# INSTRUCTIONS FOR USING

## **NIKOR** FILM PACK and CUT FILM TANKS

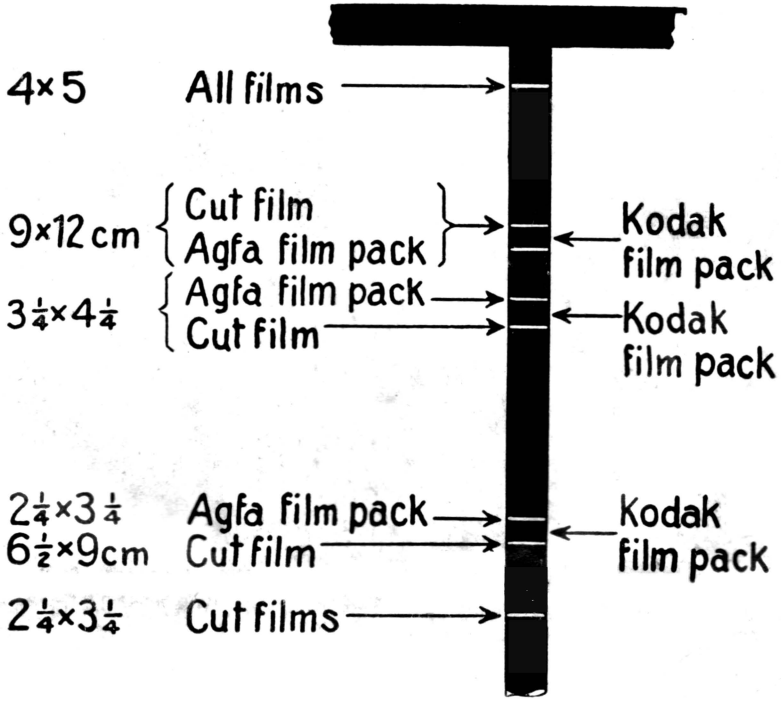


Figure 1

### Set UPPER Edge of Plate at Mark

### Adjustment for Film Size

1. Consult figure 1 and select the proper setting marks. These marks will be found on the four rods that the locking screws act on.

2. Loosen the four screws on the top plate and set the UPPER EDGE of this plate at the proper marks, tightening the screws first lightly, then firmly with the fingers.

3. It is recommended that the adjustment be checked with a film. There should be a clearance between the upper plate and the top edge of the film of about 1/32 to 1/16 of an inch (about the thickness of a ten cent piece). This is to allow for the expansion of the film when wet.

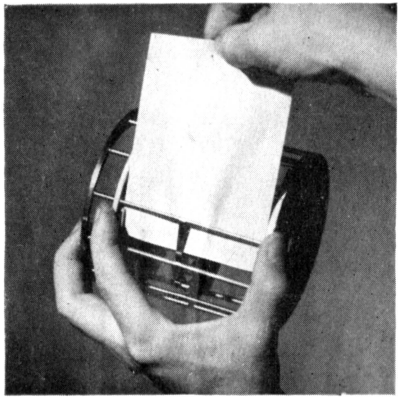

Figure 2

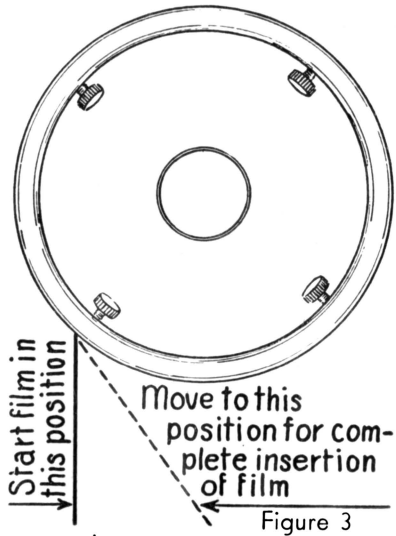


Figure 3

**Loading the Film Cage**

1. Remove the films from the holders or packs.
2. Remove the paper from the backs of the films.
3. Insert the films in the cage as shown in figures 2 and 3.

Figure 4

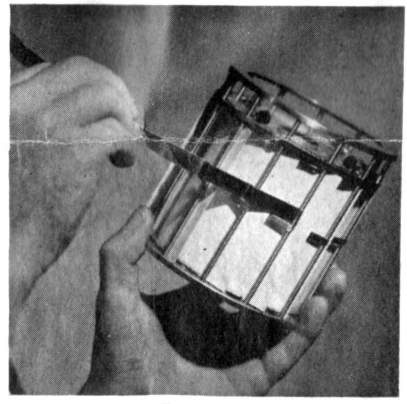

Figure 5

4. Place the retaining band around the cage as shown in figures 4, 5, and 6. It should go from **right to left** as shown, the steps crossing the ends of the spider. For films less than 3¼ x 4¼ it should be placed below the spider.

5. Place the cage right side up in the tank, and put the cover on firmly. Bright lights may now be turned on.

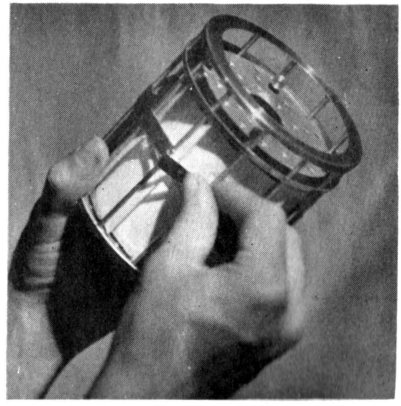

Figure 6

## TO DEVELOP

1. With the cap under one side of the tank to tilt it, pour the developer into the large segment of the filler mouth. Or if preferred, the developer may be put in the tank beforehand and the loaded cage placed in it.

2. Put the cap over the filler mouth, pick up the tank and shake it gently, repeating at regular intervals during development. Agitation is most important when solutions, both developer and fixer, are first put in the tank.

3. Keep the developer, hardener, fixer and wash water as near the same temperature as possible.

4. Pour out the developer, fill tank with rinse water two or three times (or use hardener), and pour in the fixing solution.

5. Pour off the fixing solution, invert the cage in the tank and wash by running a stream of water into the open core of the cage for 15 or 20 minutes.

6. Dry films by holding them in a strong clip, and wiping with a viscose sponge. Allow them to hang in a warm dust-free place.

## DEVELOPMENT PROCEDURE

Every photographer has his own method of development. However, we have the following suggestions that will aid in securing perfect negatives.

1. When using freshly mixed solutions, particularly developer, let them stand fifteen minutes or longer to allow dissolved air to escape.

2. Avoid filling the tank completely full of developer. Use approximately the amount required as shown on the next page.

3. The internal temperature of the tank may be accurately controlled by placing it in a large pan of water, the temperature of which can be easily checked and maintained.

4. Agitate the tank moderately. Excessive agitation is liable to cause uneven development, particularly in the large film sizes. We recommend that the tank be agitated at the start of development and fixing by inverting and gently shaking, repeating every two minutes.

5. After developing, fill and empty the tank several times with fresh water, then pour in the fixer.

6. Be sure to agitate the tank when fixing as gas bubbles often form when the acid fixer strikes the alkaline developer.

7. Let the water run vigorously when washing as a fast flow reduces washing time although this is not true of paper prints.

8. Wipe the surplus water from the films when drying. This can be done by hanging the film with a strong clip and drawing damp viscose sponges slowly down each side of the film.

9. Drying may be done by hanging each film by the corner with a push pin. The use of clips is not recommended as water is apt to collect under them and run down the film when removing them.

10. Stainless steel does not ordinarily rust or tarnish even under severe conditions of photographic use. However, any deposit of dirt acquired during manufacture or use may be readily removed with "Bab-O" or "Bon Ami." An over night soaking in a 25% solution of Nitric Acid will render the tank chemically clean. DO NOT use Hydrochloric or Sulphuric Acid.

11. When through developing, it is best to dry the tank before putting it away. Films are liable to stick the next time it is loaded, if it is still wet. The cage may be dried by artificial heat if it is to be used immediately.

## SOLUTION REQUIRED

| Film Size | 2¼ x 3¼ | 6.5 x 9 cm. | 3¼ x 4¼ | 9 x 12 cm. | 4 x 5 |
|---|---|---|---|---|---|
| Solution | 24 oz. | 24 oz. | 30 oz. | 32 oz. | 36 oz. |

# NOTICE

1. Do not agitate the tank excessively. Invert and shake gently every two minutes, not oftener.

2. Insert the films with the emulsion side in.

3. Be sure there is clearance over the film in the grooves. See paragraph 3, page 1.

4. Read the entire instruction sheet.