Hasselblad 202FA

— speed and precision

Thank you for choosing a Hasselblad 202FA. The combination of precise metering, auto-exposure and flash metering creates a sophisticated camera that remains easy and comfortable to operate, particularly useful in rapidly changing light conditions and for fast-moving subjects, producing superb professional image quality. With the 202FA you have a choice of either aperture priority automatic or true manual function. In the automatic mode you can manually adjust the camera-controlled exposure within the range -2 to +2 EV. The extremely accurate focal plane shutter provides one of the widest ranges of shutter speeds in the medium format field: 3/4 minutes to ultra fast 1/1000s with 1/2 stop increments in manual mode or 1/10's to 1/3000's with 1/3 stop increments in automatic mode with FE lenses; it also provides the fastest flash synchron speed among medium format focal plane shutters (1/200).

Primarily designed to take advantage of this remarkable shutter are the Hasselblad FE series lenses, ranging from the medium wide-angle 50 mm F2.8 to the short telephoto 150 mm F5.6. And using the Hasselblad Converter 2K(E) doubles the range of focal lengths at a stroke!

These outstanding lenses produced Carl Zeiss are supported by the brightest possible view finder image, provided by the Auto-Matte D focusing screen, completed with the illuminated LCD display with all relevant exposure and set up data.

Congratulations on a fine choice!

Contents

1 Automatic aperture (AE) lock
2 Adjustment buttons
3 Left hand grip
4 12 OPERATING DETAILS
5 Activating camera &viewfinder system
6 Focusing, exposure return and viewfinder display
7 Viewfinder display & symbols
8 Double exposure
9 Meter and mechanisms pre-release
10 Safetines
11 Cusomized grip
12 Exposure control button
13 Cable release
14 Lens catch
14 Focal plane shutter
15 Quick cocking plate
16 Mode selector
17 Automatic exposure lock (AE) lock
18 Adjustment buttons
19 Flashconnectors
20 Shoe contact
21 Dedicated flash connector
22 Display Illumination
23 Mode selector dial

8 GETTING STARTED
8 Battery
8 Winding the camera
8 Dust-protector cover
9 Attaching the lens
9 Removing the lens
9 Rear cover MultiControl
9 Attaching the magazine
9 Removing the magazine
10 Magazine status indicator
10 Opening the focusing hood
11 The built-in magnifier
11 Closing the focusing hood
12 Winding crank
12 Removing the winding crank
12 Attaching the winding crank
12 Trip, attaching and removing
13 MAIN FEATURES
14 Focusing screen
15 Exposure meter
16 Viewfinder display
17 Central panel
18 Flash connectors
19 FC-seat
20 Dedicated flash connector
21 Display Illumination
22 Mode selector dial

4 Parts & Components

1 Focusing hood
1 Display covers
2 Focusing screen Auto-scale 3°
3 Focusing screen catch
4 Liquid crystal display (LCD)
5 Display illumination window
7 Viewfinder magnifier
8 Shutter release button
9 Aperture scale
10 Depth of field scale
11 Tripod socket (not on FE)
12 Focusing ring
13 Less front bayonet, exterior
14 Less front bayonet, interior
15 Depth of field preview knob
16 System crank
17 Lens mount
18 Lens hood
19 Data bus connection bracket
20 Lens catch
21 Self-timer Indicat
22 Battery compartment
23 Adjustment button
24 Cusomized grip
25 Battery-vattery
26 Battery
27 Mode selector dial
28 FC socket
29 Automatic exposure lock, AE-lock

5 18 Depth-of-field scale
18 Depth-of-field preview
18 infra-red (IR) photography
18 Exposure value (EV)
18 Other Hasselblad lenses
19 MAGAZINE OPERATION
19 Loading the magazine
20 Shoulder strap
21 Shoulder strap
21 Setting the film speed
22 Setting the selftimer delay
23 Adjusting the automatic flash-metering
23 D - differential mode
24 How to use the "B" mode
25 A - Automatic mode
25 M - Manual mode
25 N - Manual, locked
26 Warning functions
26 FLASH PHOTOGRAPHY
26 Dedicated flash units
27 Using a dedicated flash unit

8 36 Depth-of-field scale
36 Depth-of-field preview
36 infra-red (IR) photography
36 Exposure value (EV)
36 Other Hasselblad lenses
37 THE 202FA WITH F- AND C-LENSES
37 F lenses
37 Flash photography with F lenses
37 How to use a dedicated flash unit
37 Non-dedicated flash units
37 How to use a non-dedicated flash unit
38 THE 202FA WITH W- AND TF LENSES
38 W lenses
38 Flash photography with W lenses
38 How to use a dedicated flash unit
38 Non-dedicated flash units
38 C lenses
38 Depth-of-field preview knob
38 Setting the flash
38 C lens in mode and flash photography
38 How to use a dedicated flash unit
39 ACCESSORIES
39 Auxiliary mounts
39 MAJOR FE ACCESSORIES
39 Finder
39 Viewfinder
39 Extension tubes
39 External battery cassette
39 GENERAL ACCESSORIES
39 Tripod
39 Technical specifications
39 Camera Care, Service and Guarantee

202FA CAMERA HEAD BODY supplied with the following equipment:

Winding crank E: 44896
Focusing screen Auto-scale 3°: 42310
Standard range: 59110
E-protective cover: 51436
Remote control MultiCam: 51070

202FA CAMERA HEAD BLACK supplied with 10544 50 mm f/2.8 lens, equipped with black Flashing Hood E 62350

202FA STANDARD KIT CAMERA

Complete camera including 202FA, camera body, charger and Storage cases PS 2.8180 and Film magazine 132 - 400, Standard range.

202FA STANDARD KIT BLACK

Complete camera including 202FA camera body, black body and Storage cases PS 2.8180 and Film magazine 132 - 400, Standard range.
Getting Started

This section outlines the basic functions and operations of the Hasselblad 503FA. More detailed information can be found in later sections.

Battery

The battery compartment and cassette is located in the lower left corner of the camera body. Pull out the battery compartment and close the battery cover. The battery cover is the only back part of the compartment.

Winding the camera

After inserting the battery, wind the camera by rotating the winding crank on the right side clockwise. One complete turn fills 8 frames. If it will not turn further, it is already wound.

Front cover protective cover

Is the cover (bayonet fittings) in the direction of the arrow in the illustration and lift off. Do not remove until you are ready to attach a lens.

Attaching the lens

- Remove the镜头 (lens protective cover by inserting it커스터 다음 닉 and lifting off the lens.
- Check that both the lenses are screwed on. The figure shows the correct position against the index mark for the camera body.
- Insert the lens and turn it clockwise until you feel resistance. If the lens is not wound you can insert a click or a smaller object in the hole and turn the shaft in the direction of the arrow approximately 1/2 turn fully. You may find that holding the camera body in your left hand and turning it 90 degrees in the illustration towards the right is the easiest way to attach the lens. If you have aligned the index on the lens with the one on the camera body as shown in the illustration, the lens will click into the bayonet. You can then rotate it clockwise until it stops with a slight click as the lens locks into place.

Removing the lens

- Depress the lens release button, then turn the lens counterclockwise and lift it off the bayonet.
- Always keep the Rear cover/multi control or a mirror in place to protect the camera.

Ataching the camera

- Ensure that the mirror is fully retracted with long thumb for the front of the camera and that the magazine indicator is white. If the indicator is red, then it is "Magazine status indicator. It is also advisable to have the magazine carrier and the magazine supports with the magazine properly engaged.

Strap

The 503FA is delivered with a medium white shoulder strap. Please keep other types of straps in a Hasselblad Product Catalog. All straps are provided with special clips for easy attaching and removing.

Strap attachment

Placing the main body of the strap clip litz behind the strap, push up to the clip and slide the pin backwards. Press the tip of the clip towards the camera while pulling the strap side to side over the lug for locking position.

Main features

This section is a brief overview of the main features. Each feature is described in detail later on in the manual. See relevant headings for more information.

Focusing screen

The 503FA features a focusing screen with 3D focusing, 60% of the area is illuminated and a small window covers 40% of the area.

Exposure meter

The exposure meter is a center-weighted meter that is controlled by the lens and is crossed by 23 bars and covers approximately 30% of the field of view.

The viewfinder display

- The viewfinder display shows the information concerning the camera and the object is located above the upper edge of the viewfinder image. The viewfinder will be a familiar description of the display and symbols display.

Focusing, exposure release and viewfinder display

To focus the viewfinder, use the focusing screen and adjust the focusing button to the proper focus. If the viewfinder screen is set at the Front A position the display shows a horizontal line, whereas if a horizontal bar is set in the following section the horizontal line is calculated as a result of the horizontal aperture and film centering. The viewfinder screen of the light meter in the display shows the wedge meter and the selected aperture, and for the horizontal line is set at the center of the focus ring. If the exposure button is released again, the display shows the selected shutter speed and the distance in FE between two defined and the manual values set. You may now press the exposure button all the way to the exposure. After releasing the button, rotate the meter clockwise and turn it clockwise by 90 degrees or until a scale appears on the meter. You can then read the exposure of your shutter with the help of a scale.

Viewfinder display and symbols

- Fig. 4 depicts the viewfinder display as seen without a printer viewfinder. When a printer viewfinder is used, the symbol is reduced in size. The printer viewfinder has no effect on the information given in the figures.

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Opening the focusing hood

Lift the left side of a flap on the right side edge and turn the focusing hood. The hood falls automatically and locks in place.

The built-in magnifier

The magnifier flips up into the viewing positions when the button is pressed. In this position, the viewfinder display is similar to the "Changing the magnifier."

Closing the focusing hood

Close the focusing hood by pressing it back down to the focusing hood in place. The viewfinder display is similar to the "Changing the magnifier."

The mode selector dial

Using the mode selector dial you can select any of the following operating modes: A, M, A, M, or T. The 503FA supports shutter speeds from 1/2000 to 30 seconds. A, M, and T are all programmed for and Pr for the Pr 503MA shutter system.

The automatic exposure (AE) lock

In the centre of the mode selector dial there is a AE-lock button marked with a red circle. The AE lock and the shutter release, according to the shutter release button, when you press it. You can use it to start the electric operative system in the camera.

The adjustment buttons

These keys that have multiple functions depending on the setting of the mode selector dial.

The functions of the mode selector dial, the AE-lock and the adjustment buttons are described in detail in later sections.

Left hand grip

You may find that adding the 503FA to your left hand with your index finger on the release button, as shown in the upper illustration below, is the most comfortable grip. You can adjust the left hand grip by moving your left thumb (see illustration) and your right hand is then free for focusing, aperture setting, opening the crank or closing the mirror.

Film speed

Indicates film speed set on the magazine (or TCC) dial. 000 or 0 indicates normal ISO 100, 0 indicates normal ISO 200, and 0 indicates normal ISO 320. It is also used to indicate accelerations per very slow shutter speeds (0 to 0.02) or long exposures (up to 30 to 10000).

Battery check

Appears when battery capacity is low (see "warning functions.")

Magazine check

Indicates that the attached magazine is not at (C) or T) and the magazine is not at (C) or T indicator,

Automatic mode

Indicates that the mode selector dial is set at A.

Warning symbol

Indicates that the magazine is not set at (C) or T) and the magazine is not at (C) or T indicator.

The right hand side

The upper part of the left side of the camera body are the winding crank, the prism release (to lift the mirror) and the camera release lever.

Double exposure

You may be able to double (or multiple) exposures by rewinding the camera without advancing the film. This is possible by double the exposure button in the front of the crank. This may work slightly differently, however. You can double the button and complete the winding until the crank stops.
Mirror and mechanism pre-release
In a pre-release camera, focusing mechanism and lens elements move up and down to bring the image onto the image sensor. The focus distance is calculated based on the movement of the focusing mechanism and the sensor module. The focus distance is then converted into an instruction to the motor, which rotates the lens or mirror to achieve the desired focus distance.

The autofocus
Leica's cameras use a contrast detection autofocus system. The sensor in the camera captures images of the scene and compares them to each other to determine the focus distance. This process is repeated continuously to ensure that the image remains sharp throughout the exposure.

The viewfinder
Leica's viewfinders are designed to provide a clear and bright view of the scene. They use a combination of mirrors and prisms to reflect the image from the lens to the eyepiece. The viewfinder also includes a diopter adjustment to ensure that the image is sharp for viewers with different vision requirements.

The film
Leica's film cameras use 35mm film, which is inserted into the camera and advanced to the next frame after each exposure. The film is then developed to create a print or a digital file.

The battery
Leica's cameras use rechargeable lithium-ion batteries to power the various components, including the motor, autofocus system, and display. The battery life varies depending on the model and usage.

The meter
Leica's cameras use an electronic meter to measure the light level and calculate the correct exposure settings. The meter uses a combination of light sensors and algorithms to ensure accurate exposure in a variety of lighting conditions.

The shutter
Leica's cameras use a mechanical shutter to control the duration of the exposure. The shutter mechanism is activated by the camera's electronic control system and can be set to different speeds to capture different types of light.

The film transport
Leica's film cameras use a film transport mechanism to move the film from one frame to the next. The transport system includes a sprocket wheel and a series of gears to ensure smooth and consistent film movement.
Loading the magazine

The magazine can be loaded by pulling out the empty magazine and inserting a new roll of film. This is done by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right. The magazine is loaded by turning the shutter dial two notches to the right.

Step-by-step film loading

1. Follow the procedure below in the correct order.
   - Feed out the film holder key.
   - The key may be stored in a key-chest and withdrawn from the key-chest when not required.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.
   - Insert the film holder key into the slot of the film holder key.

2. Load the film into the magazine.
   - Place the first frame of film into the magazine.
   - Make sure that the film is aligned correctly with the magazine.
   - Advance the film to the first frame.
   - Advance the film to the first frame.
   - Advance the film to the first frame.
   - Advance the film to the first frame.
   - Advance the film to the first frame.
   - Advance the film to the first frame.
   - Advance the film to the first frame.

3. Insert the film holder back into the camera.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.
   - The film holder is inserted into the camera by turning the shutter dial two notches to the right.

4. Set the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.
   - Turn the film speed dial to the appropriate setting.

5. Set the metering mode.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.
   - Turn the metering mode dial to the appropriate setting.

6. Set the exposure compensation.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.
   - Turn the exposure compensation dial to the appropriate setting.

7. Set the white balance.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.
   - Turn the white balance dial to the appropriate setting.

8. Set the metering system.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.
   - Turn the metering system dial to the appropriate setting.

9. Set the exposure mode.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.
   - Turn the exposure mode dial to the appropriate setting.

10. Set the metering mode.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.
    - Turn the metering mode dial to the appropriate setting.

11. Set the exposure compensation.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.
    - Turn the exposure compensation dial to the appropriate setting.

12. Set the white balance.
    - Turn the white balance dial to the appropriate setting.
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    - Turn the white balance dial to the appropriate setting.
    - Turn the white balance dial to the appropriate setting.
    - Turn the white balance dial to the appropriate setting.
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    - Turn the white balance dial to the appropriate setting.

13. Set the metering system.
    - Turn the metering system dial to the appropriate setting.
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    - Turn the metering system dial to the appropriate setting.
    - Turn the metering system dial to the appropriate setting.
    - Turn the metering system dial to the appropriate setting.
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    - Turn the metering system dial to the appropriate setting.

14. Set the exposure mode.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
    - Turn the exposure mode dial to the appropriate setting.
Shutter speed warning
When the calculated shutter speed is slower than 90s or faster than 1/1000, the shutter speed indication and the red warning triangle start flashing.

Light meter range warning
When the light value falls below or above the range of the function light indication, a "Lo" or "Hi" mark appears on the left-hand part of the display, if the other light value is within the range, the light meter is marked with a blue full-scale flashes.

Flash photography warnings
In dedicated flash photography the indications "F LSL APS" or "TL APS" are displayed together with the flash unit's optical performance and the flash-to-subject distance in the viewfinder.

The 20ZA is an excellent camera to use in combination with flash photography. When a dedicated flash unit is used (e.g. the MF-1000), the flash-to-subject distance and the flash-to-subject angle are always displayed in the viewfinder.

The flash-to-subject distance and the flash-to-subject angle are always displayed in the viewfinder.

Battery capacity warning
When the battery drops below a certain point, the battery symbol is displayed for at least two seconds and the following message is displayed:

Battery recovery may cause the battery symbol to disappear after the two seconds.

4. Depress the exposure button to the pressure point. The camera works according to the selected mode. When the exposure button is depressed, a message indicating pressing the button is displayed on the display approximately that message is shown in the described flash indication.

5. Depress the exposure button fully to have the exposure and the focusing. The first arrow illuminates in the viewfinder, the second arrow illuminates in the viewfinder, the third arrow illuminates in the viewfinder.

6. Release the exposure button. If the flash was properly activated, a small arrow illuminates in the viewfinder indicating the flash is ready to use.

WARNING! When the "F LSL APS" appears on the display when the flash was too strong, e.g. if the flash-to-subject distance was too short, the photo is unacceptable to the user. When the flash was properly activated, a small arrow illuminates in the viewfinder indicating the flash is ready to use. The flash-to-subject distance is too long, the photo is acceptable to the user. When the flash was improperly activated, a small arrow illuminates in the viewfinder indicating the flash is ready to use.

Flash Set at Automatic Mode
The flash unit shall be set on both automatic and semi-automatic flash units.

Functions:
- Automatic exposure control through the built-in system.
- Exposure with pre-set aperture and shutter speed determined by the built-in metering system.
- Viewfinder indication when the flash unit is charged and ready to use.
- Viewfinder indication of on- and over-exposure and disabled flash triggering.

Suggested procedure:
1. Check and connect the flash according to the flash manual.
2. Fix the lens to the camera.
3. Power on the flash.
4. Depress the exposure release button to make sure the flash is ready to use.

Flash Set at Manual Mode
The flash unit shall be set for manual control (see the flash unit instructions).

Functions:
- Exposure with pre-set aperture and shutter speed determined by the built-in metering system.
- Flash synchronization.

Using the dedicated flash unit
Described below are three different methods of using a dedicated flash unit according to modes, namely:

1. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

2. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

3. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

Flash Photography with F Lenses
The F lenses are generally applicable to all the F lenses.

Using the 20ZA with an F Lens
Like all F lenses, the 20ZA, if properly focused, can be used with all of the dedicated flash units. The flash output is determined by the built-in metering system. The flash output is determined by the built-in metering system. The flash output is determined by the built-in metering system.

Using the 20ZA with an F Lens
Like all F lenses, the 20ZA, if properly focused, can be used with all of the dedicated flash units.

F Lens (3.5-4.5) with F Lenses
Use the Hasselblad F (1:2.8) lens to frame the setting range of focus on your 20ZA without fear from damaging or incurring damage to your 20ZA. Since F lenses do not have the electronic shutter of the electronic flash, there will be fewer minor limitations in the camera functions.

Shutter set at TTL mode:
- Full automatic exposure control through the TTL viewfinder.
- Depress the shutter release button to have the exposure and the focusing.

Viewfinder indication when the flash unit is charged and ready to use.

Viewfinder warnings on over- and under-exposure and disabled flash triggering.

Suggested procedure:
1. Attach and set the flash according to the flash manual.
2. Power on the flash.
3. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

4. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

5. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

6. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

7. Depress the exposure release button fully to have the exposure and the focusing. The first arrow is illuminated in the viewfinder, the second arrow is illuminated in the viewfinder, the third arrow is illuminated in the viewfinder.

Using the 20ZA with an F Lens
Like all F lenses, the 20ZA, if properly focused, can be used with all of the dedicated flash units.

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Using the 20ZA with an F Lens
Like all F lenses, the 20ZA, if properly focused, can be used with all of the dedicated flash units.
Depth-of-field preview knob

The depth-of-field preview feature location and operation is identical to the FE and FM series.

F-setting

Depress the small green F-lock button to the left of the green F or the shutter speed ring. Keep it depressed while turning the ring until the F with the index line. Release the button to lock the ring into position. The F-setting locks the shutter with open shutter interlocking with the aperture function. With this setting the lens works exactly like an F lens.

CF lenses can only be used at the F-setting with the 207A.

CF lens in F mode and flash photography

 Dedicated and non-dedicated flash units

The procedures are identical to the corresponding procedures for the F-A lens.

How to use a dedicated flash unit

Suggested procedure:
1. Attach the flash to the camera if desired.
2. Connect the TTL-cord according to flash instruction.
3. Connect the PC-connector to the PC socket on the camera body.
4. Set the flash unit to the desired mode of operation and switch it on. The green flash symbol in the viewfinder lights up when the flash is ready to fire.
5. Select shutter speed on the camera and pre-set aperture on the lens.
6. Press and release the exposure button to make an exposure, observing the viewfinder display for warning indications.
7. Return the camera to cock the shutter and advance the film to the next frame.

Accessories

All accessories originally designed for the 207A are marked with double 'S' letters. This marking is always located on that side which is to the left when the accessory is attached to the camera to make it easily identifiable.

Other accessories are so called "general accessories". These accessories do not have the double 'S' letters but can still be used on the 207A with no restrictions.

A third group of accessories can be used but will cause certain limitations in the TCC funtions. Finally there is a fourth group of accessories that are not compatible with the 207A.

Accessory mounts

The quick coupling plate on the bottom of the camera body fits the handy and reliable Hasselblad Tripod quick coupling 5 and the Snap-back flash grip. On the front of the lenses are recessed and integral bayonet mounts for flash, close-up lenses and lens shades. The viewfinder on top of the camera body accepts various focusing screens and viewfinders. Underneath the winding crank is a bayonet mount for the Hasselblad Winder.

Troubleshooting

Your Hasselblad 207A is built for long and trouble-free service. Should you encounter any operational difficulties the troubleshooting chart below may help you to resolve them. If the problem persists, consult an authorized Hasselblad Service Centre.

Problem

The camera cannot be activated in any way.

Possible cause

- The battery has been removed or is completely exhausted.
- The battery has been inserted incorrectly.
- The camera has not been used after the last exposure.
- The AE lock has been depressed for more than 18 seconds.

Remedy

- Insert or replace the battery.
- Insert the battery according to the markings on the battery case.
- Wind the camera with a full turn of the winding crank.
- Activate the camera by depressing the exposure release button.

The exposure release button cannot be depressed.

- The camera has not been operated after the last exposure.
- The magazine slide is in the magazine.
- The film is finished (frame counter at end).

Remedy

- Rewind the camera with a full turn of the winding crank.
- Remove the magazine slide completely.
- Insert a new film or change to a fully loaded magazine (with film, screen and roll film holder).

The viewfinder image is dark but the display is bright.

- The lens cover is on.
- The camera is pre-focused.

Remedy

- Remove the lens cover.
- Complete the exposure release button and wound the camera with a full turn of the winding crank.

The magazine symbol appears when an E magazine is attached.

Possible cause

- Detect the magazine. Clean all four contact surfaces on the magazine and on the camera body with a list free cloth or duster. Do not touch the contact surfaces with your fingers.
- Take the camera to an authorized Hasselblad Service Centre. Describe what appears in the display to the service technician.

Remedy

- Electronic contact between magazine and camera body.

- The display indicates "Err 1", "Err 2" or "Err 12-4", possibly together with A or M.

- Electronic system error.

Problem

A question of the most important FE accessories is described below. For a complete review of the Hasselblad product system refer to the Hasselblad Product Catalogue.

Winder

The Winder 7 motorizes the 207A for a maximum frame control of 3.5 minutes per second.

Viewfinders

Besides the focusing hand which is delivered with the camera body you have a choice of a magnifying hood and prism viewfinders with or without exposure meters.

E-type extension tubes for close up and macro photography

The E-type extension tubes have all illuminating, both mechanical and electronic, between camera body and lens.

External battery cassette

The external battery cassette contains replaces the original battery cassette in the battery compartment. It provides additional power and the electronic circuit allows you to keep the battery warm in your pocket when you are using the 207A in cold conditions.

Problem

The lens cannot be attached.

Possible cause

- The lens is released.
- The camera body is pre-released or released.

Remedy

- Reattach the lens.
- Re-release and/or rewind the camera with one full turn of the winding crank.

The lens cannot be detached.

- The lens is pre-released or released.

Remedy

- Re-release and/or rewind the camera with one full turn of the winding crank.

The magazine slide is not completely inserted.

- The flash unit is not equipped and ready to be used. The connection between flash unit and camera is defective.

Remedy

- Push the magazine slide in until it positively snaps.
- Open the flash unit and wait until it is fully charged.
- Check the connections according to the flash unit's manual.
- Replace the TTL-ycord.

The display signs appear reversed.

- The viewfinder is not properly installed.

Remedy

- Detach the lens. Clean all four contact surfaces on the lens and on the camera body with a list free cloth or duster. Do not touch the contact surfaces with your fingers.

Technical Specifications and Equipment - 207FA

Camera body

Film advance

Screw chuck. Motor driven with winding accessory, minimum speed 3.5 frames per second. Continuous shutters will produce light advance. Winding lever is both modes.

Film format

6x6 cm and 6x4.5 cm with different magazines. Film (42) 120 and 220 roll film, 6x4.5 mm perforated long and Pellicul Film with different magazines.

Shutter

Film plane shutters, electronically controlled speeds from 12 minutes (30 sec. to Auto modes) to 1/1000 and 1/5000 shutter setting in half stop increments.

Exposure metering

TI, metering at 45 aperture with 10 lenses. Slight metering measuring accuracy 2% of the image area. Metering range 0.25 - 19.5 EV at ISO100 and F/8. Exposure adjustment 1 stop in 1/3 stop increments.

Exposure modes

Spot metering, automatically transferred via digital data from the lens and BC- magnesium or manually programmed value range. 1/3-stop 0.5.

Flash sync

Up to 1/2000 with flash slave shutter.

Film sensitivity


Light control

TI, centre-weighted dedicated system with TTL metering. Available with a wide variety of flash units, adapters, and adapters (e.g. S-430H or S-420H) and flash alone or less. Flash speed range 1/500 to 1/1000. Flash output can be programmed with a separate adjustment for each film in flash.
**Equipment Care, Service and Guarantee**

**Equipment Care**
The Hasselblad 203FA is designed to withstand the rigors of professional use in most environments. To avoid the possibility of damage, it should be protected from the following:

- **Extremes of temperature.** High temperatures can have an adverse effect on both film and equipment. Try to avoid frequent and severe temperature changes. Be particularly careful in humid environments. Carnations of electrical contacts may occur in these situations if sufficient care is not taken. Allow the equipment to acclimatise before disassembly. Try to ensure the storage conditions in such environments are as dry as possible.

- **Dust and grit.** You should take care to prevent dust and grit from getting into your equipment. In coastal areas take measures to protect your equipment from sand and salt water spray. Dust on the lens glass and focusing screen can be removed with a brush or very soft lens brush if necessary. Smeers on the lens glass should be treated with great caution. In some cases they may be removed with a high-quality lens cleaning solution on a tissue but be careful not to scratch the lens or touch any of the glass surfaces with your fingers. If in any doubt, do not attempt to clean lens glass surfaces yourself but allow a "Hasselblad Authorized Service Center" to treat them.

- **Impact.** Your equipment can be damaged by severe physical shocks so practical protective precautions should be taken. When not in use, try to make a habit of storing your camera equipment in some form of protective case or bag to avoid accidental damage.

**Loss.** Hasselblad equipment is much sought after and you should take obvious steps to prevent theft. Never leave it visible in an unattended car, for example. Separate and specific camera insurance cover should be considered by professional users.

**SERVICE**
You should return your equipment to a service centre for occasional checking and preventive maintenance to ensure optimal reliability. If your camera is used constantly and intensively, periodic check-ups every six months are recommended at one of the "Hasselblad Authorized Service Centers". They have the expert staff and specialised equipment necessary to ensure that your equipment remains in perfect working order.

**GUARANTEE**
Provided that you return your equipment from an authorized Hasselblad outlet, it is covered by an international guarantee for one year. The guarantee document and a registration card are supplied with the camera. Keep the guarantee document carefully, but fill in the registration card and return it to your Hasselblad distributor.

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### Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>10542</th>
<th>10546</th>
<th>11099</th>
<th>11101</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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<td></td>
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</table>

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