

PROMASTER[®]

FTM 5000

OPERATING INSTRUCTIONS

**INTERCHANGEABLE
DEDICATED MODULE**

FLASH DEDICATION

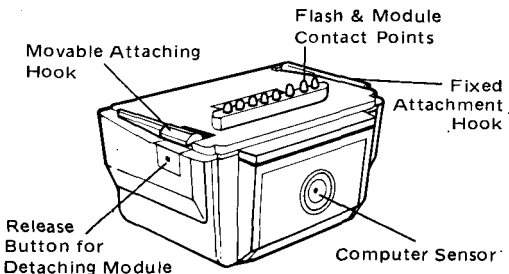
This flash unit requires Interchangeable Dedicated Module to fit the following dedicated mating cameras for dedicated flash operation.

NON-AF MODULES:

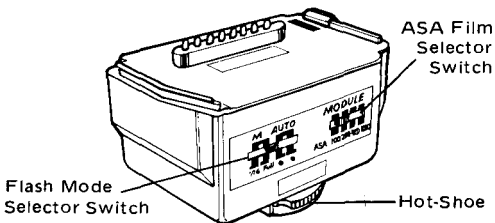
- **MODULE CN** is for CANON
A-1, AE-1, AE-1 Program, New F-1, AV-1, AL-1, AT-1, T50, T70
- **MODULE ML** is for MINOLTA
XD Series, XG Series, X700, X570, X370
- **MODULE PX** is for PENTAX
ME-Super, ME-F, MV, MG, LX, Super A Program, Program Plus, A3000, P3N
- **MODULE NK** is for NIKON
FE, EM, FE2, FA, FG, FM2, FG20, N2000
- **MODULE RC** is for RICOH
XR-Series, KR-Series, XR-9, XR-X/XR-M
- **MODULE YS** is for YASHICA
FX-Series
- **MODULE OM** is for OLYMPUS
OM1, OM2, OM2N, OM10, OM4, OMF, OMG, OM2S, OM-PC
- **MODULE ST** is for STANDARD SLR cameras

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

PARTS IDENTIFICATION



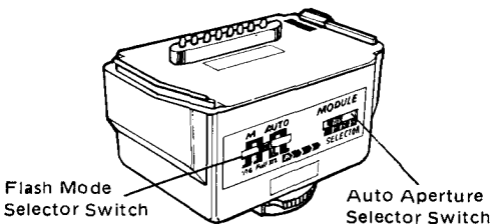
NON-AF MODULE CN:



FLASH MODE SELECTOR POSITIONS:

- BLUE o — Normal Automatic Flash Mode
- YELLOW o — Normal Automatic Flash Mode
- FULL — Full Power Manual Flash Mode
- 1/16 — 1/16 Power Manual Flash Mode

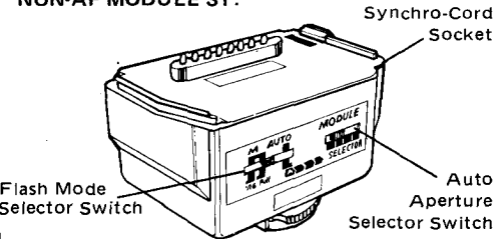
NON-AF MODULE ML, NK, PX, RC, OM, YS:



FLASH MODE SELECTOR POSITIONS:

- A** — Normal Automatic Flash Mode → • Auto Aperture Selector
- TTL — TTL Automatic Flash Mode
- M — Full Power Manual Flash Mode
- 1/16 — 1/16 Power Manual Flash Mode

NON-AF MODULE ST:



FLASH MODE SELECTOR POSITIONS:

- A** — Normal Automatic Flash Mode → • Auto Aperture Selector
- M — Full Power Manual Flash Mode
- 1/16 — 1/16 Power Manual Flash Mode

NORMAL AUTO APERTURE SELECTOR POSITIONS OF NON-AF MODULES:

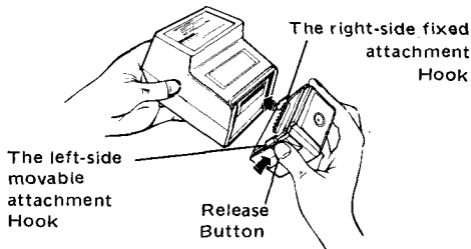
AUTO APERTURE SELECTOR SETTING	BLUE	YELLOW	*GREEN
ASA 100 AUTO	F2	F4	*F5.6

* MODULE CN DOES NOT HAVE THIS SETTING

AUTO RANGE TABLE IS IN THE OPERATING
INSTRUCTIONS OF THE FLASH UNIT.

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 release button on the left-side of the module and while pressing the button, detach the module.

- **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.**

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 NON-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.

TTL PROGRAMMED AUTO FLASH WITH MINOLTA X700, NIKON N2000

- (1) Set the ASA for the film in use on the camera.
- (2) Set the flash unit's mode selector switch on the module to 'TTL' position and set the camera's mode to a 'PROGRAM' exposure mode.

**

- (3) Set the lock the lens at minimum aperture (i.e. largest f-number).
- (4) When the flash unit is ready to fire, the ready signal LED 'X-sync.' speed will appear in the viewfinder and the shutter speed of the camera is set to this X-speed automatically. The camera will also automatically select the optimum aperture, depending on the lighting.

**

- NOTES:**
- (1) With MINOLTA X700, only new type FD lenses have locking device.
 - (ii) With MINOLTA X700, the green 'P' in the viewfinder will blink if the lens is not set at the minimum aperture.
 - (iii) With NIKON N2000 (with NIKKOR lenses), the red arrows in the viewfinder will blink if the lens is not set at the minimum aperture.

TTL APERTURE PRIORITY AUTO FLASH OPERATION

With MINOLTA X570, X700

With PENTAX LX, Super A Program

With OLYMPUS OM2, OM2N, OM4, OM25,
OM-PC,

With RICOH XR-P XR-M/XR-X

With YASHICA FX-103

- (1) Set the ASA for the film in use on the camera.
- (2) Set the flash unit's Mode Selector Switch on the Module to 'TTL' position.
- (3) Set the camera's Mode Selector to 'A' AUTO position.
- (4) Set the lens at the aperture you wish to use.
- (5) Focus on your subject and note the flash-to-subject distance.
- (6) Read the Exposure Calculator to check whether that distance is within auto range for the selected aperture (please read the flash unit's Operating Instructions for 'USING THE EXPOSURE CALCULATOR' or refer to the TTL Auto Flash Range Table).
- (7) When the flash unit is ready to fire, the 'ready' signal will appear in the viewfinder (please see your camera's owner Manual for details of viewfinder display) and the shutter speed of the camera is set to 'X' speed automatically.



NOTE:

- (a) With PENTAX Super A Program when on this TTL mode, if the lens aperture is set to 'A' mark, the camera lens aperture will be automatically set to the flash unit's Auto aperture setting. i.e. If the Auto Range Selector Switch position is changed, the lens aperture is also changed automatically to the corresponding Auto Aperture.
- (b) With some Olympus cameras, flash firing is automatically inhibited at shutter speeds faster than 1/60 sec when on Program mode or Auto mode. You will have to set the shutter speed to 1/60 or slower.
- (c) With RICOH XR-P, XR-M/XR-X on TTL Auto flash mode, if the camera's lens aperture ring is set to "P" and the camera's exposure mode is set to PD, P, or PA, the camera lens aperture will be automatically set to F5.6.

NORMAL AUTO FLASH OPERATION WITH CANON AV-1, AT-1, AL-1, New F-1 (Aperture Priority AE Mode)

- (1) Set the ASA for the film in use on both camera and flash unit and set the flash mode selector switch on the Module 'A' position.
- (2) Set the shutter speed dial to any speed other than 'B'.
- (3) Set the auto range selector switch on the flash body to one of the desired auto aperture positions.
- (5) When the flash unit is ready to fire, 'ready' signal appears in the viewfinder (please see your camera's owner manual for details of viewfinder display) and the shutter speed of the camera is set to 'X' speed automatically.
- (4) Set the camera's aperture manually to the flash unit's auto aperture selected at (3).

NOTE:

- (1) When using this flash unit with lens other than FD lenses or other standard lenses, both shutter speed (X-synch) and auto aperture must be set manually.
- (2) When using with New F-1 without battery, set the shutter dial to  mark.
- (3) When using with the AE-1 Program, the  mark may blink momentarily after shutter release, which is not an automatic flash exposure confirmation signal, but only means that the flash fired.
- (4) When using with the A-1, AE-1, the aperture indication in the viewfinder may differ from the F-stop selected on the flash. This does not affect the exposure.

**PROGRAMMED AUTO FLASH
OPERATION with CANON A-1, AE-1
AE-1 Program, T50, T70
New F-1 (Shutter Priority AE Mode)**

- (1) Set the ASA for the film in use on both camera and flash unit and set the flash mode selector switch on the Module to 'A' position.
- (2) Set the shutter speed dial to any speed other than 'B'.
- (3) Set the camera's FD lens aperture ring to 'A' mark.
- (4) Set the auto range selector switch on the flash body to one of the desired auto aperture positions. When the flash unit is ready to fire, the camera's aperture will be set automatically to the flash unit's auto aperture selected, and the flash ready signal appears in the camera's viewfinder (Please See your camera's owner manual for details of viewfinder display) and also the shutter speed of the camera is set to 'X' speed automatically.

PROGRAMMED AUTO FLASH OPERATION with PENTAX

Super A Program, Program Plus, A3000

- (1) Set the ASA for the film in use on the camera and set the flash Mode Selector Switch on the Module to 'A' position.
- (2) Set the camera's Mode Selector to 'Auto' position. (to 'PROGRAM' on A3000)
- (3) Set the camera lens aperture ring to 'A' mark.
- (4) Set the Auto Range Selector Switch on the flash body to one of the desired auto aperture positions. When the flash unit is ready to fire, the camera's aperture will be set automatically to the flash unit's auto aperture selected, and the flash ready signal — both 'X' speed and auto aperture will appear in the viewfinder and the shutter speed of the camera is set to 'X' speed automatically.

NORMAL AUTO FLASH OPERATION

With MINOLTA XD Series, XG Series, X370

With PENTAX ME-Super, ME-F, MV, MG, P3N

With NIKON FE, EM, FG20

With OLYMPUS OM10, OMF, OMG

With RICOH XR-Series, KR-Series

With YASHICA FX-Series

- (1) Set the ASA for the film in use on the camera and set the flash Mode Selector switch on the Module to 'A' position.
 - (2) Set the camera's Mode Selector to 'A' Auto position.
 - (3) Set the Auto Range Selector Switch on the flash body to one of the desired auto aperture positions.
 - (4) Set the camera's aperture manually to the flash unit's auto aperture selected at (3).
 - (5) When the flash unit is ready to fire, 'ready' signal appears in the viewfinder (please see your Camera's Owner Manual for details of viewfinder display) and the shutter speed of the camera is set to 'X' speed automatically.
- * With NIKON FM2, the shutter speed of the camera should be set to X200 or slower position.

NORMAL AUTO FLASH OPERATION

with Other SLR Camera

- (1) Set the ASA for the film in use on the camera and set the flash Mode Selector Switch on the Module to 'A' auto position.
- (2) Set the shutter speed of the camera to 'X'.
- (3) Set the Auto Range Selector Switch on the flash body to one of the desired auto aperture positions.
- (4) Set the camera's aperture manually to the flash unit's auto aperture selected at (3).

MANUAL FLASH OPERATION

- (1) Set the ASA for the film in use on the camera and set the flash Mode Selector switch on the Module to 'M' manual position.
- (2) Set the shutter speed of the camera to 'X' synch speed.
- (3) Focus on your subject and note the flash-to-subject distance. Using the Exposure Calculator to find the proper lens aperture (please read 'USING THE EXPOSURE CALCULATOR')
- (4) Set this aperture on your camera.

CALCULATION OF F-NUMBER WITHOUT USE OF THE EXPOSURE CALCULATOR

$$\text{F-NUMBER} = \frac{\text{Guide Number (ft.)}}{\text{Distance (ft.)}}$$

REDUCED 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 Normal Auto Operation for Standard SLR Cameras.

- (1) Set INDEX line of the ASA/DIN film selector switch to the ASA/DIN speed of the film in use.

- (2) Read along the auto line (blue or yellow or green according to your auto range setting selected) and find the corresponding f-number for auto operation. Set this aperture on your camera.

(b) 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.**

(c) 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.**