Canon

Service Manual

ENGLISH EDITION

EOS 1N RS

C12-8311



Canon EOS-1N RS

C12-8311

SERVICE MANUAL

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.

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CANON INC.
Photo Products Quality Advancement Div.
30-2 Shimomaruko 3-Chome, Ohta-ku,
Tokyo 146, Japan

First published January, 1996

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

Editor (Japanese): Hideyuki Matsumoto (Camera Technical Support Department)

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

Production: ABE Corporation

This manual was produced on an Apple Macintosh II ci personal computer and OKI MICROLINE 801PS+F laser beam printer; block copies were printed on OKI MICROLINE 803PSII+F

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.

Graphics were produced with either Aldus Free HandTM 3.1 or Adobe Illustrator® 5.0. All documents and all page layouts were created with QuarkXPress TM 3.3E.

PREFACE

SERVICE MANUAL COMPOSITION

This manual contains information on servicing the product. It has the following sections.

Part 1 General Information

Provides the basic information needed to understand the product.

(Operating instructions are not included. Refer to the product's instruction book if necessary.)

Part 2 Technical Information

Most technical information about this camera is provided in the EOS-1N Service Manual, therefore Part 2 in this manual is empty.

Part 3 Repair Information

Provides information for disassembly, reassembly, and adjustment of the product, about the tools required, and about the adhesives and lubricants required, and their application.

Part 4 Parts Catalog

Part 5 Electrical Diagrams

Part 6. Appendix

This manual contains SMR information which issued through January 1996 (To ACF-962E).

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Part 1

General Information

1. FEATURES

1.1 PURPOSE OF DEVELOPMENT

The **EOS-1N RS** was designed to address two specific problems which are shared by the vast majority of Single Lens Reflex (SLR) cameras in use today. They are:

- Although the SLR has a major advantage in that what you see through the viewfinder is what you get on film, the reflex mirror design is such that at the instant of exposure, the photographer is blinded by the rising mirror at the decisive moment.
- This same swinging mirror (and sub-mirrors in many cases) takes a certain amount of time to swing up and out of the way, and this ads to the uncertainty of just exactly where the subject moved while the photographer is blinded by the rising mirror.

1.2 DEVELOPMENT CONCEPT OF THE EOS-1N

- To develop a full-featured, flagship SLR to "capture the decisive moment" in real time.
- To incorporate 10 frames per second speed in the same camera.
- To capture an even greater share of the professional camera market.

1.3 FEATURES

NEVER A DARK MOMENT, THANKS TO NEW HARD-COATED PELLICLE MIRROR

- All aspects of the photograph, focus, composition, and timing are visible at the instant of exposure.
- Flash synchronization can be confirmed in the viewfinder.
- Predictive focus control can be watched right up to and during the actual exposure.
- Optimum release timing in slow-synchro photography can be determined easily.
- Results when doing multi-flash with the 540EZ can be seen in the viewfinder.
- Facilitates composition during multiple exposures.
- Camera shake can be seen right in the viewfinder, alerting the camera person to the need to hold the camera steady, especially with long lenses.
- Affects of the aperture stopping down can be seen in real time in RS mode or when using AEB in other modes.

IN RS Mode The Decisive Moment belongs to every user

HIGH-SPEED 10FPS SHOOTING IN A FULL-FEATURE SLR

RS Mode: With AF and AE locked, and the aperture stopped down, ten frames per second photography is possible.

A Mode: The full capabilities of th EOS-1N are available.

No moving mirror = No Mirror Movement shock

No moving mirror = A QUIETER CAMERA

<MEMO>

2. SPECIFICATIONS

 \star : Items changed from the EOS1-N.

1. Type

★ 1-1 Type:

35mm focal plane shutter (vertical travel) AE and AF single—lens reflex camera with integrated high speed drive and fixed beam-splitting pellicle reflex mirror.

1-2 Format:

 $24\text{mm} \times 36\text{mm}$

1-3 Usable Lenses:

Canon EF lenses (for use with full-aperture metering but not stop-down metering.)

1-4 Standard Lens:

EF 50mm f/1.4

1-5 Lens Mount:

Canon EF mount

2. AF

2-1 Type:

TTL-CT-SIR system (TTL cross-type secondary image formation phase difference detection type usable to f/2.8 on the central vertical line)

2–2 Focusing Points:

| | + | | (Center: cross, lateral spacing 4.5 & 7.5 [mm])

2–3 Focusing Point Selection:

- (1) Manual selection of focusing points

 The photographer can select one of the five focusing points and lock in the selected point.
- (2) Automatic selection of focusing points
 In one-shot AF mode: The subject information from
 the five focusing points is used to select the optimum
 focusing point, and focusing is carried out at that
 point.

Predictive focus and AI servo AF mode: Although the central section is used at the start of focusing, AI servo AF operation continues even if the subject moves aside from the center sensor to a side sensor.

2–4 Focusing Modes

The following 3 modes are selectable

(1) One-shot AF Mode: Once focused, AF operation stops and AF is locked.

Priority is given to autofocus The shutter will not release until AF is completed.

When using evaluative metering, the AF and AE settings are locked, at the same time. (During partial or spot metering, metering is carried out in real-time until the shutter is released.

CF-No.7-0:

When using certain USM lenses, manual focusing using the electronic ring is possible immediately after completion of auto focusing (after focusing is finished or when focusing is not possible).

CF-No. 7-1: Cancels the function of the above 7-0.

(2) Prediction AI Servo AF mode:

The AF system keeps tracking the moving object until exposure is actually made.

Initial frame after holding SW-1 ON in stand by mode: Priority is given to shutter release and exposure can be made anytime regardless if AF is completed or not.

Initial frame after jabbing the release (SW-1 and SW-2 ON almost simultaneously) Exposure is made after AF control is completed once.

The second frame and after during continuous shooting: The lens is driven (maximum driving time 250ms) in conformity with the necessity for object tracking before releasing the shutter.

The in-focus mark does not light when the subject is focused, but blinks at 8Hz when focusing is impossible.

- ★ AI Servo AF cannot be used in RS Mode. If RS Mode is selected while in AI Servo AF Mode, focusing mode switches automatically to One-shot AF.
- (3) Manual

AFD lens: Changeover from AF to Manual is made using the switch on the lens.

USM lens: Same as above (when CF–No. 7–1 is selected) or automatic changeover (when CF–No.7–0 is selected).

When focusing is completed, the in-focus mark (a green LED) and superimposing lamp light. No indication is given when the subject is not focused.

- ★ Manual focusing using the electronic focusing ring is possible during continuous shooting.
- 2-5 AF Operation

- CF-No. 4-0: Activated when the shutter button is depressed to the first step.
- CF-No. 4-1: Activated when the AE lock button is pressed ON.(When CF-No. 4-1 is set, AE lock s at SW-1 ON.)
- ★ CF-No. 4-2: Activated when the shutter button is depressed to the first step, and interrupted if and while the AE Lock Button is pressed.
- ★ Note that AF operation cannot be initiated if the shutter button is already pressed half way in the RS Mode because the aperture is already stopped down.
- 2–6 AF Operating Speed

High speed (same as the EOS-1)

By LCD indication in the viewfinder and by an electronic 2–7 AF Completion Indication beeper sound. CF-No.10-0: With superimposing display. CF-No.10-1: Without superimposing display. ★ On the EOS-1N the beeper can be turned on or off by the main switch. On the EOS-1N RS, custom function CF-12 is used: CF-No. 12-0: No beep CF-No. 12-1: Beeps upon AF completion EV 0-18 (ISO 100) using Canon's standard test condi-2–8 AF Working Range tions. 2-9 AF Auxiliary Light Provided when used together with an EOS flash unit (integrating an AF auxiliary light function). When a flash is used, near-infrared rays (peak wave length: 700nm) are automatically emitted from the flash whenever necessary. 540EZ: Auxiliary light corresponds to all five focusing points Other EOS flash units: Auxiliary light corresponds only to the central focusing point. An AF auxiliary light source is not built into the camera. 2–10 Focusing Point Selection CF-No.11-0: Focusing point select button + main electronic dial. CF-No.11-1: Exposure compensation button + main electronic dial. CF-No.11-2: Exposure compensation button + main electronic dial. Or by operating the quick control dial (valid during metering, during metering timer operation or during continuous shooting operation only. Automatic selection is not valid.) 2-11 Focusing Point Indication Indicated by viewfinder superimposed display, and by the 7-segment indicator on the external LCD. 3. Viewfinder Fixed eye-level pentaprism, single lens reflex viewfinder 3–1 Type with condenser lens. Standard (Ec-R) full-surface laser-matte screen with fine ★ 3–2 Focusing Screen spot metering area mark. Screen is not user-interchangeable, but can be changed by Canon Service Facilities. (Interchangeable screens for the EOS-1 can be installed, but see Precautions). -1 ± 2 dpt dioptric adjustment (eyepoint: 20mm); 3-3 Viewfinder Power

3-4 Viewfinder Coverage

Adjustment knob rotates 360°with clicks every 18°. Virtually 100% horizontally and vertically. (99% ± 1%)

- 3-5 Magnification
- 3-6 Viewfinder Information
- $0.72 \times (-1 \text{ dpt}, 50 \text{mm lens at } \infty)$
- (1) Central section of the viewing area
 - 1) AF frames (displayed by the SI screen, not by the focusing screen).
 - 2) Fine spot metering area mark (in the central section only)
- (2) Bottom of viewfinder
 - LCD (yellow-green LED back-light) indications of values, patterns and letters.
 - 3) Shutter speed (Out-of-coupling-range warning: Blinks at 2 Hz)
 - 4) Aperture (Out-of-coupling-range warning: Blinks at 2Hz)
 - * Regarding 3) and 4) above:

CF-No.6-0: Digital indication in \(\frac{1}{2} \)-stops.

CF-No.6-1: Digital indication in full-stops.

CF-No.6-2: Digital indication in ½-stops.

5) Depth-of-field AE mode (dep 1, dep 2)

Focusing point: The central focusing point in case of automatic selection and the manually selected focusing point in case of the manual selection.

- 6) *: AE lock (During AEB shooting: Blinks at 2Hz)
- 7) M: Manual
- 8) **4**: Flash charging completed.
- 9) ⁺/-: Exposure compensation
- (Also lights during flash exposure compensation using the 540EZ or 430EZ and during camera flash exposure compensation.)
- 10) : Autofocusing completed (NG: Blinks at 8Hz)
- (3) Outside the visual field, to the right
 - LCD (yellow-green LED backlit) indications of scales, dots and symbols.
 - 11) 1/3-stop scale (± 3 stops)
 - 12) Dot bars (19 **■** symbols and **▲ V**)
 - 12)-1 AE mode: Exposure compensation amount
 - 12)-2 AE lock: Real-time metering deviations
 - 12)–3 Manual exposure level
 - 12)–4 AEB step amount (3 points)
 - 12)–5 Background exposure during flash photography as metered by internal metering program.
 - 13) Remaining frame display. (Digital indication using "F" plus figures 1 9.)

These indications cannot be canceled. With built-in illumination for the LCD information window (Green LED backlight).

Fixed pellicle beamsplitter

(Reflection: Transmission = 35:65) Viewfinder blackout time: None

None with lenses up to the 1200mm @ f/5.6.

Possible (activation of the D-o-F button stops the lens down to the calculated aperture valve).

 \star In RS Mode, the aperture is stopped down by SW-1 (shutter button half stroke), therefore operation of the D-o-F button thereafter is meaningless and its switch input is ignored by the camera.

3-10 Eyepiece Shutter

3–8 Mirror Cut-off

3-9 Depth-of-Field Check

3-12 Other

★ 3-7 Mirror

Provided.

Exclusive Eye-cup Ec-II with locking feature is provided as standard equipment (removable). An angle finder, magnifier or diopter compensation lens E can be attachable to the eyepiece.

4. Exposure Control

Metering

TTL full-aperture metering using a sixteen-zone SPC and BASIS. Selectable from the following three methods:

- 1) CF-No.8-0: Evaluative metering CF-No.8-1: Center-weighted average metering.
- 2) Partial metering (Metering range: Central A0, A1, A2 and B5, corresponding to about 9.0% of the viewfinder area).
- 3) Fine spot metering (about 2.3% of viewfinder area). CF-No.13-1: Spot metering linked with the focusing points. (Using A0 – A4, about 3.5% of the viewfinder area. A0 is used in automatic focusing point selection mode.)
 - *3) The first frame when making continuous exposures: Real-time metering. The second frame and after: AE locked at the first frame.

Selectable from the following six AE modes or manual.

- (1) Shutter-priority AE (without the safety shift function).
- (2) Aperture-priority AE (same as above).
- (3) ★ Depth-of-Field AE is not provided in the EOS-1N RS.
- (4) Intelligent program AE (shifting possible)
- (5) A-TTL program flash AE (3-point flash exposure metering)
- (6) TTL program flash AE (3-point flash exposure metering)
- (7) Manual (bar dot display, metered manual)

4–1

4-2 AE Modes

CF-No.5-0: Tv set: Electronic dial.

AV set: Quick control dial.

CF-No.5-1: Tv set: Electronic dial.

Av set: Quick control dial

Using the Command Back E1: Since there is no quick control dial, its function is replaced by pressing the exposure compensation button and turning the main electronic dial.

(8) Bulb

CF-No.6-0: The setting pitch of 1), 2) and 7) is in

1/3-stop increments.

CF-No.6-1: The setting pitch of 1), 2) and 7) is in

1-stop increments.

CF-No.6-2: The setting pitch of 1), 2) and 7) is in

1/2-stop increments.

★ 4-3 Metering Range

- (1) Evaluative metering: EV 1-20 (at normal temperature, 50mm f/1.4, ISO 100).
- (2) Partial metering: EV 1 20 (as above).
- (3) Fine spot metering: EV 3–20 (ISO 100, any maximum aperture).

4-4 Coupling-range Warning

External and viewfinder internal LCD digital display blinks at 2 Hz.

4-5 Exposure Metering

Works when the shutter button is pressed to the first step (SW-1 on).

Before release: The metering timer works for 6 seconds after finger is removed from the shutter button.

After release: The metering timer works for 2 seconds after finger is removed from the shutter button.

4-6 Film Speed Range

CF-No.3-0: ISO speeds from 25 – 5000 are automatically set in 1/3-stop steps according to the DX code. Manual setting from ISO 6 to 6400 can also be made.

When NON-DX code film is used, the previously set ISO film speed blinks in the display, indicating that manual setting is required.

CF-No.3-1: Manual setting only (ISO 6 - 6400)

4–7 Exposure Compensation

- (1) AEB: Auto Exposure Bracketing
 - 1) Presetting: Possible in all exposure modes excluding (5), (6), and (8) of the AE modes listed above in 4–2.
 - ★ AEB in not possible in RS Mode and is cancelled automatically if already set when RS Mode is engaged.
 - 2) Operation: Press the battery check button and the film winding mode select button and turn the main electronic dial. CF-No.9-1, -3: It can also be set by

holding the AF mode select button + shooting mode select button pressed ON and turning the main electronic dial.

- 3) Bracketing range
 - CF-No.6-0, -1: 1/3-stop steps ± 3 stops CF-No.6-2: 1/2-stop steps ± 3 stops
- 4) Number of exposures: Three frames are exposed in accordance with the film transport mode as given below:

CF-No.9-0, -1: 3 frames in the order of - ' 0 ' + CF-No.9-2, -3: 3 frames in the order of 0 ' - ' +

5) The affected camera setting(s) for the various shooting modes are as follows:

Exposure Control Modes			AV
Shutter-priority AE			•
Aperture-priority AE			-
Depth-of-field AE			-
Program AE		•	• .
Manual Exposure	CF-No. 5-0	•	-
·	CF-No. 5-1	-	•

6) Cancellation

CF-No.9-0, -2: CLEAR, flash charge completion, bulb, main switch "L", lens exchange, film loading, AL or REW.

CF-No.9-1, -3: AEB operation is canceled when one of the following occurs: CLEAR, flash charge completion and bulb.

(2) Manual setting

1) Range and precision

CF-No.6-0, -1: 1/3-s

1/3-stop steps ± 3 stops

1/2-stop steps ± 3 stops

CF-No. 6-2: 2) Operation

CF-No.11-0: Quick control dial, exposure compensation button + main electronic dial.

CF-No.11-1: Quick control dial, focusing point select button + main electronic dial.

CF-No.11-2: Focusing point select button + main electronic dial

- (3) Combinations of the above (1) and (2) are also valid.
- (1) Auto AE lock: The AE reading is locked at the instant focusing is completed in one-shot AF mode when using evaluative metering.

4-8 AE Lock

- (2) Manual AE lock CF-No.4-0: Effective in any metering mode by pressing the AE lock button.
- CF-No.4-1: Effective in any metering mode by pressing SW-1 ON.
- When the metering timer is working, AE lock is maintained and can be renewed by pressing the shutter button again.
- To cancel, wait for the metering timer to go OFF, turn the main SW to "L", or press one of the respective mode buttons, BC, CLEAR, REW or CF button.
 - * The AE lock button does not function while an EZ series flash is being used after charging is completed.
- ★ In RS Mode, AE is not locked at completion of AF.

Multiple Exposures

Possible. Automatic resetting continuous multiple exposures are possible. (Film drift: 0.1mm or less) Designation of the number of multiple exposures is also possible (up to 9 exposures, maximum). (Intermediate cancellation or resetting is also possible.)

- 5. Shutter
 - 5-1 Type

 - 5–2 Speed Range

- 5–3 Release System
- 5–4 Release Time Lag

★ Double shielding focal plane type using vertical-travel carbon blades. All speeds are electronically controlled, . Electromagnetic control independently releases the first curtain and second curtain, respectively. (Curtain speed 2.7 ms/24 mm; 2.2ms for EF8000 slit width)

1/8000 sec. to 30 sec. 1/3-stop digital indications on the LCD X = 1/250 sec. in shutter-priority AE and manual exposure modes.

CF-No. 6-0:

1/3-stop setting

CF-No. 6-1:

Full-stop setting

CF-No. 6-2:

1/2-stop setting

Elapsed time indication is provided in bulb mode. (Advances 3 bar marks every 30 seconds, indicates up to 120 seconds.)

Soft touch electromagnetic release system (without cable release socket)

Release time lag (excluding AF operation) EF 50mm f/1.4USM lens set to f/2.8.

- (1) In A Mode;
 - SW-1 ON, pause SW-2 ON to exposure start: 61ms Simultaneous SW-1 and SW-2 ON to exposure start: 206ms
- (2) In RS Mode: SW-1 ON, pause SW-2 ON to exposure start: 6ms

	0.16.1
5–5	Self-timer
J-J	

Electronically timed 2 or 10 second delay self-timer.

The self-timer starts when AF operation is finished in any AF mode (the AE reading is locked at this time) and the shutter button is pressed to the second step. (The timer will not start even if the shutter button is pressed until the AF operation is finished.)

The self-timer operation is indicated by an LED (Initial 8 sec.: 2Hz, final 2 seconds: 8Hz flashing) and the external LCD counts down the seconds with a digital display.

To cancel the timer after activation, set the main switch to the "L" position. Timer operation will be interrupted.

5-6 Camera-shake Warning

Not provided.

6. Film transport

6–1 Film Loading

Automatic loading using a sprocket and toothed spool. Blank film advance starts automatically when the back cover is closed after loading the film (only the film advance mechanism operates) and winds the film until the film counter reaches "1" (time required: 3 sec.) before stopping automatically. Loading is not possible when the main SW is at "L".

6–2 Winding System

Automatic winding by a dedicated coreless miniature

motor.

★ 6–3 Winding Modes

Three winding modes: High-speed continuous exposure (CH) mode, low-speed continuous exposure (CL) mode or single exposure (S) mode.

6-4 Film Winding Start

Film winding starts when the exposure completion signal is detected.

6-5 Film Winding Check

By moving bar mark on the LCD display panel.

6-6 Winding Speed

(1) The winding speed [f/s] is as follows in continuous exposure mode at shutter speeds of Tv=1/1000 sec. or faster in RS-CH mode, and at shutter speeds of Tv=1/250 sec. or faster in other modes.

Mode	RS Mode	A Mode	
Winding		One Shot / Manual	Al Servo AF
СН	Approx. 10f/s	Approx. 6f/s	Approx. 5f/s
CL	Approx. 3f/s	Approx. 3f/s	Approx. 2.5f/s

(2) Single exposure (C) mode; winding is completed at the same speed as during CH mode.

6–7 Shooting Capacity

Number of 24EX/(36EX) film rolls.

Danier	Ambient Temperature		
Power	+20°C	-20°C	
8x LR6	100/(65)	6/(4)	
8x KR15/51	45/(30)	30/(20)	
NiCd Pack E-1	65/(45)	45(30)	
8 x FR6250/(165)	90/(60)		

- 6–8 Film rewinding System
- Automatic rewinding by a coreless miniature motor.
- 6-9 Start of Rewinding
- (1) Automatic

CF-No.1-0, -2: Auto-rewind starts under the following conditions (-0 high speed and -2 silent)

- 1) When the DX designated number of exposures are completed.
- 2) When the film end is sensed (by tension).
- CF-No. 1-1,-3: Automatic rewinding starts when the film rewind button is pressed after the film roll is completed. (-1 high speed and -3 silent)
- (2) Mid-roll rewind: Mid-roll rewinding is possible at all times by pressing the film rewind button.
- 6–10 Rewinding Confirmation

By moving bar mark and count-down of the frame counter display.

6-11 Rewinding Time

Time required for rewinding a 24EX/(36EX) roll, using new batteries at normal temperature (Times in this chart are all approximate in seconds.)

Power	Rewind Time	24exp/(36exp)
Power	CF-No.1-0,1	CF-No.1-2,3
8x LR6	4.5(7)	13/(20)
8x KR15/51	4.5(7)	13/(20)
NiCd Pack E-1	4.5(7)	13/(20)
8 x FR6	4.5(7)	13/(20)

O 12 Rewind Completion	6-12	Rewind	Comp	letion
------------------------	------	--------	------	--------

CF-No.2-0: Stops automatically after the film leader

is wound completely into the cartridge.

CF-No.2-1: Stops automatically leaving just the

film leader section protruding from the cartridge. Under CF-No.2-1, when the shutter is released with the back cover open, the shutter is activated at 1/8000, regardless of settings, to pro-

tect the shutter mechanism.)

6-13 Completion Indication

6–14 Film Loaded Check

Cartridge symbol blinks at 2Hz in LCD panel.

- (1) Indicated by a film cartridge symbol on the top-deck LCD regardless of switch setting.
- (2) By visual check using the standard back cover's film check window.

6-15 Frame Counter

- (1) Additive (counts down during rewinding) digital indication by the electronic counter on the LCD panel.
- (2) The number of frames remaining is shown by a single 7–segment LCD on the right side of the viewfinder. When more than nine frames remain, an "F" is displayed (The display disappears during rewinding)

48dB at 15 cm behind the camera.

6-16 Film Rewind Noise

7. Camera Body

7-1 Back Cover

Can be opened or removed by operation of the back cover open latch (with safety lock). Provided with a film check window, but no memo-holder.

7–2 Flash Contacts

- (1) Accessory shoe: X sync and dedicated contacts
- (2) Lower section of the right side of the camera body: JIS type–B PC socket (with lock screw and shock prevention function at the accessory shoe).

Simultaneous use of the hot shoe and PC terminal for simultaneous flash is also possible.

7–3 Accessory Shoe

With a lock pin hole to secure Speedlites equipped with a locking pin.

7-4 Automatic Flash

Using EOS type EZ series flash units with the camera set to program AE mode.

- (1) A-TTL flash exposure: The shutter speed is automatically set to a synchronizing speed (1/250 1/60 sec.) when charging is complete and the optimum flash aperture value is automatically set in compliance with the distance determined by IR pre-flash and the subject conditions (brightness) by the A-TTL program stored in the camera and the flash. No pre-exposure out-of-coupling-range warning. TTL automatic flash exposure control by off-the-film reflection metering. (Three-zone flash exposure metering, linked to the selected focusing point). Automatic fill-in flash is also possible.
- (2) TTL automatic flash exposure: The shutter speed is automatically set to a synchronizing speed (1/250 1/60 sec.) and the flash aperture value is automatically set by the TTL program of the camera body. TTL flash exposure control by off-the-film reflection metering. (Three-zone flash metering, linked to the selected focusing point) Automatic fill-in flash is also possible.

In either (1) or (2) above, a manual synchronizing shutter speed of less than 1/250 sec. can be selected in shutter-priority AE mode and a manual aperture value can be selected in aperture-priority AE.

- (3) Other
- 1) T or A series Speedlites can be used in manual exposure mode.
 - * Shutter speed: Set manually to a shutter speed within 1/250 30 sec.
 - * Aperture: Set the same aperture value on the camera body and flash unit.
- 2) General-use flash units: General-use small-sized flash units: Can be used for synchronous exposure at 1/250 sec. or slower. Large studio flash units: Can be used for synchronous exposure at 1/125 sec. or slower, but tests should be carried out to confirm flash synchronization.)
- (1) Number of stops

CF-No.6-0, -1: ± 3 stops. in 1/3-stop steps

CF-No.6-2: ± 3 stops in 1/2-stop steps

(2) Operation: Metering mode button + quick control dial or Metering mode button + focusing point select button + main electronic dial.

Fourteen custom functions are the same as EOS-1N except CF#12 (see Specification 2-7 AF Completion Indication: The active CF–No. is displayed on the external LCD panel (exposure bar indicator).

- 7–5 Flash Exposure Compensation
- ★ 7–6 Custom Functions

7-7 Clear Button

(1) When this button is pressed under normal state, respective items are simultaneously reset to the following status. However, when using partial metering, fine spot metering or spot metering, under the CF-No.8-1 (whereby the evaluative metering mode is changed to center-weighted average metering mode), the metering mode is not changed even if the clear button is pressed.

Reset Status
Program AE
One-shot AF
Evaluative Metering
S (single exposure)
Default settings
Default settings
Default settings
Canceled

(2) When the clear button is pressed in the custom function setting state, all the custom functions are automatically reset to their home positions (-0).

Same as the PDB-E1 power sources.

Turns the camera OFF when set to the "L" position.

3-step bar mark display (4-step if OFF included) on the LCD panel when the BC button is pressed.

Large-sized LCD panel. Built-in full-surface uniform illumination (EL) function.

CU-1/4" 20P

Possible. A three-pin remote control socket is provided in the lower section of the left side of the body.

Fixed, not interchangeable.

Hybrid glass–fiber reinforced polycarbonate body with diecast aluminum aperture section.

Black

 $161(W) \times 155.9(H) \times 71.8(D) \text{ mm}$

Net Weigl	ıt		Combi	nations	
EOS-1N RS:	1295	•	•	•	•
Hand Strap	20	•	•	•	•
8 LR6 cells200			•		
NiCd Pack E-1	225			•	•
8 FR6 Cells	120				•
Gross weight:		1315	1515	1495	1435

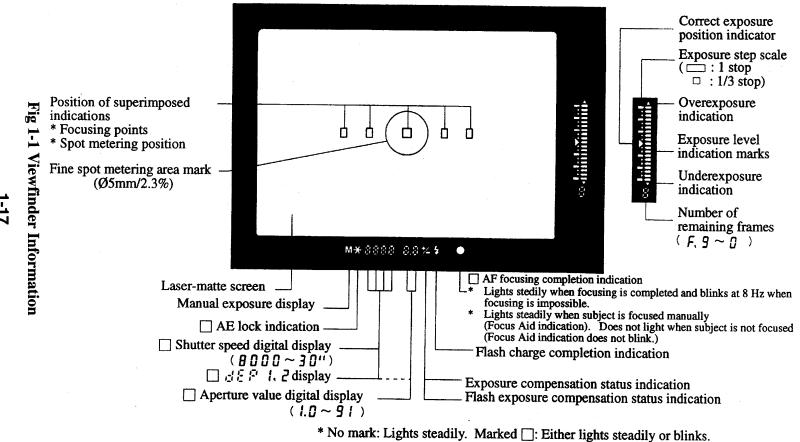
Notes: Battery Magazine: 45g included in EOS-1N RS weigh, except in combination with NiCd Pack E-1.

- ★ 7–8 Power Source
 - 7-9 Main Switch
 - 7-10 Battery Check
 - 7–11 External Display
 - 7-12 Tripod Socket
 - 7-13 Remote Control
- ★ 7-14 Grip
 - 7-15 Body Material
 - 7-16 External Color Finish
 - 7-17 Dimensions
- **★** 7-18 Weight

8. New	Main Accessories	Same as EOS-1N, except Battery Pack E-1 and cases are not applicable.
8-1	Speedlite 540EZ	Clip-on system flash usable with external power supply.
8-2	Wireless Controller LC-3	Three terminal remote controller for EOS cameras.
8–3	Eye-cup Ec-II	Standard equipment with the EOS-1N and also usable with the EOS-1).
★ 8-4	Focusing Screen Ec-R	Standard equipment with the EOS-1N RS.

VIEWFINDER INFORMATION

Viewfinder Information Inside and Outside the Image Area



* No mark: Lights steadily. Marked : Either lights steadily or blinks Out of exposure coupling range warning: Blinks at 2Hz.

\square Shutter speed setting / calculated value ($\beta \square \square \square \sim \beta \square''$) Exposure mode indications \square ISO film speed ($\square \sim \square \vee \square \square$) Manual exposure mode Shutter-priority AE mode ☐ b c (battery check mode indication) Program AE mode dEP (Depth-of-Field AE operation) Depth-of-field AE mode -h., | h (Bulb mode indication) Aperture-priority AE mode - Custom function indication $(F - ! \sim ! \forall)$ - Focusing point indications Fig 1-2 Top Deck LCD Information Custom function setting ☐ ISO indication Focusing mode indications (0/1/2/3)_ One-shot AF ☐ Aperturet, setting / calculated value AI servo AF $(1.0 \sim 91)^{-1}$ AEB step amount $(\Pi, \Pi \sim 3, \Pi)$ AF function indication (printed) (dEP)1.2-Film tranport function indication (printed) Metering mode indications Evaluative metering [©] Film transport mode indications -1. .O. .+1 Single exposure () Partial metering Continuous exposure Spot metering [-] Self-timer Flash exposure compensation Exposure compensation scale Film cartridge symbol -Film rewinding completion / AL failure indications — Film transport operation indication (winding, rewinding) Multiple exposure indication Film transport NG warning (flashes) AEB indication - Film winding completion Frame counter function indication - Battery check indication (4-step indication including OFF) - Exposure compensation level \square Frame counter value ($\frac{1}{2} \sim \frac{3}{2} = \frac{5}{2}$) --Bulb exposure time indication (repeats every 30 seconds) Bulb exposure time $(1 \sim 30)$ AEB setting level Number of preset multiple exposures ($1 \sim 9$)— Flash exposure compensation level Count down of multiple exposures ($9 \sim 1$)— Custom function setting * No mark: Lights steadily. Marked : Flashes. Marked : Either lights steadily or flashes.

LCD Panel Indications

Exposure Warnings in Various AE Modes

■ Using 50mm f/1.4 - ISO 100

* Numbers enclosed by a dotted line blink at 2Hz.

	Shooting conditions	Low bri	Low brightness		Correct exposure		High brightness	
Exposure modes		Underexposure warning		indication (ISO100, EV12)		Overexposure warning		
		TVset	AVauto	TVset	AVauto	TVset	AVauto	
Α	Tv AE	125	[,¥ = -2	125	5.6	125 ■-6	22	
U		TVauto	AVset	T∨auto	AVset	TVauto	A∨set	
Т	Av AE	30''	5, 5 ₽1-3	125	5.8	8000 □ -7	5,6	
		TVauto	AVauto	TVauto	AVauto	TVauto	AVauto	
0	Program AE	30''	. 1,4 <u>==</u> -1	125	5.6	8000 63 -5	22	



AE Modes Exposure Warnings

WARNINGS

■DEPTH: Using 50mm f/1.4 - ISO 100

Shootingg conditions	Low bright	tness	Correct exposure	High brightness Overexposure warning	
Shooting mode	Underexposure warning	Depth warning	indication		
DEPTH	TVauto AVauto	TVauto <u>AVauto</u> 30'' 5.5	TVauto AVauto	TVauto AVauto	

■METERED MANUAL: Using 50mm f/1.4 - ISO 100

	Underexposure warning	Correct exposure indication	Overexposure warning
MANUAL	TVset 125 8	TVset 125 5.5	TVset 125 4.0
	± -4 8	<u>:</u>	G -8

Modes Exposure Warnings

Fig 1-4 A-TTL & TTL Warnings

■ Viewfinder Exposure Warnings in A-TTL and TTL Automatic Flash Exposure Modes (Using 50mm f/1.4) * Numbers enclosed by a dotted line blink at 2Hz.

Subject brightness	Low brightness General flash photography		Medium brightness Daylight fill-in flash		Daylig	High brightness Daylight fill-in flash	
	Underexposure warning based on overall average metering		Correct exposure level based on overall average metering		Overexposure warning based on overall average metering		
Exposure modes	TTL flash exposure - Correct		TTLflash exposure - Correct		TTL flash exposure - Correct		
Tv AE	TVset	AVauto	TVset 125	AVauto 5.5	TVset	AVauto	
Av AE	TVauto * Note-1	AVset 5.6	TVauto 125	AVset 5.5	TVauto 250	AVset 5.5	
Program AE	TVauto 50 * Note-2	AVauto 1,4~22	TVauto 125	AVauto 5.5	TVauto 250	AVauto 22 +-5	

<sup>Note-1: Automatic slow synchro exposure state indication at EV 5. When the brightness drops to a level requiring a shutter speed of 30 sec., 30" blinks for warning.
* Note-2: General indoor shooting in program AE mode. Underexposure warning is not available in this state.
* Note: When using flash in DEPTH mode, exposure is carried out the same asin program flash mode.</sup>

Fig 1-5 Exposure Warnings and Countermeasures

Exposure related Warnings and Countermeasures

[1] Exposures using the functions of the basic camera, without flash.

Type of warning		Warning indications		Countermeasures for respective warnings	
Type of warming		TV warnings	AV warnings	Counterinious and Academia was assessed to the counterinious and t	
Underexposure warnings	① ② ③ ④	30'' TVset 30'' TVset	AVO AVO AVset AVset	 1 (1) Use flash or artificial lighting. (2) Use a higher speed film. (3) Give up the photograph. 2 (1) Set a slower shutter speed until the aperture value stops blinking. 3 (1) Open the aperture until the shutter speed stops blinking. 4 (1) Open the aperture or (2) Set a slower shutter speed, until the mark aligns with the correct exposure mark ▷. 	
2. Overexposure warnings	① ② ③ ④	8000 TVset 8000 TVset	AVmin AVmin AVset AVset	 3 (1) Use an ND filter. (2) Use a lower speed film. (3) Give up the photograph. 6 (1) Set a fester shutter speed until the aperture value stops blinking. 7 (1) Close the aperture until the shutter speed stops blinking. 8 (1) Close the aperture or (2) set a faster shutter speed, until the mark alignts with the correct exposure mark ▷. 	
3. DEPTH warnings		30''	AVauto	■-9 (1) Expected depth of field cannot be obtained. → Use a higher speed film or (2) give up the DEPTH mode exposure.	

[2] Exposures using flash: 540EZ/430EZ The following warning is added to the above warnings in [1].

4. Flash synchronization		A31	■-7 (1) Close down the aperture until "250" stops blinking.
speed high-speed- limit warning	250	AVset	

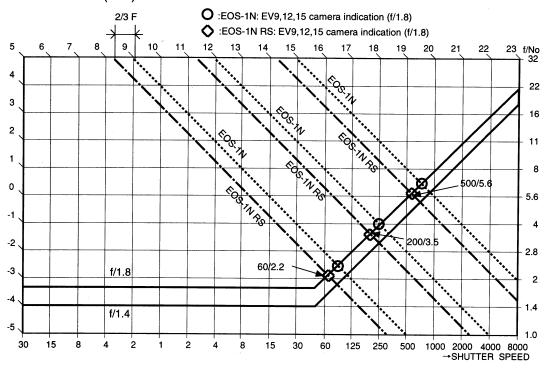
- Note:1) [_____] Numbers enclosed by a dotted line blink at 2Hz.
 2) AV 0 represents the maximum aperture of the lens and AVmin represents the minimum aperture of the lens.
 3) TVset and AVset stand for the shutter speed and aperture value, respectively, manually set by the user.
 4) TVauto and AVauto represent the shutter speed and aperture value, respectively, automatically calculated and set by the camera.

4. PROGRAM DIAGRAMS

4.1 EF 50MM F/1.4 (F/1.8) & EF 35-105MM F/3.5 - 4.5

Due to the pellicle mirror there is a 2/3 stop difference in the camera indication for the EOS-1N RS compared to the EOS-1N, but the program line is the same.

EF 50mm f/1.4 (f/1.8)



EF 35-105mm f/3.5 - 4.5

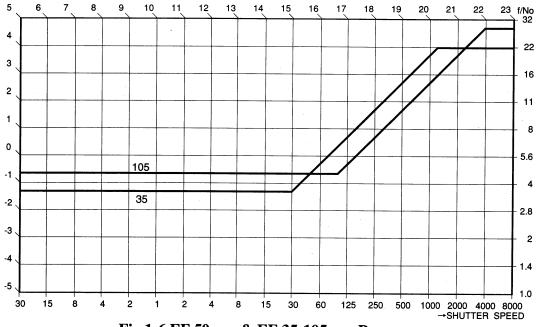


Fig 1-6 EF 50mm & EF 35-105mm Programs

4.2 EF 50MM F/1.4 PROGRAM WITH ISO RANGE

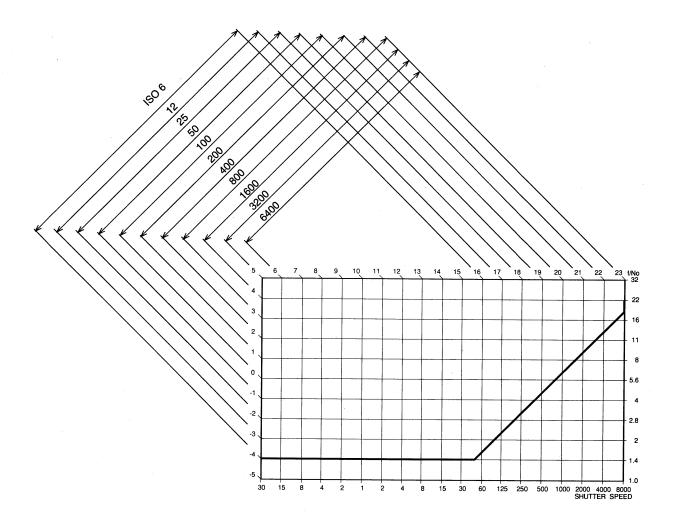


Fig 1-7 EF 50mm f/1.4 Program, with ISO Range

4.3 FLASH PROGRAMS

1. A-TTL PROGRAM

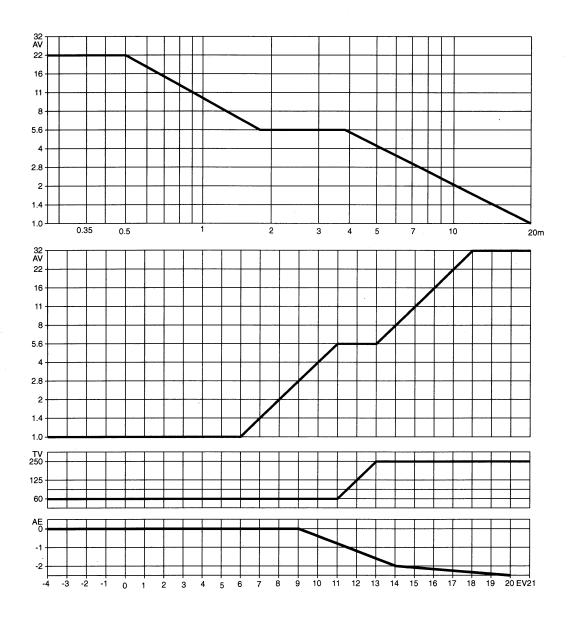


Fig 1-8 A-TTL Program

2. TTL PROGRAM DIAGRAM

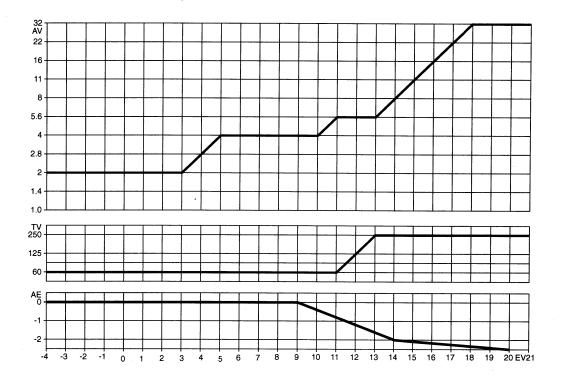


Fig 1-9 TTL Program Diagram

5. EOS SYSTEM ACCESSORIES TABLES

Compatibility: ✓: Possible ७: Possible under certain conditions ✗: Not possible

5.1 INTERCHANGEABLE LENSES (ZOOMS)

INTERCHANGEABLE	•	,
Product name	Compatibility	Note
EF20-35mm f/2.8L	✓	
EF20-35mm f/3.5-4.5 USM	✓	
EF28-70mm f/2.8L USM	✓	
EF28-70mm f/3.5-4.5	✓	
EF28-70mm f/3.5-4.5 II	✓	
EF28-80mm f/2.8L USM	✓	
EF28-80mm f/3.5-5.6 USM		
EF28-80mm f/3.5-5.6 USM II	√ ,	
EF28-105mm f/3.5-4.5 USM	✓	
EF35-70mm f/3.5-4.5	✓	
EF35-70mm f/3.5-4.5 A	✓	
EF35-80mm f/4.0-5.6	✓	
EF35-80mm f/4.0-5.6 PZ	✓	
EF35-80mm f/4.0-5.6 USM	✓	
EF35-105mm f/3.5-4.5	✓	
EF35-105mm f/4.5-5.6	✓	
EF35-105mm f/4.5-5.6 USM	✓	
EF35-135mm f/4.5-5.6	✓	
EF35-135mm f/4.5-5.6 USM	✓	
EF35-350mm f/4.5-5.6	✓	
EF35-105mm f/3.5-5.6L USM	✓	
EF50-200mm f/3.5-4.5	✓	
EF50-200mm f/3.5-4.5L	✓	
EF70-210mm f/4	✓	
EF70-210mm f/3.5-4.5 USM	√ ·	
EF75-300mm f/4-5.6	✓	
EF75-300mm f/4-5.6 USM	✓	
EF80-200mm f/2.8L	✓	
EF80-200mm f/4.5-5.6	✓	
EF80-200mm f/4.5-5.6 USM	✓	
EF100-200mm f/4.5 A	✓	
EF100-300mm f/5.6	✓	
EF100-300mm f/5.6L	✓	

5.2 INTERCHANGEABLE LENS

Product name	Compatibility	Note
EF14mm f/2.8L USM	- ✓	
EF15mm f/2.8 FE	· 🗸	
EF20mm f/2.8 USM	√	
EF24mm f/2.8	✓	
EF28mm f/2.8	✓	
EF35mm f/2.0	✓	
EF50mm f/1.0L USM	✓	
EF50mm f/1.4 USM	✓	
EF50mm f/1.8	✓	
EF50mm f/1.8 II	✓	

EF50mm f/2.5 MACRO	· /
EF85mm f/1.2L USM	1
EF85mm f/1.8 USM	1
EF100mm f/2.0 USM	1
EF100mm f/2.8 MACRO	1
EF135mm f/2.8 SF	1
EF200mm f/1.8L USM	1
EF200mm f/2.8L USM	1
EF300mm f/2.8L USM	1
EF300mm f/4.0L USM	✓
EF400mm f/2.8L USM	1
EF400mm f/5.6L USM	1
EF500mm f/4.5L USM	1
EF600mm f/4.0L USM	1
EF1200mm f/5.6L USM	1
TS-E24mm f/3.5L	1
TS-E45mm f/2.8	1
TS-E90mm f/2.8	1
EF 2X Extender	1
EF 1.4X Extender	1
Life Size Convertor EF	1
Extension Tube EF25	✓
Lens Mount Convertor FD-EOS	✓
M-Lens Mount Convertor FD-EOS	✓

5.3 SPEEDLITES

Product name	Compatibility	Note
540EZ System		
480EG System	✓	
420EZ	✓	
430EZ system	✓	
300EZ	✓	
200E	√	
160E	✓	
ML-3set	✓	
Multiple flash system	✓	

5.4 BOTTOM ACCESSORIES

Product name	Compatibility	Note
GR10 (650)	×	
GR20 (EOS620,	X	
w/remote control) terminal		
GR50 (for EOS750/850/700)	X	
GR60 (EOS10 Grip Extension)	X	
GR70 (EOS1000 Grip Extension)	X	
VG10 (EOS5 Vertical Grip)	X	
GR80TP w/tripod(EOS 500)	X	
★ Power Drive Booster E-1	X	
★ Battery Pack BP-E1	X	

5.5 VIEWFINDER ACCESSORIES

Product name	Compatibility	Note
Eye Cup E (650/620)		Cosmetic differences only
Eye Cup Eb (750/850)		Cosmetic differences only
Eye Cup Ec (EOS-1)	✓	-
Eye Cup Ec-II (EOS-1N)	✓	
Eye Cup Ed (EOS-5)	X	
Eye Cup Ed-E (EOS-5)	X	
Dioptric Adjustment	✓	
Lens E (10 kinds)		
Rubber Frame Eb		Cosmetic differences only
Rubber Frame Ec (EOS-1)	✓	
Rubber Frame Ed (EOS-5)	×	
Focusing Screen E (7 types)	×	
Focusing Screen Ec (8 types)		See Precautions (Section 7)
Focusing Screen Ec-CII	×	
Focusing Screen Ed (6 types)	×	
Magnifier S	✓	
Angle Finder B	✓	
Angle Finder Adaptor Ed (EOS-5	5) 🗶	
Eyepiece Extender EP-EX-15		Cosmetic differences only

5.6 REMOTE DEVICES

Product name	Compatibility	Note
Remote Switch 60T3	- ✓	
Remote Switch RS-60E	x	
Remote Controller RC-1	X	
Wireless Remote Control LC-2	✓	
Wireless Remote Control LC-3	✓	

5.7 DATA BACKS

Product name	Compatibility	Note
Quartz Date Back E	×	
Technical Back E	×	
Keyboard Unit TB	×	
Interface Unit TB	×	
Command Back E1	1	

5.8 FILTERS

Product name	Compatibility	Note
Drop-in Circular Polarizing	✓	
Filter PL-C48		
Circular Polarizing Filter PL-C52	✓	
Circular Polarizing Filter PL-C58	✓	
Circular Polarizing Filter PL-C72	✓	
Circular Polarizing Filter PL-C77	✓	
Drop-in Gelatin Filter Holder II	✓	
Gelatin Filter Holder E52/58/72	✓	

5.9 EOS SERIES COVERS AND CASES

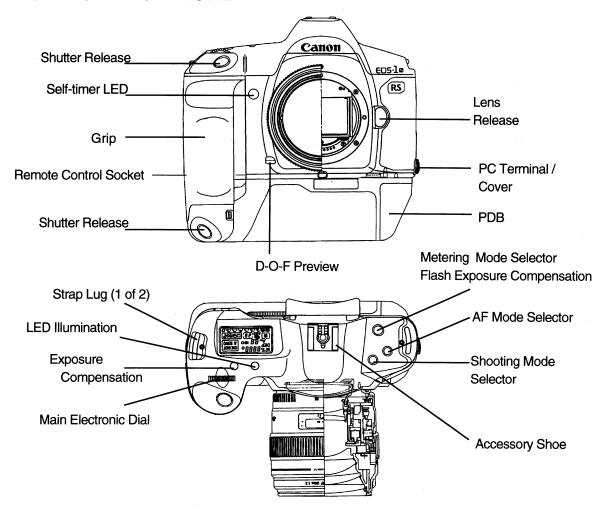
Product name	Compatibility	Note
Snap Case SA-4	×	
Snap Case SB-4	×	
EOS650/620 cases	X	
EOS750/850 cases	X	
EOS 1 cases	X	
EOS 10 cases	×	
EOS 1000 cases	X	
EOS 100 cases	X	
EOS 5 cases	X	
EOS KISS / 500 / Rebel X cases	X	
★EOS 1N cases	X	

5.10 MISCELLANEOUS

Product name	Compatibility	Note
Panorama Adaptor PA-1000	X	

6. EXTERIOR VIEWS

6.1 NOMENCLATURE



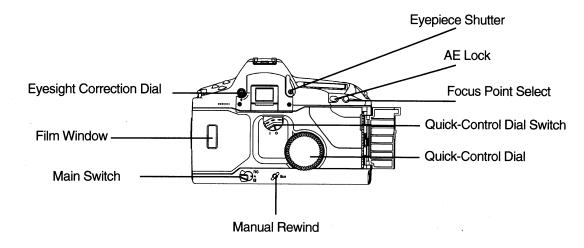


Fig 1-10 Nomenclature

6.2 DIMENSIONS

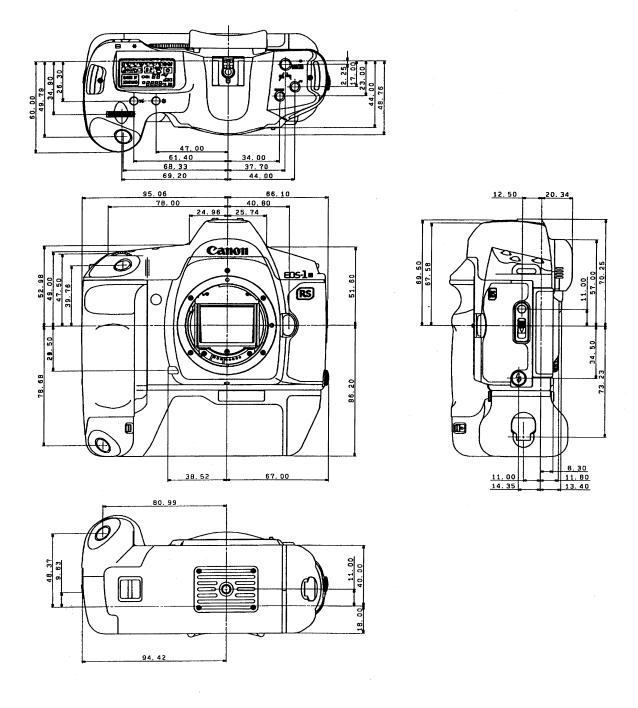


Fig 1-11 External Dimensions

7. PRECAUTIONS

- All these precautions apply only to the EOS-1N RS. Precautions listed in the EOS-1N Service Manual also apply.
- 1. Cleaning of the pellicle mirror with other than a blower should only be performed at an authorized service center.
 - Reason: Same as with conventional glass mirrors.
- 2. Changing the focusing screen can be performed at an authorized service center only.
 - Reason: The focusing screen cannot be changed by the user. The shape of the mask in the upper inside of the mount has been modified (the focusing screen tool insertion slot has been removed) to prevent ghosting, making it structurally impossible for the screen to be exchanged by the user.
- 3. The eyepiece shutter should always be closed when taking pictures without looking through the viewfinder, such as during self-timer photography.
 - Reason: Light entering the camera through the viewfinder eyepiece will pass through the pellicle mirror and fog the film.
- 4. When using a flash in manual firing mode, the photographer should compensate the exposure to account for the reduction in light transmission (-2/3 stop) caused by the fixed pellicle mirror.
 - Reason: The pellicle mirror reduces the amount of light reaching the film by about 2/3 stop compared to the EOS-1N. Manually set the aperture to a value obtained from the formula: [Nominal Guide No. x0.8] /Shooting Distance
- 5. When using the 480EG flash in external sensor automatic mode, the flash exposure should be compensated by +2/3 stop.
 - Reason: The pellicle mirror reduces the amount of light reaching the film by about 2/3 stop compared to the EOS-1N. This can be easily done by shifting the 480EG's ISO film speed setting 2/3 of a step to a slower speed.
- 6. The far side of the flash shooting distance range is shortened by 20% compared to the EOS-1N.
 - Reason: The pellicle mirror reduces the amount of light reaching the film by about 2/3 stop compared to the EOS-1N. At distance closer than the 20%-reduced maximum distance, the camera's TTL automatic flash system will obtain a correct exposure.
- 7. When using an external hand-held meter and setting the camera manually, compensate the meter reading by +2/3 stop to obtain the correct camera settings.
 - Reason: The pellicle mirror reduces the amount of light reaching the film by about 2/3 stop compared to the EOS-1N. By adjusting the meter's film speed setting ahead of time to a 2/3-stop slower film speed, the meter reading can be used directly to determine the camera settings.
- 8. When pressing the shutter button halfway (SW-1 ON) in real-time release mode, a sound similar to the shutter release sound is heard.
 - Reason: The sound is caused by the release of the shutter's rear curtain from its light-blocking position, and by the retraction of the AF sub mirror. Same as with the EOS RT.

- 9. With the EF50mm f/1.0L USM lens, the upper image area is partially vignetted. *Reason: The vignetting is cause by the pellicle mirror's mounting frame.*
- 10. When CF-No. 4-1 (AF activated by pressing the AE lock button) is selected in real-time release mode, the shutter button should be pressed halfway (SW-1 ON) after the autofocusing operation is completed.
 - Reason: Same as with the EOS RT, the SW-1 ON operation stops down the lens aperture, which makes focusing impossible depending on the aperture (smaller apertures block the light used by the camera's AF sensor).
 - While SW-1 is on, autofocus will not operate even if the AE lock button is pressed.
 - •: If SW-1 is turned on by AE lock button during autofocusing operation, the aperture stops down after autofocusing is completed.
- 11. When using the Command Back E1, data imprinting is possible in both A and RS modes, but the data transmission system imposes the following restrictions.

 In RS mode, the maximum continuous shooting speed is reduced by about one frame/sec. even when data imprinting is not activated. When data imprinting is set, the continuous shooting is reduced even further.
 - Reason: .Time is required to transmit data between the body and the Command Back E1. The continuous shooting speed differs depending on the film speed used. When ISO 64 film is used, the maximum continuous shooting speed is approx. four frames/sec.
- 12. Automatic Exposure Bracketing (AEB) is not possible in RS mode.
 - Reason: Because priority is placed on getting the fastest possible continuous shooting speed.

 When the camera is set to RS mode, AEB setting is impossible If AEB is set in A

 mode and then the camera is switched to RS mode, AEB is canceled. AEB remains
 canceled even when the main switch is returned to A mode.
- 13. In RS mode, electronic dial input is impossible while the shutter button is pressed halfway (SW1 ON) stopping the aperture down to the working aperture.
 - Reason: In this ready state, the camera will not accept main dial input such as changes to setting values (shutter speed, aperture value) or program shift, nor will it accept quick control dial input such as exposure compensation. AF activation with the AE lock button (CF-No. 4-1) is not possible in this state. Exposure compensation is possible only while the metering timer is operating.
- 14. In RS mode, the AF mode is automatically set to One-shot AF.
 - Reason: In RS mode, since the aperture is closed down to the ready state at SW-1 ON and stays closed down during the sequence, the camera cannot perform the rangefinding signal detection necessary for AI Servo AF operation. Accordingly, when RS mode is selected, the camera automatically sets the AF mode to One-shot AF.

 If AI Servo AF mode is set in A mode and then the camera is switched to RS mode, the AF mode and its display is automatically switched to One-shot AF. When the main switch is returned to A mode, AI Servo AF mode is restored. AI Servo AF mode cannot be selected while the camera is in RS mode.
- 15. The EOS-1N RS is not equipped with Depth-of-Field AE (DEP) mode.
 - Reason: Priority is placed on high-speed continuous shooting, DEP mode was removed to provide the necessary ROM capacity for high-speed control..

<MEMO>

Part 2

Technical Information

1. DOUBLE-SHIELDING SHUTTER

1.1 Introduction

The EOS-1N RS uses a pellicle mirror so light is passing through the lens and mirror and striking the shutter at all time when the lens cap is off. It needs even better light shielding than the EOS-1N, so a shutter with double shielding has been developed.

1.2 DOUBLE-SHIELDING SHUTTER

To provide the EOS-1N RS with light shielding equal to the EOS-1N, a mechanism that drops the second curtain half-way down the aperture during standby is used. The shutter unit's double-shielding lever is powered by the M2 motor on the mirror box through the charge unit. The second curtain is held in this position against spring pressure in the standby position. (Consequently, when the shutter unit is not installed in the camera, the second curtain is in the normal retracted position when charged.)

The EOS RT has full-aperture double shielding, but this was impossible in the EOS-1N RS due to design restrictions, but test have shown no problems even a four times the light intensity specified for cameras normally.

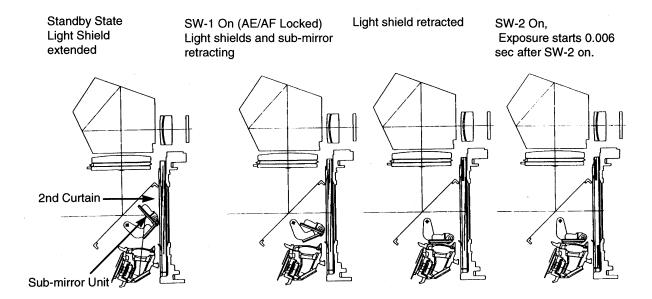


Fig.2-01 Double Shielded Shutter

2. FOCUSING SCREEN EC-R

2.1 Introduction

The EOS-1N RS uses the HC-N (New hard-coated) pellicle mirror, which divides the beam 65% to the film and 35% to the viewfinder. Compared to the EOS-1N which sends 63% of the light to the viewfinder, the RS has about one stop (actually -0.85) less light going to the viewfinder. Also affecting viewfinder brightness is the fact that, in the RS mode, the aperture stops down when SW-1 is closed instead of after SW-2.

Taking these facts into consideration, a New Lasermatte focusing screen, the Ec-R, was designed for the RT which is brighter than the Ec-CII, so the loss of viewfinder brightness is limited to only about 0.5 stops

2.2 FINDER TRANSMISSION RATIO

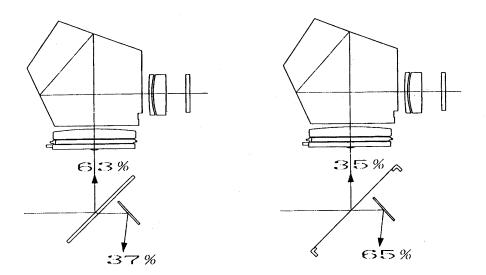


Fig.2-02 Viewfinder Comparison

2.3 Ec-R Vs Ec-CII Focusing Screens

The Ec-R gives a clear viewfinder with the EOS-1N Rs because:

- The Ec-R is about 0.5 stops brighter.
- The Ec-R's grain is not noticeable even with the lens stopped down to f/8 or f/11. The Ec-CII becomes noticeable at around f/4.

2.4 Ec-CII, Ec-R and Ec-K Compatibility with EOS-1 Series

1. Compatibility of three screens with the three EOS-1's is as follows:

Table 2-1 Camera / Focusing Screen Compatibility

	EOS-1N	EOS-1N RS	EOS-1
Ec-CII (Lasermatte)	V	№ 6	V № 7
Ec-R (New Lasermatte)	% 4	~	№ 5
Ec-K (Bright Lasermatte)	© 2	© 3	№ 1

A \checkmark indicates compatibility, while the @ indicates some limitation and the number following it indicates which of the following notes apply.

2. Notes of Limitations

1) Note 1: EOS-1 + Ec-K

Proper Exposure

Metering	Evaluative/	Partial	Spot
Lens	Center Weighted		
EF 85mm $f/1.2$ L USM EF 85mm $f/1.8$ USM EF 100mm $f/2$ USM EF 200 $f/1.8$ L USM	+1/3 stop	Not necessary	Not necessary
Other single focal length*	+2/3 stop	+1/3 stop	Not necessary
lenses		·	

- *: With single focal length lenses shorter than 85mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- 2) Note 2: EOS-1N + Ec-K

Proper Exposure

- a, For Fine-spot metering, compensation is not necessary.
- b. For other metering modes, metering error between -2/3 and +1/3 stop is likely. Make test exposures to establish the proper compensation.
- *: With single focal length lenses shorter than 85mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- *: The partial metering area on the screen is not the same size as the camera's partial metering area.
- 3) Note 3: EOS-1N RS + Ec-K

Proper Exposure

- a, For Fine-spot metering, compensation is not necessary.
- b. For other metering modes, metering error between -2/3 and +1/3 stop is likely. Make test exposures to establish the proper compensation.
- *: With single focal length lenses shorter than 85mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- *: The partial metering area on the screen is not the same size as the camera's partial metering area.

4) Note 4: EOS-1N + Ec-R (Standard screen for EOS-1N RS)

Proper Exposure

- a, For Fine-spot metering, compensation is not necessary.
- b. For other metering modes, metering error between -2/3 and +1/3 stop is likely. Make test exposures to establish the proper compensation.
- *: With single focal length lenses shorter than 35mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- 5) Note 5: EOS-1 + Ec-R (Standard screen for EOS-1N RS)

Proper Exposure

- a, For Spot metering, compensation is not necessary.
- b. For other metering modes, the following conditions apply:
 - 1. If the len's effective maximum aperture is larger than f/6.7, no compensation is necessary.
 - 2. If the len's effective maximum aperture is smaller than f/6.7, exposure compensation of -2/3 stop is necessary.
- *: With single focal length lenses shorter than 35mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- 6) Note 6: EOS-1N RS + Ec-CII

Proper Exposure

- a, For Fine-spot metering, compensation is not necessary.
- b. For other metering modes, the following conditions apply:
 - 1. If the len's effective maximum aperture is larger than f/6.7, no compensation is necessary.
 - 2. If the len's effective maximum aperture is smaller than f/6.7, exposure compensation of +2/3 stop is necessary.
- *: With single focal length lenses shorter than 85mm, all zoom lenses, or an FD lens with the adaptor is used, the error will be large and a separate hand-held meter is recommended.
- 7) EOS-1 + Ec-CII
 - a, For all metering modes, compensation is not necessary.
 - b. Only the spot-metering circle appears in the viewfinder.
 - c. The AF frames and partial metering circle do not appear in the viewfinder.

3. CUSTOM FUNCTIONS

EOS-1N Rs custom functions are the same as the EOS-1N except for CF #12.

CF#	Custom Function	Set No. & Function		
1	Auto reverse	0: Yes (High speed)rewind)		
		1: No (High speed rewind)		
		2: Yes (Silent rewind)		
		3: No (Silent rewind)		
2	Film leader after rewind	0: Wound into cartridge		
		1: Protruding from cartridge		
3.	Film Speed Setting	0: Automatic with manual override		
		1: Manual setting only		
4	AF operation / AE Lock:	0: AF operates on SW-1; AE locked by AE Lock		
		1: AF starts by AE Lock; AE locked by SW-1		
		2: AF start by SW-1; AF locked by AE Lock (No AE lock)		
5	Manual Tv and Av setting	0: TV set by Main Dial / TV by Quick Control Dial or by press-		
		ing exposure compensation (±) button, then using main dial		
		(with CF 11-0)		
		1: AV set by Main Dial / TV by Quick Control Dial or by press-		
		ing exposure compensation (±) button, then using main dial		
		(with CF 11-0)		
6.	Tv, Av and exposure	0: Input and Correction at 1/3 stop pitch		
	correction pitch	1: Input at 1 stop, correction at 1/3 stop pitch		
		2: Input and Correction at 1/2 stop pitch		
7	Electronic manual focusing	0: Manual focusing is possible without switching from AF to M		
	with Ring-type USM lens	1: Manual focusing is possible only by switching from AF to M		
8	Full Area Metering	0: Evaluative Metering		
		1: Center-weighted averaging Metering		
9	AEB exposure	0: Under - Correct - Overexposure		
	order and cancellation	1: Under - Correct - Overexposure (Not cancelled)		
		2: Correct - Under - Overexposure		
10		3: Correct - Under - Overexposure (Not cancelled)		
10	AF point superimposing	0: Yes		
44	Facusing point colortion	1: No		
11	Focusing point selection	0: Focusing Point Selector and Main Dial		
	·	1: Exposure Comp. (±) then Main Dial		
12	AE In focus Popper	2: Quick Control Dial or Exposure Comp. (±) then Main Dial		
12	AF In-focus Beeper	0: Normal - no beeper tone		
13	Spot Metering	1: Beeper beeps when lens is in focus.		
13	Spot wetering	0: Fine-spot Metering (Basis sensor)		
14	Flash Reduction	1: AF Focus Point Spot metering (A0 - A4 segments)		
14		0: Automatic		
	at high EV	1: None		

4. ERROR CODES

If an error occurs, the camera will go into the inhibit mode and the bc mark will flash. In this condition, it is possible to determine the source of the error by simultaneously pushing the Battery Check and Clear buttons. An error number will be displayed in the frame counter frame. As with the original EOS-1, only the most recent error is displayed.

Note: Entry Numbers 6*, &*, and 9* are different from the EOS-1N.

	# Customs Funds	Drobable Course
Error		Probable Cause
None	Unspecified error	Low battery(or improper Inhibit voltage adjustment)
		2. System connector VCHK line, open, short, poor contact
		3. MPU, FPU failure
1	Failed battery check immed-	Exhausted battery
	iately after mirror up	System connector contact failure
2	Failed battery check after ex-	Exhausted battery
	posure, before winding start.	System connector contact failure
3	No E1 when batt. installed, or	1. Failed DC/DC Convertor
	an operating switch pressed	2. Failed LCD Driver, Reset IC
4	Lens/Body Communications Error	Lens' Diaphragm Open switch failure
		2. Lens' Diaphragm Open switch chattering.
	÷ .	3. Lens power circuit defective.
		4. Body's "Lens Switch" or wiring defective,
		5. T-MOS-IC defective
5	Battery Check Load error	1. RBAT1, 2, or 3 open
	_	2. FPU defective.
6*	Sub-mirror doesn't retract	Phase board or phase board leads defective
	at release	2. Defective sub-mirror mechanism
		*: Error occurs if phase change not received in time.
7*	Sub-mirror doesn't extend	Phase board or phase board leads defective
		2. Defective sub-mirror mechanism
		*: Error occurs if phase change not received in time.
8	Shutter Operation Trouble	1. CN2 Switch shorted.
	·	2. CN2 Switch doesn't turn on.
	·	3. Shutter won't hold charge
		4. Damaged shutter blades.
9*	Front Panel Condition NG at	1. Shutter unit defective
	power up	2. Defective sub-mirror mechanism
	Ex: Sub-mirror/Shutter Charge	
	Mechanism won't charge	
10	Shutter Magnet Defective	1. Magnet defective
		2. FPU defective.
		3. MgMON(itor) line from Shutter to FPU open.
11	MPU-BASIS Comm. Error-1	MPU,FPU,I/O, or BASIS defective
12	MPU-BASIS Comm. Error-2	MPU,FPU,I/O, or BASIS defective
	C D/ (C/C CC/////// E//C/ E	,,,,

Part 3

Repair Information

1. PREPARATIONS FOR REPAIR

Preparations for repair are essentially the same as the EOS-1N and Power Drive Booster E-1. Refer to the EOS-1N Service Manual (CY8-1200-119) for items not included in this manual.

1.1 BUZZER KILLER SHORT PAD

The EOS-1N has a Buzzer position on the Main Switch, but it is replaced by the RS mode on the EOS-1N RS. In the RS, the buzzer is disabled by shorting SP-2 on the main flex just under the top deck LCD.

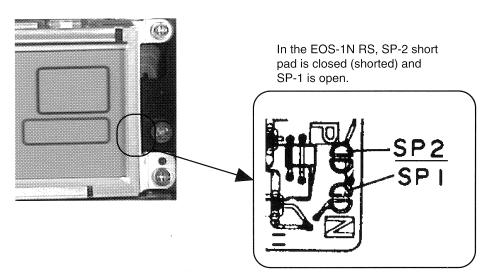


Fig. 3-00 Short Pad

1.2 CURRENT CONSUMPTION STANDARD

The current consumption product standards and actual values are listed below.

Lens:	EF50mm/1.8		
Power source:	Constant voltage source 12.8 V, 1.7Ω		
		Product standard	Measured values
LOCK		75μΑ	about 40 μA
Standby		150μΑ	about 50 μA
SW1 ON		400mA	about 100mA

1.3 New Tools for the EOS-1N RS

The tools and expendables for this camera are essentially the same as the for the EOS-1N and Power Drive Booster E-1. One new tool is necessary.

New	Test Equipment	Part No.	Adjustment
•	EOS-1N RS Spanner	CY9-6151-000	Removing Power Drive Booster com-
			ponent from EOS-1N RS body.

When using this tool, do not overtighten. See page 3-3 for details.

<MEMO>

2. ASSEMBLY AND DISASSEMBLY

2.1 Power Drive Booster (PDB) Section Removal

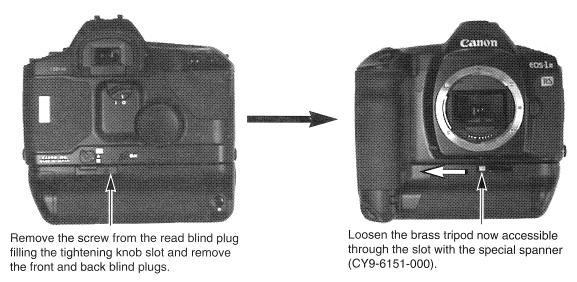


Fig. 3-01 PDB Removal

1) Removal Method

- 1. Remove the screw from the rear blind plug filling the tightening knob slot and remove the front and back blind plugs.
- 2. Loosen the brass tripod nut now accessible through the slot with the special spanner (CY9-6151-000).

2) Reassembly

Tighten the nut, being careful not to overtighten it.

CAUTION Power Drive Booster Nut Tightening

Use the special spanner (CY9-6151-000) to tighten the nut. Overtightening can cause deformation leading to changes in flange focal plane distance.

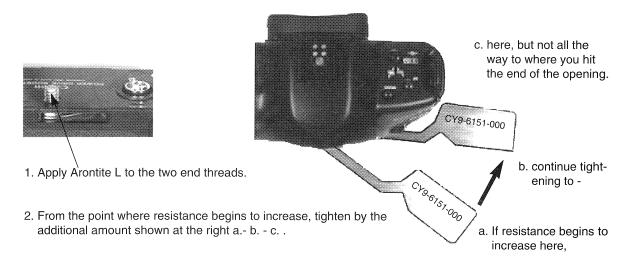


Fig. 3-01a Nut Tightening Procedure

2.2 EXTERNAL COVERS REMOVAL

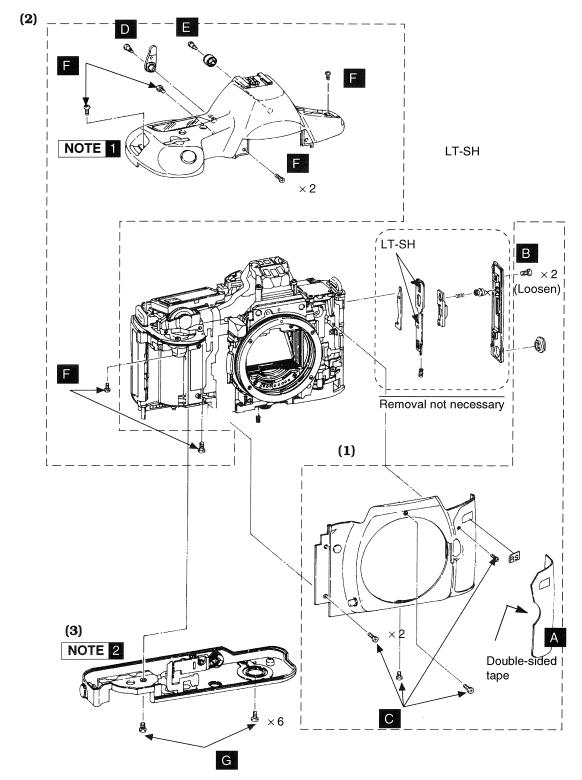


Fig. 3-02 External Covers Removal

Disassembly Procedure

- 1. Apron (Front Cover) Unit
 - 1) Remove the "leather" (A).
 - 2) Loosen the two latch cover screws (B), remove five screws (C) and the apron.
- 2. Top Cover Unit
 - 1) Remove the eyepiece shutter lever screw (D), and remove the lever.
 - 2) Remove the eyesight correction dial screw (E), and remove the lever.
 - 3) Remove eight screws (F), unsolder the connecting flex and eleven leads. The top cover can now be removed. Unsolder the three leads (marked with an asterisk below) from the front panel also.

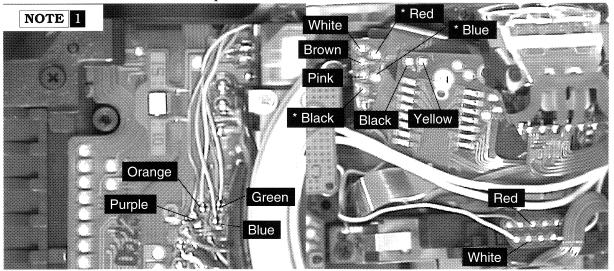


Fig. 3-03 Top Cover Leads - 1

Fig. 3-04 Top Cover Leads - 2

- 3. Bottom Cover Unit
 - 1) Unsolder the comb connector.
 - 2) Remove the seven screws (G) holding the bottom cover.



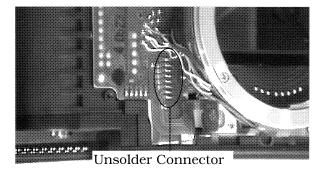


Fig. 3-05 Bottom Cover Soldering

Assembly Procedure

Check grounding between body and bottom cover.

2.3 FRONT PANEL REMOVAL -1

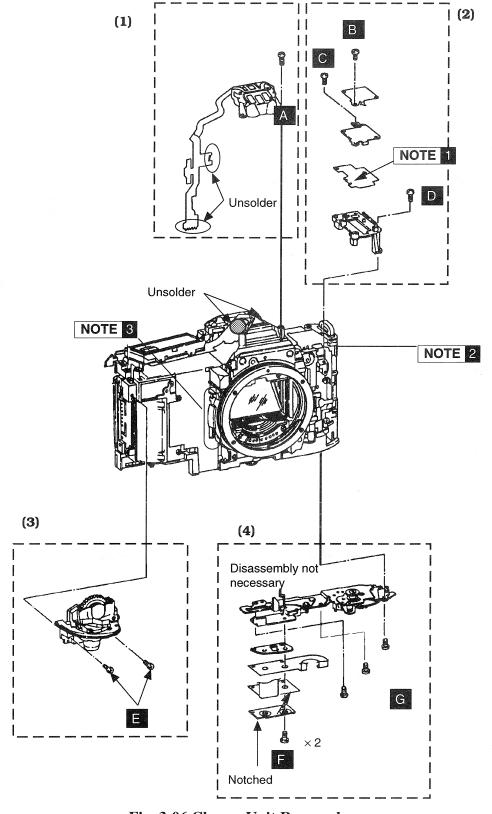


Fig. 3-06 Charge Unit Removal

Disassembly Procedure

1. Superimpose Unit

Unsolder comb connectors at two positions shown, remove the two screws (A) holding the Superimpose Unit and remove the unit.

2. Mode Base

- 1) Remove the screw (B) holding the CD Flex.
- 2) Remove the screw (C) from the Mode Switch Base 1 and remove the base.
- 3) Unsolder four leads from the CD Flex and the PC terminal twin-lead.
- 4) Remove the screw (D) from the Mode Switch Base2 and remove the base.
- 5) Unsolder the CD Flex comb connector and the BACK Switch thru-hole pins

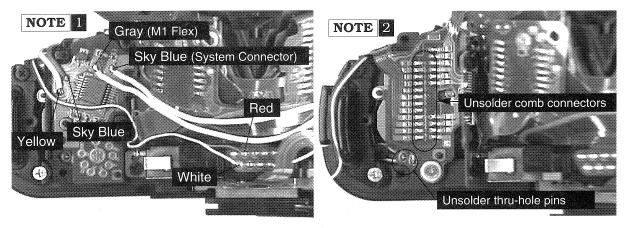


Fig. 3-07 Mode Switch Leads

Fig. 3-08 Mode Switch Soldering

3. Electronic Dial Unit

Remove the two screws (E) from the Electronic Dial Unit. Unsolder five lead wires and one shield and remove the Electronic Dial Unit.

4. Charge Unit

- 1) Remove the two connecting screws (F) between the Main Flex and the AF Unit.
- 2) Unsolder the Charge Unit comb connector.
- 3) Remove three screws (G) and remove the Charge Unit.

5. Back Cover Unit

Remove the back cover unit.

6. Main Flex

- 1) Unsolder comb connector (I) to Lens sensor switch.
- 2) Remove four leads from the Main Flex (J), and three leads at (K), and one gray lead to the Eyepiece Unit (G). Remove the Main Flex.

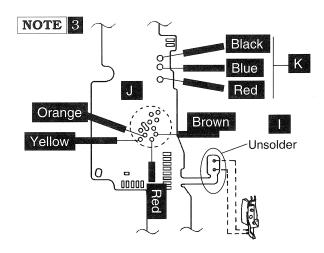


Fig. 3-09 Main Flex Soldering

2.4 FRONT PANEL REMOVAL-2

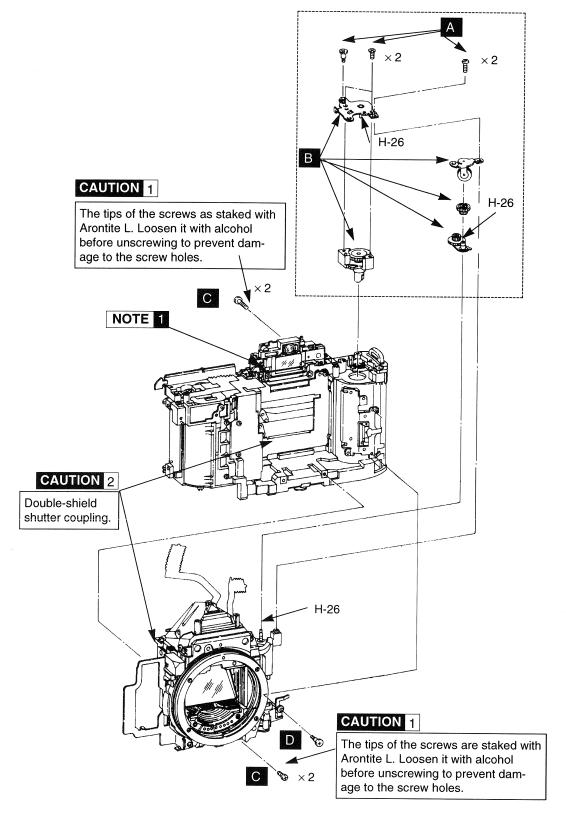


Fig. 3-10 Mirror Box Removal

Disassembly Procedure

- 1. Rewind Gear Train
 Remove the five fork holder screws (A) and the gear train parts (B).
- 2. Mirror Box Remove the four screws (C) and one (D) and remove the mirror box.

Assembly Procedure

- 1. To check for correct double shielding (2nd curtain partially extended during standby) and the check proper coupling of the double-shielding levers, remove the Wing and pellicle mirror when installing the mirror box. levers
- 2. When reinstalling the four screws (C), apply Arontite L to the tips just before tightening them.

CAUTION 1

If the screws (C) have been loosened, replace the screws with new screws.



After installing the mirror box, apply Silicone Bond KE347B to the joint between the mirror box and body.

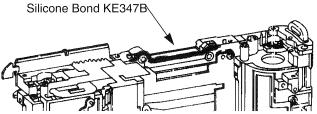


Fig. 3-11 Body/Mirror Box Seal

CAUTION 2

Both the Shutter Unit and Charge Unit must be charged before they are installed. Also, the double-shielding coupling parts (A) of the Shutter Unit and Shutter Drive Unit must be correctly mated. If all parts are correctly coupled, the second curtain will be extended down into the aperture to act as double shielding.

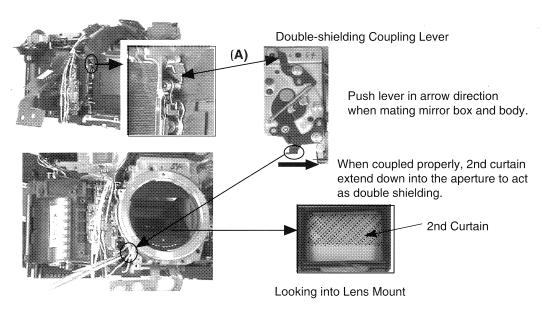


Fig. 3-12 2X Shield Assembly

2.5 MAIN FLEX REMOVAL

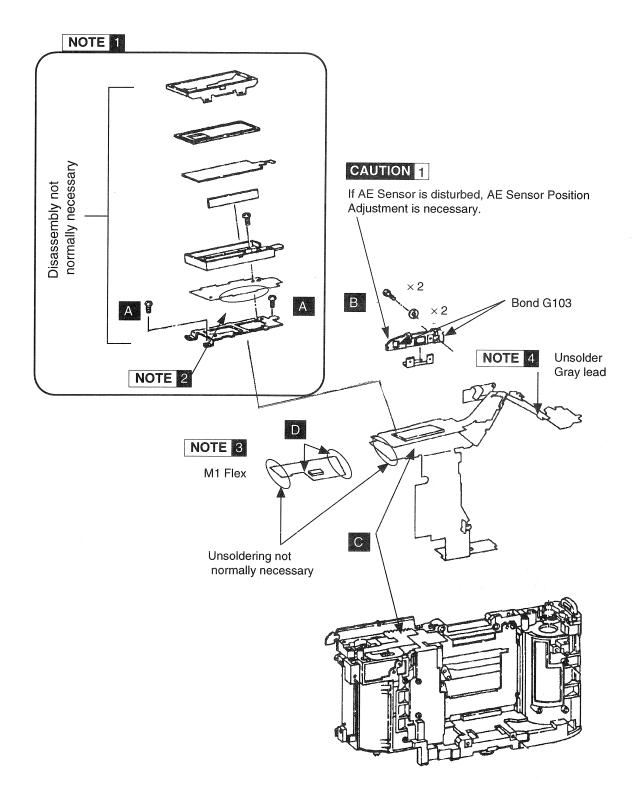


Fig. 3-19 Top-deck LCD (OLC) Removal

Disassembly Procedure

- 1. Top-deck LCD (OLC) Unit Removal (Disassembly not normally necessary)
 - 1) Remove the shielded lead to the illumination panel (EL).
 - 2) Remove the three screws (A) holding the OLC and lift it up.

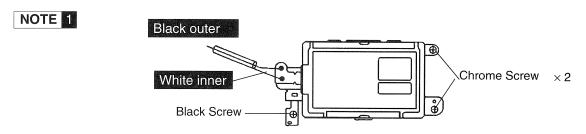


Fig. 3-14 Illumination Panel (EL) Lead Removal

2. Electronic Dial Leads Removal

Remove the five normal and one shielded lead from the Electronic Dial Unit.

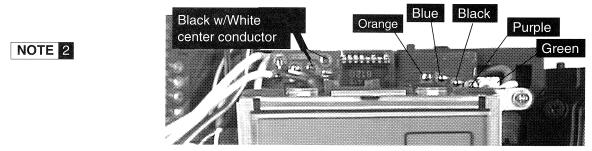


Fig. 3-15 Electronic Dial Lead Removal

3. Metering Sensor

Remove the two screws (A), carefully place a flat blade screwdriver between the sensor holder and the body and pry the holder off.

- 4. M1 Flex leads, Shutter/DC-DC Convertor (SDC) L Flex and G Flex Connections
 - 1) Unsolder the connection between the SDC Flex and the Main Flex (B), and between the G Flex and Main Flex (also B) .
 - 2) Unsolder the seven leads on the M1 Flex (C) and and one lead from the SDC Flex.

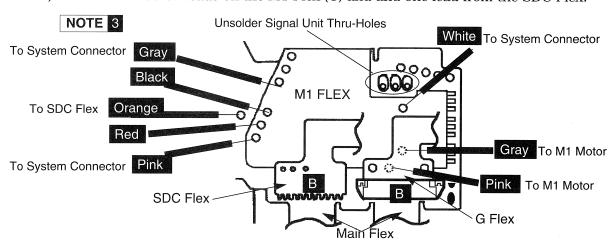


Fig. 3-16 M1 Flex Connections

2.6 Shutter Unit Removal

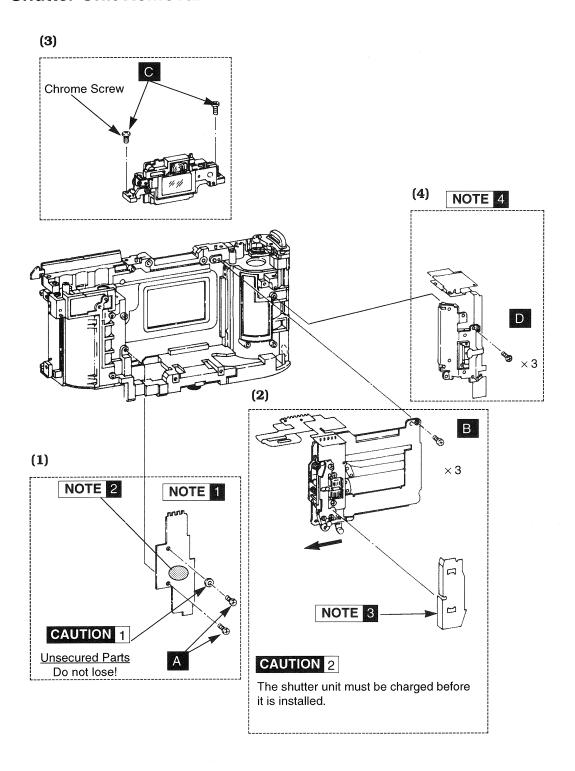


Fig. 3-17 Shutter Removal

Removal Procedure

DC/DC Connector
 Unsolder three leads from the DC/DC Convertor, and the SDC Flex connection.
 Remove two screws (A) and remove the DC/DC Convertor.

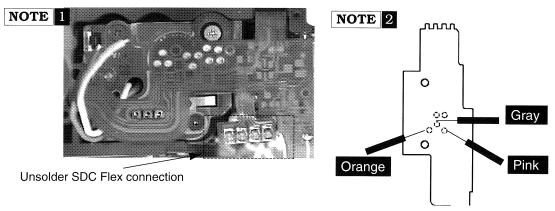


Fig. 3-18 SDC Flex Soldering

Fig. 3-19 DC/DC Leads

- 2. Shutter Unit
 - Remove three screws (B) and remove the shutter unit.
- 3. Eyepiece Unit
 - Remove two screws (C) and remove the eyepiece unit.
- 4. DX Unit

Remove two screws (d) and remove the DX unit.

Reassembly Cautions

Insulating Tape Placement

NOTE 3

Install insulating tape as shown to prevent breaking the X sync lead and dust entry.

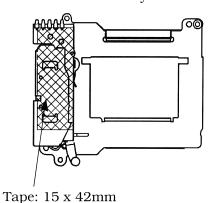


Fig. 3-20 Shutter Tape

NOTE 4

To prevent shorting of the M2 lead, apply insulating tape as shown below (8 x 12mm).

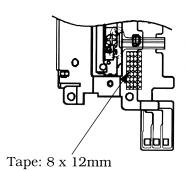


Fig. 3-21 DX Tape

2.7 Film Transport Parts Removal

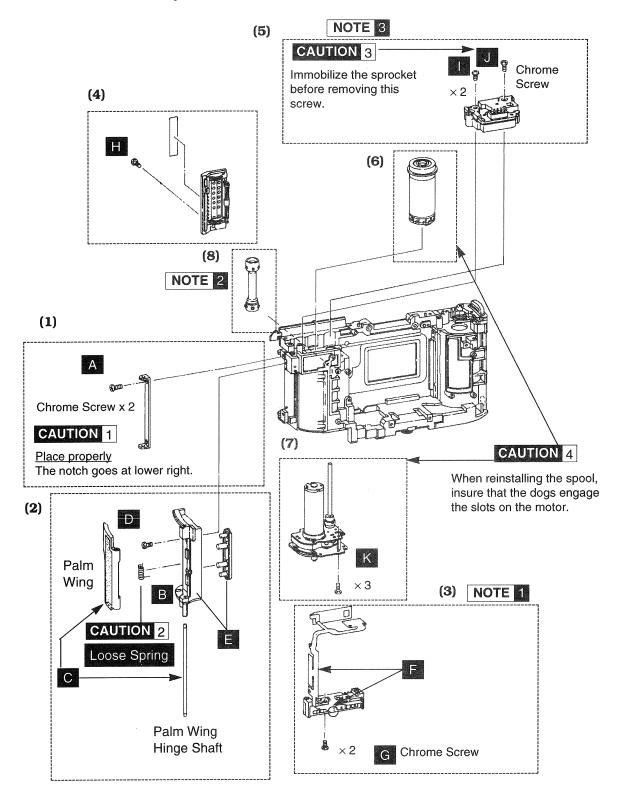


Fig. 3-22 Film Transport Parts Removal

Removal Procedure

1. Back Cover Hinge Bracket

Remove two screws (A) and remove the back cover hinge bracket.

- 2. Palm Wing
 - 1) Unhook the spring (B) and remove the shaft, spring and palm wing (C).
 - 2) Remove two screws (D) and remove the switch panel and switch rubber (E).
- 3. System Connector Unit

Unsolder the Thru-hole pins at two positions (F), remove two screws (G) and remove the system connector unit.

4. Roller Holder Unit

Remove the two screws (H), and remove the roller holder unit.

5. Signal Unit

Remove the two screws (I) and the sprocket screw (J), and remove the signal unit.

6. Spool

Move the AL guide holder out of the way and remove the spool.

7. Film Advance Unit

Remove the three screws (K) and remove the film advance unit (winding motor).

8. Sprocket

The sprocket is now free. Remove it.

Reassembly Cautions

1. Tape Installation

To prevent possible shorting to the base cover, cover the Reset switch connections with insulating tape after soldering them.

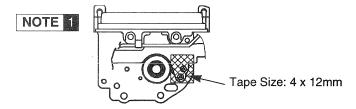


Fig. 3-23 Reset Switch Tape

2. Lubrication

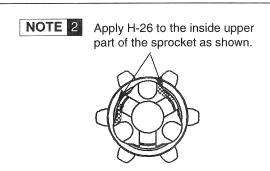


Fig. 3-24 Sprocket Lube (H-26)

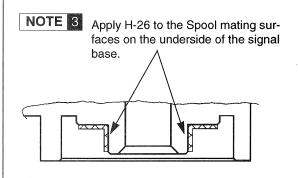


Fig. 3-25 Signal Base Lube (H-26)

2.8 Mirror Box Disassembly - 1

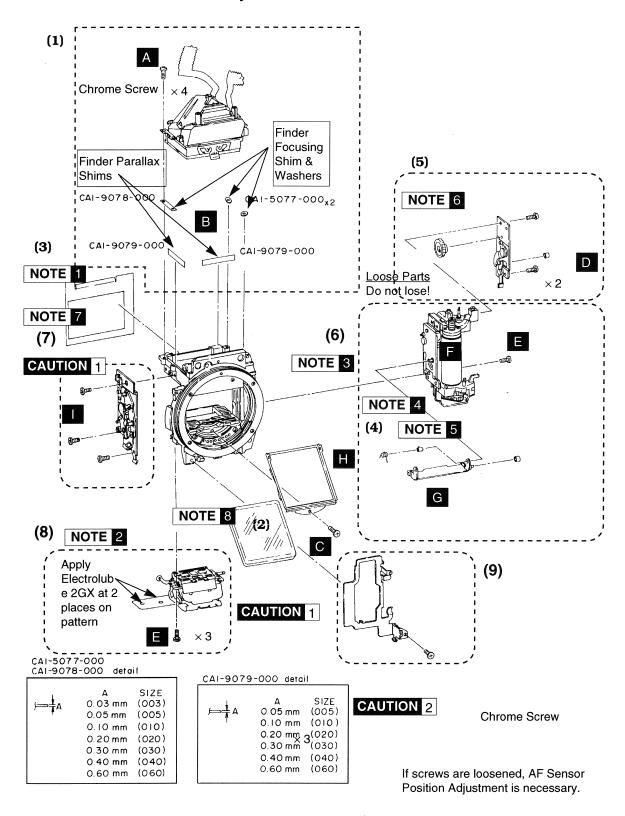


Fig. 3-26 Mirror Box Disassembly - 1

Removal Procedure

1. Pentaprism Unit

Remove four screws (A), the pentaprism, and the finder focus and finder parallax shims and washers (B).

2. Pellicle Mirror

Remove the screw (C) and remove the pellicle mirror.

3. Light Shield

The light shield is bonded in place. Loosen it with alcohol before removing.

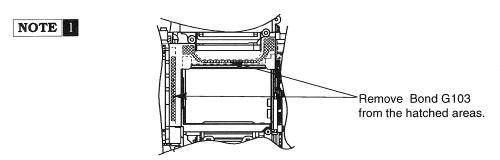


Fig. 3-27 Light Shield Bonding

- 4. Remove the sub-mirror drive spring, being careful not to lose the collar.
- 5. Sub-mirror Mechanism Remove the sub-mirror mechanism, being careful not to lose the mirror cam gear.
- 6. M2 Motor Unit Remove screw (E) and M2 motor unit (F). At this time, sub-mirror unit (G) and pellicle mirror frame (H) can also be removed.
- 7. Shutter Drive Unit Remove four screws (I) and the shutter drive unit.
- 8. AF Unit (If removed, adjustment is necessary)
 Unsolder the connector (see drawing) and three screws (E), and remove the AE unit>

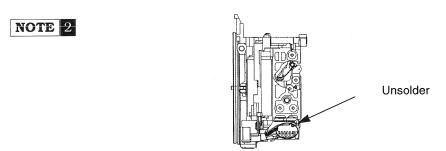


Fig. 3-28 AF Unit Desoldering -2

9. Wing

Remove two screws (D) and remove the wing.

Assembly Cautions

- 1. If the AF unit is disturbed, the AF Sensor Positioning Adjustment is necessary (See the mechanical adjustments section.
- 2. Lubricant Application

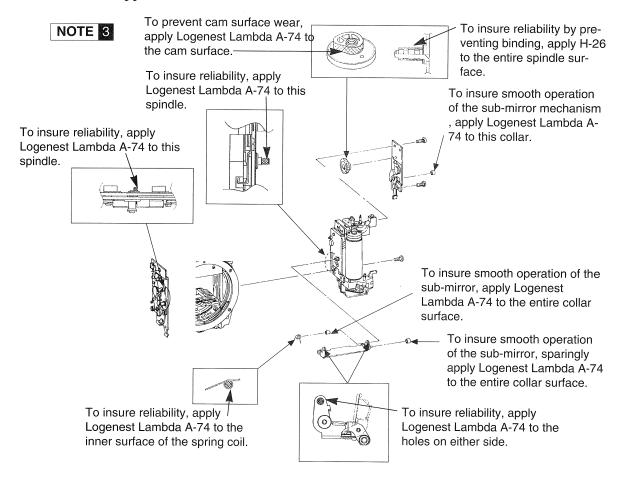


Fig. 3-29 Mirror Box Lubrication - A

3. When installing the sub-mirror, insure that the collar and spring are positioned as shown.

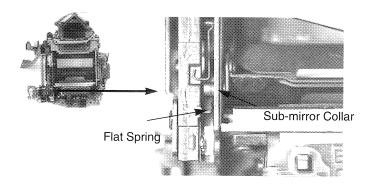


Fig. 3-30 Sub-mirror Installation

4. Sub-mirror Spring Position

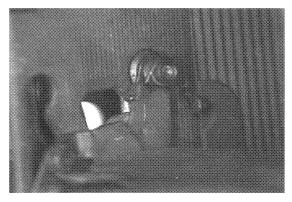
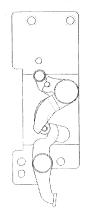


Fig. 3-31 Sub-mirror Spring

5. Sub-mirror Mechanism Installation Set the mechanism as shown before tightening the screws.



After installation, insure that the sub-mirror retracts when the cam gear turns.

6. Attach the mirror box light shield.

Fig. 3-32 Lever Position

Mirror Box Light Shield

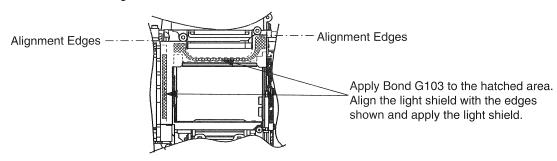
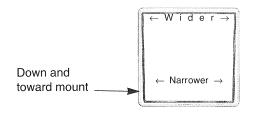


Fig. 3-33 Light Shield Bonding

7. Pellicle Mirror Positioning



When the pellicle mirror is installed, it must be installed correctly. The outer frame is rectangular, but the mirror is slightly narrower at the bottom than at the top.

Install the mirror after the mirror box is installed in the body.

Fig. 3-34 AF Unit Desoldering -2

2.9 Mirror Box Disassembly-2

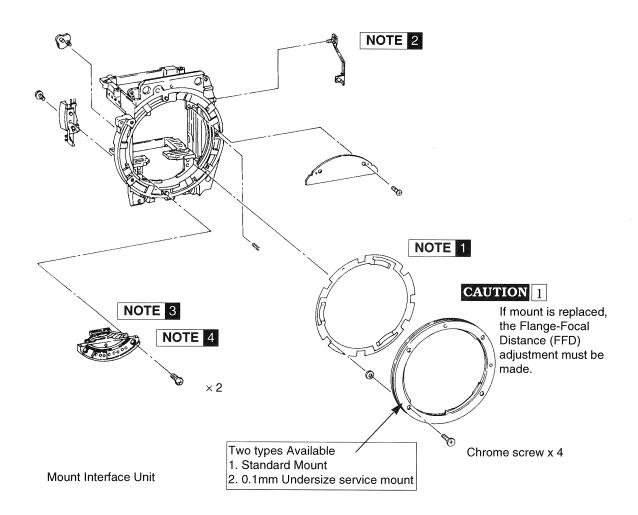


Fig. 3-35 Mirror Box Disassembly - 2

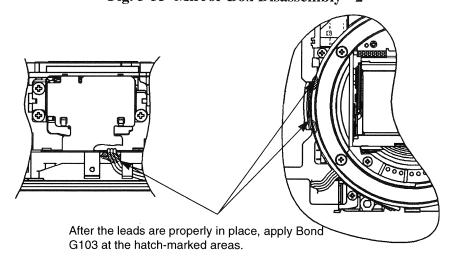


Fig. 3-36 Lead Staking 3-20

Removal and Assembly Cautions

There are no unusual procedures for removal or reassembly. Use of lubricants and lead dress are indicated on this page.

1. Lubricants

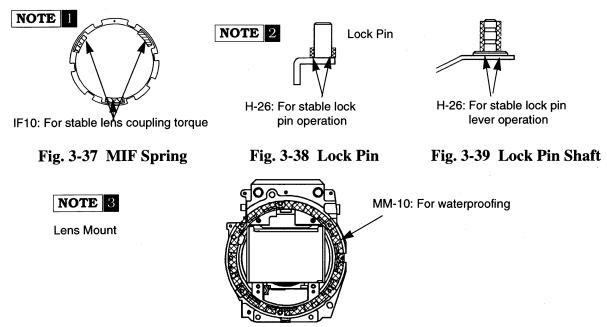


Fig. 3-40 Mount Oil Retardant MM-10

2. Lead Dress

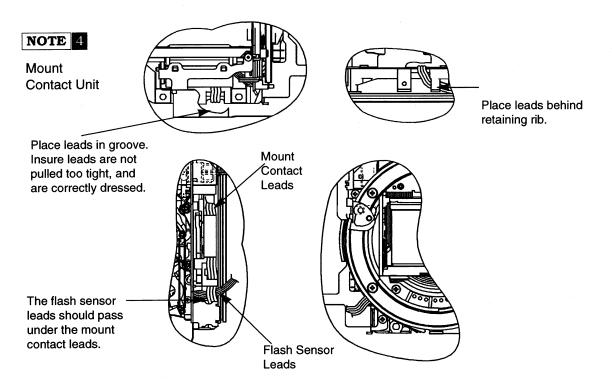


Fig. 3-41 Lead Dress **3-21**

2.10 Bottom Cover Unit Disassembly

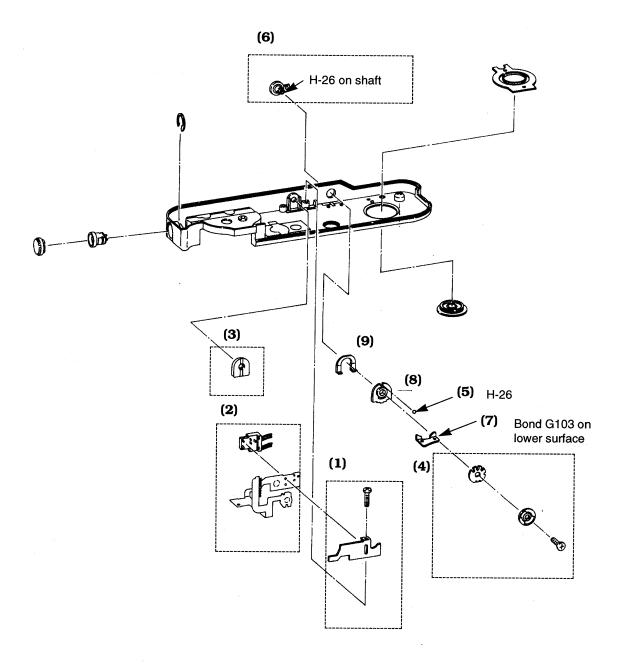


Fig. 3-42 Bottom Cover Unit Disassembly

2.11 Back Cover Disassembly

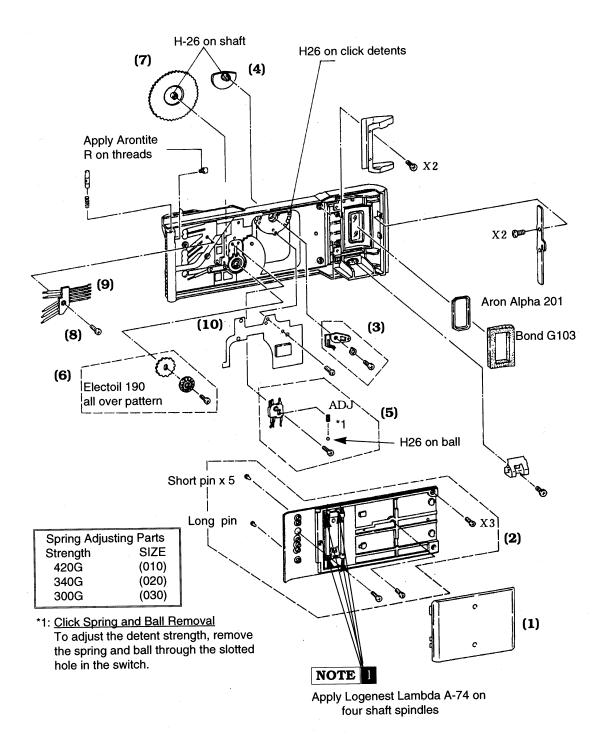


Fig. 3-43 Back Cover Disassembly 3-23

2.12 Charge Unit Disassembly

When changing parts, lubricate the numbered points with Logenest Lambda A-74.

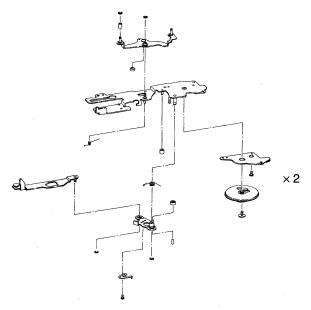
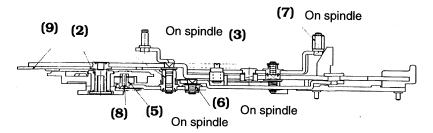


Fig. 3-44 Charge Unit Disassembly



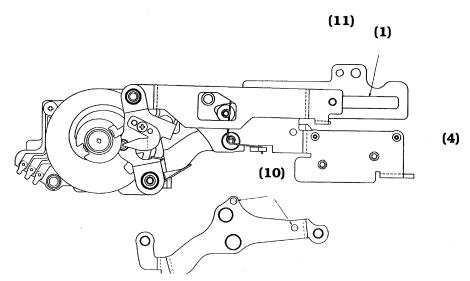
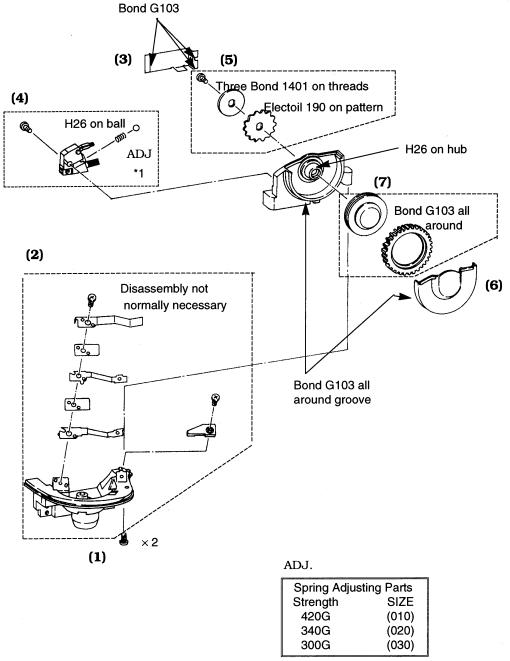


Fig. 3-45 Charge Unit Lubrication

2.13 Electronic Dial Unit Disassembly



^{*1:} Click Spring and Ball Removal
To adjust the detent strength, remove
the spring and ball through the slotted
hole in the switch.

Fig .3-46 Electronic Dial Unit Disassembly

2.14 Shutter Unit Disassembly

CAUTION 1 Disassembly and Assembly must be performed in the charged state.

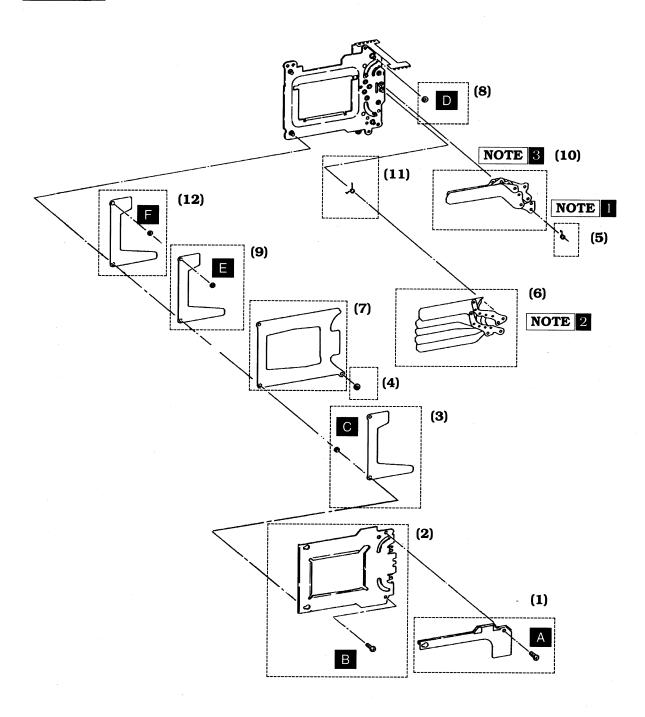


Fig. 3-47 Shutter Unit Disassembly

Removal Procedure

1. Light Shield

Remove screw (A) and remove the light shield.

- 2. Front Cover
 - Remove screw (B) and remove the front cover plate
- 3. Follow the number sequence to complete disassembly.

Most of the shutter parts are quite thin and they are not stocked as spare parts. Be careful.

Assembly Cautions

NOTE 1 1st Curtain Arm Spring Installation

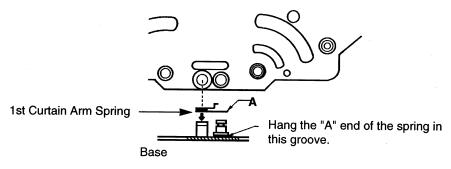


Fig. 3-48 1st Curtain Arm Spring

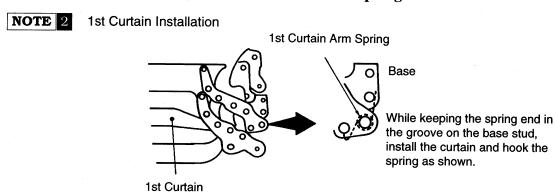


Fig. 3-49 1st Curtain

NOTE 3 2nd Curtain Arm Spring Installation

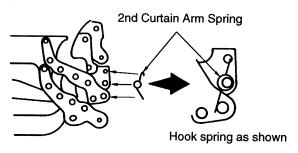


Fig. 3-50 2nd Curtain Arm Spring

3. ADJUSTMENTS

3.1 Release Stroke Adjustment

CAUTION

The production release button for the EOS-1N series cameras is a single part combining the button, shaft and adjusting shaft. Replace it with the separate parts when adjustment is necessary. The production release button is equivalent to the standard (005) size adjusting part.

Purpose:

The release button's initial position and stroke can be adjusted, within limits, to suit the individual user. *Adjustment is not possible without removing the top cover.*

RELEASE STROKE ADJUSTMENT:

Item	Standard	Adj. Limits
Initial Position	1.0mm/-	0.5to 2.0mm
Initial Position > SW1 On	0.6mm/80g	0.4 to 0.8mm
SW1 > SW2	0.3mm/350g	Not adjustable
SW2 overstroke	0.2mm/-	Not adjustable

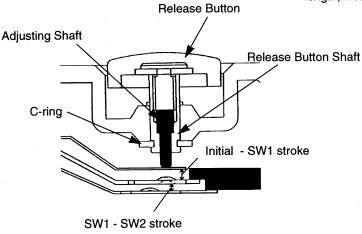
ADJUSTMENT:

- 1. Remove the top cover, and remove the C-ring holding the stock release button
- 2. Install Release Button (CY1-1709) Release Button Shaft (CY1-1710) and an adjusting shaft (CY1-1338-000-XXX) and reinstall the C ring.
- 3. To change the initial to SW1 stroke, separate the release button from the release button shaft, remove the adjusting shaft and install one to give the required stroke.
- 4. Turn the release button clockwise so it is firmly attached to the shaft.
- 5. Install the assembly in the top cover.

Release Shaft Replacement

To increase the button height, install a shaft with a longer [A] dimension. To increase the SW1 stroke length, install a shaft with a longer [B] dimension.

Adjusting Shaft(CY1-1338)



	Α	В	SIZE	
АВ	B 1.0mm	2.8mm	(001)	
		3.0 mm	(002)	
نــــا		3.2 mm	(003)	
		2.8 mm	(004)	
	1.5mm	3.0 mm	(005)	Std.
		3.2 mm	(006)	
	2.0mm 2.5mm	2.8 mm	(007)	
		3.0 mm	(008)	
		3.2mm	(009)	
		2.8 mm	(010)	
:		3.0 mm	(011)	
		3.2 mm	(012)	

Fig. 3-52 Release Stroke Adjustment

3.2 Mirror Angle Adjustments

Main Mirror: 45° & Sub Mirror: 41.5°

This adjustment is necessary whenever the Shutter Drive Unit, M2
Motor Unit or pellicle mirror frame has been disturbed.

PURPOSE:

To adjust the vertical and horizontal angles of the main (45°) and sub (41.5°) mirrors.

STANDARDS:

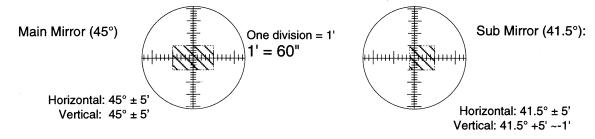


Fig. 3-53 Mirror Adjustment Standards

Tools:

Universal Type 90° Collimator -3 Sub-mirror Gage (41.5°) (EOS-5, 10) Main Mirror Gage (all EOS Cameras) 1.3mm Hex Key

PREPARATION:

Set the zero positions with the main and sub mirror standard gages prior to making the adjustments.

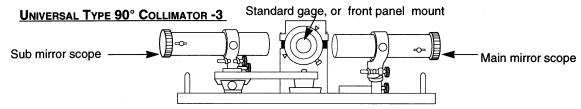


Fig. 3-54 90° Collimator Adjustment

Each reference gage is marked with compensation data, since it is impossible to make gages which are exact. Be sure to include the correction when aligning the gages. (Note: Vertical and horizontal adjustments are reversed in the 1991 tool manual.)

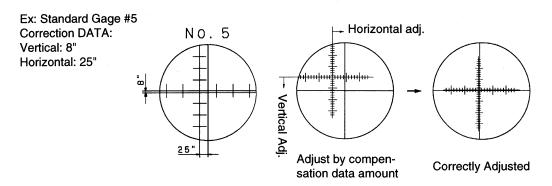


Fig. 3-55 Collimator Chart Adjustment

Adjustment:

Definitions: MM: Main Mirror; SM: Sub-mirror

ADJUSTING POINTS:

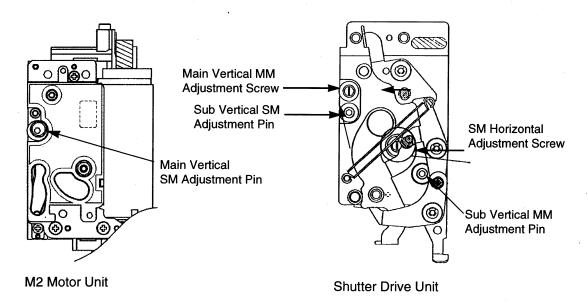


Fig. 3-56 Mirror Angle Adjustments

ADJUSTMENT METHOD:

CAUTION

When adjusting the Main Vertical SM Adjustment Pin, do not insert the allen wrench too far because it may hit the phase board located behind the pin.

- 1. Sub Mirror (41.5°) Vertical and Horizontal Adjustment
 - Alternately adjust the vertical and horizontal adjustments with the main and sub adjustments as outlined below.
 - 1) Adjust the SM horizontal adjustment screw to $41.5^{\circ} \pm 0$, then reset to 3' to 5' (Ideal 4') on the collimator scale.
 - 2) Adjust the main vertical SM adjustment pin to 0', then readjust the SM horizontal adjustment screw to 0'.
- 2. Main Mirror (45°) Vertical Adjustment

Adjust the SM horizontal adjustment screw to adjust the main mirror to \pm 0', then adjust the Main vertical MM Adjustment Screw to bring the main mirror vertical adjustment into tolerance.

Normally the Sub vertical MM Adjustment Pin needs no adjustment, except when the main mirror cannot be brought into tolerances without it.

3.3 AF Sensor Vertical Position

CAUTION This adjustment is required if the AF Sensor Unit is disturbed. (The horizontal adjustment is electrical.) Do after mirror angle adjustment.

PURPOSE:

This adjustment aligns the center of the AF sensor with the optical axis.

STANDARD:

The image of the H-BASIS sensor must fall within the AF Frame, and should be as close as possible to being exactly centered.

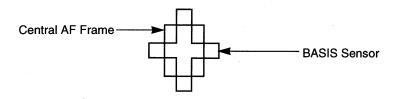


Fig. 3-57 BASIS Standard Position

Tools:

EF 50mm f/1.8 lens (production lens); Strong penlight or illuminator

PREPARATION:

To eliminate adjustment errors, place the 50/1.8 on another EOS-1. Set the lens to infinity. Set the camera in manual and set the aperture to f/8 with the electronic input dial. Push the D-o-F button and remove the lens while holding the button in.

ADJUSTMENT:

- 1. Install the AF sensor unit in the front panel unit with the pentaprism and focusing screen installed. Strong, point light source
- 2. Install the stopped-down lens, set to infinity (∞) .
- 3. Shine a small, powerful, spot of light into the bottom of the AF sensor unit. Looking into the lens the outline of the sensor should be superimposed on the focus mark as shown. Adjust the sensor so it is centered in the AF Frame.
- 4. After adjustment, tighten the screws just enough to hold the position and stake with Three Bond 1401C. (Tightening too much may break the sensor base.)

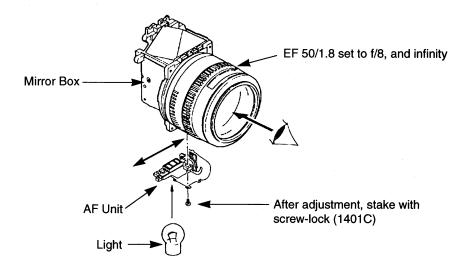


Fig. 3-58 BASIS Positioning

3.4 VIEWFINDER PARALLAX ADJUSTMENT

CAUTION Do after Mirror Angle Adjustment.

Purpose:

To insure 100% viewfinder coverage, adjust the center of the viewfinder image to correspond with the center of the film aperture.

STANDARD:

Center deviation: 0±0.1mm

The viewfinder image must be completely within the film aperture, and should be centered.

Tools:

Ground glass Parallax Chart (Local Fabrication) EF 50mm f/1.8 Tool lens

PREPARATION:

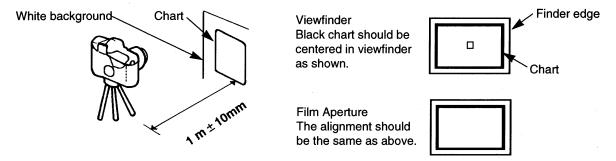


Fig. 3-59 Finder Parallax Set-up

ADJUSTMENT:

- 1. Remove the focusing shims from the front panel being replaced and tack them in place in the new front panel
- 2. Install the pentaprism unit and push it forward and to the right. Tighten the screws.
- 3. Install the front panel in the camera body. Attach the lens and align so the black chart falls just within the viewfinder. and align check finder parallax as shown above. Open the shutter at "bulb" and check that the entire black chart is within the film aperture. Install different shims if necessary.
- 4. Bond the washers in place with G103.

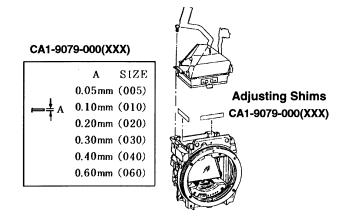


Fig. 3-60 Finder Parallax Shims

3.5 SHUTTER CURTAIN TRAVEL TIME ADJUSTMENT

CAUTION If the 2nd Curtain Travel Time standard cannot be met, change the unit. There is no 1st curtain adjustment. If the standard is not met, change the unit.

Purpose:

This adjustment fine tunes the 2nd curtain travel time to insure proper operation of the 1/8000s shutter speed.

STANDARD:

Item	Curtain Travel Time	Remarks
1st Curtain	2.2 ± 0.2ms	Replace if limits cannot be met.
2nd Curtain	2.2 ± 0.2ms	Adjustable
1st /2nd Difference	0 ± 0.02ms	

<!!> Due to the very fine tolerances necessary to insure 1/8000s shutter accuracy, test equipment accuracy is very important. Take an average of several units from stock to establish your shop standard.

Tools:

FS-5300 Shutter Tester or EF-500 AE Tester, Power Supply, 2nd Curtain Spanner (CY9-6147-000).

(Note: EF-8000 is not suitable because it cannot measure curtain travel time unless a lens is installed).

PREPARATION:

- 1. Charge the shutter.
- 2. Install the shutter under test in a dummy body and attach a 3 volt power supply as shown.
- 3. Place the test body on the tester.

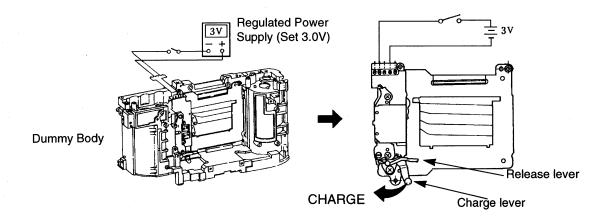


Fig. 3-61 Shutter Preparation

1. Release the 1st curtain with the release lever, and check the travel time. (Change the unit if not within tolerance.)

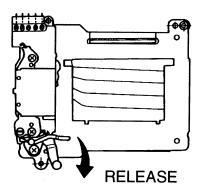


Fig. 3-62 Shutter Release

- 2. Turn the power off to let the 2nd curtain run. Check the travel time.Repeat (1) and (2) as necessary.
- 3. Remove the shutter from the body. If necessary, adjust the 2nd curtain gear a small amount with the special spanner, reinstall and recheck the curtain travel time. Repeat as necessary.
- <!!> The gear shaft is eccentric so direction of rotation is not directly related to time change.
- <!!> If the curtain travel time cannot be brought within tolerances, change the shutter unit.

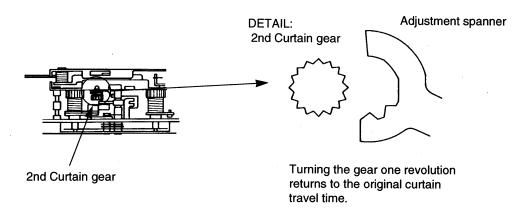


Fig. 3-63 Shutter Spanner

3.6 FLANGE to FOCAL PLANE DISTANCE ADJUSTMENT

CAUTION Necessary if mount is changed, - use as few shims as possible.

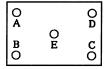
The main **pellicle mirror must be removed** to do this procedure.

PURPOSE:

To adjust the flange to pressure plate distance to the standard, 44.14mm.

STANDARD:

44.<u>15</u> + 0.02mm to Outer Rails (with optical flat) 44.<u>18</u> + 0.02mm to center of pressure plate 0.030 ± 0.015mm Pressure Plate center depression (Record reading for electronic AF adj.)



When measured off of the pressure plate with the back cover closed, E should be 0 to 5µm greater than A,B, C, or D. (It is permissible for one corner to be up to 5µm greater than E.)

Aperture (& Pressure Plate)
Measurement Points

Fig. 3-64 Pressure Plate Measurements

Tools:

Dial Gage w/ 2mm adaptor ring Optical flat (for Block gage)

Block gage (44.14mm or 42.14mm) Optical flat (for camera aperture)

Note: A new 0.001 mm Dial Gage is now available (CY9-7094-000) for very accurate FFD.

PREPARATION:

Install the 2mm adaptor ring between the gage body and tip to compensate for the EOS system's longer FFD.

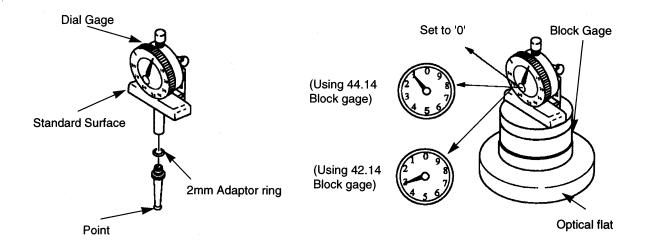


Fig. 3-65 Dial Gages

- 1. Flange to Focal Plane Distance (FFD)
 - 1) Remove the pellicle mirror, open (or remove) back cover, set the camera outer rails down on the aperture optical flat, and open the shutter at "B".
 - 2) Place the dial gage on the mount and measure the FFD at the center and all four corners.
 - 3) If not within limits, adjust with the undercut service mount(CY1-1366) and as few focusing shims as possible.

2. Pressure Plate Center

- 1) Remove the optical flat, close the back cover and open the shutter at "B".
- 2) Place the dial gage on the mount and measure the FFD at the center and all four corners of the pressure plate.
- 3) If center FFD is not within limits, change the pressure plate.
- 3. Pressure Plate Center Depression.
 - 1) Calculate center depression (Step 2 Step 1) from above and if not within limits, change the pressure plate.
 - 2) Check also the difference in the four corner readings from the pressure plate and the center reading from the pressure plate. The center should be concave with respect to the corners, i.e. the reading should be up to 5µm greater at the center than at the corners.

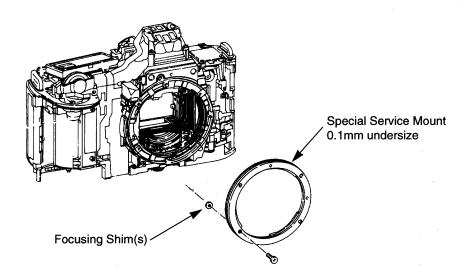


Fig. 3-66 FFD Mount & Shims

3.7 FLANGE to FOCUSING SCREEN ADJUSTMENT

CAUTION Necessary if viewfinder unit is replaced, or FFD is Adjusted.

To insure that the flange to focusing screen distance corresponds to the flange to film plane distance.

STANDARD:

44.00 + 0.02mm

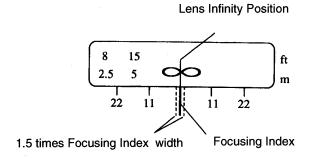


Fig 3-67 1.5 Line Width

Tools:

Universal 500mm Collimator EF50mm f/1.8 lens Magnifier AD-S Focusing Screen B (Split-image)

ADJUSTMENT:

- 1. Install the 'B' focusing screen, and set the lens on manual and at infinity. Use the magnifier on the viewfinder to view the collimator infinity target.
- 2. Adjust with washers so the center of the infinity mark is centered on the index (\pm 1.5 lines).
- 3. If a collimator is not available and there is good visibility, use a straight-edged target at least 250 meters away.

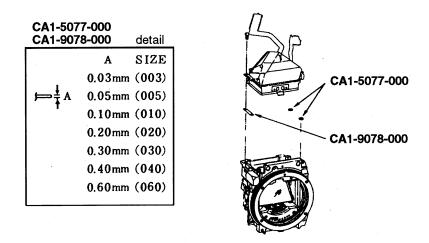


Fig 3-68 Focusing Shims

3.8 Focusing Screen Positioning Adjustment

Purpose:

To align the position of the focusing screen with the position of the Superimpose Marks screen.

STANDARD:

Lateral and Longitudinal Limits: 0.13mm

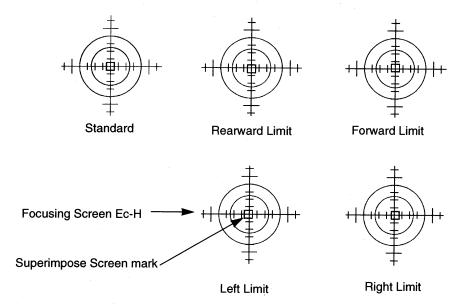


Fig. 3-69 Superimposed Mark Standard

Tools:

Ec-H Focusing Screen

ADJUSTMENT:

Remove the pentaprism unit and turn the adjusting screw to move the screen to meet the lateral standard illustrated above.

Note: There is no longitudinal adjustment. If not within tolerances, replace the pentaprism unit.

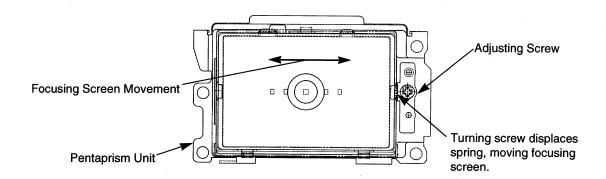


Fig .3-70 Superimpose Position Adjustment.

4. ELECTRICAL ADJUSTMENTS

4.1 INTRODUCTION

Shutter adjustment: Adjusting shutter speeds. Positioning IC1 (AE IC). SPD positioning:

AE accuracy adjustment: Adjusting data output of IC1 (AE IC).

AF basic adjustment: Adjusting data output of BASIS. Adjusting focus data from data output of BASIS. AF focus adjustment:

Adjusting the data output of the flash sensor. Flash adjustment:

Inhibit voltage adjustment: Adjusting inhibit voltage for the camera.

Correcting data output of the temperature sensor. Temperature correction: AE shift: Shifting automatic exposure level at user request.

Displays data output from BASIS to check AF accuracy. Sensor data output:

Focus data output: Displays focus data to check AF accuracy.

Correcting rare slight AF focus errors resulting from use AF focus shift:

of a lens with shallow depth of focus (EF50 mm f/1.0L

or EF 85 mm f/1.2 L).

Self check: Checking the switches and LCDs.

Data transfer: Initializing, storing, or transferring camera data, and

resetting counter when necessary..

4.2 ADJUSTMENTS after PARTS REPLACEMENT

Table 3-1 ADJUSTMENTS after PARTS REPLACEMENT-

Adjustment	Initia-	Temperature	Inhibit	nhibit		AE		AF			Flash	SI
Replaced Parts	lization	correction	voltage	Shutter	SPD	Accuracy	Shift	Accuracy	Focus	Focus shift	A	Align
AE					1	2	A					
Main flex (Data not readable)	1	2	3°	4	5	6	A	T T	8		9	100
Main flex (Data readable)		1	2		3	4					(5)	
AF unit								1	2			
Shutter unit				1								
Mirror unit								1	2			

- **NOTES:** The numbers indicate the order of adjustment.

 - The items marked ▲ in the above table are optional. Inhibit voltage and temperature compensation adjustments must be performed immediately after initialization.

4.3 Adjustment Software for this Camera

1. Adjustment Software Loading

The file name of this software is EOS1NRS.EXE. After a work disk is made the software will run automatically by the AUTOEXE.EXE file

2. Adjustment Software Operation

This software only requires operation of the RETURN (ENTER) key, SPACE Bar and Cursor keys. Follow the instructions on the screen to adjust the camera.

3. CONNECTING THE CAMERA TO THE COMPUTER

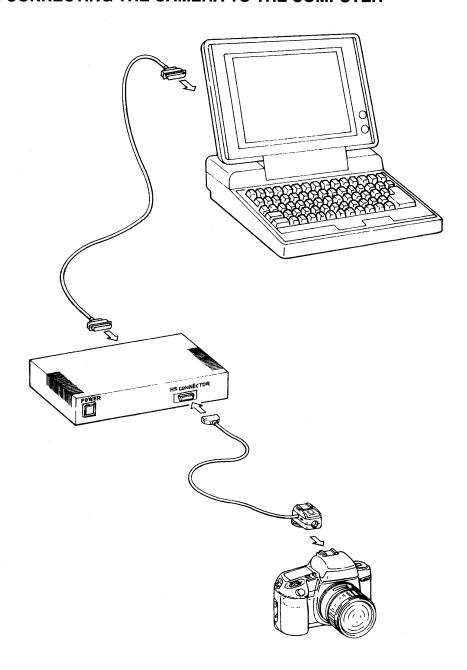


Fig. 3-85 Camera Connection

4. ADJUSTMENT START-UP PROCEDURES

Load the work disk in the computer then turn it on. After a while, the title screen appears as shown at the right.

Turn on the HS-I/F in accordance with the directions displayed on the screen. If HS-I/F has already been turned on, turn it off once and then turn it on.

Upon establishment of communications between the computer and HS-I/F, the screen shown at the right appears. Connect the camera to HS-I/F as indicated and turn on the main switch on the camera. After communications are established, press the Return key.

At times it is necessary to switch the cam era's SW1 on to establish communications. Follow the screen instructions. If more than a minute passes before SW1 is pressed, an error will occur.

Upon establishment of communications between the computer and the camera, The camera ROM version number and number of releases.

EOS-1N

RS

Turn the HS-1/F power ON.
If on already, press RESET switch.

Connect Contact Adaptor from camera to the HS-I/F and turn the camera's main switch on. Press RETURN.

SET

POWON2

WakeUP
SW10N

EOS-1N RS ROM VERSION: RELEASE COUNT: AI :

Press RETURN key to go to MAIN MENU screen.

The EOS-1N RS requires an HS-I/F with uprated Ver. 1.2 ROM for adjustments. If the HS-I/F does not have Ver. 1.2 ROM, this message will appear.

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 a key to exit software program.

If a camera other than an EOS-1N RS is attached, this message will appear.

Press the Return key to display the main menu screen.

The camera is not an EOS-1N RS.

This software is for the EOS-1N RS only.

Press a key to exit software program.

ERRCVER

ERRCAM

ERRHSVER

The ROM in the connected EOS-1N RS is the wrong Version.

This software cannot be used to adjust a camera with this ROM version.

Press a key to exit software program.

5. Adjustment Items Table

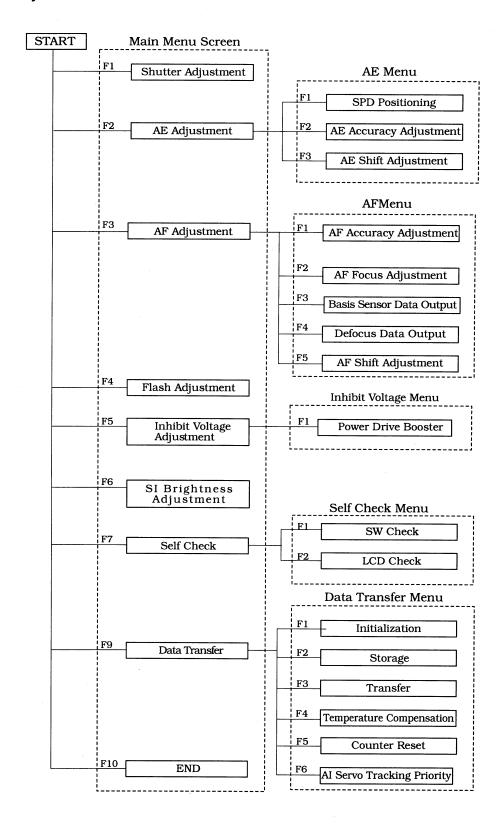


Fig. 3-86 Adjustment Items

4.4 SHUTTER ADJUSTMENT

PURPOSE:

To adjust shutter speeds. If the maximum shutter speed (1/8000sec) is within the limits all shutter speeds have been adjusted.

STANDARD:

Shutter speed standard

Marked shutter speed:

1/8000

Exposure time:

0.122ms

Limits:

0.086 - 0.173ms

CAUTION

Check that the shutter curtain travel times conforms to the standard. If not, adjust the 2nd curtain travel time. If the 1st curtain is not within limits, replace the shutter unit.

Shutter curtain travel time standard

First curtain travel time:

 $2.2 \pm 0.2 ms$

Second curtain travel time:

 $2.2 \pm 0.2 ms$

Tools:

Personal computer

RS-232C cable

HS-I/F

Regulated DC powers supply

Tool battery

Adjustment software (stored on a work disk)

EF-8000

EF50mm f/1.8 production lens

PREPARATION:

- 1) Start adjustment program, connect the camera to the computer through the HS-I/F, and select (F1) Shutter Adjustment on the menu screen.
- 2) Attach the EF50mm f/1.8 production lens to the camera, set TV and AV to 8000 and f/1.8 respectively in the manual mode, and set the camera on the EF-8000. Set the EF-8000 to shutter speed mode.

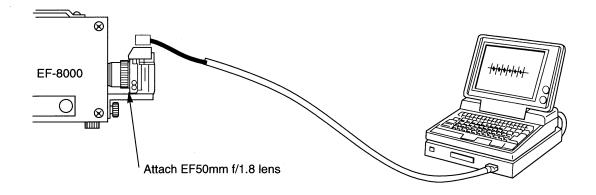
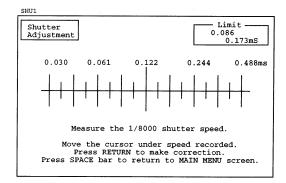


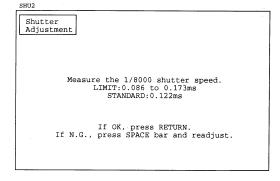
Fig. 3-87 Shutter Speed Adjustment

1) Measure the shutter speed and press the cursor keys to move the cursor to enter the measured value.

Press the Return key and then SW1 on the camera to establish communications between the two to change camera data.



 After completion of the communications, measure the shutter speed again to check whether it conforms to the standard.
 If not, press the Space bar and return to step 1).



4.5 X Time Lag Check

Tool:

EF-8000

STANDARD:

Shutter speed: 1/250

Line A:

0.18ms or more

Line B:

1.50ms or more

ADJUSTMENT:

- 1) Set a shutter flash speed of 1/250 in the TV mode or manual mode.
- 2) Mount a compatible flash or a hot shoe unit (CG9-3194-000) with a 4.7K ohm resistor from the CCC terminal to ground.
- 3) Test with EF-8000 in DELAY mode, and checks lines A and B.

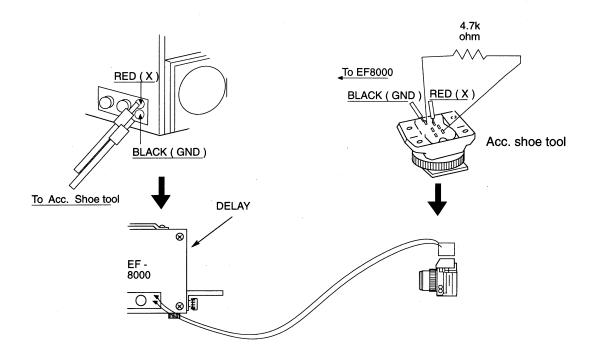


Fig. 3-88 X Time Lag Check

<MEMO>

4.6 SPD Positioning

Purpose:

To align the center of SPD with the optical axis of the camera.

CAUTION

Prior to doing this adjustment, do the AE Accuracy Adjustment (F2 on the AE Menu). After finishing this adjustment. Repeat the AE Accuracy Adjustment

Tools:

Personal computer

RS-232C cable HS-I/F

Regulated DC power supply Tool battery Adjustment software (stored on a work disk)

EF-8000

EF50 mm f/1.8 production lens

Tripod

SPD positioning mask (CY9-1102-000)

Focusing Screen Ec-H

PREPARATION:

- 1) Start adjustment program, connect the camera to the computer through the HS-I/F, and select (F2) AE Adjustment menu screen.
- 2) Attach the EF50 mm f/1.8 production lens to the camera and fix the camera on the tripod toward the light source.
- 3) Attach the SPD positioning mask to the light source of EF-8000 and set the brightness to LV 15.
- 4) Set the camera 45 cm away from the SPD positioning mask and align the center of the SPD positioning mask with that of the center SI focus frame in the finder. Set the lens manually at the closest distance (45 cm).

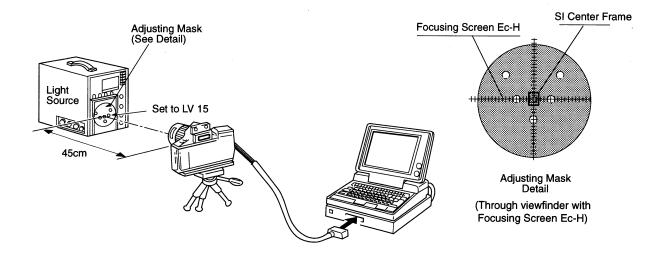
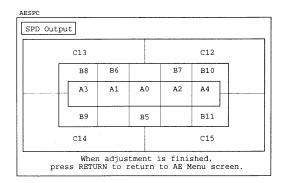


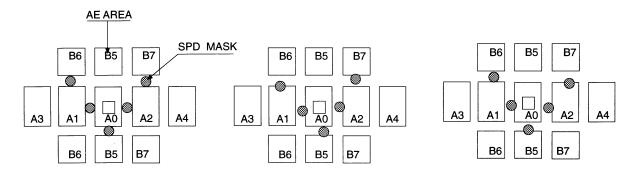
Fig. 3-89 SPC Positioning

- Select F1 SPD Positioning on the AE menu screen. The EV values of individual photometric sensors of the SPD will be displayed.
- 2) Move the mask and confirm that the values change.
- 3) Position the SPD so that the EV values on A1 and A2 and B6 and B7, fall within ± 1 EV.
- 5) After positioning the SPD, fix the SPD holder with instant adhesive agent.



Correct Placement

Incorrect Placement



Position the SPD so that the EV values on A1 and A2 and B6 and B7, fall within ± 1 EV.

Fig. 3-90 SPC Positioning

4.7 AE Accuracy Adjustment

PURPOSE:

To adjust the output level, and gain, of SPD.

STANDARD:

Film Plane Illumination
$0 \pm 0.5 \text{ EV}$
$0 \pm 0.5 \text{ EV}$
$0 \pm 0.5 \text{ EV}$

Tools:

Personal computer

RS-232C cable

HS-I/F

Regulated DC power supply

Tool battery

Adjustment software (stored on a work disk)

EF-8000

EF50 mm f/1.8 production lens

PREPARATION:

- 1) Start adjustment program, connect the camera to the computer through the HS-I/F , and select (F2) AE Menu screen.
- 2) Attach the EF50 mm f/1.8 production lens to the camera and direct it toward the light source of the EF-8000 with the camera's eyepiece shielded from light so that it will not be affected by external light.

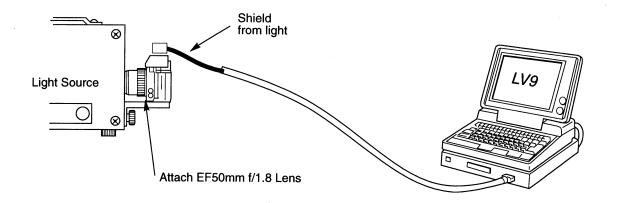
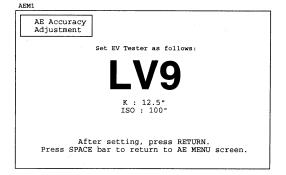
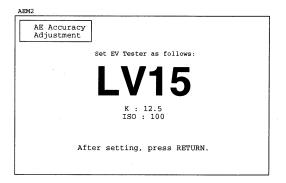


Fig 3-91 AE Accuracy Adjustment

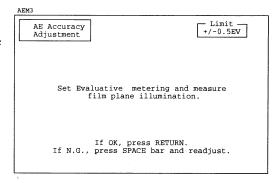
- 1) Select F2 AE Accuracy Adjustment on the AE menu screen.
- 2) Expose the camera to a brightness of LV9 and press the Return key.



3) Expose the camera to a brightness of LV15 and press the Return key.



4) After completion of the communications, check whether AE accuracy conforms to the standard at LV9, LV12, and LV15 in the AE Program mode with evaluative metering. If not, press the Space bar and do the adjustment again.



4.8 AE Shift

PURPOSE:

AE shift is intended to shift the center exposure according to the users preference. Whereas AE accuracy adjustment adjusts the output level, and gain, of the SPD, AE shift adjusts only the level. AE accuracy adjustment clears and previously set AE shift.

Tools:

Personal computer

RS-232C cable

HS-I/F

DC regulated power supply

Tool battery

Adjustment software (stored on a work disk)

EF-8000

EF50 mm f/1.8 production lens

PREPARATION:

- 1) Start adjustment program, connect the camera to the computer through the HS-I/F, and select (F2) AE Menu screen.
- 2) Attach the EF50 mm f/1.8 production lens to the camera and direct it toward the light source of the EF-8000 with the camera's eyepiece shielded from light so that it will not be affected by external light.

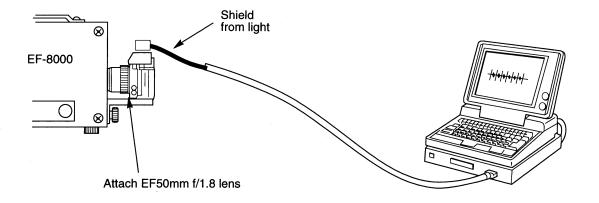
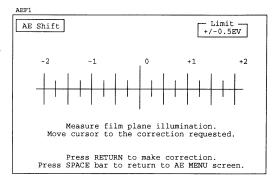
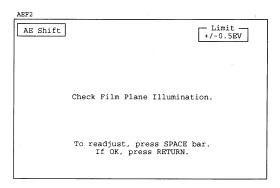


Fig. 3-92 AE Shift

- 1) Select F3 AE Shift on the AE menu screen.
- 2) Move the cursor to select the desired amount of shift. Exposure can be incremented in about 0.25 stops. For example, to shift exposure by +1 stop, press the cursor keys to move the cursor to the position of +1.



3) After completion of the communications, check exposure at LV9, LV12, and LV15



4.9 AF Accuracy Adjustment

AF Accuracy adjustment must always be made when replacing the AF unit.

AF Accuracy adjustment is necessary if it is impossible to store or transfer camera data before replacing the main flex. Otherwise, this adjustment is unnecessary.

PURPOSE:

AGC adjustment: Adjusting the gain to insure that the BASIS output

waveform is sufficient but does not saturate.

DARK adjustment: Correcting minute electric current that BASIS (AF sen-

sor) will generate even in the absence of light (dark cur-

rent).

Shading adjustment: Compensates for bit-by-bit variations in the sensor out-

put.

CAUTION

AF Accuracy adjustment must always be preceded by AF sensor positioning. There must also be no dirt adhering to the main mirror, sub mirror, or light receiving section of the AF sensor.

Tools:

Personal computer RS-232C cable HS-I/F

DC regulated power supply

Tool battery

1 1 1

Adjustment software (stored on a work disk)

EF-8000

EF50 mm f/1.8 production lens

Light

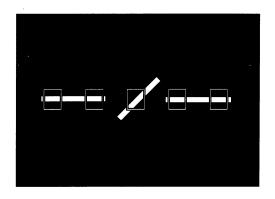
Tripod

Dark bag

Charts (The EOS5 AGC chart is used

PREPARATION:

- 1) Set the camera and AGC Chart as indicated.
- 2) Start adjustment program, connect the camera to the computer through the HS-I/F , and select (F3) AF Menu screen.



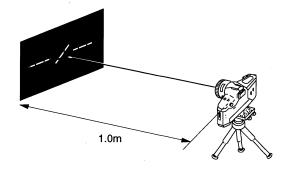
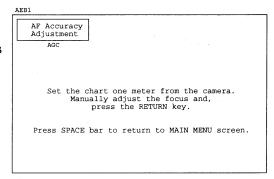
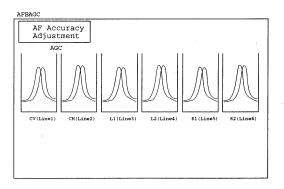


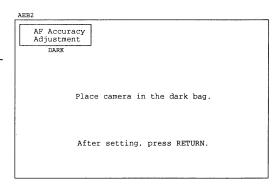
Fig. 3-93 AGC Adjustment

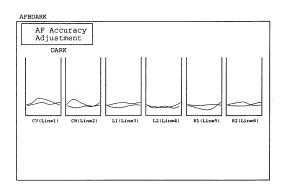
1) Call up the AF Accuracy Adjustment. The screen at the right appears. Insure setting is correct and press Return. The AGC will be adjusted.





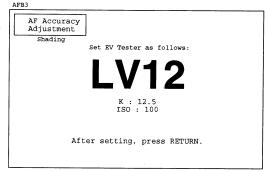
2) When AGC adjustment is complete this screen will appear. Place the camera in a dark bag and press Return. The dark adjustment will be completed.





3) After communications are complete, the screen at the right appears. Place the camera on the light source set to LV12 and press RETURN again.

This completes this adjustment. The AF MENU screen will reappear.



4.10. AF Focus Adjustment

PURPOSE:

The purpose of the AF focus adjustment is to match the AF sensor focus with the film focus. Before this adjustment is made, the flange to focal plane distance (FFD) at the center of the pressure plate must be measured.

CAUTION

The main mirror, sub mirror, and light receiving section of the AF sensor must be clean when making this adjustment.

Remember that the **correct FFD** to the center of the pressure plate for this camera is **44.18mm**, not 44.17mm

Tools:

Personal computer

RS-232C cable

HS-I/F

DC regulated power supply PDB Tool battery Adjustment software (stored on a work disk)

EF-8000

EF50 mm f/1.8 tool lens

Light

Tripod

Dial gage set (44.14 mm gage or 42.14+2 mm adapter)

PREPARATION:

- 1) If the FFD was not recorded during the mechanical adjustments, return to page 3-35. To measure the FFD you must remove the pellicle mirror, set the camera at bulb and measure the FFD at the center of the pressure plate with a 44.14 mm gage (or 42.14+2 mm adapter). Record the reading, noting the 0.01mm difference in FFD standard for the EOS-1N RS.
- 2) Select the AF Adjustment Menu.
- 3) Set the camera and chart as indicated for AF Focus adjustment.



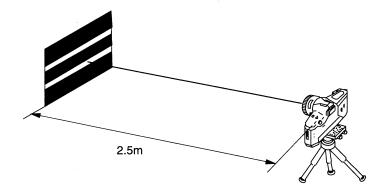
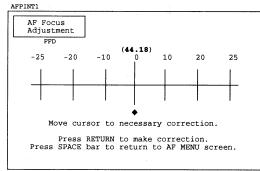
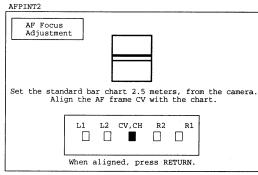


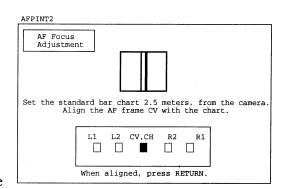
Fig .3-94 AF Focus Adjustment

key.

- Select F2 AF Focus Adjustment on the AF menu screen to display the screen shown on the right. Move the cursor to the flange to focal plane distance (FFD) measured earlier.
- 2) Press the Return key to display the screen shown at the right. Place the camera 2.5m ±10 mm away from the AF reference chart set with the bar horzontal, set the lens to infinity, and then manually focus it to the scribed 2.5m line. Align the center autofocus frame (CV) of the finder with the bars of the AF reference chart and press the Return
- 3) Flip the chart 90° as shown in the next screen so the bars are vertical, manually focus it to the scribed 2.5m line. Align the center autofocus frame (CH) of the finder with the bars of the AF reference chart and press the Return key.
- 4) Return the chart to the horizontal and repeat for the other focus areas L1 - R1. When adjustment is complete, return to the AF Menu.







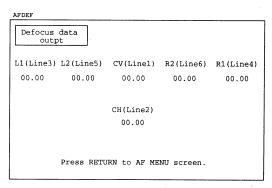
When using a tool lens with a focus variation label reading other than 0.00 proceed as follows.

Select F4 Defocus Data Output on the AF menu screen to display the screen shown at the right. Turn the focusing ring of the lens from the infinity end while observing the DEFOCUS indication. Stop the focusing ring when the DEFOCUS indication reaches a value which is equal to and which has an opposite sign to the variation marked on the tool lens. (See that GAIN is set to L.)

When the focusing ring is overturned, be sure to set it back to the infinity end and then turn it again.

(Example) When the defocus is +0.03, stop the focusing ring when the DEFOCUS indication reaches -0.03.

- 4) Press the Return key to return to the AF menu screen.
- 5) Press the F2 AF Focus Adjustment and repeat steps 1) through 3) to make AF focus adjustment again.



4.11 AF Sensor Dirt Check

PURPOSE:

To check the BASIS data output which can show if the sensor is dirty.

Tools:

Personal computer

RS-232C cable

HS-I/F

DC regulated power supply

Tool battery

Adjustment software (stored on a work disk)

EF-8000

PREPARATION:

Set the camera at the light source without a lens attached to the camera and the brightness of the light source set to LV12. (Be sure to shield the eyepiece from external light.)

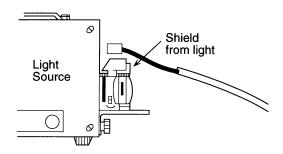
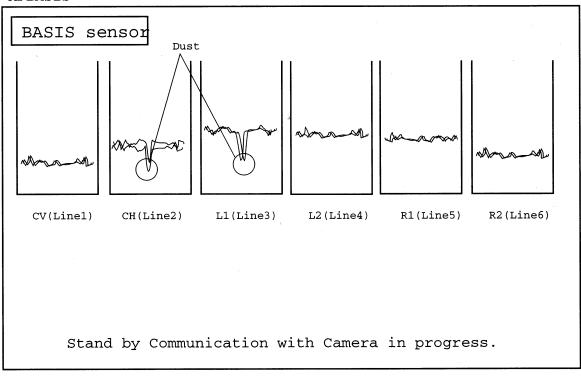


Fig. 3-95 AF Sensor Dust Check

Select F3 Basis Sensor Data Output on the AF menu screen to display the image data.

Check whether the output waveform is linear. If not, dust may be on the AF sensor.

AFBASIS



4.12 Defocus Data Check

PURPOSE:

This procedure is used to check the AF focus adjustment.

Tools:

Personal computer

RS-232C cable

HS-I/F

Regulated DC power supply

Tool battery

Adjustment software (stored on a work disk)

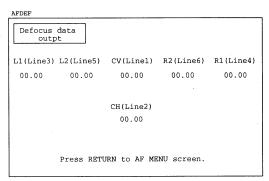
Light

Tripod

AF reference chart, 16 mm bar chart, and 45° chart

CONFIRMATION PROCEDURE:

- 1) Set the charts and camera as indicated in AF Focus Adjustment (Section 4.10)
- 2) Select the F3 AF Adjustment Menu.
- 3) Focus with AF on the chart, and then switch the lens to manual.
- 4) Select F4 Defocus Data Output. Switch to the various charts .Focus with AF on each chart, and check that the results are within the listed limits.



	AF Reference Chart			16mi	m Bar Cha	rt	45 Bar Chart		
	CV	CH	L&R	CV	СН	L&R	CV	СН	L&R
50mm f/1.8 Tool Lens	± 0.030	± 0.030	±0.039	±0.030	±0.060	± 0.080	± 0.070	± 0.090	± 0.130

Cumulative Releases	Defocus Standard			
Below 10,000 releases	As above			
10,001 to 40,000 releases	1.2 times above tolerances			
40,001 to 70,000 releases	1.4 times above tolerances			
70,001 to 100,000 releases	1.6 times above tolerances			

4.13 AF Focus Shift

PURPOSE:

To correct minute AF defocus that many result from use of a lens with very shallow depth of focus, such as EF 50 f/1.0 L and EF 86 f/1.2 L.

AF focus shift must never be used to correct defocus caused by any lenses other than EF 50 f/1.0 L or EF 85 f/1.2 L.

MINUTE DEFOCUS:

EOS Series cameras and lenses are designed so that their defocus does not exceed standard values of 0+0.03 mm and 0+0.02 mm respectively. EF50 f/1.0 L and EF85 f/1.2 L also conform to these standards. However, both these lenses have very shallow depth of focus. Therefore, when used together with a camera whose defocus has the same sign, the lenses may exceed the acceptable depth of focus even if the defocus of both the lenses and the camera conform to the standards. In this event, the user of the lenses may complain of unsharp focus.

Example) Unsatisfactory combination of camera and lens (Camera: 0+0.03 mm Lens: 0+0.02 mm)

AF focus shift is intended to correct total AF defocus resulting from use of a particular camera in combination with a lens with a shallow depth of focus. Therefore, AF focus shift must always be made on that camera and lens.

AF focus shift must also be made after adjusting both the camera and lens.

A lens with a shallow depth of focus may prove in focus without AF focus shift despite is user's complaint. This phenomenon can be attributed to the following:

- (1) Variations in range measurement that result from shooting of an object difficult to focus.
- (2) Shift of an object in the period between turning on of SW2 and exposure.

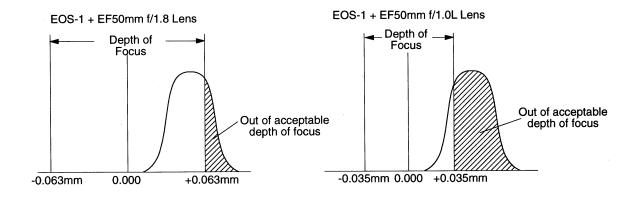


Fig. 3-96 Minute Defocus

Tools:

Personal computer

RS-232C cable

HS-I/F

DC regulated power supply

Tool battery

Adjustment software (stored on a work disk)

Light

Tripod

AF reference chart

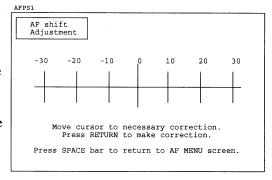
PREPARATION:

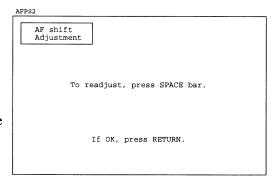
- 1) Set lighting equipment etc. for AF Focus Adjustment.
- 2) Select the F3 AF Adjustment Menu.
- 3) Set the AF reference chart 2.5m ± 10mm from the camera.

ADJUSTMENT:

- 1) Select AF Focus Shift on the AF menu screen to display this screen. Move the cursor to the position of -30 and press Return.
- 2) Attach the lens and press SW1 to focus and shoot the object ten times (with the aperture fully open).
- 3) After shooting, confirm that the screen shown at the right appears. Press the Space key to return to the screen displayed in step 1). Move the cursor to the position of +30 and press Return to reset the AF focus shift to zero.
 - Shoot the object ten times in the same manner as in step 2).
- 4) Press the Space key to return to the screen displayed in step 1). Move the cursor to the position of +30 and press the Return key. Shoot the object ten times as in step 2).
- 5) Press the Space key to return to the screen displayed in step 1). Move the cursor to the position of -30 and press Return to reset the AF focus shift amount to zero. Review the results obtain-ed from shooting on the screen displayed in step 1) and select the optimum one.

Press the Return key to complete AF focus shift.





<MEMO>

4.14 FLASH ADJUSTMENT

If the main flex or TTL (OTF) sensor is replaced, this adjustment is mandatory. If this adjustment is done, the shutter adjustment must be done after it.

PURPOSE:

To adjust the output level and gain of the flash sensor for correct flash film plane exposure.

STANDARD:

Average ±1EV or less

Tools:

Personal computer

RS-232C cable

HS-I/F

DC stable power

Tool battery

Adjustment program (stored on a work disk)

EF-8000 (Direct flash sensor DIR201)

EF50 mm f/1.8 production lens

Speedlite (300 EZ, 420 EZ, or 430 EZ)

Tripod

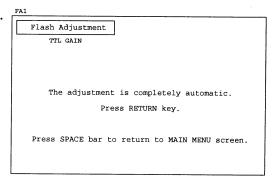
Ambient light should be under EV3. If a dark room is not available, establish a test area with stable conditions and no highly reflective objects. Test about ten cameras from stock and establish an average.

PREPARATION:

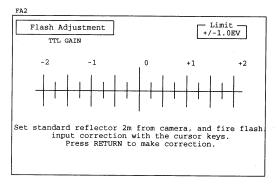
- 1) Run the adjustment software, and select F4 Flash Adjustment.
- 2) Fix the camera on the tripod and attach the EF50 mm f/1.8 production lens and speedlite to the camera. Set the camera to ISO 100, shutter to 1/250, and aperture to about f/5.6. Set the speedlite in TTL mode and position the camera $2m \pm 10mm$ away from the reflector.

ADJUSTMENT:

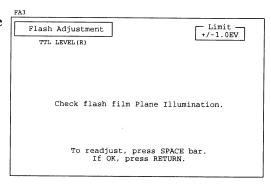
1) Gain adjustment is automatic. Press Return.



2) After the gain adjustment, the level of the right sensor is adjusted. Measure the flash accuracy of the camera several times and use the cursor keys to move the cursor to the position of a desired value for correcting the measured flash accuracy. Press the Return key.



- 3) Check the flash level in accordance with the directions displayed on the screen. If the flash accuracy is acceptable, press the Return key to go to the next sensor automatically. If flash level is not correct, press the Space bar and readjust.
- 4) Cary out the adjustment for the center and left sensor using the same method as the right sensor.



4.15 INHIBIT VOLTAGE ADJUSTMENT

Inhibit voltage check must always be made when replacing the main flex.

Purpose:

To insure the operating accuracy of individual parts of the camera by setting the minimum voltage for camera operation.

Tools:

Personal computer

RS-232C cable

HS-I/F

DC stable power

Tool battery (Power Drive Booster type)

Adjustment program (stored on a work disk)

EF50 mm f/1.8 production lens

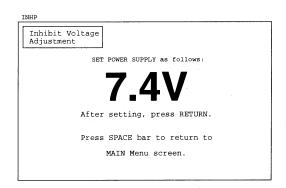
Digital tester

PREPARATION:

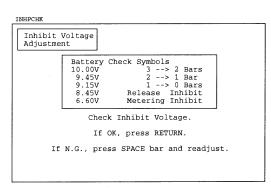
Start adjustment program, connect the camera to the personal computer, and select F5 Inhibit Voltage Adjustment on the menu screen.

ADJUSTMENT:

1) Set supply voltage as indicated on the screen and press the Return key.



2) Check the inhibit voltage as indicated on the screen starting with the highest voltage and work downward.



4.16 Superimpose Screen (SI) Brightness Adjustment

SI screen brightness must always be checked when replacing the main flex. This adjustment can only be done after the AE Accuracy adjustment is finished.

Purpose:

To adjust the SI screen brightness to the appropriate level.

Tools:

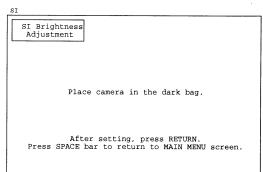
Personal computer
RS-232C cable
HS-I/F
DC stable power
Tool battery
Adjustment program (stored on a work disk)
Dark Bag

PREPARATION:

Start adjustment program, connect the camera to the personal computer, and select F6 SI Brightness Adjustment.

ADJUSTMENT:

- As indicated on the screen, place the camera in the dark bag and press Return. The adjustment is automatic.
- 2) Select each focus mark and check the brightness to determine if the adjustment is correct. Select all focus marks to check for even brightness on all marks.



4.17 SELF CHECK

Self check can be classified into the following types:

PREPARATION:

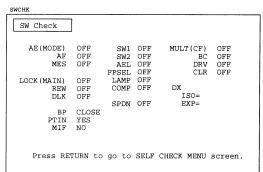
Start adjustment program, connect the camera to the personal computer, and select F7Self Check on the menu screen to display the self check menu screen. Select the required screen.

F1. SW check:

S2. LCD check:

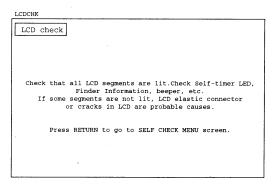
SW CHECK:

Press the F1 key to display the screen. Any switch whose state fails to coincide with that displayed on this screen is suspected of being faulty. Press the Return key to return to the self check menu screen.



LCD CHECK:

Press the F2 key to display this screen. Any LCD which fails to come on at this time is suspected of being faulty. Press the Return key to return to the self check menu screen.



4.18 DATA TRANSFER

The data transfer menu consist of five operations:

1. **Initialization:** Transferring default data to the camera and setting the model

designation if it was impossible to store camera data before

replacing the main flex.

2. **Storage:** Storing camera data in the PC.

3. **Transfer:** Transferring stored camera data back to the camera.

4. **Temperature** Storing temperature corrections in the memory of the camera to

correct measuring errors made by the internal thermometer of the camera. This data is used in the AE and AF sequences.)

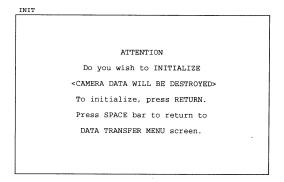
5. **Counter Reset:** This resets the internal frame counter to zero.

Initialization

compensation:

PROCEDURE:

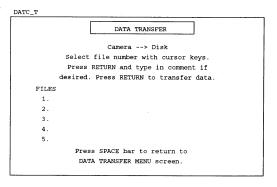
Confirm that the screen shown appears. When choosing to initialize camera data, press the Return key. Otherwise, press the Space key to return to the data transfer menu screen.



Storage

PROCEDURE:

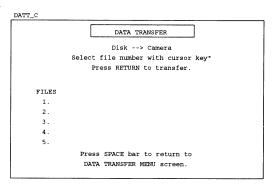
Press the F2 key to display the screen shown at the right. Press the cursor keys to move the cursor to the file position in which camera data is to be stored. Press the Return key to move the cursor to the comment column and enter your comment. Then, press the Return key again to return to the data transfer menu screen.



Transfer

PROCEDURE:

Press the F3 key to display the screen shown at the right. Press the cursor keys to move the cursor to the position of a file which contains the camera data to be transferred to camera. Press the Return key to transfer the data back to the camera. After communications are completed, the data transfer menu screen will reappear.



Temperature Compensation **PROCEDURE:**

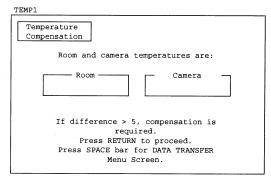
Press the F4 key to display this screen, showing the room temperature measured by the HS-I/F and the temperature measured by the camera. Check whether there is a difference of more than 3°C between the two.

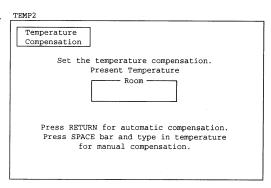
If so, press the Return key to display the next screen showing the room temperature measured by HS-I/F. Check whether the room temperature is normal. If so, press the Return key to return to the data transfer menu screen.

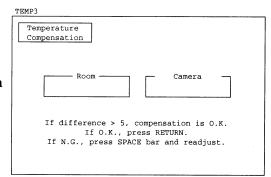
If not, press the Space key to move the cursor to the position of the room temperature. Then, press the numeric keys to enter actual room temperature measured with a thermometer.

Press the Return key to display the next screen , showing the room temperature measured by HS-I/F and the temperature measured by the camera. Check whether there is a difference of more than 3°C between the two.

If so, press the Space key to correct the room temperature again. If not, press the Return key to the data transfer menu screen.







Counter Resetting

PROCEDURE:

When F5 Counter Reset is selected, this screen appears.

Press Return to reset the counter to zero. Press the Space bar to return to the data transfer menu screen without resetting the counter.

CNTRST	
Counter Reset	
The present count is	
Press RETURN to reset counter to [0]. Press SPACE bar to return to DATA TRANSFER MENU :	screen

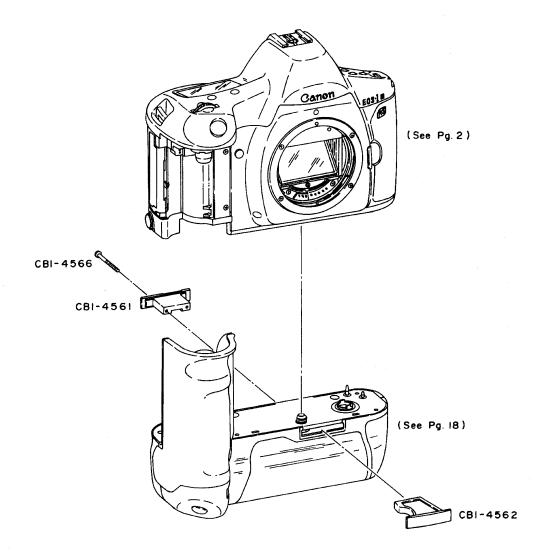
Part 4

Parts Catalog

Canon EOS-1N RS

C12-8311

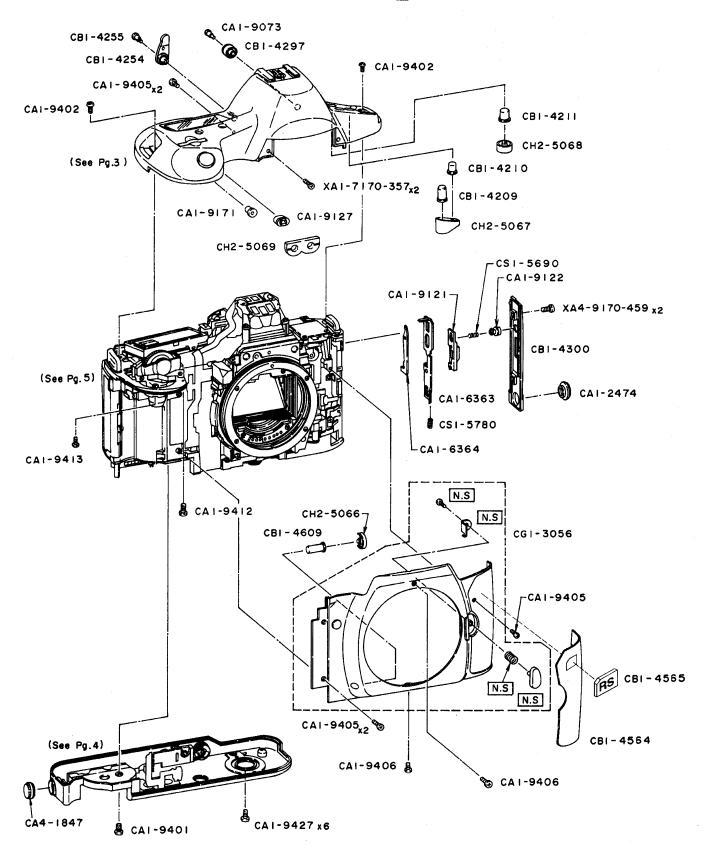
PARTS CATALOG



1

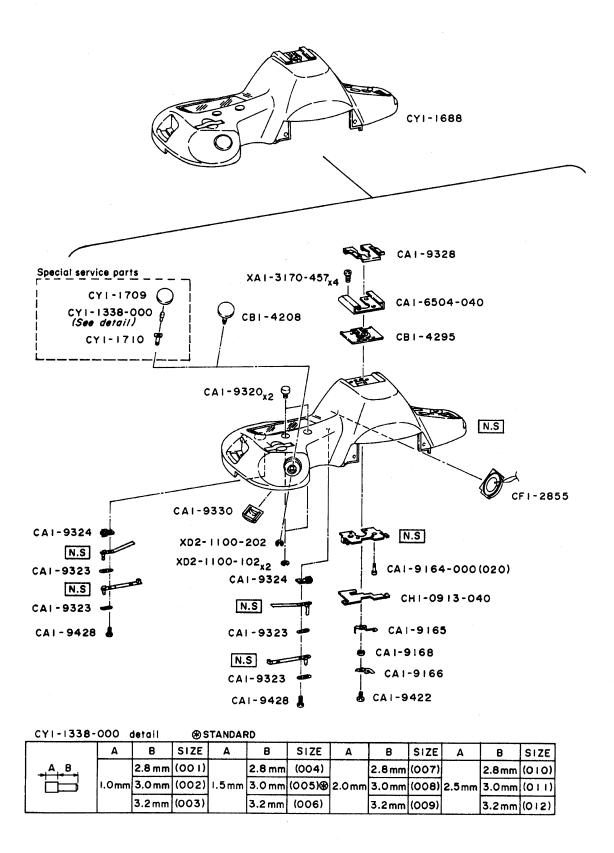
_NE	W PARTS NO.	CLASS	QTY	DESCRIPTION	N	
*	CB1-4561-000	D	1	COVER,REAR BLIND	目隠し蓋	(後)
×	CB1-4562-000	D	1	COVER,FRONT BLIND	目隠し蓋	(前)
*	CB1-4566-000	-	1	SCREW, CROSS RECESS PH		

CANON EOS-1NRS



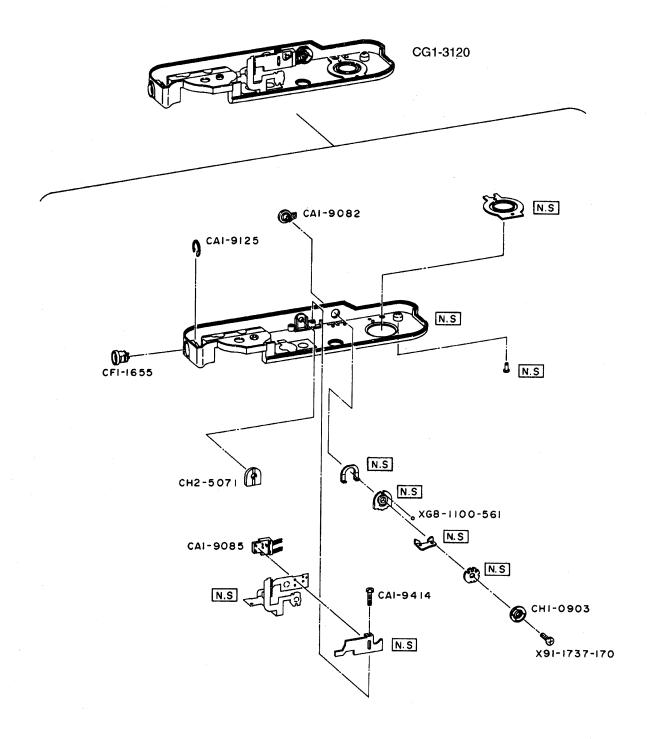
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	N
	CA1-2474-000	Α	1	CAP,P.C TERMINAL	P.Cターミナルキャップ
	CA1-6363-000	Ε	1	HOOK	フック
	CA1-6364-000	Ε	1	LEVER,LOCK	ロックレバー
	CA1-9073-000	D	1	SHAFT, EYEPIECE ADJUSTING	視度調ダイアル軸
	CA1-9121-000	D	1	LEVER,LATCH	ラチェットレバー
	CA1-9122-000	Ε	1	BUTTON,LATCH	ラッチロックボタン
	CA1-9127-000	Ε	1	BUTTON,AE LOCK	AEロックボタン
	CA1-9171-000	Ε	1	BUTTON,AV	AVボタン
	CA1-9401-000	-	1	SCREW, CROSS RECESS PH	
	CA1-9402-000	-	2	SCREW, CROSS RECESS PH	
	044 0405 000		_	0005111 00000 050500 011	
	CA1-9405-000	-	5	SCREW, CROSS RECESS PH	
	CA1-9406-000	-	2	SCREW, CROSS RECESS PH	
	CA1-9412-000	• •	1	SCREW, CROSS RECESS PH	
	CA1-9413-000 CA1-9427-000	•	-1 -6	SCREW, CROSS RECESS PH	
	CA1-9427-000	-	0	SCREW, CROSS RECESS PH	
	CA4-1847-000	D	1 .	CAP, TERMINAL	リモコンキャップ
	CB1-4209-000	С	1	BUTTON,MODE1	モード1ボタン
	CB1-4210-000	С	1	BUTTON,MODE2	モード2ボタン
	CB1-4211-000	C	1	BUTTON,MODE3	モード3ボタン
	CB1-4254-000	D	1	LEVER,EYEPIECE SHUTTER	アイピースシャッターレバー
	CB1-4255-000	•	1	SCREW, CROSS RECESS PH	
	CB1-4297-000	C		DIAL, EYEPIECE ADJUSTING	視度調ダイアル
	CB1-4300-000	D	1	COVER,LATCH	ラッチカバー
*	CB1-4564-000	С	1	COVER, FRONT PANEL	エプロンカバー
*	CB1-4565-000	D	1	PLATE,NAME	ネームプレート(RS)
	CB1-4609-000	D	1	BUTTON,STOP DOWN	深度確認ボタン
	CG1-3056-000	C	1	FRONT COVER UNIT	エプロンユニット
	CH2-5066-000	D	1	SWITCH,STOP-DOWN	ストップダウンスイッチ
	CH2-5067-000	D	1	SWITCH,MODE	モードスイッチ
	CH2-5068-000	D	1	SWITCH,METERING MODE	モードスイッチゴム
	CH2-5069-000	D	1	SWITCH,AE LOCK	モードスイッチゴム
	CS1-5690-000	D	, 1	SPRING,COIL	コイルバネ
	CS1-5780-000	D	1	SPRING,COIL	コイルバネ
	XA1-7170-357	-	2	SCREW, CROSS RECESS PH	
	XA4-9170-459		2	SCREW, CROSS RECESS PH	

CANON EOS-1N RS



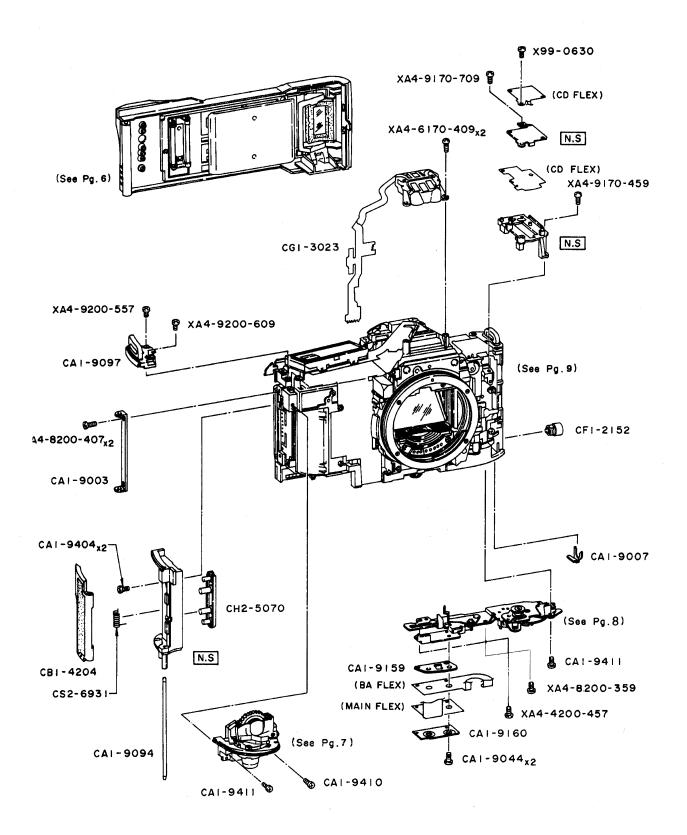
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	l .
	CA1-6504-040	D	1	SHOE,ACCESSORY	アクセサリーシュー
	CA1-9164-000(020)	Ε	1	PIN,FLASH	ストロボピン
	CA1-9165-000	D	1	CONTACT, SHOCK PREVENTION	ビリ防止接片
	CA1-9166-000	D	1	CONTACT,X	X接片
	CA1-9168-000	D	1	SPACER, INSULATING	ビリ防止スペーサー
	CA1-9320-000	С	2	BUTTON,LAMP	ランプボタン
	CA1-9323-000	Ε	4	SPACER,L	Lスペーサー
	CA1-9324-000	Ε	2	BASE,CONTACT	接片台
	CA1-9328-000	С	1	SPRING,PLATE	板スプリング
	CA1-9330-000	Ε	1	CAP,LIGHT SHIELD	遮光キャップ
	CA1-9422-000	-	1	SCREW, CROSS RECESS PH	
	CA1-9428-000	-	2	SCREW, CROSS RECESS PH	
	CB1-4208-000	С	1	BUTTON,RELEASE	レリーズボタン
	CB1-4295-000	Ε	1	BASE,PLATE	アクシュー台
	CF1-2855-000	Ε	1	BEEPER	ビーパー
	CH1-0913-040	Е	1	TOP FLEX	トップカバーフレキ
	CY1-1338-000(XXX)		1	SHAFT, ADJUSTING	調整軸
	CY1-1688-000	С	1	TOP COVER UNIT	上蓋ユニット
	CY1-1709-000	С	. 1	BUTTON,RELEASE	レリーズボタン
	CY1-1710-000	D	1	SHAFT,RELEASE BUTTON	レリーズボタン軸
	VA4 0470 457		4	SCDEW CDOSS DECESS TOLL	
	XA1-3170-457	-	4	SCREW, CROSS RECESS ,FCH	
	XD2-1100-102	-	2	E RING	
	XD2-1100-202	-	1	WASHER,RETAINING	

CANON EOS-IN RS



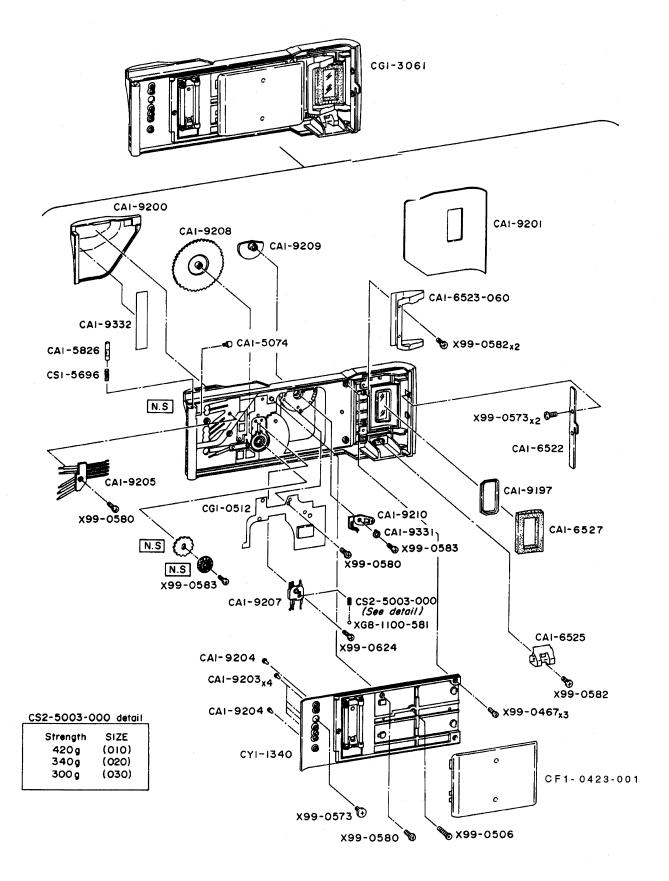
NEV	V PARTS NO.	CLASS	QTY	DESCRIPTION	
	CA1-9082-000	С	1	LEVER,MAIN SWITCH	メインスイッチカバー
	CA1-9085-000	D	1	CONTACT, MAIN SWITCH	メインスイッチ接点
	CA1-9125-000	С	1	RING,C	Cリング
	CA1-9414-000	-	1	SCREW, CROSS RECESS PH	
	CF1-1655-000	С	1	JACK,REMOTE CONTROL	リモコンジャック
*	CG1-3120-000	С	1	BASEPLATE UNIT	底蓋ユニット
	CH1-0903-000	D	1	BOARD, MAIN SWITCH	メインスイッチ基板
	CH2-5071-000	Ε	1	SWITCH, REWIND	巻き戻しスイッチゴム
	X91-1737-170	-	1	SCREW, CROSS RECESS PH	
	XG8-1100-561	-	1	BALL,STEEL	ボール

CANON EOS-IN RS



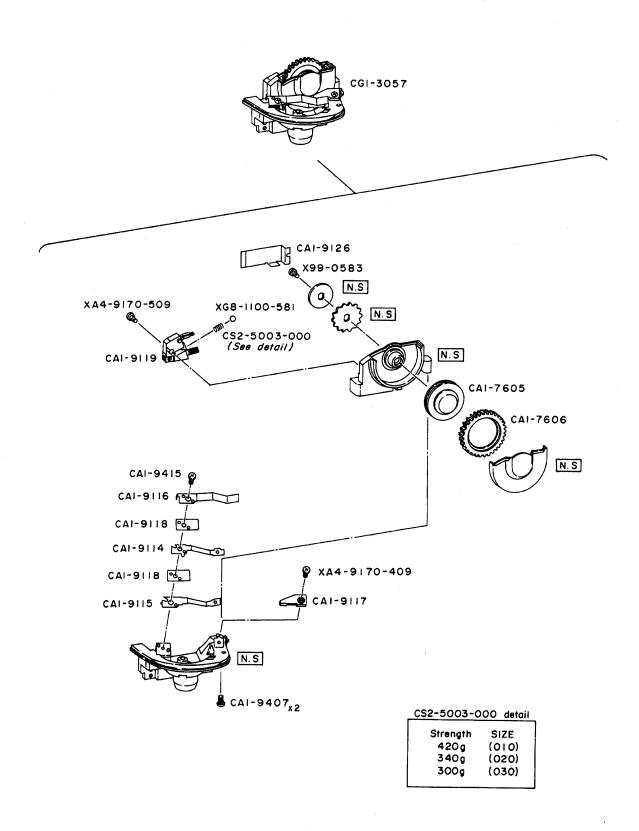
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION		
	CA1-9003-000	E	1	HINGE,BACK COVER	背蓋ヒンジ	
	CA1-9007-000	D	1	RING,PC RETAINER	PCリティナーリング	
	CA1-9044-000	-	2	SCREW, CROSS RECESS PH		
	CA1-9094-000	D	1	SHAFT,PALM WING	パームウィング軸	
	CA1-9097-000	С	1	LUG,NECK STRAP(RIGHT)	耳環(右)	
		_				
	CA1-9159-000	D	1	PAD,FLEX CONNECTION	フレキコネクトゴム	
	CA1-9160-000	Е	1	BASE,FLEX CONNECTION	フレキコネクト押さえ	
	CA1-9404-000	-	2	SCREW, CROSS RECESS PH		
	CA1-9410-000	-	1	SCREW, CROSS RECESS PH		
	CA1-9411-000	-	2	SCREW, CROSS RECESS PH		
	OD4 4004 000	5	4	MINO DALA		
	CB1-4204-000	D	1	WING,PALM	パームウィング	
	CF1-2152-000	D	1	TERMINAL,PC	PCターミナル	
	CG1-3023-000	D	1	SUPERIMPOSE ASS'Y	スーパーインポーズユニット	
	CH2-5070-000	Ε	1	SWITCH,CF	隠れスイッチゴム	
	CS2-6931-000	D	1	SPRING,COIL	コイルバネ	
	X99-0630-000	-	1	SCREW, CROSS RECESS PH		
	XA4-4200-457		1	SCREW, CROSS RECESS PH		
	XA4-4200-437 XA4-6170-409	-	2	SCREW, CROSS RECESS PH		
	XA4-8170-409 XA4-8200-407		2	SCREW, CROSS RECESS PH		
	XA4-8200-407 XA4-8200-359	-	1	,		
	AA4-6200-359	•	'	SCREW, CROSS RECESS PH		
	XA4-9170-459	-	1	SCREW, CROSS RECESS PH		
	XA4-9170-709	-	2	SCREW, CROSS RECESS PH		
	XA4-9200-557		1	SCREW, CROSS RECESS PH		
	XA4-9200-609	-	1	SCREW, CROSS RECESS PH		
				,		

CANON EOS-IN RS



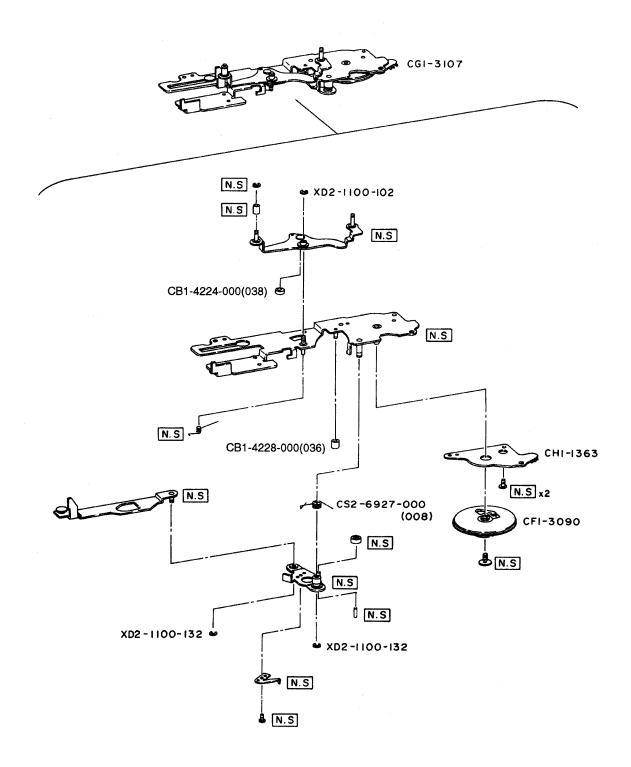
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	N
	CA1-5074-000	E	1 .	SCREW,STOPPER	ストッパーIビス
	CA1-5826-000	D	1	SHAFT,HINGE	ヒンジ軸
	CA1-6522-000	E	1	CLAW,BACK COVER	背蓋爪
	CA1-6523-060	Ε	1	HOLDER, FILM MAGAZINE	フイルムマガジンホルダー
	CA1-6525-000	Ε	1	PLATE, SPRING	スプリング板・
	CA1-6527-000	D	1	SHIELD,LIGHT	モルトプレーン
	CA1-9197-000	D	1	FILM WINDOW	フィルム窓
	CA1-9200-000	С	1	GRIP,BACK COVER	背蓋グリップ
	CA1-9201-000	С	1	COVERING,BACK COVER	背蓋カバー
	CA1-9203-000	D	4	PIN	NOB 信号ピン
	CA4 0004 000	D	2	PIN	NOB GNDピン
	CA1-9204-000 CA1-9205-000	D	1	CONTACT,SIGNAL	信号接片
			1	CONTACT, SIGNAL	ららはハ NOB ダイアル接片
	CA1-9207-000	E D	1	DIAL,REAR INPUT	NOB ダイアル接角 NOB ダイアル
	CA1-9208-000	D	1	CAM,REAR INPUT DIAL	LSWレバー
	CA1-9209-000	D	'	CAM, REAR INFOT DIAL	LSWDN
	CA1-9210-000	Е	1	CONTACT, DIAL LOCK SWITCH	LSW接片
	CA1-9331-000	Ε	1	WASHER	位置決めワッシャー
	CA1-9332-000	D	1	TAPE,DOUBLE SIDED	両面テープ
	CF1-0423-001	D	1	PLATE,PRESSURE	圧着板
	CG1-0512-000	D.	1	NDB FLEX ASSY	NDBフレキユニット
	CC1 2061 000	· D	1	BACK COVER UNIT	背蓋ユニット
	CG1-3061-000		1	SPRING, COIL	月 量 ユー ノ ド コイルバネ
	CS1-5696-000	D D	1	SPRING,COIL	コイルバネ
	CS2-5003-000(XXX) CY1-1340-000	E	1	COVER,BACK(DIAL)	NDB内蓋ユニット
	X99-0467-000		3	SCREW, CROSS RECESS PH	NDDP1=/
	A99-0407-000	-	3	SONEW, ONOSS NECESS I II	
	X99-0506-000	-	1	SCREW, CROSS RECESS PH	
	X99-0573-000	-	3	SCREW, CROSS RECESS PH	
	X99-0580-000	-	3	SCREW, CROSS RECESS PH	
	X99-0582-000	-	3	SCREW, CROSS RECESS PH	
	X99-0583-000	-	2	SCREW, CROSS RECESS PH	
	V00 0004 000			CODEM CDOSS DECESS BU	
	X99-0624-000	-	1	SCREW, CROSS RECESS PH	
	XG8-1100-581	-	1	BALL,STTEL	

CANON EOS-IN RS



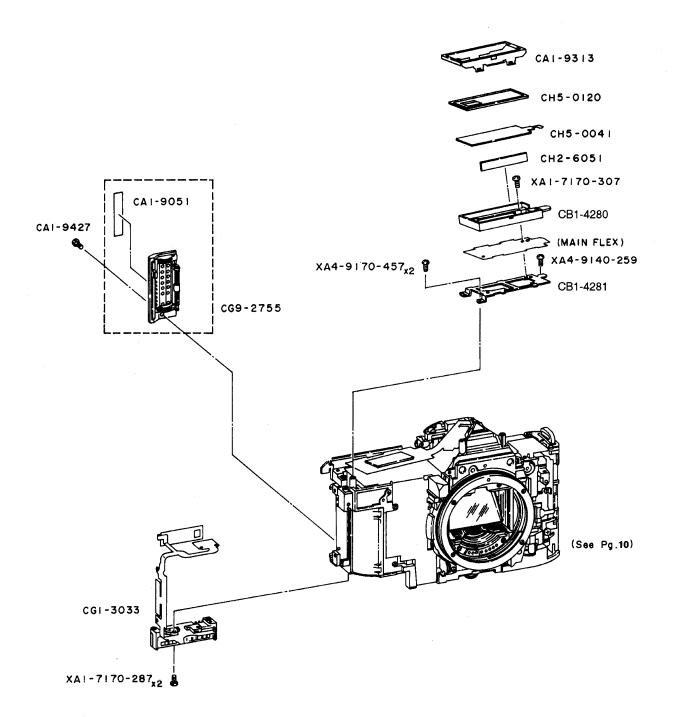
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION		
	CA1-7605-000	E	1	DIAL,MODE CHANGE	モード変換ダイアル	
	CA1-7606-000	D	1	RING,DIAL	ダイヤルリング	
	CA1-9114-000	D	1	CONTACT, RELEASE SWITCH	レリーズ接片 SW1	
	CA1-9115-000	D	1	CONTACT, RELEASE SWITCH	レリーズ接片 SW2	
	CA1-9116-000	D	1	CONTACT, RELEASE GROUND	レリーズGND接片	
	CA1-9117-000	Ε	1	PLATE,RELEASE STOPPER	レリーズ規制板	
	CA1-9118-000	D	2	SPACER,CONTACT	接片スペーサー	
	CA1-9119-000	Ε	1	CONTACT, DIAL	ダイアル接片	
	CA1-9126-000	D	1	COVER, DIAL CONTACT	ダイアル接片カバー	
	CA1-9407-000	-	2	SCREW, CROSS RECESS PH		
	CA1-9415-000	-	1	SCREW, CROSS RECESS PH		
	CG1-3057-000	D	1	DIAL UNIT	ダイヤルユニット	
	CS2-5003-000(XXX)	D	1	SPRING,COIL	コイルバネ	
	X99-0583-000	-	1	SCREW, CROSS RECESS PH		
	XA4-9170-409	-	1	SCREW, CROSS RECESS PH		
	XA4-9170-509	-	1	SCREW, CROSS RECESS PH		
	XG8-1100-581	-	1	BALL,STTEL		

CANON EOS-IN RS



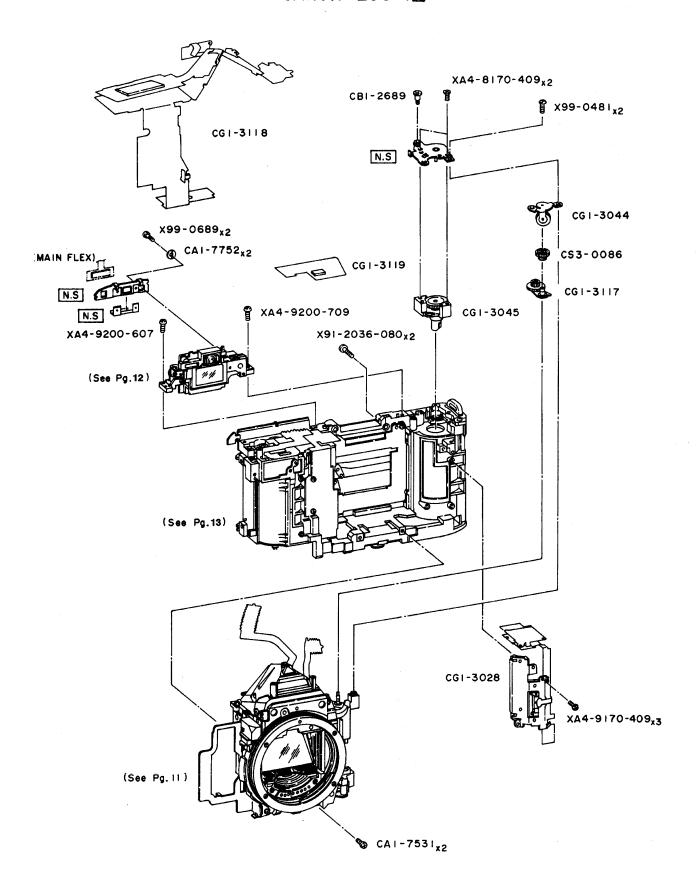
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	N
*	CB1-4224-000(038)	D	1	STOPPER,RUBBER	ストッパー
*	CB1-4228-000(036)	D	1	STOPPER,RUBBER	ストッパー
*	CF1-3090-000	Ε	1	CAM GEAR UNIT	カムギアユニット
*	CG1-3107-000	Ε	1	CHARGE UNIT	チャージユニット
*	CH1-1363-000	D	1	PCB,COUNTER PULSE	チャージ基板
	XD2-1100-102	•	3	E RING	Eリング
	XD2-1100-132	•	2	E RING	Eリング

CANON EOS-IN RS

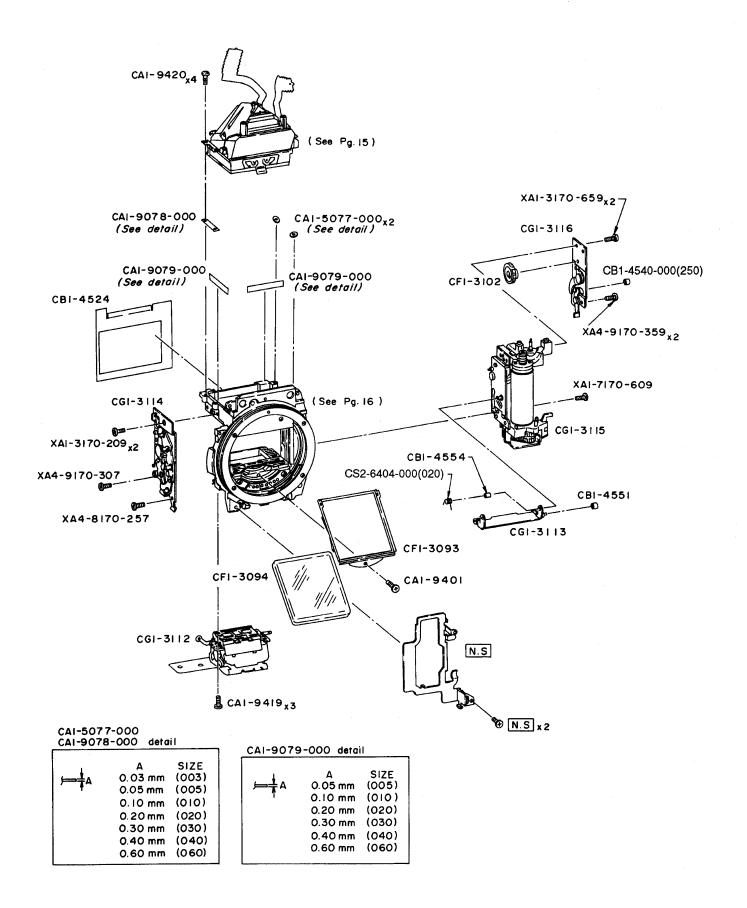


NEW	PARTS NO.	CLASS	QTY	DESCRIPTION		
	CA1-9051-000	E	1	LABEL,FILM LOADING	フィルムセットシール	
	CA1-9313-000	E	1	FRAME,LCD	LCD枠	
	CA1-9427-000	-	1	SCREW, CROSS RECESS PH		
*	CB1-4280-000	E	1	CASE, LCD	OLCケース	
*	CB1-4281-000	Ε	1	BASE, LCD	OLCベース	
	CG1-3033-000	D ,	1	SYSTEM CONNETOR ASS'Y	システムコネクターユニット	
	CG9-2755-000	D	1	ROLLER HOLDER UNIT	ローラーホルダーユニット	
	CH2-6051-000	Ε	1.	CONNECTOR, ELASTIC	コネクター	
	CH5-0041-000	E	1	ELECTRO LUMINESCENCE EL		
	CH5-0120-000	D	1	LCD,EXTERNAL		
	XA1-7170-287	-	2	SCREW, CROSS RECESS PH		
	XA1-7170-307	-	1	SCREW, CROSS RECESS PH		
	XA4-9140-259	-	1	SCREW, CROSS RECESS PH		
	XA4-9170-457	-	2	SCREW, CROSS RECESS PH		
	*	CA1-9051-000 CA1-9313-000 CA1-9427-000 * CB1-4280-000 * CB1-4281-000 CG1-3033-000 CG9-2755-000 CH2-6051-000 CH5-0041-000 CH5-0120-000 XA1-7170-287 XA1-7170-307 XA4-9140-259	CA1-9051-000 E CA1-9313-000 E CA1-9427-000 - * CB1-4280-000 E * CB1-4281-000 D CG9-2755-000 D CH2-6051-000 E CH5-0041-000 E CH5-0120-000 D XA1-7170-287 XA1-7170-307 XA4-9140-259 -	CA1-9051-000 E 1 CA1-9313-000 E 1 CA1-9427-000 - 1 * CB1-4280-000 E 1 * CB1-4281-000 E 1 CG1-3033-000 D 1 CG9-2755-000 D 1 CH2-6051-000 E 1 CH5-0041-000 E 1 CH5-0120-000 D 1 XA1-7170-287 - 2 XA1-7170-307 - 1 XA4-9140-259 - 1	CA1-9051-000 E 1 LABEL,FILM LOADING CA1-9313-000 E 1 FRAME,LCD CA1-9427-000 - 1 SCREW, CROSS RECESS PH * CB1-4280-000 E 1 CASE, LCD * CB1-4281-000 E 1 BASE, LCD CG1-3033-000 D 1 SYSTEM CONNETOR ASS'Y CG9-2755-000 D 1 ROLLER HOLDER UNIT CH2-6051-000 E 1 CONNECTOR,ELASTIC CH5-0041-000 E 1 ELECTRO LUMINESCENCE EL CH5-0120-000 D 1 LCD,EXTERNAL XA1-7170-287 - 2 SCREW, CROSS RECESS PH XA1-7170-307 - 1 SCREW, CROSS RECESS PH XA4-9140-259 - 1 SCREW, CROSS RECESS PH	

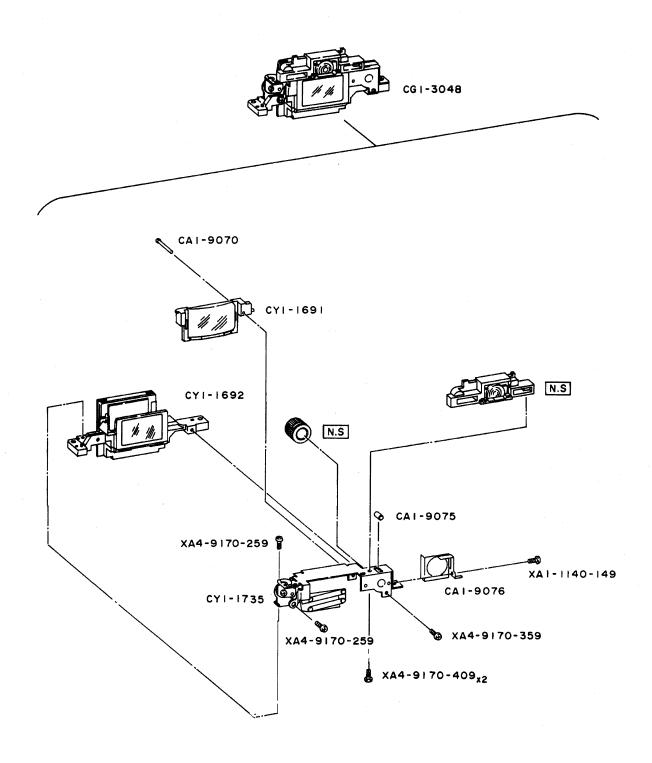
CANON EOS-IN RS



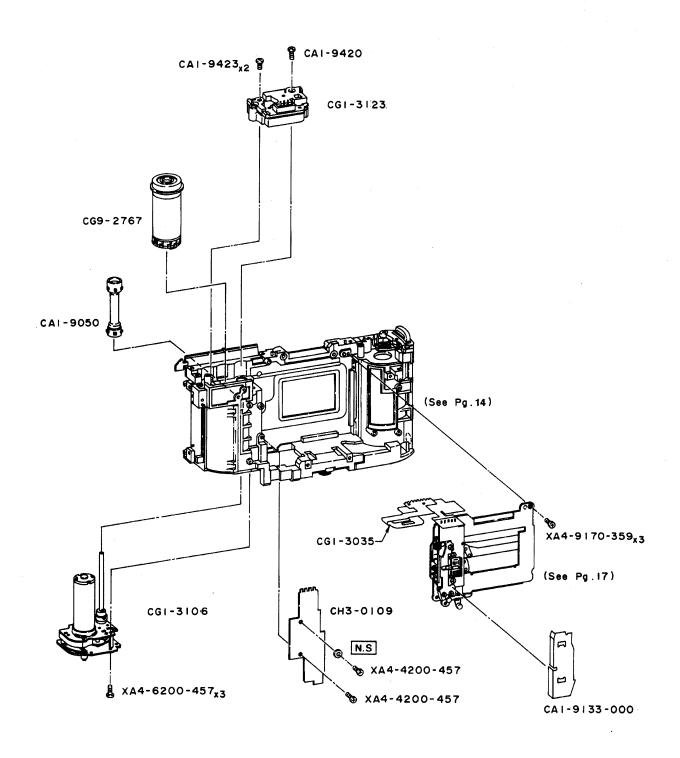
PARTS NO.	CLASS	QTY	DESCRIPTION	
CA1-7531-000	-	2	SCREW, CROSS RECESS PH	
CA1-7752-000	Ε	2	WASHER,WAVE	測光ワッシャー
CB1-2689-000	-	1	SCREW, CROSS RECESS PH	
CG1-3028-000	D	1	DX CONTACT ASS'Y	DX接片ユニット
CG1-3044-000	D	1	REWIND WORM GEAR UNIT	巻き戻し伝達ギアユニット
CG1-3045-000	D	1	FORK UNIT	フォークユニット
CG1-3117-000	D	1	REWIND PLANETARY GEAR UNIT	遊星ギアユニット
CG1-3118-000	D	1	MAIN FLEX ASS'Y	メインフレキユニット
CG1-3119-000	D	1	MOTOR1 FLEX ASS'Y	M1フレキユニット
CS3-0086-000	D	1	GEAR, REWIND SUN	巻き戻し太陽ギア
X91-2036-080	-	2	SCREW, CROSS RECESS PH	
X99-0481-000		2	SCREW, CROSS RECESS PH	
X99-0689-000	-	2	SCREW, CROSS RECESS PH	
XA4-8170-409	- '	2	SCREW, CROSS RECESS PH	
XA4-9170-409	-	3	SCREW, CROSS RECESS PH	
XA4-9200-607	-	1	SCREW, CROSS RECESS PH	
XA4-9200-709	•	1	SCREW, CROSS RECESS PH	
	CA1-7531-000 CA1-7752-000 CB1-2689-000 CG1-3028-000 CG1-3044-000 CG1-3045-000 CG1-3117-000 CG1-3118-000 CG1-3119-000 CS3-0086-000 X91-2036-080 X99-0481-000 X99-0689-000 XA4-8170-409 XA4-9170-409	CA1-7531-000 - CA1-7752-000 E CB1-2689-000 - CG1-3028-000 D CG1-3044-000 D CG1-3117-000 D CG1-3118-000 D CG1-3119-000 D CS3-0086-000 D X91-2036-080 - X99-0481-000 X99-0689-000 - XA4-8170-409 - XA4-9170-409 -	CA1-7531-000 - 2 CA1-7752-000 E 2 CB1-2689-000 - 1 CG1-3028-000 D 1 CG1-3044-000 D 1 CG1-3117-000 D 1 CG1-3118-000 D 1 CG1-3119-000 D 1 CS3-0086-000 D 1 X91-2036-080 - 2 X99-0481-000 2 X99-0689-000 - 2 XA4-8170-409 - 3 XA4-9200-607 - 1	CA1-7531-000 - 2 SCREW, CROSS RECESS PH CA1-7752-000 E 2 WASHER,WAVE CB1-2689-000 - 1 SCREW, CROSS RECESS PH CG1-3028-000 D 1 DX CONTACT ASS'Y CG1-3044-000 D 1 REWIND WORM GEAR UNIT CG1-3045-000 D 1 FORK UNIT CG1-3117-000 D 1 REWIND PLANETARY GEAR UNIT CG1-3118-000 D 1 MAIN FLEX ASS'Y CG1-3119-000 D 1 MOTOR1 FLEX ASS'Y CS3-0086-000 D 1 GEAR,REWIND SUN X91-2036-080 - 2 SCREW, CROSS RECESS PH X99-0481-000 2 SCREW, CROSS RECESS PH X99-0689-000 - 2 SCREW, CROSS RECESS PH XA4-8170-409 - 2 SCREW, CROSS RECESS PH XA4-9170-409 - 3 SCREW, CROSS RECESS PH XA4-9200-607 - 1 SCREW, CROSS RECESS PH



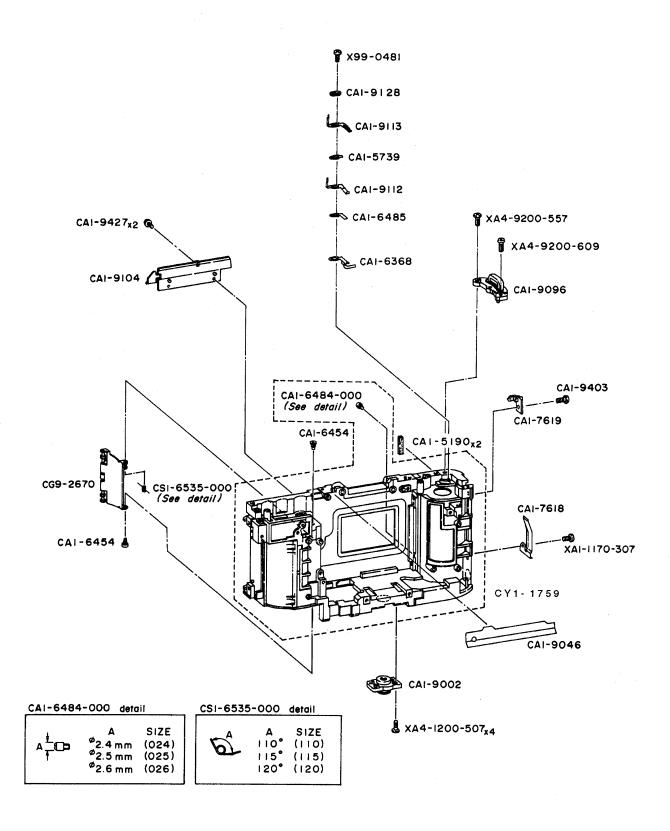
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	l '
	CA1-5077-000(XXX)	E	1	WASHER, FINDER FOCUSING	ファインダーフォーカシングワッシャー
	CA1-9078-000(XXX)		1	SHIM, FINDER FOCUSING	ピント調整板
	CA1-9079-000(XXX)		2	PLATE, PARALLAX ADJUSTING	視野調整板
	CA1-9401-000	-	1	SCREW, CROSS RECESS PH	
	CA1-9419-000	-	3	SCREW, CROSS RECESS PH	
	CA1-9420-000	-	4	SCREW, CROSS RECESS PH	
*	CB1-4524-000	Ε	1	CURTAIN,LIGHT SHIELD	ミラーボックス遮光幕
*	CB1-4540-000(250)	D	1	COLLAR, SUB-MIRROR MECH.	サブミラー駆動コロ
*	CB1-4551-000	D	1	COLLAR, SUB-MIRROR	サブミラー駆動コロ
*	CB1-4554-000	D	1	COLLAR, SUB-MIRROR DRIVE	サブミラー駆動コロ
*	CF1-3093-000	D	1	PELLICLE MIRROR FRAME UNIT	ペリクルミラー枠ユニット
*	CF1-3094-000	D	1	PELLICLE MIRROR UNIT	ペリクルミラーユニット
*	CF1-3102-000	D	1	MIRROR CAM GEAR UNIT	ミラーカムギアユニット
*	CG1-3112-000	D.	1	AF UNIT	AFユニット
*	CG1-3113-000	D	1	SUB-MIRROR UNIT	サブミラーユニット
*	CG1-3114-000	D	1	SHUTTER DRIVE UNIT	シャッター駆動ユニット
*	CG1-3115-000	D	1	MOTOR 2 UNIT	M2 モータユニット
*	CG1-3116-000	D	1	SUB-MIRROR MECHANISM UNIT	サブミラーメカユニット
*	CS2-6404-000(020)	D ·	-	SPRING, SUB-MIRROR DRIVE	サブミラー駆動スプリング
	XA1-3170-209	-	2	SCREW, CROSS RECESS PH	
*	XA1-3170-659	-	2	SCREW, CROSS RECESS PH	
^	XA1-7170-609	-	1	SCREW, CROSS RECESS PH	
	XA4-8170-257	-	1	SCREW, CROSS RECESS PH	
	XA4-9170-297		1	SCREW, CROSS RECESS PH	
	XA4-9170-359	-	2	SCREW, CROSS RECESS PH	
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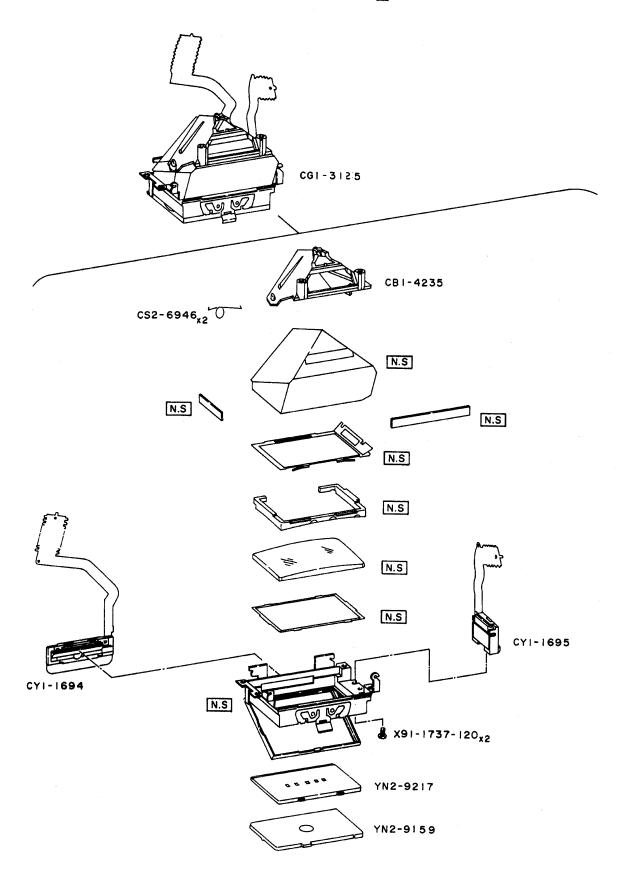
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	
	CA1-9070-000	D	1	SHAFT,FRAME GUIDE	移動枠ガイド軸
	CA1-9075-000	Ε	1	PIN,EYEPIECE DETENT	視度調クリックピン
	CA1-9076-000	Ε	1	SPRING, EYEPIECE DETENT	視度調クリックバネ
	CG1-3048-000	D	1	EYEPIECE ADJUSTMENT UNIT	視度調ユニット
	CY1-1691-000	D	1	EYEPIECE LENS ADJUSTING UNIT	移動枠ユニット
	CY1-1735-000	D	1	EYEPIECE SHUTTER UNIT	アイピースシャッターユニット
	CY1-1692-000	С	1	EYEPIECE UNIT	アイピースユニット
	XA1-1140-149	÷	1	SCREW, CROSS RECESS PH	
	XA4-9170-259	-	2	SCREW, CROSS RECESS PH	
	XA4-9170-359	-	1	SCREW, CROSS RECESS PH	
	XA4-9170-409	-	2	SCREW, CROSS RECESS PH	



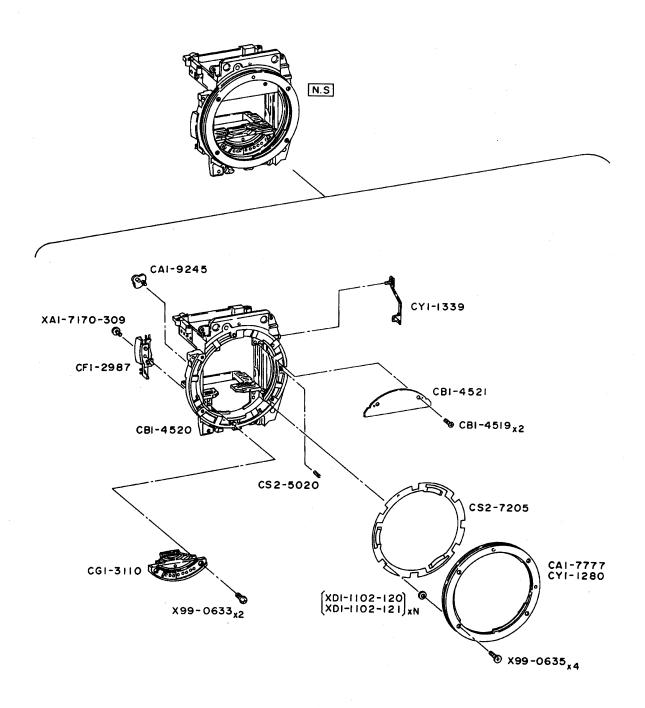
NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N
	CA1-9050-000	С	1	SPROKET	スプロケット
	CA1-9133-000	E	1	SHEET,DUST	防塵カバー
	CA1-9420-000	-	1	SCREW, CROSS RECESS PH	
	CA1-9423-000	-	2	SCREW, CROSS RECESS PH	
*	CG1-3106-000	E	1	FILM ADVANCE UNIT	給送ユニット
*	CG1-3123-000	D	1	SIGNAL UNIT	信号ユニット
	CG1-3035-000	E	1	INTERCONNECTING FLEX	連結フレキ
	CG9-2767-000	D	1	SPOOL UNIT	スプールユニット
	CH3-0109-000	D	1	DC/DC CONVERTER1 ASS'Y	DC/DCコンバーター 1
	XA4-4200-457	-	2	SCREW, CROSS RECESS PH	
	XA4-6200-457	-	3	SCREW, CROSS RECESS PH	
	XA4-9170-359	-	3	SCREW, CROSS RECESS PH	



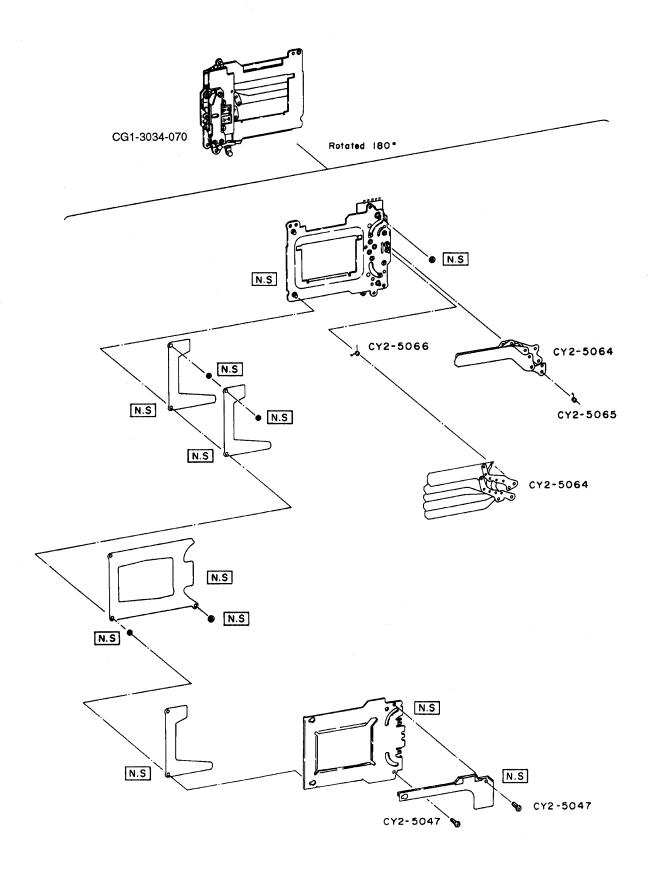
NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	
	CA1-5190-000	Е	2	SHIELD,LIGHT	モルトプレーン
	CA1-5739-000	D	1	INSULATOR	絶縁板
	CA1-6368-000	Ē	1	PLATE, SAFETY LOCK	安全ロック板
	CA1-6454-000	-	2	SCREW, AL COVER SHAFT	ALカバー軸ビス
	CA1-6484-000(XXX)	Ε	1	SHAFT, FILM GUODE	フィルムガイド軸
	CA1-6485-000	Ε	1	INSULATOR	絶縁板
	CA1-7618-000	Ε	1	SPRING,PLATE	板スプリング
	CA1-7619-000	Ε	1	HOLDER,CASSETTE	カセットホルダー
	CA1-9002-000	D	1	SOCKET,TRIPOD	三脚座
	CA1-9046-000	E	1	SHIELD,LIGHT	遮光板
	CA1-9096-000	D	1	HOLDER,STRAP(LEFT)	耳環(左)
	CA1-9104-000	D	1	PANEL,BLIND	スイッチ受け
	CA1-9112-000	D	1	CONTACT, BACK COVER SWITCHI	背蓋スイッチ接片
	CA1-9113-000	D	1	CONTACT, BACK COVER SW GND	背蓋SWG接片
	CA1-9128-000	D	1	SPACER	スペーサー
	CA1-9403-000	-	1	SCREW, CROSS RECESS PH	
	CA1-9427-000	-	2	SCREW, CROSS RECESS PH	
	CG9-2670-000	D	1	AL COVER ASS'Y	ALカバーユニット
	CS1-6535-000(XXX)		1	SPRING	ALカバーバネ
*	CY1-1759-000	Ε	1	BODY ASS'Y	本体
	X99-0481-000	-	1	SCREW, CROSS RECESS PH	
	XA1-1170-307	-	1	SCREW, CROSS RECESS PH	
	XA4-1200-507	-	4	SCREW, CROSS RECESS PH	
	XA4-9200-557	-	1	SCREW, CROSS RECESS PH	
	XA4-9200-609	-	1	SCREW, CROSS RECESS PH	

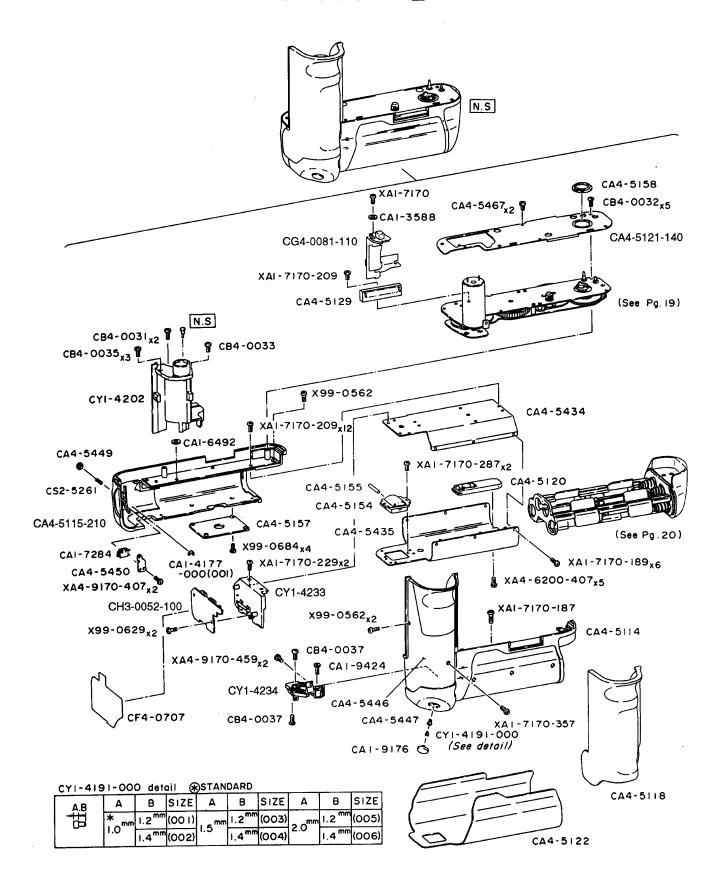


NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N
*	CG1-3125-000	С	1	PENTAPRISM UNIT	ペンタプリズムユニット
	CS2-6946-000	D	2	SPRING	ペンタ押バネえ
	CY1-1694-000	D	1	LCD UNIT (HORIZONTAL)	HLCユニット
	CY1-1695-000	D	1	LCD UNIT(VERTICAL)	VLCユニット
	X91-1737-120	-	2	SCREW, CROSS RECESS PH	
	YN2-9217-000	С	1	MASK,AF FRAME	AFフレーム板
*	YN2-9159-000	С	1	SCREEN, FOCUSING	ピント板

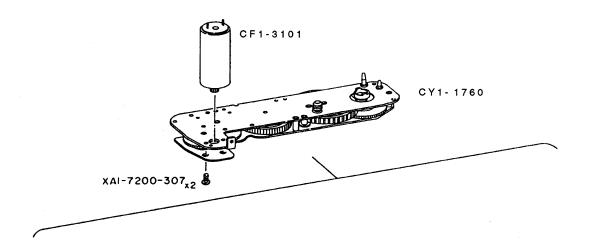


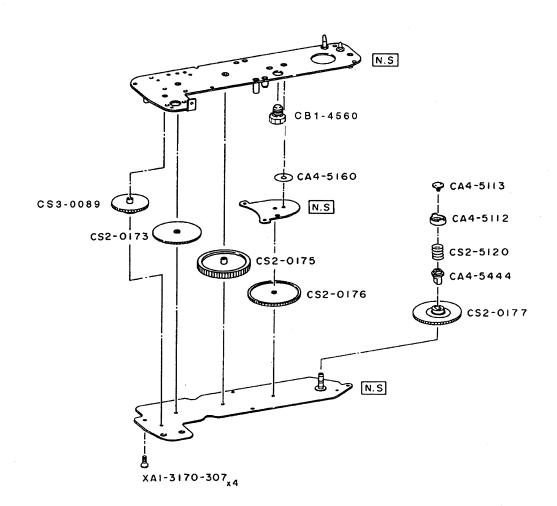
NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N
	CA1-7777-000	С	1	MOUNT,BODY	ボデーマウント
	CA1-9245-000	E	1	LEVER, SENSOR	検知レバー
*	CB1-4519-000	-	2	SCREW, CROSS RECESS PH	10-2-11
*	CB1-4520-000	D	1	BOX,MIRROR	前板
*	CB1-4521-000	D	1	PLATE,LIGHT SHIELD	前板遮光板
	CF1-2987-000	D	1	SWITCH, LENS	レンズスイッチ
*	CG1-3110-000	E	1	MOUNT CONTACT ASS'Y	接点座ユニット
	CS2-5020-000	E	1	SPRING,COIL	コイルバネ
*	CS2-7205-000	D	1	SPRING,MOUNT	マウントバネ
	CY1-1280-000	Ε	1	MOUNT,BODY	ボデーマウント
	CY1-1339-000	Е	1	LOCK PIN UNIT	ロックピンユニット
	X99-0633-000	-	2	SCREW, CROSS RECESS PH	
	X99-0635-000	-	4	SCREW, CROSS RECESS PH	
	XA1-7170-309	-	1	SCREW, CROSS RECESS PH	
	XD1-1102-120	-	1	WASHER	
	XD1-1102-121	-	- 1	SHIM,WASHER	



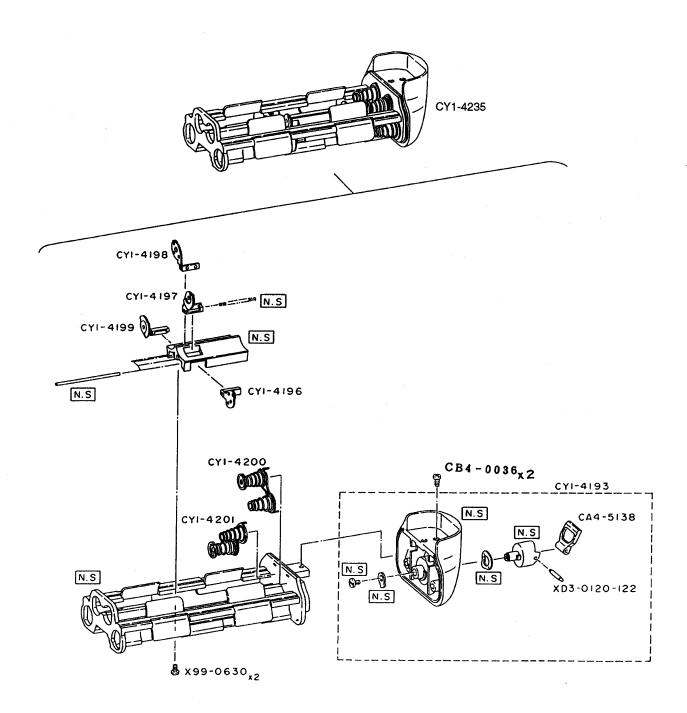


NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N
	CA1-3588-000 CA1-4177-000(001) CA1-6492-000 CA1-7284-000 CA1-9176-000	D D D C	1 1 1 1	WASHER RING,C WASHER SWITCH,MD AE LOCK BUTTON,RELEASE	ワッシャー Cリング ワッシャー AEロックスイッチ レリーズボタン
	CA1-9424-000 CA4-5114-000 CA4-5115-210 CA4-5118-000 CA4-5120-000	D D C D	1 1 1 1	SCREW,CROSS-RECESS,PH CASE,A MD CASE,B MD COVERING TRIPOD,MD	MDケースA MDケースB MDグリップゴム MD三脚
	CA4-5121-140 CA4-5122-000 CA4-5129-000 CA4-5154-000 CA4-5155-000	C C D D	1 1 1 1	PANEL,MD COVERING CONTACT ASS'Y HOLDER,STRAP SHAFT,STRAP HOLDER	MDパネル ケースゴム コンタクト接片 ストラップホルダー ストラップホルダー軸
	CA4-5157-000 CA4-5158-000 CA4-5434-000 CA4-5435-000 CA4-5446-000	D D D C	1 1 1 1	BASE,TRIPOD RING,WATER PROOF PLATE,REINFORCEMENT U PLATE,REINFORCEMENT L TAPE,DOUBLE SIDED	三脚座 防水リング 補強Uプレート 補強Lプレート MD両面テープ
	CA4-5447-000 CA4-5449-000 CA4-5450-000 CA4-5467-000 CB4-0031-000	E E -	1 1 1 2 2	SHAFT,MD RELEASE BUTTON,AE LOCK HOLDER, AE LOCK SCREW,CROSS-RECESS,PH SCREW,CROSS-RECESS,PH	MDレリーズ軸 AEロックボタン AEロック押さえ板
*	CB4-0032-000 CB4-0033-000 CB4-0035-000 CB4-0037-000 CF4-0707-000	- - - - D	5 1 3 2 1	SETSCREW,SLOTTED SCREW,CROSS-RECESS,PH SCREW,CROSS-RECESS,PH SCREW,CROSS-RECESS,PH FPC,SHIELD	シールド板
	CG4-0081-110 CH3-0052-100 CS2-5261-000 CY1-4191-000(XXX) CY1-4202-000	D E D E E	1 1 1 1	MD-FLEX UNIT DC/DC CONVERTER 2 SPRING,MD-AEL SHAFT,ADJUSTING GRIP COVER UNIT	MDフレキユニット DC/DC コンバーター 2 MD-AELボタンバネ 調整軸 グリップカバーユニット
	CY1-4233-000 CY1-4234-000 X99-0562-000 X99-0629-000 X99-0684-000	E E	1 1 3 2 4	RESET HOLDER UNIT SWITCH BASE UNIT SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH	リセットホルダーユニット スイッチ地板ユニット
	XA1-7170-189 XA1-7170-207 XA1-7170-209 XA1-7170-229 XA1-7170-287		6 1 12 13 2	SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH	
	XA1-7170-357 XA4-6200-407 XA4-7170-187 XA4-9170-407 XA4-9170-459	- - - -	1 5 1 2 2	SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH SCREW, CROSS RECESS PH	





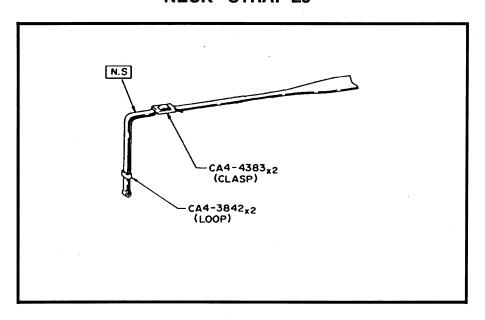
_	NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N ·
		CA4-5112-000	D	1	COUPLER,MD	MDカプラー
		CA4-5113-000	Ď	1	SCREW,PIN FACE	カプラーカニ目ビス
		CA4-5160-000	D	1	WASHER	ワッシャー
		CA4-5444-000	D	1	SHAFT,COUPLER	カプラー駆動軸
		CB1-4560-000	D	1	SCREW,TRIPOD	三脚ネジ
	*	CF1-3101-000	D	1	MOTOR UNIT	モーターユニット
		CS2-0173-000	Ε	1	GEAR,H	太陽ギアH
		CS2-0175-000	E	1	GEAR, A IDLER	アイドルギアA
		CS2-0176-000	Ε	1	GEAR B,IDLER	アイドルギアB
		CS2-0177-000	E	1	GEAR,COUPLER	カプラーギア
		CS2-5120-000	D	1	SPRING,COUPLER	カプラーバネ
	*	CS3-0089-000	E	1 -	GEAR,SUN	太陽ギア
	*	CY1-1760-000	D	1	CHARGE UNIT	チャージユニット
		XA1-3170-307	-	4	SCREW, CROSS RECESS PH	
		XA1-7200-307	-	2	SCREW, CROSS RECESS PH	



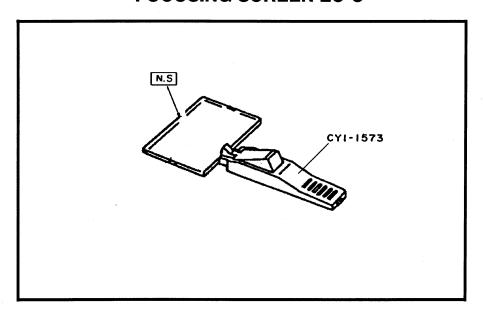
_NEW	PARTS NO.	CLASS	QTY	DESCRIPTIO	N
	CA4-5138-000	D	1	KNOB,BATTERY MAGAZINE	電池マガジン開閉ツマミ
	CB4-0036-000	-	2	SCREW, CROSS RECESS PH	
	CY1-4193-000	С	1	BATTERY COVER UNIT	電池蓋ユニット
	CY1-4196-000	D	1	MIDDLE CONTACT UNIT A	中間接片Aユニット
	CY1-4197-000	D	1	MIDDLE CONTACT UNIT B	中間接片Bユニット
	CY1-4198-000	D	1	MIDDLE CONTACT UNIT C	中間接片Cユニット
	CY1-4199-000	D	1	MIDDLE CONTACT UNIT D	中間接片Dユニット
	CY1-4200-000	С	1	BATTERY CONTACT UNIT A	電池接片Aユニット
	CY1-4201-000	D	1	BATTERY CONTACT UNIT B	電池接片Bユニット
	CY1-4235-000	D	1	BATTERY HOLDER UNIT	電池ホルダーユニット
	X99-0630-000	-	2	SCREW, CROSS RECESS PH	
	XD3-0120-122	-	1	PIN, SPRING	

CANON Acc.

NECK STRAP L3



FOCUSING SCREEN EC-C



NECK STRAP L3

REF.NO. C56-1421-001

NEW PARTS NO.	CLASS	QTY	DESCRIPTION	I
C56-1421-001	D	1	NECK STRAP L3	ストラップL3(アイピースカバー無し)
CA4-3842-000	D	2	LOOP	環
CA4-4383-000	D	2	CLASP	止め金

FOCUSING SCREEN EC-C

NEW	PARTS NO.	CLASS	QTY	DESCRIPTION	
1	CY1-1573-000	D	1	TOOL, FOCUSING SCREEN	スクリーン取り外し工具

ELECTRIC PARTS LIST

NEW	SYMBOL	PARTS NO.	DESCRIPTION	REMARK
	BXTAL	WK2-0188-000	XTAL(32.76KHz)	DS-VT200
	FUSE	WD8-5050-000(200)	FUSE	JAA-5002-501
	LCD Dr.	CH4-0514-000	LCD DRIVER IC	SN28899
	MTDR1	CH4-0159-000	MOTOR DRIVER1	T8120
*	MTDR2	WA4-6332-000	MOTOR DRIVER2	MPC17A10SVM
	TMOS	CH4-0213-000	TMOS	SFX10
	XTAL	WK2-0188-000	XTAL(32.76KHz)	DS-VT200
		CH2-2777-000	FLAT TWIN LEADS	RED / WHITE
		CH2-2796-000	SHIELDED LEADS	BLACK / WHITE
		CH2-4173-000	FLAT TWIN LEADS	RED / WHITE
		CH2-4174-000	FLAT TWIN LEADS	RED / WHITE
		CH2-4176-000	SHIELDED LEADS	BLACK / WHITE
		Y11-3704-000	LEAD	PINK
		Y11-3706-000	LEAD	ORANGE
		Y11-3712-000	LEAD	PURPLE
		Y11-3901-000	LEAD	WHITE
		Y11-3902-000	LEAD	BLACK
		Y11-3903-000	LEAD	RED
		Y11-3904-000	LEAD	PINK
		Y11-3906-000	LEAD	ORANGE
		Y11-3907-000	LEAD	YELLOW
		Y11-3909-000	LEAD	GREEN
		Y11-3911-000	LEAD	BLUE
		Y11-3912-000	LEAD	PURPLE
		Y11-3913-000	LEAD	BROWN
		Y11-3914-000	LEAD	GLAY
		Y11-4402-000	LEAD	BLACK
		Y11-4403-000	LEAD	RED
		Y11-4506-000 .	LEAD	ORANGE
		Y11-4511-000	LEAD	BLUE
		Y11-4514-000	LEAD	GLAY
		Y11-5002-000	LEAD	BLACK
		Y11-5003-000	LEAD	RED
		Y11-5006-000	LEAD	ORANGE
		Y11-5007-000	LEAD	YELLOW
		Y11-5012-000	LEAD	PURPLE
		Y11-5014-000	LEAD	GLAY

NEW	PARTS NO.	PAGE	NEW PARTS NO.	PAGE
	CA1-2474-000	2	CA1-9070-000	12
	CA1-3588-000	18	CA1-9073-000	2
	CA1-4177-000(001)	18	CA1-9075-000	12
	CA1-5074-000	6	CA1-9076-000	12
	CA1-5077-000(XXX)	11	CA1-9078-000(XXX)	11
	CA1-5190-000	14	CA1-9079-000(XXX)	11
	CA1-5739-000	14	CA1-9082-000	4
	CA1-5826-000	6	CA1-9085-000	4
	CA1-6363-000	2	CA1-9094-000	5
	CA1-6364-000	2	CA1-9096-000	. 14
	CA1-6368-000	14	CA1-9097-000	5
	CA1-6454-000	14	CA1-9104-000	14
	CA1-6484-000(XXX)	14	CA1-9112-000	14
	CA1-6485-000	14	CA1-9113-000	14
	CA1-6492-000	18	CA1-9114-000	7
	CA1-6504-040	3	CA1-9115-000	7
	CA1-6522-000	. 6	CA1-9116-000	7
	CA1-6523-060	6	CA1-9117-000	7
	CA1-6525-000	6	CA1-9118-000	7
	CA1-6527-000	6	CA1-9119-000	7
	CA1-7284-000	18	CA1-9121-000	2
	CA1-7531-000	10	CA1-9122-000	2
	CA1-7605-000	7	CA1-9125-000	4
	CA1-7606-000	7	CA1-9126-000	. 7
	CA1-7618-000	14	CA1-9127-000	2
	CA1-7619-000	14	CA1-9128-000	14
	CA1-7752-000	10	CA1-9133-000	13
	CA1-7777-000	16	CA1-9159-000	5
	CA1-9002-000	14	CA1-9160-000	5
	CA1-9003-000	5	CA1-9164-000(020)	3
	CA1-9007-000	5	CA1-9165-000	3
	CA1-9044-000	5	CA1-9166-000	3
	CA1-9046-000	14	CA1-9168-000	3
	CA1-9050-000	13	CA1-9171-000	2
	CA1-9051-000	9	CA1-9176-000	18

NEW PARTS NO.	PAGE	NEW PARTS NO.	PAGE
CA1-9197-000	6	CA1-9423-000	13
CA1-9200-000	6	CA1-9424-000	18
CA1-9201-000	6	CA1-9427-000	2,9,14
CA1-9203-000	6	CA1-9428-000	3
CA1-9204-000	6	CA4-1847-000	2
CA1-9205-000	6	CA4-5112-000	19
CA1-9207-000	6	CA4-5113-000	19
CA1-9208-000	6	CA4-5114-000	18
CA1-9209-000	6	CA4-5115-210	18
CA1-9210-000	6	CA4-5118-000	18
CA1-9245-000	16	CA4-5120-000	18
CA1-9313-000	9	CA4-5121-140	18
CA1-9320-000	3	CA4-5122-000	18
CA1-9323-000	3	CA4-5129-000	18
CA1-9324-000	3	CA4-5138-000	20
CA1-9328-000	3	CA4-5154-000	18
CA1-9330-000	3	CA4-5155-000	18
CA1-9331-000	6	CA4-5157-000	18
CA1-9332-000	6	CA4-5158-000	18
CA1-9401-000	2,11	CA4-5160-000	19
CA1-9402-000	2	CA4-5434-000	18
CA1-9403-000	14	CA4-5435-000	18
CA1-9404-000	5	CA4-5444-000	19
CA1-9405-000	2	CA4-5446-000	18
CA1-9406-000	2	CA4-5447-000	18
CA1-9407-000	7	CA4-5449-000	18
CA1-9410-000	5	CA4-5450-000	18
CA1-9411-000	5	CA4-5467-000	18
CA1-9412-000	2	CB1-2689-000	10
CA1-9413-000	2	CB1-4204-000	5
CA1-9414-000	4	CB1-4208-000	3
CA1-9415-000	7	CB1-4209-000	2
CA1-9419-000	11	CB1-4210-000	2
CA1-9420-000	11,13	CB1-4211-000	2
CA1-9422-000	3	* CB1-4224-000(038)	8

NEW	PARTS NO.	PAGE	NEW	PARTS NO.	PAGE
*	CB1-4228-000(036)	8	*	CF1-3094-000	11
	CB1-4254-000	2	*	CF1-3101-000	19
	CB1-4255-000	2	*	CF1-3102-000	11
*	CB1-4280-000	9	*	CF4-0707-000	18
*	CB1-4281-000	9		CG1-0512-000	6
	CB1-4295-000	3		CG1-3023-000	. 5
	CB1-4297-000	2		CG1-3028-000	10
	CB1-4300-000	2		CG1-3033-000	9
*	CB1-4519-000	16	*	CG1-3034-070	17
*	CB1-4520-000	16		CG1-3035-000	13
*	CB1-4521-000	16		CG1-3044-000	10
*	CB1-4524-000	11		CG1-3045-000	10
*	CB1-4540-000(250)	11		CG1-3048-000	12
*	CB1-4551-000	11		CG1-3056-000	2
*	CB1-4554-000	11		CG1-3057-000	7
	CB1-4560-000	19		CG1-3061-000	6
*	CB1-4561-000	1	*	CG1-3106-000	13
*	CB1-4562-000	· 1	*	CG1-3107-000	8
*	CB1-4564-000	2	*	CG1-3110-000	16
*	CB1-4565-000	2	*	CG1-3112-000	11
*	CB1-4566-000	1	*	CG1-3113-000	11
	CB1-4609-000	2	*	CG1-3114-000	11
	CB4-0031-000	18	*	CG1-3115-000	11
	CB4-0032-000	18	*	CG1-3116-000	11
	CB4-0033-000	18	*	CG1-3117-000	10
	CB4-0035-000	18	*	CG1-3118-000	10
	CB4-0036-000	20	*	CG1-3119-000	10
	CB4-0037-000	18	*	CG1-3120-000	4
	CF1-0423-001	6	*	CG1-3123-000	13
	CF1-1655-000	4	*	CG1-3125-000	15
	CF1-2152-000	5		CG4-0081-110	18
	CF1-2855-000	3		CG9-2670-000	14
	CF1-2987-000	16		CG9-2755-000	9
*	CF1-3090-000	8		CG9-2767-000	13
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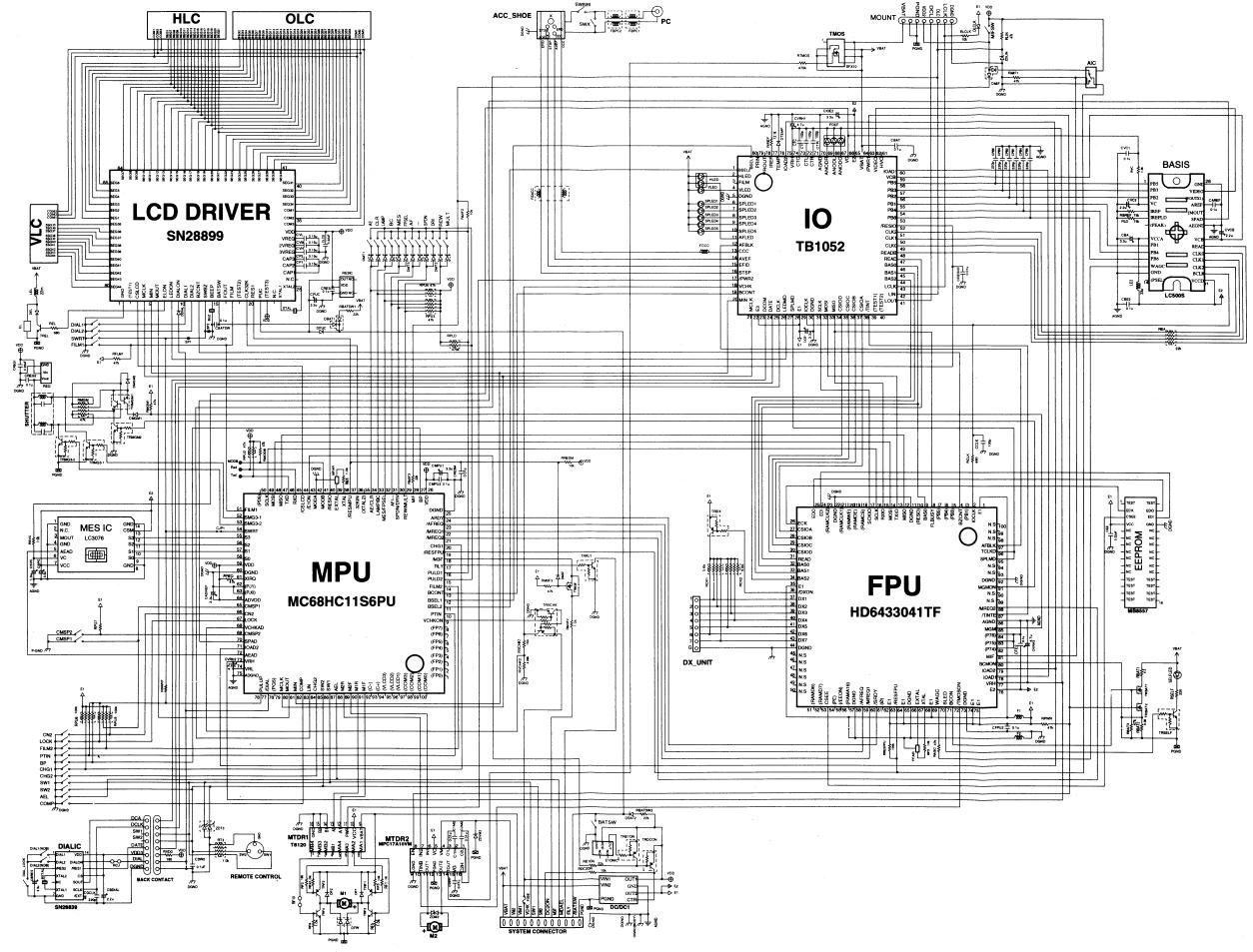
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	CH2-5066-000	2		CY1-1692-000	12
	CH2-5067-000	2		CY1-1694-000	15
	CH2-5068-000	2		CY1-1695-000	15
	CH2-5069-000	. 2		CY1-1709-000	3
	CH2-5070-000	5		CY1-1710-000	3
	CH2-5071-000	4		CY1-1735-000	12
	CH2-6051-000	9	*	CY1-1759-000	14
	CH3-0052-100	18	*	CY1-1760-000	19
	CH3-0109-000	13		CY1-4191-000(XXX)	18
	CH5-0041-000	9		CY1-4193-000	20
	CH5-0120-000	9		CY1-4196-000	20
	CS1-5690-000	2		CY1-4197-000	20
	CS1-5696-000	6		CY1-4198-000	20
	CS1-5780-000	. 2		CY1-4199-000	20
	CS1-6535-000(XXX)	14		CY1-4200-000	20
	CS2-0173-000	19		CY1-4201-000	20
	CS2-0175-000	19		CY1-4202-000	18
	CS2-0176-000	-19		CY1-4233-000	18
	CS2-0177-000	19		CY1-4234-000	18
	CS2-5003-000(XXX)	6,7		CY1-4235-000	20
	CS2-5020-000	16		CY2-5047-000	17
	CS2-5120-000	19		CY2-5064-000	17
	CS2-5261-000	18		CY2-5065-000	17
*	CS2-6404-000(020)	11		CY2-5066-000	17
	CS2-6931-000	5		X91-1737-120	15
	CS2-6946-000	15		X91-1737-170	4
*	CS2-7205-000	16		X91-2036-080	10
*	CS3-0086-000	10		X99-0467-000	6
*	CS3-0089-000	19		X99-0481-000	10,14
	CY1-1280-000	16		X99-0506-000	6
	CY1-1338-000(XXX)	3		X99-0562-000	18
	CY1-1339-000	16		X99-0573-000	6
	CY1-1340-000	6		X99-0580-000	6

NEW	PARTS NO.	PAGE	NEW PARTS NO.	PAGE
	X99-0582-000	6	XA4-9140-259	9
	X99-0583-000	6,7	XA4-9170-259	12
	X99-0624-000	6	XA4-9170-307	11
	X99-0629-000	18	XA4-9170-359	11,12,13
	X99-0630-000	5,20	XA4-9170-407	18
	X99-0633-000	16	XA4-9170-409	7,10,12
	X99-0635-000	16	XA4-9170-457	9
	X99-0684-000	18	XA4-9170-459	2,5,18
	X99-0689-000	10	XA4-9170-509	7
	XA1-1140-149	12	XA4-9170-709	5
	XA1-1170-307	14	XA4-9200-557	5,14
	XA1-3170-209	11	XA4-9200-607	10
	XA1-3170-307	19	XA4-9200-609	5,14
	XA1-3170-457	3	XA4-9200-709	10
*	XA1-3170-659	11	XD1-1102-120	16
	XA1-7170-189	18	XD1-1102-121	16
	XA1-7170-207	18	XD2-1100-102	3
	XA1-7170-209	18	XD2-1100-102	8
	XA1-7170-229	18	XD2-1100-132	8
	XA1-7170-287	9,18	XD2-1100-202	3
	XA1-7170-307	9	XD3-0120-122	20
	XA1-7170-309	16	XG8-1100-561	4
	XA1-7170-357	2,18	XG8-1100-581	6,7
	XA1-7170-609	11	* YN2-9159-000	15
	XA1-7200-307	19	YN2-9217-000	.15
	XA4-1200-507	14		
	XA4-4200-457	5,13		
	XA4-6170-409	5		
	XA4-6200-407	18		
	XA4-6200-457	13		
	XA4-7170-187	18		
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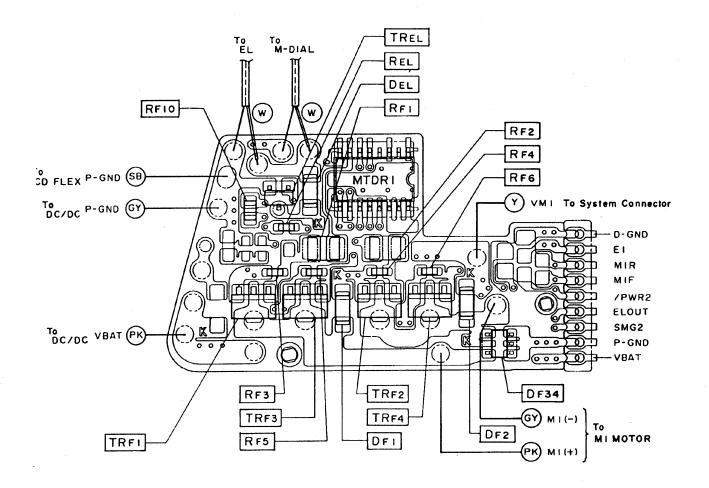
Part 5

Electrical Diagrams

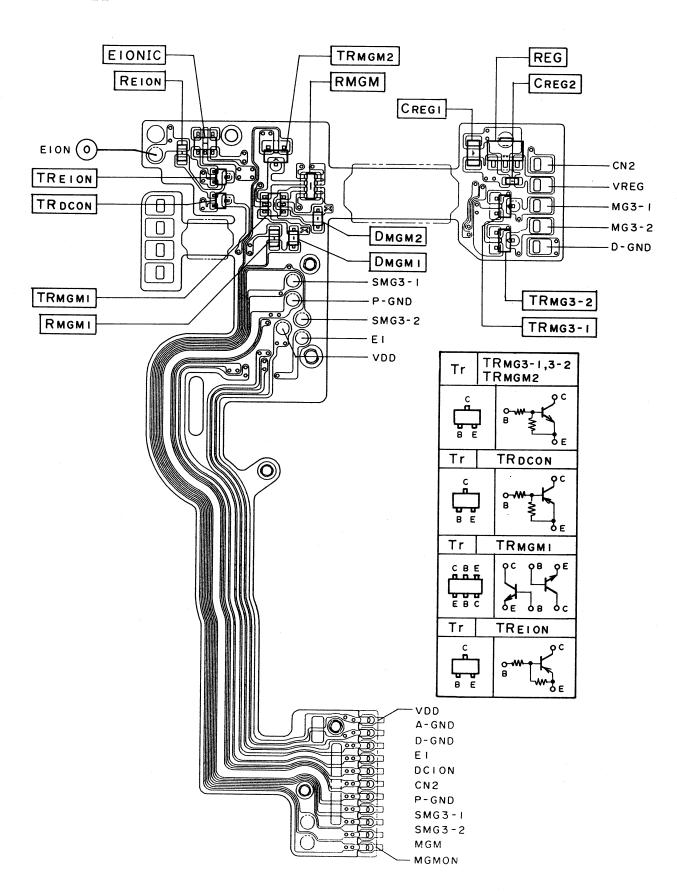
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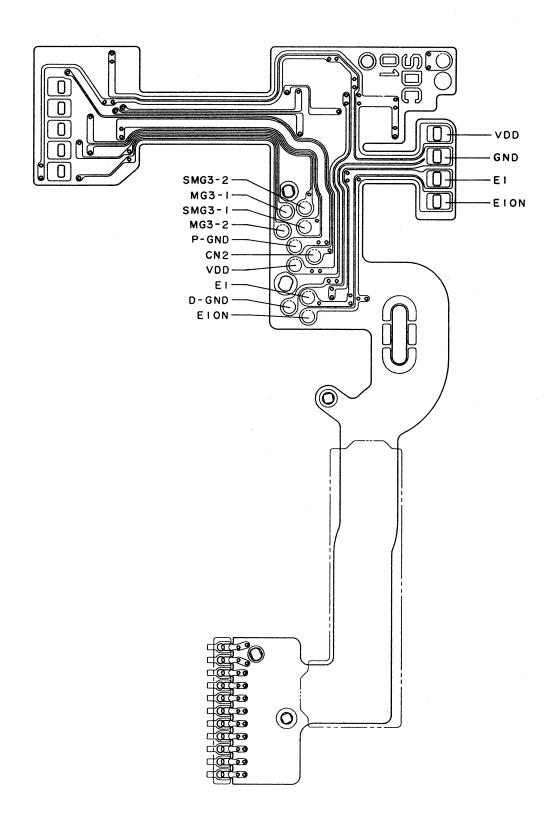


(MI FLEX)



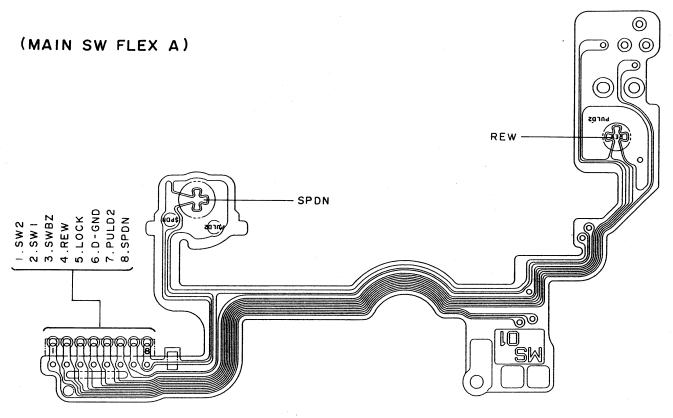
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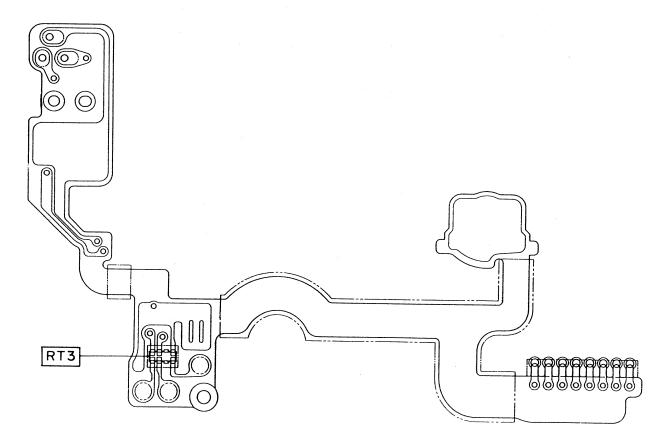


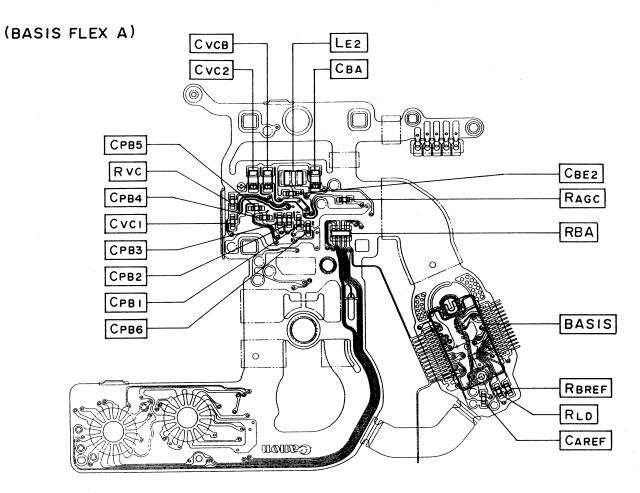
P.C.B. DIAGRAM



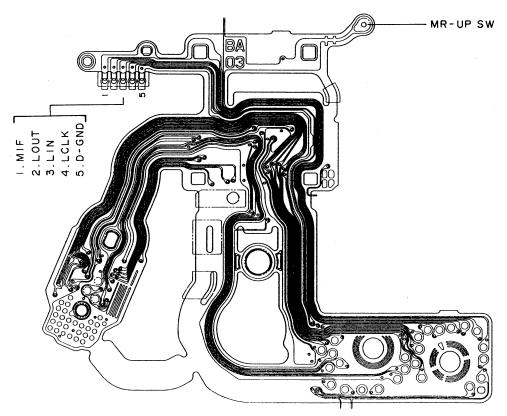


(MAIN SW FLEX B)

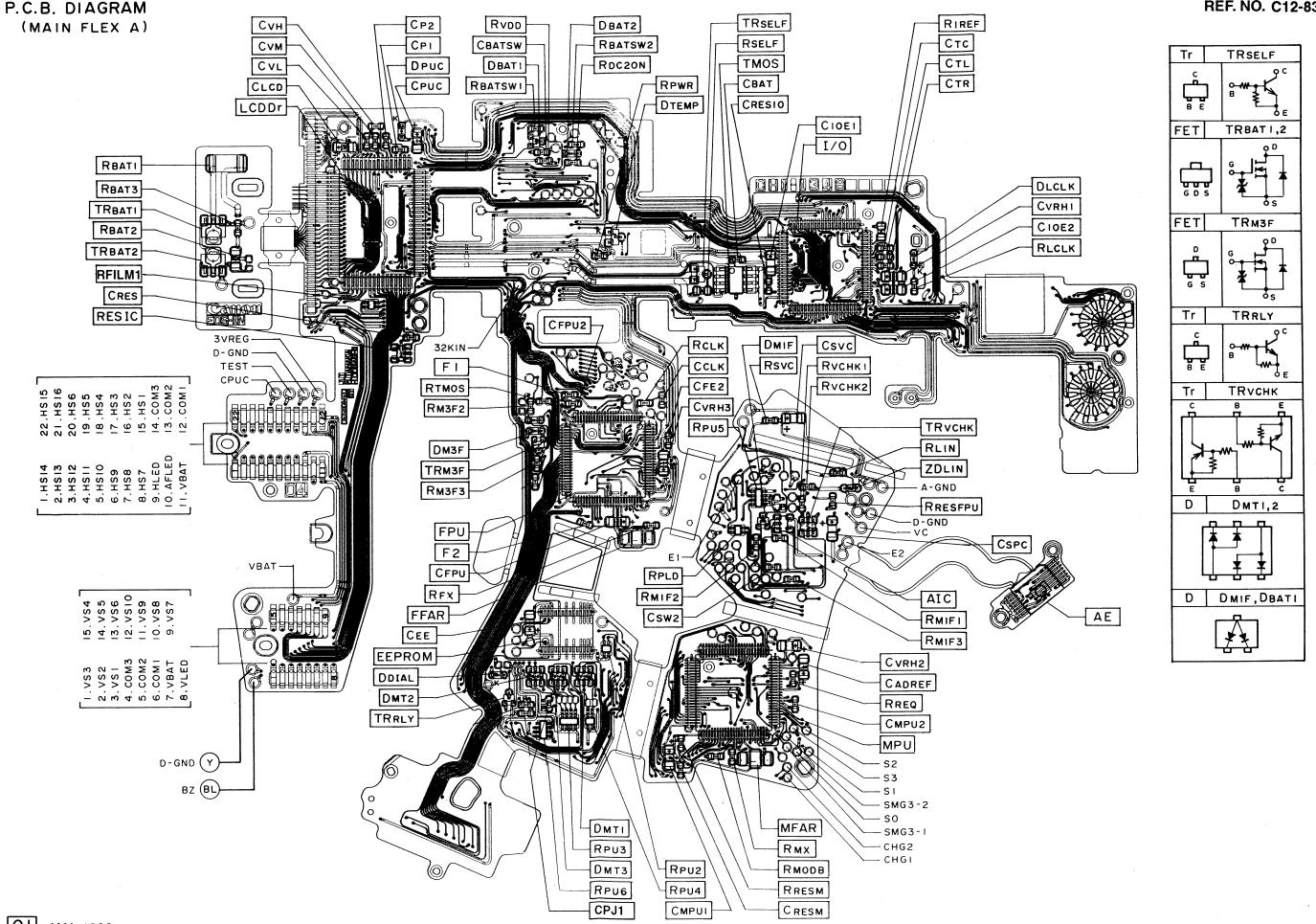


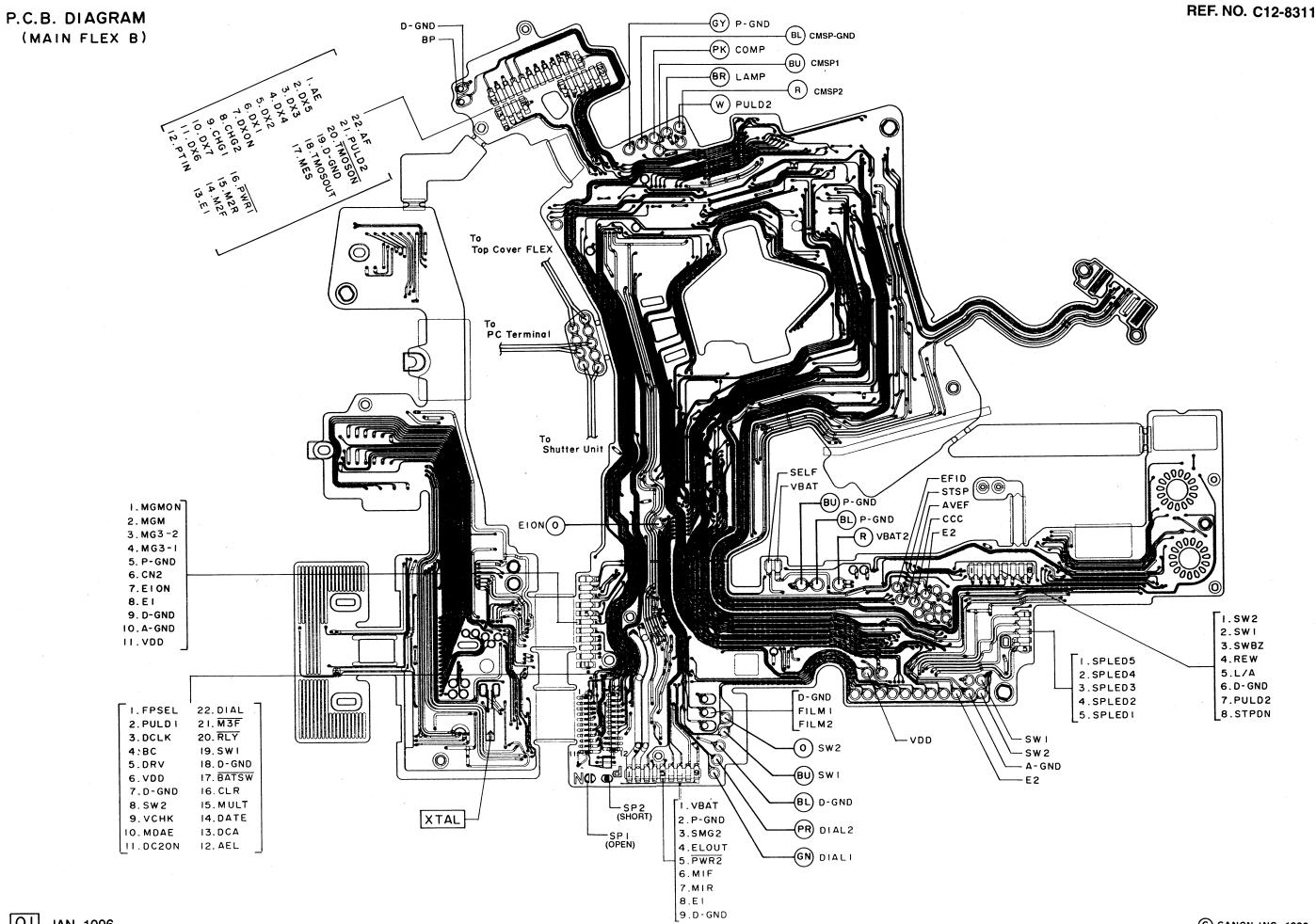


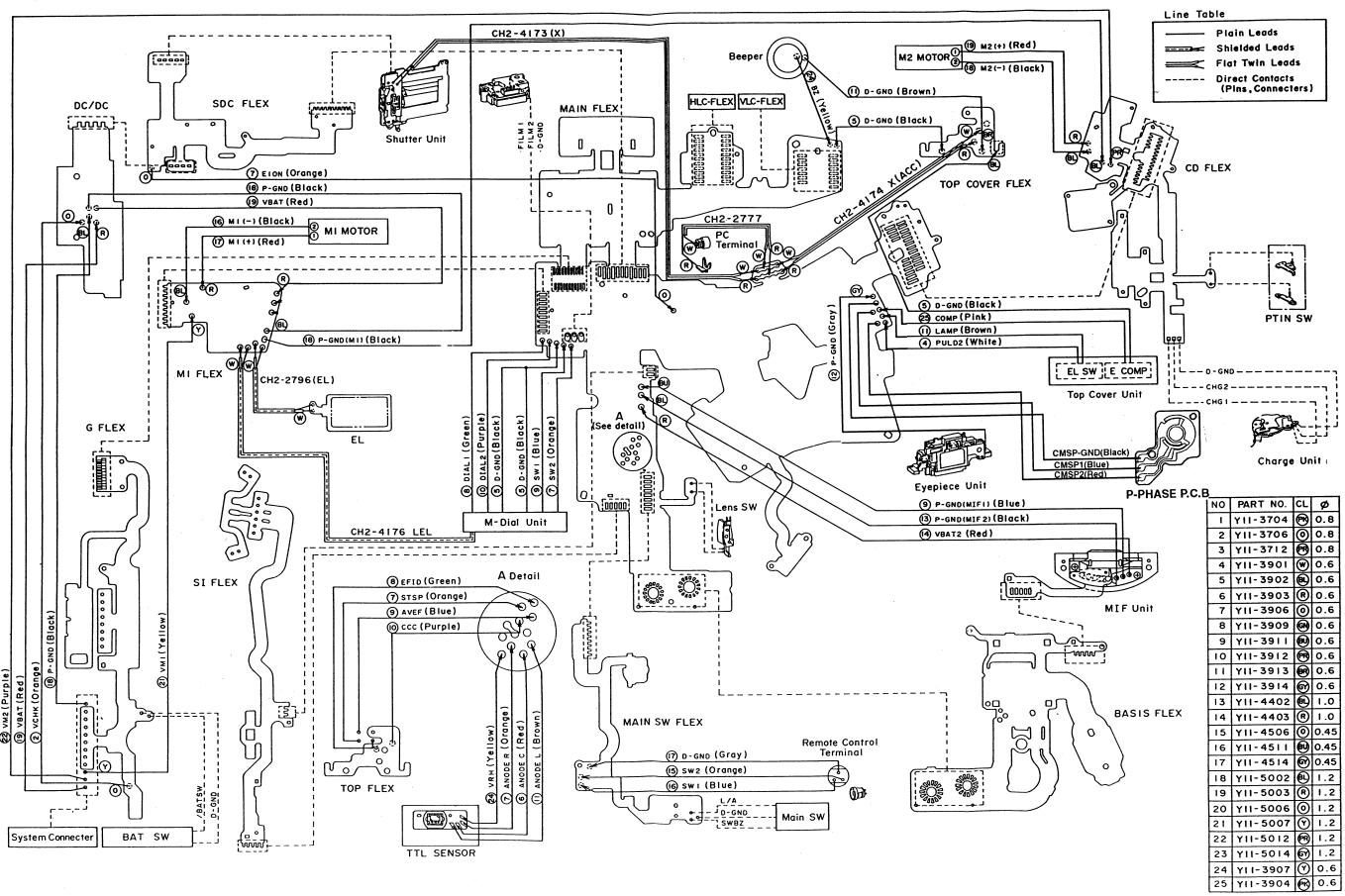
(BASIS FLEX B)











Appendix

Photo Products Quality Assurance Division, Canon Inc.

Report No.

STR-176

Date

1995.03

Service Tool New Addition

1.Specifications

Order No.

Name

Purpose

CY9-6151-000 SPANNER,EOS-1N RS

For removal of PDB.from EOS-1N RS

2.Applied on:

EOS-1N RS

C12-8311

