

HAND in HAND

HIGHER and HIGHER

Cooperation – AIRCON For Europe HFU-09H03/R2(DB) HFU-12H03/R2(DB) HSU-09H03/R2(DB) HSU-12H03/R2(DB) Indoor unit

Haier





HSU-09HS03/R2(DB) HSU-12HS03/R2(DB) **Indoor Unit**

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Malfunction Codes H & HT & HS

	Malfunction codes				Twinkling
Content	Power Timer operate Operate Heat Cool	Indoor Unit	Outdoor Unit	Auto Recover	times of outdoor LED 2
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 Diright flashing turn-off * Represents there is this function

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Malfunction Codes H&HT & HS

	Malfunction codes				Twinkling
Content	Power Timer Operate	Indoor Unit	Outdoor Unit	Auto	times of outdoor
	Operate Heat Cool			Recover	LED 2
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



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Countermeasures for Frequent Malfunctions (1)

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

Countermeasure Flow Chart:





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Countermeasures for Frequent Malfunctions (2)

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

Countermeasure Flow Chart:



Countermeasures for Frequent Malfunctions (3)

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

Countermeasure Flow Chart:

With the malfunction, LED2 on the outdoor mainboard blinks twice at frequency of 1 Hz and interval of 2 seconds or so.

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Countermeasures for Frequent Malfunctions (4)

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

Countermeasure Flow Chart:

With the malfunction, LED2 on the outdoor mainboard blinks three times at frequency of 1 Hz and interval of 2 seconds or so.





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Countermeasures for Frequent Malfunctions (5)

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

Countermeasure Flow Chart:

With the malfunction, LED2 on the outdoor mainboard blinks once at frequency of 1 Hz and interval of 2 seconds or so.

Check whether Terminal CN9 on the outdoor mainboard contact well.	Pull the sensor out of the mainboard, and measure the resistance between its two jumpers as well as the temperature at the temperature sensing head. Check the specifications of the sensor to decide whether the sensor is damaged.	Sensor damaged Replace with a new sensor
Pull out the terminals on the outdoor mainboard and reinsert them.	tion ed Senso rigi	or all nt



Mechanism of Sensor Malfunctions

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The A/D circuit of sensor is as follows:



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mainboard needs dedusting.

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Countermeasures for Frequent Malfunctions (6-1)

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measure the voltage between Jumpers 3 and 4 of IC12 on the indoor mainboard with a multimeter. If the voltage varies between 0 and 3VDC, the outdoor mainboard is damaged.

Countermeasures for Frequent Malfunctions (6-2)

	Malfunction codes			Auto	
Content	Power Timer operate operate Heat Cool	Indoor Unit	Outdoor Unit	Recov er	
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 310DC not, the SPDU IPDU, HT module is damaged, replace it with a new one. If both 230VAC and 310DC are available, go forward to step 2.

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2. Measure the voltage across Jumpers 1 and 4 of Terminal CN7 on the outdoor mainboard with a multimeter. If +12DC 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.

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Countermeasures for Frequent Malfunctions (7)

Content	Malfu Power	inction codes	Indoor	Outdoor	Auto
	operate	Heat Cool	Unit	Unit	Recover
Anomaly of compressor Running				*	
Countermea	sure Flov	v Chart			
Check the status of LED2 on the maindboard of outdoor unit and the running condition of outdoor unit within 3 minutes after startup.	CASE2	At the stopped state, LED2 blinks 1Hz for several times, and after pause of 2 seconds or so, it blinks for the same times again.		LED2 blinking for 10 times indicates that the compressor might be damaged.	
CASE1					
Within 3 minutes after the mach	nine is supplied with	LED2 blinkin	ig for		

13 times indicates

that Module SPDU

might be damaged.

Within 3 minutes after the machine is supplied with power and turned on with the remote controller, the outdoor unit stops shortly after startup, and the compressor will start up again 10 seconds after the machine stops. The above process repeats again and again.

1. The wiring of compressor is incorrect or the connection is poor;

2. The compressor is damaged.

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Countermeasures for Frequent Malfunctions (8)

Content	Malfunction codes Power Timer operate operate Heat Cool	Indoor Unit	Outdoor Unit	Auto Recov er
Overheat protection for exhaust temperature			*	

Countermeasure Flow Chart

Electrify the machine again and	Malfunctions occur after	Pull out the exhaust sensor and
turn it on with the remote	running for some time	measure its resistance at standard
controller, then measure the	even though the measured	temperatures. If the results deviate
temperature at the exhaust	temperature is below	much from those in the resistance-
temperature sensor of the	115 .	temperature table, the sensor is
compressor on the outdoor unit.	CASE2	damaged and needs replacing.
If the temperature exceeds 115 shortly after the machine starts up, the cryogen may have been leaked during installation, or there may be leakage in the piping system, or there may be other causes to make the exhaust temperature too high.	Pull out the exhaust sensor and measure it resistance at standard temperatures. If th results do not deviate or deviate a little from those in the resistance-temperature table, th outdoor mainboard is damaged and need replacing.	

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Countermeasures for Frequent Malfunctions (9)

	Malfunction codes	т 1	0.41	Auto
Content	Power Timer operate operate Heat Cool	Unit	Unit	Recover
AC electricity protection			*	

With this malfunction, LED2 on the outdoor **Countermeasure Flow Chart** mainboard blinks at a frequency of 1Hz and an interval of about 2 seconds for 14 times Electrify the machine The compressor is If the power supply is in again and turn it on started normally, but CASE2 CASE2 order, the system may have with the malfunctions remote are been over or under charged controller. then reported after it has run with gas, which can be observe its operation. for some time. judged through the pressure of the measuring system. CASE1 CASE1 If malfunctions are reported Check the power supply. If the before or upon the compressor voltage is too low or too high, being started up, Module SPDU the machine is not damaged. It is is damaged and needs replacing. the power supply that needs to be changed or improved.



Countermeasures for Frequent Malfunctions (11)

	Malfunction codes	T 1		Auto
Content	Power Timer operate operate Heat Cool	Indoor Unit	Unit	Recover
High work-intense protection		*		

Countermeasure Flow Chart

Electrify the machine again and turn it on with the remote controller, then observe its operation.





If the wind temperature is below 50 and the malfunction is reported after the machine has run for some time, check whether the sensor or the temperature monitoring circuit of the indoor mainboard is in order. See countermeasures for sensor troubles. If both the sensor and the temperature monitoring circuit of the indoor mainboard are in order, shoot the trouble as follows:

1. Check whether the indoor unit blows poorly due to blocked filters or poor condition of the fan. If yes, clean the filters or reinstall the fan. If not, go forward to Case 2.

2. Measure the pressure of the system. If the pressure is too high, the system is over charged with gas, otherwise go forward to Case 3.

3. Find other causes to make the temperature of coil pipes on the indoor unit too high and take according measures.



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Countermeasures for Frequent Malfunctions (12)

	Malfunction codes	T 1		Auto
Content	Power Timer operate operate Heat Cool	Indoor Unit	Outdoor Unit	Recover
EEPROM error		*	*	

Countermeasure Flow Chart





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Countermeasures for Frequent Malfunctions (13)

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

Countermeasure Flow Chart





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Countermeasures for Other Frequent Malfunctions (14)

With the machine electrified, the remote controller cannot start it

Countermeasure Flow Chart



CASE1

remote

remote

If the air conditioner is

started normally, check whether the battery in the

powerless, whether the

damaged and whether the

signal receiver works well.

controller

controller

is

is

2	
	-

If there is no response after the emergency button is pressed down, shoot the trouble as follows:

1. Check whether there is voltage of 230VAC between Positions 1 and 2 on the terminal of the indoor unit. If not, check the power supply and the damage of the power cables. If yes, go forward to Step 2.

2. Check the FUSE of the indoor mainboard. If burned out or broken, replace the fuse, or go forward to Step 3.

3. Check with a multimeter whether the voltage between the two ulterior positions on Terminal CN1-2 of the indoor mainboard is 10VAC 14VAC. If no, the transformer needs replacing. If yes, the indoor mainboard might be damaged and needs replacing.

If the remote controller resets itself frequently and the air conditioner cannot receive signals from the controller, the batteries in the remote controller need replacing.

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 indoor unit of DC products with Smart Eye Series.

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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.



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

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