

INSTRUCTION – THERMAL CONTROL

Subject: P/N: TLP3046- series **Document No:** TN03046

Thermal Control Revision: A

Date: APR-16-2018

RECORD OF REVISIONS

When revised document changed in its entirety.

REV	DATE	DESCRIPTION	BY	CKD
Α	APR-16-2018	Initial release	DNE	GDO

Current revision approval:	

1. PURPOSE

The purpose of this instruction is to provide supplemental installation and/or replacement guidance of subject part listed above.

2. DESCRIPTION

This series of controllers are configured with preset (not adjustable) creep action slow break circuit controller which limits operation of electrical resistance heating pads to ambient air temperatures below controller set point, refer to Figures 1, 2, and 3.

3. RATINGS

Maximum controllable circuit current capacity: 2.0-amps at 250-volts.

P/N: TLP3046-05: Set point +5°C / 41°F (closed below / open above) ±3°C / 5.4°F.

P/N: TLP3046-10: Set point +10°C / 50°F (closed below / open above), ±3°C / 5.4°F.

4. INSTALLATION

Technicians and users of this instruction should be familiar with kit specific instructions and/or wire diagram applicable to installation or repair, Installation Guide TNG1000, ICA TCA1000, and Connector Instruction TN02793.

- a. New installation: Locate thermal control with reference to kit specific instructions and reference to Figures 1, 2, and 3.
- b. Replacement installation: Remove old part by disconnecting from cable assembly and/or cutting from existing wiring, and replace accordingly. Replacement installation may require inline splicing, use corresponding connector as needed and/or approved splice.
- a. Secure thermal control with existing wiring using cable-tie and/or lace, or locate on structure with cable anchor and appropriate cable-tie, Figures 1, 2, and 3.
- b. Before connecting power complete functional system check with ohmmeter, refer to kit specific instructions and or Installation Guide TNG1000.

5. TEST

There are no authorized repair procedures for this series of controllers, only replacement.

Test by cooling thermal control to below freezing, 0°C / 32°F, using icepack, circuit cooler spray, or other appropriate means. Depending on method used cooling process may take several minutes. **Do Not** submerse in water. Refer to Installation Guide TNG1000 and ICA TCA1000.

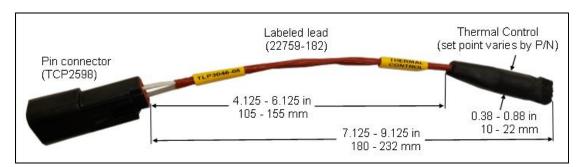


Figure 1. Example of TLP3046-05 thermal control configured with pin connector.

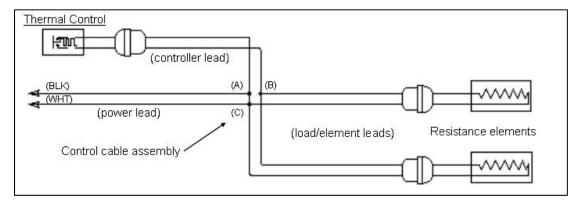


Figure 2. Example of typical control circuit. Thermal control is to be connected to control cable assembly and located 6 - 18 in / 15 - 45 cm from element(s).

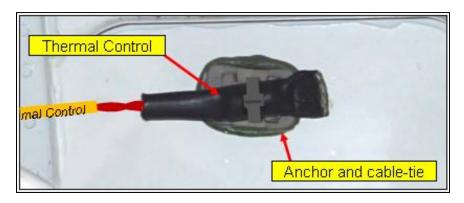


Figure 3. Example of thermal control located on structure with cable anchor TU02782, refer to Click Bond Kit Instruction TN02782.

***** NOTHING FOLLOWS *****