



REX Regulator (KM 47/77)





KIRBY MORGAN DIVE SYSTEMS INCORPORATED MAINTENANCE AND REPAIR TECHNICIAN TRAINING



- Only selected Dive Lab trained Technicians are authorized to teach the Technicians Course
 - Only Dive Lab authorized Technicians may teach the KMDSI Operator/User Course
 - Course curriculum must be presented within the guidelines set-up in the repair technician's guide and slide show
-
- This presentation is available at no charge from www.divelab.com for the use of Kirby Morgan Customers & users of Kirby Morgan Diving Equipment ONLY
 - THIS MATERIAL MAY NOT BE CHANGED OR MODIFIED WITHOUT PERMISSION FROM DIVE LAB



REX Regulator (KM 47/77)



- The breathing system on all Kirby Morgan helmets and masks is simple and highly reliable
- The fact that they can continue to operate when the components are not in a well-maintained condition can cause divers to become complacent about maintenance
- ***Your life depends on the correct function of this equipment!***



REX Regulator (KM 47/77)



- The REX regulator is simple to maintain, like any type of life support equipment, it requires regular periodic maintenance to function properly
- All parts disassembled should be thoroughly cleaned
- Components that require the use of lubricants, sealing and thread locking compounds should also be serviced



REX Regulator (KM47/77) Disassembly for Cleaning



- Remove tie wraps from whisker wings
- Remove whisker valve assembly from each side of exhaust body, inspect
- During regular cleaning and inspection, the whisker valves do not need to be removed from plastic exhaust valve seats
- Remove regulator cover ring, cover, washer, and diaphragm



REX Regulator (KM 47/77) Disassembly





REX Regulator (KM 47/77) Disassembly





REX Regulator (KM 47/77) Disassembly



- Remove each plastic valve cage with the silicone valve still installed
- Clean and inspect valve assemblies
- Silicone valves should be smooth and flat, when lifted away from seat, it should snap firmly into place
- The seats should be smooth and straight





REX Regulator (KM 47/77) Set-up/Adjustment



- Install diaphragm, thrust washer, flexible cover and cover ring to the regulator assembly using the special spanner wrench





REX Regulator (KM 47/77) Set-up/Adjustment



- Adjustment of the demand regulator should be done using a supply pressure of between 135-140 p.s.i.g.
- Re-check adjustment knob position by completely turning it in, then backing it out 3 full turns
- Attach a air source to either umbilical adapter at the one way valve, or EGS valve
- Slowly pressurize helmet, then open the supply fully



REX Regulator (KM 47/77)

Set-up/Adjustment



- The cover should travel inward 1/4 of an inch before gas flow is heard
- Once desired travel is achieved, tighten lock nut against regulator body using two 13/16" wrenches
- Make certain bent tube fitting is snug against the hex on nipple tube by again using two 13/16" wrenches
- Re-check purge adjustment, re-adjust if needed



REX Regulator (KM 47/77) Set-up/Adjustment



Low pressure air source must be adjustable over a range from 135-140 p.s.i.

With the air supply connected, turn the adjustment knob all the way out and back in 3 turns





REX Regulator



Regulator is adjusted
and ready for use





Summary



Always refer to
Operations &
Maintenance Manual
for adjustment
procedures

- Inspection
- Adjustments





Questions

