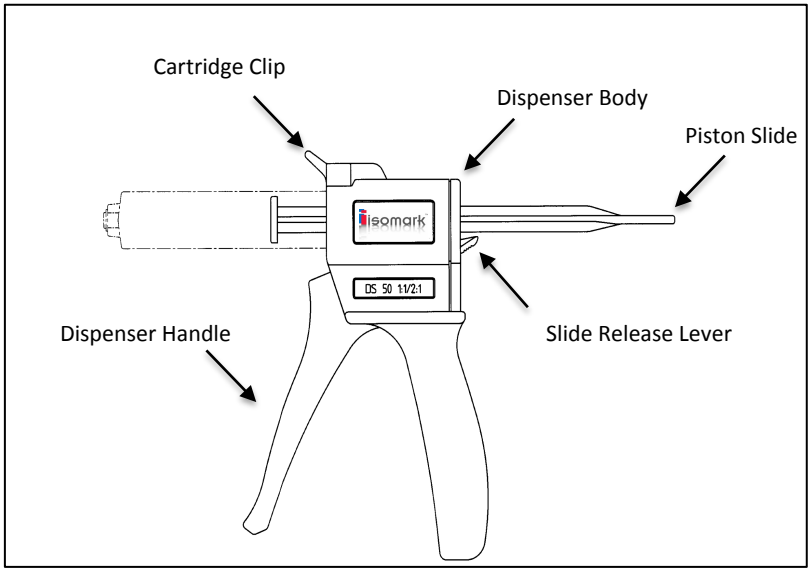
Trouble shooting

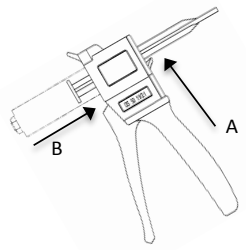
Problem	Reason	Action Required
Nozzle will not fit onto cartridge	Nozzle ports not aligned with cartridge ports	Align ports correctly and twist nozzle on
Dispensing Gun fails to pressurize cartridge	Damaged Piston Slide	Check instructions. Replace slide if necessary
Base piston on cartridge leaks	Excessive pressure on dispensing gun due to nozzle blockage	Remove cured material if possible or replace cartridge
Material cures in the nozzle	Stop/start operation OR nozzle attached for a long period before use	Replace nozzle and proceed without delay
Material does not come out of the nozzle after replacing a previous nozzle	Cartridge ports have cured over	Remove cured material or discard cartridge
When using a new cartridge the first part of the replica does not cure	Cartridge not primed before attaching nozzle	Prime cartridge before first use. NOTE: Cartridge will work satisfactorily with subsequent nozzles
Material cures too quickly or too slowly	Incorrect grade being used for the ambient temperature	Choose a grade appropriate for the conditions. (see compounds)
Air bubble entrapment or excessive voids when using thixotropic materials	Poor application	Keep the nozzle in contact with the surface. For blind holes place the tip of the nozzle at the bottom of the hole
Replica distorts and resolution is poor when examined microscopically	Replica too soft when removed due to incomplete curing	Extend curing period
Replica surface does not cure	Cure inhibited by surface contamination e.g. grease or oil	Check surface cleanliness
Replica breaks during removal	Severe re-entrant geometry. Replica not completely cured	Allow adequate curing time. Remove slowly applying constant pressure
Replica adheres to surface	Mechanical attachment to fibrous or porous surface	Remove slowly applying constant pressure

isomark™

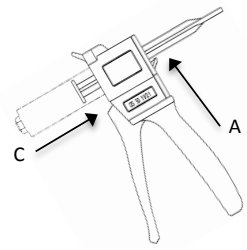
Assembling the 50ml Dispenser



STEP 1: DISPENSER ASSEMBLY

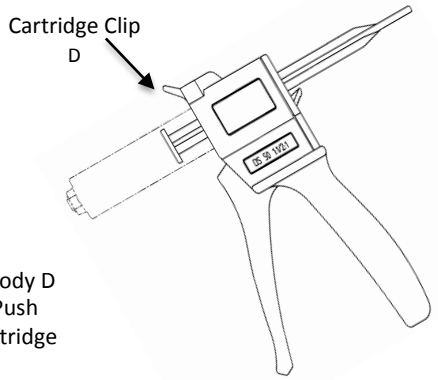


Raise Slide Release Lever on dispenser body - A
Insert Piston Slide - B



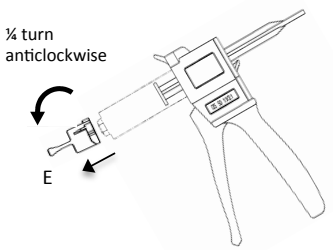
Keep Slide Release Lever raised and push Piston Slide back as far as possible - C

STEP 2: FIT CARTRIDGE ON DISPENSER

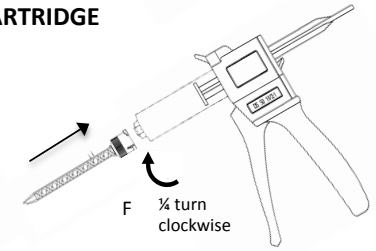


Lift Cartridge Clip on Dispenser body D and slot cartridge into position. Push Cartridge Clip D down to lock cartridge in to dispenser.

STEP 3: FIT MIXING NOZZLE TO CARTRIDGE

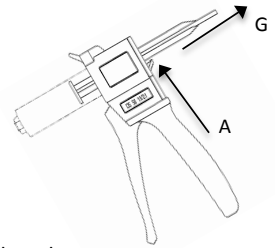


Rotate cartridge cap anticlockwise ¼ turn and pull to remove - E

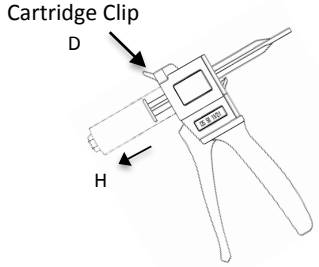


Locate Mixing Nozzle on cartridge and rotate clockwise ¼ turn to lock – F
Once fitted dispense a small amount of compound on to waste paper (This levels the cartridge and is only required when using a new cartridge).

STEP 4: REMOVAL OF CARTRIDGE



Raise Slide Release Lever on dispenser body – A and withdraw piston – G



Lift Cartridge Clip – D
Remove cartridge from dispenser Body - H

Making Replicas

1. Operate the dispenser smoothly to apply the ISOMARK Compound. Keep the nozzle end touching or as close to the surface as possible to avoid trapping air in the replica and to force the material into surface features.
Overlap runs to cover larger areas.
Weave the nozzle end from side to side if a wider bead is required or use the spreader attachment SP10. (Note that each weave should overlap the previous one).
When replicating vertical surfaces, work upwards.

2. Do not apply excessive hand pressure to the dispenser as this may damage the operating mechanism.

3. Do not stop the flow of material through the nozzle for longer than the working life of the ISOMARK grade being used. Once the working life has been exceeded a new nozzle will need to be fitted.

4. Allow the ISOMARK compound to cure (check cartridge for curing time) and then carefully peel off the cured replica from one side. To prevent damage and loss of recorded detail do not touch the replica surface and store the replica in a plastic bag.

5. After use, remove the nozzle and replace the cap. To re-use the cartridge fit a new nozzle.

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