

# Sanyo SPW-T253G56 Service Manual

Split system air conditioner



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# SERVICE MANUAL

SPW-T253G56, SPW-T253GS56 / SPW-C253G5 (/M), SPW-C253G8  
(/M)

SPW-T303G56, SPW-T303GS56 / SPW-C303G5 (/M)

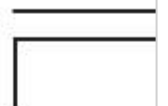
SPW-T363G56, SPW-T363GS56 / SPW-C363G5 (/M), SPW-C363G8  
(/M)

SPW-T483G56, SPW-T483GS56 / SPW-C483G8 (/M)

SPLIT SYSTEM AIR CONDITIONER

INDOOR MODEL No.  
SPW-T253G56

**SA**





SPW-C363G8 SPW-C363G8/M  
SPW-C483G8 SPW-C483G8/M  
REFERENCE NO.



0408\_C\_5

SM  
830043

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## Related Manuals for Sanyo SPW-T253G56

[Air Conditioner Sanyo SPW-X253G56 Service Manual](#)

Split system (72 pages)

[Air Conditioner Sanyo SPW-D253G56 Service Manual](#)

Split system air conditioner (66 pages)

[Air Conditioner Sanyo SPW-X483GH56 Installation Instruction](#)

Eco multi system air conditioner (91 pages)

[Air Conditioner Sanyo SPW-T253GH56 Service Manual](#)

Split system (106 pages)

[Air Conditioner Sanyo SPW-C256VH Technical Data & Service Manual](#)

4-way air discharge semi-concealed wall-mounted ceiling-mounted concealed-duct (517 pages)

[Air Conditioner Sanyo Big PACi 18 Series Technical Data & Service Manual](#)

Big pack i dc inverter (275 pages)

[Air Conditioner Sanyo SPW-XR253GH56 Technical Data & Service Manual](#)

(223 pages)

[Air Conditioner Sanyo 2-WAY ECO-i SPW-C0705DXHN8 Service Manual](#)

Multi system (143 pages)

[Air Conditioner Sanyo Mini ECO-i SPW-ASR74GXH56\(A/B\) Installation Instructions Manual](#)

System air conditioner (49 pages)

[Air Conditioner Sanyo SPW-UMR74EXH56 Technical Data & Service Manual](#)

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[Air Conditioner Sanyo SPW-K075XH Specification Sheet](#)

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[Air Conditioner Sanyo SPW-X253GH56 Service Manual](#)

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[Air Conditioner Sanyo SPW-D253GH56 Service Manual](#)

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[Air Conditioner Sanyo SPW-U253GH56 Service Manual](#)

Split system air conditioner (108 pages)

[Air Conditioner Sanyo SPW-C0705DZH8 Technical Data Manual](#)

3-way eco-i multi system 5 series (703 pages)

[Air Conditioner Sanyo SPW-CR1503GDYH8 Technical Data & Service Manual](#)

W-eco multi system series (377 pages)

## Summary of Contents for Sanyo SPW-T253G56

[Page 1: Service Manual](#)

SERVICE MANUAL FILE NO. SPW-T253G56, SPW-T253GS56/SPW-C253G5 (/M), SPW-C253G8 (/M)



SPW-T303G56, SPW-T303GS56 / SPW-C303G5 (/M) SPW-T363G56, SPW-T363GS56 / SPW-C363G5 (/M), SPW-C363G8 (/M) SPW-T483G56, SPW-T483GS56 / SPW-C483G8 (/M) SPLIT SYSTEM AIR CONDITIONER Section INDOOR MODEL No. PRODUCT CODE No. OUTDOOR MODEL No.

## [Page 2: Please Read Before Starting](#)

Important IMPORTANT! Please Read Before Starting When Transporting  
..... Be careful when picking up and moving the indoor and This air conditioning system meets strict safety and outdoor units. Get a partner to help, and bend your knees operating standards. As the installer or service person, it when lifting to reduce strain on your back.

## [Page 3: Table Of Contents](#)

WHO SHOULD USE THIS MANUAL This service manual is made to assist the service technician apply his knowledge and training to this model air conditioner. This manual is written both for experienced service persons and those who are new to air conditioning service. To help those with less experience or who are new to this kind of unit we have included more explanations of basic procedures in simple language than is usual in some service manuals.

[Page 4](#) 4. SERVICE PROCEDURES ..... 55 Troubleshooting .....56 A Sensor is Defective .....67 Operation of Major Electrical Parts .....67 Checking the Electrical Components .....68 5. INSTRUCTION MANUAL ..... 73 Wired Remote Controller / RCS - T251G .....74 Wireless Remote Controller / RCS - 5PS3E .....87 SM830043 -...

[Page 5](#) Introduction: Read Me First! WHAT IS IN THIS MANUAL This manual will help you understand and service the air conditioner. To help you find the information you need, we have divided it into 5 main sections. Each section is divided into chapters with charts, tables and explanations to help you find and repair problems.

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[Page 9](#) 1. Specifications 1-1 Unit Specifications MODEL No. Indoor Unit SPW-T303G56 SPW-T303GS56 Outdoor Unit SPW-C303G5, C303G5/M POWER SOURCE 220 - 230 - 240 V / 1 Phase / 50 Hz PERFORMANCE Cooling Capacity BTU / h 30,000 Air circulation (Hi/Me/Lo) m<sup>3</sup> / h 1,380/1,200/1,020 Moisture removal(High) Liters/h...

[Page 10](#) 1. Specifications 1-1 Unit Specifications MODEL No. Indoor Unit SPW-T363G56 SPW-T363GS56 Outdoor Unit SPW-C363G5, C363G5/M POWER SOURCE 220 - 230 - 240 V / 1 Phase / 50 Hz PERFORMANCE Cooling Capacity 10.6 BTU / h 36,000 Air circulation (Hi/Me/Lo) m<sup>3</sup> / h 1,680/1,410/1,200 Moisture removal(High)

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[Page 12](#) 1. Specifications 1-1 Unit Specifications MODEL No. Indoor Unit SPW-T363G56 SPW-T363GS56 Outdoor Unit SPW-C363G8, C363G8/M POWER SOURCE 380 - 400 - 415 V / 3N / 50 Hz PERFORMANCE Cooling Capacity 10.6 BTU / h 36,000 Air circulation (Hi/Me/Lo) m<sup>3</sup> / h 1,680/1,410/1,200 Moisture removal(High) Liters/h...

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PERFORMANCE Cooling Capacity BTU / h 47,800 Air circulation (Hi/Me/Lo) m<sup>3</sup> / h  
1,920/1,680/1,320 Moisture removal(High) Liters/h...

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[Page 17](#) 1. Specifications 1-2 Major Component Specifications (A) Indoor Unit MODEL No.  
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SPW-C303G5 SPW-C363G5 SPW-C253G5/M SPW-C303G5/M SPW-C363G5/M Source 220 - 230 -  
240 V / 1 phase / 50 Hz Compressor Rotary (Hermetic) Model ... Code No. C - R221H5V C -  
R240H5W Nominal output 2,200...

[Page 19](#) 1. Specifications 1-2 Major Component Specifications (B) Outdoor Unit MODEL No.  
SPW-C253G8, SPW-C253G8/M Source 380 - 400 - 415 V / 3 phase / 50 Hz Compressor Rotary  
(Hermetic) Model ... Code No. C - R224H8S Nominal output 2,200 Compressor oil 1,350 Coil  
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[Page 20](#) 1. Specifications 1-2 Major Component Specifications (B) Outdoor Unit MODEL No.  
SPW-C363G8 SPW-C483G8 SPW-C363G8/M SPW-C483G8/M Source 380 - 400 - 415 V / 3 phase /  
50 Hz Compressor Rotary (Hermetic) Scroll (Hermetic) Model...Code No. C - R243H8T ZR61KC -  
TFD - 522 Nominal output 2,400 3,750...

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1. Specifications 1-3 Other Component Specifications (A) Indoor Unit MODEL No. SPW-T253G56  
SPW-T303G56 SPW-T363G56 SPW-T483G56 Power Transformer ATR - I75A Rated Primary AC  
230 V, 50 Hz Secondary 10.6 V, 0.93 A Capacity 9.86 VAC Coil resistance WHT - WHT : 101 BRN  
-...

### [Page 22: \(B\) Outdoor Unit](#)

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SPW-C303G5 SPW-C363G5 SPW-C253G5/M SPW-C303G5/M SPW-C363G5/M Compressor Motor  
Magnetic Contactor FMCA - 1SZ607 Coil rated AC 220 - 240 V, 50 Hz Coil resistance (at 20 C) 15  
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### [Page 23: Dimensional Data](#)

1. Specifications 1-4 Dimensional Data (A) Indoor Unit : 25, 30, 36, 48 Type 25, 30 type 36, 48  
type 1270 1570 1048 1190 1490 Ref. gas line  $\varnothing$  15.88  $\varnothing$  19.05 Ref. liquid line  $\varnothing$  6.35  $\varnothing$  9.52  
Refrigerant gas line (Wide tube) Refrigerant liquid line (Narrow tube)

### [Page 24: \(B\) Outdoor Unit](#)

1. Specifications 1-4 Dimensional Data (B) Outdoor Unit : SPW-C253G5, SPW-C253G5/M SPW-  
C253G8, SPW-C253G8/M SPW-C303G5, SPW-C303G5/M Dimension : mm Hole for anchor bolt (4-  
 $\varnothing$ 13) Refrigerant tube joint (narrow tube) Flare connection 1/4 in (6.35 mm) Refrigerant tube  
joint (wide tube) Flare connection 5/8 in (15.88 mm) Refrigerant tubing inlet Power supply inlet  
0411\_C\_S...

[Page 25](#) 1. Specifications 1-4 Dimensional Data (B) Outdoor Unit : SPW-C363G5, SPW-

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## [Page 26: Refrigerant Flow Diagram](#)

1. Specifications 1-5 Refrigerant Flow Diagram Indoor Unit : SPW-T253GS56 Outdoor Unit : SPW-C253G5, SPW-C253G5/M SPW-T303GS56 SPW-C303G5, SPW-C303G5/M SPW-T253G56 SPW-C253G8, SPW-C253G8/M SPW-T303G56 Wide tube service valve Strainer Capillary O. D. Accumulator 15.88 mm (5/8") High pressure switch Narrow tube service valve Strainer O.

## [Page 27: Operating Range](#)

1. Specifications 1-5 Refrigerant Flow Diagram Indoor Unit : SPW-T483GS56 Outdoor Unit : SPW-C483G8, SPW-C483G8/M SPW-T483G56 Wide tube service valve O. D. Accumulator 19.05 mm (3/4") Narrow tube service valve Strainer O. D. Sub-condenser 9.52 mm (3/8") Fig. 5-2 1-6 Operating Range Temperature Indoor air intake temp.

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2. Processes and functions 2. PROCESSES AND FUNCTIONS Room Temperature Control .....30 Freeze Prevention .....31 Outdoor Fan Control .....31 SM830043 – 29 –...

## [Page 30: Room Temperature Control](#)

2. Processes and functions 2-1 Room Temperature Control The Unit adjusts room temperature by turning the outdoor unit's compressor ON and OFF. This process is controlled by the thermostat located in the remote control unit. The figures on this and the next pages show how each part of the system performs when the room temperature changes and the thermostat activates the compressor to start (thermo ON) or stop (thermo OFF).

## [Page 31: Freeze Prevention](#)

2. Processes and functions 2-2 Freeze Prevention Freeze Prevention keeps the indoor heat exchange coil from freezing. Freezing reduces the efficiency of the unit, and frost buildup on the coil blocks cool air circulation from the indoor unit's fan. FREEZE FREEZE PREVENTION PREVENTION...

## [Page 32](#) 2. Processes and functions SM830043 – 32 –...

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[Page 35](#) 3. Electrical data Indoor Unit 1 1 1 1 1 SPW-T253G56, SPW-T363G56, SPW-T483G56 • Schematic Diagram CR-X363GS Controller 4P-1 4P-4 Coil 49FMI 4P-2 Symbols Description Symbols Description Indoor Fan Motor CR-X363GS Indoor Controller 49FMI Indoor Motor Thermal Protector Remote Control Switch...

[Page 36](#) 3. Electrical data Indoor Unit 2 2 2 2 2 SPW-T303G56 (Coil) GRN/YEL SM830043 – 36 –...

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[Page 39](#) 3. Electrical data Indoor Unit 3 3 3 3 3 SPW-T253GS56, SPW-T363GS56, SPW-T483GS56 • Schematic Diagram CR-X363GS Controller 4P-1 4P-4 Coil 49FMI Room 4P-2 Symbols Description Symbols Description Indoor Fan Motor CR-X363GS Indoor Controller 49FMI Indoor Motor Thermal Protector Indicator Lamp Assy Capacitor Switch Assy Fuse...

[Page 40](#) 3. Electrical data Indoor Unit 4 4 4 4 4 SPW-T303GS56 (Room) (Coil) GRN/YEL SM830043 - 40 -...

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3. Electrical data Outdoor Unit 1 1 1 1 1 SPW-C253G5 SPW-C253G5/M • Electric Wiring Diagram Terminal Plate Connector 2P (WHT) 63PH Earth Terminal W 854-2-5268-461-00-1 (C253G5) SM830043 - 42 -...

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3. Electrical data Outdoor Unit 1 1 1 1 1 SPW-C253G5 SPW-C253G5/M • Schematic Diagram 63PH Symbols Description Compressor motor Fan Motor Compressor Motor Magnetic Contactor 63PH High Pressure Switch Fan Speedcontrol Thermostat C1, 2 Capacitor Overload relay Auxiliary Relay Connector Terminal Plate S 854-2-5268-461-00-1 (C253G5)

### [Page 44: Electric Wiring Diagram](#)

3. Electrical data Outdoor Unit 2 2 2 2 2 SPW-C303G5 SPW-C303G5/M • Electric Wiring Diagram Terminal Plate Connector 2P (WHT) 63PH Earth Terminal W 854-2-5268-462-00-1 (C303G5) SM830043 - 44 -...

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[Page 48](#) 3. Electrical data Outdoor Unit 4 4 4 4 4 SPW-C253G8 SPW-C253G8/M • Electric Wiring Diagram Relay Terminal Plate Connector 2P (WHT) 63PH Earth Connector Terminal 6P (WHT) W 854-2-5268-458-00-0 (C253G8) SM830043 - 48 -...

[Page 49](#) 3. Electrical data Outdoor Unit 4 4 4 4 4 SPW-C253G8 SPW-C253G8/M • Schematic Diagram 63PH Symbols Description Compressor motor Fan Motor Compressor Motor Magnetic Contactor Compressor Motor Overcurrent Relay Compressor Motor Thermal Protector Negative Phase Relay 63PH High Pressure Switch Fan Speedcontrol Thermostat Capacitor Auxiliary Relay...

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4. Service procedures 4. SERVICE PROCEDURES Troubleshooting .....56 (1) Check before and after Troubleshooting .....56 (2) Air conditioner does not operate .....57 (3) Outdoor unit does not run .....61 (4) Indoor unit does not run ..... 63 (5) Some part does not operate .....

### [Page 56: Troubleshooting](#)

4. Service procedures 4-1 Trobleshooting (1) Check before and after Troubleshooting Many problems may happen because of wiring or power supply problems, so you should check these areas first. Problems here can cause false results in some of the other tests, and so should be corrected first.

### [Page 57: Air Conditioner Does Not Operate](#)

4. Service procedures Air conditioner does not operate 1 1 1 1 1 Circuit breaker trips (or fuse blows). (a) When the circuit breaker is set to ON, it is tripped soon. • There is a possibility of ground fault. •...

[Page 58](#) 4. Service procedures (b) Circuit breaker trips in several minutes after turning the air conditioner on. • There is a possibility of short circuit. • Check capacity of circuit Replace it with a breaker. suitable one. Is capacity of circuit (= larger capacity) breaker sufficient ? •...

[Page 59](#) 4. Service procedures C. Check "Operation selector" switch in the indoor unit. : In case of wireless remote control unit (GS type) • Has "Operation selector" IND. LAMP Ass'y or P.C.B. switch been set to ON Ass'y in the indoor unit position ? is defective.

[Page 60](#) 4. Service procedures Check. auxiliary relay. (1Y or 2Y) • Check coil resistance of auxiliary relay. (1Y or 2Y) 0620\_X\_S Check indoor fan motor thermal protector (49FMI) • Disconnect the socket from 9P (WHT) connector. • Check the continuity between No. 8 and No.9 poles of the 9P socket.

### [Page 61: Outdoor Unit Does Not Run](#)

4. Service procedures Outdoor unit does not run. Check COOL/FAN selector switch in the remote control unit. • Is COOL/FAN selector switch Set to COOL. set to COOL ? 0623\_X\_S Check set temperature. Try to lower set temperature by Temperature setting button "COOLER".

[Page 62](#) 4. Service procedures Check compressor motor thermal protector (49C) • Check compressor motor Is temperature of compressor thermal protector. (49C) abnormally high ? Refrigerant gas shortage. Charge refrigerant gas. Compressor is defective. 0626\_X\_S • Check compressor motor magnetic contactor. (52C) 0627\_X\_S (Only outdoor fan does not run.) D.

### [Page 63: Indoor Unit Does Not Run](#)

4. Service procedures Indoor unit does not run. (Indoor fan and louver motor do not run. P.C.B. Ass'y is defective. 0630\_X\_S Some part does not operate. (1) Indoor fan does not run. Check fan casing Remove foreign for foreign matter matter or repair.

### [Page 64: Outdoor Fan Does Not Run](#)

4. Service procedures Outdoor fan does not run. • Check fan casing Remove foreign for foreign matter matter or repair. Fan cannot on the inside. be rotated. • Check fan rotation. Rotate the

fan gently once or twice by hand. •...

### [Page 65: Poor Cooling](#)

4. Service procedures Poor cooling Check installation position Change installation of remote control unit. position of remote • Does cool air from air conditioner reach remote control unit directly ? Insulate wide tube and • Is wide tube between indoor unit then execute taping with and outdoor unit insulated ? narrow tube.

### [Page 66: Excessive Cooling](#)

4. Service procedures (10) Excessive cooling. Set the temperature to higher value using • The set temperature is too low. temperature setting button of the remote control unit. • Is the remote control unit installed Change installation at a place where it can position of the remote detect the room temperature control unit.

### [Page 67: A Sensor Is Defective](#)

4. Service procedures 4-2 A Sensor is Defective. 1 1 1 1 Indoor (heat exchanger) coil temp. Sensor is defective. (a) Open (=No continuity in sensor) Compressor and outdoor fan repeat ON for 10 minutes and OFF for 6 minutes when sensor opens.

### [Page 68: Checking The Electrical Components](#)

4. Service procedures 4-4 Checking the Electrical Components Earthed wire Measurement of Insulation Clip Resistance • The electrical insulation is acceptable when the Probe resistance exceeds 1 M . Insulation tester 0638\_X\_S Power Supply Wires Clamp the earthed wire of the Power Supply wires Fig.

### [Page 69: Checking The Protective Devices](#)

4. Service procedures Checking the Protective Devices • Disconnect the connector, which consists of P (plug) and S (socket) when you want to check the protective device. • Then check continuity among plug's (and/or socket's) terminal as in Fig. 46. •...

### [Page 70: Checking The Electrical Parts](#)

4. Service procedures Checking the Electrical Parts Power transformer (TR1) ....Indoor unit \*Measure the coil resistance. • Primary 220-240 V ; Measure the resistance between two WHT lead wire terminals of socket connected to power transformer. • Secondary 10.6V ; Measure the resistance between two BRN lead wires. Refer to "1-3-(A) Other component specifications".

### [Page 71: Thermistor Characteristic Curve](#)

4. Service procedures Fuse on indoor P.C.B. Ass'y • Remove the P.C.B. Ass'y from the electrical component box. Then pull out the fuse from the P.C.B. Ass'y. (Fig. 48) Fuses Indoor P.C.B. Ass'y 0644\_X\_S Fig. 48 • The check for continuity of the fuse by using the multimeter. (Fig. 49) Having continuity is acceptable.

This manual is also suitable for:

[Spw-t253gs56Spw-t303gs56Spw-c303g5 \(/m\)Spw-c253g5 \(/m\)Spw-c253g8 \(/m\)Spw-t363g56 ...](#) [Show all](#)