

INSTALLATION PROCEDURE OF MARKINS TITANIUM SPIKES

The whole procedure may look long and overwhelming. But in essence, it is simply removing the pre-existing rubber feet by heating, and then gluing the new titanium spikes using epoxy. Before you proceed, read the whole procedure.

ALWAYS PAY EXTRA ATTENTION IN HANDLING A TORCH. IF YOU ARE NOT CONFIDENT ENOUGH, LET A PROFESSIONAL HANDLE THIS.

A. Material and Equipment

- Torch
- A pair of pliers
- Epoxy glue (NOT 5 minute one, get 30 minute and clear one)
- Wooden stick to mix and apply the epoxy glue
- Good quality paper towel, or clean cloth

B. Removing the rubber feet

1. Disassemble the last sections of legs.
2. Heat the end of the leg with torch carefully while rotating it. If you start smelling rubber burning, then it is very close to ready.

As your reference, Gitzo installed rubber feet have the following depths.

G1327, G1325: 7/8" (22mm)

G1227: 5/8" (16mm)

(BE CAREFUL HANDLING THE TORCH.)

3. Hold the rubber feet with a pair of pliers, and pull it out carefully while rotating. **DON'T TOUCH WITH BARE FINGER.** It should come out relatively easily, if there is resistance or difficulty, then heat it up more.
4. Repeat 1~3 for other two legs.
5. Allow the legs to cool down.
6. Check if the spike fits to the tube. If there is residue left, scrape out by reheating.
7. Re-assemble legs.



C. Installing the titanium spikes

1. Prepare epoxy following the directions of product.
2. Apply epoxy to all around of the inside of leg with about 1mm thick.
3. Apply and fill epoxy to the groove of a spike.
4. Insert the spike slowly, while rotating slowly. If epoxy ooze out too much, little bit of pumping action can help.
5. Wipe off the excessive epoxy using paper towel or cloth before they hardens.
6. Repeat installing for other two legs.
7. Adjust the legs in such a way that all the legs are **VERTICAL** against the ground. Or, the spikes can be crooked while hardening.
8. Leave the tripod upright for overnight till the epoxy hardens.
9. You can check the hardening progress from the left over epoxy.

DISCLAIMER: MARKINS IS NOT RESPONSIBLE FOR ANY DAMAGE TO YOUR TRIPODS OR INJURY DURING THIS INSTALLATION PROCESS.