

# ***TK GUIDELINE***

## ***PROBE REPLACEMENT***

### ***MODELS***

***TK500 - TK1000 - TK2000***

# ***EQUIPMENT***



*One phillips head screwdriver*



*5 zip ties*



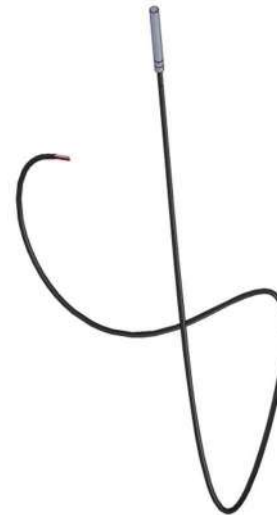
*One flat head screwdriver*



*Tongs*



*Allen wrench (7)*



*Thermostat Probe  
(spare part)*

# STEP 1



fig 1.1

*Disconnect your chiller from its water supply and power supply.*

*Remove the conveyor hood from the top part of the chiller. You will see the black metal grid and the colored fan support.*



fig 1.2

# STEP 2

*Remove the air filter grid and air filter from their position*



*fig 2.1*



*fig 2.2*

# STEP 3



fig 3.1

Using the screw-driver, remove the 4 screws to access the inside of the chiller



fig 3.1

# STEP 4

*Remove the red fan support lifting it up from the bottom edge.*

*Leave it on the metal cover, as you can see in the picture.*



fig 4.1



fig 4.2

# STEP 5

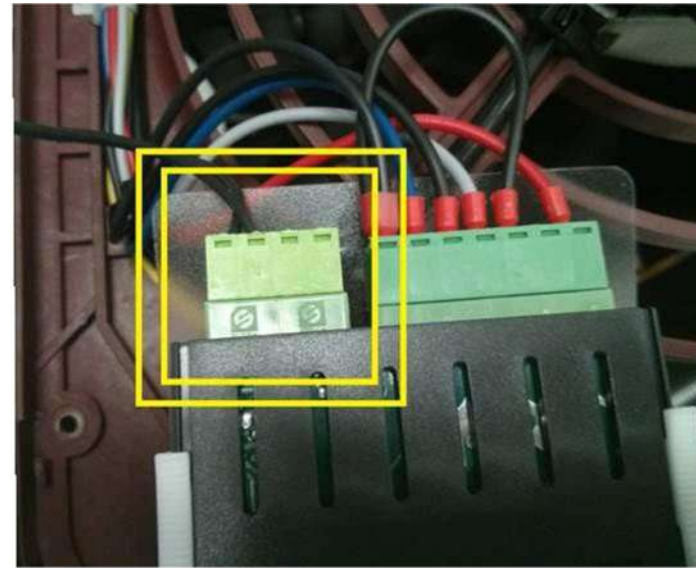
*Disconnect the compressor connector, heater connector (if present), and green bus bar (probe connector).*



*Compressor Connector*



*Heater Connector*



*Green Bus Bar  
(Probe Connector)*

# STEP 6

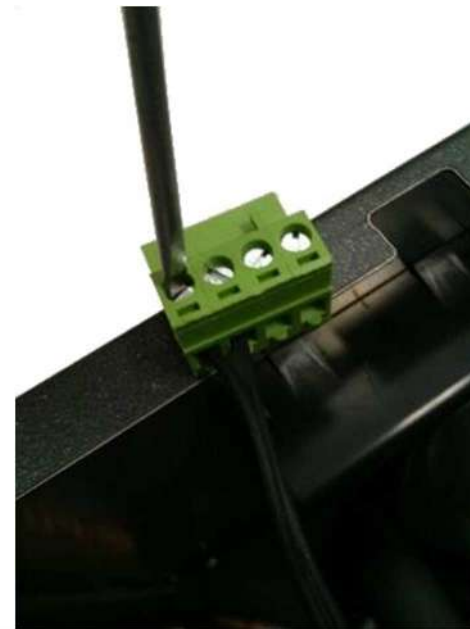
*Turn the chiller on its side so that the in/out ports are facing up.*

*Cut the black zip tie inside the chiller that secures the probe's wire to the tubing (see fig 6.1).*

*Then, with a small screw driver, disconnect the green bus bar from the probe's wire (see fig 6.2).*



*fig 6.1*



*fig 6.2*



# STEP 7

*Remove the rubber plug located on the chiller's bottom side (see fig 7.1).*

*Now you will see the probe well, the insulation, and the putty that holds the probe in place (see fig 7.2).*



*fig 7.1*



*putty*

*fig 7.2*

# STEP 8



fig 8.1



fig 8.2

*Remove the putty that covers the probe, saving it for later.*

*With your fingers, remove the probe by gently pulling the probe from its well (see fig 8.2).*

# STEP 9

Now, remove the probe from the chiller by gently pulling the wire through the plug hole on the chiller's base (see fig 9.1).

Keep gently pulling this wire until it is entirely out of the chiller (see fig 9.2).

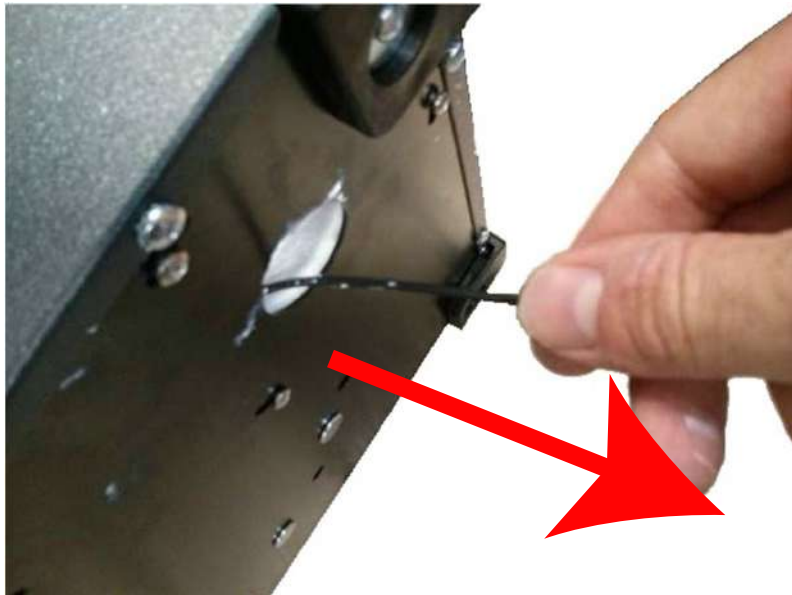


fig 9.1



fig 9.2

# STEP 10

*Take the new probe and remove the wire from the new green bus bar.*

*Gently twist the bare wire ends together and feed them into the chiller through the base plug hole (see fig 10.1). Inside the hole, you will notice a small passage, through the insulation, where you will thread the new probe's wires through.*

*Keep feeding the wire through the plug hole and passage until you can gently pull the wires from the inside of the chiller to the top (see 10.2).*

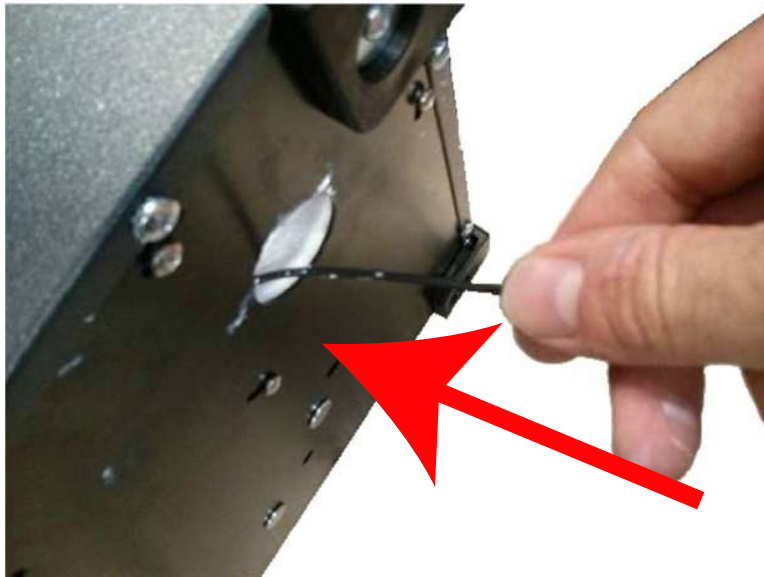


fig 10.1



fig 10.2

# STEP 11

*Reinsert the silver probe into the well hole until the probe will go no further. You should hear the metal of the probe click against the titanium inside (see fig 11.1).*

*Now, reapply the putty, saved from step 8, to ensure a leak-proof seal (see fig 11.2). From the inside of the chiller, pull any excess slack so that the probe's wire is completely inside the chiller.*

*Reinsert the plug into the hole and turn the chiller upright on its base.*



fig 11.1



fig 11.2

# STEP 12



fig 12.1

*Now that your chiller is upright, reconnect the new probe's wires to the new green bus bar with a screw driver (see fig 12.1), then connect it to the chiller's controller.*

*Take a new zip tie and secure the new probe's wire to the tubing (see fig 12.2)*

*At this time, reconnect the compressor connector & heater connector (if present).*



fig 12.2

# ***STEP 13***



*Reassemble your chiller in the following order:*

- 1. Secure the red fan support with the 4 screws you previously removed.*
- 2. Conveyor Hood*
- 3. Air filter*
- 4. Air filter grid*
- 5. Reconnect the water supply*

*Let your chiller sit for **ONE HOUR** before reconnecting the power and turning it on.*