Hi - Low
switch is 12v - 13v
Low - Hi

INTERMATIC®

MALIBU®

Model: ML200TPW & ML300TPW

OUTDOOR LOW VOLTAGE TRANSFORMER WITH PHOTO CONTROL
INSTALLATION AND OPERATING INSTRUCTIONS

FOR USE WITH OUTDOOR LOW VOLTAGE LANDSCAPE LIGHTING
AND UL OR CSA APPROVED SUBMERSIBLE FIXTURES.
THIS TRANSFORMER SHOULD NOT BE USED WITH SWIMMING POOLS AND/OR SPAS.

1. Attach power cable to bottom of transformer with two terminal screws provided. See **figure 1.**
2. Mount raintight transformer within 1 foot (30 cm) of a standard grounded electrical outlet (120 volt only) with a weatherproof while in use, covered GFCI. (Test regularly.) See **figure 2.** This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not repair, or tamper with, this cord or plug. Install transformer not less than 1 foot (30 cm) above ground with cable terminals down and not within 10 ft. of inside walls of Pool or Spa.
3. It will be necessary to cover the photoelectric eye at this time so it does not see light. A piece of electricl tape will work for this purpose. See **figure 3.** Turn manual switch to "ON" or rotate dial so "ON" tripper passes time line indicator. See **figure 4.**
4. Stretch power cable to full length. Route power cable where lights are desired.
5. **DO NOT USE EXTENSION CORDS.**
   DO NOT SUBMERGE TRANSFORMER. DO NOT CONNECT TWO OR MORE POWER SUPPLIES IN PARALLEL
   DO NOT USE WITH A DIMMER.

Combination photo control and timer on/off

1. Your lights can be set to go on or off in a variety of ways by utilizing both the photo control and the timer. First, make certain that the unit is mounted so that the photo eye is exposed only to natural daylight. For best results. mount transformer on an unshaded surface protected from artificial lights. During daylight hours, it will be necessary to cover the photo eye with something like electrical tape to simulate darkness or the unit will remain off. This unit is supplied with a light deflecting shield, see **figure** 3, which may be rotated to compensate for unusual light conditions.The shield is used by snapping on to the threaded part of the photo eye. To override the photo control and turn the lights off at a specific time during hours of darkness, insert one of the black **"OFF"** trippers next to the time you want the the lights to shut **"OFF".** (See **figure** 4.) If you want the lights to turn back on before daylight, place one of the **ON** (red) trippers next to the time you want the lights to turn back on. The lights will remain on until the photo control turns them "OFF" at dawn.
2. Once these steps have been completed, turn the timer dial clockwise one or more complete revolutions until the present time-of-day is adjacent to the time arrow on the dial.
3. Please note that an **"ON"** (red) tripper must be used to activate the photo control prior to darkness; we suggest setting it at the noon position. The light will then turn on momentarily each day at noon which indicates that the photo control is working properly. They will then turn off and come back on at dusk. Remove tape from the photo control eye once testing is completed.

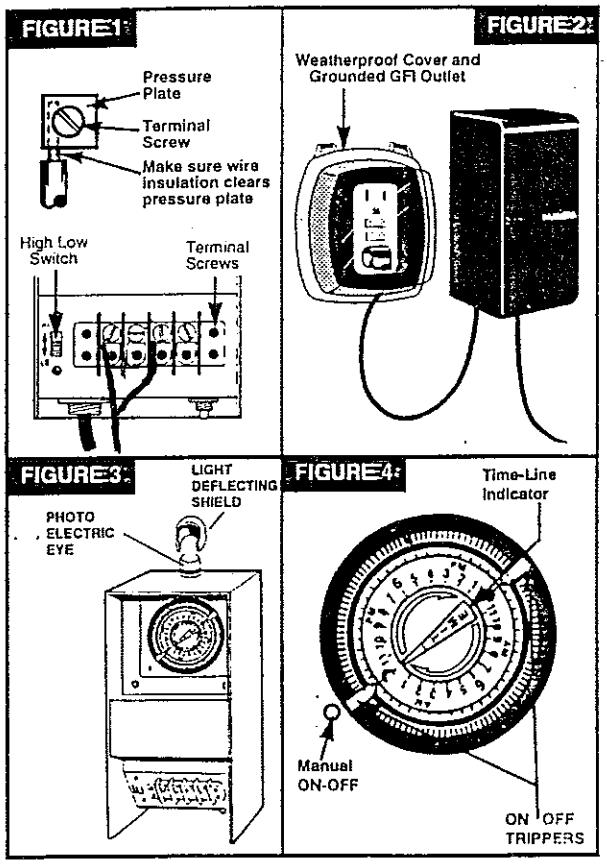
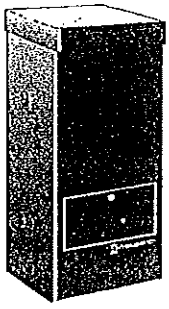


Photo control on/off(On at dark/off at light)

Make certain that unit is mounted so that photo eye is exposed only to natural daylight. For best results, mount transformer on an unshaded surface protected from artificial lights. For testing during daylight hours, cover the photo eye with a piece of electrical tape to simulate darkness or the unit will remain off. This unit is supplied with a light deflecting shield, see **figure** 3, which may be rotated to compensate unusual light conditions. Shield is used by snapping on to the photo control.Turn manual switch to **"ON".** Remove all trippers from timer and unit will come on each night at dusk and off each morning at dawn; the exact times will vary depending on the amount of light that is "seen" by the photo eye. Remove tape after testing.



ML200TW*
(with ground shield)
(con pantalla protectora)
(avec écran protecteur)

ML300TW*
(with ground shield)
(con pantalla protectora)
(avec écran protecteur)

Ⓐ Lay the transformer down on a flat, stable surface and raise the front access door **(diagram 3)**.
Ⓑ Thread the pre-stripped cable(s) **(diagram 1)** up through the tension retaining loop **(diagram 4)** and follow exact wiring instructions described in gray shaded box under diagrams 1 & 2. Attach 1 wire to load 1A terminal, attach other wire to COM (common) terminal **(diagram 4)**.
Ⓒ Follow steps 2, 3, 4 and 5 below.

Ⓐ Coloque el transformador sobre una superficie plana y levante la puerta frontal de acceso **(diagrama 3)**.
Ⓑ Pase el/los cable(s) pelado(s) de antemano **(diagrama 1)** a través del bucle de retención **(diagrama 4)** y siga las instrucciones de cableado tal y como se describen en el recuadro de fondo gris ubicado debajo de los diagramas 1 y 2. Conecte uno de los cables al terminal de carga 1A, conecte otro al terminal COM (común) **(diagrama 4)**.
Ⓒ Siga los pasos 2, 3, 4 y 5 listados a continuación.

Ⓐ Placer le transformateur sur une surface plane et stable, puis soulever la porte d'accès avant **(schéma 3)**.
Ⓑ Acheminer le(s) câble(s) pré-dénudé(s) **(schéma 1)** dans la boucle de retenue de tension **(schéma 4)** et suivre exactement les instructions de câblage de la boîte ombragéeapparaissant sous les schémas 1 et 2. Fixer un fil à la borne de charge 1A et l'autre à la borne COM (commune) **(schéma 4)**.
Ⓒ Poursuivre avec les étapes 2, 3, 4 et 5 ci-dessous.

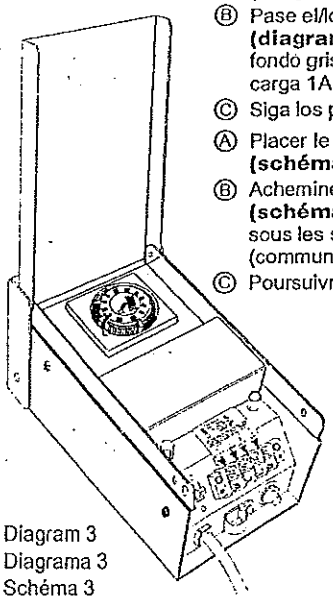


Diagram 3
Diagrama 3
Schéma 3

Additional cable runs can be attached to load 1B terminal and the remaining COM terminal. (Optional) Up to 4 cables (8 wires) total can be connected to the transformer by fastening 2 cable ends under each of the 4 terminal screws. Make sure total wattage of all runs does not exceed power pack wattage output capacity. For best lighting performance, it is recommended that long runs (over 50') are split into shorter lengths and attached directly to the transformer.

Se pueden conectar cables adicionales al terminal de alimentación 1B y al otro terminal COM. (Opcional) Se puede conectar al transformador un total de hasta 4 cables (8 alambres); para ello sujete los extremos de 2 cables a cada uno de los 4 tornillos de terminal. Para obtener la mejor iluminación posible, se recomienda dividir los cables largos (de más de 15 metros [50 pies] en tramos más cortos y conectarlos directamente al transformador.

Vous pouvez ajouter d'autes longueurs de câble à la borne de charge 1B et à l'autre borne COM. (facultatif) Vous pouvez connecter jusqu'à 4 câbles (8 fils) au transformateur en attachant 2 extrémités de câble sous chacune des 4 vis de bornes. Pour obtenir un meilleur éclairage, il est recommandé de séparer les longs parcours de câble (plus de 50 pieds) en segments plus courts et de les raccorder directement au transformateur.

HI-LO switch changes transformer from 12 volts to 13 volts. *The HI position should only be used when the first light fixture is at least 50' from the transformer. (Improper use will shorten bulb life.)*

Interruptor "HI-LO" cambia el transformador de 12 a 13 voltios. *El transformador sólo deberá utilizarse en la posición "HI" si la primera lámpara se encuentra a 50 pies (15.24 m) de éste como mínimo. (El uso inadecuado del transformador puede acortar la duración de la bombilla.)*

Interrupteur HI-LO fait passer le transformateur de 12 volts à 13 volts. *N'utilisez la position HI que lorsque la première lampe est à au moins 50' du transformateur. (Un mauvais usage réduira le cycle de vie de l'ampoule.)*

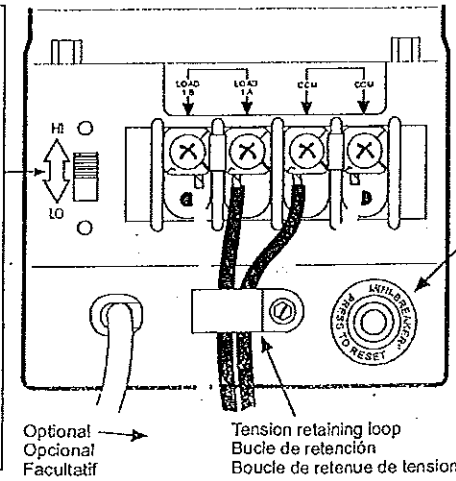


Diagram 4
Diagrama 4
Schéma 4

Tighten screws securely
Ajuste bien los tornillos
Bien resserrer les vis

RESET SWITCH–Press to reset transformer if lights go out (See troubleshooting)

Interruptor REINICIALIZAR–Presiónelo para reinicializar el transformador si las luces se apagan. (Véase la guía de resolución de problemas).

INTERRUPTEUR DE RÉENCLENCHEMENT–Appuyez pour réenclencher le transformateur si les lumières s'éteignent. (Voir dépannage).