

Inspection Of Parts - Sanyo 2-WAY ECO-i SPW-C0705DXHN8 Service Manual

Multi system

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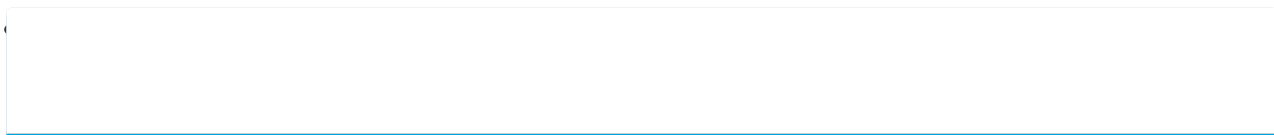
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6. Inspection of Parts

(1) High-pressure switch (63PH1, 63PH2, 63PH3)

- 63PH1: Disconnect the CN042 connector (3P, white) from the outdoor unit control panel. Measure the resistance between socket pins 1 and 3. The resistance is OK if the result is 0 Ω .

- 63PH2: Disconnect the CN044 connector (3P, red) from the outdoor unit control panel. Measure the resistance between socket pins 1 and 3. The resistance is OK if the result is 0 Ω .

- 63PH3: Disconnect the CN233 connector (3P, yellow) from the outdoor unit control panel. Measure the resistance between socket pins 1 and 3. The resistance is OK if the result is 0 Ω .

(2) Electronic control valve (MOV1, MOV2, MOV3, MOV4)

After removing the connector from the PCB, use the following methods to check the valves.

- MOV1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN015 connector (6P, white)

on
the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)

When the voltage is normal, measure the resistance between each pair of pins on the electronic control valve

connector. The connector is normal if all results (pin 5 - pin 1, pin 5 - pin 3, pin 6 - pin 2, pin 6 - pin 4) are approximately 46Ω. (If the results are 0Ω or ∞, replace the coil.)

- MOV2: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN016 connector (6P, red)

on
the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)

When the voltage is normal, measure the resistance between each pair of pins on the electronic control valve

connector. The connector is normal if all results (pin 5 - pin 1, pin 5 - pin 3, pin 6 - pin 2, pin 6 - pin 4) are approximately 46Ω. (If the results are 0Ω or ∞, replace the coil.)

- MOV3: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN229 connector (6P, black)

on
the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)

When the voltage is normal, measure the resistance between each pair of pins on the electronic control valve

connector. The connector is normal if all results (pin 5 - pin 1, pin 5 - pin 3, pin 6 - pin 2, pin 6 - pin 4) are approximately 46Ω. (If the results are 0Ω or ∞, replace the coil.)

- MOV4: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN230 connector (6P, blue)

on
the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used. Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)

When the voltage is normal, measure the resistance between each pair of pins on the electronic control valve

connector. The connector is normal if all results (pin 5 - pin 1, pin 5 - pin 3, pin 6 - pin 2, pin 6 - pin 4) are approximately 46Ω. (If the results are 0Ω or ∞, replace the coil.)

(3) Crank case heater

- Connect a clamp meter to 1 of the 2 crank case heater wires and measure the current. The current is normal

if the result is 0.15 A or higher. (As a guide, the current should be 0.14 A (180 V) - 0.17 A (220 V).)

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e Diagnosis

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