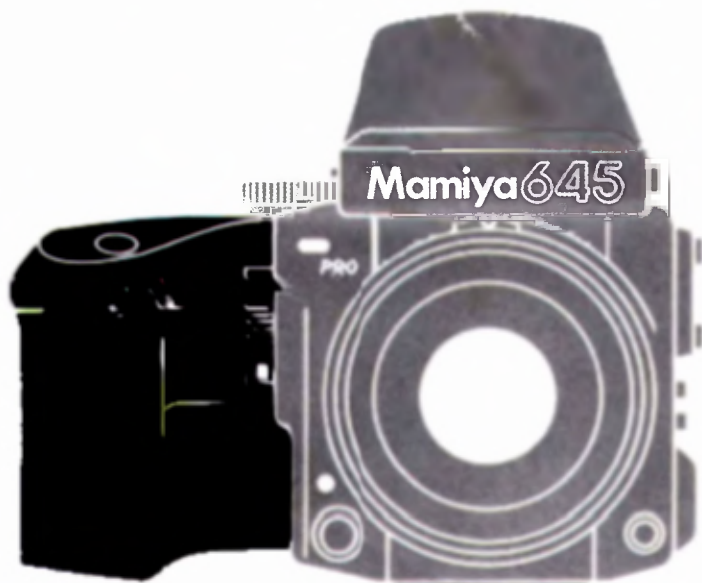


Mamiya 645

Power Grip WG402



Instructions

Specifications

Power source	: Lithium Battery, 2CR5. 6V
Film transport Ratio	: Approx. one frame per 0.8 sec (except at slower shutter speeds than 1/60 sec.)
Operation	: Simply by pressing the Shutter Release Button, the Power Grip will be in the operation mode. When the last frame is exposed, it will automatically advance the remaining film onto the take-up spool and then stop. When the 135 Film Holder is in use, rewind the film with the film rewind knob by pressing the film rewind button after the last frame is exposed.
Photographing mode	: Single frame photography (Continuous sequence photography is possible by pressing the Shutter Release Button of the camera body.)
Multiple exposures	: By the Multiple Exposure Lever of the camera body (The Power Grip WG402 does not provide a switch lever for multiple exposure.)
Maximum transport Ratio	: Approx. 130 rolls of 120 film with Lithium Battery. (According to Mamiya's Laboratory test made at normal room temperature)
Size	: 56mm (W) x 83mm (H) x 69mm (L)
Weight	: 190g (without battery)

Features

The Power Drive Grip WG402 is designed exclusively for the 645 PRO camera. Providing compact size, light weight, simplicity and comfortable grip, it advances the film at approximately one frame every 0.8 seconds (except at slow shutter speeds).

HANDLING CAUTIONS

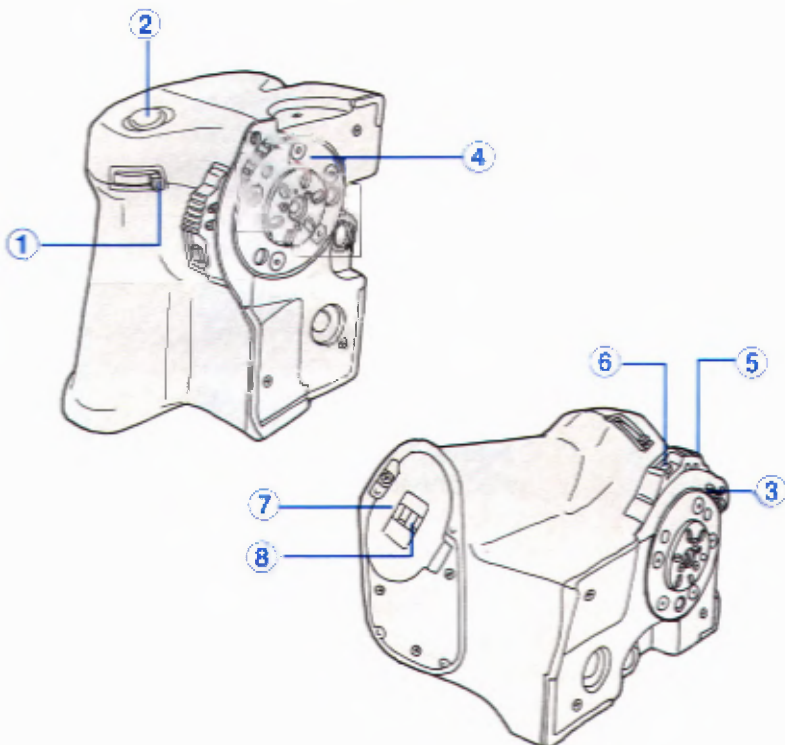
1. The Power Drive Grip WG402 is exclusively designed for 645 PRO camera and it cannot be fitted with M645 Super Camera.
2. When the Power Drive Grip WG402 has not been used for a long time, check the battery condition first by making some test exposures.
3. Be sure that the Power Drive Grip is firmly locked to the camera body.
4. It is desirable to replace the battery with a fresh one as soon as you feel that the film advance speed is sluggish.
5. Even when using the Power Drive Grip, it is recommended to also attach the neck strap to the camera as a safety measure and for portability.

Battery Care

1. Carefully wipe the contacts of the battery before inserting it into chamber.
2. When not using the Power Drive Grip for a long period of time, remove the battery and store it in dry, cool place.
3. When going on trips be sure to carry spare batteries.

Names of Parts

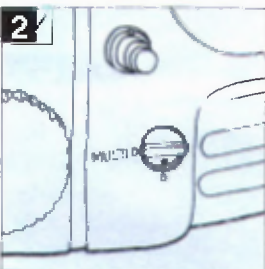
- | | |
|---|-------------------------------|
| ① Lock Lever for Shutter Release Button | ⑤ Lock Lever |
| ② Shutter Release Button | ⑥ Lock Release Button |
| ③ Electrical Contacts | ⑦ Battery Chamber Cover |
| ④ Attaching Part | ⑧ Battery Chamber Cover Latch |



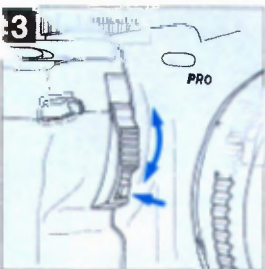
Attaching and Detaching the Power Drive Grip WG402



1. To attach, first remove the Film Advance Crank AC401 from the camera body, and proceed as follows. (Fig 1)



2. Align the white index dot on the camera's Multi Exposure Lever against the white square index mark. (Fig 2)



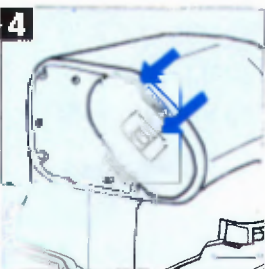
3. Then, while pressing on the blue Lock Release Button on the grip, push up on the Lock Lever in the direction of the arrow. (Fig 3)

4. Firmly insert the mounting guide holes on the grip into the four guide pins on the camera body. (The Neck Strap Lug also serves as a guide pin for securing the grip.)

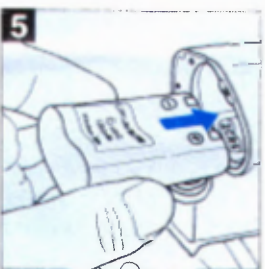
5. After making sure that the grip has been properly aligned, push the lock lever downward until you hear a click.

* The Power Drive Grip WG402 is locked when the Lock Lever is down, while it is unlocked when it is up.

Inserting Battery



1. With your fingernail, pull the Battery Chamber Cover Latch on the bottom of the grip as indicated by the arrow in the illustration. (Fig 4)



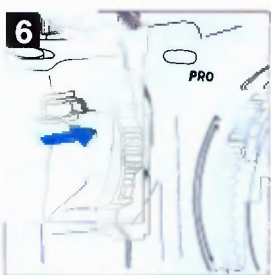
2. Lift the cover off and insert a 2CR-5, 6 Volt Lithium Battery into the battery chamber by taking care to match the \pm poles of the battery with those shown in the diagram in the chamber.

Then close the battery chamber cover firmly with a click. (Fig 5)

* When the film advance speed sounds sluggish, it is time to change the battery.

Operation

A When the Start Mark on the roll film is aligned with the Start Mark (\triangle) on the spool clip.



1. Push the Release Lock Lever in the direction of the arrow until it stops. (Fig 6)

2. Pull out the Dark Slide and the camera is then ready for exposures.

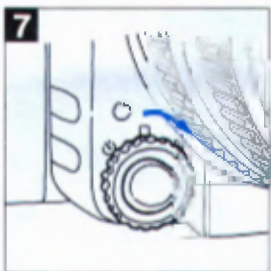
3. A single press on the grips Shutter Release Button will automatically advance one frame.

4. When the final frame has been exposed, the Power Grip automatically winds the film onto the take-up spool so that the exposed film can be taken out.

5. For continuous exposure:

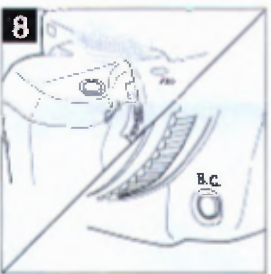
1) Align the white index dot on the camera's Shutter Release Selector collar with the white square dot in the center. (Fig 7)

2) Simply keep pressing down the Shutter Release Button on the camera body, or you may also use the Electromagnetic Cable Release.



* When the camera is used with the Power Grip, set the selection collar to the red dot except the continuous exposure operation to prevent an accidental shutter release by touching the Shutter Release Button of the camera body.

B When a loaded roll film holder is attached to the camera in mid-roll and the film is not advanced to next frame, the shutter cannot be released.



1. First insert the Dark Slide into the roll film holder.

2. To ready the next frame, slightly depress the shutter release button on the Power Grip or the Battery Check Button on the camera body. The "Auto Winding Mode" built into the camera body is actuated. (Fig 8)

* Use the "Auto Winding Mode" feature when taking a photograph after changing the lens or replacing the holder.

3. Withdraw the Dark Slide and the camera is then ready for use.

C When using the Leaf Shutter Lenses

(A80mm f/2.8 N/L, A55mm f/2.8 N/L, A150mm f/3.8 N/L)

Cock the leaf shutter in the lenses manually by turning shutter cocking ring on the lens.

* See Leaf Shutter Lens instructions for detailed operation information.

Multiple Exposures



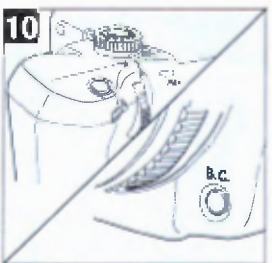
1. Remove the Power Grip from the camera body by pushing up the Lock Lever while depressing the Lock Release Button.

2. Align the white dot of the Multiple Exposure Lever with the yellow "Multi" square. (Fig 9)

3. After attaching the Power Grip to the camera body, push down the Lock Lever of the grip firmly. The multiple exposure mode is now operable. (Fig 10)

* To override the multiple exposure mode or to return to normal operation, be sure to return the lever's white dot against the white square.

* It is recommendable to use the Film Advance Crank for the multiple exposure.



Attach the Film Advance Crank instead of the Power Grip WG402 by referring page 13 of 645 PRO Instruction Book because the Film Advance Crank is more convenient for the multiple exposure.