



# Troubleshooting Using The Self-Diagnostic Monitor - Sanyo SAP-KMV91G-S Technical & Service Manual

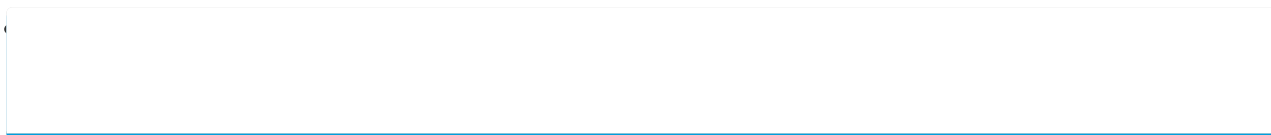
Inverter multi-split system air conditioner



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Troubleshooting

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## Bookmarks







## 11-2. Troubleshooting Using the Self-Diagnostic Monitor

### 11-2-1. Method of Self-Diagnosis

If the service lamp of the indoor unit flashes every half-second, carry out detailed troubleshooting using the following method.

If the service lamp flashes every half-second as soon as the power is plugged in, there is either a faulty external ROM (for OTP data) on the board of the indoor unit, an insertion fault, or the ROM is not installed.

Even when power is not being supplied, the malfunction mode will remain in memory, so carry out the diagnosis as follows:

Procedure

(1) Restore power.

(2) Set the operation selector of the indoor unit to OFF (Self-Diagnosis).

(3) If an abnormality is sensed or an automatic protective action is taken, the self-diagnostic lamps No. 1, 2 and 3

respectively alternately blink (on) for 5 seconds and off for 2 seconds (the buzzer sounds when they go off).

When there is no abnormality detected, there will be no indication on the self-diagnostic lamp (ser-

vice lamp), nor will the buzzer sound.

(4) The buzzer sounds three times to inform that the diagnosis has been completed.

(5) After the repair, always set the operation selector to DEMO and restore power to delete the contents of the

diagnosis. After that, set the operation selector to OFF to check that the contents were deleted.

## 11-2-2. Details of Diagnosis

Display Lamp

Timer

Operation

Service\*

\*This lamp lights only when conducting service inspections.

...Illuminated

Details of Diagnosis

Room temp. sensor abnormality

Indoor heat exchanger temp.

sensor abnormality

Compressor temp. sensor and SH

(SVC) sensor abnormality

Outdoor heat exchanger temp.

sensor abnormality (Narrow tube

A/B temperature sensor)

Outdoor temp. sensor abnormality

(Wide tube A/B temperature sensor)

CT (current detection sensor)

abnormality

	●	○	×
Defective serial communication	●	○	×
No power output to the outdoor unit, or no current flow on the outdoor board	●	○	×
Protector for HIC/Power Transistor activated (current and temperature)	○	×	×
...Flashing			
Details of Abnormality	×	○	
Sensor open- and short-circuit			
Connector contact fault	×	○	×
Sensor open- and short-circuit			
Connector contact fault	○	○	×
Sensor open- and short-circuit			
Connector contact fault	×	○	
Sensor open- and short-circuit			

Connector contact fault  
Sensor open- and short-circuit  
Connector contact fault  
HIC fault (no output from U, V and W phases)  
Incorrect wiring of F cable, incorrect insertion, or the contact between metal parts and electric leads.  
Abnormality on 200 VAC / 280 VDC line  
Defective insulation  
Blown terminal block temperature fuse  
Defective power relay  
Defective boards (indoor or outdoor)  
Defective HIC  
Faulty contact / crimp of signal lead connector  
Locked and worn AC compressor  
Defective outdoor A board, or mistake on model change  
Outdoor fan motor fails to rotate, or outdoor heat exchanger blocked

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DEMO.

TEST

ON \_\_\_\_\_

OFF

Operation selector

Normally set it to ON position.

OFF, TEST and DEMO positions

are used for inspections, etc.

...Off

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[SAP-K71GH Troubleshooting](#)

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[KMS0912 Troubleshooting](#)

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[SPW-C256VH 2-21.Table Of Self-Diagnostic Functions And Corrections](#)

[\(X, T, U Types\)](#)

Sanyo SPW-C256VH

[C4272R Table Of Self-Diagnostic Functions And Corrections \(X, T, U, K](#)

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Sanyo C4272R

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