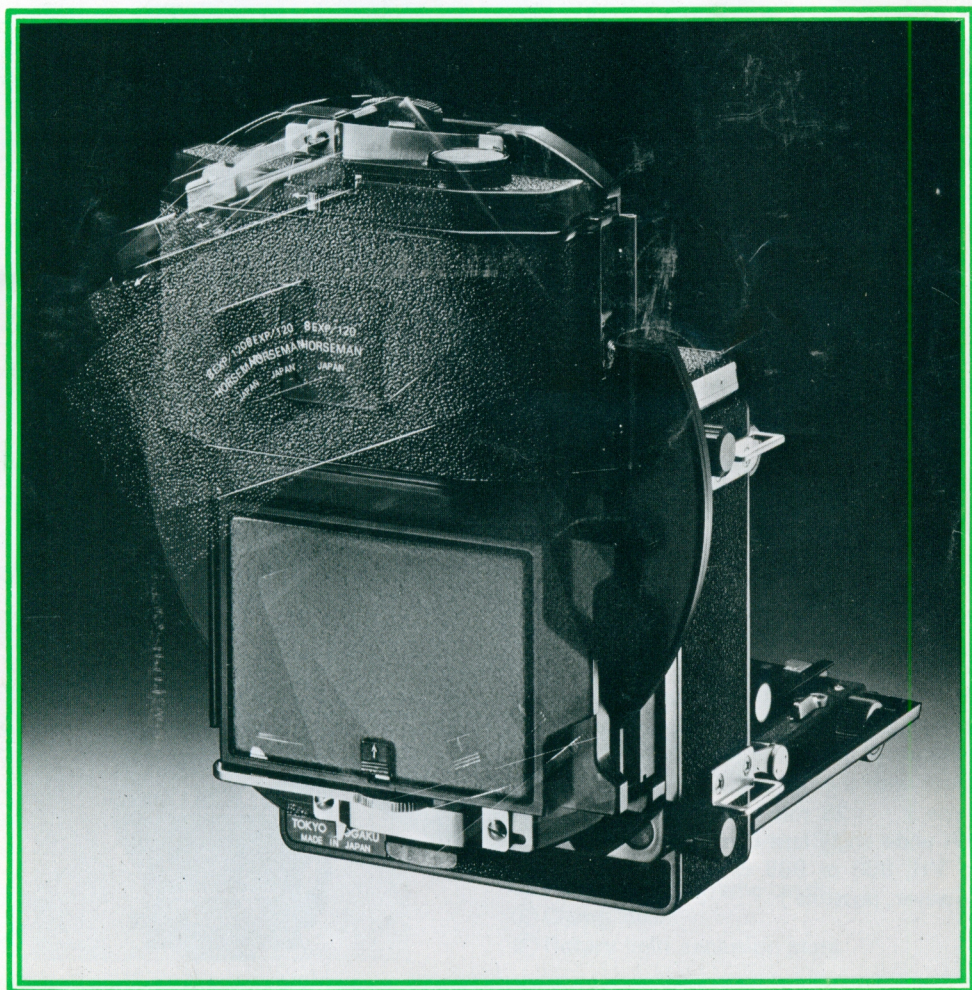


HORSEMAN®  
OWNER MANUAL

**ROTARY BACK®**





# 1 Camera attachment <sup>DS</sup>

Horseman rotary back is a compact, highly efficient unit with easy-to-use features giving fast operation from focusing to rotation movement. Moreover, it is possible to photograph with the plate removed as a light exclusion system has been incorporated.

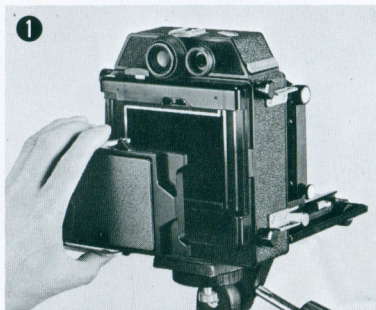
A supporting range of accessory focusing glasses and a variety of film holders which can be attached to the basic unit have been fully integrated into the overall Horseman planning and design.

These rotary back units are produced in two models; Type I for installation on Horseman 980, 985 and VH cameras: Type II for use with 4" x 5" Graflock equipment. Although the installation specifications are slightly different, these two rotary back models are operated using exactly the same method.

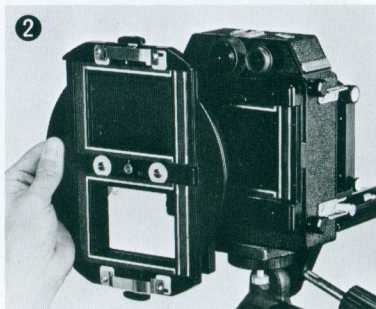
## Attachment to the camera

1. Attachment is performed in the same way as fitting a roll film holder directly onto the rear of the main camera body. Fit carefully on to the camera back and secure with the camera's accessory catch.

● Remove or fold back the rubber eyepiece shield when attaching to 980 or 985 models.



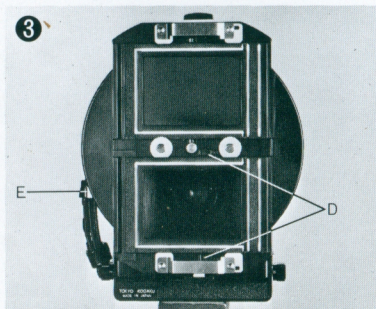
2. The rotary clamp lever (E) is located on the left when both image planes are horizontal; when they are vertical this lever is at the bottom.



3. The position of the film with the rotary back attached is further to the rear than in the original camera specifications. To compensate for this difference, move the lens standard back in accordance with the figures given below.

Type I      25 mm      Type II      37.5 mm

● A wide angle lens cannot be used when attached to VH, 980 or 985 cameras. (Close-up work is, however, possible.)





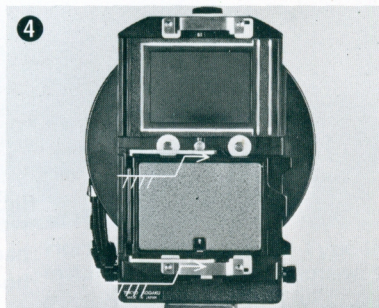
## 2 Attachment of the focusing glass frame

### Attachment of the focusing glass frame

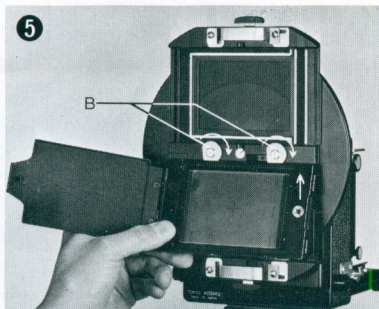
Use the standard focusing glass frame for Horseman 980, 985 and VH cameras. In addition it is possible to employ a Convertible Horseman focusing glass frame. (Order number CH-8422) Type II is provided with this kind of frame.

●Use a special focusing glass frame (order number A5073) for the Horseman 6 x 9 Polaroid back.

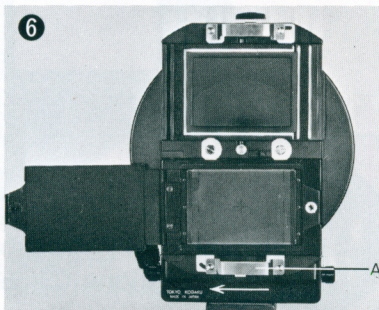
1. 980, 985 and VH focusing glass installation;  
With the back in a horizontal position, press the top and bottom of the frame hinge into (D) and slide towards the right. Remove by pressing the top and bottom of the hinge and then moving to the left.



2. CH-8422 focusing glass installation;  
Turn both pivot locks (B) through a 90° angle and tilting the focussing glass frame at approximately 20°, insert the grooved side firmly into the pivot locks. Finally, secure by moving slide lock (A) Remove by employing the reverse procedure to that of installation.



●The Polaroid focusing back can also be installed and removed by following the method described in 2 above.



Caution: Replace the glass using genuine accessory parts only. Take great care when removing the frame in which a Fresnel lens is fitted.



**Film holder attachment****1. Installation of Horseman roll film holders Types I and II;**

With the carrier in which the film is loaded in the set position, turn the film advance lever either to the top or to the bottom. When fitting to the main unit, make certain that the film advance lever is at the top and that the carrier is set. (If the film advance lever is at the bottom it will not be possible to install the focusing glass frame.)

●The roll film holder can be installed even when the focusing glass frame has been removed.

**2. Installation of Horseman sheet film holder;**

Push in and engage this holder when the focusing glass frame (for 980, 985 and VH) is on the right, that is the horizontal position, and at the same time a little detached from the main body. The accessory catch for the adjoining film holder section may also be used to secure.

**3. Installation of Horseman 6 x 9 Polaroid back;**

Holding at an angle of  $20^\circ$ , push the grooved side into the pivot locks (B) and move the slide lock (A) to secure. When this holder is in the horizontal position the plate is to the left, whereas with the other holders it is located on the right. Be certain to use the special Polaroid focusing glass frame. In comparison to other holders, the film will be a further 10 mm towards the rear when this Polaroid unit is employed.

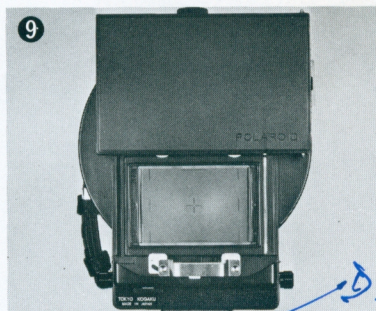
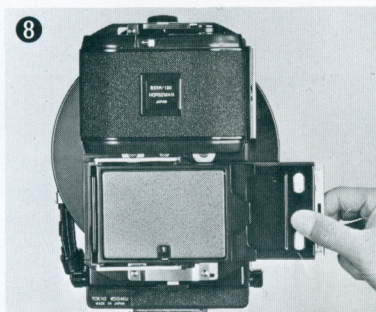
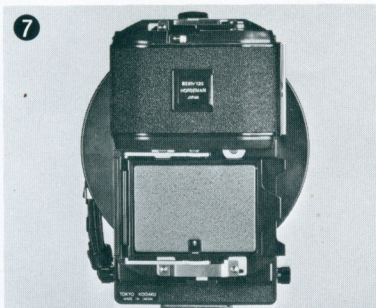
**Operation**

After the focussing glass frame and the film holder have been carefully installed, press the clamp lever (E) and gently turn the unit to position the focusing glass at the rear of the camera (focusing position).

Stop when the unit "clicks" (lock position). Press clamp lever (E) a little and then release. Continued pressure is unnecessary. Next remove the plate completely. As there is a built-in light exclusion unit, there is no danger of any light entering the film holder. Focus, then immediately close the shutter using the focus lever. Then lightly press the clamp lever and turn the film holder. At the same time as this operation the light exclusion plate will shut out all light from the focusing glass.

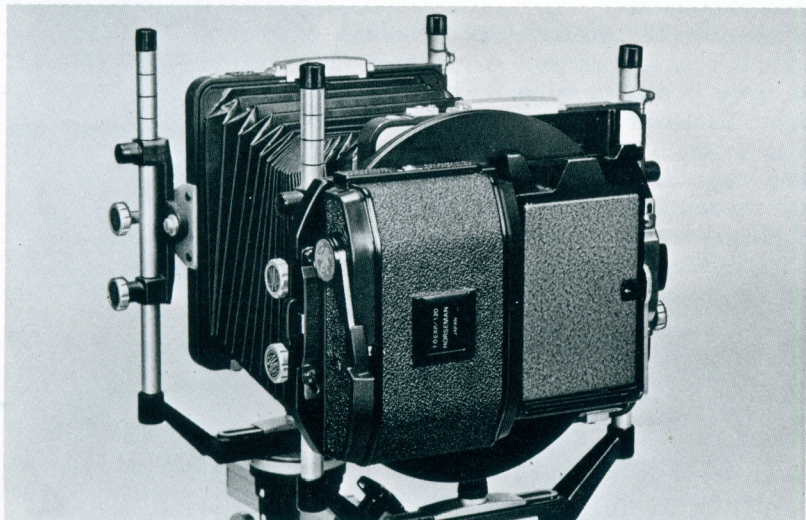
The above methodology is used for photography. When operating the shutter and also removing the film holder pay due attention that the plate is fully inserted.

●As the light exclusion plate is an important part of the unit, take great care not to bend, dent or apply any pressure to it.



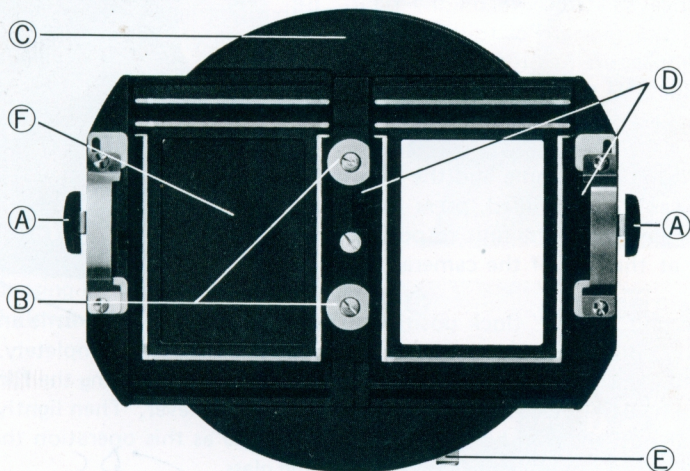


## 4 Horseman Rotary Back Type II



Horseman Rotary Back Type II  
installed on a 4" x 5" camera.

## 5 Parts nomenclature



- (A) Slide lock
- (B) Pivot locks
- (C) Main body

- (D) Focusing glass frame catch
- (E) Clamp lever
- (F) Rotary light exclusion plate



## Performance and specification

1. Model type      Rotating camera back which allows photography by the rotation of the focusing glass and film holder sections. When the film holder is installed, the light exclusion unit is operational rendering the plate unnecessary.
2. Suitable cameras      Type I Horseman 980, 985 and VH type.  
(without focusing glass frame)  
Type II Graflock type 4" x 5" camera  
(with CH-8422 focusing glass frame)
3. Suitable focussing frames
  - Horseman 980 and 985 with standard focusing glass frame (fitted with Fresnel lens, center cross focusing glass and focusing hood)
  - Horseman VH type with standard focusing glass frame (fitted with 10 mm grid focusing glass and a focusing hood)
  - Convertable Horseman focusing glass frame (center cross focusing glass without focusing hood)
  - Horseman focusing glass frame for 6 x 9 Polaroid back (center cross focusing glass without focusing hood)
4. Suitable film holders      Horseman roll film holder Type I 56 mm x 82 mm actual size  
Horseman roll film holder Type II 56 mm x 68 mm actual size  
Horseman sheet film holder (one side) 58 mm x 82 mm actual size  
Horseman 6 x 9 Polaroid back 56 mm x 82 mm actual size  
  - Both old and new roll film holder models can be used with the exception that film advance is restricted to lever types.
5. External dimensions and weight  
(Main body only)      Type I (H) 219 x (W) 187 x (D) 37 mm 650 g  
Type II (H) 219 x (W) 187 x (D) 49 mm 750 g
6. Film alignment change      Type I 25 mm  
Type II 37.5 mm



**KOMAMURA PHOTOGRAPHIC CO., LTD.**

2-12-11, Kyobashi, Chuo-ku, Tokyo, Japan

Telephone 03(561)8591 Telex 02524705 Fax 03(564)3409