

Hitalograph® Gold Standard/Gold Standard Plus

Frequently Asked Questions

Please select area of interest from one of the following headings:

[Power on](#)

[Calibration](#)

[Performing tests](#)

[Printing](#)

[General](#)

If your query is not answered in this document then please click on the following link, fill in the details and submit the form. One of our technical support personnel will then reply to your query.

[Technical Support Request Form](#)

No power light on.

- Check that the unit is plugged in and switch on.
- Check fuse.

Gold Standard Plus: *Beep not sounding on power on.*

- Enable sound on the unit.

Gold Standard Plus: *“Wait please” message appearing on screen after power on*

- The memory on the unit is almost full and the unit is carrying out a sort to make use of all available free memory. You should download patients tests results to a Spirotrac IV database or if not using Spirotrac then you should delete any unwanted tests from the units memory.

Calibration values vary greatly

- Syringe volume has not settled. Wait for at least 1 second after withdrawing syringe piston before pumping air into the unit.
- Stylus may not be at the **Stylus Start** point at the start of the calibration routine. Set stylus correctly (ref Chapter 3 of user manual).
- Bellows damaged/leaking. Contact your Vitalograph service centre if replacement is required.
- Voltage from pot needs to be re-adjusted. Contact your Vitalograph service centre.

What is the percentage difference between the chart and software readings on the Gold Standard Plus?

- Accurate to within +/- 3%

During FVC testing tracing falls off with increased time.

- Leak in system caused by a split in tube. Replace breathing tube if split
- Leaking connection in breathing tube. Check all internal and external connections and re-fit if leaking, using silicone grease on sliding joints.
- Damaged bellows. Contact your service agent if replacement is required.

Very small VC or FVC test displayed on the LCD.

- Ensure that the stylus is at the **Stylus Start** point at the start of each test.

False readings suspected.

- Gold Standard Plus is not calibrated. Compare results on the LCD with the readings from the chart and check the calibration if necessary (ref. Chapter 4 of user manual).
- Ensure that the stylus is at the **Stylus Start** point (ref. Chapter 3 of user manual).

Erratic tracing of curve, difficulty in obtaining consistent results.

- Air leaking from mouthpiece, breathing tube, or breathing tube connectors.
- Air leaking from internal bellows. Contact your service agent if replacement is required.

At start of FVC or MVV test, stylus moves vertically down the chart before the chart carrier starts to move.

- Turn the chart travel thumbscrew on underside of base to continuous (ref. Chapter 3 of user manual).

Other chart carrier problems

- Ref. [General](#) section of this document.

Printer not working properly.

- Check that the correct printer driver is selected on the on the unit in the **Setup** menu (ref. Chapter 3 of user manual).
- Check that the intelligent printer cable is working correctly.
- Print test page from printer (refer to printer manual).

Chart carrier does not move. Motor not operating.

- The mains power switch is off or the instrument is disconnected from the power (mains) supply.

Chart carrier does not move. Motor operating.

- Motor drive pinion not engaged with rack or carrier retaining bracket bent. Remove chart carrier, adjust and refit.

Chart carrier does not move.

- Check that the record switch is in the correct position
- Ensure the carrier is in the correct start position.

Chart carrier moves a short distance from the Stylus Start position and then stops.

- Carrier has 'jumped' the limit switch actuator. Remove and refit chart carrier.

Chart carrier moves erratically.

- Carrier rod dirty. Wipe rod clean with surgical spirit. If excessive accumulation, remove the chart carrier and clean rod.
- Carrier rod bent. Replace carrier rod.
- Pinion and rack teeth dirty. Remove carrier and clean pinion and rack teeth.

Chart carrier moves before patient blows into instrument

- Turn the chart travel thumbscrew on underside of base to AUTO-START (ref. Chapter 3 of user manual).

Chart carrier does not return to start position.

- Record switch not set. Press down Record switch to ←

Chart tracing faint or irregular.

- Stylus incorrectly set. Increase pressure by adjusting thumbscrew and lock-ring.
- Wax build-up on stylus point due to long use or excessive pressure. Clean with surgical spirit or similar.

Stylus does not return to Zero Point.

- Safety Mouthpiece still fitted to breathing tube. Remove mouthpiece immediately after each test.
- Bellows over-inflated and failed to fold back correctly. Carefully align bellows folds into correct position. Check that the chart travel thumbscrew is adjusted correctly (ref. Chapter 3 of the user manual).

Stylus does not re-set to Zero Point when chart carrier returns.

- Stylus not vertical. Slacken thumbscrew on stylus arm and adjust stylus setting.
- Limit switch adjustment incorrect. Adjust the chart travel thumbscrew. Check for correct operation before replacing top cover (ref chapter 3 of user manual).

Stylus arm will not move.

- Transit clamp still in position. Remove clamp (ref. Chapter 3 of user manual).

