



Kirby Morgan Dive Systems, Inc.®

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Bulletin #4 of 2011. May 31, 2011 Caution Bulletin Diaphragm Part Number 510-553

Products Affected: Regulator Diaphragms #510-553 (manufactured January 23rd, 2009).

A questionable fit with several regulator diaphragms, (p/n 510-553), was reported when being replaced during routine maintenance.

For inspection reference, these diaphragms can be visually identified by the smooth shiny appearance of the rubber. *Earlier production batches of this part showed more of a satin, dull finish and have not exhibited any fit issues and do not require this measurement inspection.*

It is recommended that all spare parts be inspected for this condition. This includes spare regulator diaphragms, both the 505-069 and 505-027 regulator assemblies as well as any helmets and masks that use the SuperFlow Regulators. *Only diaphragms with a shiny finish need inspection.*

A simple, quick inspection can be performed using a #53 (0.0595") (1.52mm) size drill bit as an inspection gauge. Make certain the diaphragm is in a settled condition on the sealing shelf (flange) of the regulator body. There should be no clearance between the outer edge of the diaphragm and the flange of the regulator body *with the gauge in place*. The best method to check the O.D. is to use an accurate measuring device such as vernier calipers or a micrometer. The O.D. should measure no less than 2.905" (73.79mm). Any parts showing less than this dimension, or a larger gap when using the gauge, should be replaced.

Diaphragms, not passing inspection, can be returned for replacement at no charge through an authorized KMDSI dealer.



Note: With the gauge in place, there should be no additional gap between any of the parts.

For further information, contact your authorized Kirby Morgan® dealer or sales@kmdsi.com

Additional Safety Recommendations

Amron International has found that the following Kirby Morgan parts are also affected by this Safety Bulletin:

- 510-553 Diaphragm
- 500-010 SuperLite 17B Helmet w/Post
- 500-011 SuperLite 17B Helmet w/MWP
- 500-040 SuperLite 27 Helmet w/Posts
- 500-041 SuperLite 27 Helmet w/MWP
- 500-050 KM Dive Helmet 37 w/Posts
- 500-051 KM Dive Helmet 37 w/MWP
- 500-100 KM 37Ss Dive Helmet w/Posts
- 500-101 KM 37Ss Helmet w/MWP
- 500-025 KMB 18B Band Mask w/Posts
- 500-026 KMB 18B Band Mask w/MWP
- 500-028 KMB 28B Band Mask w/Posts
- 500-029 KMB 28B Band Mask w/MWP
- 500-599 SuperLite 17C Helmet w/Posts
- 500-600 SuperLite 17C Helmet w/MWP
- 505-069 Regulator Assembly; 1 In
- 505-069NS Regulator Assembly
- 505-027 Regulator Assembly B
- 505-026 Regulator Assembly A
- 525-309 Regulator Rebuild Kit For KM
- 525-317 Helmet Spares Kit; SL-17A/B
- 525-319 Mask Spares Kit; KMB 18/28
- 525-322 Helmet Spares Kit, SL-17C
- 525-323 Overseas Spares Kit, SL-17C
- 525-325 Overseas Spares Kit; SL-17A/B
- 525-327 Overseas Spares Kit; 18/28
- 525-333 Helmet Spares Kit; SL-27
- 525-341 Overseas Spares Kit; SL-27
- 525-345 Helmet Spares Kit; MK-21
- 525-347 Helmet Spares Kit; SL-17K/37
- 525-349 Overseas Spares Kit; SL-17K/37
- 525-360 Kit; Soft Goods Overhaul
- 525-363 Kit; Soft Goods Overhaul
- 525-365 Kit; Soft Goods Overhaul; 27
- 525-358 Kit; Soft Goods Overhaul
- 525-381 KM37SS Helmet Spares Kit
- 525-382 KM37SS Overseas Spares Kit
- 525-380 KM 37SS Soft Goods Overhaul Kit
- 525-327 Overseas Spares Kit; 18/28