





## Sanyo VCC-9300 Mechanism Service Technical Information

Dome type camera



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**MECHANISM SERVICE  
TECHNICAL INFORMATION**

**Dome type camera**

L54F4/US, XE  
L5AE4/XE, US

FILE NO.

**VCC-9300**

(Product code: 117 116 00)

(U.S.A.)

(Canada)

(Taiwan)

(Korea)

# VCC-9300P

(Product code: 117 116 01)  
(Europe)

# VCC-9400P

(Product code: 117 119 00)  
(Europe)

# VCC-9400

(Product code: 117 119 01)  
(U.S.A.)  
(Canada)  
(Taiwan)  
(Korea)

REFERENCE No.MM5310481

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(143 pages)

[Digital Camera Sanyo VPC-E875 User Manual](#)

(63 pages)

## Summary of Contents for Sanyo VCC-9300

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TOOLS Service tools .....

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### [Page 5: Exploded View Of The Unit B](#)

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5. Exploded view of the unit D Quantity Parts name BASE PRESSURE PLATE STOPPER PLATE STOPPER CORD BUSH PACKING INSULATION PLATE RATING LABEL FERRITE CORE VENTILATION FILM SPRING A O-RING POWER SUPPLY MICRO SWITCH FH SCR. 3\*8MM FH SCR. 3\*10MM RH SW/W SCR.

### [Page 8: Service Tools](#)

SERVICE TOOLS Quantity Jig No. Parts name GUIDE WRENCH A VHJ-0151 GUIDE WRENCH B VHJ-0152 PULLEY JIG VHJ-0153 EXTENSION CABLE VHJ-0154 OIL COMPOUND VHJ-0155 -8-...

### [Page 9: Disassembly Procedure Of Main Parts](#)

DISASSEMBLY PROCEDURE OF MAIN PARTS 1. Removing Base unit 1-1. Lift up on Stopper 19 from Base unit, then snap it to stop. 1-2. Turn Main unit counterclockwise 10 degree to remove Base unit from Main unit. 1-3. Remove Sefety wire ass'y 154 from Base unit. 1-3-1.

### [Page 10: Removing Main Board Ass'y](#)

3. Removing Main board ass'y 3-1. Remove Screws 117 (x3) on Rotation unit, then remove Inner cover 6 . Screws 2.6x4 mm (x3) Inner cover Figure of Step 3-1 This is the disassembly procedure after the disassembling of: 1. Removing Base unit: Page 9 2.

### [Page 11: Removing Power Board Ass'y](#)

4. Removing Power board ass'y 4-1. Removing Power board ass'y 4-1-1. Remove the connectors (x3) on Power board ass'y 203 . 4-1-2. Remove Screws 104 (x4), then remove Power board ass'y 203 . Screws 2x4 mm (x4) Power board ass'y Figure of Step 4-1 This is the disassembling procedure after the disassembling of: 1.

### [Page 12: Removing Camera Unit And Fan Motor Ass'y](#)

5. Removing Camera unit and Fan motor ass'y 5-1. Turn Camera cover 5 clockwise as far as possible. 5-2. Remove Screws 103 (x4), then remove Camera cover 5 . Camera cover Screws 2.6x3 mm (x4) Figure of Steps 5-1 and 5-2 This is the disassembling procedure after the disassembling of: 1.

### [Page 13: Removing Slip Ring Ass'y](#)

6. Removing Slip ring ass'y 6-1. Remove Screws 107 (x4), then remove Camera base 11 and Camera cover 5 . Camera cover Camera base Screws 3x8mm (x4) Figure of Step 6-1 This is the disassembling procedure after the disassembling of: 1.

### [Page 14: Removing Pan Motor \(Motor Ass'y\)](#)

7. Removing Pan motor (Motor ass'y) 7-1. Remove Pan belt (Synchro belt 140) 55 . Turn Pan belt (Synchro belt 140) 55 while lifting up on, so that you can remove it easily. 7-2. Remove the connector from Pan motor (Motor ass'y) 152 . Pan belt (Synchro belt 140) Connector...

### [Page 15: Removing Pan Belt \(Synchro Belt 140\) And Synchro Pulley \(N132\)](#)

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### [Page 16: Removing Tilt Motor \(Motor Ass'y\)](#)

9. Removing Tilt motor (Motor ass'y) 9-1. Remove Screws 107 (x4), then remove Camera base 11 and Camera cover 5 . Camera cover Camera base Screws 3x8mm (x4) Figure of Step 9-1 This is the disassembling procedure after the disassembling of: 1.

### [Page 17: Removing Tilt Belt \(Synchro Belt \(N180\)\) And Synchro Pulley \(N132\)](#)

10. Removing Tilt belt (Synchro belt (N180)) and Synchro pulley (N132) 10-1. Remove Screws 107 (x4), then remove Camera base 11 and Camera cover 5 . Camera cover Camera base Screws 3x8mm (x4) Figure of Step 10-1 This is the disassembling procedure after the disassembling of: 1.

### [Page 18: Removing Bearing Tilt Mechanism Part](#)

11. Removing Bearing Tilt mechanism part 11-1. Remove Camera cable 155 while bending the connector on the camera side 90 degree. Camera cable Figure of Step 11-1 This is the disassembling procedure after the disassembling of: 1. Removing Base unit: Page 9 2.

### [Page 19: Removing SY-1 Board Ass'y \(Compl Pwb SY-1\)](#)

12. Removing SY-1 Board ass'y (Compl pwb SY-1) 12-1. Remove Screws 111 (x4) from Base 2. 12-2. Remove the five connectors on SY-1 board ass'y (Compl pwb SY-1) 202 , then remove SY-1 board ass'y (Compl pwb SY-1) 202 . Screws SY-1 board ass'y 3x6 mm (x4)

### [Page 20: Removing Safety Wire Ass'y](#)

14. Removing Safety wire ass'y 14-1. Remove Screws 107 (x2) on Base 2 , then remove Safety wire ass'y 154 . Base Safety wire ass'y Screws 3x8 mm (x2) Figure of Step 14-1 This is the disassembling procedure after the disassembling of: 1.

### [Page 21: Reassembly Procedure Of Main Parts](#)

REASSEMBLY PROCEDURE OF MAIN PARTS 1. Reassembling Slip ring ass'y 1-1. Install Guide 18 to Slip ring ass'y 151 while making sure of the direction. 1-2. Put the lead wires into Guide 18 , then tighten Screws 115 (x2) to install Connector housing. Torque: 98 cN•m (10 kgf•cm) Screws 3x8 mm (x2)

### [Page 22: Reassembling Bearing \(Tilt Mechanism Part\) And Synchro Pulley \(N132\)](#)

2. Reassembling Bearing (Tilt mechanism part) and Synchro pulley (N132) 2-1. Set Bearing 53 , Shim 17 and Bearing 53 to T-Shaft 23 in order as shown. Bearing (x2) T-Shaft Shim Figure of Step 2-1 Set the unit reassembled in Step 2-1 to T-Holder 4 , then set Space collar 24 . Set them into the D-shaped hole of Main 2-2.

[Page 23](#) 2-3. Install Ritina 22 to the unit reassembled in Step 2-2 by tightening with the regulated torque using Guide wrench A 301 . Guide wrench A: VHJ-0151 Torque: 60 cN•m (6.1 kgf•cm), Apply Screw lock after tightening screws. The unit reassembled in Step 2-2 Ritina Guide wrench A...

### [Page 24: Installing Slip Ring Ass'y](#)

3. Installing Slip ring ass'y 3-1. Install the unit reassembled in Step 1-3 (Slip ring) to the unit reassembled in Step 2-4, then tighten Screws 101 (x3) . Torque: 75.6 CN.m (7.7kgf.cm) Apply



Screw lock after tightening screws. Note1: Keep the unit reassembled in Step 1-3 (Slip ring) pressing to the direction of the arrow to secure with the screws.

### [Page 25: Installing Pan Motor \(Motor Ass'y\) And Pan Belt \(Synchro Belt 140\)](#)

4. Installing Pan motor (Motor ass'y) and Pan belt (Synchro belt 140) 4-1. Set the thinner side of Pulley jig 303 to the shaft of Pan motor (Motor ass'y) 152 , and install Synchro pulley (N22) 21 onto them, then tighten Screws 116 (x2). Pulley jig: VHJ-0153 Torque: 75.6 cN•m (7.7 kgf•cm) Set screws (x2)

### [Page 26: Installing Tilt Motor \(Motor Ass'y\) And Tilt Belt \(Synchro Belt 180\)](#)

5. Installing Tilt motor (Motor ass'y), Tilt belt (Synchro belt 180) 5-1. Set the thicker side of Pulley jig (t5.5 mm) 303 to the shaft of Tilt motor (Motor ass'y) 152 , and install Synchro pulley (N22) 21 onto them, then tighten set Screws 116 (x2). Pulley jig: VHJ-0153 Torque: 75.6 cN•m (7.7 kgf•cm) Pulley jig (VHJ-0153)

### [Page 27: Installing Camera Cover](#)

6. Installing Camera cover 6-1. Put Camera cover 5 between the unit reassembled in Step 5-4 and Camera base 11 , and tighten Screws 107 (x4) to install. Torque: 75.6 cN•m (7.7 kgf•cm) Apply Screw lock after tightening screws. Note1: Make sure of the direction to install. The unit reassembled in Step 5-4 Camera cover...

### [Page 28: Installing Frame A And Supporter](#)

8. Installing Frame A and Supporter 8-1. Install Frame A 9 to the unit reassembled in Step 7-1, then tighten Screws 102 (x2). Torque: 43.2 cN•m (4.4 kgf•cm) Apply Screw lock after tightening screws. Note1: Install Frame A 9 as it comes to the center as possible. Screw lock (x2) Frame A...

### [Page 29: Reassembling Camera Unit](#)

9. Reassembling Camera unit 9-1. Install Camera support 12 to the right of Camera 64 , then tighten Screws 104 (x2). Torque: 21.2 cN•m (2.1 kgf•cm) Apply Screw lock after tightening screws. Note: Keep Camera support 12 pressing towards the direction of the arrow, then secure with the screws in the upper. 9-2.

[Page 30](#) 9-5. Install Magnet 59 to Magnet base 8 making sure of the direction, then apply some instant glue into the space to fix. Magnet (Fix using some instant glue.) Magnet base \*Make sure of the position of the mark (View from the front to install) Figure of Step 14-1 9-6.

### [Page 31: Installing Camera Unit](#)

10. Installing Camera unit 10-1. Pass 11P connector of Camera cable 155 through the tilt hole of the unit reassembled in Step 8-3. 10-2. Then install the 11P connector to I-F board ass'y 204 of the unit in Step 9-9. 10-3.

### [Page 32: Installing Main Board Ass'y And Power Board Ass'y](#)

11. Installing Main board ass'y and Power board ass'y 11-1. Install Main board ass'y 201 to the unit reassembled in Step 10-4, then tighten Screws 104 (x4). Torque: 21.2 cN•m (2.1 kgf•cm) Note1: Pull out the cables, from Pan motor (Motor ass'y), Tilt motor (Motor ass'y) and Slip ring, as shown below. Note2: Keep Main board ass'y 201 pressing towards the direction of the arrow to secure with the screws 104 (x4).

### [Page 33: Arranging Harness](#)

12. Arranging Harness 12-1. Add Power/ Main cable ass'y 156 to the unit reassembled in Step 11-2, and make every connection of the connectors. Then shape Harness by Binder 63 . Note1: Refer to the following for arranging Harness. (The portions indicated by circles are the cables banded together.) Note2: Make sure to arrange the cables without touching the inside of Case 1 when turning.

### [Page 34: Installing Inner Cover](#)

13. Installing Inner cover 13-1. Install Inner cover 6 to the unit reassembled in Step12-1, then tighten Screws 117 (x3). Torque: 43.2 cN•m (4.4 kgf•cm) Apply Screw lock after tightening

screws. Note1: Make sure to install without cables caught in. The unit reassembled in Step 12-1  
Screws 2.6x4 mm...

### [Page 35: Installing The Parts To Case](#)

14. Installing the parts to Case 14-1. Install Magnet 59 to Magnet base 8 while making sure of the direction, then apply some instant glue between them. (This step is the same procedure with Step 9-5.) Magnet (Fix using some instant glue.) Magnet base \*Make sure of the position of the mark (View from the front to install)

[Page 36](#) 14-5. Apply some Oil compound 307 to the specified position of Case 1 . 14-6. Install the unit reassembled in Step 13-1 to Case 1 , then tighten Screws 101 (x4). Torque: 75.6 cN•m (7.7 kgf•cm) Apply screw lock after tightening screws. Note1: Making sure of the direction to install Case 1 while referring the figure of Note1.

### [Page 37: Installing The Parts To Base Section](#)

15. Installing the parts to Base section 15-1. Set Spring A 57 and Stopper 19 into the groove of Base 2 as indicated by the arrow. 15-2. Install Stopper plate 16 as shown, then tighten Screw 109 (x1). Torque: 75.6 cN•m (7.7 kgf•cm) Apply Screw lock after tightening screws.

[Page 38](#) 15-5. Install Cord bush 25 to Compound cable ass'y 164 and DC24V power cable ass'y 160 as shown. Note1: Make sure of the direction of Cord bush 25 . Note2: Make sure of the direction of DC24V power cable ass'y 160 . Compound cable ass'y DC24V power cable ass'y Make sure of the...

[Page 39](#) 15-7. Install Packing 26 and Pressure plate 14 in order, then tighten Screws 108 (x4). Torque: 75.6 cN•m (7.7 kgf•cm) Note1: Make sure to install Packing 26 without forcing out. Screws 3x10 mm (x4) Pressure plate Packing Figure of Step 15-7 15-8.

### [Page 40: Reassembling And Installing Power Supply](#)

16. Reassembling and Installing Power supply 16-1. Install Power switch cable ass'y 158 to the connector of Micro switch 62 . 16-2. Install Micro switch 62 to Power supply 61 , then tighten Screws 110 (x2). Torque: 30.0 cN•m (3.0 kgf•cm) Power switch cable ass'y Screws 2.3x10 mm (x2)

[Page 41](#) 16-5. Cover Power supply 61 using Insulation plate 27 . Insulation plate Power supply Figure of Step 16-5 Side View 16-6. Install the unit reassembled in Step 16-5, then tighten Screws 111 (x4). Torque: 75.6 cN•m (7.7 kgf•cm) Apply Screw lock after tightening screws. 16-7.

### [Page 42: Installing Sy-1 Board Ass'y \(Compl Pwb Sy-1\)](#)

17. Installing SY-1 board ass'y (Compl pwb SY-1) 17-1. Install Relay/I-O cable ass'y 159 to SY-1 board ass'y (Compl pwb SY-1) 202 , then tighten Screws 112 (x2) using Washers 114 (x2) and Nuts 113 (x2). Torque: 75.6 cN•m (7.7 kgf•cm) Note1: Apply Screw lock after tightening.

[Page 43](#) 17-3. Install the five connectors to SY-1 board ass'y (Compl pwb SY-1) 202 . 17-4. Install Ferrite core 51 to four cables, except DC24V power cable ass'y 160 and Power/ I-O cable ass'y 157 , using Binder 63 . Note1: Install the parts referring to the following pictures. Note2: Make sure to install Ferrite core 51 without catching cables.

### [Page 44: Installing O-Ring To Base](#)

18. Installing O-Ring to Base 18-1. Install O-Ring 60 to the groove of Base 2 . 19. Setting Switch of SY-1 board ass'y (Compl pwb SY-1) 19-1. Set the switches of [S0201] and [S0202] on SY-1 board ass'y (Compl pwb SY-1) 202 . O-Ring The unit reassembled in Step 17-5 Figure of Step 18-1...

### [Page 45: Installing O-Ring To Clear Dome](#)

20. Installing O-Ring to Clear dome 20-1. Install O-Ring 60 to Clear dome 28 . O-Ring Clear dome Figure of Step 20-1 21. Installing Base unit and Main unit 21-1. Install Safety wire ass'y 154 to Main unit. 21-1-1. Pull out the ball of Safety wire ass'y 154 of Base unit, then set it into the groove inside of Main unit as shown. 21-1-2.

## [Page 46: Adjusting The Tilt Of Inner Cover](#)

22. Adjusting the tilt of Inner cover 22-1. Verify the tilt of Inner cover 6 . 22-1-1. Verify that the tilt of Inner cover 6 , due to Frame A 9 , is parallel with the Case 1 . 22-1-2. If you can find the tilt as shown, adjust it by pushing the portion of the arrow down. 22-1-3.

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This manual is also suitable for:

[Vcc-9400Vcc-9300p](#)