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**OLYMPUS**



Electronic Flash T32  
■ OPERATING INSTRUCTIONS

# ELECTRONIC FLASH T32 OPERATING INSTRUCTIONS

We greatly appreciate that you have acquired the special Olympus Electronic Flash T32.

This fully automatic, electronically controlled flash unit is equipped with the epochmaking method "TTL Centralized Control" developed by Olympus, also called TTL (off-the-film) Auto Flash. It can also be switched for normal auto/manual control. As an integral part of the OM System T-series Flashphoto Group, the T32 can be adapted to all your creative photographic needs.

We ask you to familiarize yourself with its functions and operation in order to take advantage of all its possibilities in photography.

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# MAIN SPECIFICATIONS

- **Type:** Energy-saving, series-circuit type TTL Centralized Control (TTL AUTO), system flash unit (with normal auto and manual capability).
- **Guide Number:** 32 (ASA 100, meters) or 104 (ASA 100, feet).
- **Coverage Angle:** 53° vertical, 74° horizontal.
- **Flash Duration:** 1/40,000 – 1/1,000 sec.
- **Recycling Time:** 0.2 – 10 sec. with AA Alkaline batteries on TTL AUTO and NORMAL AUTO (varies depending on flash-to-subject distance).
- **Flashes per set of AA Alkaline Batteries:** 100 – 500 on TTL AUTO and NORMAL AUTO (varies depending on flash-to-subject distance).
- **Tilting Angle of Flash Diffuser Window:** Down 15°, up 90°.
- **Color Temperature:** 5,800° K.
- **Connection to Camera:** ① On-camera clip on (via hot shoe). ② Off-camera w/wo Power Bounce Grip 2 via TTL Auto Connector T4 (T3) and TTL Auto Cord T0.3m with OM-2N (OM-2) and OM-1N.
- **Exposure Calculator:** Reversible plate type – blank for OM-2N (OM-2) for TTL Auto/Manual flash; calculator for OM-1N (OM-1), OM-10 and non-OM cameras for Normal Auto/Manual flash.
- **TTL AUTO (with OM-2N or OM-2):**  
Aperture Setting: Continuous, couples with aperture ring setting of camera lens.  
SBC Sensor Acceptance Angle: Matches view of camera lens.

TTL AUTO Check: Neon-flicker indication. Viewfinder indication contact provided.

Ready Light Check: Charge lamp and viewfinder indication contact.

**Working Range (ASA 100): for guidance only**

F1.2	3.4 – 26m (10 – 86 ft.)	F5.6	0.7 – 5.6m (2.2 – 18 ft.)
F1.4	2.8 – 22m (9 – 73 ft.)	F8	0.5 – 4m (1.6 – 13 ft.)
F2	2 – 16m (6.5 – 52 ft.)	F11	0.36 – 3m (1.1 – 9 ft.)
F2.8	1.4 – 11m (4.5 – 36 ft.)	F16	0.25 – 2m (0.8 – 6.5 ft.)
F4	1 – 8m (3.2 – 26 ft.)	F22	0.18 – 1.5m (0.5 – 4.5 ft.)

● **NORMAL AUTO:**

Aperture Setting: 3 apertures (F4, F5.6 and F8 at ASA 100).

Normal Auto Sensor Acceptance Angle: Approx. 20°.

Working Range: 1 – 8m (3.2 ft. – 26 ft.) at F4; 0.7 – 5.6m (28 in. – 18 ft.) at F5.6; 0.5 – 4m (20 in. – 13 ft.) at F8 (ASA 100).

AUTO Check: Neon-flicker indication. Viewfinder indication contact provided.

Ready Light Check: Charge lamp and viewfinder indication contact.

● **MANUAL:**

Guide Number: HI – 32 (ASA 100, m), 104 (ASA 100, feet) and LOW – 16 (ASA 100, m), 52 (ASA 100, feet).

Ready Light Check: Charge lamp and viewfinder indication contact.

● **Test Button for NORMAL AUTO Check & Open Flash:**  
Push-button type (for non-TTL AUTO only.)

● **TTL Auto Cord Socket:** Plug-in type (automatic lock).

● **External Power Socket:** Plug-in type.

● **Termination of Light Emission:** Instantaneous. With power switch off, T32 will not fire even when fully charged.

● **Power Source:** ① 1.5V 'AA' battery x 4 (incl. Ni-Cd) inside T32. ② 1.5V 'C' battery x 4 (incl. Ni-Cd) inside Power Bounce Grip 2. ③ AC house current via Electronic Flash AC Adapter 2.

② and ③ are activated by T32 ON/OFF switch.

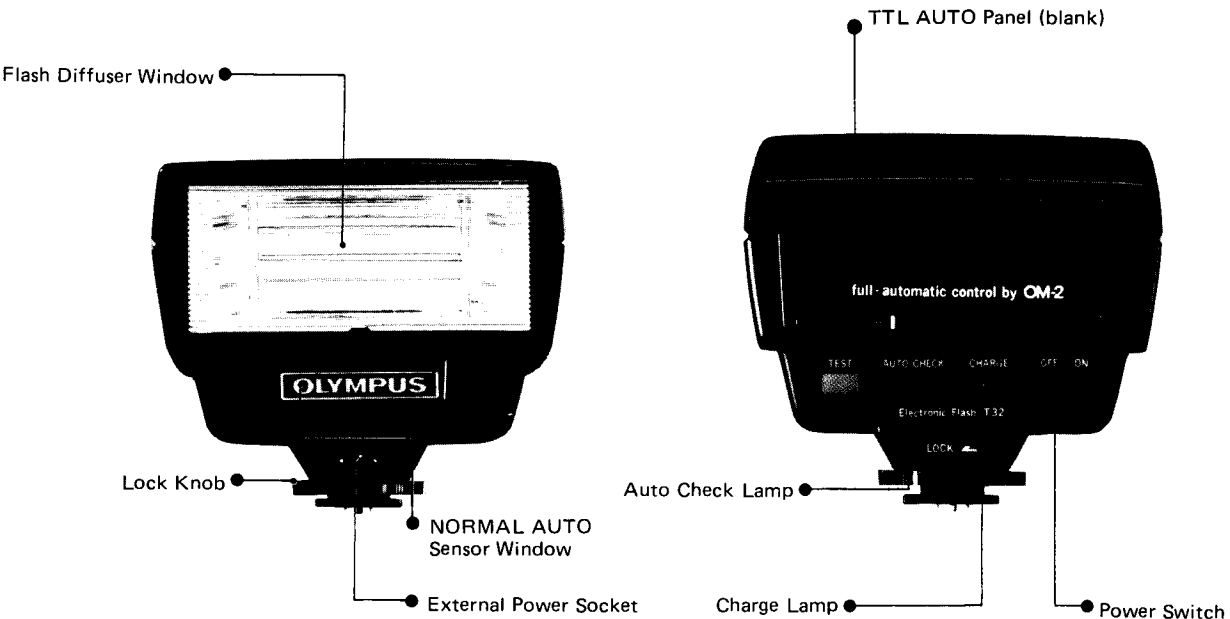
● **Dimensions and Weight:** 104 x 81 x 70mm, 320gr. (less batteries) (4.1" x 3.2" x 2.8", 11.3 oz.)

**T32 Flash Chart (On-Camera with BOUNCE facility)**

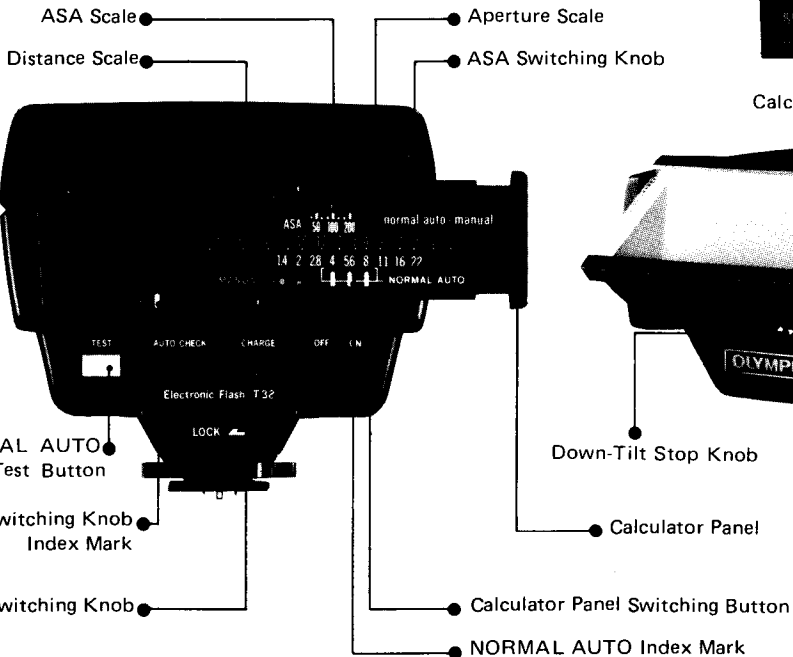
Camera	Selection of Accessory Shoe	Selection of TTL AUTO Connector	Selection of Flash Mode
OM-2N	Shoe 4	Type 4	● TTL Auto ● Normal Auto ● Manual
OM-1N	Shoe 4	Type 4	● Normal Auto ● Manual
OM10 OM10 QUARTZ	Built onto the camera	---	● Normal Auto ● Manual
OM-2	Shoe 3	Type 3	● TTL Auto ● Normal Auto ● Manual (1/60 sec. cannot be used)
	Shoe 2	Type 3	● Normal Auto ● Manual
OM-1	Shoe 1	---	● Normal Auto ● Manual
Other Cameras	Hot Shoe	---	● Normal Auto ● Manual

Flash modes indicated in red provide flash charge/auto check information in the viewfinder.

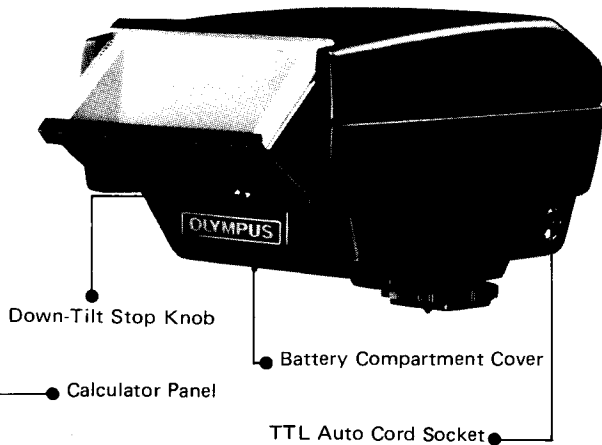
# DESCRIPTION OF CONTROLS



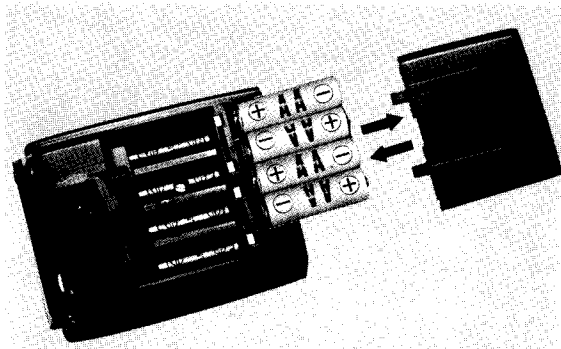
Calculator Panel for NORMAL  
AUTO/MANUAL mode (indicated in meters)



Calculator Panel(indicated in feet)



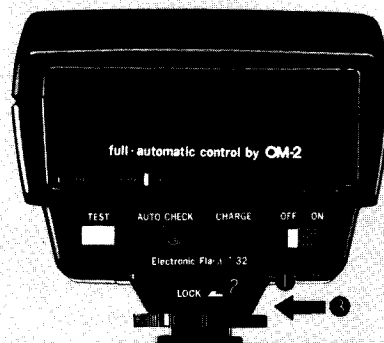
## LOADING THE BATTERIES



Insert four 1.5V AA size batteries properly.

There are available UM-3 type manganese batteries, AM-3 type alkaline batteries, and NR-AA type Ni-Cd batteries. Alkaline batteries last about 4 times longer than manganese batteries.

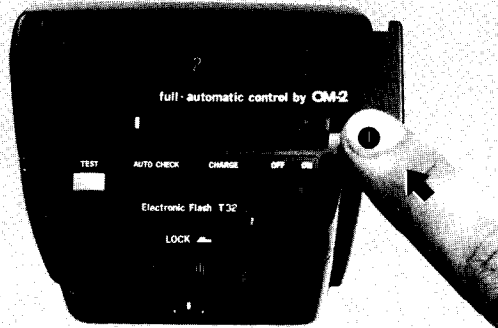
## CHECKING THE BATTERIES



Switch the T32 ON. Wait until the charge signal lights on.

After confirmation, switch the T32 OFF.

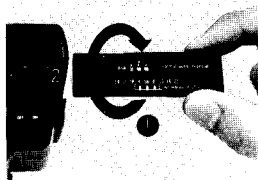
## REVERSING THE CALCULATOR PANEL MOUNTING THE T32



Press the button and remove the calculator panel.

Slide the calculator panel to the left as far as it will go, until it clicks into place.

\* Blank for OM-2 and -2N (TTL Auto/Manual); F number/Distance scale for OM-1, -1N, -10 and cameras other than OM (Normal Auto/Manual).



Slide the T32 into the accessory shoe and turn the lock knob in the direction of the arrow to lock the flash in position.

## TTL CENTRALIZED CONTROL FLASH USING THE T32 AND THE OM-2N (OM-2)

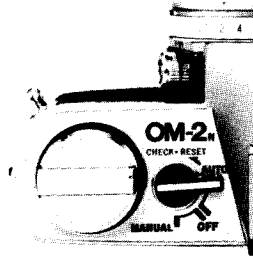
If the identification mark engraved on the top plate of your camera is "OM-2" (and not "OM-2N"), set the synchro terminal to "X" by aligning the red dot on the X and FP selector lever with the "X" indication on the flash socket. Your camera performs TTL Centralized Control Flash with Shoe 3 as described in the following pages, but the charge/auto check indication is not seen in the viewfinder.



## PREPARATION



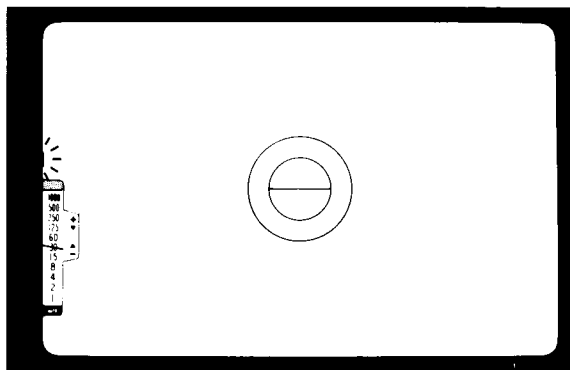
With the calculator panel in the 'full automatic control by OM-2' position, turn the power switch to the "ON" position.



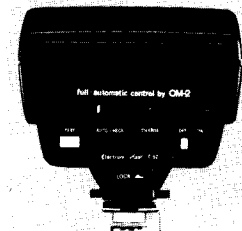
Set the camera's selector lever to "AUTO".



## CHECKING THE CHARGE SIGNAL

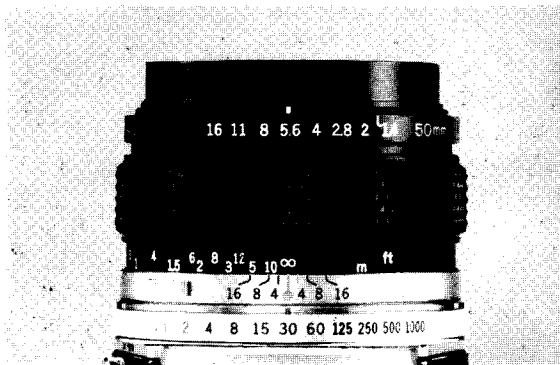


Wait until the charge signal lights on.



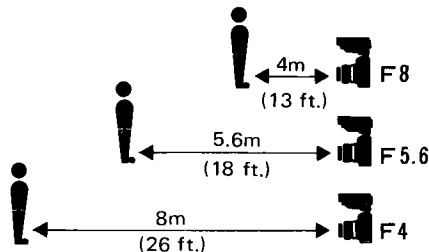
The charge signal can be seen both in the viewfinder and on the back of the T32.

## SELECTING THE APERTURE



Any aperture can be used for TTL AUTO Flash photography with the T32 and the OM-2. For average indoor flash photography the aperture setting at F5.6 will provide good results.

F1.4 F2 F2.8 F4 F5.6 F8 F11 F16



TTL Auto range (ASA 100)

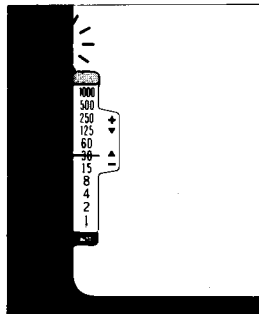
## TAKING THE PICTURES

## CHECKING CORRECT AUTO FLASH

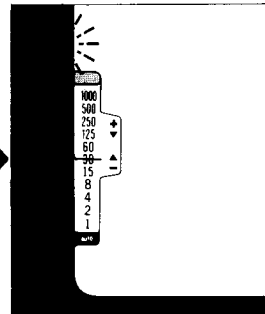


**Focus and press the shutter release.**

\* For direct flash, set the flash diffuser window in the front position (0° tilting).



OM-2N

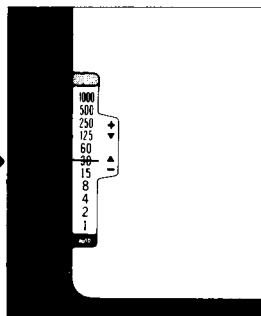
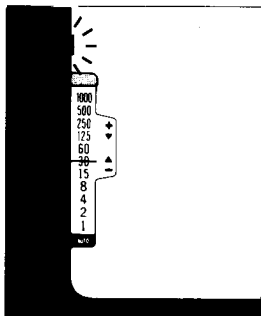


If the signal light blinks repeatedly, the picture was properly exposed by flash.

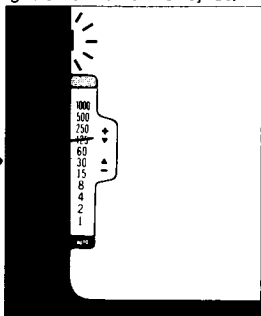
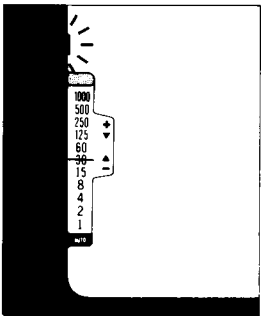


The correct auto flash signal can be seen both in the viewfinder and on the back of the T32.

# SHOOTING WITHOUT FLASH LIGHT



If the signal light does not blink but instead goes out, the subject is too far. Choose a larger aperture or get closer to the subject.



If you want to take pictures with existing light, turn the T32 off; the charge lamp goes out and the T32 will not fire even when the capacitor is fully charged.

If the signal stays lit (the T32 did not fire):  
The subject is bright enough and the picture was taken properly by existing light. The flash light was not needed.

- \* In case exposure must be achieved by flash illumination:  
Turn the aperture ring until the meter needle points to 1/30 sec. or slower, and shoot.

# ADVANCED TECHNIQUES USING THE T32 AND THE OM-2<sub>N</sub>(OM-2)

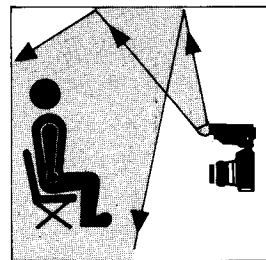
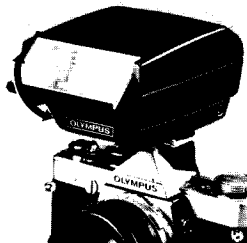
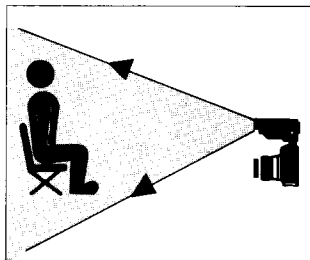
Direct Flash



Bounce Flash



Bounce flash is easy with TTL Auto method.

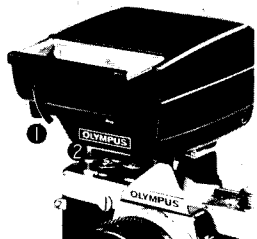


Determine the bounce angle so that direct light does not hit the subject.

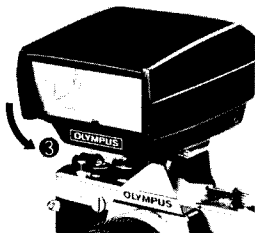
## Close-Up Flash



So is close-up flash photography.



Tilt the flash diffuser window 15° downward by sliding the knob to the

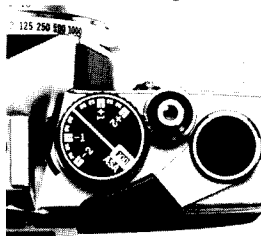


right.

## Flash Exposure Compensation



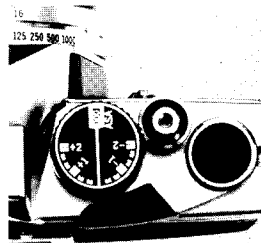
To compensate dark background



Turn the dial to the ⊖ side.

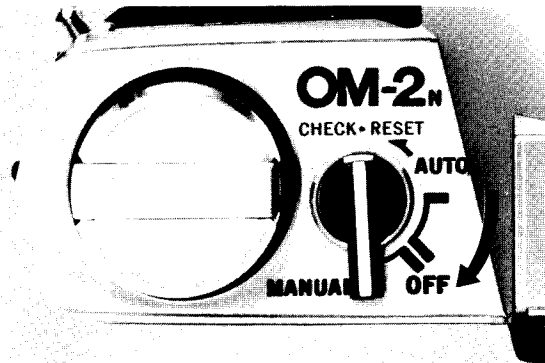


To compensate bright background



Turn the dial to the ⊕ side.

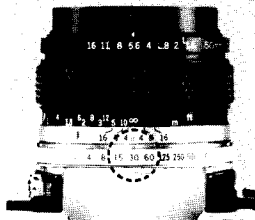
## MANUAL FLASH WITH OM-2N (OM-2),\* (GN32)



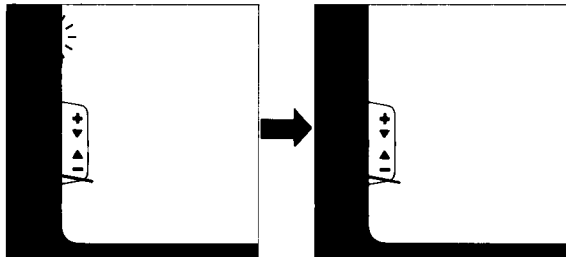
Set the camera's selector lever to "MANUAL". Select the F-number and set the aperture ring.

Select the aperture based on flash-to-subject distance and with a guide number of 32 (ASA 100, meters) or 104 (ASA 100, feet). Set the shutter speed to 1/30 sec.

\* The OM-2 synchronizes with electronic flash at the shutter speed of 1/60 sec. or slower. However, to eliminate any possibility of accidental dial shifting, it is recommended you use the 1/30 sec. setting.

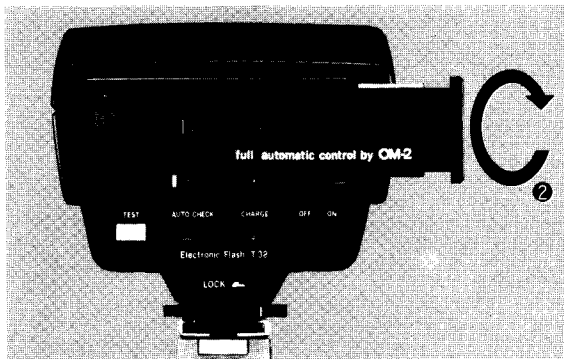


Switch the T32 ON, and press the shutter release after the signal light begins to glow.



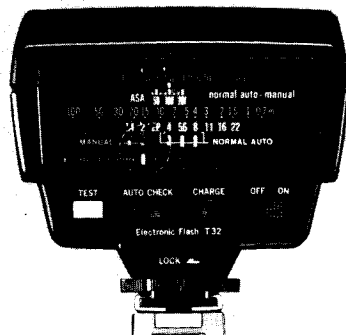
The signal light goes out to indicate that full power output has been emitted.

# MANUAL FLASH WITH OM-2N (OM-2), (GN16)

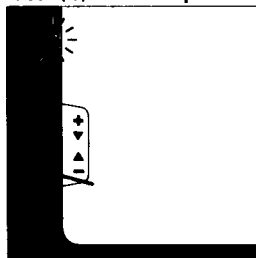


Turn the calculator panel over.

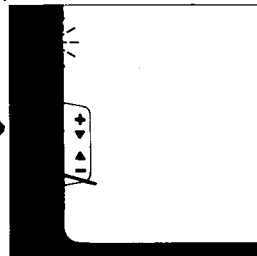
Set the ASA film speed.  
Select the aperture based on flash-to-subject distance and with a guide number of 16 (ASA 100, meters) or 52 (ASA 100, feet).  
Set the shutter speed to 1/30 sec.



Set the mode switching knob to 'MANUAL G No. 16.' (1/4 of full power flash)



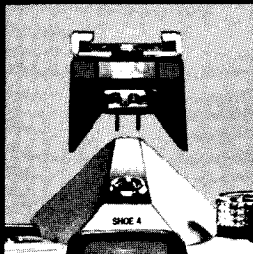
OM-2N



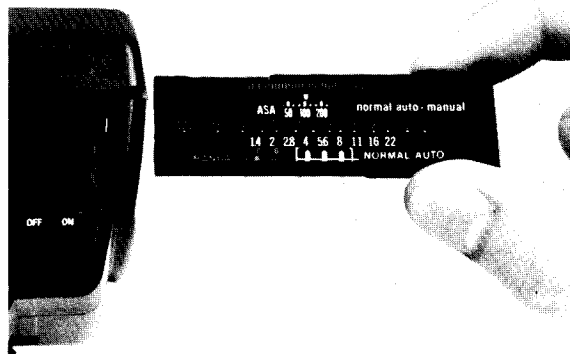
The signal light blinks repeatedly to indicate that low power output has been emitted.

## NORMAL AUTO FLASH WITH OM-1<sub>N</sub> (OM-1), OM-10 (& CAMERAS OTHER THAN OM)

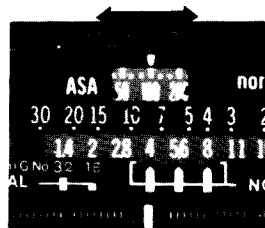
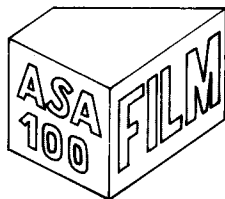
If the identification mark engraved on the top plate of your camera is "OM-1" (and not "OM-1<sub>N</sub>"), set the synchro terminal to "X" by aligning the red dot on the X and FP selector lever with the "X" indication on the flash socket. Your camera performs Normal Auto Flash with Shoe 1 as described in the following pages, but the charge/auto check indication is not seen in the viewfinder.



## PREPARATION



Press the button and remove the calculator panel.

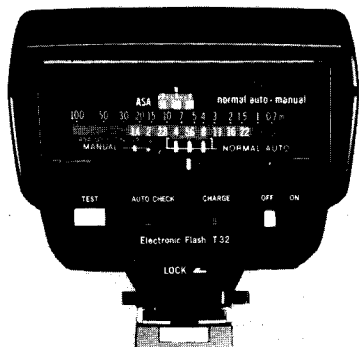


Set the ASA film speed. Slide the calculator panel to the left as far as it will go, until it clicks into place.

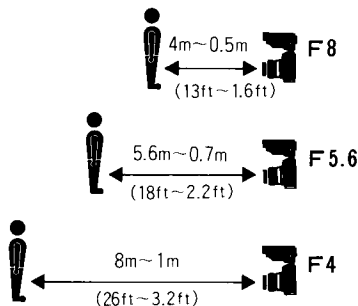


# SELECTING THE APERTURE

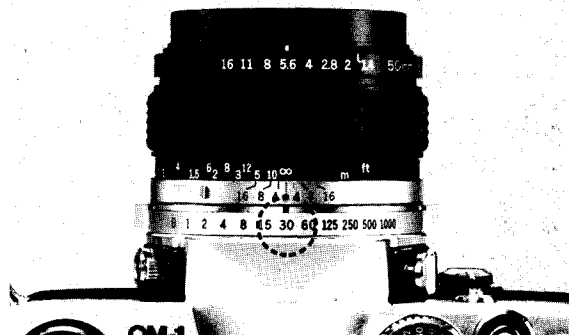
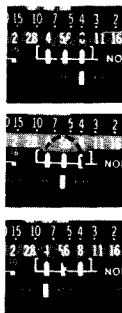
# SETTING THE APERTURE RING



Set the flash to "AUTO" (3 f/stop positions).  
Align the white line with either one of the F numbers indicated by the mark.



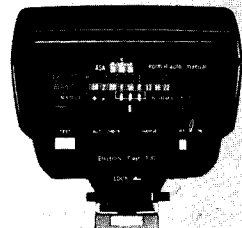
Normal Auto range (ASA 100)



Set the lens aperture at the F number indicated by the white line.

Set the shutter speed to 1/30 sec.

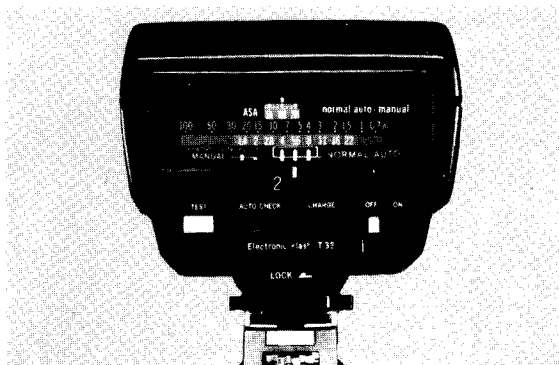
The OM-1 synchronizes with electronic flash at the shutter speed of 1/60 sec. or slower. However, to eliminate any possibility of accidental dial shifting, it is recommended you use the 1/30 sec. setting.



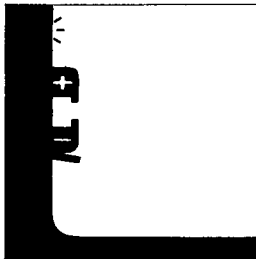
\* With the OM-10 (set at AUTO, and T32 turned ON), the shutter speed is automatically set to approx. 1/60 sec., allowing flash synchronization.

# CHECKING THE CHARGE SIGNAL

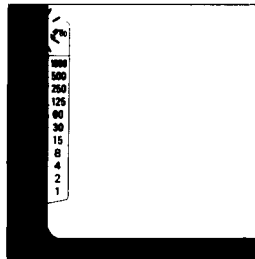
# CHECKING CORRECT AUTO FLASH



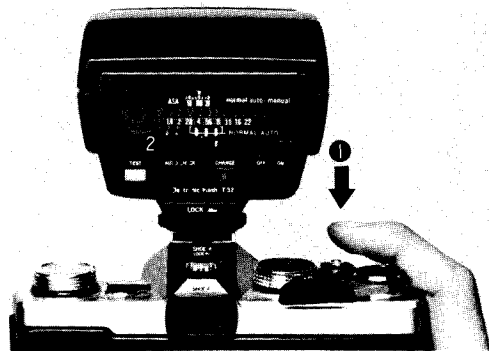
Wait until the charge signal lights on.



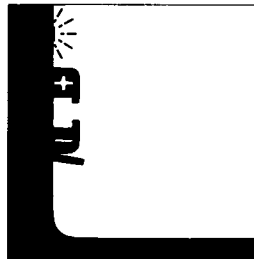
OM-1N



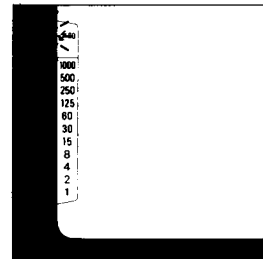
OM-10



Focus and press the shutter release.  
If the signal light blinks repeatedly, the picture was properly exposed by flash.



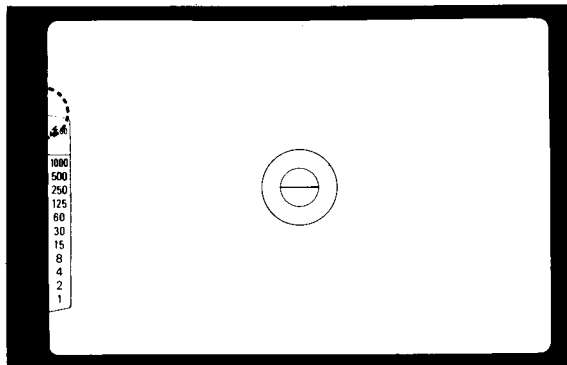
OM-1N



OM-10

# BOUNCE FLASH

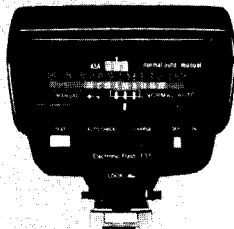
OM  
SYSTEM



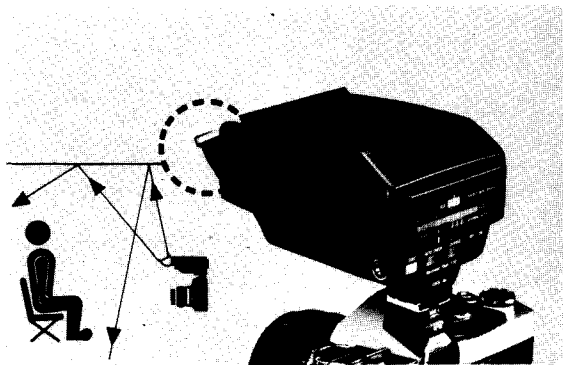
If the signal light goes out, the subject is too far. Get closer to the subject, or use a smaller F number (i.e. larger aperture).

Check whether the subject is in the NORMAL AUTO range.

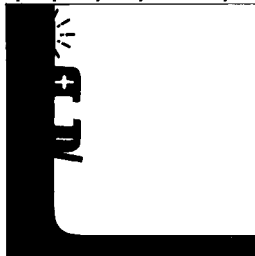
From the planned shooting position, aim the flash at the subject and push the Test Button. If the AUTO Check Lamp flickers, the subject is within the NORMAL AUTO flash operating range.



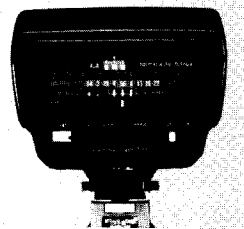
(See page 19 \* for explanation.)



If the signal light blinks repeatedly, the picture was properly exposed by flash.

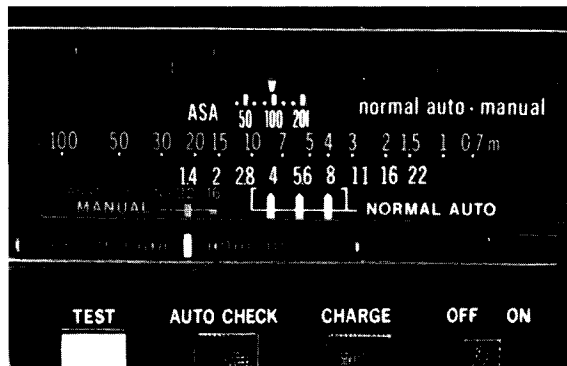


OM-1N



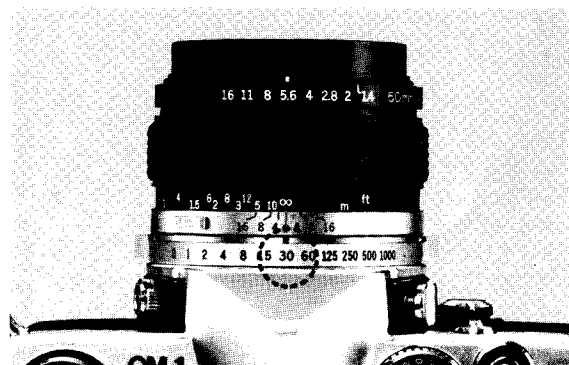
OM-1

## MANUAL FLASH WITH OM-1<sub>N</sub> (OM-1), OM-10 AND NON-OM CAMERAS



Set the flash at the "MANUAL G No. 32" position.

- \* If you want to take pictures with existing light, turn the T32 off; the charge lamp goes out and the T32 will not fire even when the capacitor is fully charged.



Set the aperture on the camera lens at the value which corresponds to the planned flash-to-subject distance as shown in the calculator panel.

Set the shutter speed to 1/30 sec.

- \* With the OM-10 (set at AUTO, and T32 turned ON), the shutter speed is automatically set to approx. 1/60 sec., allowing flash synchronization. If you want to use a shutter speed of 1/30 sec. or slower, set the mode lever to "MANUAL ADAPTER" and the Manual Adapter to 1/30 or slower.

**Turn the T32 on and press the shutter release after the charge signal light begins glowing.**

- \* The signal light goes out to indicate that full power flash has been emitted.

# CALCULATOR PANEL

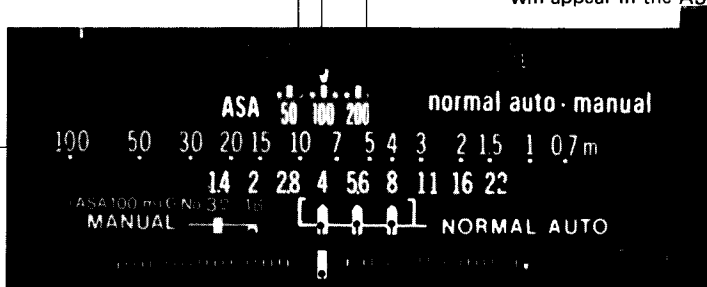
Remove the calculator panel and set the film speed under the index mark ▼ at the top of the panel.

ASA Scale ●

ASA Index Mark ●

ASA Switching Knob ●

Slide the scale in one direction or the other in order to set the ASA film speed. The number will appear in the ASA Window.



Distance Scale ●

Aperture Scale ●

MANUAL- 32 Aperture/  
Distance Table ●

Once the ASA film speed is set, you can read off the aperture corresponding to each subject distance at a glance. In bounce (and diffused) flash photography, open the lens aperture two to four F stops beyond the aperture indicated on the T32.

MANUAL GN Index ●

In manual flash photography, set the mode switching knob to 32 or 16 (ASA 100) depending on the planned subject distance and aperture.

Mode Switching Knob ●

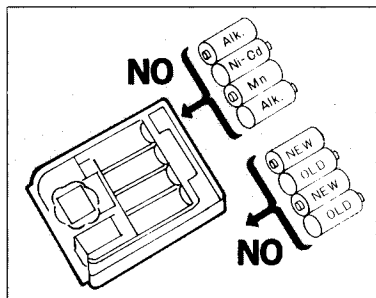
Slide the switch to MANUAL or AUTO. (There are three AUTO positions and two MANUAL positions.) Set it at the desired click-stop position to decide the mode of photography.

NORMAL AUTO Index Mark ●

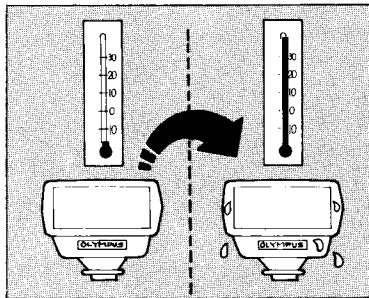
When set to the left index mark, the maximum usable flash-to-subject distance is approx. 8m (26 ft.). When set to the right index mark, the maximum distance is approx. 4m (13 ft.). When set to the middle index mark, the maximum distance is approx. 5.6m (18 ft.).

Mode Switching Knob Index Mark ●

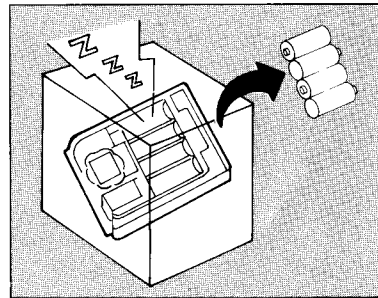
## HANDLING CARE



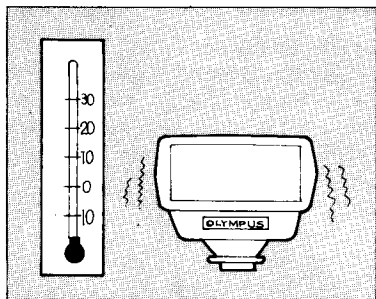
Replace all four batteries at the same time with new batteries.



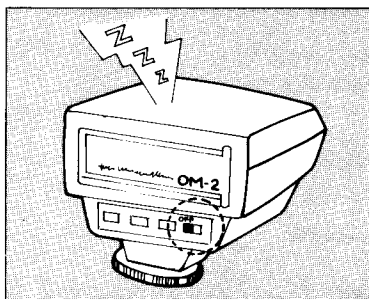
Condensation due to sudden movement from a low to a high temperature area will not allow the flash to function.



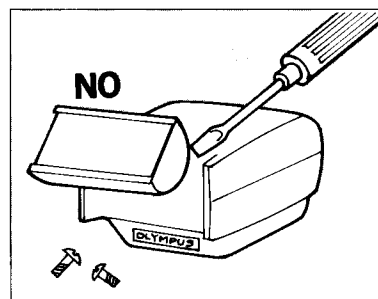
When the flash is not to be used for a long period of time, remove the batteries to prevent leakage.



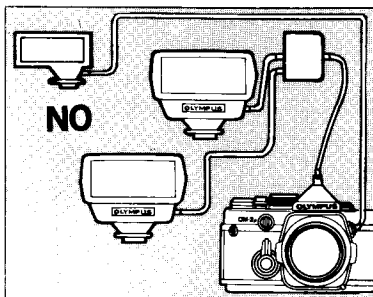
At sub-zero temperature, the batteries will not function normally. So warm them sufficiently before use.



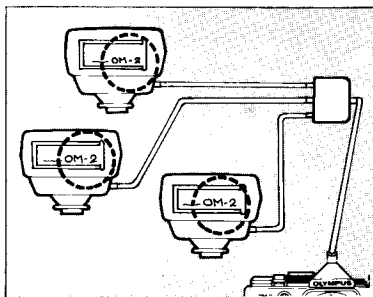
Leaving the switch ON shortens battery life.



Have repairs performed by an authorized Olympus service center. Dismantling a flash unit involves a hazard.



Do not use with a different type of flash unit.



For multiple TTL AUTO flash, set each calculator panel in the 'full automatic control by OM-2' position. ↗

- As the color temperature of the T32 is similar to that of daylight, use daylight color films.
- In TTL AUTO flash operation, do not remove the power plug when taking pictures with the AC Adapter. The flash will emit its full light output.
- In TTL AUTO flash operation, use Accessory Shoe 3 when combining the T32 with the OM-2 (not OM-2N). In MANUAL, with the same combination, set the shutter speed at 1/30 sec. or slower.
- Handle the Calculator Panel with care.
- Do not exert stronger force upon the T32 than it needs, when it is attached to or detached from the camera.
- Do not apply excessive pressure to the flash diffuser window.
- Do not hit the flash unit and do not let it strike any hard object.
- Do not keep the unit in locations where humidity is high.
- Do not leave the unit in places with temperature over 122°F (50°C).
- The charge signal lamp in the camera viewfinder can often be seen brightly just after charging.
- In the MANUAL 16 setting, the charge lamp flickers to indicate that LOW power output has been emitted.
- For multiple manual flash, set each mode switching knob to 32 (or 16); different settings will cause flash units to emit varied power output.
- If cleaning is necessary, wipe the units with a soft cloth only. Do not use cleaning solvents or other harsh chemicals.

↗ Simultaneous flash with up to nine T32s (with 4 TTL Auto Connectors) can be performed in TTL Auto mode (max. total length of all the TTL Auto Cords is 30 m or 98 ft.).



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