

Z23 & Z24

Multi-Purpose Time Device Prism Replacement Guide



FlexClock Prism Replacement Guide

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The steps below detail the procedure for replacing the fingerprint sensor prism in a Z23 and Z24.



To avoid “stripping out” plastic threads, do not to over-tighten the screws.



Keep all screws and the *rubber feet*, they will be reused.



When **re-threading** screws into plastic, it is easy to “cross” or “strip” the threads. To line up the threads properly, a good practice is to position the screw, then turn it **counter-clockwise** (as if to remove it) with a slight amount of downward pressure. In most cases, when the first thread is reached you will feel a slight “click.” When you feel that click, stop, and thread the screw in as usual.



Be careful when handling the *fingerprint sensor* and *new prism*. They should be kept as clean as possible. It will not be possible to clean dust or smudges after they have been attached to the *case*.

1. Open the *Case*
 - a. Carefully remove the *rubber feet* from the back of the unit. (They will come out with just a fingernail or a small Slotted screwdriver.)
 - b. Remove the now uncovered (4) screws from the back of the unit.
 - c. Separate the *front* and *back case* just enough to provide access to the *fingerprint sensor mounting screws*. (Be careful not to damage any wires by attempting to completely separate the front and back case.)

2. Disconnect the *Ribbon Cable*

Note: Be careful to not damage the *ribbon cable*. After pressure is released at the *connector*, the *cable* will come out easily.

- a. Disconnect the *silver ribbon cable* from the *fingerprint sensor*. To release this *cable from the connector*, find the *small brown tabs* on the *connector* at each side of the *cable* and gently pull them in the direction of the *cable*. The *cable* should slip out easily. (Do not pull the *cable* out without first releasing the *connector tabs*.)
3. Remove the *Fingerprint Sensor*
 - a. Remove the *fingerprint sensor* from the device by removing (2) screws from the *metal bracket*.
4. Replace the *Prism*
 - a. Remove the (small rectangular) *cover piece* and screw from the left side of the *fingerprint sensor*.
 - b. Carefully pry out the *old prism* using the opening you just created.
 - c. Replace it with a *new prism*. It is best to hold the *new prism* from the “sharp” edges when inserting it into the *fingerprint sensor*. (Be careful not to get your own fingerprints on the *new prism*.)
 - d. Replace the *cover piece* and screw removed in step (2) above.
5. Reinstall the *Fingerprint Sensor*
 - a. Reposition the *fingerprint sensor* into the device.
 - b. Attach it with the *metal bracket* and (2) screws.
6. Reconnect the *Ribbon Cable*
 - a. Reconnect the *silver ribbon cable*. Make sure the *small brown tabs* on the *connector* are still in the “released” position. Gently push the *cable* into the slot and “lock” it in place by pressing the *tabs* back in toward the *connector*. (You can use a small screwdriver for this.)
7. Close the *Case*:
 - a. Attach the *back case* to the *front case* with (4) screws.
 - b. Replace the (4) *rubber feet*.