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PART III.

The *finder* on the camera will aid the operator in composing the groups so as to get the best effect. In order to make the image visible in the finder the room will have to be well lighted with ordinary lamplight, which may be left on while the picture is being made, provided none of the lights are placed so that they show in the finder.

Eastman Flash Sheets burn more slowly than flash powders, producing a much softer light and are, therefore, far preferable in portrait work; the subject, however, should be warned not to move, as the picture is not taken *instantaneously*, about one second being required to burn one sheet.

Eastman Flash Cartridges.

Eastman Flash Cartridges may be substituted for the sheets if desired. We recommend the sheets, however, as more convenient, cheaper and capable of producing the best results. The cartridges are only superior where absolutely *instantaneous* work is essential.

Closing the Kodak.

When through using Kodak, it should be closed by simply pushing in front, reversing the operation as shown in Fig. II, page 22.

NOTE: Before closing front. be sure that the finder is in an upright position, otherwise it will interfere in its proper closing.

Removing the Film.

No dark-room is required for changing the spools in the Vest Pocket Autographic Kodak *Special*, *1.7.7.* The operation should, however, be performed in a subdued light.

I. When the last section of film (No. 8) has been exposed and the record of your name has been made as mentioned on page 29, turn the key about 14 half turns. This winds the red paper around the exposed film and protects it from the light when the top of the Kodak has been removed.

11. Provide an extra spool of film to fit this camera and take a position by a table as far as possible from any window.

III. Open Kodak as shown in Fig. I, page 5, and remove spool of exposed film by first turning the instrument over and tapping it gently on the palm of the left hand. This will eject the spool slightly, as shown in Fig. I.



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It may then be removed by drawing it out, as in Fig. II, being careful that the red paper does not unroll.

IV. Fold over end of red paper one and one quarter inches, (so as to make subsequent breaking of the seal easy) and then seal with sticker.





V. Wrap up exposed film immediately to prevent the possibility of light being admitted. VI. Now take out empty spool as shown on

vI. Now take out empty spool as movin repage 7, Fig. III, and reload camera as previously described on page 5.

VII. The roll of exposures can now be mailed to us for finishing (see price list), or you can do the developing and printing yourself.

Nore-In mailing us film for development do not fail to mark the package plainly with your name and address, and write us a letter of advice, with remittance.

(42)

Important.

Autographic Film should be developed as promptly as possible after exposure.

The quality of the image on all sensitized products is retained by immediate development after exposure.

"Cinch Marks."

If the film and paper loosen up a trifle when taken from the camera, many amateurs are likely to take the cartridge in the hand and wind it as closely as possible, cinching it tightly with a twisting motion. There's nothing more likely to injure the negative than this tight drawing of the film as it abrades the surface, making fine parallel scratches running lengthwise of the film, which, in some cases, will ruin the negative. Do not "cinch" the cartridge. It simply needs to be wound tightly enough so that the red paper keeps inside the flanges of the spool.

(43)

PART IV.

Developing.

There is no necessity of working in a darkroom or waiting until night to develop film. It can be done in daylight at any time and place. And the daylight method of developing film gives better results than the darkroom way.

Film may be developed in daylight by the Kodak Film Tank method. Detailed directions for developing will be found in the manual which accompanies the goods. The operation is given briefly in the following pages.

We recommend the Kodak Film Tank method particularly for its simplicity and the uniformly good negatives which it gives.

The preparation of an Autographic Film Cartridge for development and the method of developing it in the Kodak Film Tank is precisely the same as for the regular N. C. Film cartridge.

Developing with the Kodak Film Tank.

For use with the Vest Pocket Autographic Kodak Special provide a V. P. Kodak Film Developing Tank.

The V. P. K. Film Tank consists of a wooden box, a light-proof apron, a "transferring reel", a metal "solution cup", in which the film is developed, and a hooked rod for removing film from solution. There is also a dummy film cartridge with which one should experiment before using an exposed cartridge. The various parts of the outfit come packed in the box itself.

I. Take everything out of the box. Take Apron and Transferring Reel out of solution cup.

II. Insert the axles marked C and D in the cut, in the holes in box. Axle D is inserted from the front of box, as shown in Fig. I, while axle C is inserted from the opposite side. The front will be towards you when the spool carrier in end of box is at your right.

III. The axle "C" must be pushed through the hollow spindle which will be found loose in the box. The two lugs on this spindle are to engage the hooks at the end of apron. The axle "D" must be pushed through the hollow rod of the Transferring Reel to hold reel in position as indicated in the illustration. The flanges of each end of the Transferring Reel are marked "Y" in the illustration.



FIG. I.

(45)

IV. Attach one end of the apron to spindle through which axle "C" passes, by means of the metal hooks which are to be engaged with the lugs on the spindle. The corrugated side of the rubber bands is to be beneath the apron when it is attached. Turn toward end of box on axle "C" and wind entire apron on to spindle, maintaining a slight tension on apron in so doing by resting one hand on it.

IMPORTANT. Preparing the Cartridge.

Film to be used in the Kodak Film Tank must be fastened to the red paper at both ends. All films are fastened at one end in our factory. The operation can be accomplished in the following manner:

Just before you are ready to develop (holding spool with the unprinted side of the red paper up) unroll the red paper carefully until you uncover the piece of gummed paper which is fastened to end of film and is to be used as a means of fastening film to red paper. Moisten the gummed side of sticker evenly for about an inch across the end and stick it down to red paper, rubbing thoroughly to secure perfect adhesion. Wind end of red paper on spool again and the cartridge is ready to insert in machine.

V. Insert film cartridge in spool carrier and close up the movable arm against end of spool. The extensions at end of spool extending through openings in spool carrier. Have the red paper ("B" in Fig. 1) lead from the top. Norm-It will be found that if the carrier is lifted

upward, the spool may be more readily inserted.



FIG. II.

VI. Thread the red paper underneath the wire guard on Transferring Reel through which axle "D" passes, (Fig. II), and turn axle slowly to right until the word "stop" appears on red paper.

VII. Now hook apron to lugs on axle "D" in precisely the same manner that you hooked the opposite end to axle "C" except that axle "D" turns to the right.

VIII. Turn handle half a revolution so that apron becomes firmly attached and put on cover of box. Turn axle "D" slowly and steadily until red paper, film and apron are rolled up together on Transferring-Reel. As soon as this is completed the handle will turn very freely.

IX. Prepare developing solution in solution cup according to directions in V. P. Kodak Film Tank Manual. X. Remove cover from box and take hold of the red paper which projects beyond the end of the apron. Then wind axle "D" until the red paper becomes taut.

NI. Draw out axle "D" holding apron and red paper with the other hand to keep end of apron and paper from loosening. Remove entire Transferring Reel, containing apron, paper and film (which is freed by pulling out axle "D") and slip a small rubber band around the apron tightly so that there will be no possibility of its unwinding.

Note: In removing reel do not squeeze the apron. as by doing so there will be a tendency for it to buckle.



Fig. III. (48) XII. Insert the Transferring Reel (containing apron, paper and film) in the previously prepared developer immediately.

Using the Solution Cup.

XIII. Having filled Solution Cup, lower Transferring Reel into cup with end containing cross bar up (Fig. III). Let reel slide down very slowly so solution will not overflow. The operation of removing reel from box can be done in the light of an ordinary room, but for safety it is well that the light should not be too bright. The total length of time for development is 20 minutes.

NOTE: Immediately after lowering reel into solution cup catch it with the wire hook and move gently up and down two or three times, but not allowing reel to come above surface of developing solution. This is to expel air bubbles.

Allow development to proceed for about two minutes with cover of solution cup off; then place the cover on the cup (Fig. IV.), putting lugs on cover into the grooves, and tighten down by turning to right.

Now turn the entire cup end for end and place in a tray or saucer to catch any slight leak from the cup. At the end of three minutes again reverse the cup, and, thereafter, reverse every three minutes until the time of development (20 minutes) has elapsed. Turning the solution cup allows the developer to act evenly and adds brilliancy and snap to the negatives.

XIV. The wire hook is to be used for lifting the reel out of the cup. Hook the cross bar in one end of reel. When the end of reel containing cross bar is at the bottom of cup, the hook is just long enough to catch the cross bar.



FIG. IV

XV. When developing is completed pour out developer and fill cup with clear cold water and pour off. Repeat three times. When removing cover of solution cup, place cup in palm of hand so as to obtain a firm grip on bottom of can. Then grip cover with other hand and turn slowly to the left when cover will loosen readily. Then remove Transferring Reel, separate film from red paper and place immediately in the Fixing Bath which should be in readiness, prepared in accordance with directions on page 57.

The film may be separated from the tissue and red paper in the subdued light of an ordinary room if the developer is thoroughly washed out.

The operation of separating film and red paper should be done over a bowl, bath tub or sink.

Any pieces of the tissue or paper that may adhere to the film when it goes into the fixing bath must be removed by gently rubbing with the wet finger before the film is washed and dried.

If the tank is not to be used again immediately, the apron and tank should be washed and wiped dry. The apron must always be perfectly dry when film is rolled up in same.

The apron will dry almost instantly if immersed for a second in hot water.

Keep apron wound on Transferring Reel when not in use. Never leave apron soaking in water.

Important.

When cutting apart exposures made on Autographic Film, after development, always leave the writing next to the foreground of the adjoining negative in the case of vertical pictures, or at the left hand of the negative when looked at from the back, (the back is the shiny side), right side up, in the case of horizontal pictures.

The result is a negative bearing a facsimile of the memorandum written upon the back of the red paper, developed on its margin or face as the case may be. For it is obvious that by winding the film the width of a line the writing may be made to appear in the foreground of a vertical picture (of course the lower line must be written first) or on the left hand side of a horizontal picture.

Time and Temperature for Tank Development.

It sometimes happens that the amateur is not able to obtain or maintain the standard or normal temperature of 65 degrees Fahr. when using the Kodak Film Tank and the Kodak Film Tank Developer Powders. In such cases the following table will be found of value:

		ONE	line Powder	TIME Two Powders		
	ERATURE				linutes	
70 L	egrees	15 M	linutes	0 1	muco	
69		10		9		
68		17		9		
67		18				
66	••	19			" Normal	
65	" Normal	20	"Norma	1 10	Normai	
64	**	21				
63		22				
62	••	23		11		
61	**	24				
60	**	25			**	
59		26		12		
58	••	27				
57		28				
56	**	29 -		13		
55	**	30	••			
54.	**	31	**			
53	**	32		14		
52	••	33	••			
51	••	34				
50	••	35	**	15		
49	**	36				
49	**	37	••			
40	**	38	••	16		
	**	39	**			
46		40		17	••	
45		10				

Temperature of developer must not exceed 70 degrees Fahr., as above that point there is danger of the film frilling. 45 degrees Fahr. is the lowest temperature at which the developing powders can be dissolved and even at this temperature the powder must be finely crushed and added slowly to the water

NoTE: Avoirdupois weight is the standard used in compounding photographic formulæ.

It is best to use the normal temperature (65 degrees) when possible, as the use of a developer that is colder than normal has a slight tendency to increase the contrast in a negative while the use of a developer warmer than normal slightly flattens the negatives.

Developing Several Rolls of Film at Once.

Several rolls of film may be developed at the same time if the operator wishes. To do this it is necessary to have a "Duplicating Outfit" consisting of 1 Solution Cup, 1 Transferring Reel and 1 Apron for each additional roll of film to be developed. The extra rolls of film may then be wound on to Transferring Reels as previously described and immersed in the Solution Cups.

Load your Kodak with Kodak Film

Look for this Trade Mark on the Box.



Developing in the Dark Room.

Provide an Eastman A B C Developing and Printing Outfit, which is suitable for any negative 4 x 5 or smaller.



A B C DEVELOPING OUTFIT

The Outfit Contains:

11 T					\$.25
1 Kodak Candle Lamp,	•	•	·	•	.40
4 Developing Trays, .	•	·	•	•	.15
1 4-oz. Graduate, .		•	•	•	
1 A x 5 Printing Frame,		•	·	•	.25 .05
1 4 x 5 Glass for same,	•		•	•	.05
	•	· • •		· ·	.00
1 Box [5 tubes] Eastman	n Sp	ecial	Dev	ei-	.25
1/ Dannel Kodak Acid Fi	xing	Pow	der.		.15
					.40
2 Doz. Sheets 4 X 5 Vero 1 2-oz. bottle Nepera Solu	ntion	h. foi	Vel	ox,	.10
1 2-0Z. Dottle Reperation	omi	le		1.1	.10
1 Package Potassium Br	onno	uo,			.10
1 Instruction Book, .	۰.	•	•	· · ·	.10
					\$2.25

Price complete, neatly packed, \$1.50

Also provide a pair of shears, a pitcher of cold water (preferably ice water), a pail for slops, and a dark room having a shelf or table.

By a dark room is meant one that is wholly dark—not a ray of light in it. Such a room can easily be secured at night almost anywhere.

The reason a dark room is required is that the film is extremely sensitive.

to white light, either daylight or lamplight, and would be spoiled if exposed to it even for a fraction of a second.

Having provided such a room or closet, where, when the door is closed, no ray of light can be seen, set up on the table or shelf the Kodak Candle Lamp.



THE LAMP.

The lamp gives a subdued red

light which will not injure the film unless it is held close to it.

Set the lamp on the table at least eighteen inches from the operator.

I. Fill one of the trays nearly full of water. (first tray).

II. Open one of the developer powders, then put the contents [two chemicals] into graduate and fill it up to the four-ounce mark with cold water. Stir until dissolved, with the wooden stirring rod, and pour into the second tray.

III. To develop, unroll the film and detach the entire strip from the tissue and red paper. IV. Pass the film through the tray of clean cold water as shown in the cut, holding one end in each hand. Pass through the water several times, that there be no bubbles remaining on the film. When it is thoroughly wet with no air bubbles, it is ready for development.

V. Now pass the film through the developer in the same manner as described for wetting it, and shown in cut. Keep it constantly in motion, and in about one minute, the high lights will begin to darken and you will readily be able to distinguish the unexposed sections



between the negatives and in about two minutes will be able to distinguish objects in the picture. Complete development in the strip, giving sufficient length of development tobring out what detail youcan in the thinnest negatives. There is no harm in having your negatives of different dens-

ity. This can be set right in the printing. The difference in density does not affect the difference in contrast.

Keep the strip which is being developed constantly in motion, allowing the developer to act 5 to 10 minutes. The progress of development may be watched by holding the negatives up to the lamp from time to time. When developing the film use a red lamp and take care not to hold the film close to the lamp for any length of time. This film is very rapid and is orthochromatic, therefore liable to fog unless handled very carefully.

VI. After completing development, transfer to the third tray and rinse two or three times with clear, cold water.

Note: If preferred, the negatives may be cut apart and fixed separately. Instructions for cutting apart Autographic Films are given on page 51.

Fixing.

Provide a box of Kodak Acid Fixing Powder and prepare a fixing bath as per directions on the package. Put this into a tray (fourth tray of an A B C Developing Outfit) or wash bowl. When the powder has thoroughly dissolved add to the solution as much of the Acidifier, which you will find in a small box inside the large one, as directions call for. As soon as this has dissolved the Fixing Bath is ready for use. Any quantity of the bath may be prepared in the above proportions.

Pass the film face down (the face is the dull side) through the fixing solution as shown in cut on page 56, holding one end in each hand. Do this three or four times and then place one end of the film in the tray, still face down, and lower the strip into the solution in folds. (If the negatives have been cut apart immerse them singly.) Gently press the film where the folds occur, not tightly enough to crack it, down into the solution a few times during the course of fixing. This insures the fixing solution reaching every part of the film. Allow the film to remain in the solution two or three minutes after it has cleared, or the milky appearance has disappeared, then remove for washing.

Film must always be fixed in an acid bath. There is nothing superior to the Kodak Acid Fixing Bath, but the following formula may be used if desired:

ACID HYPO FIXING BATH.

Water,	-	· · · ·	-	-	-	-	-	64 ozs.
Hypo,	-	-	-	-		~	-	16 ozs.

When thoroughly dissolved, add 4 ozs. Velox Liquid Hardener, or the following hardening solution, dissolving the chemicals separately, and in the order named:

Water,	-	-	5 ozs.
E K Co. Sulphite of Soda,		-	1 oz.
Acetic Acid (28 per cent.), -	-	-	3 ozs.
Powdered Alum,	-	-	1 oz.

- If preferred, 1 oz. Citric Acid can be substituted for Acetic.

This bath may be made up at any time in advance and may be used so long as it retains its strength, or is not sufficiently discolored by developer carried into it, to stain the negatives.

Note: If you are using an A B C developing outfit the fixing solution must only be used in tray No. 4, and the negatives, after fixing, must not be put in either No. 1 or No. 2 trays. Neither must any of the fixing solution be allowed to touch the films, through the agency of the fingers or otherwise, until they are ready to go into the fixing bath, otherwise they will be spotted so as to be useless.

Washing.

There are several ways of washing film. It may be placed in a tray or wash bowl of cold water and left to soak for five minutes each in five changes of cold water, moving about occasionally to insure the water acting evenly upon it, or it may be given, say two changes as above and then left for an hour in a bowl with a very gentle stream of water running in and out.

If negatives have been cut apart, they should

not be allowed to mat together, but should be separated a part of the time in order that they may wash thoroughly.

Drying Film Negatives.

When thoroughly washed, snap an Eastman Film Developing Clip on each end of the strip and hang it up to dry or pin it up. Be sure, however, that it swings clear of the wall so that there will be no possibility of either side of the film coming in contact with the latter.

DRYING WITH CLIPS

In tray development, when the film has been cut up, pin by one corner to the edge of a shelf or hang the negatives on a stretched

string by means of a bent pin, running the pin through the corner of film to the head, then hooking it over the string.

Instructions for cutting apart Autographic Film Exposures are given on page 51.

Over-Development.

Over-development may be caused by a mistake in leaving film in the developer too long; (59)

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by using solution too warm, or by those who mix their own developer in getting the developing agent too strong.

In this case the negative is very strong and intense by transmitted light and requires a very long time to print. The remedy is to reduce by means of Eastman Reducer, or the following method.

Reducer.

First soak negatives 20 minutes in water, then immerse in:

Water,			-	-		-	-	6 ounces,
Ump	1.	-	1.4		1		-	1/2 ounce.
Potassi	um (Inti	Ferri	icya) pois	on,	(sat	urat -	ea -	20 drops.

Rock tray gently back and forth, until negative has been reduced to the desired density, then wash ten minutes in running water, or in four changes of water.

Negatives may be reduced locally by applying the above solution to the dense parts with a camel's hair brush, rinsing off the reducer with water occasionally to prevent its running onto the parts of the negative that do not require reducing.

Under-Development.

An under-developed negative differs from an under-exposed one, in that it is apt to be thin and full of detail, instead of harsh and lacking in detail.

The defect would be caused by a mistake in removing film from the developer too soon, by

using solution too cold or by an error in compounding chemicals. It is obvious that neither of these defects will occur in Tank Development if instructions are properly followed.

Intensification by Re-Development.

There are a number of different processes for intensifying under-developed negatives, the most common being by means of Bichloride of Mercury, and Sodium Sulphite or Ammonia.

This method, though simple to use, has its disadvantages, as it builds up the highlights out of proportion to the weaker portions of the negative, and also, unless carefully handled is apt to produce iridescent stains, or granular markings that are impossible to remove.

While the method of intensification by redevelopment is only comparatively new, the now common use of Velox and Royal Redeveloper for sepia tones on Velox and Bromide prints will make this the most effective means of intensification.

Velox or Royal Re-developer may be used in exactly the same manner as for producing Sepia tones on developing paper.

Negatives intensified by re-development are built up evenly, without undue contrast and without the chance of staining.

The advantage of being able to use the chemicals for two different purposes (Sepia toning prints or intensifying negatives) is obvious, the result in either case being all that could be desired.

PART V.

PRINTING.

The Use of Autographic Negatives.



AUTOGRAPHIC NEGATIVE. (62) It is not a part of the Autographic plan that the record be made to appear upon the print, but such record may be reproduced in the print itself or omitted, as desired. Of course, if the record appears within the negative proper it will show on the print, if the print is full size. The illustration on page 62 will show how the record will appear on the negative.

The "Autographic Record Strip" (page 28) is printed merely to suggest a few of the thousand and one ways in which autographic records may be used to add value to your negatives.

Printing on Velox Paper.

Film negatives yield beautiful soft black and white effects when printed on Velvet Velox.

Manipulation.

Velox prints may be successfully made, using daylight for exposure. Select a north window, if possible, as the light from this direction will be more uniform. Owing to its sensitiveness, the paper should be handled in subdued light, otherwise it will be liable to fog. Proper precautions should be taken to pull down the window shades and darken the room sufficiently during manipulation. If the light is too strong for printing it should be subdued or diffused by the use of several thicknesses of white tissue paper. Owing to the varying intensity of daylight, uniform results are not as certain as when using artificial light. In the following instructions for man-

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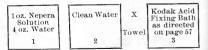
ipulating Velox, it must be understood that artificial light will be the light used. A kerosene lamp, fitted with around burner, (known as Rochester burner) may be used, but owing to the decidedly yellow light this affords, a considerably longer exposure will be necessary than when using a Mazda lamp.

The comparative exposures with Special Velox from an average negative using various sources of light are as follows.

NOTE-When using Regular or Contrast Velox increase the exposure.

Size of	Distance	60 Watt	40 Watt	25 Watt	Welsbach	Average
Negative	from Light	Mazda	Mazda	Mazda	Burner (Gas)	Oil Lamp
3¼ x 5½ 4 x 5 and smaller	10 In.	secs.	6 Secs.	12 Secs.	16 Sees.	50 Secs.

Having provided a suitable light and convenient place to work, arrange three trays before you on your work table in this order:



Note.—Do not allow the direct rays of light used for printing to strike tray No. 1, which is used for the developer. Place a piece of red or orange-colored paper between the light and tray No. 1, so as to obtain a subdued and safe light. By doing so you will avoid fogging the paper during development. Proper temperature is important and for best results the developer should be 70 degrees Fahr. and the fixing bath and wash water 50 degrees Fahr. If the developer exceeds 70 degrees the prints are liable to fog and the emulsion soften. If too cold, chemical action is retarded, resulting in flat, weak prints.

Printing.

Velox may be safely manipulated ten feet from the ordinary gas flame.

Having everything in readiness, open the printing frame of the A B C outfit and lay the negative back down upon the glass—(the back is the shiny side).* Place upon the negative a sheet of the Velox paper face down.

The paper curls slightly, the face or sensitive side being concave; an absolute test is to bite the corner of the sheet; the sensitive side will adhere to the teeth.

The paper not used must be kept covered in its envelope.

Place the printing frame the correct distance from the artificial light used, holding the frame away from the burner a distance equal to the diagonal of the negative. See exposure table, page 64.

We would suggest, when making your first exposures, that a few tests be made. You can then, by comparing your other negatives with

*The strips of grummed paper which are included with the Outlit, are to be used for fastening the negative in place on the glass of the printing frame, or to attach the negative to a mask, so as to prevent it from slipping, which would cause a dark streak to appear between the edge of the picture and the white margin. the one you have tested, make a fairly accurate estimate of the exposure required by any negative.

Make an exposure, using your best judgment as to the distance from the light and time of printing. If your first experiment is not satisfactory, try another sheet of paper, varying the time for the exposures as indicated by the first result.

When the desired effect is secured, you can make any number of prints from the same negative, and if the time of exposure, distance from light, as well as the time of developing are identical, all the prints should be equally good. You can soon learn to judge a negative so as to get the correct exposure the first time as the paper has considerable latitude.

After taking the exposed sheet of paper from the printing frame, in a safe place previously selected, it is ready for development. The dry print should be immersed face up in the developer (Tray No. 1) and quickly and evenly covered with the solution. Contrast and Regular Velox should be developed not to exceed twenty seconds; Special Velox, about twice as long; no exact time can be given, as the strength of developer used would make a difference in the time.

As soon as the image has reached the desired depth remove from the developer to the second tray and rinse for a moment, turning the print several times, then place it in the acid fixing bath (Tray No.3) keeping the print moving for a few seconds, the same as was done when rinsing, so as to give even and thorough fixing, preventing stains and other troubles. Leave the print in this solution until thoroughly fixed; this will take about fifteen minutes. When fixed remove from the fixing bath and wash thoroughly for about an hour in running water, then dry. After drying, prints may be trimmed and mounted.

Do not use a fixing bath that has been used for fixing film.

You should be systematic in working, remembering that cleanliness is essential in photography. Care must be taken to prevent the Hypo fixing bath in any way getting into the tray containing the developer. Have a clean towel when beginning the work and wipe your hands each time after you have handled prints in fixing bath.

Details.

CLEAN DISHES: CLEAN HANDS: The faintest trace of Hypo will spoil the prints if it gets into contact with them before the proper time. Great care should therefore be used to have both hands and trays clean.

DEVELOPER once used should not be carried over and used the next day or subsequently.

Don't

Don't use a tray for developing which has previously been used for hypo solution, pyro developer or final washing.

Don't use an old fixing solution, it is liable to cause trouble.

Difficulties, Their Cause and Remedy.

VEILED WHITES: Caused by forcing development, fogged paper.

REMEDY: Give more time, screen light. Also caused when image flashes up in developer by too much exposure, in which case give less time.

MUDDY SHADOWS: Caused by developer being used for too many prints. Remedy, use fresh developer.

CONTRASTY PRINTS: Caused by insufficient time or negative too harsh. Remedy, give more time; make softer negatives.

FLAT PRINTS: Caused by overtiming or negatives flat. Remedy, give less time in first instance, and if trouble is with negatives, give negatives less time; develop further.

STAINS: Caused by forcing development, or chemically dirty dishes or hands, insufficient fixing, foreign chemicals. Remedy, do not allow chemicals other than those given in formulæ to come in contact with paper; use fresh fixing bath; keep prints in constant motion the entire 15 minutes they remain in fixing, and if due to forcing development give more time in printing.

ROUND WHITE SPOTS: Caused by air bells which form on face of print when developer is first flowed on. Remedy, use more developer, break air bells with finger.

For further particulars, ask your dealer or write us for a copy of the "Velox Book."

Be Sure to Use Pure Chemicals.

To get the best negatives from your films to get the best prints from your negatives—it is imperative that the chemicals which you use be absolutely pure.

For all our films and paper we furnish powders and solutions mixed to just the proper proportions and compounded from the purest chemicals, rigidly tested in our own laboratories.

But we go even further than this. For those who prefer to mix their own solutions by formula, we have prepared a line of carefully tested standard photographic chemicals.



Don't mar good film and plates and good papers with inferior chemicals.

This seal stands for the highest purity. Be sure its on the package before purchasing.

EASTMAN KODAK CO. Rochester, N. Y.

PART VI.

Mounting.

The most satisfactory method for mounting prints is by the use of Kodak Dry Mounting Tissue, as by the use of this tissue the print lies perfectly flat in absolute contact even on the thinnest mount and absolutely without curl.

The Tissue comes in flat sheets, dry, not sticky, and easy to handle, and being waterproof, protects the print from any impurities in the mount stock. The process of mounting is as follows: lay the print on its face and tack to the back a piece of the tissue of the same size as the print by applying the point of a hot flatiron to small spots at opposite ends. Turn the print face up and trim to size desired, then place on mount and cover the print with a piece of smooth paper and press the whole surface with a hot flatiron. Press. don't rub. The iron should be just hot enough to siss when touched with the wet finger. If the iron is too hot the tissue will stick to the mount and not to the print, if too cold the tissue will stick to the print and not to the mount.

Remedy: Lower or raise the temperature of the iron and apply again.

When mounting with the ordinary paste, prints should be mounted wet. After the prints have been trimmed to correct size, immerse in clean water for a few moments then place in a pile face down on a sheet of clean glass and squeegee off all surplus moisture, apply the paste with a bristle brush working in the paste thoroughly, then lift the print by the opposite corners, turn it over and place it in proper position on the mount.

Cover with a sheet of clean blotting paper and press into contact with squeegee or rubber print roller.

Coloring Velox Prints.

The various surfaces of Velox are particularly well adapted for coloring, and prints may be made extremely interesting through the many beautiful effects obtained by the use of Velox Transparent Water Color Stamps. No experience is necessary when using these colors and any amateur can secure excellent results as full directions accompany each set of stamps.

Put up in book form, they will be found most convenient. Each book contains twelve colors, arranged in perforated leaflets, making twenty four stamps of each color.

The stamps will also be found most desirable for the coloring of Bromide enlargements, lantern slides, etc., and in fact for all work where perfect blending and transparency of color is required. See price list,

EASTMAN KODAK CO., Rochester, N. Y.

PRICE LIST.

Vest Pocket Autographic Kodak Special, fitted with Kodak Anastigmat Lens,	
f.7.7,'	\$10.00
Imported Satin Finish Leather Case, -	2.00
Autographic Film Cartridge, eight expo- sures, 15% x 2 ¹ / ₂ , No. A-127,	.20
Kodak Color Filter, No. 8, for use with Vest Pocket Autographic Kodak Spec-	
ial, f.7.7,	.50
Kodak Portrait Attachment, No. 8, -	.50
Vest Pocket Kodak Film Tank (for de- veloping Vest Pocket Autographic	0.50
Kodak Film),	2.50
Duplicating Outfit for same,	1.25
*Vest Pocket Kodak Film Tank Devel- oper Powders, per pkg. ½ doz., -	.15
*Kodak Acid Fixing Powder, per 1	
pound package,	.25
Do., 1/2 pound package,	.15
Do., ¼ pound package,	.10
*Eastman Eikonogen Developer Pow- ders (for dark-room development),	
per dozen pairs,	.50
Do., per 1/2 doz. pairs,	.25
*Eastman Hydrochinon Developer Pow- ders (do not stain the fingers), per	
dozen pairs,	.50
Do., per ½ dozen pairs,	.25
*Eastman Pyro Developer Powders, (for dark-room development), per dozen	
pairs,	.50
Do., per ½ dozen pairs,	.25
*Eastman Hydrochinon, Eikonogen, Pyro and Special Developer Powders,	
in sealed glass tubes, per box of 5 tubes,	.25
Glass Stirring Rod Thermometer, -	.60
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Velox Paper, per doz. sheets, 15% x 21/2, -	\$.10
Velox Transparent Water Color Stamps,	
booklet 12 colors, complete,	.25
Velox Transparent Water Color Stamp Outfit consisting of Artist's Mixing	
Palette, three special Camel's Hair	
Brushes, and one book of Velox Trans- parent Water Color Stamps (12 colors),	.75
Eastman Printing Masks No. 1, for use with Vest Pocket Kodak Negatives, each,	óa
	.06
*Nepera Solution (for developing Velox), 4 ounce bottle,	.20
Solio Paper, per pkg. 2 dozen sheets, $1\frac{5}{8} \times 2\frac{12}{2}$,	.20
*Combined Toning and Fixing Solution, for Solio, per 8 ounce bottle, -	.50
Do., 4 ounce bottle (in mailing case, in-	
cluding postage, \$.50),	.30
*Eastman Reducer, per pkg. of 5 tubes,	.25
*Royal Re-Developer, per pkg.of 6 tubes,	.75
*Eastman Flash Sheets, No. 1, per pkg.	
½ dozen,	.25
Do., No. 2, per pkg. ½ doz.,	.40
Do., No. 3, per pkg. ½ doz.,	.60
Kodak Flash Sheet Holder,	1.00
Kodak Dry Mounting Tissue, 4 x 5, 2 doz.	
sheets,	.08
Eastman Photo Blotter Book, for blot-	
ting and drying prints,	.25
Eastman Film Developing Clips, (nick-	
eled), 3½ inch, per pair,	.25
Kodak Film Clips, (wooden), 5 inch, per	·
pair,	.15
Kodak Junior Film Clips, each,	.10
Kodak Print Roller, Double, 6 inch, -	.50
Flexo Print Roller, Single, 4 inch,	,15

Kodak Dark Room Lamp, No. 2, % inch wick,	\$1.00
Eastman Film Negative Albums, to hold 100 15% x 2½ negatives.	.75
Kodak Trimming Board No. 1, capacity 5x5 inches.	
Bevplane Mounts, for prints 1% x 2½, per 100.	.40
Do., per 50.	.60
The Arena Album, 50 Black or Sepia	.30
leaves, size 5½ x 7,	1.00
Developing, Printing and Mounting, on Velox, 1%x2½, per roll of 8 expos-	1.00
ures,	.65
Do., unmounted, per roll of 8,	.60
Developing only, per roll of 8 exposures,	.30
Printing and Mounting only, on Velox,	
each,	.06
Do., unmounted,	$.05\frac{1}{2}$
No orders executed for less than 25 cents.	
All prints furnished unmounted un- less otherwise specified.	
3¼ x 5½ Bromide Enlargements, made from negatives 1½ x 2½, unmounted,	
each,	.15
Do., mounted,	.16
8 x 10 Bromide Enlargements, mounted	
on card,	.75

On enlargement orders, if, in our opinion, the print will be improved by double mounting, we will do so at an additional charge of ten cents, or triple mounted at fifteen cents.

*Prices subject to change without notice.

EASTMAN KODAK COMPANY. Rochester, N.Y. (74)

Prints do not Curl when Mounted with

Kodak **Dry Mounting** Tissue



Just the Tissue and a Flatiron.

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APPLICATION FOR MEMBERSHIP IN THE KODAK CORRESPONDENCE COLLEGE Eastman Koitak Co., Rochester, N. Y. K. C. C. Dept.	Gentlemen: I am o	and wish to be enrolled as a member of "The Kodak Correspondence College." I therefor enclose herewith $\begin{cases} D'off \\ D'off \\ D'off \\ Express Money Order \\ Express Money Order \\ P.O. Money Order \\ Prove of Marke Good Pictures," and a certificate ofmembership entiting me to a full course in the "Kodak Correspondence College,"(Name)$

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