



Canon AF310XL-S AF310XL

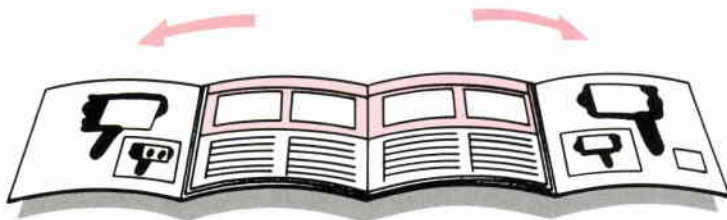


INSTRUCTIONS
English Edition

Introduction

Congratulations on your purchase of the Canon AF310XL-S (sound) or the AF310XL (silent). Whether you're an experienced photographer or a beginner, you'll find that these are some of the most portable and fun-to-use movie cameras ever made. Both cameras are autofocus, which means you never have to worry about turning a focusing ring. Naturally

you're anxious to start filming. But before you do, take some time to read through this instruction booklet. Only through full understanding of the camera's functions can you get maximum enjoyment from your new Canon. The first and last pages show the cameras' parts. While reading, be sure to unfold these pages for easy reference.



Nomenclature

- 1 Footage Counter
- 2 Boom Microphone Contact Shoe (AF310XL-S only)
- 3 Main Switch/Battery Check Switch
- 4 CCA Filter Switch
- 5 Autofocus Windows
- 6 Manual Zooming Lever
- 7 Shutter Release Lever
- 8 Grip/Battery Chamber
- 9 Power Zooming Switch
- 10 Neckstrap Ring
- 11 Eyecup



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SIMPLE STEPS FOR NORMAL FILMING



1 Remove the lens cap.*

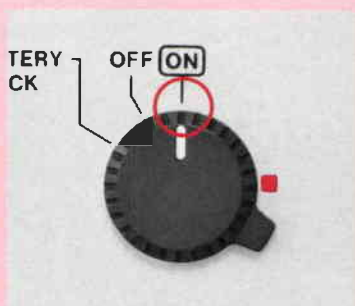
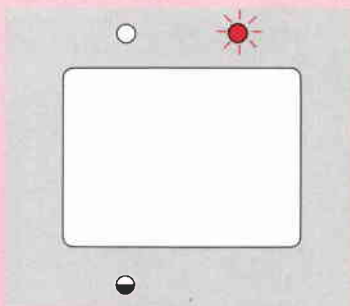
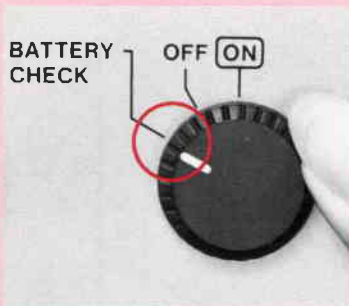
*Dispose of the white protective ring before loading the batteries and using the camera.



2 Unfold the grip.



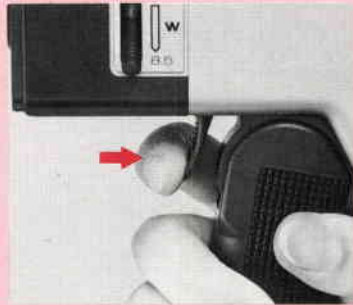
3 Load the batteries.



4 Check the batteries.

If the battery check/underexposure warning indicator lights up, battery power is sufficient.

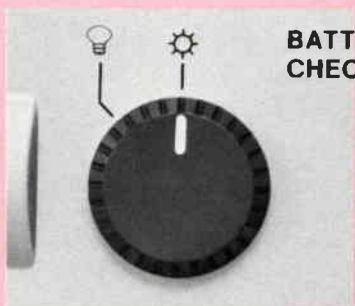
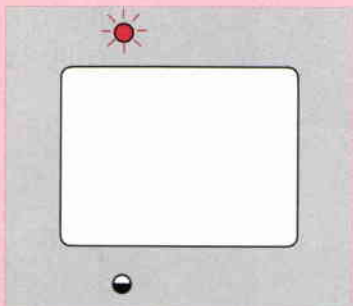
5 Set the main switch to **ON**.



6 Attach and extend the microphone.

7 Check recording level by depressing the shutter release lever halfway.

Steps 6 and 7 for Sound Filming with AF310XL-S Only
FOR SILENT FILMING, PROCEED TO STEP 8



If the recording level indicator blinks on and off, sound will record correctly.

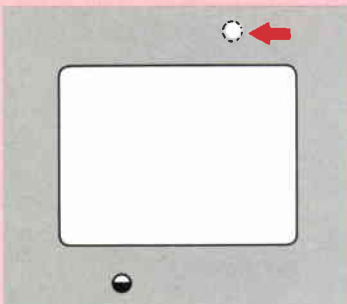
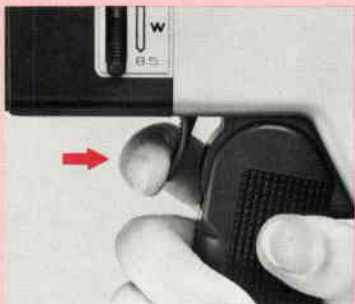
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Load the film cartridge.*

*Dispose of the plastic insert in the bottom left-hand corner of the AF310XL-S's film chamber before loading a cartridge.

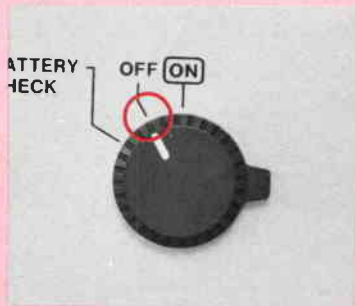
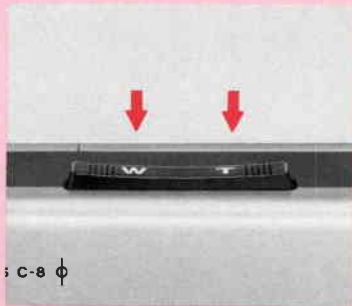
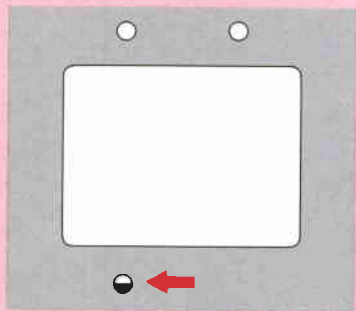
9

Check the CCA filter switch.



10 Check exposure by depressing the shutter release lever halfway. If the underexposure warning indicator does not light up, exposure will be correct.

11 Compose your picture and depress the shutter release lever all the way to begin filming. Your subject will be focused automatically.



Film transport indicator should move up and down when filming.

12 Zoom automatically (or manually) as desired.

13 Turn the main switch OFF when filming has been completed.



FUNCTIONS AND OPERATION OF THE CAMERA



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1. Grip

Your AF310XL-S/AF310XL is built with a collapsible grip ⑧. To hold the camera, unfold the grip until it locks into place. To refold the grip, simply push it up until it clicks into the folded position.



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2. Loading the Batteries

IMPORTANT:

These cameras will not work without the correct batteries. For proper functioning of your camera, read this page carefully.

Correct Batteries

Use three (for AF310XL) or four (for AF310XL-S) 1.5V (size AA) penlight batteries of the same type and brand. Alkaline (LR6) and Ni-Cd penlight batteries are recommended for filming in very low temperatures.

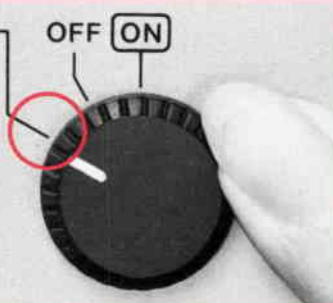
1. Wipe the battery terminals with a clean, dry cloth before loading them. Dirty batteries may cause poor contact.

2. Unfold the grip and remove the battery chamber cover ⑦ by pressing your thumb in the direction of the arrow.
3. Load the batteries, making sure to place them in the correct \oplus \ominus order which is indicated on the front of the grip. Neither camera will operate when the batteries are loaded incorrectly.
4. To replace the battery chamber cover, slide it, while pressing down, in the reverse direction of the arrow.

A set of new size AA penlight batteries will last through normal filming of about five cartridges. Battery life may vary depending on how often you use power zooming, whether or not you use sound cartridges, and what brand of batteries you use.

**BATTERY
CHECK**

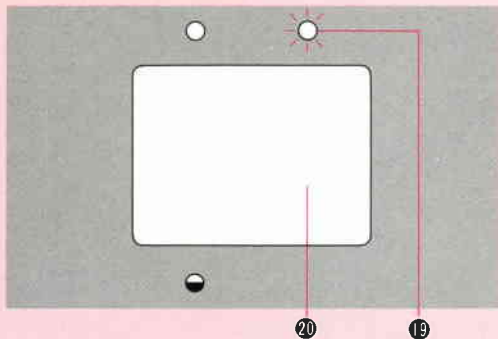
OFF ON



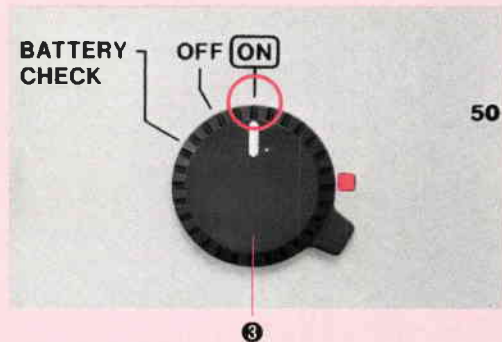
3. Checking the Batteries

It is impossible to film correctly if the batteries are weak. Check battery power regularly, and carry a spare set when traveling or filming an important event.

1. Rotate the main switch ③ to the battery check mark.



2. Look into the viewfinder 20 while holding the switch in place.
3. If the battery check/underexposure warning indicator 19 lights up, battery power is sufficient. If the light fails to appear, replace all batteries with new ones.

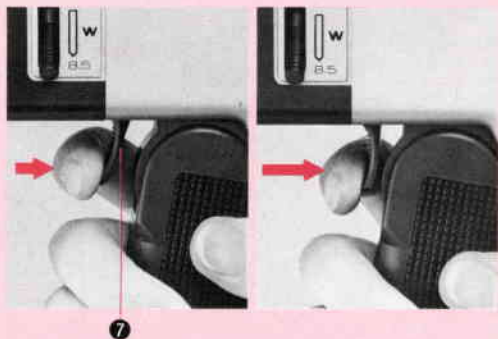


4. Main Switch

To begin filming, set the main switch 3 to **ON**.

IMPORTANT:

To prevent battery waste, always turn the main switch to OFF when you are not filming. When the main switch is set to **ON**, the camera continues to use power. The red mark to the right of the switch warns you when the camera is still set to **ON**.



5. Shutter Release Lever

The AF310XL-S and AF310XL both have a two-step shutter release lever. Picture is usually composed in such a way that the subject of main interest covers the center of the viewfinder. By pressing the shutter lever ⑦ HALFWAY, the following functions take place:

1. The exposure is metered.
2. The recording level is checked. (With AF310XL-S)
3. The autofocus system is activated.*

What happens?

1. You'll hear a slight, steady motor sound.

2. In the viewfinder, the film transport indicator ② will NOT move.

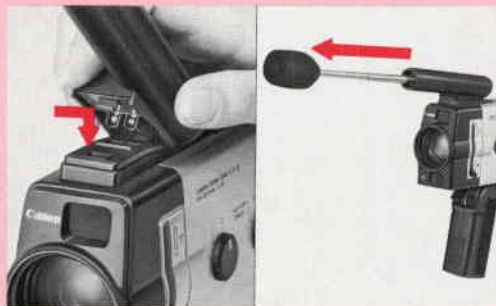
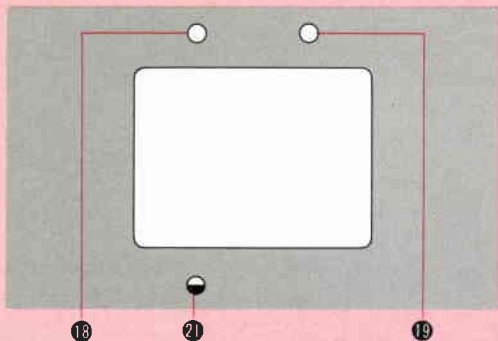
By pressing in the shutter lever ALL THE WAY, filming begins.

What happens?

1. You'll hear the motor along with the sound of the film being transported.
2. You'll see the film transport indicator moving up and down in the viewfinder.

Learn to distinguish between the two steps. Practice releasing the shutter lever (without film in the camera) until you feel completely comfortable with its use.

*When you depress the shutter lever halfway, the focus is fixed at the distance of the subject toward which you have pointed the camera. Thus, if you move the camera while still holding the shutter lever in the halfway position, place your subject where you want it to be, i.e. not in the center of the viewfinder, focusing remains fixed at the subject distance the camera has memorized the first halfway. This method is called pre-focusing. Please see p. 29 for the detailed procedure.



6. Viewfinder

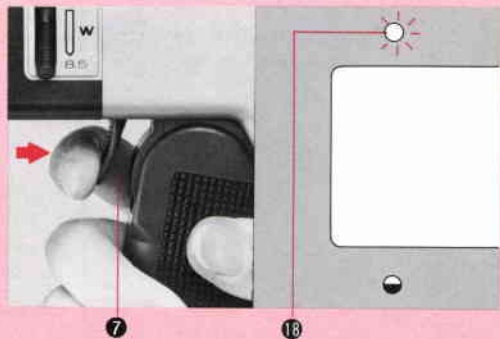
Both cameras have bright viewfinders with easy-to-see indicators. The recording level indicator 18 (for the AF310XL-S only) is located in the top left-hand corner. The film transport indicator 21 is in the bottom left-hand corner. You'll find the battery check/underexposure warning indicator 19 in the top right-hand corner.

THE FOLLOWING FOUR STEPS REFER TO SOUND FILMING PROCEDURES WITH THE AF310XL-S ONLY

7. Attaching the Microphone

Push the microphone in and then down as indicated in the picture. Then slowly extend the microphone to its full length. Generally, it is best to keep the microphone fully extended when making sound films. The microphone may pick up unnecessary noise from the camera's motor if kept in its retracted position during filming.

If you have the AF310XL, or are making silent films with the AF310XL-S, proceed to page 21.



8. Checking the Recording Level

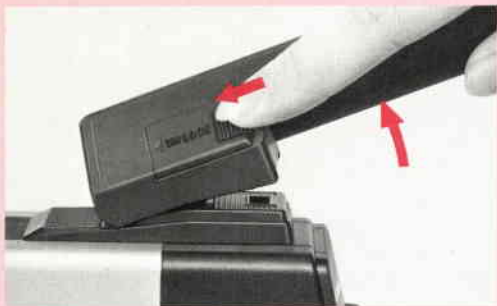
To check the recording level, depress the shutter lever ⑦ halfway. If the recording level indicator ⑧ in the viewfinder blinks clearly on and off with each sound made, then you may begin filming (i.e., the sound will record correctly). However, if the recording level indicator flashes only sporadically or not at all, move in closer to the source of sound.

A word of caution: Sometimes when you have zoomed in on your subject it appears quite close. But the microphone can't catch far away subjects as the lens can. Again,

move in closer if the recording level indicator isn't flashing.

Notes:

1. Canon's Dynamic Microphone DM 40R and Electret Condenser Microphone CM100 are useful in more demanding sound recording situations. The Microphone Extension Cord E 450Y may be used with these microphones to extend the distance between the camera and the sound source. All three accessories are available separately.
2. When the above microphones are used with the AF310XL-S, the BM 30D's recording function is cancelled.
3. Remote control by way of an accessory microphone is impossible with the AF310XL-S.



9. Detaching the Microphone

Push in the microphone's unlock lever in the direction of the arrow to detach it from the camera.

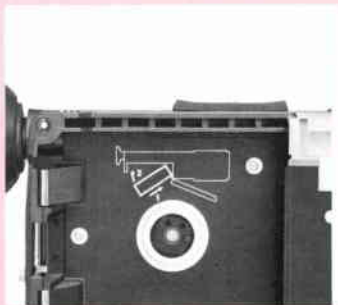
For carrying convenience, attach the microphone in the opposite direction so that it fits on top of the camera body (see picture above).

Note:

Do not try to carry the camera by the microphone.



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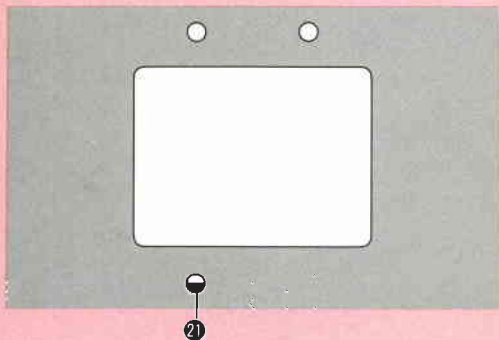


10. Loading the Film

The AF310XL-S accepts both sound and silent film cartridges (Type A or G), while the AF310XL accepts only silent cartridges (Type A or G).

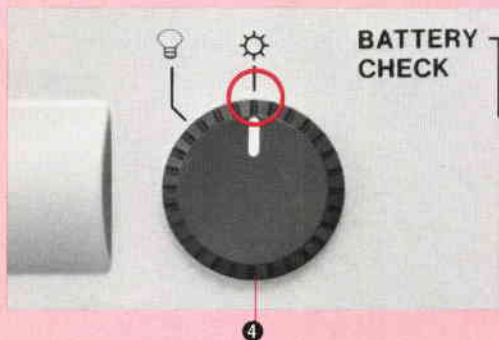
To load the film, press the film compartment release knob 12 all the way down until it locks into place. Then pull the side cover open. (You may have to press the release knob down a bit more to fully release the side cover.) Hold the film upright with its label facing you, and insert the right side of the cartridge first. Press in the other side so that the cartridge fits securely into the compart-

ment. Close the side cover until it snaps shut. By looking through the film compartment window 13 you can tell whether or not film is loaded, and if so, what kind it is.



11. Checking Film Advance

To ensure that the film is advancing correctly, press the shutter release lever in all the way and look through the viewfinder. The film transport indicator ②1 should move up and down. If it doesn't, remove the cartridge and turn the spindle on the side of the cartridge clockwise to take up film slack. Then reload the cartridge.

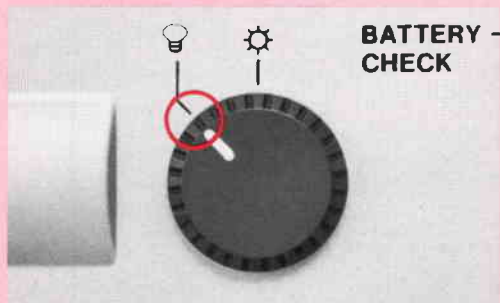


12. Setting the CCA Filter Switch

Two types of Super 8 sound and silent films are available:

1. Type A (tungsten) film for filming in artificial tungsten light.
2. Type G (general-use) film for filming in either artificial or natural lighting.

If you were to use Type A film in daylight without a filter, the movie would have a bluish tinge. Thus, both cameras have a built-in CCA filter, which will give Type A film natural colors whether used in artificial or natural lighting.



The CCA filter switch ④ has two positions: a sun symbol ☀ and a bulb symbol 💡. Set the switch according to the following table.

Film Type	Light Source	
	Daylight	Artificial Light
Type A	☀	💡
Type G	💡	

In other words, when using Type A film, set the CCA filter switch to the symbol which corresponds to the type of lighting in which you are filming. Type A is probably the most widely used film type. With Type G film, set the switch to the 💡 position, regardless of the lighting source.

Note:

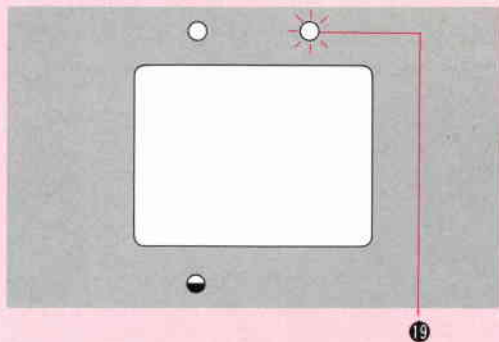
Film type (G or A) is indicated on the film carton and cartridge. Don't forget what type of film you've loaded.



13. Holding the Camera

Hold the camera steadily to avoid shaky and blurred movies. Put the strap around your neck or shoulder and hold the camera firmly with your right hand. Use your left hand for steadying the upper part of the camera and for zooming. Press your right elbow against your body and keep your feet slightly apart, one ahead of the other.

When panning to follow your subject's movement, shift only the upper part of your body. The ideal, when possible, is to mount the camera on a tripod.



Notes:

1. These cameras cannot be used with some very large tripods.
2. The neckstrap can be attached to the camera as well as the case.

14. Checking the Underexposure Warning Indicator

Check the underexposure warning indicator by pressing the shutter lever 7 in halfway. The AF310XL-S/AF310XL both have bright f/1.0 lenses which enable you to film in most dimly lit conditions. However, when the underexposure warning indicator 19 lights up, exposure will not be correct. To avoid underexposure, add more light, or switch to a film with a higher ASA rating. For best results, we recommend that you use film with an ASA 40 rating for daylight and an ASA 160 rating for low-light filming.



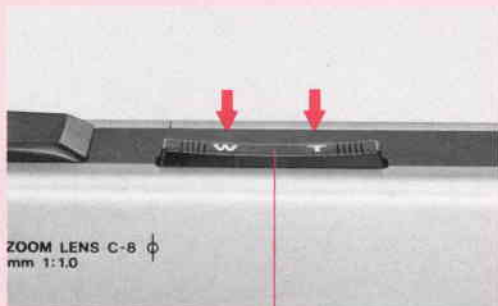
Note:

If you ever find yourself filming outdoors on a very bright day with high-speed film, attach an ND filter to the lens (43mm diameter). The ND filter helps prevent overexposed movies. Never attach more than one filter at a time.

15. Composing the Picture and Zooming

Zooming

Both cameras are capable of continuous zooming over the lens's variable focal length of 8.5 to 25.5mm. If used moderately, zooming makes filming more enjoyable and effective. There are two kinds of zooming: power and manual.



9



6

Power Zooming

Pressing the power zooming switch 9 during filming activates zooming automatically.

1. Press "T" to enlarge the subject.
2. Press "W" to make the subject smaller.

It takes about seven seconds to zoom between "T" and "W" and vice-versa. Power zooming is possible only when the shutter lever is pressed in all the way.

Manual Zooming

Use the manual zooming lever 6 whenever you want to zoom faster or slower than the constant speed of power zooming. Manual zooming is especially convenient for composing or trimming the picture.

Notes:

1. Use manual zooming as much as possible when zooming in low temperatures.
2. Too much zooming in a single film can have a dizzying and monotonous effect. Likewise, too much panning in the course of one film has a tiring effect.



Fig. A



Fig. B

16. Autofocus Filming

Focusing is automatic with the AF310XL-S and AF310XL. To focus the majority of subjects, simply point the camera toward your subject to begin filming. Make sure the subject covers the center of the viewfinder. Then depress the shutter release lever all the way. When correctly centered in the viewfinder, ordinary subjects present no problems for the autofocus system. There are some subjects, however, which require special attention when filming. These subjects can be divided into four categories.

I. SUBJECTS NOT SUITED FOR THE AUTOFOCUS SYSTEM

1. Subjects which have little or no reflectance (black hair, fire, fireworks, blackout curtains, etc.)
2. Subjects with very glossy or shiny surfaces (exterior of a car, glass)
3. Subjects with an object in front of them (an animal in a cage)

II. SUBJECTS WHICH ARE NOT IN THE CENTER OF THE VIEWFINDER

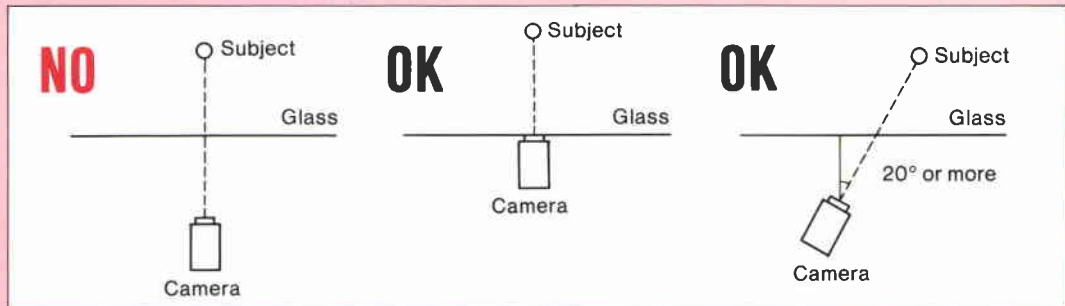


Fig. C

To bring subjects falling within these two categories into correct focus, PREFOCUS them as follows:

1. Find a substitute subject which is the same distance from you as the main subject or subjects.
2. Depress the shutter release lever halfway and allow the camera to focus on the substitute subject. Make sure it is in the center of the viewfinder. (Fig. A)
3. Holding the shutter lever in the halfway position, point the camera back to your original subject or subjects. Compose the picture and begin filming. (Fig. B)

III. SUBJECTS STANDING BEHIND GLASS

To shoot subjects through glass (Fig. C), either press the camera to the glass or shoot at an angle of 20° or more.

IV. SUBJECTS WHICH ARE MOVING A CONSIDERABLE DISTANCE AWAY FROM OR TOWARDS THE CAMERA

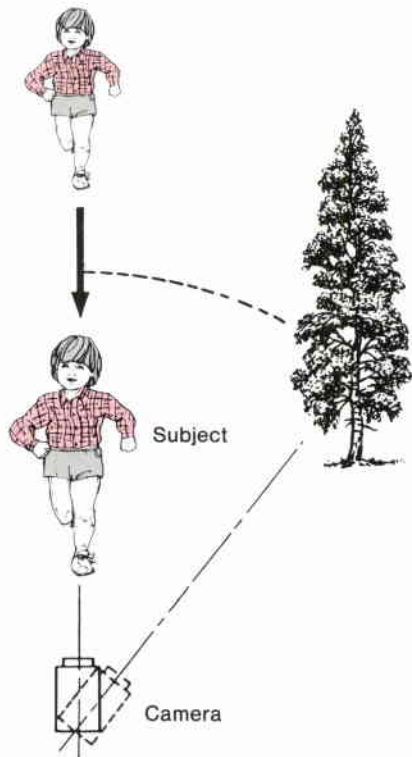
With moving subjects, you don't have to worry about focusing if you are filming outdoors in normal daylight. But to be on the safe side, especially when filming in dim light, follow this procedure:

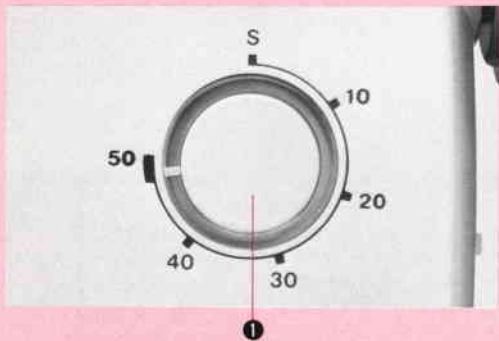
1. Set the manual zooming lever to "W," (wide angle).
2. Determine the middle point between your subject's original and ending position.
3. Prefocus, as previously explained, on the middle point of your subject's destination. Then begin filming.

You can completely avoid these steps if you film your subject from the side; in other words, film your subject moving across the viewfinder.

Note:

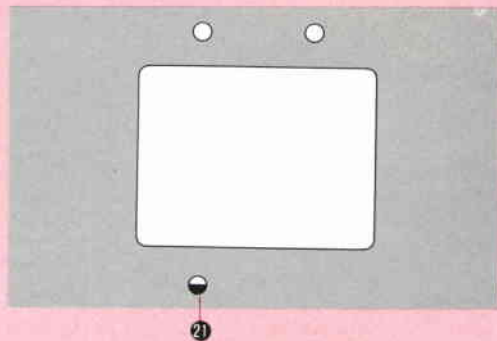
Don't cover the autofocus windows with your fingers or hair when filming.





17. Footage Counter

While filming, the needle in the footage counter ❶ moves to show how many feet of film have been exposed. It resets to "S" when the film cartridge is removed.



18. Removing the Cartridge at the End of the Film

When the film transport indicator ❷ stops moving, make sure that the footage counter indicates "50." Then take out the film cartridge.




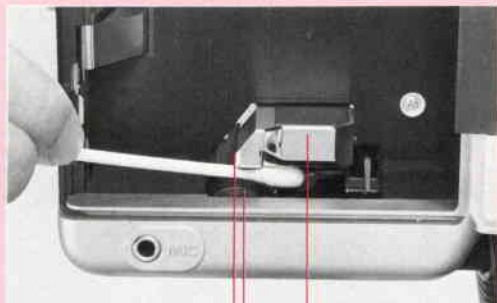
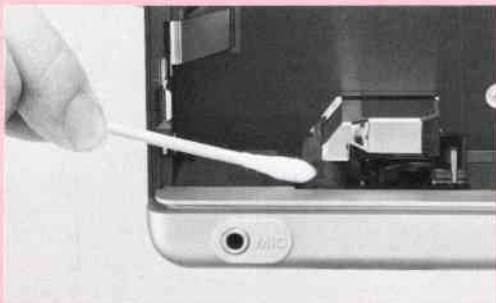
Open the side cover as previously instructed and remove the film cartridge by taking up its left end first (see picture above). Exposed film is labeled "EXPOSED"; you can easily distinguish it from new film. It is best to have the exposed film developed as soon as possible.

Things to Keep in Mind When Filming

1. With the AF310XL-S, sound is recorded eighteen frames ahead of the corresponding picture frame. For editing purposes, we therefore recommend shooting one or two seconds longer than necessary at the end of each filming sequence.
2. It is not advisable to film under TV towers or strong electro-magnetic fields with the AF310XL-S, as radio frequency interference may be recorded.
3. Correct focusing is impossible with the Canon C-8 Wide Attachment 43 mounted on either camera's lens.

Filming a Television Screen

Both cameras have wide shutter sectors, enabling you to film most dimly lit subjects, including the image on a TV screen. If you are filming a color TV and Type A film is loaded, set the CCA filter switch to . Keep in mind, however, that depending on the broadcasting system, some stripes may show up in your movies.



Cleaning the Recording Head Area

The recording head area inside the film compartment becomes dirty from film passing through. Unless it is cleaned regularly, there may be a loss of picture or sound quality. It is important to clean the head area at least once every five cartridges. The pinch roller becomes white when dirty; when it gets conspicuous, clean it. Slightly moisten the head cleaning stick (cotton swab which comes with the camera) in a little alcohol and wipe the pinch roller and capstan as indicated in the pictures above.

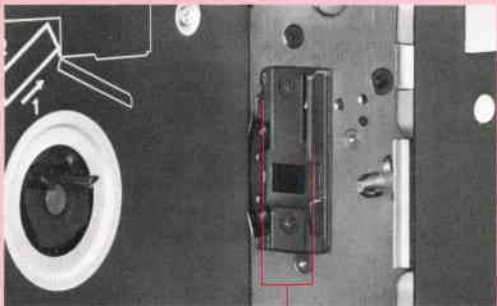
Capstan

Pinch roller

Recording head

Care of the Camera

1. The best thing you can do for the camera is to use it regularly. If it must be stored for a longer period of time (three weeks or more), first remove the batteries to prevent damage from battery leakage. Make sure the main switch is OFF. Place the camera in a cool, dry, dust-free area. Avoid storing it in a drawer with camphor or naphthalene. To keep the camera in top condition during prolonged storage, occasionally load the batteries and operate the shutter release lever.
2. Keep the camera out of direct sunlight and other very hot spots, such as the trunk or glove compartment of a car or on top of a radiator.
3. Water, spray, excessive humidity, dust, and sand are your camera's worst enemies. Keep it away from dust and humidity. Storing the camera in a very humid area may cause mildew to form on the lens. Clean the lens regularly during very humid seasons. If mildew does form, take the camera immediately to an authorized Canon service facility.
4. To clean the camera body, first remove dust with a blower brush (for cameras). Wipe off smudges with a silicone cloth or chamois leather. DO NOT use such cloths on the glass surfaces of the camera!
5. To clean glass surfaces and the lens, first remove dust with a blower brush. Then, to remove smudges, moisten lens tissue (for camera lenses) with a couple of drops of lens cleaner (for camera lenses) and gently wipe the surface.
6. Take care to keep anything metallic or magnetic away from sound cartridges and the recording head of the AF310XL-S.



7. The film gate ② must also be dusted out with a blower brush from time to time to remove accumulated film dust which may scratch the film (see picture above).

Filming in Very Low Temperatures

The batteries may fail when you film in temperatures below about 0°C (32°F). Load new batteries and keep the camera warm inside your coat or by other means until you begin to film. We recommend using alkaline or Ni-Cd batteries, as well as carrying a spare set with you when filming in low temperatures. Alternate the two sets of batteries, keeping the one which is not in use warm in a pocket. Do not throw the original set away. That the batteries do not work in the cold does not necessarily mean that they won't work normally again in warmer temperatures. Condensation forming on a camera and lens taken from cold outside temperatures into a warm room may cause corrosion. To prevent this, while still outdoors place the camera in a plastic bag. Seal it and take it indoors. Leave the camera in the bag until it gradually reaches room temperature. It takes about one half hour for the temperature to change 10°C (18°F).

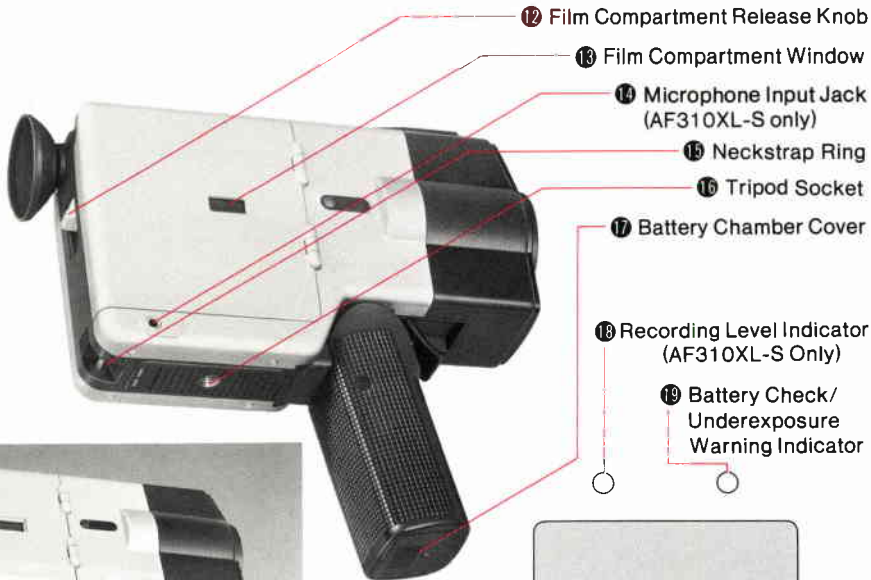
SPECIFICATIONS

	AF310XL-S	AF310XL
Type	Autofocus Super 8 movie camera for sound or silent XL filming.	Autofocus Super 8 movie camera for silent XL filming.
Format	4.2 × 5.8mm	
Lens	Canon 8.5—25.5mm f/1.0 with 3:1 zoom ratio. 13-element, 11-group construction. Spectra coating. ϕ 43mm filter thread. Lens cap: C-43.	
Focusing Mechanism	Active autofocus system through use of infrared. Measuring method: One Shot Memory Focusing	
Autofocusing Distance Range	1.2m (4 ft.) — ∞	
Zooming	Power zooming by electric motor, besides manual zooming. Power zooming speed: app. 7 sec.	
Viewfinder	Single lens reflex type (aerial image).	
	Battery check/underexposure warning indicator. Film transport indicator. Recording level indicator.	Battery check/underexposure warning indicator. Film transport indicator.
	Magnification: 0.47 — 1.41 Dioptric Adjustment: Stable type	
Eyecup	Built-in rubber eyecup, foldable	
Light Metering System	Through-the-lens EE metering by CdS photocell. Automatic exposure, coupled to ASA film speed and filming speed.	
Meter Coupling Range	ASA 160 at f/1.0 (18 fps.) to ASA 25 at f/45 (18 fps.)	
CCA Filter:	Built-in type. Must be switched to ☹ or ☼ manually.	
Film Speed:	Artificial light: ASA 40, 160 Daylight: ASA 25, 100 Automatically set when film cartridge is loaded.	

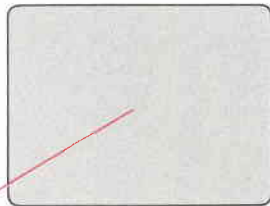
	AF310XL-S	AF310XL
Drive System	Film drive with electric micromotor and power zooming.	
Shutter Opening Angle	217°	
Footage Counter	Automatically returns to "S" and counts footage of exposed film. Coupled to the removal of the cartridge.	
Battery Life	Under normal temperature, about five cartridges at 18 fps.	
Sound Recording System	Magnetic recording system with the use of sound cartridge	—
Recording Level Adjustment	Built-in automatic level control (ALC) circuit	—
Input Monitor	By recording level indicator in the viewfinder (without earphone)	—
Microphone Input	Hot shoe microphone contact (for BM 30 D) Microphone Jack: ϕ 3.5mm Impedance: About 3k Suitable microphone: low impedance	—
Cartridge Compartment	Sound/silent cartridge	Silent cartridge
Grip	Collapsible type	
Accessory Shoe	Boom microphone BM 30 D (exclusive use)	—
Power Source	Four 1.5V penlight batteries Ni-Cd batteries acceptable	Three 1.5V penlight batteries Ni-Cd batteries acceptable
Dimensions	179.5 × 118.5 × 47mm (7-1/16 × 4-5/8 × 1-7/8")	179.5 × 114.5 × 47mm (7-1/16 × 4-1/2 × 1-7/8")
Weight	820g (1 lb, 13 oz.) without batteries and BM 30 D	590g (1 lb, 5 oz.) without batteries

Subject to change without notice

Nomenclature



Viewfinder Information



20 Viewfinder



21 Film Transport Indicator 38

Boom Microphone BM 30 D

Type	Unidirectional, electrolytic condenser microphone. Hotshoe type microphone exclusive for AF310XL-S
Output Level	-78 dB (1 KHz 0 dB = 1 v/ μ bar)
Power Source	Supplied from camera
Weight	65g. (2.3 oz.)

Subject to change without notice



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