

This manual is for reference and historical purposes, all rights reserved.

**This page is copyright© by M. Butkus, NJ.**

This page may not be sold or distributed without the expressed permission of the producer

I have no connection with any camera company

On-line camera manual library

This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

**If you find this manual useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy.**

**This will allow me to continue to buy new manuals and pay their shipping costs.**

**It'll make you feel better, won't it?**

**If you use Pay Pal or wish to use your credit card,  
click on the secure site on my main page.**

# TANK Development

---

---

**THE FINAL CONVENIENCE**

*The Experience is in  
the Tank.*

**Kodak Film Tank  
Brownie Developing Box  
Eastman Plate Tank  
Promo Film Pack Tank**

# **TANK DEVELOPMENT**

**The Modern Way**

**EASTMAN KODAK CO.**

**Rochester, N. Y.**

*The Kodak City.*

# A SUCCESS

---

## **Time and Temperature— The Foundation.**

The time and temperature method of development—developing for a definite time, with a given strength of developer, and at a given temperature—the foundation of the tank system of development, has long since passed the experimental stage. Tank development is no longer a mere theory—it is a success.

## **Better Results.**

There is every reason for the adoption of this simple method for the development of film or plates. First and foremost, it affords better results than the old tentative dark-room method, even in the hands of the expert.

## **Prevention and Protection.**

The tank prevents accidents, such as light fog or scratches; it protects the novice from his inexperience—the experience is in the tank.

## **Latitude of Exposures.**

Tank development takes care of all differences of exposure within reasonable bounds. Indeed, it has now been fully demonstrated that normal development, such as the tank

gives, produces better printing negatives than does the old method of endeavoring to force under-exposures and restrain over-exposures. Snap shots and time exposures go into the tank at the same time and come out together, developed to their full values. No individual treatment is necessary.

## **Convenience and Comfort.**

Tank development offers both convenience and comfort. With cartridge film it is daylight all the way, and with plates and Premo Film Pack the dark-room is necessary only while loading the tank, and for washing before fixing—operations requiring but a few moments.

## **Economy.**

Tank development is the most economical method of development—time saving, as you may develop a dozen plates, or a full roll of film, at one time; film and plate saving, as it insures the highest percentage of good printing negatives; space saving, as any one of the tanks for either film or plates will occupy but a corner of an ordinary suit case.

## **Adopted By Professional Photographers**

The fact that many of the most noted professional photographers in the country have adopted the Eastman Plate Tank for their developing is one of the best evidences of the superiority of the tank system. To these men the convenience of tank development is a secondary consideration. What their business depends upon is results, and they find by actual experience that tank development produces a better quality of results than does the old method.



## THE KODAK FILM TANK.

**All by Daylight.**

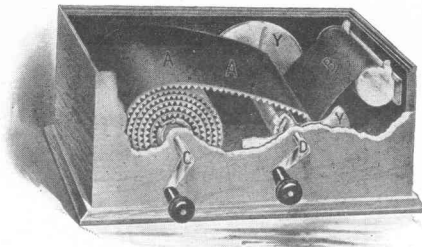
With the Kodak Film Tank every step may be performed in full daylight, and the

entire operation is so simple as to be readily understood by the merest novice.

The film, after exposure, is protected from light by being first wound up with a light proof apron, after which it is removed from the winding box and placed in a cup of developer, where it remains until development is complete.

As shown in the accompanying cut, apron, black paper, and film are wound on axle D, and, when so wound, are removed from the box and placed in the Solution Cup in the light of an ordinary room. Development is allowed to go on for twenty minutes and the film requires no attention during that time beyond turning the cup containing the film end for end two or three times during development, a tightly-fitting cover for the cup being provided for this purpose. (In case of the Brownie Film Tank, the

film roll itself is turned, no cover for the cup being necessary). When development is completed the film is removed for fixing.



*Box for winding protecting apron and film together.*

**Develop a number of rolls at once.**

With the Kodak Film Tank, the amateur can develop a number of rolls of film at once by merely providing

himself with extra tanks, aprons, and reels, which will be found listed (Duplicating Outfits) in the price list.

**Outfit Self Contained.**

The Winding Boxes themselves are strongly made with metal parts nickeled.

The Tank is of brass, heavily nickeled. Both handles of the box are removable, and, together with the tank and apron, can be packed inside of the box, thus making the entire outfit self-contained.

## THE PRICE.

Brownie Kodak Film Tank. For use with No. 1, No. 2, and No. 2 Folding Pocket Brownie Cartridges, complete.	\$2.50
3½ inch Kodak Film Tank. For use with all Kodak or Brownie Cartridges having a film width of 3½ inches, or less, complete.	5.00
5-inch Kodak Film Tank. For use with all Kodak and Brownie Cartridges having a film width of 5 inches or less, complete.	6.00
7-inch Kodak Film Tank. For use with No. 5 Cartridge Kodak, or shorter film cartridges, complete.	7.50

## Duplicating Outfits.

Consisting of one Solution Cup, one Transferring Reel, and one Apron.

Duplicating Outfit for Brownie Kodak Film Tank,	\$1.25
Duplicating Outfit for 3½ inch Kodak Film Tank,	2.50
Duplicating Outfit for 5-inch Kodak Film Tank,	3.00
Duplicating Outfit for 7-inch Kodak Film Tank,	3.75

## Kodak Film Tank Supplies.

All the amateur needs in the line of supplies for the Kodak Film Tanks are Developing Powders, and Kodak Acid Hypo for fixing. The developer powders listed below are accurately prepared and contain only carefully tested chemicals of the best quality.

## THE PRICE.

Kodak Tank Developer Powders, Brownie, per package of ½ dozen,	\$.15
Ditto, for 3½-inch Tank, per package ½ dozen,	.20
Ditto, for 5-inch Tank, per package ½ dozen,	.25
Ditto, for 7-inch Tank, per package ½ dozen,	.25
Kodak Acid Fixing Powder, per ¼ pound package,	.10
Ditto, per ½-pound package,	.15
Ditto, per 1-pound package,	.25



## THE No. 2 BROWNIE DEVELOPING BOX.

May be successfully operated by any Boy or Girl.

The No. 2 Brownie Developing Box is a modified form of the Kodak Film Tank, so simple as to be successfully operated by any boy or girl.

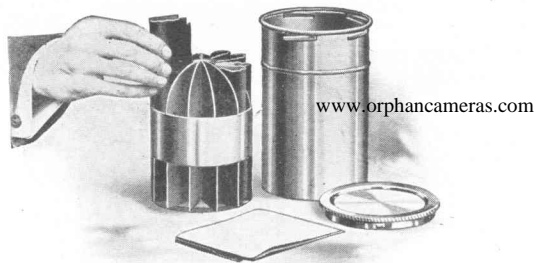
The No. 2 Brownie Developing Box is a metal box fifteen inches in length, just long enough to accommodate a roll of No. 1 or No. 2 Brownie film.

To develop, the roll of film is inserted in the spool carrier, and by means of a cord and winding shaft, unrolled and carried around a roller bearing, thus exposing it to the action of the developer.

Before unrolling the film the developer is poured in the box and the cover put in place. The film is unrolled by turning the crank. Then the box is rocked on its standard for six minutes. The developer is poured off and box filled with water to wash out developer, after which film is removed and fixed in daylight.

## THE PRICE.

No. 2 Brownie Developing Box,	- -	\$1.00
Brownie Developing Box Powders, per package of 6,	- -	.15
Kodak Acid Fixing Powders, ½ pound package,	- -	.15
Ditto, ¼ pound package,	- -	.10



## THE PREMO FILM PACK TANK.

### Tank Development for Premo Film Pack Users.

The Premo Film Pack Tank is the latest application of the Kodak Tank principle, placing at the service of Premo Film Pack users, that convenience and assurance of best possible results which the tank system of development guarantees.

This tank, which is supplied by the Rochester Optical Division, is composed of but two parts—the tank proper and a metal receiver or cage, for the films.

The cage is strongly constructed of brass and is divided into twelve compartments, (in the 5 x 7 size, six) each accommodating one film. As the film is taken from the pack, it is held between the thumb and fingers, slightly bent from top to bottom, and slipped into its respective compartment. When all the compartments are filled, the cage is placed in tank, which has been previously filled with developer, the top replaced and the films left to develop for twenty minutes. No further attention is necessary, excepting to turn the tank, end for end, several times during the process of development.

At the expiration of the full time, open the tank, take out cage, remove films, place them in a tray of water for a moment, then transfer to the fixing bath. If desired, films may be fixed in the same tank in which they were developed.

### Only a Few Moments in a Dark-Room.

The operation of removing films from the pack and loading the cage is done, of course, in the dark-room, but the time taken for this purpose will not exceed two or three minutes.

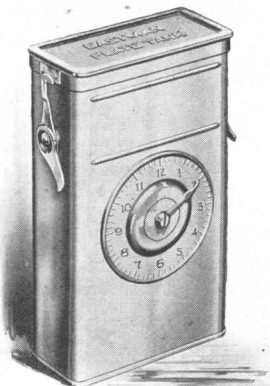
The Premo Film Pack permits the removal of one or more films for development at any time, and, of course, any less number of films than the tank is designed for, may be developed therein.

An important point here, is the fact that, in the 4 x 5 size, the regular Eastman Plate Tank cage can be used in the No. 2 Film Pack Tank. Thus, a person having a 3 1/4 x 4 1/4 or 4 x 5 Premo Plate camera using the Premo Film Pack Adapter, can develop his films in the tank. And by merely getting an Eastman plate cage and loading block, can develop his plates in the same tank.

The cage of the No. 1 Tank is slightly different from that shown in the illustration, but the method of loading is the same, and of course results are just as dependable.

### THE PRICE.

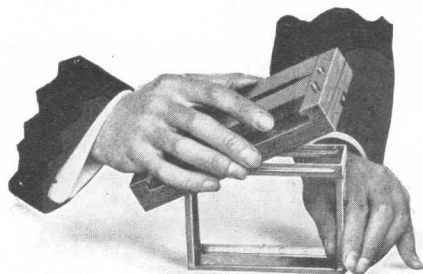
Premo Film Pack Tank No. 1, for 12 2 1/4 x 3 1/4 films,	-	\$1.25
Premo Film Pack Tank No. 2, for 12 3 1/4 x 4 1/4, 3 1/4 x 5 1/2	-	
or 4 x 5 films,	-	3.50
No. 3. For 6 5 x 7 films,	-	4.00
Eastman Plate Cage and Loading Block, 4 x 5,	-	1.75
(May be used in No. 2 Film Pack Tank.)		
Powders, No. 1, per package of 6,	-	.20
Premo Tank Powders in packages of 6, per package,		
No. 2,	-	.25
In packages of 6, per package, No. 3,	-	.35
Kodak Acid Fixing Powders, per 1 pound package,	-	.25



## THE EASTMAN PLATE TANK.

**Another Success.** The Eastman Plate Tank is the same in theory as the highly successful Kodak Film Tank, with, of course, such modifications as are rendered necessary by the physical difference between plates and film. That equally successful results are produced goes without saying.

The Eastman Plate Tank consists of a metal solution cup, with tightly-fitting cover, a cage for holding twelve plates, or less, during development and fixing, and a simple block for loading the plates into the cage in the dark room. The exposed plates are loaded into cage and placed in the tank in the dark room, and the tank cover fastened in place.



As soon as the plates have been lowered into the developer, the time is noted by watch or clock, and the hand on dial on front of tank set to indicate time when development will be complete. Development is allowed to continue for fifteen minutes, the tank being reversed several times. After development the developer is washed out of the plates, and the fixing bath poured into the tank. Fixing may be carried on in daylight.

### THE PRICE

Eastman Plate Tank, 4 x 5, including Solution Cup, Plate Cage (will take 3¼ x 5½ plates) and Loading Block, - - -	\$3.50
Ditto, 5 x 7, - - -	4.50
Kit for 4 x 5 and 3¼ x 4¼ plates, - - -	.50
Kit for 5 x 7, to take 4¼ x 6½, and 4¾ x 6½ plates, - - -	.75
Metal Insert for 5 x 7 to take 4 x 5 plates -	.20
Eastman Plate Tank Developer Powders for 4 x 5 tank, per package, ½ dozen, -	.20
Ditto, for 5 x 7 tank, per package, ½ dozen, -	.35
Kodak Acid Fixing Powder, per 1 pound package, - - - - -	.25



**Load Your Kodak With  
Kodak Film**

**N** **NON CURLING** **C**  
N. C. on the Box  
"KODAK" on the  
Spool End

**THAT'S YOUR PROTECTION**