

Canon

EOS1N / EOS1N RS

SCF Instructions

ENGLISH EDITION

© CANON INC., 1996
CY8-1200-162

Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

Corrections

This manual could include typographical errors or technical inaccuracies due to improvements or changes in the products. When changes occur in applicable products or in the content of this manual, Canon will release service manual report as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon may issue new editions of this manual.

The following paragraph does not apply to any countries where such provisions are inconsistent with local law.

Trademarks

The product names and company names described in this manual are the registered trademarks of the individual companies.

Copyright

This manual is copyrighted with all rights reserved. Under the copyright laws, this manual may not be copied, reproduced or translated into another language, in whole or in part, without the written consent of Canon Inc..

Copyright © 1996 by Canon Inc.

CANON INC.

Camera Quality Assurance Division

30-2 Shimomaruko 3-Chome, Ohta-ku,

Tokyo 146, Japan

First published July, 1996

Publisher: Osamu Ohkubo (Photo Products Quality Assurance Div.)

Editor (Japanese): Tatsuo Yashiro (Camera Technical Support Department)

Editor (English): Harley Ferguson (Camera Technical Support Department)

Production: Camera Technical Support Department

This manual was produced on an Apple Macintosh II ci personal computer and Apple LaserWriter II NTX-J laser beam printer; block copies were printed on Varityper 5300 with 4000-J RIP.

A Canon mo-5001S Magneto-Optical Storage Subsystem with mo-502M Magneto-Optical Storage Disk Cartridge and mo-IF2 interface kit were used for storing large volumes of page layout and graphic data for this manual.

Word processing was done on Microsoft Word 5.1.

All graphics were produced with Adobe Illustrator 5.0J and 5.5; And Adobe Photoshop 3.0J and 2.5.1. All English documents and all page layouts were created with QuarkXPress 3.31.

Part 1

General Information

SPECIAL CUSTOM FUNCTION (SCF)

Introduced in fall 1994, the EOS-1N greatly contributed to Canon's larger share in the professional SLR market. New users have increased and feedback has been received.

To enable the EOS-1N to satisfy the users' diverse needs, it was equipped with fourteen Custom Functions. However, they still do not meet everyone's wants.

We will therefore provide an additional 19 Special Custom Functions for pro users based on the suggestions received.

1.1 APPLICABLE CAMERAS

EOS-1N, EOS-1N RS

1.2 APPLICABLE BODIES

EOS-1N: ROM #5, From Lot No. OJ1216 (the last two digits are 16 or greater)

EOS-1N RS: ROM #3, From Lot No. OK0405 (the last two digits are 05 or greater)
(* The lot No. is printed inside the film cartridge compartment.)

1.3 INSTALLATION PROCEDURE

The personal computer and HS-I/F Unit are used along with a special software program. The Japanese language software program is for NEC98 Series computers and the English version is for IBM PC compatibles running MS-DOS3.3b or newer operating systems. For details refer to the SCF Repair Information section of this manual.

SCF INFORMATION

SPECIAL CUSTOM FUNCTIONS FOR EOS-1N AND EOS-1N RS

No.	Description	1N	RS
01	Prevents shutter release if film has not been loaded.	✓	x
02	Registers the user's desired AF, AE, and film transport settings.	✓	✓
03	Deactivates continued metering after the shutter button is released.	✓	✓
04	Enables the focusing point to be switched between center and camera-selected focusing points.	✓	✓
05	Lights the focusing point while the shutter button is pressed halfway.	✓	✓
06	Custom Function 11-2: Pressing the focusing point selector switches the camera to automatic focusing point selection.	✓	✓
07	Custom Function 11-2: Turning the Quick Control Dial sets the automatic focusing point selection mode.	✓	x
08	Enables continuous shooting to continue even after the three AEB shots are taken.	✓	✓
09	Limits the number of AEB exposures to 2 frames.	✓	✓
10	When the self-timer and mirror lockup have been set for AEB, the three bracketed shots can be exposed continuously by pressing the shutter button only once.	✓	—
11	After the set number of multiple exposures is taken, the multiple exposure setting is not canceled.	✓	✓
12	After Exposure, film advances only after shutter button is released	✓	✓
13	When the number of remaining exposures indicated in the viewfinder is fewer than nine, the number displayed blinks.	✓	✓
14	The focusing points blink while the film rewinds.	✓	✓
15	During film rewind, high-speed rewind or silent rewind can be set.	✓	✓
16	Enables high-speed sync (FP flash) and manual exposure with Speedlite 380EX	✓	x
17	For aperture-priority AE with flash, a user-fixed sync speed can be set.	✓	x
18	Enables AEB in the EOS-1N RS's RS mode.	—	✓
19	Changes the EOS-1N RS's slow shutter speed for continuous shooting to the desired speed.	—	✓

SCF-NO.01: PREVENTS SHUTTER RELEASE IF FILM HAS NOT BEEN LOADED

DESCRIPTION:

If the camera back is closed and film has not been loaded, pressing the shutter button does not release the shutter.

BENEFITS:

This special custom function prevents the user from thinking that the camera has film when it does not.

APPLICABLE CAMERA:

EOS-1N

REMARKS:

- Except for the shutter button, all other camera operations remain normal.
- When the camera is open, the camera operation is normal. The shutter button can be pressed.

SCF-NO. 02: REGISTERS THE USER'S DESIRED AF, AE, AND FILM TRANSPORT SETTINGS

DESCRIPTION:

The user can register the desired settings for the AF mode, AE mode, and Film Transport mode instead of the default modes chosen by Canon. The default settings for Custom Functions (normally "0") can also be changed to those desired by the user. When the Clear button is pressed in the Custom Function Set mode the applicable Custom Functions are set to the user's settings.

BENEFITS:

The camera can be set to the desired Custom Function settings by a single touch of a button.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- If the film transport mode has been set to continuous shooting and the Clear button is pressed, high-speed continuous shooting will be set with the Power Drive Booster attached. If it is not attached or if BP-E1 is attached, continuous shooting will be set.
- Pressing the Clear button cancels all the exposure compensation, flash exposure compensation, multiple exposure, and AEB settings which were set by the camera. It will also cancel all the flash exposure compensation, multi-flash, manual flash, sync timing settings, etc., if a Speedlite has been attached. Autoflash exposure mode will be set instead.
- When the Clear button is active, the LCD panel will not display the Custom Function that was set. When the Clear button is inactive, the set Custom Function's dot will be displayed.

SCF-NO. 03: DEACTIVATES CONTINUED METERING AFTER SHUTTER BUTTON IS RELEASED

DESCRIPTION:

When the shutter button is pressed halfway and released, the metering turns off immediately instead of remaining active for 6 sec. This also applies after a picture is taken. (The metering does not remain active for 2 sec. as it normally does.)

- * This is the same function as EOS 5/A2E's CF-5.

BENEFITS:

Battery power is conserved since the metering turns off immediately.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- Metering turns off immediately after the depth-of-field preview button, AE lock button, or focusing point selector (with Custom Function No. 11's 1 or 2 selected) is released.
- During DEP mode, the metering stays active as usual and does not turn off immediately.
- The AEB setting's dot display is displayed only while the shutter is pressed halfway.

SCF-NO. 04: ENABLES THE FOCUSING POINT TO BE SWITCHED BETWEEN CENTER AND CAMERA-SELECTED FOCUSING POINTS

DESCRIPTION:

While the shutter button is pressed halfway, pressing the focusing point selector toggles between the camera-selected focusing point and the center focusing point.

BENEFITS:

The active focusing point can be switched on the fly without interrupting the picture-taking process.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- When the focusing point is switched to the center one, the user can then switch the focusing point to any other one.

SCF-NO. 05: FOCUSING POINT LIGHTS WHILE SHUTTER BUTTON IS PRESSED HALFWAY

DESCRIPTION:

While the shutter button is pressed halfway, the focusing point lights.

- * The focusing point turns off when the shutter is released.

Note: This SCF requires manual exposure. If the customer requests it, be sure to mention this requirement beforehand.

- Reason for requiring manual exposure:

If the subject brightness is EV 12 or higher, a lit focusing point will not affect the metering. However, if it is below EV 12, the lit focusing point will greatly affect the metering, and an accurate exposure may not be obtained. See Remarks below.

BENEFITS:

You can always see which focusing point is active.

APPLICABLE CAMERA:

EOS-1N; EOS-1N RS

REMARKS:

1. Conditions for a lit focusing point during AF
 - When the focusing point is camera-selected in the One-Shot AF mode, the camera-selected focusing point lights.
 - When the focusing point is camera-selected in the Servo AF mode, the camera-selected focusing point lights.
 - If the focusing point is camera-selected and focus cannot be achieved, the focusing point does not light.
 - If the focusing point is user-selected, the user-selected focusing point lights.
2. Conditions for a lit focusing point when focus is achieved manually
 - When the focusing point is user-selected, the user-selected focusing point lights.
 - When automatic focusing point is selected, all the focusing points which achieve focus light.
3. Other conditions
 - If Custom Function No. 10 is set to 1, no focusing point will light.
 - If Custom Function No. 4 is set to 0, the focusing point lights only while the shutter button is pressed halfway.
 - If Custom Function No. 4 is set to 1, the focusing point lights while the AE lock button is on.
 - If Custom Function No. 4 is set to 2, the focusing point which will lock the focus lights while the shutter button is pressed halfway.
 - If the focusing point is camera-selected and the focus is locked, the focusing point does not light.
4. How the lit focusing point affects the exposure
 - EV 12 to 10: 1/4 stop underexposure
 - EV 10 to 5: 1/2 stop underexposure
 - EV 5 or below: One stop underexposure or more

SCF-NO. 06: IN CUSTOM FUNCTION 11-2 PRESSING FOCUSING POINT SELECTOR SWITCHES CAMERA TO AUTOMATIC FOCUSING POINT

DESCRIPTION:

When Custom Function No. 11- 2 (AF focusing point user-selected with Quick Control Dial), pressing the focusing point selector while the shutter button is pressed halfway will switch the focusing point selection mode to automatic.

BENEFITS:

This Special Custom Function was provided for the 1994 World Cup USA photographers to meet the following conditions:

- At medium distances, the user-selected focusing point can track the player, but when the player suddenly comes near, the focusing point cannot track him. In such cases, it is better to switch to the automatic focusing point selection mode. Since the player fills the frame at close distances, the camera-selected focusing point can achieve focus.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- This function works in both the One-Shot AF and AI Servo AF modes.
- Once the camera is switched to the automatic focusing point selection mode, pressing the focusing point selector will not change the mode back to the manual focusing point selection mode. To enable manual focusing point selection, this Custom Function must be set to the default first.
- When automatic focusing point selection is set, the five focusing points will flash.
- During continuous shooting in the automatic focusing point selection mode, the focusing point does not light at all.

SCF-NO. 07: IN CUSTOM FUNCTION 11-2 TURNING THE QUICK CONTROL DIAL SETS THE AUTOMATIC FOCUSING POINT SELECTION MODE

DESCRIPTION:

As with the Main Dial, the focusing point selection mode can be toggled (between manual and automatic) with the Quick Control Dial.

BENEFITS:

This special custom function satisfies users who want this function. Recommended mainly for use with the One-Shot AF mode.

APPLICABLE CAMERA:

EOS-1N

REMARKS:

- As usual, when either focusing point selection mode is set, all the focusing points flash for 60 ms.
- The focusing point can be changed during continuous shooting in the AI Servo AF mode.
- There is no change in how the focusing point flashes during continuous shooting in the AI Servo AF mode:
 - * In the manual focusing point selection mode: The focusing point flashes for each exposure.
 - * In the automatic focusing point selection mode: The focusing point does not flash at all.

SCF-NO. 08: ENABLES CONTINUOUS SHOOTING EVEN AFTER THREE AEB SHOTS ARE TAKEN

DESCRIPTION:

Normally, when AEB and continuous shooting are set, holding down the shutter button shoots the three AEB frames successively and then shooting stops. This Special Custom Function enables continuous AEB shooting to continue even after the first three AEB shots are taken. The exposure level is metered again for each set of AEB shots.

BENEFITS:

This special custom function is effective for moving subjects or when the stopping of continuous shooting would be undesirable.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- Custom Function No. 9 can still be used to change the bracketing sequence or to set automatic AEB cancellation or to enable/disable the external setting of AEB.
- The display remains the same.
- If Custom Function No. 12-1 is set for mirror lockup, single-frame shooting will be set. Doing so will override this Special Custom Function and render it useless.
- If the self-timer is used with this Special Custom Function, the self-timer operation and subsequent AEB exposures will keep repeating.

SCF-NO. 09: LIMITS AEB EXPOSURE TO TWO FRAMES

DESCRIPTION:

Automatic Exposure Bracketing (AEB) is terminated after two shots.

BENEFITS:

This special custom function satisfies users who only want the normal exposure and one bracketed exposure.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- The normal Custom Function No. 9 can still be used to change the bracketing sequence or to set automatic AEB cancellation or to enable/disable the external setting of AEB.
- As usual, the display will show the three-dot display. The third dot is displayed but has no meaning.

SCF-NO. 10: WHEN SELF-TIMER AND MIRROR LOCK ARE SET FOR AEB, ONE PRESS OF THE SHUTTER BUTTON EXPOSES ALL THREE EXPOSURES

DESCRIPTION:

Normally, when the self-timer and mirror lockup (Custom Function No. 12 set to 1) have been set, you have to press the shutter button three times to expose the three AEB shots. As with the EOS 5/A2E, this Special Custom Function enables the user to press the shutter button only once to take the three shots continuously. The following is repeated three times: mirror lockup → self-timer countdown → exposure → film advance.

BENEFITS:

The operation is less troublesome.

APPLICABLE CAMERA:

EOS-1N

REMARKS:

None.

SCF-NO. 11: MULTIPLE EXPOSURE SETTING IS NOT CANCELED AFTER SET NUMBER OF MULTIPLE EXPOSURES ARE TAKEN

DESCRIPTION:

After the set number of multiple exposures are taken, the film advances and stops. The set number of multiple exposures remain set for the next frame. To cancel this, follow the normal procedure as follows:

1. Open the palm door and press the Clear button.
2. Set the number of multiple exposures to 1.
- This Special Custom Function is the same as the EOS 5/A2E's Custom Function No. 8 and EOS RT's Custom Function No. 13.

BENEFITS:

This special custom function makes it easier when the user wants to take another multiple-exposure shot.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- The frame counter is not displayed.
 - * The frame number can be checked by turning off the main switch and checking the LCD panel.
- When the shooting mode selector and metering mode selector are pressed to set multiple exposures, the remaining number of multiple exposures will be set again.
- The set number of multiple exposures will be canceled if film is loaded, film is rewound, or AL operation is executed.
- With Command Back E1 attached, the interval timer set, the number of exposures set, and the number of multiple exposures set; the last exposure (of the set number of multiple exposures) is not included as a multiple exposure.
 - * After the first exposure operation, the camera will stop and standby for the next release signal. The remaining number of times for exposure must be executed by pressing the shutter button manually.

SCF-NO. 12: AFTER EXPOSURE, FILM ADVANCES ONLY AFTER SHUTTER BUTTON IS RELEASED

DESCRIPTION:

After a picture is taken during single-frame shooting, the film advances only after the shutter button is off.

- This is the same function as the EOS RT's Custom Function No. 11.

BENEFITS:

Normally, the film advances immediately after the picture is taken. Thus, there is film advance noise right after the picture is taken. This noise may be annoying to the subject. For example, when a picture is taken of a golf swing at the moment of impact. With this Special Custom Function, the film advance noise timing can be controlled.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- In the EOS-1N RS's RS mode, the shutter curtains make a sound after the exposure is completed.
- The Development Center calls this the "golf mode" because it allows quiet operation so the golfer is not distracted.

SCF-NO. 13: WHEN THE NUMBER OF REMAINING EXPOSURES INDICATED IN THE VIEWFINDER IS FEWER THAN 9, THE NUMBER BLINKS

DESCRIPTION:

When the number of remaining exposures indicated in the viewfinder is fewer than 9, the number blinks at 2 Hz.

BENEFITS:

This gives a stronger warning to indicate that there are only a few exposures left.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

None.

SCF-NO. 14 THE FOCUSING POINTS BLINK WHILE THE FILM REWINDS

DESCRIPTION:

To indicate that the film is rewinding, the viewfinder's focusing points repeatedly blink sequentially during film rewind to simulate the film rewinding. .

1) □□□□□ → 2) □□□□ → 3) □□□ → 4) □□ → 5) □ → 6) All off. .

BENEFITS:

The user can detect the film rewind operation while looking through the viewfinder. It is effective when the environment is noisy and the film rewind sound cannot be heard.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

- Power consumption during film rewind increases slightly.

SCF-NO. 15: DURING FILM REWIND, HIGH-SPEED REWIND OR SILENT REWIND CAN BE SET

DESCRIPTION:

During film rewind, pressing the film rewind button toggles between high-speed rewind and silent rewind.

BENEFITS:

Even after film rewind starts, the user can set either high-speed rewind or silent rewind.

APPLICABLE CAMERA:

EOS-1N, EOS-1N RS

REMARKS:

None.

SCF-NO. 16: ENABLES HIGH-SPEED SYNC (FP FLASH) AND MANUAL EXPOSURE WITH SPEEDLITE 380EX

DESCRIPTION:

This is for the 380EX's high-speed sync (FP flash) feature. Manual flash exposure is required. To obtain a suitable fill-flash exposure, test shots will be required.

- The FP flash Guide No. for each shutter speed is shown on the separate table.
- The FP flash duration is the exposure time plus 4.3 ms.

BENEFITS:

When the EOS-1N is used with the 380EX, manual high-speed sync will be possible.

APPLICABLE CAMERA:

EOS-1N

REMARKS:

- This Special Custom Function requires manual flash exposure. Make sure the customer understands the following conditions before installing this Special Custom Function.

OPERATION:

- Obtaining a catchlight in the subject's eyes with fill-flash
 1. Focus and compose the shot.
 2. Select any exposure mode and set the exposure for the background.
 - * If the 380EX is used, the camera will use averaged metering.
 - * In the P mode, the shutter speed and aperture will be determined according to the averaged metering and program AE lines. (The TTL program line for TTL autofocus is not used.)
 3. The Guide No., aperture, and subject distance for the shutter speed determine the flash effect accordingly.
 - * Test shots will be necessary to see the results of the flash.
 - * Flash exposure compensation to obtain underexposure can be executed with the camera. However, it cannot be done to obtain overexposure.
 4. Take the picture.
- Normal flash exposure
 1. Set the manual exposure mode.
 2. Set the sync speed.
 3. Focus the subject and check the focusing distance in meters.
 4. Refer to the table below to obtain the manual FP flash Guide No. for the sync speed that has been set.
 5. Divide the Guide No. obtained in step 4 by the focusing distance in meters. This will be the aperture setting.
 6. Take the picture.

FP Flash Guide No. for Sync Speeds (ISO 100, in meters)

Focal Length	24	28	35	50	70	105
≤1/125	10.5	11.5	14.0	15.5	16.5	19.0
1/160	10.5	11.5	14.0	15.5	16.5	19.0
1/200	10.5	11.5	14.0	15.5	16.5	19.0
1/250	10.5	11.5	14.0	15.5	16.5	19.0
1/320	9.37	10.26	12.49	13.83	14.72	16.95
1/400	8.35	9.15	11.14	12.33	13.13	15.12
1/500	7.42	8.13	9.90	10.96	11.67	13.44
1/640	6.62	7.25	8.83	9.78	10.41	12.0
1/800	5.90	6.47	7.88	8.72	9.28	10.69
1/1000	5.25	5.75	7.00	7.75	8.25	9.50
1/1250	4.68	5.13	6.24	6.91	7.36	8.47
1/1600	4.18	4.57	5.57	6.17	6.56	7.56
1/2000	3.71	4.07	4.95	5.48	5.83	6.72
1/2500	3.31	3.63	4.42	4.89	5.20	5.99
1/3200	2.95	3.24	3.94	4.36	4.64	5.35
1/4000	2.63	2.88	3.5	3.88	4.13	4.75
1/5000	2.35	2.57	3.12	3.46	3.68	4.24
1/6400	2.09	2.29	2.78	3.09	3.29	3.78
1/8000	1.86	2.00	2.47	2.74	2.92	3.36

- * The FP flash Guide No. for 1/250 sec. is set to the normal Guide No. minus two stops. Thereafter, it decreases as the sync speed increases, as shown in the table.
- * When the camera is used to set flash exposure compensation, the Guide No. increases or decreases according to the camera's compensation, as indicated by the ✓ in the table below. The ✕ indicates that flash exposure compensation for an overexposure cannot be set.

	Exposure Compensation Amount						
TV	-3	-2	-1	0	+1	+2	+3
≤1/125	✓	✓	✓	✓	✓	✓	✕
1/250	✓	✓	✓	✓	✕	✕	✕
1/500	✓	✓	✓	✓	✕	✕	✕
1/1000	✓	✓	✓	✓	✕	✕	✕
1/2000	✓	✓	✓	✓	✕	✕	✕
1/4000	✓	✓	✓	✓	✕	✕	✕

* Although the change occurs in 1/3 stops, this table has been abbreviated to show the change only at full stops.

Note: Flash exposure compensation with the camera is not possible with Speedlite 220EX.

SCF-NO. 17: IN APERTURE-PRIORITY AE WITH FLASH, A USER-FIXED SYNC SPEED CAN BE SET

DESCRIPTION:

When aperture-priority AE is used with flash, the sync speed is fixed at a slow speed. The user can register this fixed speed in the camera.

- The registered, fixed sync speed must be slower (in 1/3 steps) than the X-sync speed.
- This is the same function as the EOS 5/A2E, EOS 10S, and EOS RT's Custom Function No. 9.

However with these cameras, the sync speed is fixed by the manufacturer. With the EOS-1N, this Special Custom Function allows the user to set the fixed sync speed.

BENEFITS:

When aperture-priority AE is used with flash, a slow sync speed is set automatically. Handheld indoor shots may then be blurred due to camera shake. This Special Custom Function prevents such a slow sync speed to be set in such situations, preventing camera shake.

APPLICABLE CAMERA:

EOS-1N

REMARKS:

- There is no alert to indicate that the fixed sync speed is being used.

SCF-NO. 18: ENABLES AEB IN RS MODE WITH THE EOS-1N RS

DESCRIPTION:

AEB is enabled in the RS mode when the following two conditions are met:

1. Aperture-priority AE is set.
2. Manual exposure is used (Custom Function No. 5 set to 0).

BENEFITS:

This special custom function enables continuous AEB shooting up to 10 fps in the RS mode.

APPLICABLE CAMERA:

EOS-1N RS

REMARKS:

- This Special Custom Function requires a fixed aperture and a variable shutter speed to control the exposure level.
- The continuous shooting speed varies depending on the shutter speed set automatically.
- If the above two conditions are not met, the camera will revert to normal operation and AEB cannot be set.

SCF-NO. 19: SETS THE EOS-1N RS "CONTINUOUS L" FRAME RATE TO THE DESIRED SPEED

DESCRIPTION:

The "Continuous L" shooting speed can be set to the users requested speed in a range from 1.5 fps to 5 fps in 1/2 steps instead of a fixed 3 fps.

BENEFITS:

Instead of using the standard 3 fps continuous shooting speed, the user can set the desired continuous shooting speed.

APPLICABLE CAMERA:

EOS-1N RS

REMARKS:

- The user can set the desired continuous shooting speed for both the A mode and R mode.
- This Special Custom Function is geared for slow shooting. If a high shooting speed is used, autofocusing may not be able to keep up. Therefore for shooting speeds 3 fps and faster, manual focusing is recommended.

Part 2

Installation Information

2. SCF INSTALLATION INFORMATION

ACTIVE SCF NUMBER CHANGING

Resetting the active SCF number requires the following equipment and procedures.

1. Running the SCF software.
This software operates with EOS-1N ROM Version 5 or later; and with EOS-1N RS, ROM version 3 and later.
2. Attaching the Camera.
3. Selecting the SCF number from the menu.
(SCF00 indicates that no special custom function is set.)
4. Removing the camera.
5. Attaching the SCF seal.
The seal is applied under the pressure plate.)
6. Quitting the SCF software.

SCF IDENTIFICATION AND REPAIR PRECAUTIONS

1. SCF SEAL

The SCF seal is attached so the active SCF can be confirmed quickly and easily.

The active SCF is established by changing the EEPROM data within the MPU. There is no physical evidence of the change. Close checking of the operation will turn up differences from normal operation, but determining exactly which SCF is active is difficult from these differences alone.

There is also a possibility that during repair a previously set SCF will be cleared. This is why a quick identification method is necessary. This method is the green SCF seal with the active SCF written on it.

2. SCF SEAL INSTALLATION

If the active SCF is established or changed, print the SCF number clearly on a round seal of about 8mm diameter using numbers legible in any country and install it under the pressure plate as shown in the drawing.

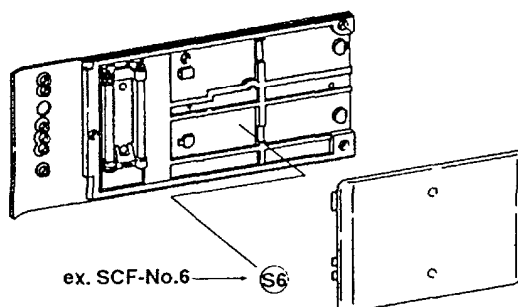


Fig.2-1 Seal Installation

3. SCF IDENTIFICATION USING THE ADJUSTMENT SOFTWARE

It is also possible to determine the active SCF with the SCF software. It does not require removing the pressure plate. Run the adjustment software and the screen which shows the ROM Version will display a number SCF No. 1 through 19.

4. REPAIRING CAMERAS WITH AN ACTIVE SCF

If the camera is initialized or the data stored and returned, the active SCF will be cleared. The SCF data is not included in the the data stored and returned to the camera, so care is required.

Prior to repair, record the active SCF number. When repair is completed, run the SCF software and reestablish the same active SCF if necessary.

SCF SOFTWARE OPERATION

1. RUNNING THE SCF SOFTWARE

The file name for the SCF software is SCF.EXE.

(A camera with no active SCF is said to be set to SCF-No. 0.)

2. USING THE SCF SOFTWARE

All operations required by the software can be accomplished with the RETURN (ENTER) key, the SPACE BAR, and the CURSOR keys. REad the screens as they appear and follow their instructions.

3. CAMERA / HS-I/F / COMPUTER CONNECTION

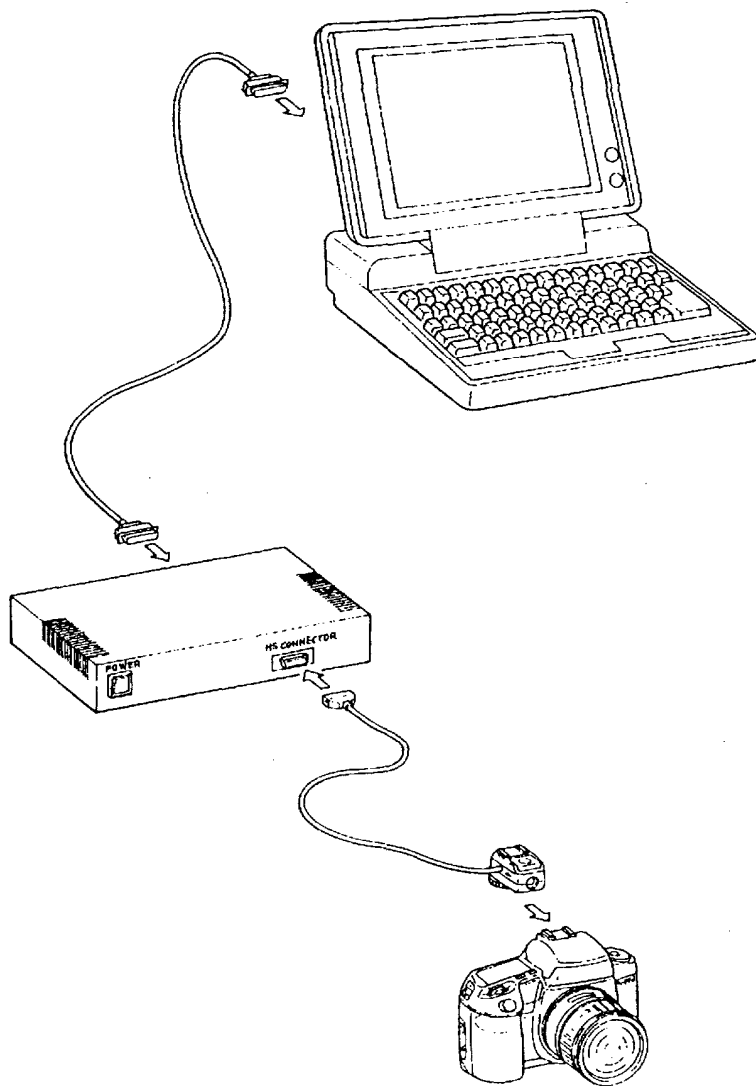


Fig.2-2 Camera Connection

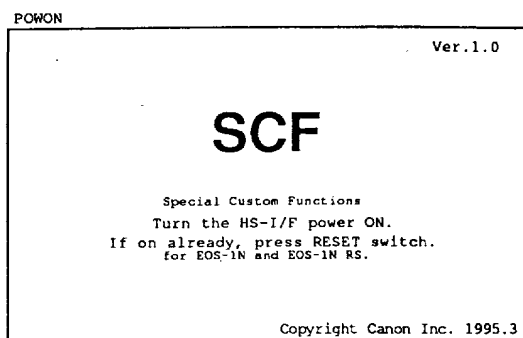
4. OPERATION START-UP

Install the SCF software disk in a computer running MS-DOS.

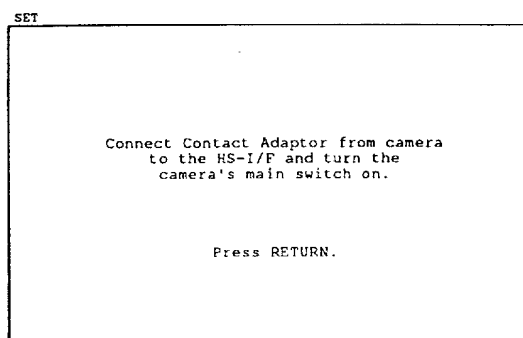
Type in:

A:>SCF [RETURN]

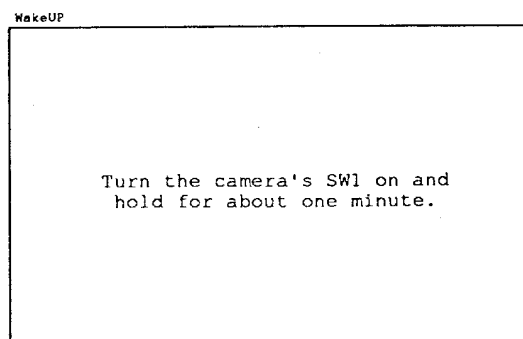
The screen at the right will appear. Follow the screen instructions and turn the HS-I/F on. If it is already on, turn it off and then turn it on again.



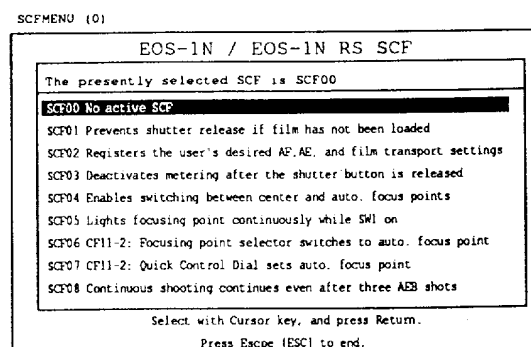
After the software has booted up with the computer and HS-I/F, this screen will appear. Turn the camera's main switch. Then press the return key.



In some cases it is necessary to press the camera's SW1 to establish communication between the camera and computer. If so, this screen will appear. If it does, press SW1 as instructed for about one minute. If you do not, an Error is likely to occur.



After the software checks communication with the camera, this menu screen will appear. The present SCF setting is indicated above the menu list. (SCF 0 indicates that no special custom function is set at the present time.)



This SCF software requires an HS-I/F with ROM Ver. 1.2 or later installed. If an HS-I/F with an earlier ROM is attached, the message at the right will appear on the screen.

ERRHSVER

HS-I/F ROM is not Ver. 1.2.
This software does not operate with
HS-I/F ROM Versions earlier than 1.2.

Press any key to exit software program.

If the camera attached is not an EOS-1N or EOS-1N RS or is an EOS-1N or EOS-1N RS with an earlier ROM is attached, the message at the right will appear on the screen.

ERRCAM

The attached camera is not
an EOS-1N or EOS-1N RS.
The SCF software is for the
EOS-1N and EOS-1N RS only.

Press any key to exit software program.

ERRCVER

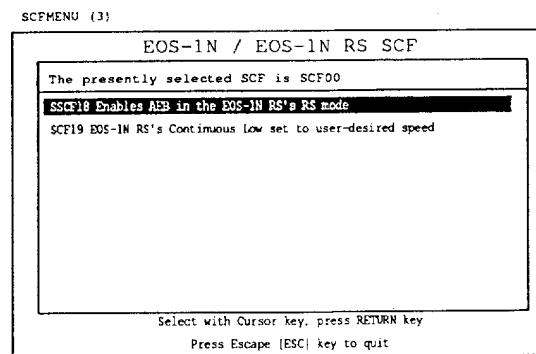
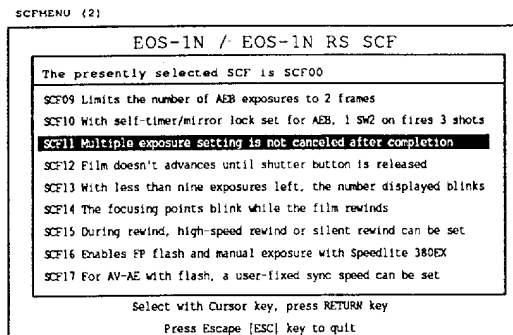
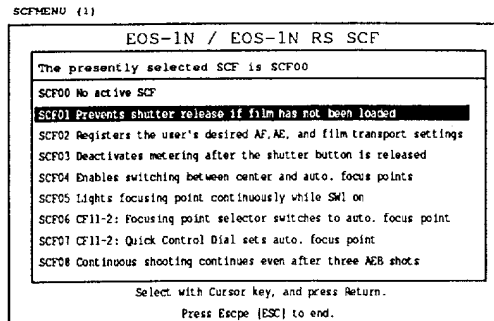
The ROM in the connected EOS-1N
or EOS-1N RS is the wrong Version.
The SCF software cannot be used
to adjust a camera with this ROM version.

Press any key to exit software program.

SCF SELECTION AND SETTING

Using your Cursor keys, scroll to the SCF which the customer desires.

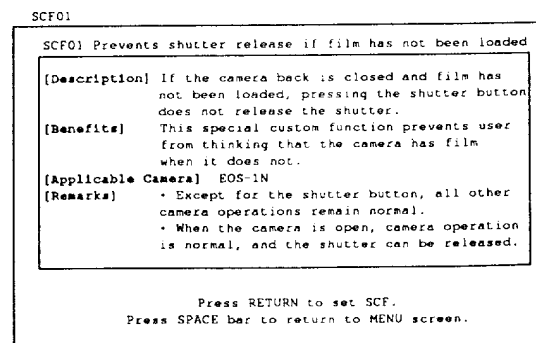
The screen cannot display all the SCFs on a single screen, Scroll with the Cursor keys to display the remaining SCFs.



When you select the desired SCF and press the Return key, this screen will appear.

(For SCF2, 17 and 19, additional input is required, Use the Cursor key to select the item and input the desired data.)

After completing the input, press Return once again to complete the setting of the SCF.



Appendix

EOS-1N / EOS-1N RS SCF

The presently selected SCF is SCF00

SCF00 No active SCF

- SCF01 Prevents shutter release if film has not been loaded
- SCF02 Registers the user's desired AF, AE, and film transport settings
- SCF03 Deactivates metering after the shutter button is released
- SCF04 Enables switching between center and auto. focus points
- SCF05 Lights focusing point continuously while SW1 on
- SCF06 CF11-2: Focusing point selector switches to auto. focus point
- SCF07 CF11-2: Quick Control Dial sets auto. focus point
- SCF08 Continuous shooting continues even after three AEB shots
- SCF09 Limits the number of AEB exposures to 2 frames
- SCF10 With self-timer/mirror lock set for AEB, 1 SW2 on fires 3 shots
- SCF11 Multiple exposure setting is not canceled after completion
- SCF12 Film doesn't advance until shutter button is released
- SCF13 With less than nine exposures left, the number displayed blinks
- SCF14 The focusing points blink while the film rewinds
- SCF15 During rewind, high-speed rewind or silent rewind can be set
- SCF16 Enables FP flash and manual exposure with Speedlite 380EX
- SCF17 For AV-AE with flash, a user-fixed sync speed can be set
- SCF18 Enables AEB in the EOS-1N RS's RS mode
- SCF19 EOS-1N RS's Continuous Low set to user-desired speed

Select with Cursor key, and press Return.

Press Escape [ESC] to end.