

# INTERNAL COOLDOME™ ELECTRICAL REPLACEMENT KIT # KT-CD-FR1 by Dotworkz, Inc.



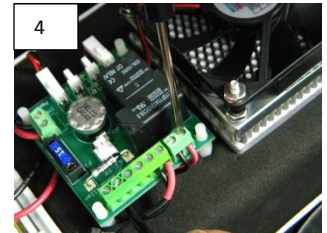
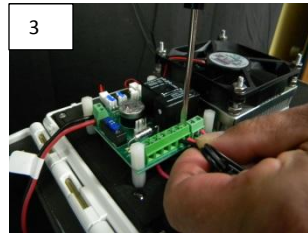
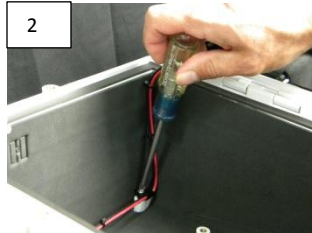
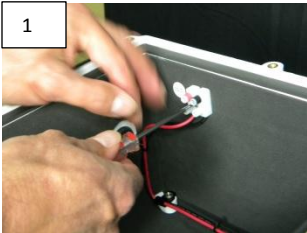
## Recommended Tools



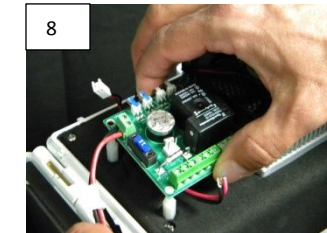
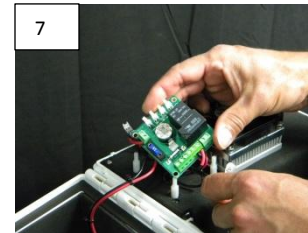
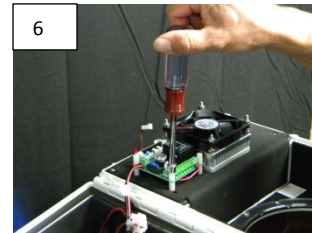
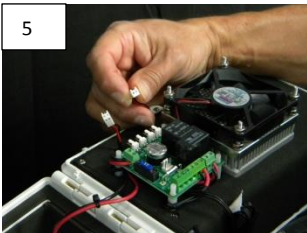
### This Kit Contains:

- (1) Internal Fan 80x80mm
- (1) Internal Thermal & Power Control PCB
- (1) Internal Terminal harness
- Fastener pack: (2)#8 mach. screws w/ cable clamps, (4)#6 nuts & washers, & (2) zip ties
- This Quick Install Guide

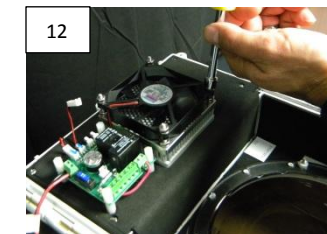
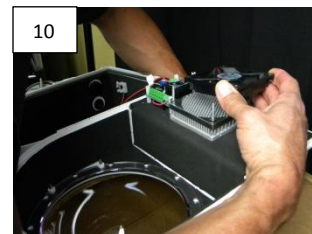
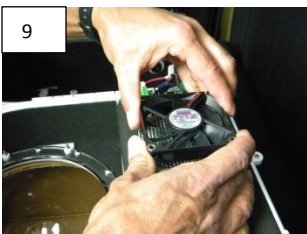
#1 & #2 Phillips Screw Drivers, Small (#-1) =1/8" Blade flat Screw Driver, 5/16" Nut Driver, 1/4" Nut Driver



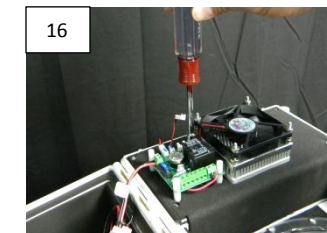
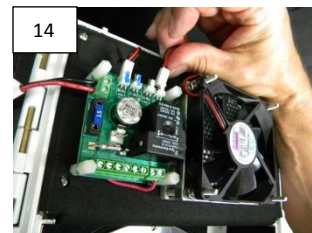
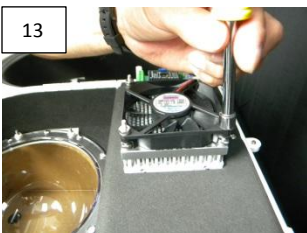
1) Remove Terminal Block @ rear of D2 with #1 Phil Screw Driver 2) Remove Cable Clamps with #2 Phil Driver 3) Remove Cooler & Camera cables w/ small flat Driver Note location of each wire for re-installation of new Thermal & Power Control PCB. Note Polarity Printed on PCB board terminal markings



5) Unplug Fan Plugs 6) Unscrew PCB's four nylon fastener nuts w/ 1/4" nut driver 7) Remove old PCB 8) Replace New PCB in same orientation



9) Unscrew four #6 nuts & washers for fan with 5/16" nut driver 10&11) Remove old fan 12) Replace with new fan, Install wire leads nearest to PCB side



13) Re-Install washers & Nuts on fans first by finger tight, then 1/4 turn-or-less after contact with fan surface. Thread lock is advised. 14&15) Re-Install all wires, observe proper polarities and original wire locations- from nearest side view, Dotworkz uses red wire (+) on right convention/ black (-) on left for each terminal. Confirm with PCB polarity markings. External Fan Plugs in to either of two fan headers that are nearest to hinge. Internal fan headers on PCB are nearest to fan on Cold Sink. Re-Install Cooler Wires from Cold Sink on terminals marked S+TEC (Switched Thermal Electric Cooler) observing Positive/ Red farthest to right. Re-Install camera power cables to terminal blocks observing polarity and markings on PCB 16) Re-Install nylon PCB Fasteners. 17) Re-Install Terminal block and cable management fasteners (reverse of illustrated items #1 & #2) 18) Always test Polarity and confirm voltage of power coming into D2 from external step down power supply - to confirm Low Voltage 12 VDC. 12 VDC Only- Red to Red Positive (+), Black to Black Negative (-) Re-install power wires from low voltage input power from external power supply: