

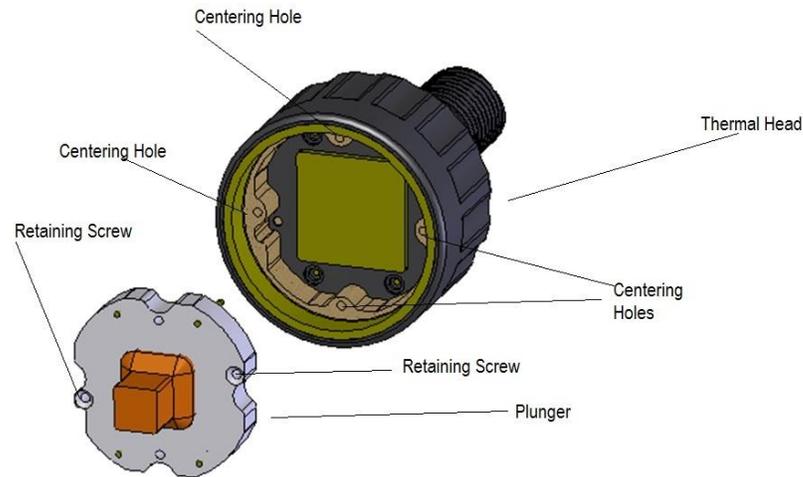
# ***FLEXTC***

## **HOW TO CHANGE PLUNGERS TUTORIAL**



## Installing Plunger in the Thermal Head

The base of the Plunger is constructed such that there is only one way that it can be installed in the Thermal Head.



**Figure 1. Plunger Installation**

To install the Plunger:

**\*IMPORTANT: PLEASE READ THESE INSTRUCTIONS VERY CAREFULLY OTHERWISE YOU MAY DAMAGE YOUR PLUNGER**

1. Cover the back of the Plunger with a thin layer of **thermal grease** in order to ensure contact with the Base Plate in the Thermal Head.
2. Slide the Plunger into the Thermal Head housing.
3. Press on the plunger with your fingers.  
If the thermal grease layer is too thick (that is, you see it coming up around the Plunger sides), take the Plunger out and remove the excess grease. Then slide the Plunger again into the thermal Head housing.
4. Gently secure the Plunger with two retaining screws (as shown in Figure ).
5. Please note that minimal force should be applied when screwing/unscrewing the plunger into position (**Note that electric screwdrivers should not be used in the final stages of tightening the screws into position or the early stages of unscrewing**)

The plungers internal four pins are sensitive and need to be protected when it is not in the thermal head.

---

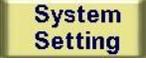
**Note:** *Repeat this procedure once every few months to ensure the best performance of the unit.*

---

## Changing Plungers

Plungers will come in different sizes and be made from different materials i.e. Copper or Aluminum. This will have a direct influence on the offset values. To fix this problem follow these instructions.

1. Using the same method as shown above in **INSTALLING PLUNGER IN THERMAL HEAD** insert your plunger into the THERMAL HEAD.
2. On the **MANUAL CONTROL SCREEN (TC CONTROL)** First set the temp to 60.0 in the

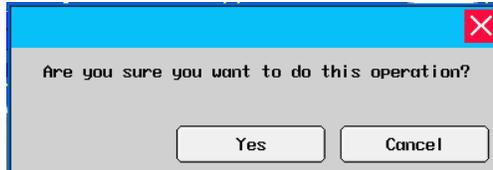
**SET POINT** box.  then press  button

3. You will now be in the **SYSTEM SETTING SCREEN** on the right of this screen you will see



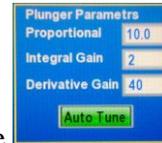
the **PLUNGER PARAMETERS** box.  At the base of this box is an **AUTO TUNE** button which will be **RED**.

4. Press the **AUTO TUNE** button and a box will appear on the screen. Press the **YES** button on this



box.

5. The **AUTO TUNE** button will change to **GREEN** and the parameters on the **PLUNGER**



**PARAMETERS** box will change accordingly to suit the plunger type.

6. Now go back to the **MANUAL CONTROL SCREEN (TC CONTROL)**. You can now start testing.