

Service Manual

Digital Camera

Model No. **DMC-FH27DP**

Vol.1

Colour

(S)-----Silver Type

(K)-----Black Type

(R)-----Red Type



Please use this manual together with the other documents for
Model No.DMC-FH27P/PC/PR/PU/GA/GC/GF/GK/GN Vol.1 Order No. DSC1102006CE
Model No.DMC-FS37EB/EE/EG/EP Vol.1 Order No. DSC1102006CE

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Introduction

This Service Manual contains technical information which will help service personnel to understand and service the Digital Camera DMC-FH27DP.

The Digital Camera DMC-FH27DP have been developed based on DMC-FH27P.

Since this Service Manual does not cover the same part which is already described in the Service Manual for DMC-FH27P.

When servicing, refer to the descriptions in the Service documents for

DMC-FH27P/PC/PR/PU/GA/GC/GF/GK/GN/FS37EB/EE/EG/EP Vol.1 Order No. DSC1102006CE

NOTE:

Compared with DMC-FH27P, only the different part is that the packing part & accessories section of the replacement parts list section.

2 Service Navigation

2.1. How to Define the Model Suffix (NTSC or PAL model)

There are six kinds of DMC-FS37 and FH27, regardless of the colours.


- a) DMC-FH27P/PC
- b) DMC-FS37EB/EG/EP
- c) DMC-FS37EE
- d) DMC-FH27GK
- e) DMC-FH27GN
- f) DMC-FH27PR/PU/GA/GC/GF
- g) DMC-FH27DP

What is the difference is that the "INITIAL SETTINGS" data which is stored in Flash-ROM mounted on MAIN P.C.B..


2.1.1. Defining methods:

To define the model suffix to be serviced, refer to the nameplate which is putted on the bottom side of the Unit.


a) DMC-FH27P/PC
The nameplate for these models show the following Safety registration mark.




b) DMC-FS37EB/EG/EP
The nameplate for these models show the following Safety registration mark.




c) DMC-FS37EE
The nameplate for this model shows the following Safety registration mark.



d) DMC-FH27GK
The nameplate for this model shows the following Safety registration mark.

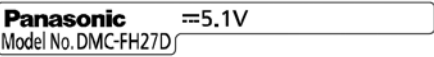


e) DMC-FH27GN
The nameplate for this model shows the following Safety registration mark.



f) DMC-FH27PR/PU/GA/GC/GF
The nameplate for these models do not show any above Safety registration mark.

g) DMC-FH27DP
The nameplate for this model show the following model name.



NOTE:

After replacing the MAIN P.C.B., be sure to achieve adjustment.

The service software is available at "TSN Website". To download, click on "Support Information from NWBG/VDBG-AVC".

2.1.2. INITIAL SETTINGS:

After replacing the MAIN P.C.B., be sure to perform the initial settings after achieving the adjustment by ordering the following procedure in accordance with model suffix of the unit.

1. IMPORTANT NOTICE:

Before proceeding Initial settings, be sure to read the following CAUTIONS.

CAUTION 1:(INITIAL SETTINGS)

---AFTER REPLACING THE MAIN P.C.B. ---

*.The model suffix can be chosen **JUST ONE TIME**.

*.Once one of the model suffix has been chosen, the model suffix lists will not be displayed, thus, it can not be changed.

CAUTION 2:(Stored picture image data in the unit)

This unit employs "Built-in Memory" for picture image data recording. (Approx. 70 MB)

After proceeding "INITIAL SETTINGS", the picture image data stored in the unit is erased.

2. PROCEDURES:

- Precautions: Read the above "CAUTION 1" and "CAUTION 2", carefully.

- Preparation:

- Attach the Battery or AC Adaptor with a DC coupler to the unit.

(Since this unit has built-in memory, it can be performed without inserting SD memory card.)

1. Turn the Power on.

2. Select with the touch panel in order to [REC] mode and [NORMAL PICTURE] mode.

3. Turn the Power off.

(If the unit is other than [NORMAL PICTURE] mode, it does not display the initial settings menu.)

- **Step 1. The temporary cancellation of "INITIAL SETTINGS":**

While pressing "W side of [ZOOM LEVER]", [SHUTTER BUTTON] and touch the screen (Any position of the screen is acceptable) simultaneously, turn the power on.

- **Step 2. The cancellation of "INITIAL SETTINGS":**

1. Select with the touch panel to [PLAYBACK] mode.

2. Version display in the playback menu, touch near the center of screen, while [SHUTTER BUTTON] is pressed halfway.

3. Turn the power off.

The LCD displays the "!" mark before the unit powers down.



- **Step 3. Turn the Power on:**

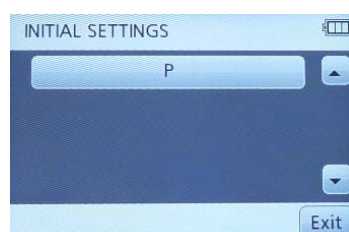
Turn the Power on.

- **Step 4. Display the INITIAL SETTING:**

Display "Clock Set" screen, and then move the [ZOOM LEVER] to "T" side, turn the power off.

The "INITIAL SETTINGS" menu is displayed.

There are two kinds of "INITIAL SETTINGS" menu form as follows:

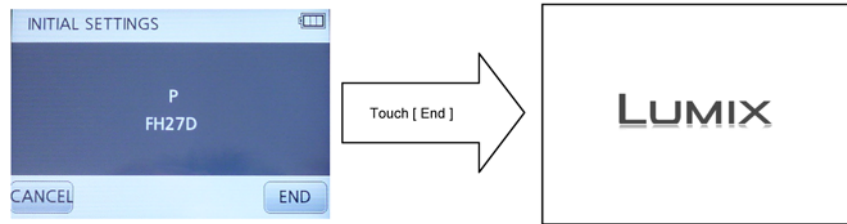


- **Step 5. Choose the model suffix in “INITIAL SETTINGS”:**

Touch the suffix [P] with touch panel.

- **Step 6. Set the model suffix in “INITIAL SETTINGS”:**

The only set area is displayed, and then press the “[End] of Cursor buttons” after confirmation.
(The unit is powered off automatically.)



- **Step 7. CONFIRMATION:**

Confirm the display of “PLEASE SET THE CLOCK” in concerned language when the unit is turned on again.
When the unit is connected to PC with USB cable, it is detected as removable media.

1) As for your reference, major default setting condition is as shown in the following table.

- **Default setting (After “INITIAL SETTINGS”)**

	MODEL	VIDEO OUTPUT	LANGUAGE	DATE	REMARKS
a)	DMC-FH27DP	NTSC	English	Month/Date/Year	

3 Replacement Parts List

- Note:
1. * Be sure to make your orders of replacement parts according to this list.
 2. **IMPORTANT SAFETY NOTICE**
Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS (uf), P=uuF.
 4. The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.
 5. Supply of CD-ROM, in accordance with license protection, is allowable as replacement parts only for customers who accidentally damaged or lost their own.

E.S.D. standards for Electrostatically Sensitive Devices, refer to PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES section.

Definition of Parts supplier:

1. Parts marked with [ENERGY] in the remarks column are supplied from Panasonic Corporation Energy Company.
2. Parts marked with [SPC] in the remarks column are supplied from AVC-CSC-SPC. Others are supplied from PAVCSG.

3.1. Frame & Casing Section

COMPARISON CHART:

The following table shows difference between DMC-FH27P and DMC-FH27DP.

Ref.No.	Original Part No.	New Part No.	Part Name	Pcs	Remarks
	DMC-FH27P	DMC-FH27DP			
1	VEP56126D or VEP56126F	VEP56126F	MAIN P.C.B.	1	
9	VMP9874	VMP0A34	FRAME PLATE	1	
32	VYK4P64	VYK5D56	LCD UNIT	1	

3.2. Packing Parts and Accessories Section

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200	VPF1372-A	CAMERA BAG	1	
\triangle 201	DE-A91BA/SX	BATTERY CHARGER	1	
\triangle 202	-----	BATTERY	1	
204	K1HY08YY0019	USB CABLE W/PLUG	1	
205	K1HY08YY0020	AV CABLE W/PLUG	1	
206	VFC4297-B	HAND STRAP	1	
207	VGQ0C14	TOUCH PEN	1	
208	VPF1378	BAG, POLYETHYLENE	1	
\triangle 211	VFF0731-S	CD-ROM (SOFT/INSTRUCTION BOOK)	1	[SPC] See"Notes"
212	VQC8055	O/I SOFTWARE(ENGLISH/CANADIAN FRENCH)	1	
\triangle 213	VQT3D74-2	BASIC O/I (ENGLISH/SPANISH)	1	
214	VPK4654	PACKING CASE	1	(-S)
214	VPK4660	PACKING CASE	1	(-K)
214	VPK4666	PACKING CASE	1	(-R)
215	VPN7239	CUSHION	1	
217	VQL2N46	UPC LABEL	1	(-S)
217	VQL2N47	UPC LABEL	1	(-K)
217	VQL2N48	UPC LABEL	1	(-R)

Packing Parts and Accessories Section

