

CODE NO.	ITEM
C12-1821-881	Canon AL-1 w/lens New FD 50mm f/1.8
C12-1821-861	Canon AL-1 w/lens New FD 50mm f/1.4
C12-1821-211	Canon AL-1 body only

Canon

AL-1

QF Quick Focus

**Quick-Focus system plus automatic exposure control.
Technology brings a new dimension to SLR photography.**



Specifications

Type: 35mm SLR (Single-lens Reflex) camera with aperture-priority AE and built-in "Quick Focus" system.

Image Size: 24 x 36mm

Usable Lenses: Canon FD lenses (for full aperture metering), and most FL lenses (for stopped-down metering).

Standard Lenses: New FD 50mm f/1.8, 50mm f/1.4 or 50mm f/1.2.

Lens Mount: Canon Breech-lock mount.

Viewfinder: Fixed eye-level pentaprism.

Field of View: 92% vertical and 93% horizontal coverage of the actual picture area.

Magnification: 0.87X at infinity with a standard 50mm lens.

Standard Diopter: -1.0dpt.

Focusing Screen: All laser matte with focus frame for ranging.

Finder Information: Focus frame, focusing indicators, meter needle and shutter speed scale, over/under exposure warning marks, battery check/camera shake warning index.

Eye-piece Correction: Ten powers (-4 to +3) provided by Diopter Adjustment Lenses S.

Quick Focus System: TTL sharpness detection using 3 CCD line sensors; focusing information is calculated and displayed by microcomputer.

Focusing Indicators: 3 LED (Light Emitting Diode) display;

Red ◀ ... Out of focus (front)

Green ● ... In focus

Red ▶ ... Out of focus (rear)

Ranging Illumination level: EV 3.5 to EV 18 (ASA 100, ISO 100/21°).

Light Metering System: Through-the-lens (TTL), center-weighted average by silicon photocell (SPC).

Meter Coupling Range: EV 1 (1 sec. at f/1.4) to EV 18 (1/1000 sec. at f/16) with ASA 100, ISO 100/21° film and 50mm f/1.4 lens.

Shutter: Cloth, dual roller focal plane shutter. Electronically controlled.

Shutter Button: Electromagnetic, two-step release. Pressing it halfway

activates the meter and quick focus system; pressing it all the way operates the shutter. With lock and cable release socket.

Shutter Speed: Automatically controlled, steplessly, from 2 sec. to 1/1000 sec. Manual settings for 1/1000, 1/500, 1/250, 1/125, 1/30, 1/15, "B" and X-synchronization speed of 1/60 sec. with flash units other than Canon dedicated Speedlite.

Film Speed Dial: ASA 25 to ASA 1600

Exposure Correction: Shutter speed is automatically reduced 1.5 steps to increase exposure by pressing backlight control switch.

Mirror: Large, shockless instant-return type with pattern.

Self-timer: Electronically controlled. Ten second time lag activated by pressing shutter button. Red LED flashes to indicate operation; flashing frequency increases two seconds before shutter release. Cancellation possible.

Automatic Flash Control: Possible with Canon dedicated Speedlites.

With selector dial at A, shutter speed set to 1/60 sec.

automatically. Aperture set manually on aperture ring to same aperture set on flash.

Camera Back: Fixed. Opened by pulling up rewind crank.

Film Loading: Via multi-slot take-up spool.

Film Advance Lever: Single-stroke 120° throw with 30° stand-off. Winding with several short strokes possible.

Frame Counter: Additive type. Automatically resets to "S" upon opening camera back.

Film Rewind: By pressing film rewind button and cranking rewind knob.

Power Source: 2 AAA size 1.5V alkaline batteries.

Battery Check: Meter needle/power level index method. By pressing battery check button.

Size: 142.1(W) x 86.5(H) x 47.6(D)mm (5-9/16" x 3-3/8" x 1-7/8")

Weight: 490g (17-5/16 ozs.) body only. 684g (24-1/8 ozs.) with New FD 50mm f/1.8 and batteries.

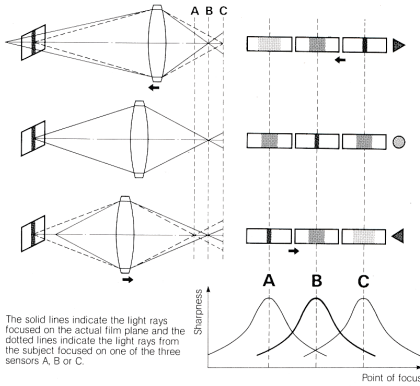
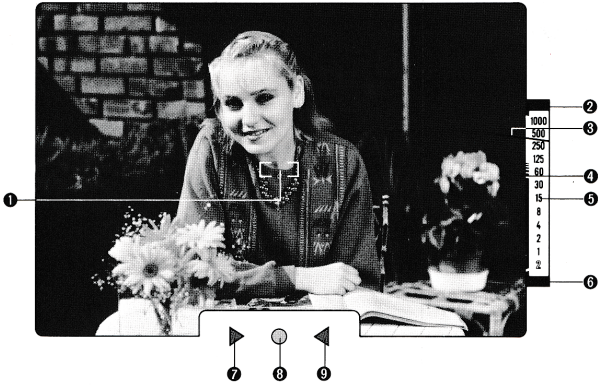
Subject to change without notice.

SELLING POINTS

Canon's Quick Focus System Points the Way to Sharply Focused Pictures

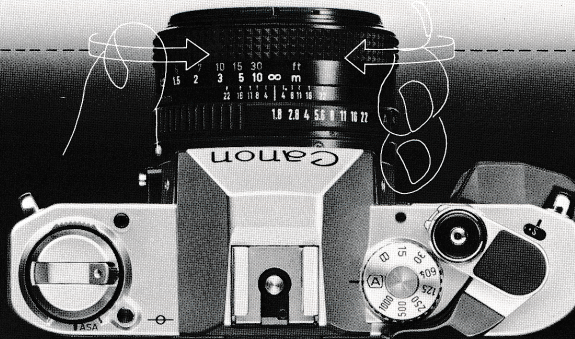
"All you have to do is focus and shoot", camera ads frequently proclaim. But what if your customer, due to either inexperience or eyesight problems, can't focus well? Canon, well aware of the problem, set itself the task of developing an electronic focusing system which would aid the photographer in producing sharp, blur-free pictures. The result is the QF (Quick Focus) System.

The QF system is easy to use. Aim the camera so that the focus frame in the center of the viewfinder covers the subject. Now press the shutter button lightly. One of three indicators will light below the image. The red ► indicates that the point of focus is beyond the subject and that the lens' focusing ring should be rotated to the right, while ◀ tells you that you are focused in front of the subject. Turn the ring to the left. When the subject is in sharpest focus a green ● lights. Press the shutter button all the way to take the picture. The system is fast and accurate and — a great advantage — functions with any FD lens. Here's how it works: Light from the lens passes through the patterned mirror to a sub-mirror behind. It then travels to a bank of 3 CCD line sensors at the bottom of the camera via a triple beam splitter. Image contrast data obtained from the sensors are computed by a microcomputer which then transmits instructions to the LED focusing indicators in the finder.

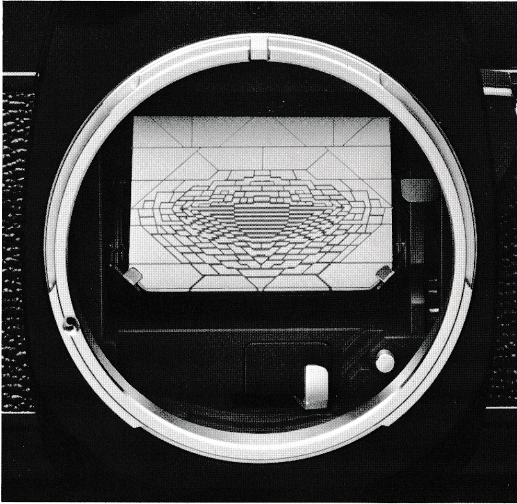


The solid lines indicate the light rays focused on the actual film plane and the dotted lines indicate the light rays from the subject focused on one of the three sensors A, B or C.

- 1 Focus frame
- 2 Overexposure warning mark
- 3 Meter needle
- 4 Battery check/camera shake warning index
- 5 Shutter speed scale
- 6 Under exposure warning marks
- 7 Out-of-focus indicator (focus beyond the subject)
- 8 In-focus indicator
- 9 Out-of-focus indicator (focus in front of the subject)



SELLING POINTS



Patterned Main Mirror

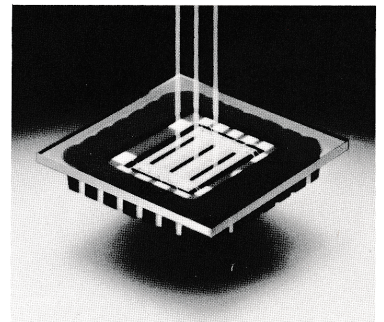
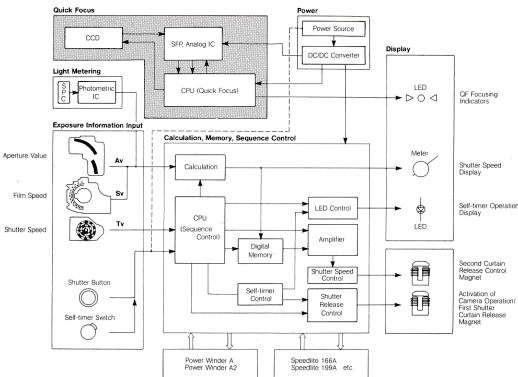
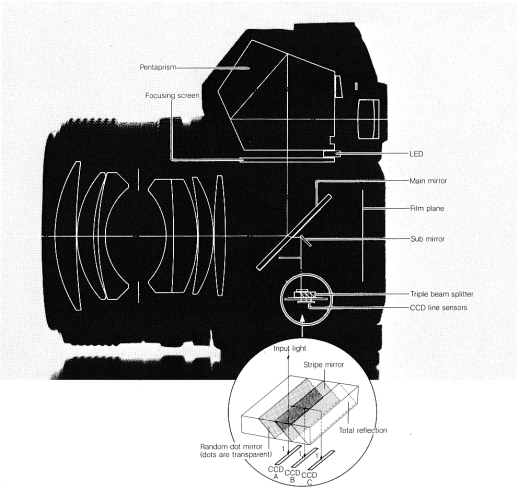
The main mirror is inscribed with an intricate pattern of lines. These allow light to pass through to a sub-mirror behind and thence to the 3 CCDs for QF computation. The central area has a transparency of 45%, the mirror's reflectivity increasing progressively toward its edges. This design provides an ideal balance between the requirements of the Quick Focus system and the light distribution of the viewfinder. The finder itself is brighter than in the case of the half-mirror system utilizing a translucent partially reflective film.

Triple Beam Splitter

Comprising four microprisms with three reflective surfaces, the triple beam splitter separates the light into three equal parts as it passes through to the CCDs below. In this way, it correctly divides all types of light, ensures uniformity of the image characteristics for all three CCD sensors and guarantees that the contrast in front and rear directions is the same when the camera is in focus and also that ghost images won't affect the performance.

Three CCD Line Sensors

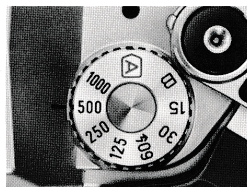
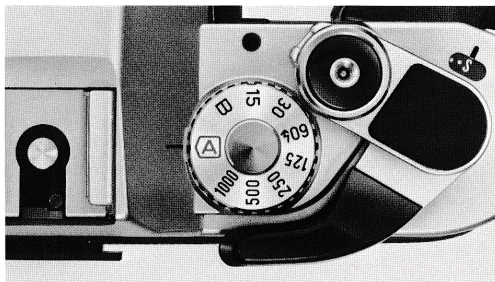
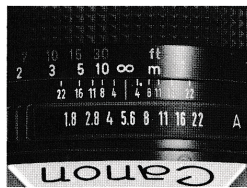
The QF system utilizes three CCD (Charge Coupled Device) line sensors to detect the image. The center line sensor is positioned so that the focus of the image formed on its surface corresponds to the one that will appear on the film. The two outer line sensors mutually compare the image contrast (the focus is sharpest when the image conditions before and behind the center line sensor are the same). The center line sensor ensures that false signals won't be generated when the image is extremely out of focus. Each CCD comprises 112 cells which divide the subject into minute sections then convert them into electrical signals. The signals are serially transferred to the SFP (Sharpness Function Processor) for analog processing and from there to the CPU, which commands the QF system and activates the LED indicators in the finder. The CCDs can measure even the tiniest of subjects and have a wider dynamic range with high sensitivity and low dark current. Moreover, they are highly reliable, producing neither electrical nor mechanical noises.



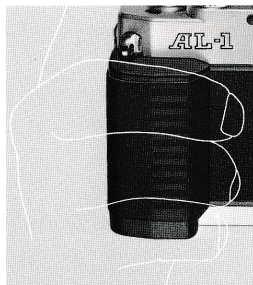
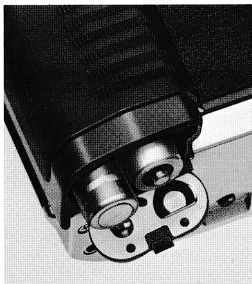
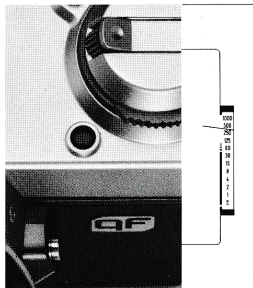
SELLING POINTS

Dual Exposure Modes: Aperture-priority AE + Manual Override

The AL-1 is an Aperture-priority AE SLR which also offers the option of Manual exposure control. Selecting the automatic exposure mode is a simple matter of turning the selector dial to A and choosing the desired aperture. Shutter speeds are electronically and steplessly controlled from 1/1000 sec. down to 2 full seconds. Aperture-priority AE is ideal for situations which call for a greater degree of control over depth of field. Indirect control of shutter speed is possible, too, by opening or stopping down the aperture for faster and slower speeds, respectively. Manual exposure is equally easy. The selector dial has a safety lock to guard against accidentally disengaging the A setting. To release the lock, depress the button on top and turn the dial to the desired shutter speed. Eight manual shutter speeds are available: 1/1000, 1/500, 1/250, 1/125, 1/60 $\frac{1}{2}$, 1/30, 1/15 and B. Turn the lens aperture ring to a suitable aperture. With aperture-priority AE for fast-moving scenes and manual override for situations requiring more creative attention, the AL-1 is clearly a significant step above the average "focus-and-shoot" camera. And the AL-1 owner can rest assured that the Quick Focus system will function perfectly in either mode.



SELLING POINTS



Backlight Control Switch

Conveniently positioned, this switch allows you to compensate when the sun or another light source is behind the subject. Press the button while taking the picture and the shutter speed will be automatically lowered 1.5 stops.

Battery Chamber

Considering its numerous QF and exposure functions, the AL-1 consumes surprisingly little power. Power for all functions is provided by two AAA-size 1.5V batteries, sufficient for approx. 30 rolls of 36-exp. film under normal temperature conditions.

Shutter Release/Self-timer

Risk of blurred photographs is further reduced by the soft-action electromagnetic shutter release. A finger rest reduces fatigue. As with others in the A-Series, pressing the button halfway provides a meter reading and, here, QF ranging as well. Depress the button all the way to take the picture. The shutter release also incorporates a 10-sec self-timer. An LED on the front flashes to indicate its operation.

Battery Check Button

Press this button to check the condition of the batteries. The viewfinder exposure meter needle will rise above the battery check/camera shake warning index if power is sufficient. The button can also be used to cancel the self-timer.

Film Speed Dial

The AL-1's film speed range is a wide ASA 25-1600. Press the lock release button and rotate the dial to the correct ASA setting for the film in use.

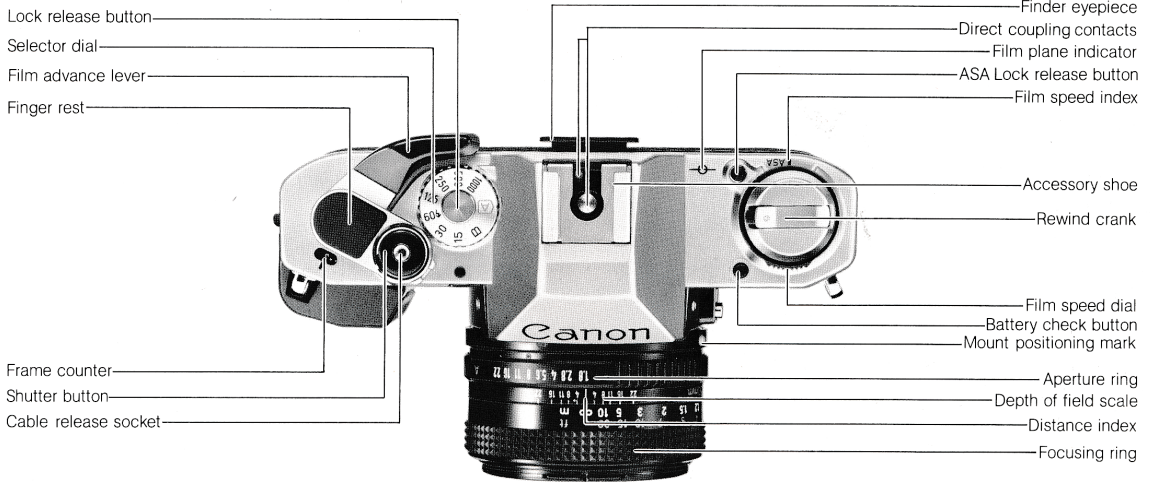
Action Grip

A new design, the grip is large and well-contoured so as to fit firmly and comfortably in your palm.

Canon's FD Lens System

The great advantage of owning a single-lens reflex camera is that its lenses are interchangeable. Canon, with its FD series, offers the AL-1 owner a choice of over 50 superlative interchangeable lenses running the entire focal length gamut from 7.5mm to 800mm. Depending on the particular purpose, there are wide-angle lenses which provide great depth of field and perspective, powerful telephotos for reaching distant subjects, handy all-purpose zoom lenses and special optics such as Macro and TS lenses for architectural and scientific applications. A common feature of them all, however, is their superb quality. Outstanding resolution and color balance, greater edge-to-edge sharpness and minimum flare and aberration are some of the many superior characteristics of Canon lenses. Moreover, their compactness and light weight make them easy to use.

NOMENCLATURE



MAIN ACCESSORIES

Speedlite 166A

The 166A is a dedicated Speedlite which provides error-free and pleasing flash results everytime. Switch the flash on and the AL-1 automatically sets the 1/60 sec flash sync. speed when the charge completion signal is issued. The 166A features two auto apertures, f/2.8 and f/5.6 (ASA 100, ISO 100/21°, ft.), and a manual setting. Guide number is 66 (ASA 100, ISO 100/21°, ft.). Other Canon Speedlites can be used with the AL-1, from the pocket-size 011A to the powerful grip-type 577G and Macrolite ML-1 for close-up work.



Power Winder A2

The Power Winder A2 provides automatic film advance at 2 frames per second and runs on four AA-size alkaline, carbon-zinc, or Ni-Cd batteries. Continuous film winding is possible by keeping the camera's shutter button depressed. The winder stops automatically when the end of the film is reached or the batteries become exhausted and red LED warning lamp lights.

Specifications

Type: Electronic computer flash unit with a series control system.
Contact: Clip-on type with direct contact and lock.
Guide Number: 66 (ASA 100, ISO 100/21°, ft.) or 33 (ASA 25, ISO 25/15°, ft.)
Flash Coverage Angle: Covers the field of a 35mm lens in the 35mm format.
Recycling Time: About 0.5 — 7 sec. with alkaline batteries and about 0.5 — 5 sec. with Ni-Cd batteries.
Number of Flashes: About 250 — 2500 times with alkaline batteries and about 80 — 800 times with Ni-Cd batteries.
Flash Duration: 1/1000 — 1/50000 sec.
Aperture Selection Switch: Three positions. Red (f/2.8), green (f/5.6) with ASA 100, ISO 100/21° film and MANU (manual).
Auto Shooting Distance Range: 0.5 — 7m (1.6 — 22 ft.).
ASA Film Speed Scale: ASA 25 — ASA 800.
Aperture Scale: f/1.4 — f/16.
Power Source: Four AA size carbon-zinc, alkaline or Ni-Cd batteries.
Size: 66 x 49.5 x 98mm (2-5/8" x 1-15/16" x 3-7/8").
Weight: 260g (9-3/16 ozs.) including batteries.

Subject to change without notice.

Specifications

Winding Speed: About 0.5 second.
Operation: Activated by the shutter button on the camera.
Shooting Mode: Single-frame (by releasing shutter button) and continuous power winding at approx. two frames per second.
Frame Counting: By the frame counter on the camera.
Automatic Cut-off Circuit: When the film is completely wound or if the batteries become exhausted, the winder will automatically stop and the warning lamp (LED) will light up.
Mounting: By using tripod socket on the camera.
Power Source: Four AA size 1.5V alkaline, carbon-zinc or Ni-Cd batteries.
Size: 140.8 x 27.5 x 53.4mm (5-9/16" x 1-1/16" x 2-1/8")
Weight: 275g (9-11/16 ozs.) including batteries.

Subject to change without notice.

ACCESSORIES

VIEWFINDER ACCESSORIES

CODE NO.	DESCRIPTION
5-40701-22	Magnifier S
5-41041-00	Magnifier Adapter S
5-40712-00	Angle Finder A-2
5-40711-00	Angle Finder B
5-59212-00	Eye Cup 4S

DIOPTRIC ADJUSTMENT LENSES

5-05072-00	Dioptric Adjustment Lens S (+3)
5-05073-00	Dioptric Adjustment Lens S (+2)
5-05051-00	Dioptric Adjustment Lens S (+1.5)
5-05075-00	Dioptric Adjustment Lens S (+1)
5-05076-00	Dioptric Adjustment Lens S (+0.5)
5-05041-00	Dioptric Adjustment Lens S (0)
5-05078-00	Dioptric Adjustment Lens S (-0.5)
5-05079-00	Dioptric Adjustment Lens S (-1)
5-05081-00	Dioptric Adjustment Lens S (-3)
5-05082-00	Dioptric Adjustment Lens S (-4)

EQUIPMENT FOR MOTORIZED PHOTOGRAPHY

C51-9331	Power Winder A set (w/Battery Pack, Soft Case)
C58-5411	Battery Pack A for Power Winder A
C51-9501	Power Winder A2 in Case

FLASH ACCESSORIES

C50-0441	Speedlite 011A Set in Case
C50-0371	Speedlite 133A Set in Case
C50-0311	Speedlite 155A Set in Case
C50-0421	Speedlite 185A Set in Case
C50-0361	Speedlite 177A Set in Case w/Wide Adapter
C50-0411	Speedlite 188A Set in Case w/Wide Adapter
CA4-2332	Wide Adapter for 188A and 177A
C50-0321	Speedlite 199A Set in Case w/Wide Adapter
C50-1481	Wide Adapter for 199A
C50-1431	Battery Magazine D
C50-1441	Synchro Cord A
C50-0301	MacroLite ML-1 Set
Y12-6725	Wide Adapter ML-1
Y19-0165	MacroLite Adapter 55
Y19-0166	MacroLite Adapter 52
Y12-6756	Tightening Ring 55
Y12-6758	Tightening Ring 52
C50-0381	Speedlite 533G Set
C50-0391	Speedlite 577G Set
C50-1561	Battery Magazine 533G
C50-1501	One-Touch Bracket G
C50-1491	Sensor Unit G20
C50-1482	Sensor Unit G100
C50-1541	Wide Adapter 533G-24
C50-1543	Wide Adapter 577G-24
C50-1542	Wide Adapter 533G-20
C50-1544	Wide Adapter 577G-20
C50-1545	Tele Adapter 533G
C50-1546	Tele Adapter 577G
C50-1547	Adapter G for Motor Drive MF
C50-1571	Battery Magazine TP
C50-1581	Ni-Cd Pack TP
C50-1557	Ni-Cd Charger TP
C50-1521-221	Transistor Pack G Set (consists of Ni-Cd Pack TP, Ni-Cd Charger TP and Power Cord)
C50-1521-311	Transistor Pack G Set (consists of Battery Magazine TP and Power Cord)

MISCELLANEOUS ACCESSORIES

CODE NO.	DESCRIPTION
5-03111-00	Camera Holder F
C-50-3151	Camera Holder F4
5-63061-00	Release 30
5-63062-00	Release 50
C58-5471-011	Canon External Battery Pack A Set
C58-5471-001	Canon External Battery Pack A
CG4-0014	Battery Cord C-A
CG4-0015	Battery Cord PW
9-00700	The ABC's of Picture-Taking Ease

CASES

C46-1151	Case S for AL-1 (FD 50mm f/1.8 and FD 50mm f/1.4)
C46-1152	Case L for AL-1 (FD 50mm f/1.2, FD 50mm 1.20)
4-10000-S1	Compartment Case A
4-10000-S3	Compartment Case DL

MACROPHOTO & CLOSE-UP ACCESSORIES

4-20601-20	Copy Stand 4
C42-0611	Copy Stand 5
4-25901-03	Handy Stand F52 Set
4-46201-20	Photo Micro Unit F
4-25117-00	Macro Hood
4-25301-00	Extension Tube A
4-25302-00	Extension Tube B
4-25303-00	Extension Tube C
4-25323-01	Extension Tube FD 50 Universal in Case
4-25324-01	Extension Tube FD 25 Universal in Case
4-25325-01	Extension Tube FD 15 Universal in Case
4-25315-00	Extension Tube FL 15
4-25321-00	Extension Tube FL 25
C42-6611	Vari-Extension Tube M15-25
C42-6612	Vari-Extension Tube M30-55
4-25316-01	Extension Tube M Set
4-25316-00	Extension Tube M5
4-25317-00	Extension Tube M10
4-25322-00	Extension Tube M20
4-25711-00	FL58 Macrophoto Coupler
4-25721-00	FL55 Macrophoto Coupler
C42-5731	FL52 Macrophoto Coupler
5-42011-00	Lens Mount Converter A
5-42021-00	Lens Mount Converter B
5-42031-00	Lens Mount Converter E
5-42071-00	Lens Mount Converter P
0-00000-33	Lens Mount Converter N
5-43231-01	58 Close-Up 450
5-43241-01	58 Close-Up 240
5-43251-01	48 Close-Up 450
5-43331-01	48 Close-Up 240
5-43671-00	55 Close-Up 450
5-43661-00	55 Close-Up 240
C54-3741	52 Close-Up 450
C54-3731	52 Close-Up 240
5-59042-20	Bellows FL
5-59181-02	Slide Duplicator 52
5-59181-01	Slide Duplicator 55
43-6370	Attachment Ring 48 for Slide Duplicator
CA4-2418	Attachment Ring 52 for Slide Duplicator
43-6371	Attachment Ring 55 for Slide Duplicator
43-6372	Attachment Ring 58 for Slide Duplicator

CODE NO.	DESCRIPTION
C26-1151	Macrophoto Lens 20mm f/3.5 in Case
C26-1161	Macrophoto Lens 35mm f/2.8 in Case
C55-9044	Auto Bellows
C42-6501	Macro Auto Ring
C42-6511	Double Cable Release
C42-6521	Focusing Rail
C42-6541	Macro Stage
C55-9182	Duplicator 35-52R
C42-6571	Roll Film Stage
C42-6581	Duplicator 8
C42-6591	Duplicator 16
C42-6681	Duplicator G
C42-6693	Macrophoto Adapter MA-58
C42-6692	Macrophoto Adapter MA-55
C42-6691	Macrophoto Adapter MA-52

BODY COVER

C45-2031	Camera Cover R-F
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STRAP

5-61141-00	Neck Strap 7 with Pad
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PLEASE NOTE: For further information on accessories please see the sections as follows:

Sect. 2:	Canon Interchangeable Lenses
Sect. 3:	Canon F-1 System and SLR Accessories
Sect. 6:	Miscellaneous Accessories Cross-Referenced (including Canon Filters, Cases, etc.)