

Indoor Unit Control Pcb Switches And Functions - Sanyo SPW-C256VH Technical Data & Service Manual

4-way air discharge semi-concealed wall-mounted ceiling-mounted concealed-duct

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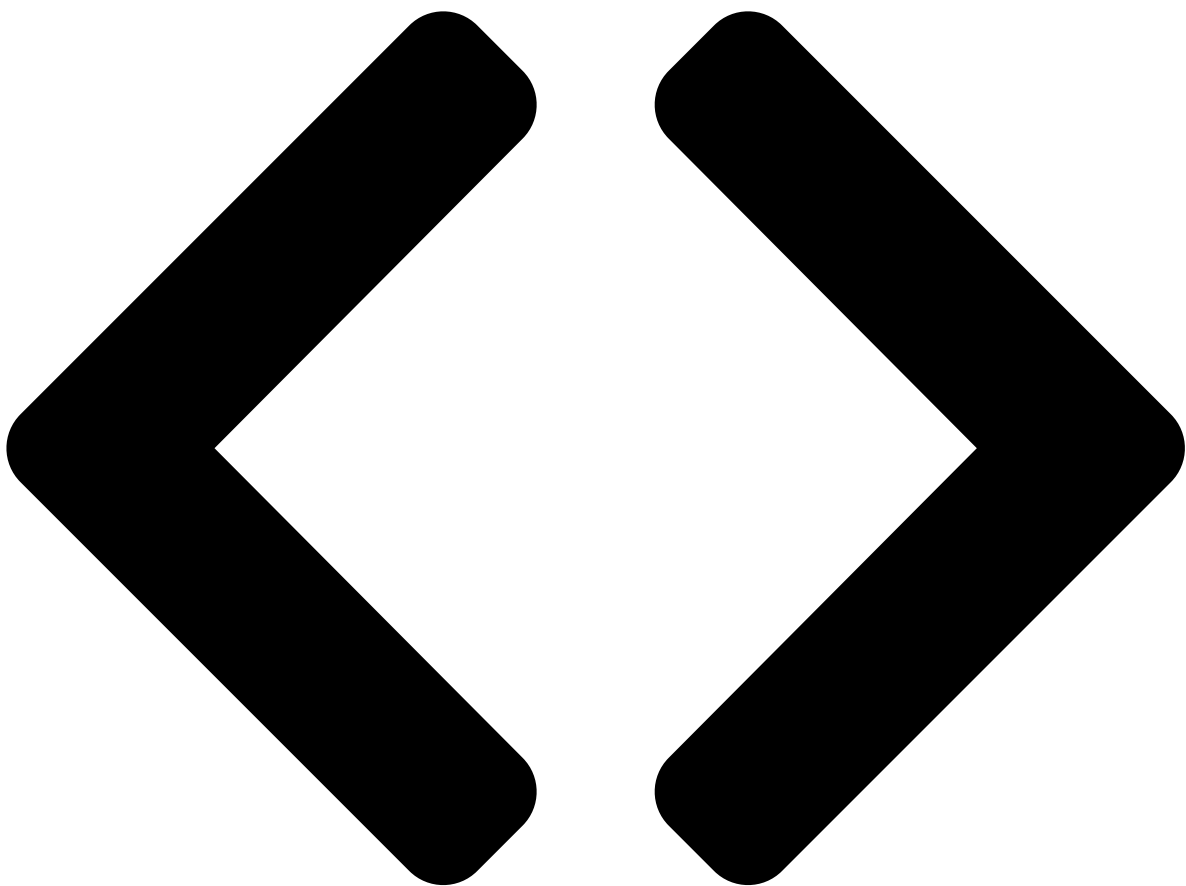
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4-3. Indoor Unit Control PCB Switches and Functions

[Indoor unit control PCB]

4-3. Indoor Unit Control PCB Switches and Functions

T10 (CN061): [Indoor unit control PCB]

EXCT (CN073): T10 (CN061): 6P plug (YEL) / Used for remote control operation. (Refer to the R
DISP (CN072): Control items: (1) Start/stop input (2) Remote controller prob
CHK: (3) Start signal output (4) Alarm signal output

JP1 (J01): EXCT (CN073): 2P plug (RED) / Can be used for demand control. When input is pr
4 operate with the thermostat OFF.

Fan drive: DISP (CN072): 2P plug (WHT) / Short-circuiting this plug allows operation to be co
Filter: controller even when an outdoor unit is not connected. (In this case
Power LED: indicates trouble in the serial communication between the indoor an
EEPROM (IC10): occur.)

GRL (CN020): CHK: 2P plug (WHT) / Test pin. Short-circuiting this pin allows the indoo
drain pump, flap motor (F1 position), and electronic expansion valv

There are 5P, 6P, 7P and 8P control PCB types for indoor units.

5P terminal board
5P terminal board

1(L)2(N)

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5

Power

Power

Inter-unit

Inter-unit

supply

control wiring

supply

control wiring

K Type

6P plug (YEL) / Used for remote control operation. (Refer to the Remote Control Section.)

Control items: (1) Start/stop input

(3) Start signal output

CHK:

2P plug (RED) / Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

2P plug (WHT) / Short-circuiting this plug allows operation to be controlled by the remote controller even when an outdoor unit is not connected. (In this case, alarm E04, which indicates trouble in the serial communication between the indoor and outdoor unit, does not occur.)

2P plug (WHT) / Test pin: Short-circuiting this pin allows the indoor FM (H fan speed), drain pump, flap motor (F1 position), and electronic expansion valve full-open position to be checked.

However this function turns OFF if the indoor unit protection mechanism is activated. The components will operate even if the remote controller and outdoor unit are not connected, however the remote control cannot be used for control even if it is connected. This plug can be used for short-term tests.

Jumper wire / Allows selection of the T10 terminal start/stop signal. (Refer to the Remote Control Section.)

Filter: 2P (WHT) / This terminal is used to connect contact input from the switch, used to detect filter clogging. When the contact is ON, "FILTER" appears on the display of the wired remote controller.

2P plug (WHT) / This terminal sends the signal to the ventilation fan when a remote fan is available ventilation fan is operated by the FAN button on the wired remote controller. (Refer to the Remote Control Section.)

EEPROM (IC10): Nonvolatile memory / Used to store model information and other data. When replacing the PCB, remove the EEPROM from the old PCB and install it onto the new PCB. If there is IC trouble, replace with a new IC (provided with the servicing PCB), and set the necessary information using the wired remote controller. (For the setting procedure, refer to the servicing technical materials.)

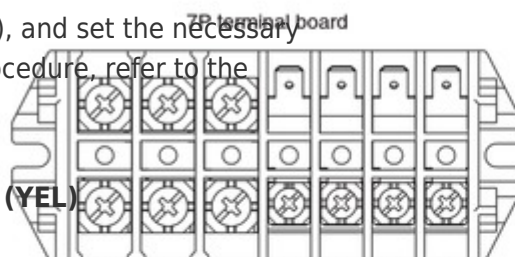
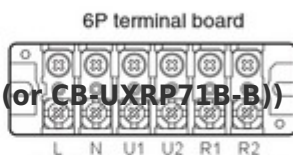
2P (WHT) / This terminal is used to connect contact input from the differential-pressure switch, used to detect filter clogging. When the contact is ON, "FILTER" appears on the display of the wired remote controller.

LED (RED) / Illuminates when the power is ON. (Flashes when the power is OFF.)

Nonvolatile memory / Used to store model information and other data. When replacing the PCB, remove the EEPROM from the old PCB and install it onto the new PCB. If there is IC trouble, replace with a new IC (provided with the servicing PCB), and set the necessary information using the wired remote controller. (For the setting procedure, refer to the servicing technical materials.)

• There are 5P, 6P, 7P and 8P control PCB types for indoor units.

For AC fan motor (CR-UXP71B-B (or CB-UXP71B-B)) – 3P (YEL)



6P terminal board
6P terminal board
L
N
U1 U2 R1 R2
POWER
REMOTE
POWER
REMOTE
SUPPLY
UNIT
CONTROL
SUPPLY
UNIT
CONTROL
LINE
CONTROL
CONTROL
LINE
LINE
LINE
XM, US Type
(2) Remote controller prohibit input
(4) Alarm signal output
7P terminal board
7P terminal board
U1
U2
1(L)
2(N)
R1
Remote
Inter-unit
Power supply
Power supply
Inter-unit
control wiring
controller
control wiring
controller
X, T, D Type
4-18
8P terminal board
8P terminal board
1(L)2(N)
Power
Power
supply
supply
R2
U1
U2
Inter-unit
Inter-unit
Remote
control wiring
control wiring
U Type
R1 R2
Remote
Remote
controller
controller

For DC fan motor (CR-SXRP56B-B) - 5P (BLU)

4-3. Indoor Unit Control PCB Switches and Functions

[Indoor unit control PCB]

- T10 (CN061):** **6P plug (YEL)** / Used for remote control operation. (Refer to the R Control items: (1) Start/stop input (2) Remote controller prohibit (3) Start signal output (4) Alarm signal output
- EXCT (CN073):** **2P plug (RED)** / Can be used for demand control. When input is prohibit operate with the thermostat OFF.
- DISP (CN072):** **2P plug (WHT)** / Short-circuiting this plug allows operation to be controlled by remote controller even when an outdoor unit is not connected. (In this case, the display indicates trouble in the serial communication between the indoor and outdoor units occur.)
- CHK:** **2P plug (WHT)** / Test pin. Short-circuiting this pin allows the indoor unit protection mechanism (drain pump, flap motor (F1 position), and electronic expansion valve) to be checked. However this function turns OFF if the indoor unit protection mechanism is checked. The components will operate even if the remote controller and outdoor unit are not connected, however the remote control cannot be used for control. This plug can be used for short-term tests.
- JP1 (J01):** **Jumper wire** / Allows selection of the T10 terminal start/stop signal. Control Section.) Setting at time of shipment: Pulse signal Jumper wire cut: Static signal (continuous signal)
- Fan drive:** **2P plug (WHT)** / This terminal sends the signal to the ventilation fan. If an available ventilation fan is operated by the FAN button on the wired remote controller to the Remote Control Section.) Use a ventilation fan which can accept the no-voltage contact A signal.
- Filter:** **2P (WHT)** / This terminal is used to connect contact input from the switch, used to detect filter clogging. When the contact is ON, "FILTER" is displayed on the display of the wired remote controller.
- Power LED:** **LED (RED)** / Illuminates when the power is ON. Flashes when there is a trouble in the EEPROM (IC10, IC010: nonvolatile memory).
- EEPROM (IC10):** **Nonvolatile memory** / Used to store model information and other information on the PCB, remove the EEPROM from the old PCB and install it onto the new PCB. In case of IC trouble, replace with a new IC (provided with the servicing PCB) and reprogram the information using the wired remote controller. (For the setting procedure, refer to the servicing technical materials.)
- GRL (CN020):** ● For AC fan motor (CR-UXRP71B-B (or CB-UXRP71B-B)) – 3P
● For DC fan motor (CR-SXRP56B-B) – 5P (BLU)
- There are 5P, 6P, 7P and 8P control PCB types for indoor units.

7P terminal board



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