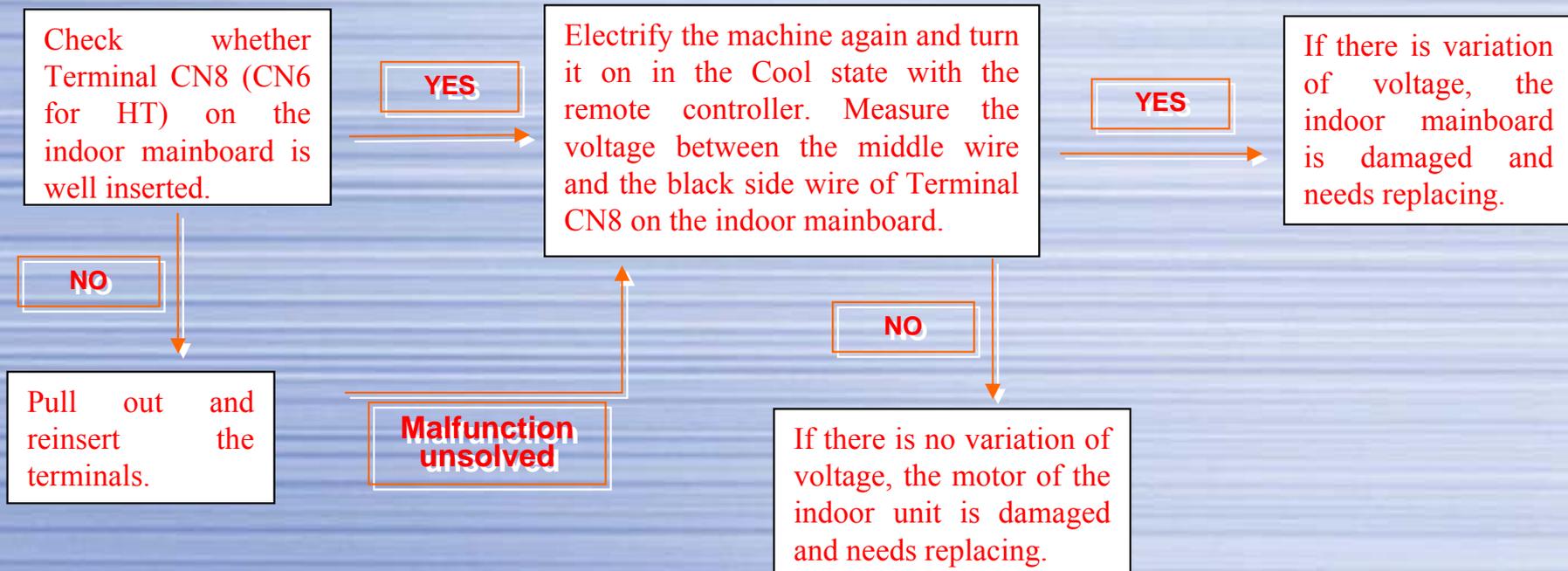
Countermeasure Flow Chart



Countermeasures for Frequent Malfunctions (13)

Content	Malfunction codes			Indoor Unit	Outdoor Unit	Auto Recover
	Power operate	Timer operate Heat	operate Cool			
Indoor fan motor malfunction	■	□	□	*		

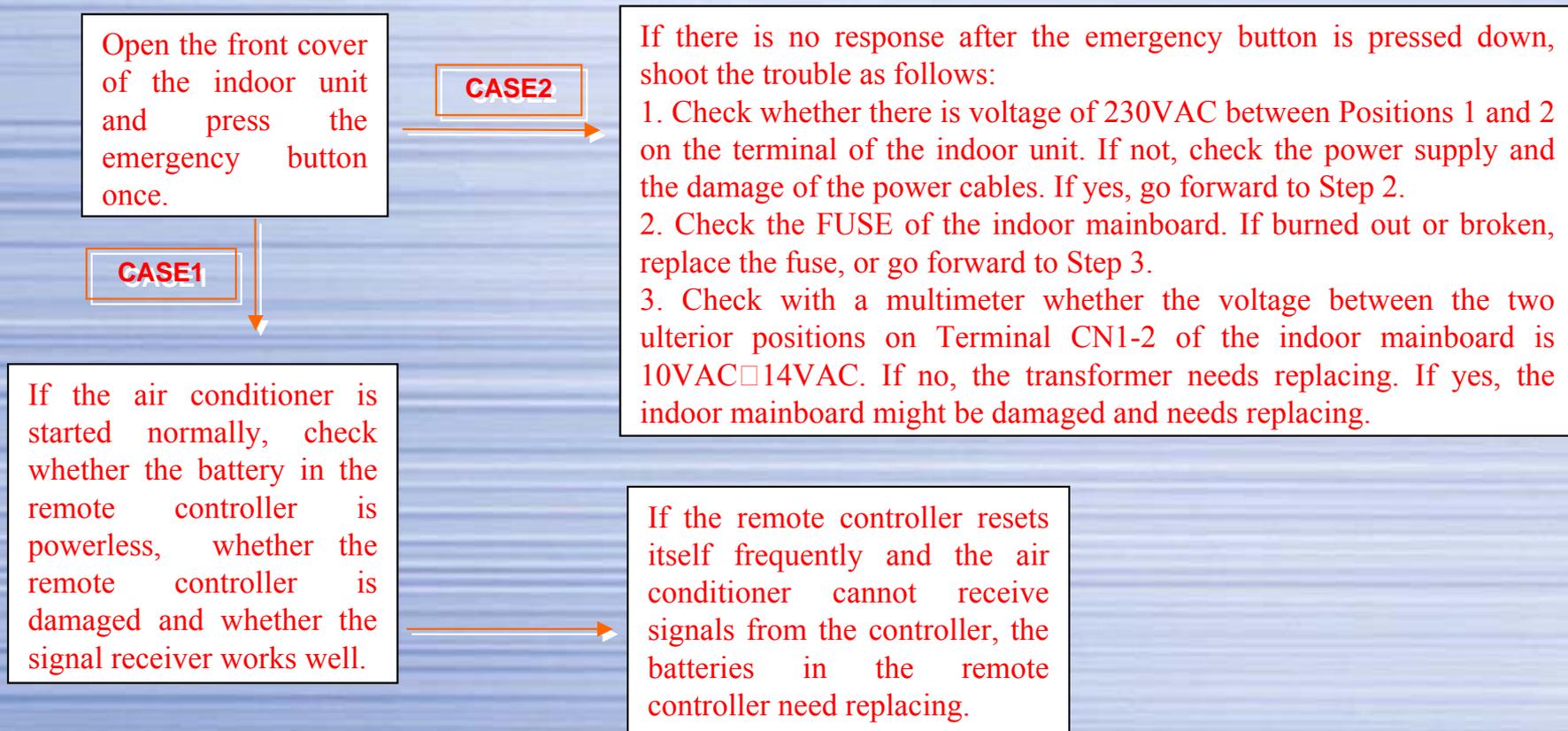
Countermeasure Flow Chart



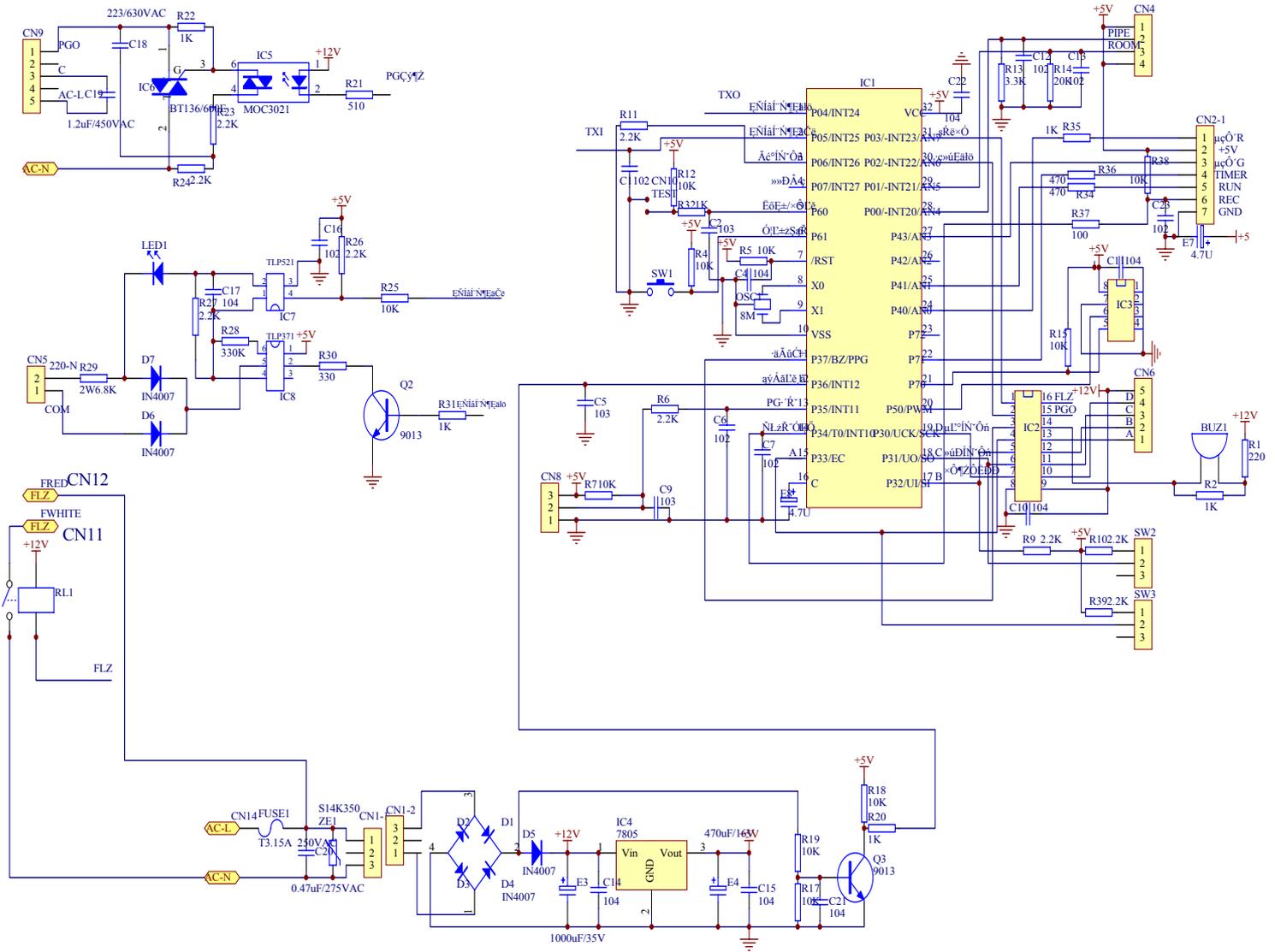
Countermeasures for Other Frequent Malfunctions (14)

With the machine electrified, the remote controller cannot start it

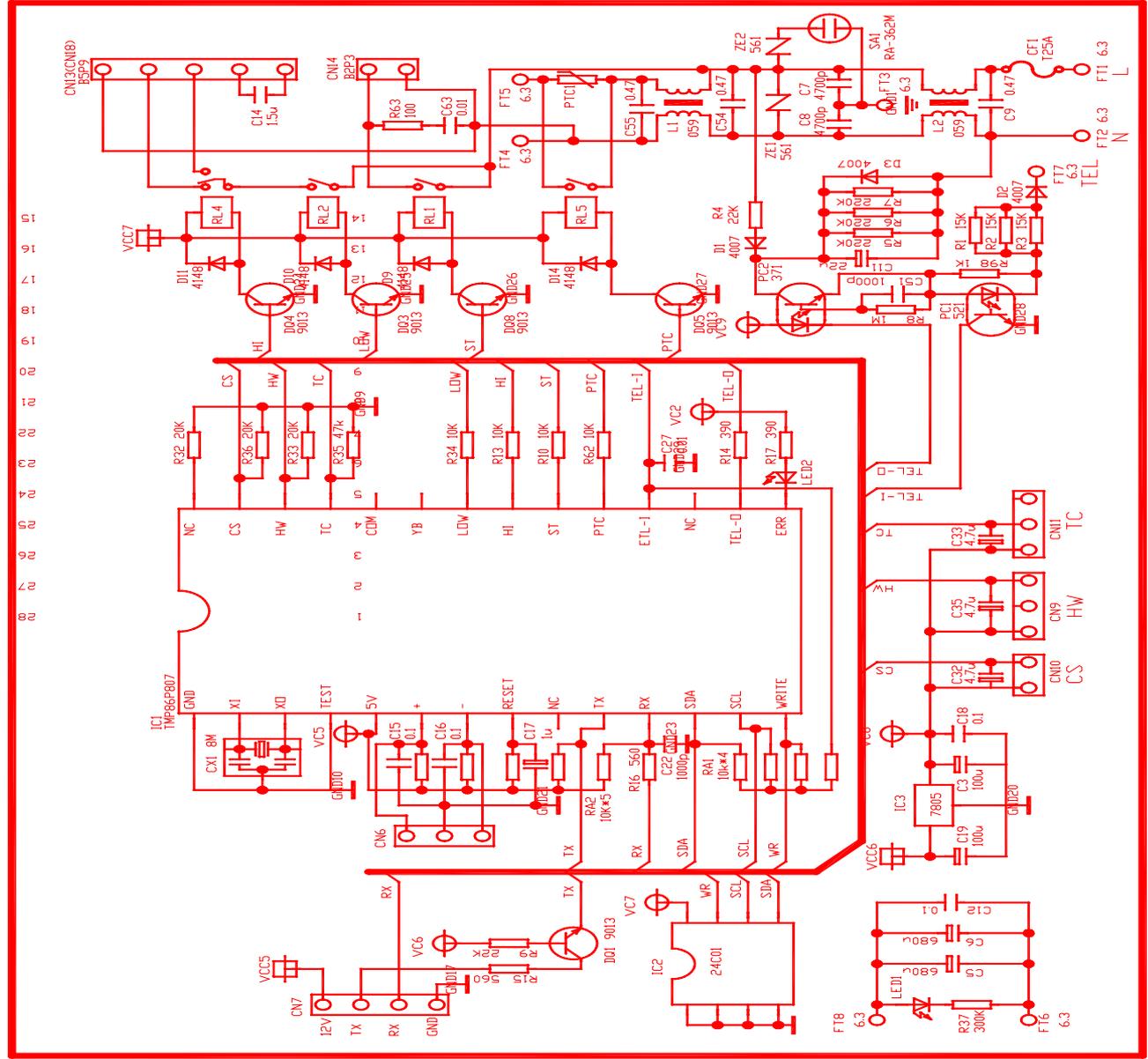
Countermeasure Flow Chart



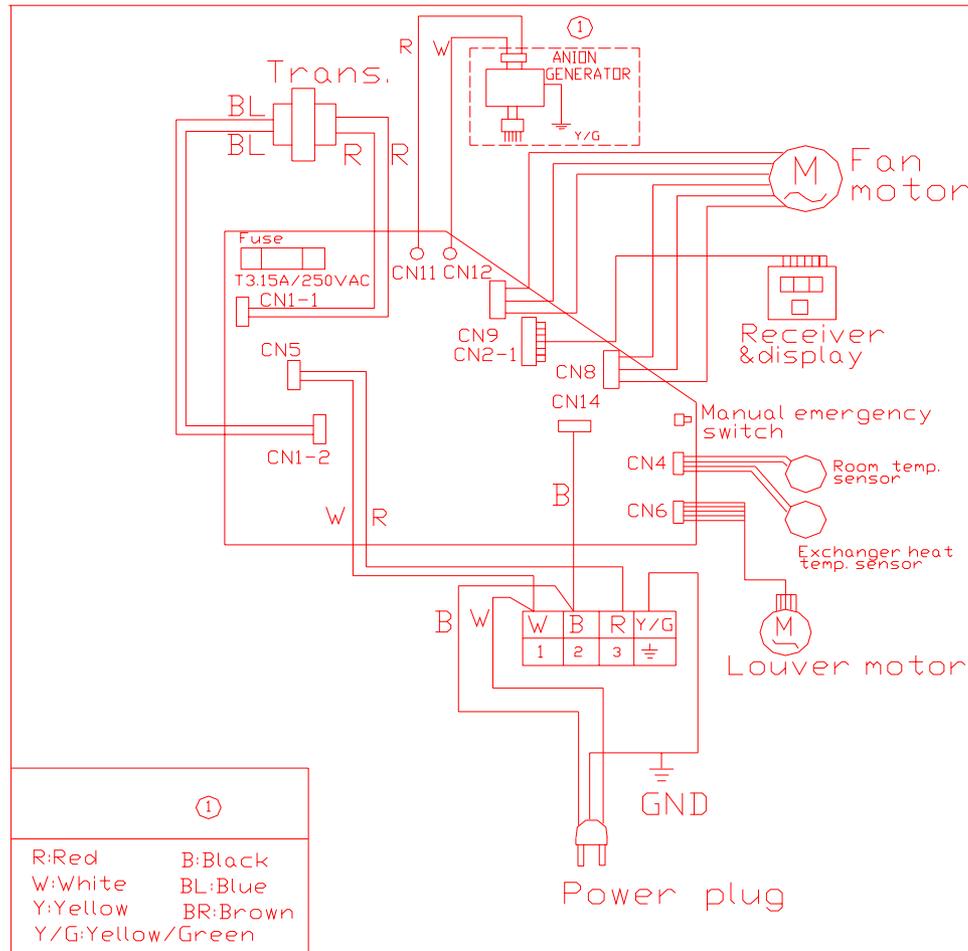
The figure on the right shows the electric diagram for the indoor unit of DC products with Model H Economical Series.



The figure on the right shows the electric diagram for the outdoor unit of DC products with both Model H Economical and Smart Eye Series.



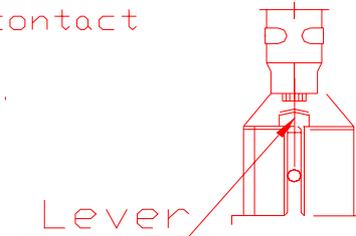
The figure on the right shows the wiring diagram for the indoor unit of DC products with Model H Economical Series.



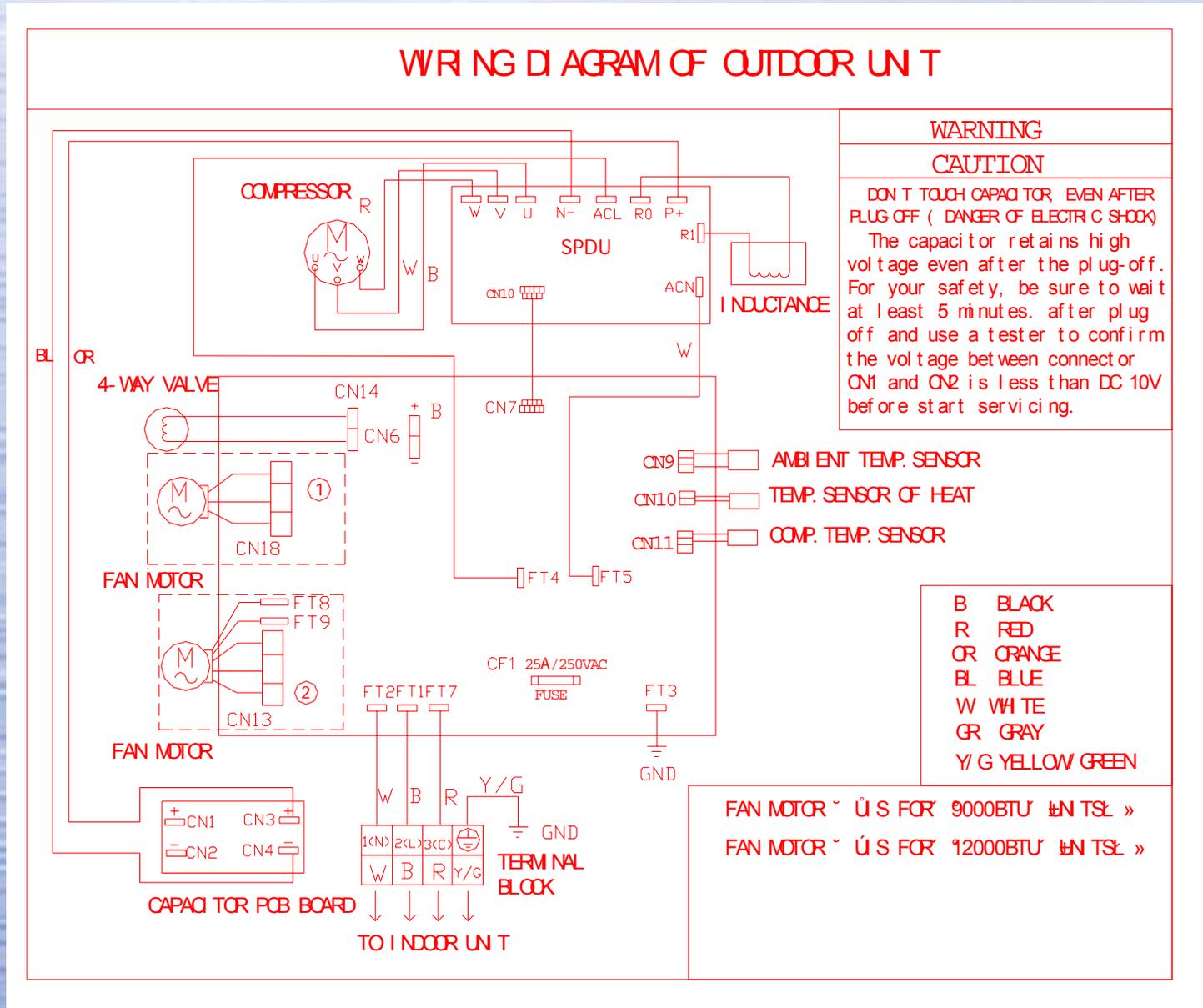
Removal of locking terminal contact

Terminal contact (mark ※) comes with locking structure.

Please press the front lever to release the locking and pull the cable out.



The figure on the right shows the wiring diagram for the outdoor unit of DC products with Model H Economical Series.



The figure on the right shows the wiring diagram for the outdoor unit of DC products with Smart Eye Series.

