Sears KSX-P 35mm camera
Chinon DP-5 (clone camera)

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This manual (which is printed by Sears in Black and White) can be used for the Chinon CP-5, DP-5, and CP-6. So any statements about the figures showing colored lights in the viewfinder will show up Black and White. This Sears KSX-P is a direct clone of the CP-5 (Chinon Program - 5) with the Sears name on it. The CP-5s is a variation with a spot metering system.

Either camera can use K-mount lenses and use them in one of the two "Program" modes. This is done by only allowing the "program" to open the lens only as wide as F4. Since every lens opens that wide, this program method will work. If you have a faster lens (f/2.8 to f/1.4) you can switch to Auto mode, choose the aperture, the Auto mode will choose the correct shutter speed.

The DP-5 has a chrome top with a few different markings. The CP-6 has a spot metering system and a DX film reading system in the camera back which is not stated in this manual. You can manually change the ASA setting on the CP-6 by just moving the Exposure compensation.

The exposure compensation dial by the rewind knob that allows two stops over and under exposure until until it is set to "0" again..
This camera can use any Chinon (to automatically set flash shutter speed) flash or the specific Sears flash (listed in this manual) that will set the shutter speed to 1/125.

Sears usually sold Ricoh made cameras. This was a departure for Sears, having Chinon make the camera.

(KS brands: K for K-mount - S for Sears) which were clones of the Ricoh KR (K for K-mount and R for Ricoh) but Ricoh flashes will only set the shutter speed on their own cameras. I would not even use a Ricoh dedicated flash on a Chinon or Chinon clone camera as the special contact pins could damage the Chinon/Sears electronics.

KSX-P

CONTENTS

Items covered in this manual

CONGRATULATIONS!

You have just purchased a fine camera that will give you many years of picture-taking pleasure. Your SEARS KSX-P camera is one of the most sophisticated 35mm SLR cameras available today. The KSX-P is the world's first two-stage programmed AE (Automatic Exposure) camera, aperture priority AE and full manual control. The two-stage programmed AE allows you to shoot fast moving or slow moving subjects to allow maximum versatility with your creative photographic needs. Employing a full information electronic viewfinder with variable intensity LED's' the KSX-P program camera is extremely easy to operate even under the most adverse lighting conditions.

Before using your KSX-P

Please read this instruction booklet carefully and thoroughly familiarize yourself with the equipment and its features. The pleasure you receive from 35mm photography will be greatly increased with complete knowledge of how your camera operates.

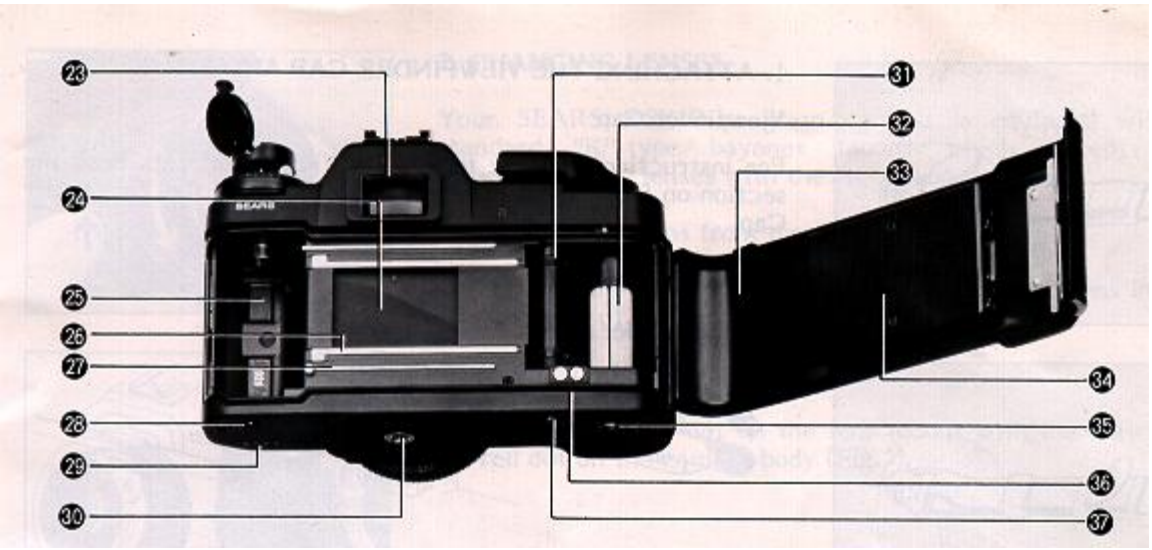
DESCRIPTION OF PARTS

1. Manual shutter speed select button/Exposure memory button

2. Program mode selector

3. Shutter release button

4. Exposure mode select dial 5. Film advance lever 6. Exposure counter 7. Multiple exposure lever 8. Self-timer LED 9. Shoulder strap eyelet 10. Auto-Focus electronic contacts 11. Self-timer/Audible signal on-off switch 12. Power grip attachment screw 13. Lens lock release lever 14. Power grip (battery compartment)	15. Accessory flash shoe (hot shoe) 16. Film rewind knob and back opening knob 17. Film speed dial (ISO/ASA) 18. F stop window 19. Aperture ring 20. Depth of field scale 21. X sync socket 22. Focusing ring 23. Viewfinder eyepiece 24. Metal focal plane shutter 25. Film chamber



26. Film rail	
27. Film guide rail	33. Camera back
28. Power source contact (with power winder only)	34. Film pressure plate
29. Power winder electronic contacts	35. Power winder coupler
30. Tripod socket	36. Auto Date electronic contacts
31. Sprocket teeth	37. Rewind button
32. Multi-slotted film take-up spool	

1. ATTACHING THE VIEWFINDER CAP AND STRAP

Viewfinder Cap

For instructions on how to use the Viewfinder Cap, read the section on Self-Timer Photography and Use of the Viewfinder Cap.

1. Attach the Viewfinder Cap to the strap.
2. Put the strap through the Strap Eyelets and adjust to the correct length.

Place the end of the shoulder strap through the eyelet ring (Fig. l).
Place the end of the strap through plastic holder and adjust the length of the strap (Fig. 2).
Pass the strap through the metal adjustment buckle to secure (Fig. 3).

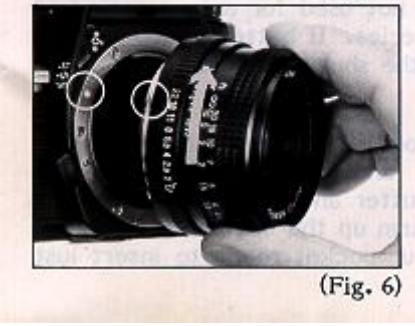
2. CHANGING LENSES

Your SEARS KSX-P program camera is equipped with a standard "K"- type bayonet mount which accepts all interchangeable lenses with the "K" bayonet mount. (Mike: to use any of the "program modes" you must use a PKa or PK a/r lens)

To Remove the Lens from the Camera

(Fig. 4)

(Fig. 5)



(Fig. 6)

1. Depress the Lens Release Lever, and turn the lens in the direction of the arrow (Fig. 4).

To Mount the Lens on the Camera

1. Line up the red dot on the lens mount with the matching red dot on the camera body (Fig. 5).

2. When the lens has engaged, turn it in the direction of the arrow until it clicks into place (Fig. 6).

* Indicator (0) on the lens rim shows filter size. For example, 49 (0) indicates a 49mm filter. Refer to this filter size when purchasing SEARS accessory filters.
l

3. INSERTING THE BATTERIES

The automatic exposure metering and shutter operation of this camera are powered by batteries, so it is important to insert the batteries correctly for proper operation.

(Fig. 7)


(Fig. 8)

1. Turn the screw on the side of the power grip counterclockwise to remove the power grip from the camera body
(Fig. 7).

2. Place three 1.5V "AAA" alkaline batteries in the power grip as indicated (Fig. 8).

NOTE: Attach the power grip to the camera body by turning the screw clockwise to secure it.

1. Make sure that the batteries are inserted correctly, i.e., check polarity (+ and -). The shutter will operate only when batteries are correctly installed and not exhausted. When replacing batteries, replace all three batteries at the same time.

2. When your camera is not used for a long period of time, remove the batteries. If batteries are dead or improperly inserted, the shutter release button will not operate.

3. Generally, in cold conditions, the voltage of the batteries decreases, and this will impair the functioning of the shutter and exposure meter. In these cases, either warm up the batteries or keep a spare set warm in your pocket ready to insert just before shooting.

4. BATTERY TESTING

(Fig. 9)

(Fig.10)

1. Set the exposure mode select dial to the "P" position (Fig. 9).

2. Look through the viewfinder and depress the shutter release button halfway down to confirm that at least one of the LED indicators in the viewfinder illuminates (Fig. 1 0).

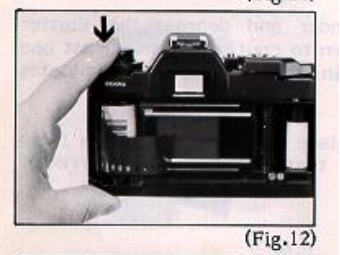
3. If nothing illuminates, replace the batteries with a fresh set or check to ensure that batteries are correctly installed.

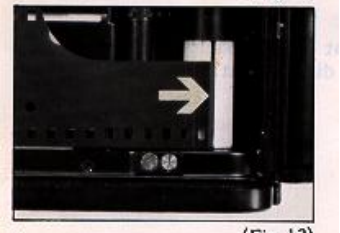
NOTE: Battery testing cannot be accomplished with the exposure mode select dial set at the "OFF" or "B" position.

5. INSERTING FILM

(Always avoid direct sunlight when inserting film.)


(Fig.11)

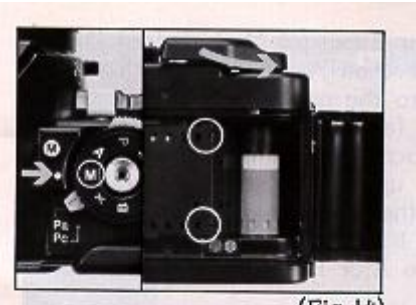

(Fig.12)


(Fig.13)

1. Pull up the Film Rewind Knob until the Back cover snaps open (Fig. 11).

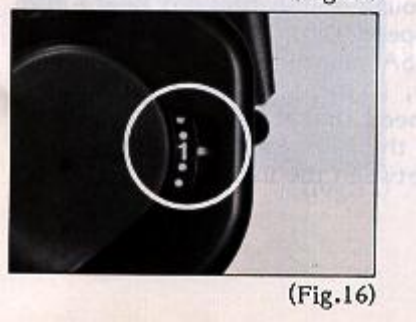
2. Insert the film in the Film Chamber with the protruding end of the cartridge positioned to the bottom of the camera. Push the Film Rewind Knob down to its former position (Fig. 12).

3. Insert the film leader into one of the slits on the Multi-Slot Film Take-up Spool (Fig. 13).



(Fig.14)

(Fig.15)



(Fig.16)

(Just a warning, if the film is not inserted correctly, the film numbers will advance but the film will not. Always check that the rewind knob turns when you advance the film)

4. Turn the Exposure Mode Select Dial to the "M" or "X" setting. Then advance the film, making sure that the sprocket holes on the film are fully engaged on the Sprocket Teeth. Close and press the Back Cover firmly to lock it (Fig. 14).

5. Pull up the Film Rewind Crank and turn it gently in the direction of the arrow until the slack in the film has been taken up and the rewind knob stops. Do not force this knob (Fig. 15).

6. Advance the film and press the Shutter Release Button a few times until the number "1" appears in the Exposure Counter (Fig. 16). As you advance the Film Advance Lever, the Film Rewind Knob rotates indicating that the film is properly advancing. Turn the Exposure Mode Select Dial to the desired position.

* A convenient "Memo Holder" is provided on the back of your camera. Whenever you load new film, just cut off the top of the film box and put it in the "Memo Holder" as a reminder of the type of film and number of exposures you are using.

* When loading film, set your Exposure Mode Select Dial to "M" or "X" setting, rather than A or P. This procedure will allow rapid advance to the number 1 position on the Exposure Counter. If A (auto) or P (program) is used during the film loading process, and the lens cap is left on the camera, a delay of up to 30 seconds may occur between depressions of the Shutter Release Button in advancing to the number 1 position. Be sure to set the Shutter Speed Dial back to A or P before taking pictures.

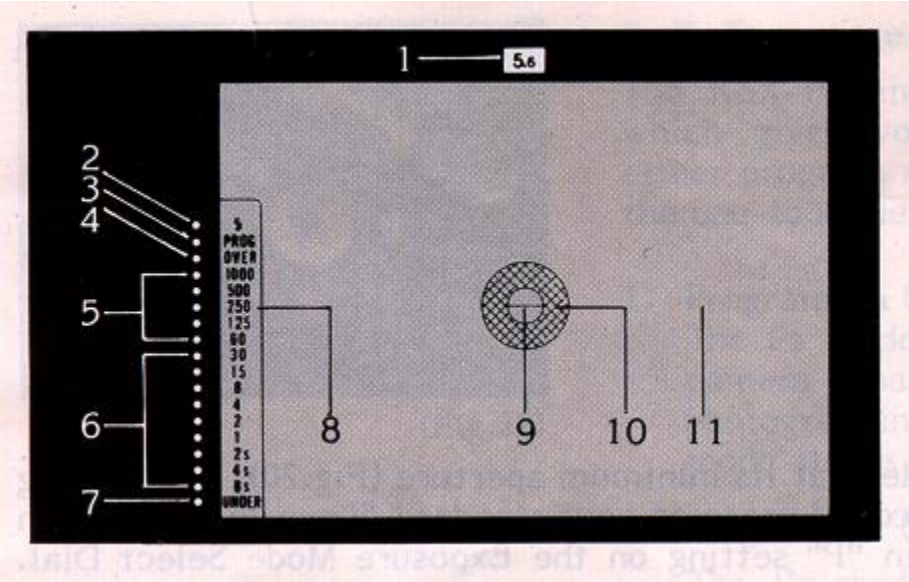
* When inserting film in cold conditions, the Film Leader may become hard and brittle. Consider warming the leader in your hand prior to insertion to prevent leader breakage.

6. SETTING THE FILM SPEED

(Fig.17)

The film speed is the basic element for determining proper exposure, so please be sure to set the film speed correctly. Film speed can normally be found on the film box or the film canister. Pull up the Film Speed Dial and turn the dial to align the appropriate ISO/ASA number with the red index mark (Fig. 17). For example, if the film speed is **ISO/ASA** 100, set "100" on the Film Speed Dial to the red index mark. Film speeds not appearing on the Film Speed Dial may be set using the click-stop setting between the indicated numbers.

7. VIEWFINDER INFORMATION



1. Aperture (It's a reflection of the F-stop on the lens. Viewable only in bright light)

2. Flash ready LED (red)

3. Program AE indicator LED (green)

4. Over exposure LED (red)

5. Shutter speed LED (green)

6. Slow shutter speed LED (yellow)

7. Under exposure LED (red)

8. Shutter speed scale

9. Split image rangefinder

10. Microprism collar

11. Ground glass

8. I. Programmed Exposure mode ("P" mode)

(Fig.18)

Your SEARS KSX-P program camera automatically selects the most suitable combination of shutter speed and aperture for the optimum exposure. The program mode is ideal for general picture taking and ease of operation, eliminating I troublesome exposure settings. The SEARS KSX-P program I camera is also equipped with the "DUAL" Program mode. I The "Pa" mode or "ACTION" mode, which selects the fastest practical shutter speed, is recommended in most cases.

(Fig.19)


(Fig.20)

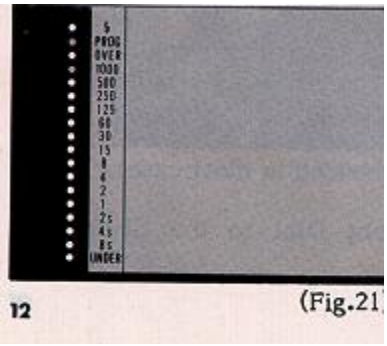
1. Set the Exposure Mode Select Dial to the Green "P" position (Fig. 18).

2. Set the Program Mode Selector to the "Pa" position (Fig. 19).

3. Set the lens at its minimum aperture (Fig. 20). This setting is color coded green on your standard 50mm lens to match the green "P" setting on the Exposure Mode Select Dial. Accessory lenses should also be set at their minimum aperture.

4. While looking at the shutter speed indicator scale in the viewfinder, slightly depress the shutter release button. The "PROG" LED and program selected shutter speed LED indicators light up (Fig. 21). Further pressure on the shutter button will release the shutter.

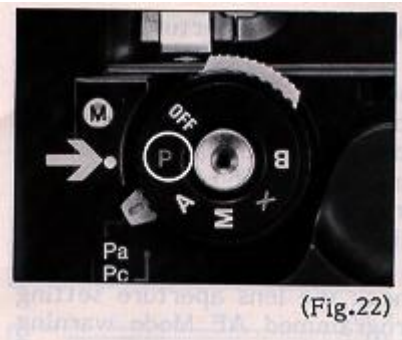
*** PROGRAM mode warning:**



12 (Fig.21)

The "PROG" LED indicator (green) in the viewfinder will "flicker" when the lens aperture is set within four stops of the lens full aperture opening. This is to warn you of the limited programmed exposure range. Beyond four stops of full aperture opening, the "PROG" LED indicator will remain illuminated at the programmed mode. Thus, set the lens aperture, so as not to cause the "Programmed AE mode warning LED" to flicker.

8. II. Two-stage programmed AE (For advanced use)



(Fig.22)

The KSX-P camera is designed with a two-stage program, which gives you greater photographic versatility: select either program mode, based on your photographic needs, with the one-touch lever (Fig. 22).

1. **Program Pa** (Table A)

The Pa mode selects maximum shutter speed to minimize camera shake, and is designed to be used when photographing "hi-speed" (moving) objects. This program mode allows you to stop action.

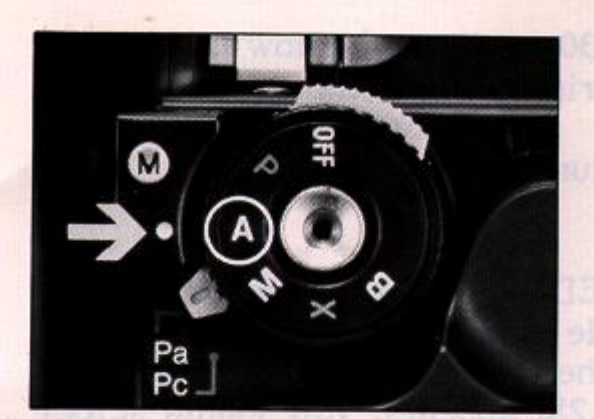
2. Program Pc (Table B)

The Pc mode gives priority to the lens aperture, which affects the depth of field. This mode is convenient when taking pictures of hard-to-focus objects and when using wide angle lenses. This program mode seeks out the correct exposure with the smallest aperture (lens opening). Therefore you will achieve the greatest in-focus depth to your photos.

3. **Programmed AE mode warning and aperture setting.**(Table C)

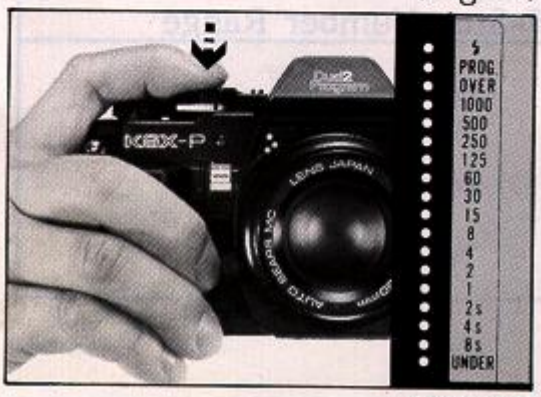
Unlike other program cameras, SEARS KSX-P camera accepts any existing "K" mount lens even in the program mode. Generally, you should set the aperture at its minimum setting (largest number on f-stop aperture ring). Although you can take a perfectly exposed picture at any aperture setting, the applicable programmed range is limited in this connection, thus the program AE mode warning LED is useful to check the lens aperture setting for program mode. The programmed AE Mode warning "PROG" LED will "flicker" when the lens aperture is within four stops of the full opening aperture. Set the aperture within the range so that the warning LED will not "flicker". Follow your own photographic needs; however, in such a case for instance, using the 50mm f/ l.4 lens with its f-stop set at 5.6, the camera is controlled by the program characteristics of f/1.4 through f/5.6, beyond f/5.6, the camera is controlled by the aperture priority automatic exposure mode (See table C).

9. AE (AUTOMATIC EXPOSURE) PHOTOGRAPHY



(Fig.23)

(Fig.24)



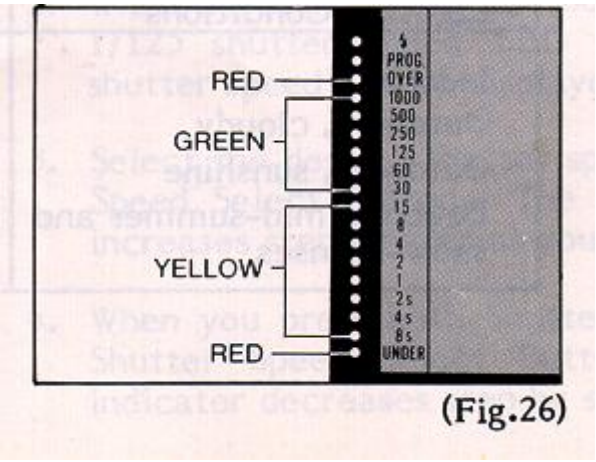
(Fig.25)

Operating in the "A" setting, you select the aperture (f-stop on the aperture ring) and the camera will automatically select the appropriate shutter speed. After you have set the Exposure Mode Select Dial to "A" and the aperture ring to the desired f-stop, your SEARS KSX-P camera will automatically select the appropriate stepless shutter speed from 8 sec. to a fast 1/1000 sec. "A" mode is convenient for taking pictures at specific aperture settings based on your individual needs.

1. Set the "A" on the Exposure Mode Select Dial against the Shutter Speed Red Index Mark (Fig. 23).

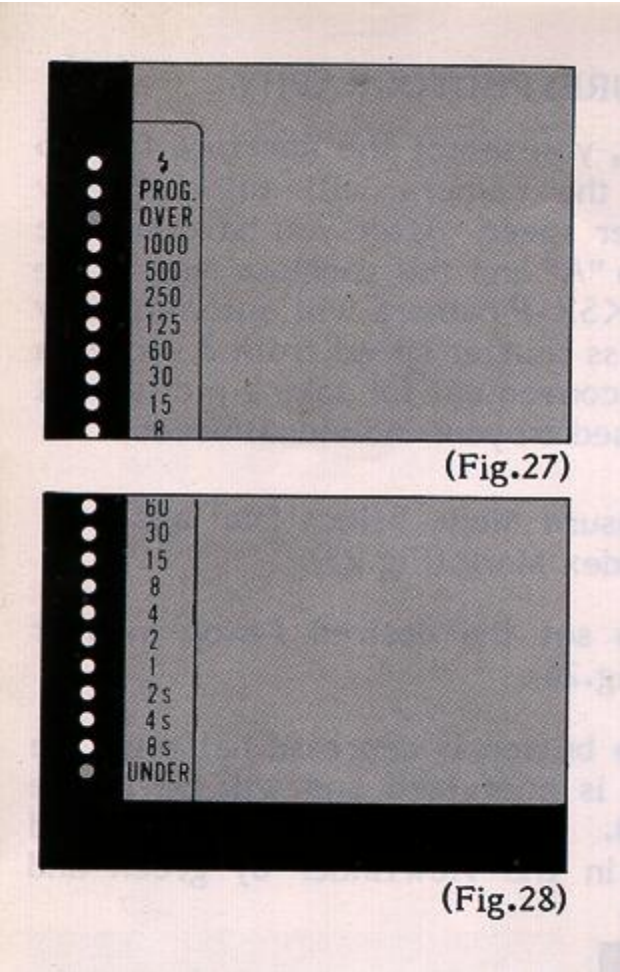
2. Use the F-Stop Ring to set the desired f-stop number against the Index Line (Fig. 24).

3. When the shutter release button is depressed halfway, the exposure control circuit is energized and will be in the monitoring stage (Fig. 25). You can see the computerized shutter speed displayed in the viewfinder by green and yellow LED's (Fig. 26).



(Fig.26)

4. If the displayed speed is 1/30 or slower (yellow LED's with audible signal), use of a tripod is recommended, or you can increase the shutter speed by opening the lens diaphragm to a larger aperture. Use of a flash unit is also suggested.



(Fig.27)

(Fig.28)

5. When the Overexposure LED (third from the top of the scale with double audible signal) (Fig. 27) or the Underexposure LED (at the bottom of the scale with double audible signal) (Fig. 28) appears, you should select another f-stop number by turning the lens aperture ring, as the exposure is incorrect.

F-STOP NUMBER GUIDE

The following f-stop settings are general guidelines for your use. However, you should remember to follow the LED indicators in your viewfinder for proper exposure.

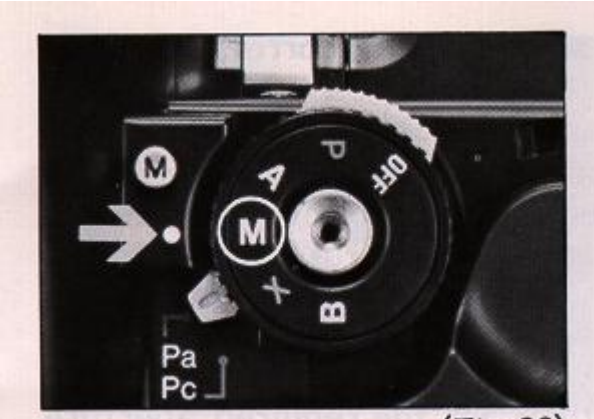
With ISO/ASA 100 Film

Lighting Conditions	F-Stop Number Range
Indoors	F/1.7 - 2.8
Outdoors, cloudy	F/4. - 5.6
Outdoors, sunshine	F/8 - 11
Beach in mid-summer and snow-scenes	F/11 - 16

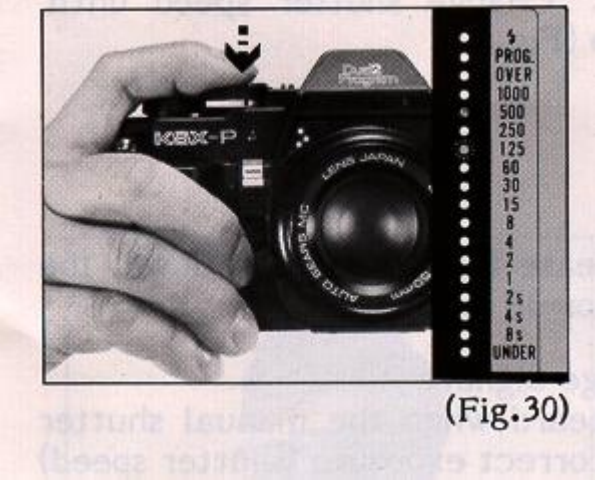
With ISO/ASA 400 Film

Lighting Conditions	F-Stop Number Range
Indoors	F/4 - 5.6
Outdoors, cloudy	F/8 - 11
Outdoors, sunshine	F/16 - 22
Beach in mid-summer and snow-scenes	F/22

10. MANUAL PHOTOGRAPHY



(Fig.29)



(Fig.30)

You can manually control the SEARS KSX-P when the camera is set to the "M" mode. Just one push of the Manual Shutter Speed Select Button selects the desired shutter speed and the audible signal will be heard when correct exposure is obtained. Furthermore, this program camera is equipped with convenient "Power Hold Circuitry".

1. Set the Exposure Mode Select Dial to the "M" mode position (Fig.29).

2. When the Shutter Release Button is depressed halfway, the 1/125 shutter speed LED will blink and the metered shutter speed will be displayed (Fig. 30).

3. Select the desired shutter speed by depressing the Shutter Speed Select Button. The shutter speed LED indicator increases step by step as you press the button.

4. When you press both Shutter Release Button and Manual Shutter Speed Select Button, the shutter speed LED indicator decreases step by step.

*** There are two methods of selecting the correct exposure (M mode)**

(Fig.31)

(Fig.32)

1. For shutter-priority selecting: Set the required shutter speed. Rotate the lens aperture ring until the selected shutter speed and the metered speed are matched up (two dots converge into one dot) on the scale in the viewfinder (Fig. 31).

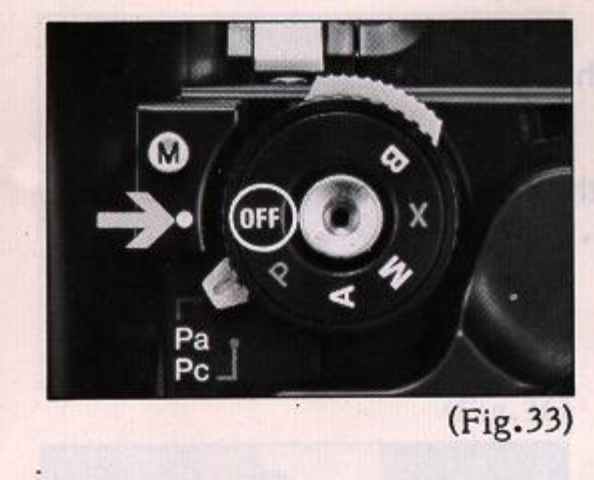
2. For aperture-priority selecting: Set the required aperture on the lens aperture ring. Change shutter speed until both LED's are matched up (Fig. 32).

*** Other features at M mode**

1. Power-hold circuitry: A push of the Shutter Release Button halfway down, the camera circuitry stays on for 30 seconds.

2. S.C.S. (Shutter Speed Change Signal): An audible signal will be heard when the manual shutter speed changes. When the correct exposure (shutter speed) is obtained, a double audible signal is heard. 3. M.E.S. (Manual Exposure Signal): For shutter speed preference, an audible signal is heard when the correct exposure aperture is obtained. **NOTE:**
At "M" mode, the camera-shake and over/under warning audible signals are not operative.

11. SHUTTER RELEASE AND RELEASE LOCK



(Fig.33)

Your SEARS KSX-P program camera features a two-stage electromagnetic shutter release with safety lock. When the Shutter Release Button is depressed halfway, the electronic circuitry starts functioning. When the button is fully depressed, it will trigger the shutter. Always hold the camera steady and gently depress the Shutter Release Button to make an exposure. The position marked "OFF" on the Exposure Mode Select Dial is the shutter release safety lock position. When this is aligned with the index mark, the batteries are disconnected from the circuitry and an exposure cannot be made (Fig. 33). This position is also used when the camera is not to be used for a long time.

12. HOLDING THE CAMERA

Holding the camera correctly when shooting is very important.

1. The camera should be positioned on the palm of your left hand so that you can use your fingers to turn the Focusing Ring of the lens easily.

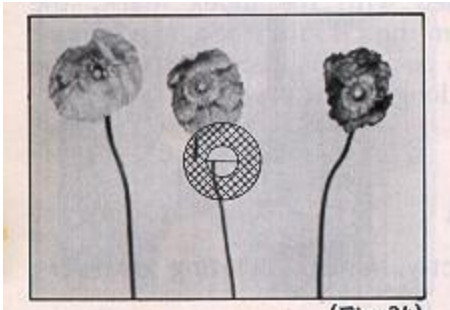
2. The index finger of your right hand should rest lightly on the Shutter Release Button, while your right hand holds the camera body lightly.

3. Your right arm should be in a comfortable position.

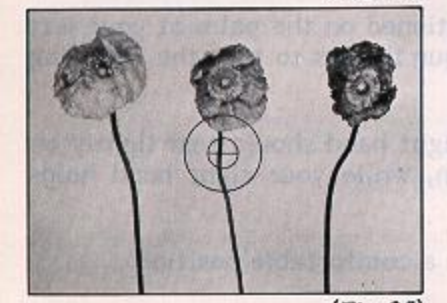
4. Keep your left arm resting lightly against your body, and the camera should just touch your forehead when you look through the viewfinder.

* It is important to shoot with the correct body posture, to avoid blurred or tilted shots.

13. FOCUSING



(Fig.34)



(Fig.35)

When the split image in the Split-image Spot forms a single image, the subject is in focus (Fig. 34). When not in focus, the top and bottom halves of your subject will not be lined up properly -- they will be "split" a part. This type of focusing is especially helpful if you have a straight vertical line to focus upon.

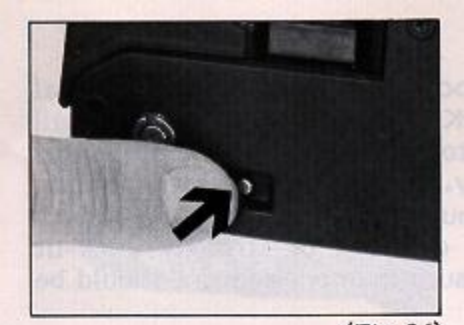
Split-image Focusing

Look through the viewfinder to compose your picture and focus by turning the Focusing Ring. You can focus either by using the center Split-image Spot or the Micro-prism Image Band that surrounds the center circle.

Mircoprism Focusing

When the subject loses its "shimmering" effect and becomes very sharp, the subject is in focus (Fig. 35)

14. REWINDING THE FILM



(Fig.36)

(Fig.37)

(Fig.38)

(Always avoid direct sunlight when unloading film).

After the last picture on the roll of film has been taken, the Film Advance Lever will stop. Do not attempt to force the lever.

1. Press the Film Rewind Release Button. It will remain locked into position (Fig. 36).

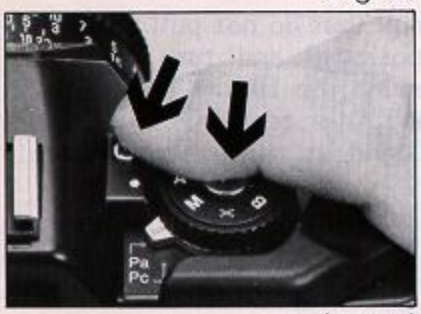
2. Pull up the Film Rewind Crank (but do not pull the entire knob up from its seated position) and turn it in the direction of the arrow to rewind the film. When the film has been completely rewound, the tension of the Film Rewind Crank is released and it will revolve freely (Fig. 37).

3. Now pull up the Film Rewind Knob fully and the Back Cover will open. Remove the film, push the Film Rewind Knob back into position and close the Back Cover (Fig. 38).

* Never open the Back Cover during rewinding, as light will get in and ruin your film.

15. AE LOCK SYSTEM

(Fig.39)



(Fig.40)

(Fig.41)

This camera has an AE Lock system. Under normal circumstances your SEARS KSX-P program camera will produce perfectly exposed photographs, due to the integrated automatic exposure circuitry. However some lighting conditions might occur that could misguide the system, such as subjects with a very high contrast or strongly back-lit scenes. In such cases, the exposure memory feature should be used.

1. Make sure that the Exposure Mode Select Dial is set to the "A" position (Fig. 39).

2. Depress the Shutter Release Button halfway and measure the light on the main part of the subject you want to shoot. This should be done up close to the subject to exclude all unnecessary light from the side or background (Fig. 40). Then press the Manual Shutter Speed Select Button once, which will instantly memorize the light value of the subject, giving an audible signal (Fig. 41). Once the button is depressed, there is no need to hold the Manual Shutter Speed Select Button further as long as the Shutter Release Button remains depressed halfway. The shutter speed indicator (LED) in the viewfinder will stay on, signaling the "memorized" shutter speed as long as the Shutter Release Button is depressed halfway.

3. Compose the picture and shoot by depressing the Shutter Release Button the rest of the way down. The AE lock system is then automatically cancelled.

16. EXPOSURE COMPENSATION SYSTEM

(Fig.42)

Depending on shooting conditions, the camera exposure setting may be affected more by the background light than the light of the subject itself. This will result in under (or over) exposed pictures. In these cases, you should use the Exposure Compensation system. You can also use the system when you wish to create a deliberate effect of over (or under) exposure. You can change the exposure factor up to one full stop either plus or minus in 1/3 EV increments. Pull out and turn the Film Speed Dial to set your film speed to the desired exposure compensation position (Fig. 42).

(1) l EV over (+)
(2) 2/3 EV over
(3) 1 /3 EV over

The above settings give you a larger aperture and will therefore lighten your pictures.

(4) Normal exposure
(5) 1/3 EV under
(6) 2/3 EV under
(7) 1 EV under (-)

The above settings give you a smaller aperture and will therefore darken your pictures.

* Be sure to set your film speed back to the normal position after use.
* Exposure compensation of + 1 = One additional f-stop

17. B (BULB) SETTING

(Fig.43)

The B setting is used for shooting night scenes or long time exposures.

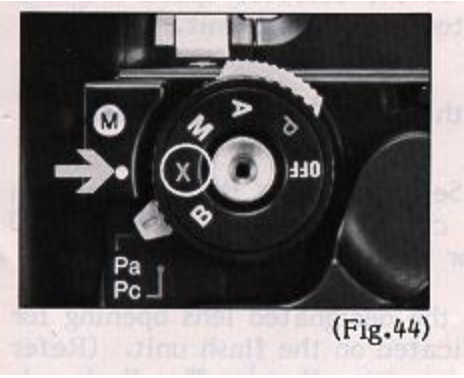
Set the Exposure Mode Select Dial to the "B" position (Fig. 43). The shutter and mirror will move to the open (up) position while the Shutter Release Button is depressed. Use of a cable release and a tripod is recommended for stability to prevent vibration during time exposures. Your SEARS KSX-P program camera is equipped with a "B" Timer Signal system, which gives audible signals as time passes.

B TIMER SIGNAL

For the first 60 seconds, an audible buzzer will be heard every second. After 6C seconds, a longer audible signal will then be heard at intervals of 10 seconds.

18. FLASH PHOTOGRAPHY WITH SEARS DEDICATED FLASH (See next page if not using dedicated flash).

Your Sears KSX-P camera is designed with a unique dedicated flash system making flash photography simple.



(Fig.44)

The Sears Auto/Thyristor Electronic Flashes (8025, 8028 & 8032) are dedicated to the KSX-P camera. These dedicated flashes will automatically set the shutter speed on the camera to 1/100 second (the correct shutter speed for flash photography) when the exposure mode select dial is set at "A", "M", or "X". Therefore, you can leave the shutter speed set on "A" while taking flash pictures. Also the Flash Ready red LED light conveniently lights up in the Viewfinder, so that you don't have to take your eye away from the Viewfinder to ensure that the flash is fully charged.

1. Attach the flash unit to the camera Hot Shoe.
2. Set the exposure mode select dial to "A" or "X" position (Fig. 44).

3. Set the f-stop number to the designated lens opening for automatic shooting as indicated on the flash unit. The flash unit will automatically control the amount of light for subjects within the distance range for automatic flash photography.

4. Turn the flash unit's power source switch on, and when the flash is fully charged, the Flash Ready red LED Light in the camera viewfinder will light up, and the Shutter Speed Indicator will show 1/125 sec. and change automatically to the synchronizing speed.

5. Press the Shutter Release Button and shoot. * For further details, please refer to the instructions with the flash unit.

* Do not use other makes of flash units that have special signal pins (dedication pins) exclusively for their cameras, as this will result in incorrect exposure and may damage the circuitry of the camera.

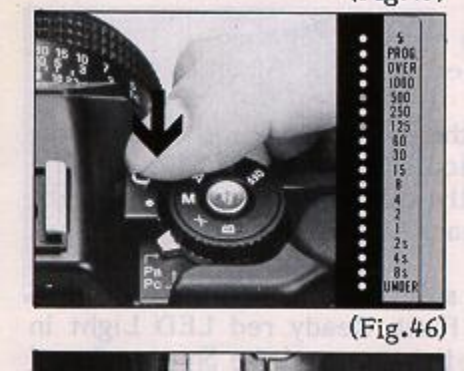
* If the Shutter Release Button is pressed before the Flash Ready LED Light lights up, the shutter speed will be the one indicated by the Shutter Speed Indicator.

* The flash ready light and automatic shutter speed change will not operate with flash units not "dedicated" specifically to this camera.

* If you desire to synchronize at speeds slower than 1/l00sec., set the Exposure Mode Select Dial to the "M" position (Fig. 45). Select the desired shutter speed by depressing the Manual Shutter Speed Select Button. The shutter will be released at the selected speed (Fig. 46). Set the aperture as indicated by the flash unit.

18. **A. Flash photography with non-dedicated Automatic flash units**

(Fig.45)



(Fig.46)

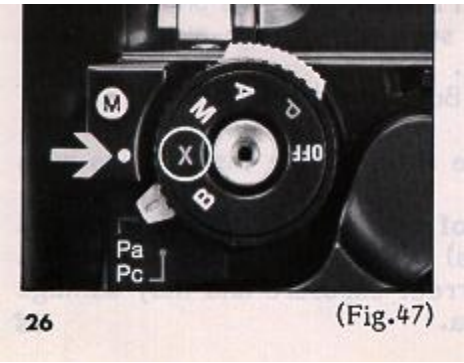
1. Set the Exposure Mode Select Dial to the "X" position (Fig. 47). This sets the correct shutter speed (1/100 second) on your camera for flash photography.

2. Set the f-stop number to the designated lens opening for automatic shooting as indicated on the flash unit. (Refer to instructions provided with flash). The flash unit will automatically control the amount of light for subjects within the distance range for automatic flash photography.

3. Turn the flash unit's power source switch on, and when the flash is fully charged, the ready lamp on the flash unit will glow.

4. Press the Shutter Release Button and shoot.

18. B. Flash photography with Manual flash units



26 (Fig.47)

(Mike: Very few units don't have an "A" auto setting, but this is part of the manual)

1. Set the Exposure Mode Select Dial to the "X" position. This sets the correct shutter speed (1/100 second) on your camera for flash photography.

2. Refer to the chart on the back of the flash (or instruction book) for proper f-stop number. The proper f-stop number can also be manually computed. A guide number is indicated on the flash unit or in the flash instruction book. The guide number is an indication of the power of the flash. The higher the guide number, the higher power available for the flash. Use the guide number in the following equation to obtain the correct f-stop number, and set that number to the f-stop index line. For example, with a flash unit with guide number 24 for ASA25, and camera-to-subject distance of 6 feet:

F-Stop number (4) = Guide number (24) divided by Camera-to-subject distance (6)

3. Turn the flash unit's power source switch on, and when the flash is fully charged, the ready lamp on the flash unit will glow.

4. Press the Shutter Release Button and shoot.

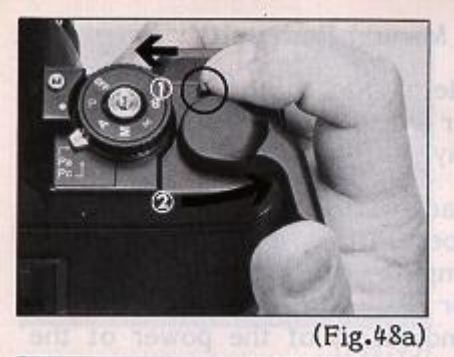
18. C. X Sync. Socket

Flash photography with electronic flash units not having hot shoe contact. (Mike: or big off-camera flash units)

1. Set the Exposure Mode Select Dial to the "X" position.

2. Connect the sync. cord of the flash unit to the X sync. socket of the camera.

19. MULTIPLE EXPOSURE PHOTOGRAPHY



(Fig.48a)

(Fig.48b)

Multiple exposure is a technique to put more than one exposure onto the same frame. The Multiple Exposure Lever is located in front of the Film Advance Lever.

1. Press the Shutter Release Button to obtain the first exposure.

2. Slide and hold the Multiple Exposure- Lever to the left (Fig. 48a).

3. Advance the Film Lever while holding the Multiple Exposure Lever. You can release the Multiple Exposure Lever after you have advanced the Film Lever.

4. Take the second exposure.

If you wish to continue adding exposures to the frame, repeat steps 3 and 4. During this procedure, the Exposure Counter will not advance.

Better results can generally be obtained by taking subjects that include a large area of darker parts (Fig. 48b).

* It is suggested that you inform your camera store that you have taken multiple exposures when you take your film for printing, as sometimes they do not print these pictures, mistaking them for accidental double-exposures.

20. SELF-TIMER PHOTOGRAPHY AND USE OF THE VIEWFINDER CAP

(Fig.49)


(Fig.50)

The self-timer enables you to include yourself in your own photographs.

1. Mount the camera on a tripod or a flat, steady surface.

2. Compose your picture.

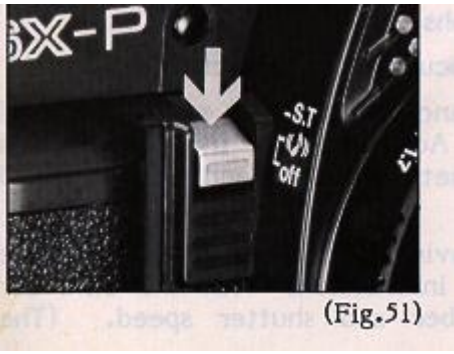
3. Raise the Self-Timer Switch to the upper position and depress the Shutter Release Button (Fig. 49).

4. The Self-Timer Indicator Light will pulsate with an electronic sound, and about 10 seconds later, the shutter will be released (Fig. 50). Two seconds before the shutter releases, the light will pulsate faster to indicate the 10 seconds are almost finished.

5. If you wish to cancel the self-timer once it has started operating, simply lower the Self-Timer Switch to the normal position.

* When using the self-timer with the "P" or "A" settings or when shooting long-time exposure, use the Viewfinder Cap attached to cover the Viewfinder Eyepiece. This procedure will prevent unwanted light from entering the Viewfinder Eyepiece and causing incorrect exposure.

Audible Signal ON/OFF Switch

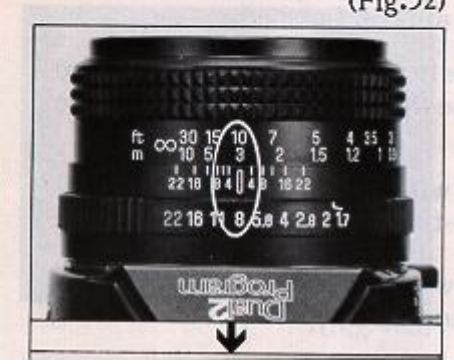


(Fig.51)

When the Audible Signal ON/OFF Switch (Self-Timer Switch) is pulled down to the lower position, all audible signals of the camera will be eliminated (Fig. 51). This is a helpful feature when you want to take photos with as little noise as possible. Your SEARS KSX-P program camera is equipped with six different audible signals. For more details, see "Multi-sound system".

21. DEPTH OF FIELD

(Fig.52)



When you focus on a specific subject, an area in front of and behind the subject will appear acceptably sharp in your picture. This area is called the "Depth of Field". This area in focus (or depth of field) changes depending upon the aperture selected. The depth of field can be determined from the depth of field scale. The larger the lens opening (smaller f-stop), the shallower is your depth of field. The smaller the lens opening (larger f-stop), the greater the depth of field will become.

Each lens has a depth of field scale. For example, with the focus ring set at 15 feet and using f/16, the area within the two f/16 marks on the scale (about aft to infinity) will be in sharp focus (Fig. 52).

22. INFRARED PHOTOGRAPHY

30

(Fig.53)

The infrared index mark is a way to correct the focusing point when you use infrared film with red filters.

Since infrared light rays have a longer wave-length than visible light rays, after focusing normally on the subject, you have to set that distance against the infrared index mark.

Taking Infrared Photographs

1. Attach a red filter, and focus on the subject.

2. Reset the indicated distance on the lens to the infrared index mark (Fig. 53). According to the instructions enclosed with the film, set the f-stop and shutter speed and release the shutter.

* Infrared light rays are invisible to the eye and the light meter, so refer to the instructions with the film for setting the f-stop number and shutter speed. (The automatic exposure system in your camera can not be used.) If you want IR, try one of the many digital IR point and shoot cameras available.

23. MULTI-SOUND SYSTEM

Your SEARS KSX-P program camera provides full information via various buzzer warnings and colorful LED's to simplify the highly sophisticated KSX-P technology.

1. S.C.S. (Shutter Change Signal): An audible signal will be heard when the manual shutter speed changes at "M". When the correct exposure (shutter release) is obtained, a longer audible signal is heard.

2. M.E.S. (Manual Exposure Signal): For shutter speed preference at "M", an audible signal is heard when the correct exposure aperture is obtained.

3. timer signal: For time exposures at "B" setting; for the first 60 seconds, an audible buzzer signal will be heard every second. After 60 seconds, a longer audible signal will then be heard at intervals of 10 seconds.

4. Camera-shake and Under Exposure Warning Signals: In A or P mode, when the shutter speed is slower than 1/30 sec. or the exposure is not sufficient (under), an audible buzzer warning will be heard.

5. Over Exposure Warning Signal: In A or P mode, when the exposure is excessive, an audible signal will be heard.

6. Memory Signal: At "A" mode for exposure memory, an audible signal will be given when the manual shutter speed select button is pressed once to memorize the light value.

7. Self-Timer Signal: When the self-timer is operated, an audible buzzer will be heard, together with a blinking red LED.

> * Remember that all of these audible signals can be turned *"OFF"* using the Self-Timer Switch as outlined on page 29.

24.SPECIAL ACCESSORIES

By attaching a SEARS Autowinder to this camera, the film can be advanced automatically so that you can take continuous shots (2 frames per second). This is a great accessory for sports or action photography when rapid-sequence photos are desired.

The KSX-P optional power winder system features the "Single Power Source System". When equipped with SEARS Power Winder #7357, the camera's power source is supplied from the power winder. This system is extremely convenient when photographing in cold weather.

* Before attaching the winder, wipe the contact points on both the camera and the winder with a dry cloth.

25.PROPER CARE OF YOU CAMERA * Never touch the surface of the lens with your fingers. If the lens is dirty, either use a blower brush to blow the dust away or wipe it gently with a soft cloth.

* Camera malfunctions can be caused by shock, humidity, salt air, etc. After using the camera at the beach or in places that use chemicals, wipe it carefully.

* Do not use chemically-treated cloths to clean the camera. * Take care not to expose your camera to sudden changes in temperature, as this may cause camera malfunction. * Do not expose your camera for a long period of time to extremely high temperatures, such as in the back of your car or on a beach, as this may cause camera malfunction. * When using a tripod, do not try to force a long screw into the socket. (The screw length should be less than 1/4 inch).

* Do not place the camera near equipment that has strong magnetism such as television or radio. * Remove the batteries before storing the camera, and keep it in a place free of dust and humidity.

* Do not attempt to disassemble or repair your camera yourself. If service is necessary, bring it to your nearest Sears store.

SPECIFICATIONS: SEARS KSX-P

TYPE: ..... 35mm automatic compact SLR camera with TTL full aperture programmed AE (instant stop-down re-metering), Aperture priority AE, and manual exposure system.

LENS MOUNT : .....Universal bayonet (PENTAX "K"- type) mount with built-in active AF lens contacts (for accessory lens). (Mike: forget it, this type of AF lens are from the early '90's and very difficult to find, if you can)

FILM FORMAT AND FRAME SIZE:.....35mm film; 24x36mm

SHUTTER: .....Electromagnetically controlled, vertically moving, metal focal plane shutter, stepless speeds from 30 sec. to 1/1000 sec. on automatic, 14 speeds from 8 to 1/1000 sec. on manual exposure (Viewfinder indication to 8 sec.). Electronically controlled automatic and manual exposure.

SHUTTER RELEASE:.....Electromagnetic type shutter release with safety lock (off) and provision for cable release.

SELF-TIMER:.....10 seconds delay with LED (light emitting diode) and electronic sound warning.

VIEWFINDER: .....Field of view covers 92% horizontally and vertically. Viewing Magnification 0.87X (with 50mm f/1.4 and f/1.7 lenses). 18 LED's indicate shutter speeds (green), over/under exposure (red), slow shutter speeds warning (yellow), flash ready (red), and program AE (green), Aperture visible in viewfinder.

FOCUSING:.....Split-image spot in microprism band

EXPOSURE METER: .....TTL full open metering for center-weighted average light reading; employing silicon blue cell.

Two stages available:

> **Pa:**The "PROGRAM ACTION" mode is designed for fast moving objects. Lens aperture stays wide open up to a shutter speed of 1/60 sec. Between 1/60 - 1/1000 sec., the aperture varies in accordance with the programmed shutter speed.
>
> **Pc:** The "PROGRAM CREATIVE" mode is designed for maximum depth of field . Lens aperture stays wide open up to the shutter-speed of 1/8 sec. At faster than 1/8 sec., the aperture varies in accordance with the programmed shutter speed.

Programmed AS Mode Warning:

Built-in with flashing "PROG" LED, when the aperture is set within 4 stops from full aperture opening. Beyond 4 stops from full aperture opening, "PROG" LED will remain "ON" at program AE mode.

Manual Shutter Speed Selector:
One-touch activation type by pressing the shutter release button halfway.
Depressing the "M" button, shutter speed starts from 1/125 sec. and goes up with LED indication. Depressing both "M" button and shutter release button, shutter speed goes down from 1/125 sec. with LED indication in viewfinder.

S.C.S. (Shutter Speed Change Signal):
Built-in with audible buzzer signal when the proper exposure is achieved by turning aperture ring.

M.E S. (Manual Exposure Signal):
Built-in with audible buzzer signal when the proper exposure is achieved by turning aperture ring.

Camera Shake, Over/Under Warning:
Shutter speed slower than 1/30 sec., under/over warning with double audible signal.

EXPOSURE COUPLING
RANGE ..... EV+1 - EV 19 (with ISO/ASA 100 film, 50mm f/1.4 lens)
EV+1.5 - EV 19 (with ISO/ASA100 film, 50mm f/1.7 lens)

FILM SPEED RANGE ..... ISO/ASA 25-3200 with 1/3 EV segment.

"X"SYNCHRONIZTION....."X" flash sync. at 1/100 sec.

FLASH TERMINAL .....X sync. contact

SLOW FLASH SYNC.....1/60 sec. or slower in manual exposure mode.

ACCESSORY SHOE ..... Hot Shoe (with Flash Ready Signal Contact)
Flash Synchro contact

EXPOSURE ADJUSTMENT ..... Built-in, +1 EV to - 1 EV in 1/3EV increments.
Exposure memory System

FILM ADVANCE .....Single stroke film advance lever with 130° winding angle and 25° stand-off,
Automatic winding possible by mounting Sears Autowinder #7357.

FILM LOADING.....Multi-slotted spool type

EXPOSURE COUNTER ..... Additive, automatic resetting

MULTIPLE EXPOSURE .....Built-in switch which disengages film advance and film counter

FILM REWIND ..... Film Rewind Crank System

MIRROR .....Quick return mirror

BACK COVER ..... Hinged type, opened by pulling up Film Rewind Knob

POWER SOURCE ..... Three 1.5V "AAA" (AM-4) Alkaline batteries

AUTO-OFF POWER SYSTEM..... 30 sec. in manual exposure mode

BATTERY CHECK .....Built-in with LED indicator

DIMENSIONS ..... 5.35" (W) x 3.46" (H) x 2.01" (D) (body only)

WEIGHT .....18.34 oz (body only)

WEIGHT OF STD. LENSES .....50mm f/1.4: 7.5 oz, 50mm f/1.7: 5.9 oz