



GRAPHIC[®] 35 *JET*
with Jet-O-Matic Drive

**OPERATING
INSTRUCTIONS**

EXPECT TO ENJOY THIS CAMERA

From the moment you slide a Charger into your new Graphic 35 Jet, you anticipate a new kind of picture-making pleasure. As you proceed, you become increasingly aware of the new ideas, new features, new conveniences built into this precision camera—all designed with one main purpose in mind; to make it *easy* to make better pictures—pictures that will exceed your expectations!

This manual shows you how. Step by step, in logical sequence, it explains each feature and how to use it. Begin at the beginning, follow each instruction carefully, and you will make beautiful color slides or black-and-white pictures from your very first try!

REGISTER NOW

Be sure to fill out and mail the self-addressed Registration Card enclosed with this booklet. This entitles you to the full protection of the Graflex Warranty, which reflects the traditional quality of Graflex materials and craftsmanship . . . your best assurance of complete satisfaction.

GRAPHIC 35 *JET*

MAKES IT EASY AS A-B-C TO MAKE PRIZE WINNING PICTURES

INSERT JET CHARGER, LOAD CAMERA, ADVANCE FILM TWICE, AND
SET FILM INDEX SELECTOR DIAL

} See
Pages
4-8

SEE
PAGE

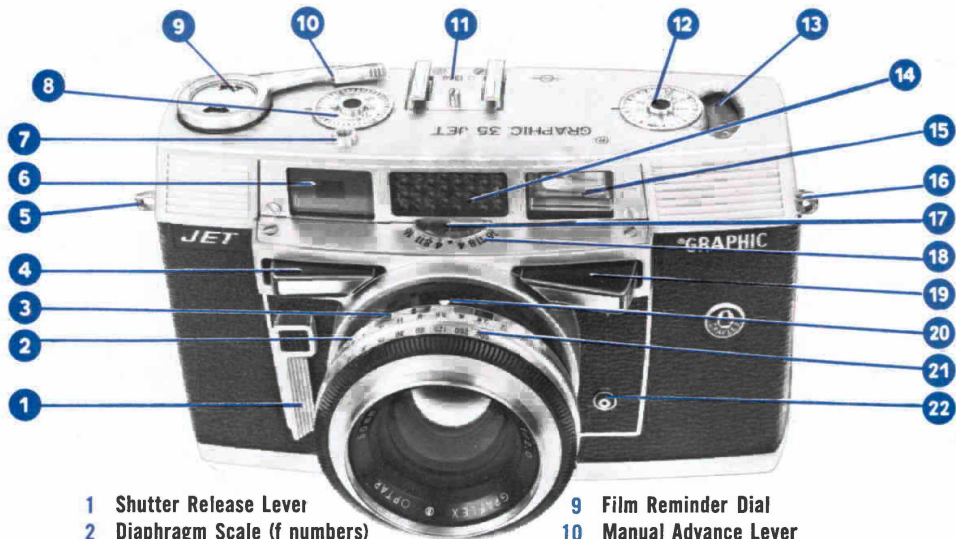
- A** Set proper exposure. 9
- B** Focus on subject and compose picture
within Bright Line Finder Frame. 10
- C** Squeeze the Shutter Release. The
Jet-O-Matic Motor will automatically
advance film and recock shutter. 13

REWIND FILM AFTER FINAL EXPOSURE, UNLOAD CAMERA, AND
HAVE FILM PROCESSED

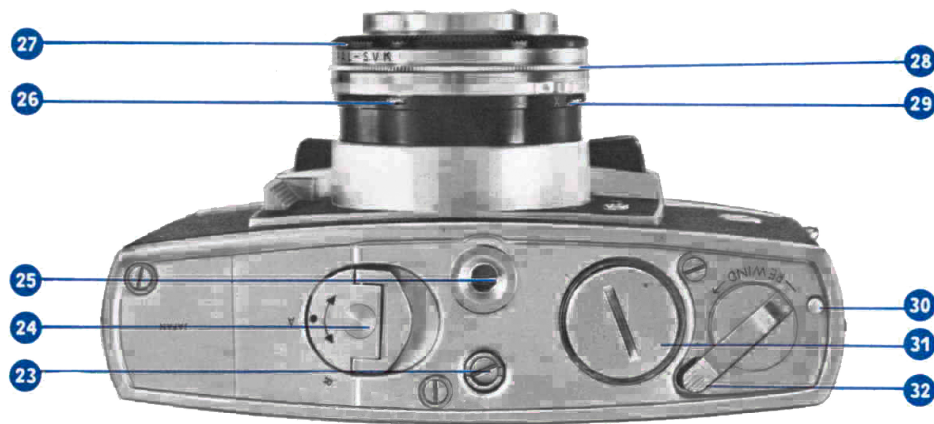
} See
Pages
14-15

SEE PAGE 32 FOR COMPLETE INDEX

GETTING ACQUAINTED WITH YOUR



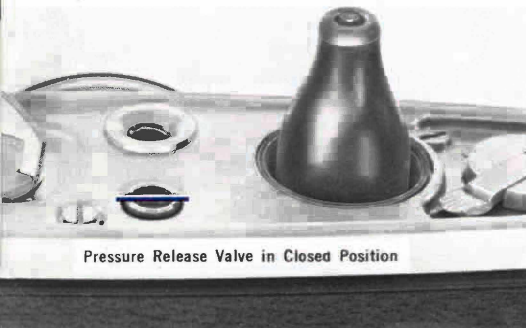
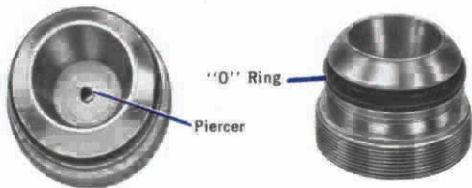
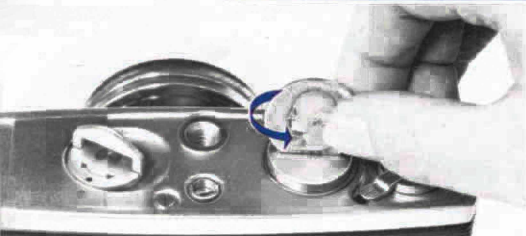
- | | |
|---------------------------------------|------------------------------------|
| 1 Shutter Release Lever | 9 Film Reminder Dial |
| 2 Diaphragm Scale (f numbers) | 10 Manual Advance Lever |
| 3 Spectramatic (Shutter) Color Band | 11 Flash Unit Clip |
| 4 Focusing Push Buttons (also No. 19) | 12 Film Index Selector Dial |
| 5 Neck Strap Eyelets (also No. 16) | 13 Exposure Meter Window |
| 6 Rangefinder Window | 14 Exposure Meter Cell |
| 7 Cable Release Socket | 15 Viewfinder Window |
| 8 Exposure Counter Dial | 16 Neck Strap Eyelets (also No. 5) |

GRAPHIC 35 *JET* 

- | | |
|--|----------------------------------|
| 17 Focusing Scale and Spectramatic Color Scale | 25 Tripod Socket |
| 18 Depth of Field Scale | 26 Delayed Action Lever |
| 19 Focusing Push Buttons (also No. 4) | 27 Exposure Setting Ring |
| 20 Index Marker (White Triangle) | 28 Exposure Combination Selector |
| 21 Shutter Speed Scale | 29 Synchro Lever |
| 22 Flash Outlet | 30 Back Release Button |
| 23 Pressure Release Valve | 31 Piercer Cap |
| 24 Rewind Clutch Release | 32 Rewind Crank Handle |

YOUR CAMERA'S SERIAL NUMBER WILL BE FOUND ON THE FLASH UNIT CLIP (PART No. 11)

HOW TO: POWER UP



1. Insert edge of coin into slot of PIERCER CAP, and remove cap by turning counter-clockwise (if cap does not turn *freely*, a Jet Charger is in place and delivering pressure; proceed with HOW TO LOAD FILM).
2. Inspect PIERCER CAP and its "O" RING, making sure all surfaces are clean.
3. Make sure PRESSURE RELEASE VALVE is in "Closed" position, as shown by position of its slot in the accompanying photo. Insert Jet Charger* into the pressure chamber, with small end outward, as shown. Screw in the Piercer Cap until heavy resistance is felt; then, *screw in quickly* against increasing force, until cap cannot be turned further. (The Piercer Cap is now locked by the retained pressure of the CO₂, and cannot be removed while gas pressure remains in the chamber). TO REPLACE JET CHARGER, SEE INSTRUCTIONS ON PAGE 24.

*FOR BEST RESULTS, USE ONLY GENUINE GRAFLEX JET CHARGERS. DO NOT USE CARTRIDGES DESIGNED TO OPERATE MODEL EQUIPMENT SUCH AS AIRPLANES, TRAINS, BOATS, ETC. IN EMERGENCY, CHEMICALLY PURE CO₂ CARTRIDGES (SUCH AS THOSE USED TO CHARGE WATER) MAY BE USED, PROVIDED THEY ARE FREE FROM DIRT, RUST, AND OTHER MATERIALS WHICH MIGHT INTERFERE WITH THE PROPER OPERATION OF THE VALVE MECHANISM OF THE JET-O-MATIC MOTOR.

HOW TO: LOAD FILM

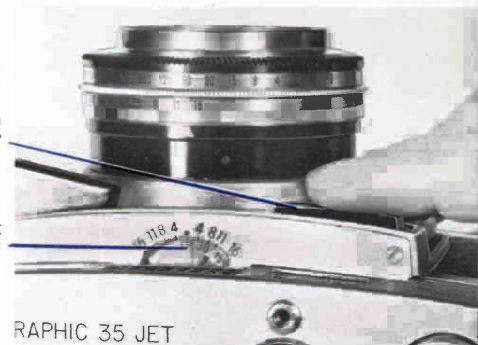
Use any 20 or 36 exposure 35mm film, either color or black-and-white. Superior color snapshots, color transparencies, or black-and-white prints may be made, depending upon the type of film you load into your camera. Your dealer will be happy to help you select the right kind.

Always load and unload your camera in subdued light to avoid fogging the film.

1. For easier loading, depress right-hand FOCUSING PUSH BUTTON fully so that ∞ (infinity) appears on the FOCUSING SCALE.
2. Turn REWIND CLUTCH to "A" ("Advance"). Press the BACK RELEASE BUTTON to open camera back.

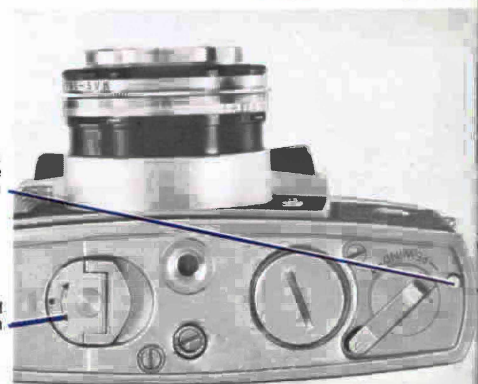
Focusing Push Button

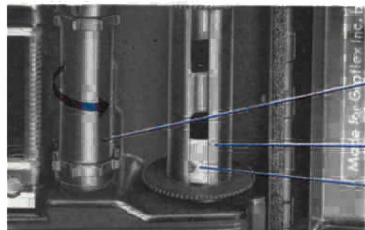
Focusing Scale



Back Release Button

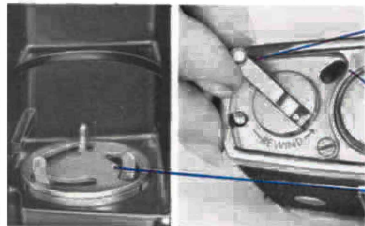
Rewind Clutch





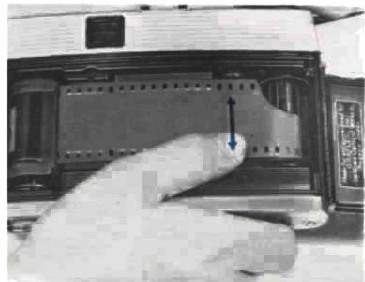
Film Advance Sprocket
Take-up Spool
Tab

3. Check **FILM ADVANCE SPROCKET**. Rotate it forward until a click is heard and it will not turn further. (If it is already locked in position, it will not rotate.) Rotate **TAKE-UP SPOOL** until film slot is in position shown.



Rewind Crank
Handle Socket
Spool Clamps

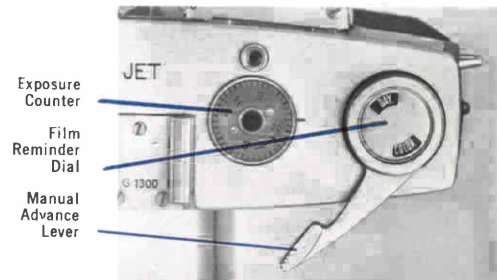
4. Release **REWIND CRANK HANDLE** by pressing forward and lifting. Then press down and rotate in *opposite* direction of arrow on camera to open the three spool clamps inside the camera (see illustration). Fold down Rewind Crank, snapping handle into its socket. Drop film cartridge into chamber.



5. Pull film across camera and insert end of film into film slot of take-up spool, making sure to engage one perforation with tab at lower end of spool. Turn spool by its serrated edge until film lies smoothly across camera.

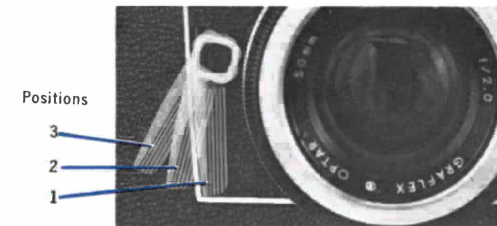
Make sure perforations along edges of film engage teeth at top and bottom of Film Advance Sprocket. Close camera back, making sure it is securely latched.

6. Set **EXPOSURE COUNTER** at 22 (for 20 exposure rolls) or at 38 (for 36 exposure rolls) by rotating counter in direction of arrow. For convenience, a dot will be found at each of these dial settings. (Note: Exposure Counter indicates number of exposures *remaining*.) Set **FILM REMINDER DIAL** to correspond with type of film being used. (Reminder Dial is for convenience only, and in no way affects camera operation.)



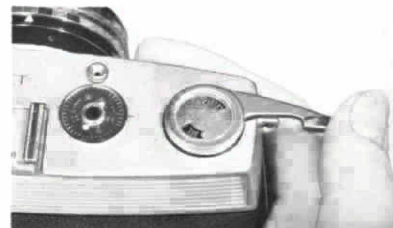
Exposure Counter
Film Reminder Dial
Manual Advance Lever

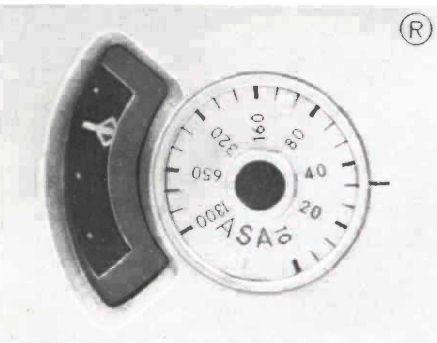
7. Advance film by pulling the **SHUTTER RELEASE LEVER** only as far as "Position 2" in the photograph. (Note: When Lever reaches "Position 2," shutter will click.) Then, with thumb of right hand, push **MANUAL ADVANCE LEVER** to the right as far as it will go, and release. Pull Shutter Release Lever to "Position 2" again, and operate Manual Advance Lever a second time. The Film Counter will now indicate "20" or "36," and you are ready for the first picture.



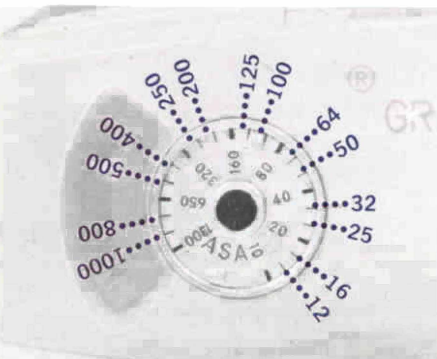
Positions
3
2
1

WHEN DESIRED, FILM MAY BE ADVANCED MANUALLY ANY TIME, AS DESCRIBED ABOVE. WHEN SHUTTER IS COCKED, MANUAL ADVANCE LEVER CAN BE MOVED ONLY SLIGHTLY.





Film Index Selector Dial. (Set at "32"—the number recommended for Anscochrome Daylight, Kodachrome, or Ektachrome Daylight films.)

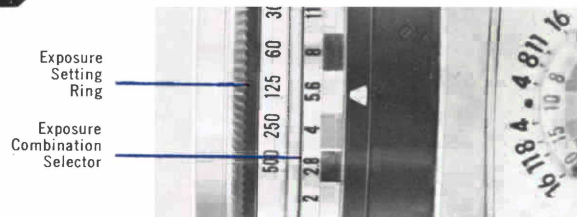


With its built-in exposure meter and automatic Shutter-diaphragm interlock, your Graphic 35 Jet eliminates all of the guesswork in making a perfectly exposed picture every time. Here's all you do:

1. Determine the ASA Exposure Index (film speed) of the film being used by consulting the chart on Page 27, or the leaflet packed with the film. Turn the FILM INDEX SELECTOR DIAL until this number appears opposite the index marker. (Note: The illustration to the left indicates intermediate ASA Exposure Index settings on the Film Index Selector Dial.)

HOW TO: SET THE EXPOSURE

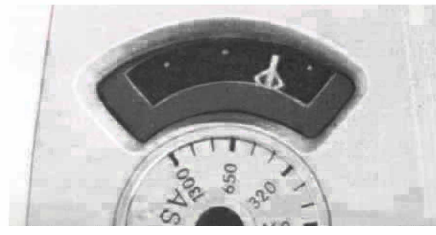
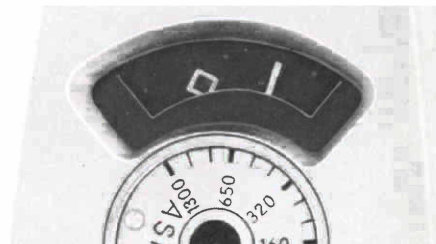
2. Set the shutter at a speed sufficient to avoid blurred pictures; generally 1/60 or 1/125 sec. To set the shutter speed quickly, turn the Exposure Setting Ring while holding the Exposure Combination Selector Ring, until the desired shutter speed number is opposite the white triangle on the lens barrel.

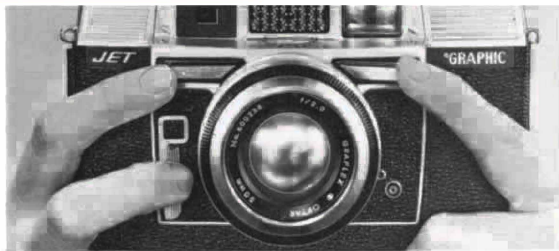


3. Point camera at the subject, and note the position of the *needle* pointer on the light-meter dial.
4. Rotate the EXPOSURE SETTING RING until the *diamond-shaped* pointer is directly over the *needle* pointer. (Note: As you rotate the Exposure Setting Ring, you may detect a varying degree of resistance as the automatic interlock changes shutter speeds.)

THAT'S ALL THERE IS TO IT. IN ONE SIMPLE OPERATION, YOU HAVE SIMULTANEOUSLY SET BOTH THE DIAPHRAGM OPENING (f number) AND THE SHUTTER SPEED IN A "RIGHT COMBINATION" FOR A PERFECTLY EXPOSED PICTURE. UNLESS YOU WISH TO SET UP A DIFFERENT "RIGHT COMBINATION" (as explained on Page 17) YOU CAN PROCEED AT ONCE TO FOCUS AND SHOOT.

FOR DETERMINING CORRECT EXPOSURE IN FLASH PHOTOGRAPHY, SEE PAGE 21.



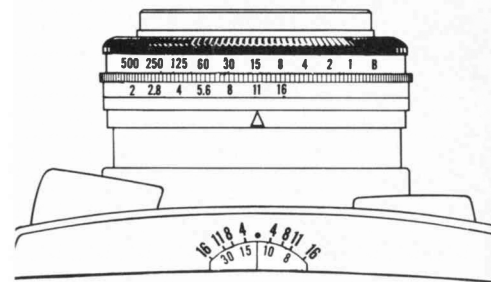


WHEN MOVEABLE IMAGE IN BRIGHT SPOT IS ALIGNED WITH STATIONARY IMAGE IN OVERALL FIELD OF VIEW, CAMERA IS ACCURATELY FOCUSED ON THAT SUBJECT.

Hold your Graphic 35 Jet as shown. Notice how comfortably it fits in your hands, with the second finger of your right hand in perfect position to squeeze the shutter release, while the tips of your index fingers are used to enjoy one of the greatest conveniences ever built into a camera . . . Push Button Focusing!

With camera held steady against your eyebrow, look through the combination range-viewfinder and fix your eye on the subject you want in focus. Press the Focusing Push Buttons alternately with left and right index fingertips, until the moveable image in the bright spot is aligned with stationary image in overall field of view.

When you have focused the camera, the camera-to-subject distance (in feet) is indicated by the number on the FOCUSING SCALE directly under the index line on the window.



HOW TO: FRAME THE PICTURE



THE TWO SHORT LINES NEAR THE TOP OF THE BRIGHT LINE FINDER FRAME INDICATE THE TOP OF PICTURES TAKEN AT CLOSE (3') DISTANCE.

Look through the eyepiece of the combination range-viewfinder; you will see the field of view outlined in the Bright Line Finder Frame. The area *inside* this frame is the exact area that will be photographed. The area *outside* the frame will not be included in the picture; it is intended only to help you in the selection of subject matter and in composing a better picture.

Now that you have focused and set the exposure, you are ready to experience a new kind of picture-making pleasure and convenience . . . **Jet Power!** The Jet Charger in your Graphic 35 Jet is a storehouse of energy which automatically advances the film and cocks the shutter after every shot. Ideal for rapid-sequence photography—*all you do is aim, frame, and shoot!*

HOW TO: MAKE THE PICTURE

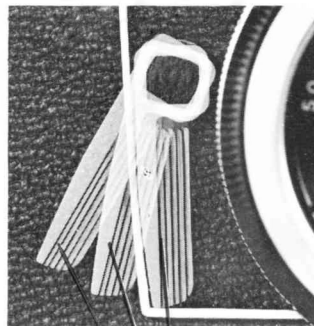
Hold the camera steady against your eyebrow, arms close to your body. Frame the picture, taking time to compose carefully. Take a deep breath—let part of it out—hold it—and squeeze the Shutter Release Lever *only as far as "Position 2" in bottom photo*. Click—that's it! Another picture you'll be proud to show!



HOW TO: ADVANCE THE FILM

After the shutter has tripped*, pull the Shutter Release Lever completely to the right ("Position 3"); allow lever to return to "Position 1." The Jet-O-Matic motor automatically advances the film and recocks the shutter. Note: Once the shutter has been tripped ("Position 2"), the exposure has been made, and your picture cannot be spoiled by moving the camera, nor will a double exposure result by further movement of the Shutter Release Lever.

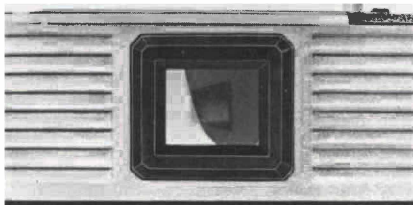
*WHEN SHOOTING WITH A SHUTTER SPEED OF 1/30 SEC. OR SLOWER, USE A TRIPOD AND HOLD THE SHUTTER RELEASE LEVER IN "POSITION 2" LONG ENOUGH FOR THE COMPLETE EXPOSURE TO BE MADE BEFORE MOVING LEVER TO "POSITION 3."



POSITIONS 3 2 1

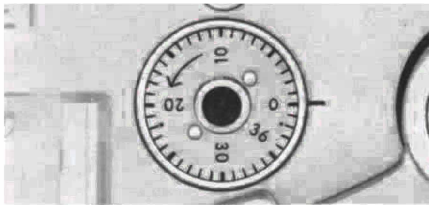
HOW TO: REWIND THE FILM

END OF FILM INDICATOR. WHEN ONLY ONE EXPOSURE REMAINS TO BE MADE, A RED WARNING FLAG AUTOMATICALLY APPEARS IN THE RANGE-VIEWFINDER WINDOW.

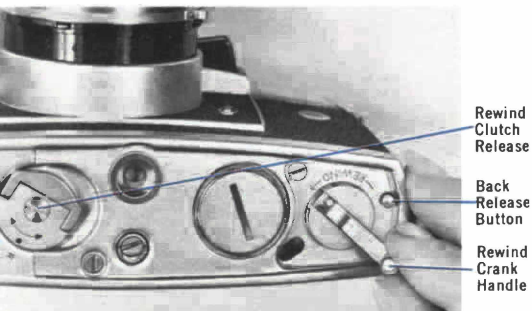


Rewind the film into its light-tight cartridge before opening the back of the camera.

WHEN FINAL EXPOSURE HAS BEEN MADE, THE EXPOSURE COUNTER DIAL INDICATES "0." UNLOAD—DO NOT ATTEMPT TO MAKE ADDITIONAL EXPOSURES, SINCE ADDITIONAL EXPOSURES MAY BE LOST IN PROCESSING.



1. Turn **REWIND CLUTCH RELEASE** to "R" ("Rewind").
2. Push **Manual Advance Lever** as far as it will go, to disengage mechanism.
3. Release **REWIND CRANK HANDLE** by pressing forward and lifting. Then turn in direction of arrow on camera while pressing down on handle (as shown). When film has been completely rewound, you will notice the handle turns more easily.



Rewind
Clutch
Release

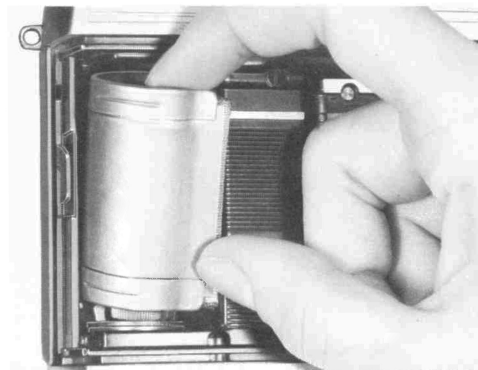
Back
Release
Button

Rewind
Crank
Handle

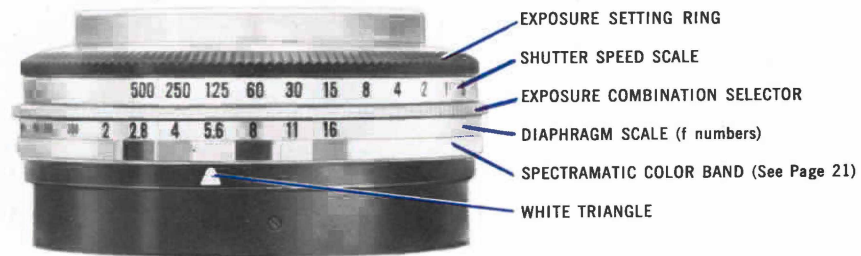
HOW TO: UNLOAD FILM

ALWAYS UNLOAD IN SUBDUED LIGHT TO AVOID FOGGING THE FILM

Press the **BACK RELEASE BUTTON** to open camera. While pressing down on **REWIND CRANK HANDLE**, turn crank in opposite direction of arrow to free cartridge from spool clamps (as shown). Remove the film cartridge.



THE PRECEDING PAGES TELL YOU EVERYTHING YOU NEED TO KNOW TO MAKE PICTURES OUT-OF-DOORS UNDER NORMAL CONDITIONS. NOW LET'S EXPLORE YOUR NEW GRAPHIC 35 JET A BIT FURTHER, AND LEARN ABOUT THE ADDITIONAL USEFUL FEATURES AND CONTROLS WHICH MAKE THIS VERSATILE CAMERA IDEAL FOR JUST ABOUT ANY PICTURE MAKING OPPORTUNITY.



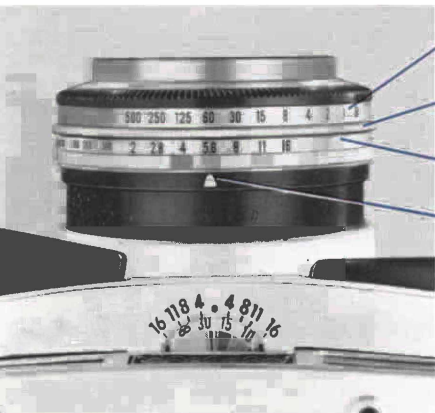
IN THE EXAMPLE SHOWN HERE, THE SHUTTER SPEED HAS BEEN SET AT 1/125th SEC. AND THE DIAPHRAGM OPENING HAS BEEN SET AT f/5.6. NOTE THAT EACH OF THESE NUMERALS HAS BEEN LINED UP WITH THE WHITE TRIANGLE. (FOR THE MEANING OF THE SMALL RED NUMERALS ON THE LENS DIAPHRAGM SCALE, AND THE "SPECTRAMATIC COLOR BAND," SEE "FLASH PHOTOGRAPHY," PAGE 21.)

The *lens diaphragm* controls the *amount* of light allowed to pass through the lens and strike the film; the *shutter* controls the *length of time* the light is allowed to enter. It is a "Right Combination" of these two factors that results in a perfect exposure.

Once you have thus set up the initial "Right Combination" (in the illustration shown it is 1/125th sec. at f/5.6), other combinations are possible, each of which will render an identical exposure, merely by rotating the *bright* ring (which now functions as an "Exposure Combination Selector"), to bring new sets of numerals into taking position directly opposite the white triangle.

You may want to use a faster shutter speed (to "freeze" an action shot, for example). If so, 1/250th sec. at f/4 will produce the same exposure as 1/500th sec. at f/2.8, and either of these produces an exposure identical to that obtained with the initial setting. Or, you may wish to use a smaller diaphragm opening for greater depth of field, which will require a correspondingly *slower* shutter speed (See Page 18). If so, each of the following combinations will produce the same exposure as the initial setting: 1/60th sec. at f/8; 1/30th sec. at f/11; 1/15th sec. at f/16. Just rotate the Exposure Combination Selector to bring the desired "Right Combination" into taking position directly opposite the white triangle.

WHAT IT MEANS: "Depth of Field" is the total distance in front of and behind the main subject, in which all objects are in acceptably sharp focus. This distance will vary according to the size of the opening (f number) in the lens diaphragm—the smaller the opening, the greater the Depth of Field. Any change in f number, however, must be accompanied by a change in shutter speed to maintain the same exposure. Your Graphic 35 Jet accomplishes this automatically; here's all you do:



Shutter Speed Scale

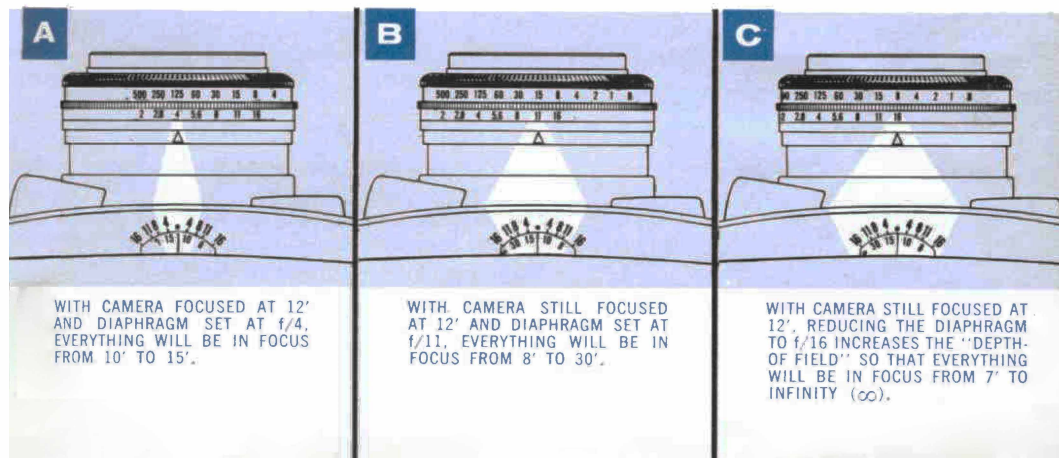
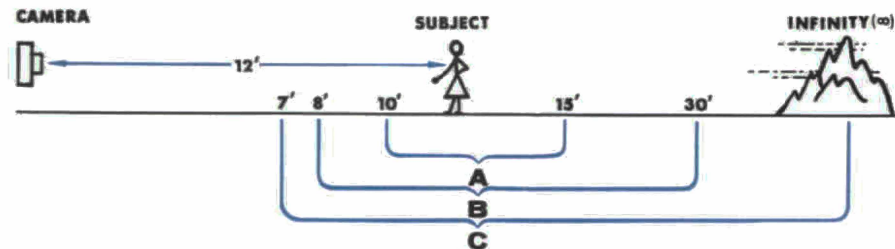
Exposure Combination Selector

Diaphragm Scale (f numbers)

White Triangle

1. Set the exposure as explained on Page 8. Next, observe the figures on the SHUTTER SPEED SCALE and the DIAPHRAGM SCALE *which line up with the white triangle*. This is a "Right Combination" for correct exposure. (For example, the settings 1/60th sec. at f/5.6 are shown here.)
2. To obtain *other* "Right Combinations" which will produce *identical exposures* to the example, rotate the EXPOSURE COMBINATION SELECTOR, one click at a time, lining up new sets of figures with the white triangle. Study the examples on the next page, and note how "Depth of Field" *increases* as the diaphragm size *decreases*. Also note how the shutter speed decreases to compensate for each reduction in opening size.

EXAMPLE



SCALE FOCUSING

Estimate the camera-to-subject distance (in feet). Use the Focusing Push Buttons to bring the corresponding number (footage

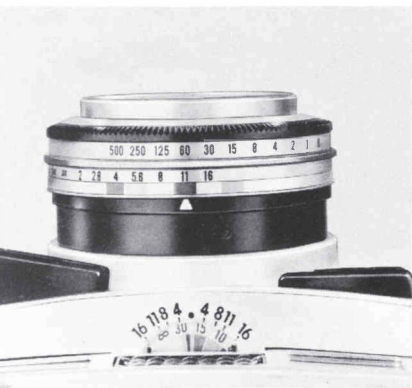
figure) on the Focusing Scale into position under the index line on the window.

PRE-SET FOCUSING

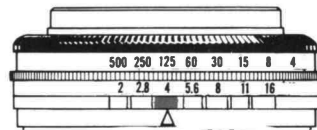
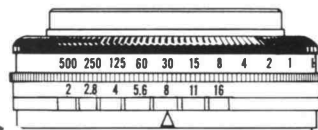
Your Graphic 35 Jet will always be ready to capture those "once-in-a-lifetime" shots if you keep the camera with the diaphragm and shutter speed pre-set as recommended by the film manufacturer for "average" subjects under "normal" conditions for the particular type of film being used. At these given settings, you can also pre-set the focus by lining up "Infinity" (∞) on the

Focusing Scale) opposite the same f number on the Depth of Field Scale corresponding to the f number at which the diaphragm has been set. This assures background always remaining in acceptably sharp focus. The closest distance at which *foreground* subjects will be in acceptably sharp focus may then be read on the *right hand side* of the Focusing Scale, directly opposite the same f number mentioned above.

EXAMPLE: Camera set at 1/60th sec. at f/11 (Ektachrome, Daylight, "average" subjects). Infinity on Focusing Scale has been set opposite f/11 on Depth of Field Scale. On right hand side of Depth of Field Scale, f/11 appears opposite 10'—the closest distance at which foreground subjects will be in acceptably sharp focus in this particular example.



FLASH PHOTOGRAPHY



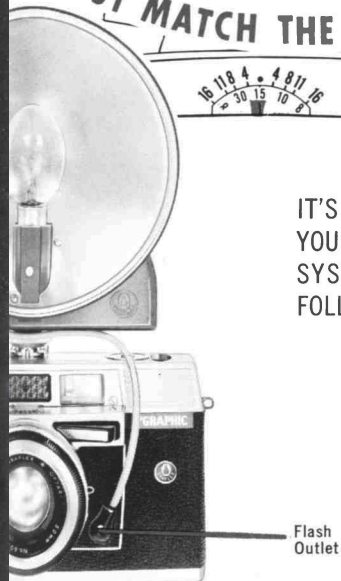
JUST MATCH THE COLORS...PRESTO! PERFECT EXPOSURE!

16 118 4 4 8 11 16
30 15 10 8

16 118 4 4 8 11 16
30 15 10 8

IT'S THAT EASY TO MAKE PERFECT FLASH PICTURES WITH YOUR GRAPHIC 35 JET . . . THE BUILT-IN "SPECTRAMATIC SYSTEM" CALCULATES THE EXPOSURE FOR YOU! JUST FOLLOW THESE SIMPLE INSTRUCTIONS:

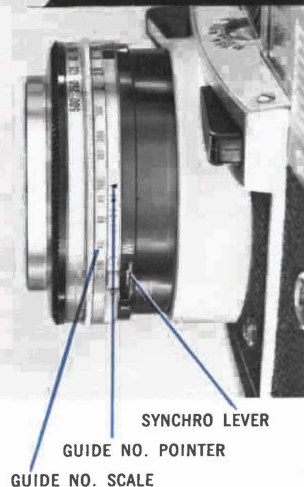
1. Attach a flash unit to your Graphic 35 Jet. Attach cord to FLASH OUTLET.



Flash
Outlet

CONTINUED NEXT PAGE

- When using No. 5, 8, 25, or M-5 flashlamps (clear or blue), set the SYNCHRO LEVER at "M" for all shutter speeds. When using AG-1, M-2, M-25 (clear or blue), SM or SF flashlamps, set the SYNCHRO LEVER at "X" and use a shutter speed of 1/60 or slower. When using Electronic Flash, see "Electronic Flash" below.
- Set the shutter at the speed needed to stop action, generally 1/60 or 1/125 sec. To set the shutter speed quickly, turn the Exposure Setting Ring, while holding the Exposure Combination Selector, until the desired shutter speed number is opposite the white triangle on the lens barrel.
- Use the chart on Page 27, or consult film or flashlamp manufacturer's instructions to determine proper "Guide Number" for the film in the camera and the shutter speed being used. Rotate the Spectramatic Color Band by its metal tab until the GUIDE NO. POINTER is opposite this number on the GUIDE NO. SCALE. (In the case of intermediate Guide Numbers, set the pointer at the corresponding intermediate position on the scale. Example: if the Guide Number is 50, Set the Guide No. Pointer halfway between 40 and 60.)

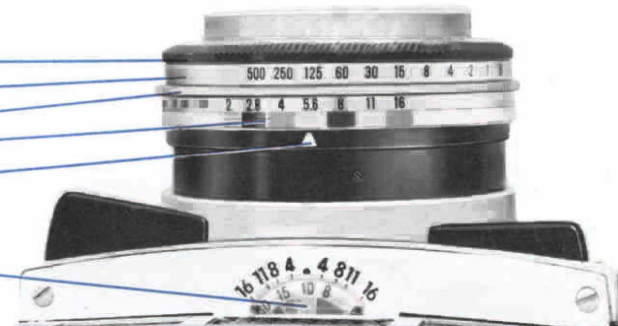


FLASH PHOTOGRAPHY

EXPOSURE SETTING RING
SHUTTER SPEED SCALE
EXPOSURE COMBINATION SELECTOR
SPECTRAMATIC COLOR BAND
WHITE TRIANGLE

SPECTRAMATIC COLOR SCALE

- Focus on the subject (as outlined on Page 10), then note the color segment on the SPECTRAMATIC COLOR SCALE immediately beneath the index line on the window. (Ignore Focusing Scale figures.)
- Now rotate the EXPOSURE SETTING RING until the matching color bar on the SPECTRAMATIC COLOR BAND is opposite the white triangle.



EXAMPLE: (ASSUME THE FILM AND FLASHLAMP BEING USED REQUIRE A GUIDE NUMBER OF 60, WITH SHUTTER SPEED OF 1/125 SECOND, AND AFTER FOCUSING ON THE SUBJECT, THE ORANGE COLOR SEGMENT IS SEEN UNDER THE INDEX LINE ON THE SPECTRAMATIC COLOR SCALE.) ROTATE THE EXPOSURE SETTING RING UNTIL THIS SAME COLOR ON THE SPECTRAMATIC BAND IS OPPOSITE THE WHITE TRIANGLE. No computations are necessary—the camera is now set for accurate flash exposures of average subjects at this distance. Subject, surroundings and individual preferences vary, and "Guide Numbers" may be altered to suit individual taste.

ELECTRONIC FLASH

WHEN USING STROBOMITE, STROBFLASH, OR OTHER ELECTRONIC FLASH UNITS, SET THE SYNCHRO-LEVER AT "X" AT ALL SHUTTER SPEEDS. USE ANY BLACK-AND-WHITE OR ANY DAYLIGHT TYPE COLOR FILM. USE DAYLIGHT EXPOSURE INDEX NUMBERS WHEN DETERMINING GUIDE NUMBERS, AS INDICATED IN THE INSTRUCTIONS IN THE STROBOMITE OR STROBFLASH MANUAL WHEN USING THESE UNITS.

SPECTRAMATIC COLORS APPLY TO FLASH PHOTOGRAPHY ONLY

REPLACING JET CHARGER

Pressure
Release
Valve
in Open
Position

Install a fresh Jet Charger when the Jet-O-Matic motor runs sluggishly or stalls completely (after 6-8 rolls of 20 exposure film, or if camera has been idle 6-8 months). To be sure of peak performance when making an extended series of pictures, install a fresh Jet Charger:

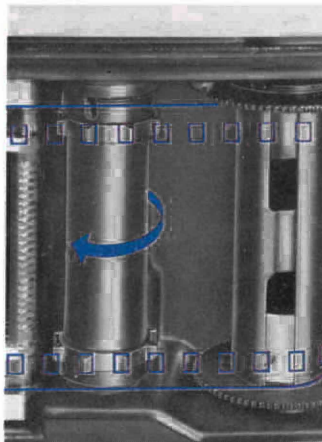
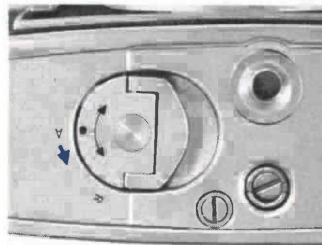
1. Use the Manual Advance Lever to make sure film has advanced and shutter is cocked, then insert edge of coin into slot of PRESSURE RELEASE VALVE and turn so that the slot is in the position shown. Pull the Shutter Release Lever all the way over to "Position 3" and allow it to return. The remaining CO₂ will be released with a *bissing sound*. This action will trip the shutter and take a picture, but the film will not be advanced, nor will the shutter be recocked at this time.*
2. *Wait for bissing to stop*, indicating that all gas pressure has been released.
3. Insert edge of coin into slot of PIERCER CAP and turn counterclockwise. *If the cap does not turn freely or the bissing sound is still heard, WAIT* until remaining CO₂ is completely released; then, remove Piercer Cap.
4. Make sure REWIND CLUTCH RELEASE is firmly against the stop at "A." Remove the exhausted Jet Charger and replace with a new one by carefully following "How To Power Up" instructions on Page 4.*

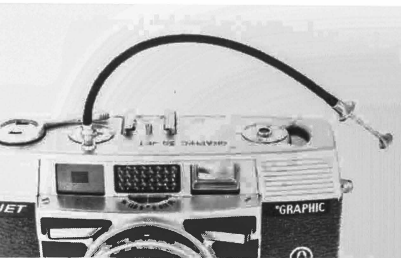
* WHEN THE NEW JET CHARGER IS INSTALLED, THE JET-O-MATIC MOTOR WILL AUTOMATICALLY ADVANCE THE FILM AND RECOCK THE SHUTTER, READY FOR YOUR NEXT PICTURE. FOR BEST RESULTS, USE ONLY GENUINE GRAFLEX JET CHARGERS

TROUBLE SHOOTING

Your Graphic 35 Jet camera has been carefully designed and built to render years of trouble-free service. Should the mechanism ever fail to operate, do not force any of the controls—recheck instructions carefully. One of the following procedures will usually restore normal operation.

1. Turn the REWIND CLUTCH RELEASE about 1/4 of the way from "A" to "R", then return it to "A." A click or popping sound will indicate that tension has been released from the mechanism, restoring Normal Film advance and shutter recocking. If this remedy fails, proceed as follows:
2. In a darkened room, open the camera back and turn the FILM ADVANCE SPROCKET backwards (as shown by direction of arrow in accompanying photo) about 1/2 turn or until it stops. Take care not to disengage film perforations from sprocket teeth. Close the camera back, cover the lens, advance film *manually* (as explained on Page 7), trip—and advance again. If mechanism still fails to operate, take camera to your Graflex dealer for prompt and skillful servicing. (Remember to uncover the lens before you continue shooting!)





CABLE RELEASE

An accessory cable release may be used at any shutter speed; attach as shown and squeeze gently to make the exposure.* After making the exposure, advance the film by pulling the release lever to "Position 3" and allowing it to return to "Position 1." The cable release does *not* advance the film automatically.

TIME EXPOSURES

Set the shutter at "B." Use a "Locking type" cable release, obtainable from your Graflex dealer, to hold the shutter open for as long an exposure as desired.*

DELAYED SHUTTER ACTION

The Self-Timer allows you to be included in the picture, since it delays the operation of the shutter for about 8-10 sec. after you pull the shutter release lever (to position No. 2 only). To set the Self-Timer move the SELF-TIMER LEVER all of the way over as shown in the illustration (note that the SYNCHRO LEVER must be at "X" before the SELF-TIMER LEVER can be moved). Once the Self-Timer has been cocked, the shutter must be tripped before the lever can return to its starting position. After the picture has been made, pull the shutter release lever through the position No. 3 and release to make the camera ready for the next picture.

*TO AVOID CAMERA MOVEMENT, ALWAYS USE A TRIPOD OR OTHER STEADY SUPPORT WHEN MAKING TIME EXPOSURES AND EXPOSURES OF 1/30 SEC. OR SLOWER.



ASA EXPOSURE INDEX NUMBERS

Typical films often used. Because film speed or identification may be changed by the manufacturer, be sure to check the film instruction sheet for the correct exposure index for that roll of film.

COLOR FILMS	LIGHT SOURCE		BLACK & WHITE FILMS	LIGHT SOURCE	
	Daylight	Tungsten		Daylight	Tungsten
Ansochrome Daylight	32	—	Anso Super Hypan	500	400
Kodachrome Daylight	10	—	Kodak Panatomic-X	25	20
Kodachrome Type F	10***	12**	Kodak Plus-X	80	64
Kodacolor	32	20**	Kodak Tri-X	200	160
Ektachrome Daylight	32	—			
Ektachrome Type F	16***	16**			
High Speed Ektachrome Daylight	160	—			
High Speed Ektachrome Type B	64*	100	*With 85B filter **With 82A filter ***With 85C filter		

SUGGESTED FLASH GUIDE NUMBERS FOR 1/60 SEC.

Consult film or flashlamp manufacturer's instructions for Guide Numbers at other speeds.

FILM	FLASHLAMPS	5B	25B	M-5B	M-2B	M-25B	Strobomite*	5	25	M5	M-2	M-25
	SYNCHRO LEVER			M	X	X	X	M	X	X		
Kodachrome Daylight				50	40	60	30	—	—	—		
Kodacolor, Ektachrome, Ansochrome Daylight				90	80	95	56	—	—	—		
High Speed Ektachrome Daylight				190	180	220	125	—	—	—		
High Speed Ektachrome Type B				—	—	—	—	220	150	200		
Kodachrome Type F				—	—	—	—	95	72	95		
Ektachrome Type F				—	—	—	—	120	86	105		

*1/500 Sec.

USING EXPOSURE METERS

All exposure meters, in order to indicate correct exposure, must be used carefully. For best exposures, meter readings should be made as follows:

1. Point the camera at the subject, tipping it down slightly to avoid including too much sky light in your reading.
2. Hold the camera so that the meter is no farther from the principal subject than the width of the subject. If this is not convenient, make a substitute reading of the back of your hand.
3. An average of the exposures for the brightest and darkest portions of the subject will usually produce the best picture.
4. With side and back-lighted subjects, be careful not to allow light to shine directly onto the meter cell. Reflections from shiny lenshoods can inflate meter readings.

USING FILTERS

When using filters, a "Filter Factor" must be employed, since the filter holds back some light, thereby changing the effective speed of the film. The simplest method to allow for this is to change the film speed setting on

the Film Index Selector. A difference of three scale lines on the Film Index Selector is equal to a 2X exposure difference; thus, when using a filter with a Filter Factor of 2, move the Film Index Selector three scale lines toward a *slower* film speed (for example, from 100 to 50). A Filter Factor of 4 means you should move the Film Index Selector six scale lines toward a slower film speed (for example, from 100 to 25). Other Filter Factors can be accommodated in the same manner. When a filter has been removed, be sure to reset the Film Index Selector Dial to avoid overexposure.

MANUAL ADVANCE LEVER

Film may be advanced and the shutter recocked with the Manual Advance Lever any time after the shutter has been tripped. This is particularly useful should the Jet Charger become exhausted in the middle of a shooting sequence, or when making pictures under extremely cold conditions. At extremely low temperatures, CO₂ gas pressure decreases, and you may not have sufficient pressure to operate the Jet-O-Matic motor. For most efficient operation at extremely low temperatures, keep the camera as warm as possible.



Keep your pictures simple. A single subject element of interest tells a more appealing story.



Have your subject engage in some activity in order to make your pictures "live."



Don't "jab" at the Shutter Release. Squeeze it gently to avoid camera movement.



Don't cut off heads. Compose your picture carefully, making sure that all of the subject is within the Bright Line Finder Frame.



Don't forget to focus.



Don't shoot directly into the sun or bright reflections. Use a lens shade to avoid this condition.

Increase your picture-making pleasure
with these genuine

GRAFLEX ACCESSORIES



JET GRAPHIC CO₂ CHARGERS

Chemically pure CO₂ gas in clean Graflex charger cylinders manufactured to rigid Graflex specifications and quality control—your assurance of peak performance of your Graphic 35 Jet Camera. Specify Graflex Jet Graphic CO₂ Chargers to be certain of dependable service. Available at Graflex Dealers in convenient 2-cartridge package.

GRAFLEX SPEED TRIPOD

A "must" when shooting at slow shutter speeds to eliminate camera movement. Exclusive "Guide-On" adapter makes it easy to attach camera to tripod head. 3-D pan head permits instant leveling without moving or adjusting tripod legs. Sturdy, lightweight; attractive anodized aqua finish. (Cat. No. 8094)



GRAFLEX TITLE SLIDES

Just write or draw on these "Do-It-Yourself" Title Slides with brush, pencil or pen to add interest to your slide shows. Special non-smear surface can be wiped clean and used again and again. Standard size fits all 35mm slide projectors.



STROBOMITE

A compact electronic flash unit combining convenience and economy—cuts cost to less than a penny a flash. Has adjustable reflector, "Ready Light" to indicate when unit is ready to fire, push-button for open-flash exposures. Operates on 4 "D" size photoflash batteries or regular 110-120 volt, 60-cycle AC house current. Your Graflex dealer will be happy to demonstrate. (Cat. No. 2201)



GRAPHIC 35 JET CARRYING CASE

Custom-matched to your Graphic 35 Jet for protection and convenience. Crafted of genuine leather and durable plastic, in smart luggage tan finish with attractive metal edge binding. (Cat. No. 8111)

INDEX

	PAGE		PAGE
Accessories	30	Flash	
Advancing the Film		Electronic	31
With Jet-O-Matic Motor	13	Flash Photography	21
Manually	7, 28	Guide Numbers	27
ASA Index Nos.	27	Focusing	
Charts		How to Focus	10
ASA Index	27	Pre-set Focusing	20
Flash Guide Nos.	27	Scale Focusing	20
Delayed Shutter Action	26	Framing the Picture	12
Depth of Field	18	Identification	
Exposure		Parts of Camera	2, 3
ASA Index	27	Serial Number	3
Flash	21	Jet Charger	
How to Set	8	How to Install	4
Meter, Use of	28	How to Replace	24
"Right Combination"	17	Loading the Film	5
Time Exposures	26	Picture-Making Tips	29
Film		Rewinding the Film	14
How to Load	5	Serial Number	3
How to Advance	13, 28	Strobomite	31
How to Rewind	14	Title Slides	30
How to Unload	15	Tripod	30
Filters	28	Trouble Shooting	25
		Unloading the Film	15

SPECIFICATIONS

- **35mm FILM:** Standard 20 or 36 exposure cartridges, black and white or color. Negative size: 1" x 1½" (24 x 36mm). Color slides, mounted: 2" x 2" (standard 35mm slide size).
- **PUSH-BUTTON FOCUSING:** No twisting or twirling; slight finger pressure on push-buttons brings lens into correct focus.
- **COUPLED RANGEFINDER:** Rangefinder, coupled to lens, actuated by focusing push-buttons.
- **FOCUSING SCALE:** Indicates distance to subject. Includes both footage figures and color-coded guide for simplified flash exposure settings ("Spectramatic System").
- **FOCUSING RANGE:** 3' to infinity.
- **DEPTH OF FIELD SCALE:** Adjacent to focusing scale, indicating depth of field at various diaphragm settings.
- **LENS:** 50mm Graflex Optar f/2.0, color corrected and coated for more brilliant pictures.
- **FILTER MOUNT:** 42mm diameter; accepts Series 6 Lens Shade and filter holder with Series 6 Filters and close-up attachments.
- **SHUTTER:** Copal SVK with full range of speeds: "B", 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500.
- **FULL SYNCHRONIZATION RANGE:** "X" at all speeds; Class "M" (No's. 5, M-5, and 25) lamps at all speeds; "M-2" lamps at speeds up to and including 1/60.
- **SELF-TIMER:** Can be engaged before or after shutter has been cocked.
- **DOUBLE EXPOSURE PREVENTION:** Shutter release will not operate until shutter has been cocked and film advanced.
- **EXPOSURE COUNTER DIAL:** Tells how many exposures remain to be taken.
- **FLASH CLIP:** Standard shoe accepts Graflash and other slip-on flash units.
- **OPTICAL VIEWFINDER:** Direct optical eye level type with built-in "Bright Line Finder Frame" for better composition.
- **FILM END SIGNAL:** Red flag automatically appears in viewfinder window to warn when last exposure is in position.
- **SPECTRAMATIC COLOR BAND:** For correct flash exposures without calculations.
- **BUILT-IN EXPOSURE METER:** Coupled through shutter controls.
- **INTERNAL JET-O-MATIC MOTOR:** Automatically advances the film and cocks the shutter after every shot. Powered by low cost Graflex Jet Chargers (CO₂ cartridges) easily installed and changed. Available from your Graflex Dealer.
- **OTHER FEATURES:** Built-in "Film Type Reminder," tripod socket, cable release socket, neck-strap eyelets, film index selector dial, DIN flash synchronization connector.

GRAFLEX[®], INC.

A SUBSIDIARY OF GENERAL PRECISION EQUIPMENT CORPORATION 

HOME OFFICE:

3750 Monroe Avenue
Rochester 3, New York

**MIDWEST SERVICE
DEPARTMENT:**

1345 Diversey Parkway
Chicago 14, Illinois

WESTERN DIVISION:

800 North Cole Avenue
Hollywood 38, California

**NEW YORK SERVICE
DEPARTMENT:**

200 Park Avenue So.
New York 3, New York

**GRAFLEX OF CANADA
LIMITED:**

47 Simcoe St.
Toronto 1, Ontario, Canada