

Maintenance Questions, for O2D1 & O2D2 PULSE-DEMAND™ Portable Systems

Q. I have one of your portable MH-EDS PULSE-DEMAND™ units. They seem to be operating just fine, should I send it in for any type of routine service or testing?

A. Yes. Even though your pulse demand unit will generally let you know if there is a problem and has been designed to be relatively maintenance free, except for batteries, it should be sent in on a regular basis for performance inspection and service. This includes the in-line or screw-on pressure regulator you use with the EDS. Think of it like performing an annual inspection on your aircraft.

Q. Why has this not been mentioned before and how often does MH recommend this be done?

A. This service program has been derived from usage and servicing data acquired during the last 10 years the technology has been in production and fielded. From this, Mountain High has recently decided on a routine service program that should be accomplished once every two years, (bi-annually). This must include the pressure regulator you are currently using with the EDS unit(s).

Q. What is done to my EDS unit and regulator when I send them in for service?

A. From time to time we make engineering improvements during our production. These improvements may include changes to hardware or firmware or both. This is our way of passing on our latest improvements to you. Also routine service parts such as seals, seats, O-rings and filters are inspected and replaced. Your EDS unit(s) and regulator(s) are then thoroughly inspected and tested on our ATP test set to ensure they are operating to specified standards. This will help to ensure your system is operating properly and upgraded to the latest specifications.

Q. How much does it cost me?

A. The cost for this service is US \$95.00 and includes all firmware and hardware upgrades as well as routine service parts. Any other parts replaced due to damage or field use would be subject to an additional charge.

Q. What about shipping costs and how long should I expect this service to take?

A. You pay only the shipping to us, and in the continental US we pay UPS ground shipping back to you. International shipping is to be paid by customer. Once we receive your unit, in-house turn around time is generally five to ten working days.

Q. I have sent my EDS unit(s) back once before for a problem of leaking or not responding at certain altitudes, but it came back with the same problem. Why?

A. Many problems perceived to be with the EDS unit(s) have in fact turned out to be with the pressure regulator. This has mostly been the case if you are not using the MH Regulator designed for the EDS or are connecting directly to a built-in system installed in your aircraft. This is why you must include the primary pressure reducing regulator you are using (ours or not) or tell us that you are connecting the EDS unit(s) directly to your aircraft's built-in system without our MH In-Line Regulator. Many other regulators do not regulate the pressure adequately for the EDS unit(s) to operate and deliver the proper amount of oxygen. Damage can be done to the breathing sensor in the EDS unit(s) if the operating pressure is too high. Additionally, we have seen many situations where customers connect the EDS unit(s) to the connectors and tubing that came with their aircraft, then plug them into the high pressure outlets in the aircraft. This has caused a lot of confusing problems because these connectors generally have flow restriction orifices. In many cases this has allowed the EDS unit(s) to check out okay at ground level when the pulse response is low, but then activate with flow fault alarms at higher cruising altitudes. Additionally, this problem can be difficult to reproduce because the EDS unit(s) operate with pressure altitude and not barometrical corrected altitude.