

PROMASTER³

FTA 5000

OPERATING INSTRUCTIONS

AF

INTERCHANGEABLE
DEDICATED MODULE
(WITH AF ILLUMINATOR)

FLASH DEDICATION

This flash unit requires Interchangeable Dedicated Module to fit the following dedicated mating cameras for dedicated flash operation.

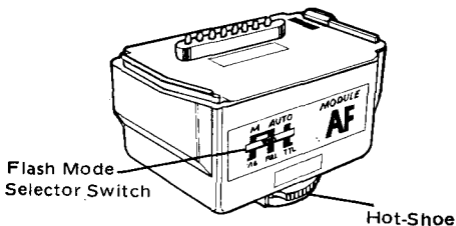
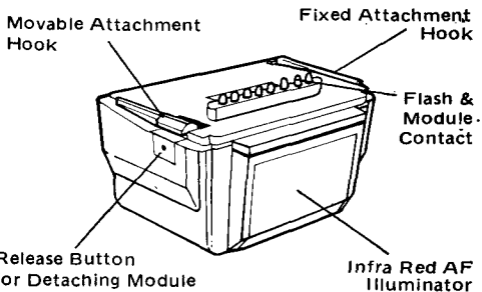
AF MODULES:

- **AF MODULE CN** is for CANON
EOS 650, 620, 750, 850, 630, 10, REBEL, etc
- **AF MODULE ML** is for MINOLTA
MAXXUM 7000, 9000, 5000
- **AF MODULE MLI** is for MINOLTA
MAXXUM 7000i, 3000i, 5000i, 8000i, 7xi, etc
- **AF MODULE NK** is for NIKON
N2020, N4004, N8008, N6006
- **AF MODULE YS** is for YASHICA
230AF, 200AF
- **AF MODULE PX** is for PENTAX
AF1/SFX, SF1N, SF10/SF7
- **AF MODULE OM** is for OLYMPUS
OM707/OM-77AF

- **As different models of cameras operate differently for flash photography, you should read the Instructions Manual of your camera for details of flash operation.**

- **Before attaching the Module onto the Flash Unit always make sure that the Module and the Flash Unit contact points are all clean. The stain or dirt on surface of the contact points on the Module side or on the Flash Unit side may cause malfunction. You may use soft cloth to clean the contact points on both sides.**

PARTS IDENTIFICATION

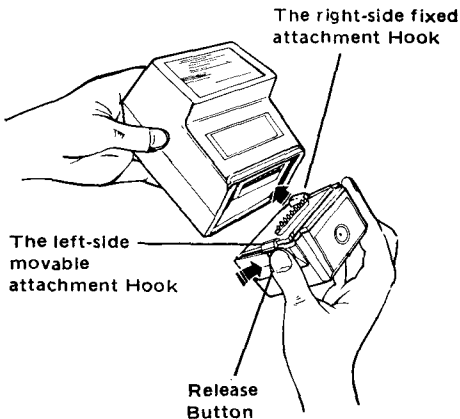


FLASH MODE SELECTOR POSITIONS:

- TTL — TTL Automatic Flash Mode
- Full — Full Power Manual Flash Mode
- 1/16 — 1/16 Power Manual Flash Mode

ATTACHING AND DETACHING THE DEDICATED MODULE

1. To attach the module, position the right-side fixed attachment hook onto the flash unit and then push the left-side of the module upward until the left-side movable attachment hook clicks into position.



2. To detach the module, press the button on the left-side of the module and while pressing the button, detach the module.

AF ILLUMINATOR FOR AUTOFOCUSING

When the camera's operating button is pressed halfway, the AF illuminator is automatically activated when required, with low-contrast in low light. This illumination enables the camera's autofocus system to determine focus status and adjust the lens.

The AF Illuminator enables autofocusing with subjects up to about 16 feet away. This distance is for autofocusing only, when focusing manually, flash photograph is possible up to Auto Flash range of the aperture selected. (Please refer TTL Auto Flash range table).

NOTE: The working range for the AF Illuminator is based on standard test method with a 50 MM lens. If longer focal lengths are used, the camera may not focus lens accurately. In this case or whenever focus signals blink, set focus mode of the camera switch to M and focus manually.

IMPORTANT NOTES:

- **WHEN ATTACHING THE MODULE ONTO THE FLASH UNIT OR DETACHING THE MODULE FROM THE FLASH UNIT, ALWAYS MAKE SURE THAT THE POWER OF THE FLASH UNIT HAS BEEN SWITCHED OFF.**
- **DO NOT ATTACH THE FLASH UNIT TO THE MODULE WHILE THE MODULE IS MOUNTED ON THE CAMERA.**
- **WHEN MOUNTING THE FLASH UNIT WHICH HAS BEEN ATTACHED TO THE MODULE ONTO THE CAMERA, ALWAYS MAKE SURE THAT THE POWER OF THE FLASH UNIT HAS BEEN SWITCHED OFF.**
- **USE THE DEDICATED MODULE ONLY WITH THE DESIGNATED MATING CAMERA. USING IT WITH NON-MATING DEDICATED CAMERA MAY CAUSE DAMAGE TO THE CAMERA, THE FLASH UNIT, THE MODULE OR ALL.**

It is important to follow the above instructions. Otherwise, it may cause damage to the flash unit, the module, the camera or all.

PROGRAMMED MODE TTL AUTO FLASH OPERATION

1. Set the camera's Mode to a 'PROGRAM' exposure mode and set the flash unit's Mode to 'TTL' position.
- 2.* When the flash unit is ready to fire, the ready signal LED 'X-sync.' speed will appear in the view finder and the shutter speed of the camera is set to this 'X' speed automatically. The camera will also automatically select the optimum aperture.
3. Press camera's operating button halfway to autofocus. To hold focus, keep the operating button pressed halfway. When focus signals in the viewfinder blink, set focus mode of the camera switch to M and focus lens manually.

NOTE:

- (a) Make sure that the subject is within the autoflash range of the programmed aperture (please refer to the TTL Auto Flash Range Table)
- * (b) With NIKON N2020/N4004 (with NIKKOR lenses), set and lock lens aperture at minimum aperture (largest-f-number)
- (c) When used with MINOLTA MAXXUM 7000 set to shutter-priority (S) mode, operation will be the same as in program P-mode.

SHUTTER-PRIORITY MODE TTL AUTO FLASH OPERATION

With the MINOLTA MAXXUM 9000 in shutter-priority S-Mode and the flash unit in 'TTL' mode, any shutter speed from 1/250 to 30 sec. can be set and aperture is set automatically to F5.6. TTL autoflash metering controls exposure based on this aperture setting.

With the CANON EOS 650/620 in Shutter-Priority AE TTL mode and the flash unit in 'TTL' mode, the X-sync. shutter speed can be set between 1/250 sec. to 30 sec. with the EOS 620 and between 1/125 sec. to 30 sec. with the EOS 650. The aperture is set automatically.

APERTURE PRIORITY MODE TTL AUTO FLASH OPERATION

1. Set the camera's Mode to 'A' auto exposure mode and set the flash unit's mode to 'TTL' position.
2. Set the lens aperture you wish to use.
3. Focus on your main subject and refer to the Exposure Calculator to check that the subject is within the autoflash range of the aperture selected. If not, move closer or use a larger aperture. (Please refer to the TTL auto flash range table in the Operating Instructions of the flash unit).
4. When the flash unit is ready to fire, the ready signals LED 'X-sync.' speed will appear in the view-finder and the shutter speed of the camera is set to this 'X' speed automatically.

NOTE: When used with CANON EOS, if a smaller aperture is set in the dark or low light conditions, the automatically-set shutter speed will be comparatively slow. Please be careful of camera-shake and use a tripod. The camera-shake warning does not sound when the flash is turned on.

MANUAL MODE TTL AUTO FLASH OPERATION

For back-lit subjects or in low light, slower X-sync. speeds can be set to increase background exposure while maintaining normal exposure of the main subject i.e. to fill in shadows and balance lighting.

1. Set the camera's mode to 'M' manual mode and set the flash unit's mode to 'TTL' position.
2. Set the camera shutter speed manually to a flash X-sync. speed or slower speed and the lens aperture you wish to use.
3. Focus on you main subject and refer to the exposure calculator to check the subject is within the autoflash range of the aperture selected. (Please refer to the TTL autoflash range table in the Operating Instructions of the flash unit).

MANUAL FLASH OPERATION

1. Set the camera's mode to 'M' manual mode and set the flash unit's mode to 'M' position.
2. Manually set the camera shutter speed to a flash X-sync. speed.
3. Focus on your subject and note the flash-to-subject distance. Using the exposure calculator to find the proper lens aperture (Please refer to "USING THE EXPOSURE CALCULATOR").
4. Set this aperture on your camera.

CALCULATION OF F-number without use of the exposure calculator:

$$\text{F-Number} \approx \frac{\text{Guide Number (Ft)}}{\text{Distance (Ft)}}$$

LOWER POWER MANUAL FLASH

At Manual Flash Operation, you can set the flash unit's Mode Selector Switch to '1/16' power position, which will give you faster recycling time and more number of flashes. It is useful for close-up works and the shooting with motor-drive film winder (up to 2 frames per second). Guide number at this lower power setting is 1/4 of the full power guide number (please see Guide Number Table in the Operating Instructions of the flash unit).

USING THE EXPOSURE CALCULATOR

- (a) **At TTL Auto Operation for Dedicated TTL Cameras**
- (1) Set **INDEX** line of the **ASA/DIN** film Selector Switch to the **ASA/DIN speed** of the film in use.
 - (2) Focus on your subject and note the flash to subject distance.
 - (3) Locate the lens aperture you wish to use for **TTL Auto Operation** and read the distance opposite this selected aperture to check whether the flash to subject distance is within auto range. If it is, set the aperture on your camera.
- (b) **At Manual Flash Operation**
- (1) Set **INDEX** line of the **ASA/DIN** Selector Switch to the **ASA/DIN speed** of the film in use.
 - (2) Focus on your subject and note the flash to subject distance. Locate this distance on the distance scale.
 - (3) Read the aperture opposite this distance and set the f-number on your camera.