



## TECHNICAL ADVISORY

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DATE: July 27, 2015

SUBJECT: 9000 Series 2<sup>nd</sup> Stage Regulators – Upgrade Kit

Changes have been made to the 9000 Series 2<sup>nd</sup> Stage internal valve components to improve the performance of the Poppet, Seat, and Orifice. These changes address the possibility of an improper seal that may develop in the 2<sup>nd</sup> stage due to either an orifice damaging the seat, or tolerance deviations that may allow for slight misalignments of the poppet to the orifice. The changes to the components are as follows:

- Orifice: The sealing edge is slightly more rounded so it is less likely to damage the seat;
- Seat: Now made of a slightly higher durometer to increase toughness and has an improved fit into the Poppet;
- Poppet: The ribs have been extended all the way to the seat to improve the alignment to the orifice;

These new parts are contained in an Upgrade Kit that will be provided by Sherwood Scuba at no cost, but only for the Sherwood Octo (SR9902), Brut, Magnum, Oasis, and Blizzard 2<sup>nd</sup> Stage Regulators that were produced from June 2013 through December 2014.

**Eligible units must be within this serial number range: 13020401 – 14124477**

The serial number is found stamped into the 2<sup>nd</sup> Stage housing. Please do not confuse this number with the serial number marked on the 1<sup>st</sup> Stage Regulator.

If you have a 2<sup>nd</sup> Stage unit within the above serial number range that is displaying a small leak you cannot solve through a normal service and is within its normal service period, contact your Sherwood Scuba Distributor for an Upgrade Kit and perform a standard service overhaul.

The Upgrade Kit contains a new two-color Mouthpiece with Tie Strap so that the 2<sup>nd</sup> Stage can be visually identified as upgraded. The Kit also contains a new Thrust Washer so that any upgraded 2<sup>nd</sup> Stage will be fully up to date.

Only one Upgrade Kit will be supplied for each 2<sup>nd</sup> Stage regulator. The Upgrade Kit will contain all of the parts shown here:



All Parts will retain the same part numbers except for the new two-color Mouthpiece.

All 9000 Series 2<sup>nd</sup> Stage Regulators built after January 2015 already contain the new upgraded parts and therefore are not included in the eligible serial number ranges. These regulators will have the new two-color Mouthpiece installed to easily identify them.

If you have any questions regarding the Upgrade Kit, please contact your Regional Sherwood Scuba Distributor for assistance.