

Panasonic®

Basic Operating Instructions Digital Camera

Model No. **DMC-FS40**
DMC-FS41
DMC-FS28
DMC-S5
DMC-S2

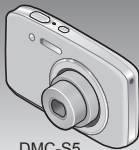
LUMIX



DMC-FS40
DMC-FS41



DMC-FS28



DMC-S5
DMC-S2



Before use, please read these instructions completely.

More detailed instructions on the operation of this camera are contained in "Operating Instructions for advanced features (PDF format)" in the supplied CD-ROM. Install it on your PC to read it.



Web Site: <http://www.panasonic-europe.com>

Model number suffix "EB" denotes UK model.

EB

VQT3X04
M1211KZ0

Dear Customer,

We would like to take this opportunity to thank you for purchasing this Panasonic Digital Camera. Please read these Operating Instructions carefully and keep them handy for future reference. Please note that the actual controls and components, menu items, etc. of your Digital Camera may look somewhat different from those shown in the illustrations in these Operating Instructions.

Carefully observe copyright laws.

- Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws. Even for the purpose of private use, recording of certain material may be restricted.

Information for Your Safety

WARNING:

To reduce the risk of fire, electric shock or product damage,

- Do not expose this unit to rain, moisture, dripping or splashing.
- Do not place objects filled with liquids, such as vases, on this unit.
- Use only the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

The socket outlet shall be installed near the equipment and shall be easily accessible.



■ Product identification marking

Product	Location
Digital camera	Bottom
Battery charger	Bottom

Caution for AC Mains Lead

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13- AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

■ IMPORTANT


The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

**THIS PLUG IS NOT WATERPROOF
KEEP DRY.**

■ Before use

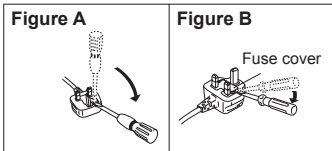
Remove the connector cover.

■ How to replace the fuse

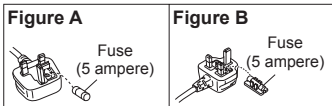
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



■ About the battery pack

CAUTION

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
 - When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
-
- Do not heat or expose to flame.
 - Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.

Warning

Risk of fire, explosion and burns. Do not disassemble, heat above 60 °C or incinerate.

■ About the battery charger

CAUTION!

To reduce the risk of fire, electric shock or product damage,

- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Do not place sources of naked flames, such as lighted candles, on this unit.

- The battery charger is in the standby condition when the AC power supply cord is connected. The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

■ Cautions for Use

- Do not use any other USB connection cables except the supplied one.
- Always use a genuine Panasonic AV cable (DMW-AVC1: optional).

Keep this unit as far away as possible from electromagnetic equipment (such as microwave ovens, TVs, video games etc.).

- If you use this unit on top of or near a TV, the pictures and/or sound on this unit may be disrupted by electromagnetic wave radiation.
- Do not use this unit near cell phones because doing so may result in noise adversely affecting the pictures and/or sound.
- Recorded data may be damaged, or pictures may be distorted, by strong magnetic fields created by speakers or large motors.
- Electromagnetic wave radiation generated by microprocessors may adversely affect this unit, disturbing the pictures and/or sound.
- If this unit is adversely affected by electromagnetic equipment and stops functioning properly, turn this unit off and remove the battery or disconnect AC adaptor (DMW-AC5E: for shop display purpose only). Then reinsert the battery or reconnect AC adaptor and turn this unit on.

Do not use this unit near radio transmitters or high-voltage lines.

- If you record near radio transmitters or high-voltage lines, the recorded pictures and/or sound may be adversely affected.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Cd

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- Please note that the actual controls and components, menu items, and other information for your digital camera may differ from those in the illustrations and screens provided in this manual. When operation or other information is more or less the same between models, DMC-FS40/DMC-FS41 are used as examples for the instructions provided in this manual.
- The operations, procedures, or functions that differ among models are indicated separately, together with the relevant model number.

(Example) **DMC-FS40**

DMC-S2

Before use

■ Camera handling







- Keep the camera away from excessive vibration, force, or pressure.
- The camera is not dust resistant, splash resistant, or waterproof. Avoid using the camera in places with excessive dust or sand, or where water can come into contact with the camera.

■ Condensation (When the lens or the LCD monitor is fogged up)

- Condensation may occur when the camera is exposed to sudden changes of temperature or humidity. Avoid these conditions, which may make the lens or LCD monitor dirty, cause mould, or damage the camera.
- If condensation does occur, turn off the camera and wait about two hours before using it. Once the camera adjusts to the surrounding temperature, foginess will clear naturally.

Standard accessories

Check that all the accessories are supplied before using the camera. Part numbers are as of January 2012.

<input type="checkbox"/> Battery pack DMW-BCK7E • Charge the battery before use. Battery pack is indicated as battery pack or battery in the text. 	<input type="checkbox"/> Hand strap VFC4297 
<input type="checkbox"/> Battery charger DE-A92A Battery charger is indicated as battery charger or charger in the text. 	<input type="checkbox"/> USB connection cable K1HY08YY0015 
<input type="checkbox"/> AC Mains Lead K2CT3YY00034 	<input type="checkbox"/> CD-ROM VFF0909 • Software: Use it to install the software on your PC. • Operating Instructions for advanced features 

- SD Memory Card, SDHC Memory Card and SDXC Memory Card are indicated as card in the text.
- Memory cards are optional. You can record or play back pictures on the built-in memory when you are not using a card.
- Consult the dealer or your nearest Service Centre if you lose the supplied accessories. (You can purchase the accessories separately.)
- Please dispose of all packaging appropriately.
- Keep small parts in a safe place out of the reach of children.

■ Optional Accessories

Battery Pack	DMW-BCK7
AV Cable	DMW-AVC1
Class 10 64 GB SDXC Memory Card	RP-SDU64GE1K
Class 10 32 GB SDHC Memory Card	RP-SDA32GE1K/RP-SDU32GE1K
Class 10 16 GB SDHC Memory Card	RP-SDA16GE1K/RP-SDU16GE1K
Class 10 8 GB SDHC Memory Card	RP-SDA08GE1K/RP-SDU08GE1K
Class 10 4 GB SDHC Memory Card	RP-SDU04GE1K
Class 6 32 GB SDHC Memory Card	RP-SDQ32GE1K
Class 6 16 GB SDHC Memory Card	RP-SDQ16GE1K
Class 6 8 GB SDHC Memory Card	RP-SDQ08GE1K
Class 6 4 GB SDHC Memory Card	RP-SDQ04GE1K
Class 4 16 GB SDHC Memory Card	RP-SDN16GE1A
Class 4 8 GB SDHC Memory Card	RP-SDN08GE1A
Class 4 4 GB SDHC Memory Card	RP-SDN04GE1A
Class 4 2 GB SD Memory Card	RP-SDN02GE1A

- Some optional accessories may not be available in some countries.

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0844 844 3899
- For customers within Ireland: 01 289 8333
- For further support on your product, please visit our website:
www.panasonic.co.uk

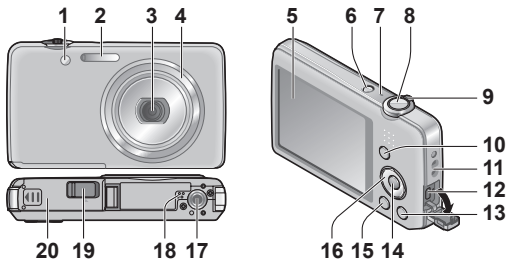
Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday–Thursday 9:00 a.m.–5:30 p.m., Friday 9:30 a.m.–5:30 p.m. (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

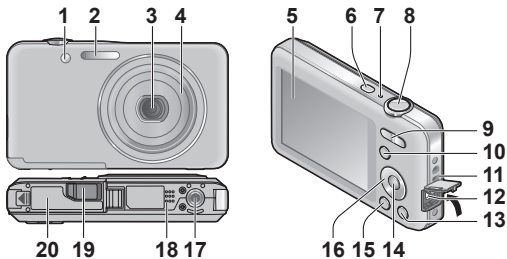
Names and Functions of Main Parts

DMC-FS40

DMC-FS41

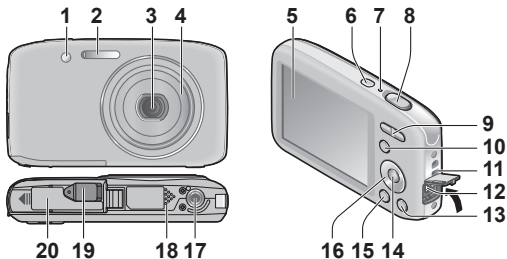




DMC-FS28



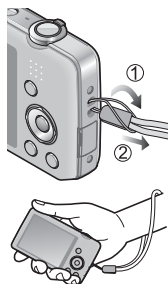
DMC-S5

DMC-S2



- 1 Self-timer indicator/AF Assist Lamp
- 2 Flash
- 3 Lens
- 4 Lens barrel
- 5 LCD monitor
- 6 Power button
- 7 Microphone
- 8 Shutter button
- 9 **DMC-FS40** **DMC-FS41**
Zoom lever
DMC-FS28 **DMC-S5** **DMC-S2**
Zoom button
- 10 [MODE] button
- 11 Hand strap eyelet
- 12 [AV OUT/DIGITAL] socket
- 13  /  (Delete/Return) button
- 14 [MENU/SET] button
- 15 Playback button
- 16 Cursor button
- 17 Tripod receptacle
- 18 Speaker
- 19 DC coupler cover

We recommend using the supplied hand strap to avoid dropping the camera.



For shop display purpose only

- When using an AC adaptor, ensure that the Panasonic DC coupler (DMW-DCC10: for shop display purpose only) and AC adaptor (DMW-AC5E: for shop display purpose only) are used.
- Always use a genuine Panasonic AC adaptor (DMW-AC5E: for shop display purpose only).
- When using an AC adaptor, use the AC Mains Lead supplied with the AC adaptor.

20 Card/Battery door

- The illustrations and screens in this manual may differ from the actual product.
- Do not block the microphone when recording motion pictures.
- Some tripods or unipods, and some methods of holding the camera may block the speaker, making it difficult to hear the beep, etc.

Charging the battery

1 Insert the battery terminals and attach the battery to the charger

Ensure [LUMIX] faces outwards.

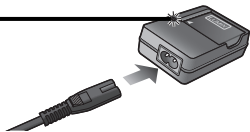


2 Connect the charger to the electrical outlet

Charging light ([CHARGE])

On: Charging in progress
(approx. 120 min. if fully depleted)

Off: Charging complete



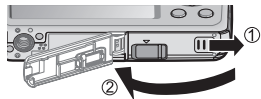
■ About batteries that you can use with this unit

The battery that can be used with this unit is DMW-BCK7E.

- Use the dedicated charger and battery.
- The battery is not charged when the camera is shipped. Charge the battery and set the clock before use.
- Charge the battery with the charger indoors (10 °C to 30 °C (50 °F to 86 °F)).

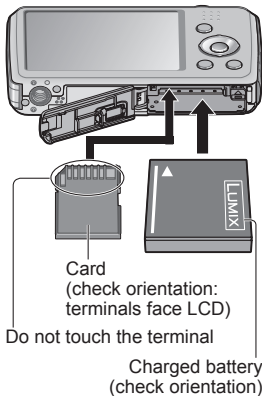
Inserting and removing the card (optional)/ the battery

- 1 Turn off the power and slide the card/battery door out (①) before opening the door (②) as illustrated



- 2 Insert the battery and card, making sure that their orientation is correct

- Battery: Insert all the way firmly until a locking sound is heard, and check that the lever is hooked over the battery.
- Card: Insert all the way firmly until it clicks.



■ To remove

• To remove battery:

Move lever in direction of arrow.

DMC-FS40 DMC-FS41 DMC-FS28 DMC-S5
DMC-S2



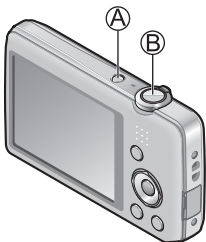
• To remove card:

Press down in centre.



- Always use genuine Panasonic batteries (DMW-BCK7E).
- If you use other batteries, we cannot guarantee the quality of this product.
- Keep the Memory Card out of reach of children to prevent swallowing.

Sequence of operations



1 Press the Power button (A)

The clock is not set when the camera is shipped. Set the date and time before using the camera.




2 Press the shutter button (B) and take pictures

- ① Press halfway
(press lightly to focus)
- ② Press fully
(press the button all the way to record)



■ Selecting the Recording Mode


Press [MODE] button to select the Recording Mode.

-  Taking pictures with automatic settings.
-  Take pictures with your own settings.
- SCN Take pictures according to scene.
-  Take motion pictures.




■ Setting the menu

Press [MENU/SET] to display the menu screen to change the recording function, camera settings, and other settings.

■ Viewing your pictures

- ① Press the Playback button
- ② Press  to select the picture

■ Deleting pictures

- ① Press  /  button to delete the displayed picture
- ② Press  to select [Yes] and then press [MENU/SET]

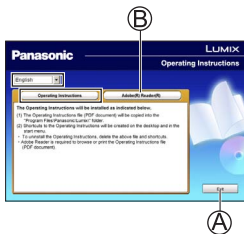
● In this manual, the button that is used is shaded.

Reading the Operating Instructions (PDF format)

More detailed instructions on the operation of this camera are contained in “Operating Instructions for advanced features (PDF format)” in the supplied CD-ROM. Install it on your PC to read it.

■ For Windows

- 1** Turn the PC on and insert the CD-ROM containing the Operating Instructions (supplied)
- 2** Click the “Operating Instructions”
- 3** Select the desired language and then click “Operating Instructions” to install
Ⓐ To return to the install menu.
- 4** Double click the “Operating Instructions” shortcut icon on the desktop



■ When the Operating Instructions (PDF format) will not open

You will need Adobe Acrobat Reader 5.0 or later or Adobe Reader 7.0 or later to browse or print the Operating Instructions (PDF format). Insert the CD-ROM containing the Operating Instructions (supplied), click Ⓑ and then follow the messages on the screen to install.
Compatible OS: Windows XP SP3 / Windows Vista SP2 / Windows 7

- You can download and install a version of Adobe Reader that you can use with your OS from the following Web Site.
<http://get.adobe.com/reader/otherversions/>

Installing supplied software (PHOTOfunSTUDIO)

This software allows you to acquire pictures to the PC, and also categorise these acquired pictures by their recording date or the model name of the camera used.

- Before inserting the CD-ROM, close all running applications.

1 Check the environment of your PC

Operating environment of PHOTOfunSTUDIO 8.0 LE

OS	Windows XP (32 bit) SP3 Windows Vista (32 bit) SP2 Windows 7 (32 bit/64 bit) and SP1	
CPU	Windows XP	Pentium III 500 MHz or higher
	Windows Vista	800 MHz or higher
	Windows 7	1 GHz or higher
Display	1024 × 768 pixels or more (1920 × 1080 pixels or more recommended)	
RAM	Windows XP	512 MB or more
	Windows Vista	
	Windows 7	1 GB or more (32 bit) 2 GB or more (64 bit)
Free hard disk space	450 MB or more for installing software	

- Refer to the Operating Instructions of “PHOTOfunSTUDIO” (PDF) for further information about the operating environment.

2 Insert the CD-ROM with the supplied software

When you insert the supplied CD-ROM, the install menu will start.

3 Click on the [Applications] on the install menu

4 Click on the [Recommended Installation]

- Proceed with installation according to messages appearing on the screen.
- The software compatible with your PC will be installed.
 - PHOTOfunSTUDIO (Windows XP/Vista/7)
 - LoiLoScope 30 day full trial version (Windows XP/Vista/7)
(This will only install a shortcut to the trial version download site.)
- PHOTOfunSTUDIO is not compatible with Mac.

Specifications

Digital Camera: Information for your safety

Power Source	DC 5.1 V
Power Consumption	When recording: DMC-FS40 DMC-FS41 DMC-FS28 DMC-S2 1.0 W DMC-S5 1.1 W When playing back: 0.6 W
Camera effective pixels	DMC-FS40 DMC-FS41 DMC-FS28 DMC-S2 14,100,000 pixels DMC-S5 16,100,000 pixels
Image sensor	DMC-FS40 DMC-FS41 DMC-FS28 DMC-S2 1/2.33" CCD, total pixel number 14,500,000 pixels Primary colour filter DMC-S5 1/2.33" CCD, total pixel number 16,600,000 pixels Primary colour filter
Lens	DMC-FS40 DMC-FS41 Optical 5 x zoom f=4.3 mm to 21.5 mm (35 mm film camera equivalent: 24 mm to 120 mm) / F2.5 (Max. W) to F6.4 (Max. T) DMC-FS28 DMC-S5 DMC-S2 Optical 4 x zoom f=5.0 mm to 20.0 mm (35 mm film camera equivalent: 28 mm to 112 mm) / F3.1 (Max. W) to F6.5 (Max. T)
Image Stabiliser	Optical method
Focus range	
Intelligent Auto / Normal / Motion Picture	5 cm (0.16 feet) (Wide) / 1 m (3.3 feet) (Tele) to ∞
Scene Mode	There may be difference in above settings.

Specifications

Shutter system	Electronic shutter + Mechanical shutter
Shutter speed	8 seconds to 1/1600th of a second
Exposure (AE)	AUTO (Programme AE)
Metering Mode	Multi metering
LCD monitor	2.7" TFT LCD (4:3) (Approx. 230,400 dots) (field of view ratio about 100%)
Microphone / Speaker	Monaural
Recording media	Built-in Memory (Approx. 70 MB) / SD Memory Card / SDHC Memory Card / SDXC Memory Card
Recording file format	
Still picture	JPEG (based on Design rule for Camera File system, based on Exif 2.3 standard)
Motion pictures	QuickTime Motion JPEG (motion pictures with audio)
Interface	
Digital	USB 2.0 (High Speed) Data from the PC can not be written to the camera using the USB connection cable.
Analogue video	NTSC / PAL Composite (Switched by menu)
Audio	Audio line output (Monaural)
Terminal	AV OUT / DIGITAL: Dedicated jack (8 pin)

Dimensions	DMC-FS40 DMC-FS41 Approx. 96.4 mm (W) x 55.5 mm (H) x 19.9 mm (D) [3.8" (W) x 2.2" (H) x 0.78" (D)] (excluding the projection part)
	DMC-FS28 Approx. 97.6 mm (W) x 56.2 mm (H) x 20.8 mm (D) [3.8" (W) x 2.2" (H) x 0.82" (D)] (excluding the projection part)
	DMC-S5 DMC-S2 Approx. 97.9 mm (W) x 56.6 mm (H) x 20.6 mm (D) [3.9" (W) x 2.2" (H) x 0.81" (D)] (excluding the projection part)
Mass	DMC-FS40 DMC-FS41 With card and battery: Approx. 119 g (0.26 lb) Excluding card and battery: Approx. 103 g (0.23 lb)
	DMC-FS28 With card and battery: Approx. 113 g (0.25 lb) Excluding card and battery: Approx. 96 g (0.22 lb)
	DMC-S5 DMC-S2 With card and battery: Approx. 112 g (0.25 lb) Excluding card and battery: Approx. 95 g (0.21 lb)
Operating temperature	0 °C to 40 °C (32 °F to 104 °F) (Operating humidity: 10%RH to 80%RH)

Battery charger

(Panasonic DE-A92A): Information for your safety

Input	AC ~ 110 V to 240 V, 50/60 Hz, 0.2 A
Output	DC --- 4.2 V, 0.43 A

Battery pack (lithium-ion)

(Panasonic DMW-BCK7E): Information for your safety

Voltage / capacity	3.6 V / 680 mAh
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- Mac and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.
- Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- This product uses “DynaFont” from DynaComware Corporation. DynaFont is a registered trademark of DynaComware Taiwan Inc.
- Other names, company names, and product names printed in these instructions are trademarks or registered trademarks of the companies concerned.



Pursuant to at the directive 2004/108/EC, article 9(2)

Panasonic Testing Centre

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Panasonic Corporation

Web Site: <http://panasonic.net>

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