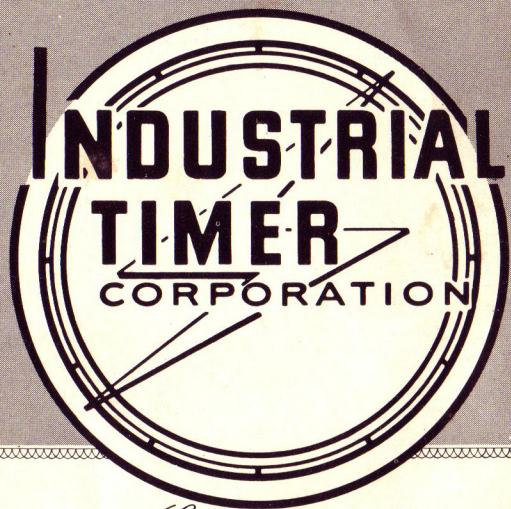


WILSONWERKS ARCHIVES

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Guarantee

All Time-O-Lite products are guaranteed against defective material and workmanship for a period of one year from date of shipment from our factory. This guarantee is limited to the repair or replacement of any parts or material which is proven to be defective. No responsibility is assumed for repairs made to our Time-O-Lite products outside our factory. Units requiring service should be shipped, prepaid, to our Repair Department, 1407 McCarter Highway, Newark New Jersey. Please enclose a letter explaining the nature of the trouble to expedite repair. A repaired unit carries the same guarantee as a new one.

INSTRUCTION

TIME--LITE

"Known The World Over"

MANUAL



INDUSTRIAL TIMER CORPORATION

1407 McCARTER HIGHWAY • NEWARK, N. J.

You are now the proud owner of a
TIME-O-LITE, *known the world over*
as a fine, precision instrument.

Time-O-Lites are used and recognized throughout the world because they have proved themselves to be lasting, indispensable aids for better photographic processing. Similar timers, which we manufacture, are used by the leading firms in every industry for hundreds of applications such as electronic tube control, blue printing, photo-engraving, electroplat-

ing, induction heating, dough mixing, chemical agitation and plastic molding.

Your Time-O-Lite is designed to help you make better photographic prints without a chance of spoiling them due to under or over exposure. It will save you time, money and paper. You'll find it easier to get good prints because your Time-O-Lite as-

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IT'S EASY TO USE A TIME-O-LITE

This instruction manual has been prepared to help you use your Time-O-Lite correctly and efficiently. The instructions are simple and easy to follow. Please read them carefully so that you can get the maximum value and pleasure from the precision instrument you now possess.

ures you of split-second accuracy time after time. All this, with the least amount of attention and effort.

Your new Time-O-Lite is the result of 20 years of experience, research and improvement in timing control devices. It is designed for those particular people who want the finest in photographic equipment. It is a durable, industrial-type mechanism built to withstand hard usage for years. Depend on your Time-O-

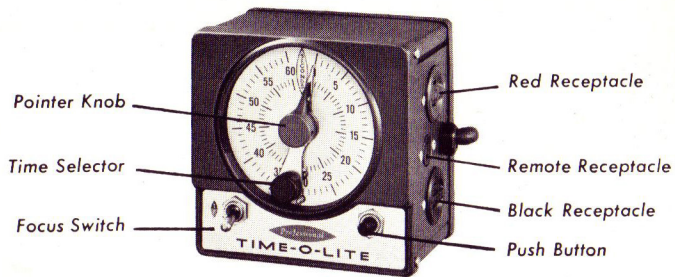
Lite for unquestioned accuracy and long life.

You'll be interested in other Time-O-Lite products. No matter which one you have now, read about other models in this manual. Each one is designed to do a specific photo-processing control job for you. Next time you go to your camera store, ask your dealer to show you other Time-O-Lite products. He'll help you plan a really modern darkroom.

INDUSTRIAL TIMER CORPORATION

1407 McCARTER HWY. • NEWARK, N. J.

PROFESSIONAL MODEL P-59



Your new Professional P-59 is specifically designed to make your darkroom work easier. The P-59 is a dependable automatic time control mechanism, built to exacting industrial specifications. Now you can be sure of positive accuracy in process control. You'll find that it saves you time and valuable photographic paper.

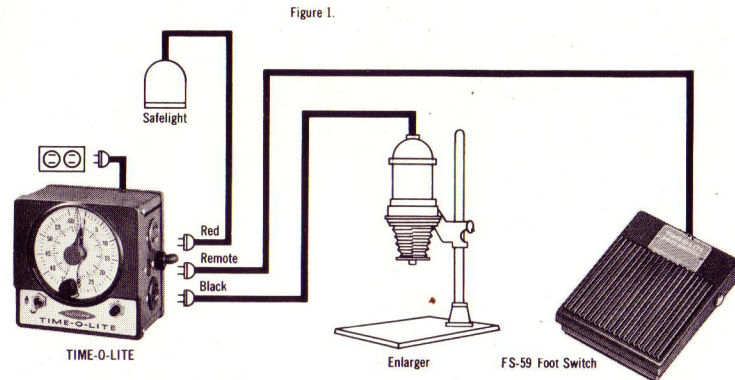
The Time-O-Lite Professional is a versatile instrument. It may be used to control the enlarger with a foot-switch, to control your enlarger alone, to operate safelites automatically with the enlarger, and is ideal for operating a contact printer. It operates in any position and may be hung on a wall by keyholes located in the back of the case.

The P-59 will operate accurately only if your power conforms with the

specifications on the name plate attached to the back of the case.

I. FOR USE WITH THE ENLARGER

- Insert plug of enlarger cord in BLACK receptacle of the P-59, the timer now controls all current going to the enlarger.
- Insert plug on cord of P-59 into wall receptacle for power supply.
- To focus negative operate toggle switch to FOCUS position. This turns light on in enlarger without starting the timing mechanism.
- Plug safelite into RED receptacle. Timer now turns safelite out automatically when enlarging or focusing.



- When focusing is completed operate toggle switch to TIME position.
- Set time selector to the number of seconds (time interval) required. P-59 is now ready to work.
- Press Push button. TIME-O-LITE will do the rest automatically.

II. FOR USE WITH ENLARGER AND FOOTSWITCH

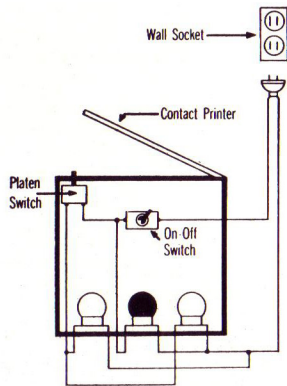
- Insert footswitch plug into receptacle marked REMOTE.
- Insert enlarger plug into timer (receptacle marked ENLARGER).
- Insert safelite plug into timer (receptacle marked SAFELITE).

- Set to desired time cycle.
- Start timer by momentarily stepping on footswitch. Timer starts enlarger goes on, safelites go out. Operation reverses at end of time cycle.

III. FOR USE WITH A CONTACT PRINTER

- Minor changes in wiring must be made in a contact printer when it is to be controlled with the TIME-O-LITE P-59. Figure #2 shows the common wiring of the average contact printer. The changed wiring is shown in figure #3.
- Connect wires from platen or momentary contact switch to special

Figure 2

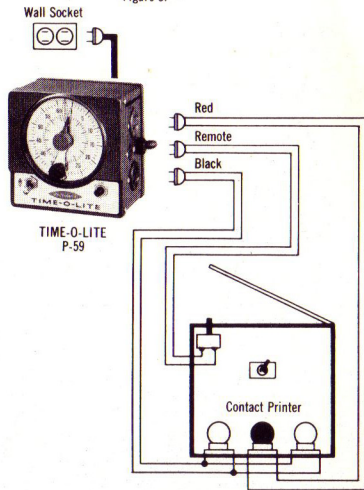


small plug, and insert plug into small receptacle on P-59.

- c. Connect wires from white lamps to a regular plug. Insert plug into BLACK receptacle on P-59.
- d. Connect wires from RED lamp to a plug and insert into RED receptacle.
- e. To focus or dodge with white lamps, operate toggle switch to FOCUS position.
- g. When focus is complete, operate toggle switch to TIME position.

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Figure 3.



- h. Set point on P-59 to seconds desired for exposure.
- i. When platen is closed P-59 will time exposure automatically.

IV. GENERAL

- a. Toggle Switch — The toggle switch when operated into the down or FOCUS position permits power to flow continually to the enlarger or controlled light without operating the timer. When operated into the up or TIME position the timer is ready to be operated by either the

push button or footswitch. When the switch is in focus position the safelites go out, when switch is time position the safelites go out when timing mechanism starts.

b. DIAL AND SETTING ARMS —

The dial has two scales with clear easy to read divisions and large figures. The outer scale is used for setting the time interval. The chrome pointer is moved to the desired time setting on this scale.

The inner scale is provided to accurately determine elapsed time. The red pointer will move counterclockwise from the set point to zero as the time interval elapses. The controlled light goes out when the red pointer reaches zero.

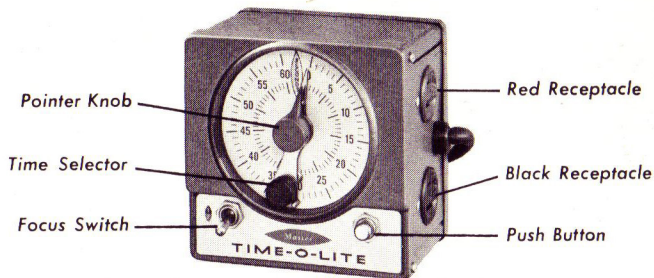
- c. PUSH BUTTON—The push button is used to start the time interval.

The instant it is pressed the time interval begins and the light goes on. When the safelite is plugged into the red receptacle the safelite will go off when the enlarger light goes on. Pressing the button during the time interval will not affect the operation. To repeat the interval one need only to press the button, one time or a thousand.

- d. Operation of the starting method, such as the push button, footswitch, or platen head starts the TIME-O-LITE, which automatically starts the time of exposure.
- e. The Time-O-Lite P-59 is a precise timing instrument, and while it is of unusually rugged construction and may be operated in any position, it should not be mishandled.
- f. Key holes are provided in the back of the case for wall mounting.

7

MASTER MODEL M-59



You've made an investment in accuracy with your Time-O-Lite Master. It is designed and built for one thing—to give you a dependable, automatic means of controlling exposure time. With a Time-O-Lite, split second timing is a simple matter. You'll find that it saves you time, trouble, and valuable photographic paper.

Your Time-O-Lite will operate accurately only if your power source conforms with the specifications on the nameplate attached to the back of the case.

I. FOR USE WITH THE ENLARGER

- Insert plug of enlarger cord in black receptacle of M-59. Timer now controls all current going to the enlarger.

- Insert plug on cord of M-59 into wall socket for power supply.
- Insert darkroom safelite plug into red receptacle of timer, timer now controls safelite.
- To focus—operate toggle switch to FOCUS position. This turns light on in enlarger, and turns darkroom safelites off without starting the timing mechanism. When focusing is completed operate toggle switch to TIME position.
- Set time selector to time required. Time-O-Lite is now ready to work.
- Press Push button, Time-O-Lite will do the rest automatically.

II. GENERAL

- Toggle Switch**—The toggle switch when operated into the down or FOCUS position permits power to

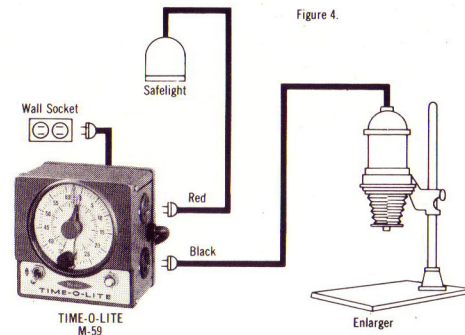
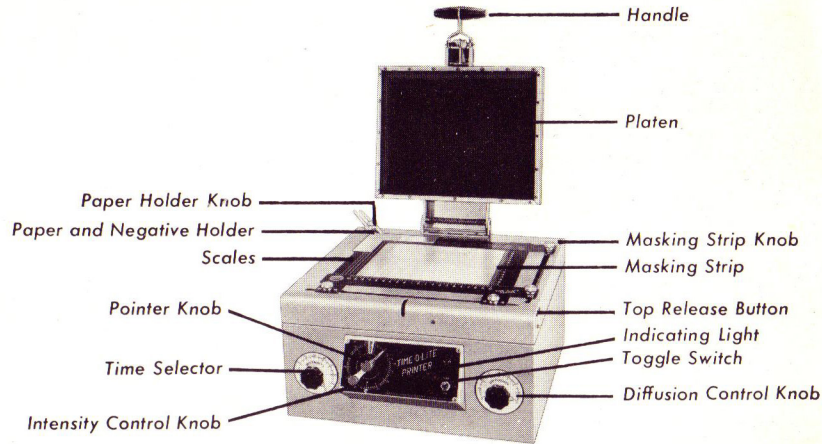


Figure 4.

- DIAL AND SETTING ARMS**—The dial has two scales with large dial divisions and easy to read figures. The outer scale is used for setting the time interval. The long silver pointer should be moved to the desired time setting on this dial. The inner scale is provided to permit accurate determination of the elapsed time. The red pointer will move counter clockwise from the set point to zero as the time interval elapses. The light goes out when the red pointer reaches zero.
- PUSH BUTTON**—The PUSH button is used to start the time interval. The instant it is pressed the time interval begins. The enlarger light goes on and the darkroom safelites go off. At the end of the interval the enlarger light turns off, and the darkroom safelites go on. Pressing the button during the time interval will not interrupt the interval. To repeat the time interval one only has to press the button.
- The Time-O-Lite Master M-59 is a precise time measuring instrument, and while it is of unusually rugged construction it should not be mishandled.
- The M-59 may be operated in any position, key holes are provided in the back of the case for wall mounting.

CONTACT PRINTER MODEL 80



8" x 10" Printing Area

Your new TIME-O-LITE PRINTER is designed to help you make better photographic prints without a chance of spoiling them due to under or over-exposure. You will find it saves you time, trouble, and photographic paper. You'll find it easier to get good prints because your TIME-O-LITE PRINTER assures you split-second accuracy time after time, all this with the least amount of attention and effort.

INSTRUCTIONS

- a. Your TIME-O-LITE PRINTER

will operate satisfactorily only if your current and voltage supply conforms to the specifications on the name plate attached to the back of the case.

- b. Insert the line cord of the TIME-O-LITE PRINTER into wall receptacle for current supply. Make sure that the line cord plug is held tightly in the receptacle.

OPERATION

- I. Three-Position Toggle Switch

- a. CENTER POSITION (OFF) all

current going to the printer is disconnected.

- b. DOWN POSITION (ON) white printer lights are on continuously.
c. UP POSITION (TIME) red safe-light is on and the timer circuit is connected, ready for the operation of the white printer lights.

II. Timer Setting and Operation

- a. Set the time selector to the number of seconds required (Time interval). TIME-O-LITE PRINTER is ready to work.
b. Grasp the handle and bring the platen down until the platen catch is operated; this automatically operates the platen switch, turns the white lights on, operates the timer, and turns on the indicating pilot light. The pointed knob will move counter-clockwise from the set point to zero as the time interval elapses.
c. When the timed interval is completed the white lights and the indicating pilot light go off. Pointer knob moves past zero point and stops.
d. Lift the platen handle; this releases the platen catch. When the platen catch is released the timer resets and is ready for another operation.

III. Masking Strips and Scales

- a. TIME-O-LITE PRINTER is pro-

vided with four masking strips and two calibrated scales.

- b. The masking strips although factory adjusted may be realigned by loosening the two screws on either side of the masking strip knobs.
c. Line the masking strips up with the sides of the printing glass and retighten screws.
d. The scales are calibrated at one-half scale in inches.

IV. Paper and Negative Holder

- a. Standard equipment on the TIME-O-LITE PRINTER is the paper and negative holder and may be used in the following manner when setting up for printing.
b. Set the masking strips for the size picture required.
c. Set the P&N holder for the size border required.
d. Insert the negative under the P&N holder and on top of the masking strips. The tension of the P&N holder will hold the negative in position.
e. If a large number of photographs are required from the same negative, a piece of Scotch tape in the lower right-hand corner of the negative will hold it tight indefinitely.

- f. Photographic paper is placed on top of the negative and should butt up square inside the P&N holder.

V. Installation of Lamps

- a. With the platen head closed, press the two Top Release Buttons located on each side of the top half of the TIME-O-LITE PRINTER case.
- b. Swing the entire top open; with the top open the platen head is locked and cannot be released until the case is again closed tightly.
- c. With the case opened, the Opal Glass is removed by inserting a finger in the cutout provided in the rear of the inner lightbox. Lamps may then easily be removed or installed.

VI. Type and Size Lamp Recommended

White or frosted incandescent lights (Four). 25, 40 or 60-watt lamps ONLY.

VII. Intensity Control

The intensity control knob on the left side of the timer-housing controls the amount of current going into the lamps of your printer. It controls the Kelvin temperature of the lamps and allows you to use the light intensity best suited to the negative!

VIII. Diffusion Control

The diffusion knob on the right of the timer-housing raises or lowers the Opal Diffusing Glass at the touch of a finger. It does away with "shelving" and allows you to diffust dense spots on the negative out of the final print.

IX. General Instructions

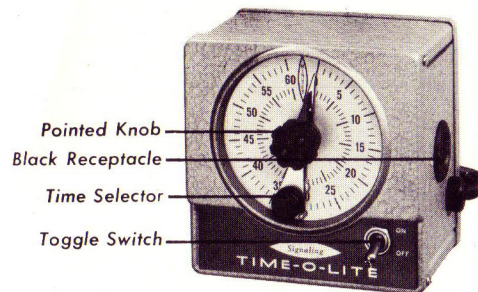
In the event of any damage to any of the parts of your TIME-O-LITE PRINTER it is not necessary to send the entire printer back for repair or replacement; only send for the required part which may be easily installed.

X. Removal of the Timer

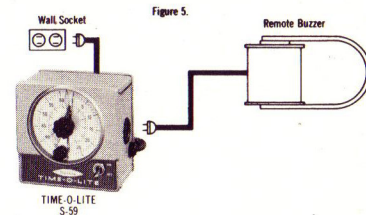
- Remove the four screws holding the timer to the front of the case.
- Unscrew the connections on the terminal strip attached to the inner light box.
- Wire together terminals 1 to 2 and 3 to 4.

The TIME-O-LITE PRINTER will then operate without the use of the timer.

- When the platen head is closed the white lights go on.
- When the platen head is opened the lights will go off.



- Pointed Knob
- Black Receptacle
- Time Selector
- Toggle Switch



Here's a timer that will assure you of perfect accuracy for years to come. Set it for intervals from 1 to 60 minutes; the moment the time is up a buzzer sounds until you turn it off. A remote signal, such as a buzzer, bell, or a light can be plugged into the receptacle on the side of the timer, you can then leave the darkroom and still be informed of the end of the time cycle, you can't forget it . . . Your Signaling Time-O-Lite is versatile—in photography, industrial, or household application. It can be used anywhere that accurate timing is essential—photo developing, color separation processing, sun lamp, X-Ray and diathermy timing, and countless other applications.

INSTRUCTIONS

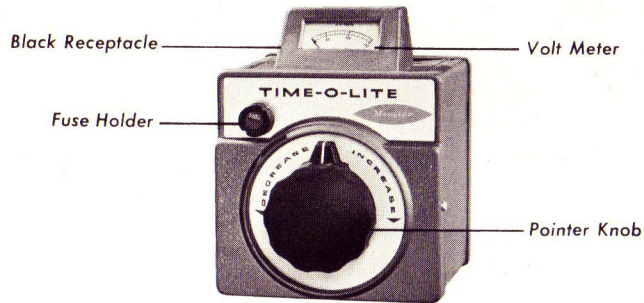
- Insert linecord of Signaling Time-O-Lite into wall outlet.

- Turn Black pointer knob to time required.
- Operate toggle switch to ON position, time cycle will start.
- At the end of the time cycle the buzzer sounds until manually turned off by operating toggle switch to OFF position, setting the black knob for another time cycle will also turn the buzzer off.
- An adjustable back stop is provided for rapid re-setting in total darkness. To set the back stop, grasp the silver selector and set to the desired time interval.

REMOTE SIGNAL

- Plug light cord, buzzer or bell into receptacle on the side of the S-59.
- Remote signal will operate when time interval ends.
- To stop signal operate toggle switch to OFF, or set timer to new time cycle.

MONITOR



Your Time-O-Lite Monitor is a sensitive and accurate instrument; you will find that it has a wealth of applications in and out of the darkroom. The Monitor provides a visual and manual control of voltage to an enlarger or printer. Maintenance of Kelvin temperature is of the utmost importance in the new color techniques, the Monitor will accurately perform this function. The unit can be used in conjunction with a timer, thereby providing accurate timing as well as precise voltage control. The Monitor regulates voltage from as little as 6

volts to 135 volts. As a bulb ages it darkens, by using the Monitor you can increase your voltage thereby increasing the bulb brightness.

The Monitor will operate only if power rating is normally 115 volts 60 cycle AC (Common House current).

INSTRUCTIONS

- Plug linecord of Monitor into wall outlet.
- Plug enlarger into receptacle on top of Monitor.

- Operate large knob on front of Monitor until Kelvin temperature is correct or desired voltage registers on meter.

- Operate toggle switch to Time. Timer is ready to operate with proper voltage going to enlarger.

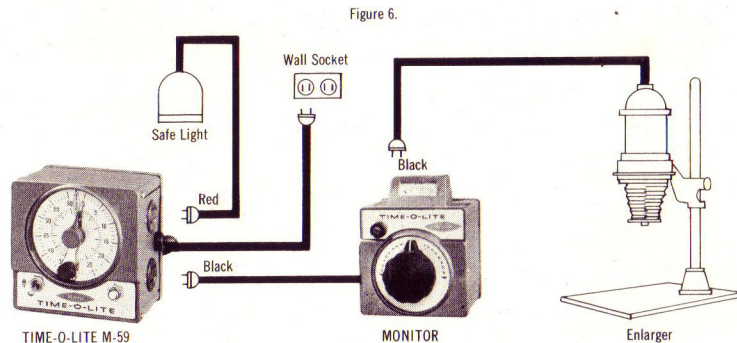
NOTE: Do not plug timer into Monitor.

FOR USE WITH A TIMER

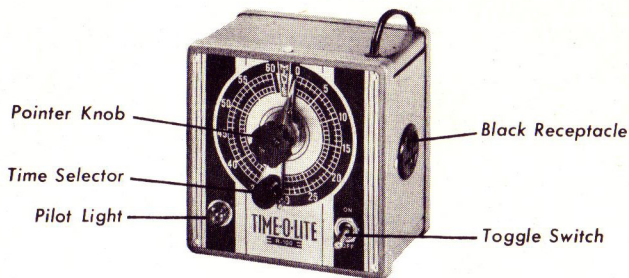
- Plug timer into wall socket.
- Plug Monitor into Black receptacle on side of timer.
- Operate toggle switch to focus.
- Adjust to desired voltage by turning large knob on front of Monitor.

GENERAL

The Monitor is equipped with a protective fuse. This fuse will burn out if the load operated by the Monitor exceeds 500 watts. It is recommended that the Monitor should only be used with an INTERMITTENT 500 watt load.



R-100



The R-100 Timer was developed to prevent the scorching of the canvas belt on the Pako and other types of canvas belt dryers. This is accomplished by continuing to operate the drum until the unit has had time to cool.

INSTALLATION INSTRUCTIONS GAS HEATED DRUM UNIT

1. Plug line cord of R-100 Timer into 115 volt, 60 cycle AC line only.
2. Plug line cord from machine into black receptacle on timer.
3. The switch on dryer previously used to turn drive motor on and

INSTALLATION INSTRUCTIONS ELECTRICALLY HEATED DRUM UNIT

1. Plug line cord of R-100 Timer into 115 volt, 60 cycle AC line only.
2. Wire to dryer motor as per drawing figure #1.
3. The switch on dryer previously used to turn drive motor on and

off should be turned to ON position, and left permanently.

4. Timer switch now controls the operation of the dryer per the manufacturer's general operation instructions.

off should be turned to ON position, and left permanently.

4. Timer switch now controls the operation of the dryer per the manufacturer's general operation instructions.

GENERAL OPERATION INSTRUCTIONS

START

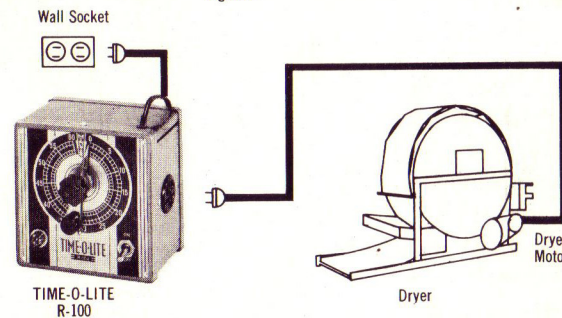
1. With the timer pointer at zero and time toggle switch off; turn timer toggle switch to ON posi-

tion, the dryer motor starts and runs continuously.

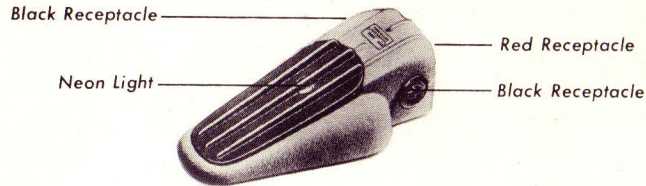
STOPPING DRYER WHEN DRUM IS HEATED

1. Turn timer pointer up to time cycle required (a minimum of 45 minutes)
2. Operate toggle switch to OFF position.
3. Note pilot light is lighted, indicating that the timer is operating and will time out at the end of the present time. At this point the belt will stop.

Figure 7



FOOT SWITCH MODEL FS - 30



Your Time-O-Lite Footswitch Model FS-30 provides a high capacity (3000 watts AC only) switch to control motors up to one horsepower, photographic apparatus, flood lights, X-Ray machines, drill presses, dental lathes, and hundreds of other applications. For darkroom use, there's an unusual feature—a tiny neon light in the pedal, so that there's no fumbling around the floor to find the footswitch. "Just step on the light."

With a Time-O-Lite Footswitch, controlling all kinds of electric equipment is almost effortless. And it leaves both hands free for other work.

INSTRUCTION

1. **For use with enlarger**
 - a. Insert heavy duty line cord from the Time-O-Lite footswitch into a convenient 115 Volt AC wall outlet.
 - b. Insert line cord of the enlarger into either one of the BLACK receptacles on the side of the Time-O-Lite footswitch.

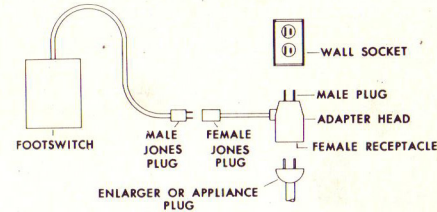
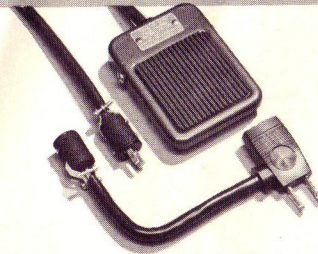
- c. On most enlargers, a control switch is provided; this switch must be in the "On" position at all times.
- d. The general illumination safelight in the darkroom can be turned off while the exposure is being made by inserting the safelight line cord into the RED receptacle of the Time-O-Lite foot switch.

GENERAL APPLICATION

Any electric appliance or device which does not draw more than 3000 Watts can be controlled by the Model FS-30 Foot Switch.

- a. Insert heavy duty line cord of Model FS-30 Foot Switch into any 115 Volt AC outlet.
- b. Insert line cord of appliance or motor into either of the BLACK receptacles.
- c. The red receptacles are "ON" or "Hot" when the pedal is in the normal or "Up" position. This red receptacle will handle 1500 Watts, and can be used to keep motors or appliances "On", or operating until the Foot Switch is operated.

FS-59 FOOTSWITCH AND ADAPTER



The FS-59 Footswitch is designed to either remotely control the P-59 Timer, or through the use of a special adapter, to control an enlarger or other appliance directly. The FS-59 Footswitch is Underwriters rated for a 5 ampere load when used with the adapter.

INSTRUCTIONS

FOR USE WITH TIMER...

1. Insert special plug into receptacle marked REMOTE.
2. Set timer to exposure time desired.
3. Step on footswitch to start timed exposure.

NOTE: Only a momentary contact is necessary to start the timer; Step on footswitch, take foot off, the timer

does the rest. Dodging or burning in can be done at this time without watching the clock, and with both hands...

FOR USE WITH ADAPTER...

1. Plug small footswitch into female plug on adapter.
2. Plug enlarger into female receptacle on head of adapter.
3. Now plug adapter into wall socket.

NOTE: To operate enlarger or appliance you now have to maintain a sustained pressure on footswitch for the length of time required...

CAUTION... The FS-59 Footswitch has a load rating of 5 amps. severe damage to the footswitch will occur if this is exceeded.

