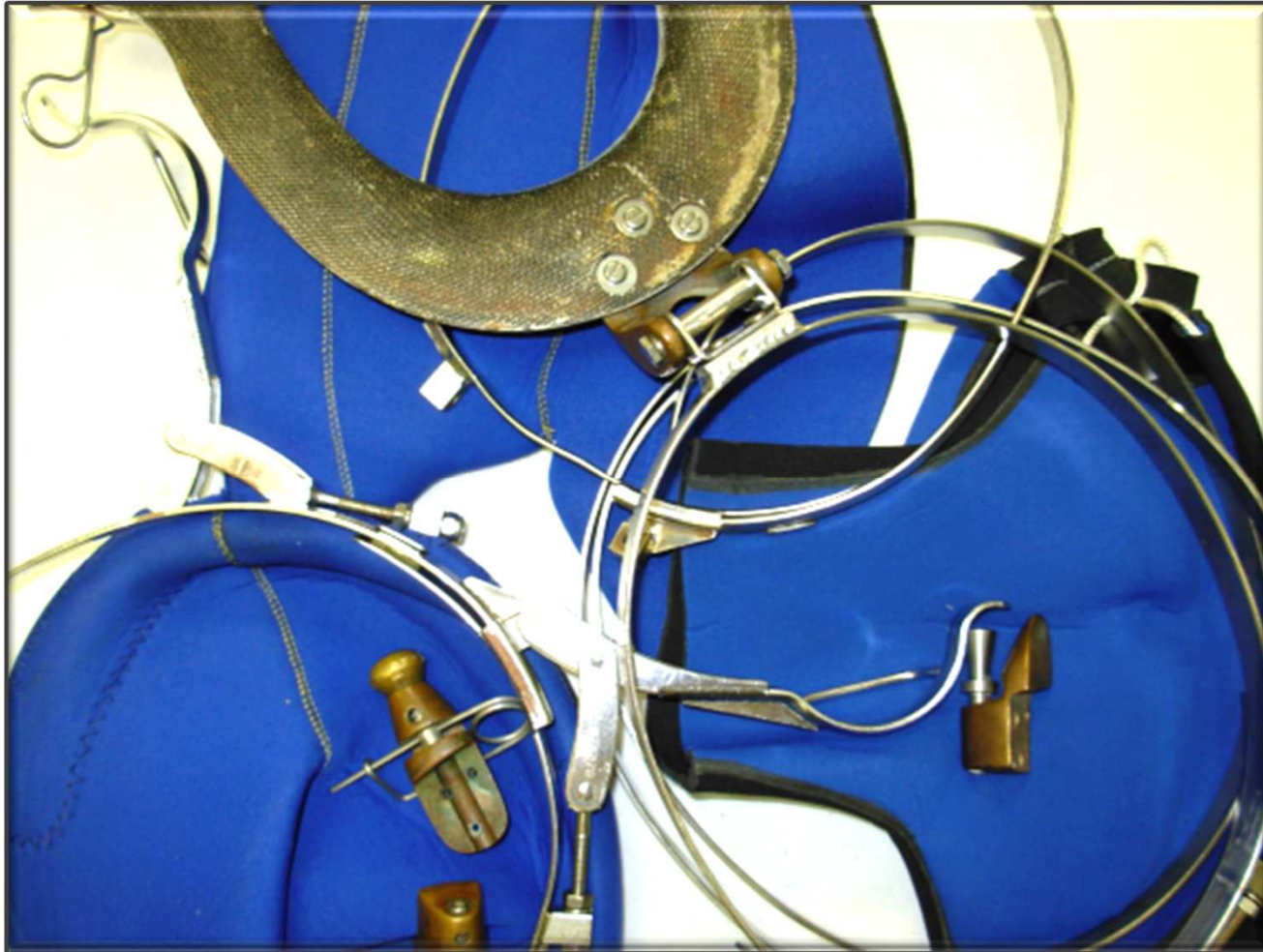




SL 17A/B YOKE/NECK CLAMP ASSEMBLY





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



SL 17A/B YOKE/NECK CLAMP ASSEMBLY



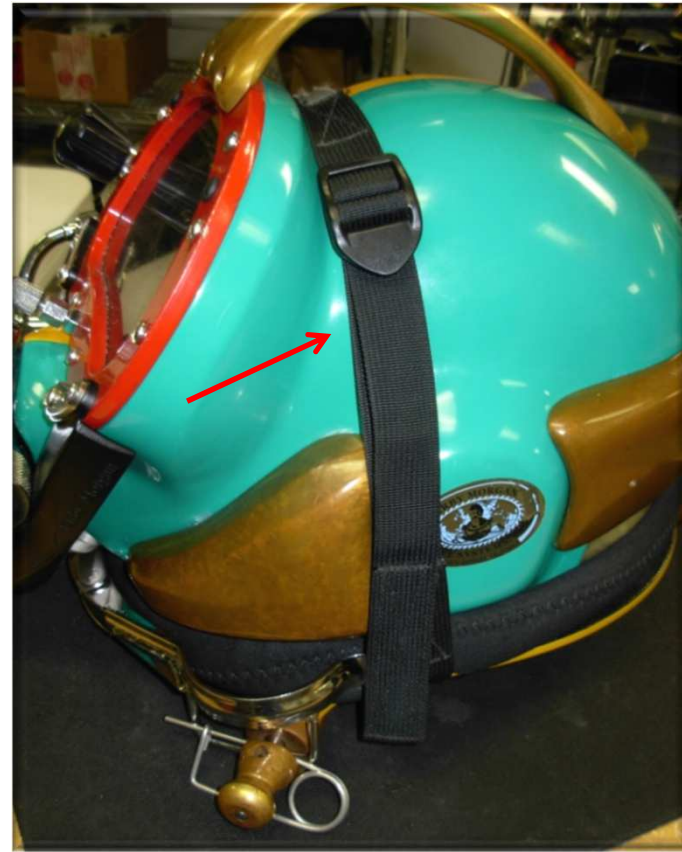
- KMDSI recommends that Neck Clamps older than five years old be removed from service and replaced
- Neck clamps that show no signs of damage and or deterioration that are kept in service, should be inspected at least weekly I.A.W. the Monthly Inspection A2.2, steps 1-7
- Remove Yoke/Neck Clamp Assembly from Helmet



SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Inspect yoke strap
- The strap is a additional restraining system





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- As of Jan 2004 all 17Bs came with the strap kit installed



- Recommend installing strap kit on older helmets
- Kit 525-234





NECK CLAMP ASSEMBLY



- 23 Individual parts
- Welded by hand
- X-rayed
- Expensive to manufacture





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Loose fitting Neck Dam, or holes and tears can cause the demand regulator to free flow
- Water leakage in the back of the neck from a loose fitting Neck Dam





SL 17 A/B YOKE/NECK CLAMP ASSEMBLY



- Tight fitting Neck Dam can restrict blood flow and cause headaches or in extreme cases, can cause the diver to pass out





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Perform a visual inspection of all metal parts of the Clamp Assembly for damage
- Check the Hinge Pins for a loose fit, signs of cracking, distortion or any damage
- Guidance SL 17A/B O&M Manual





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Hinge pins are only welded on one side and can trap water, eventually allowing corrosion to cause the pin to break
- water gets trapped inside the adjustment stud causing corrosion of the adjustment stud

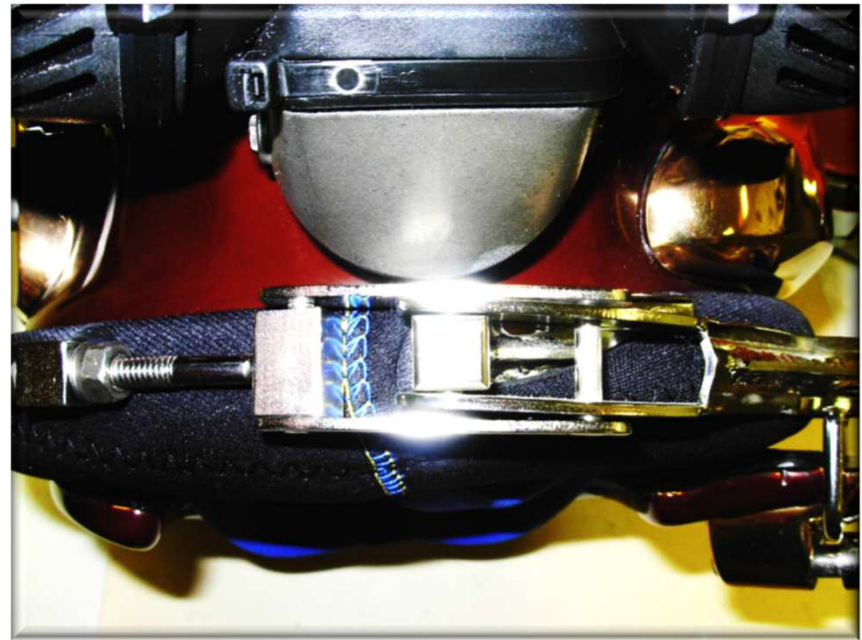




SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Diving Supervisor should pry between the demand regulator and the clamp to insure the clamp is engaged and secured properly
- clamp can sometimes get closed over the “ears” and this can bend the clamp or break the ears

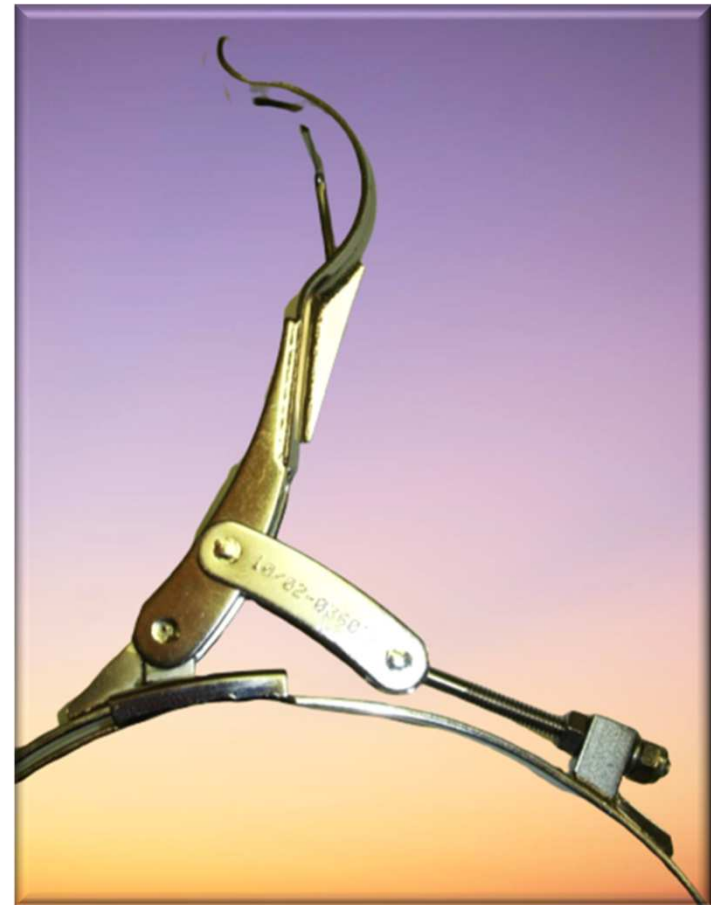




SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Clamp components can get bent due to improper dressing and mating procedures
- Weldment areas should be checked

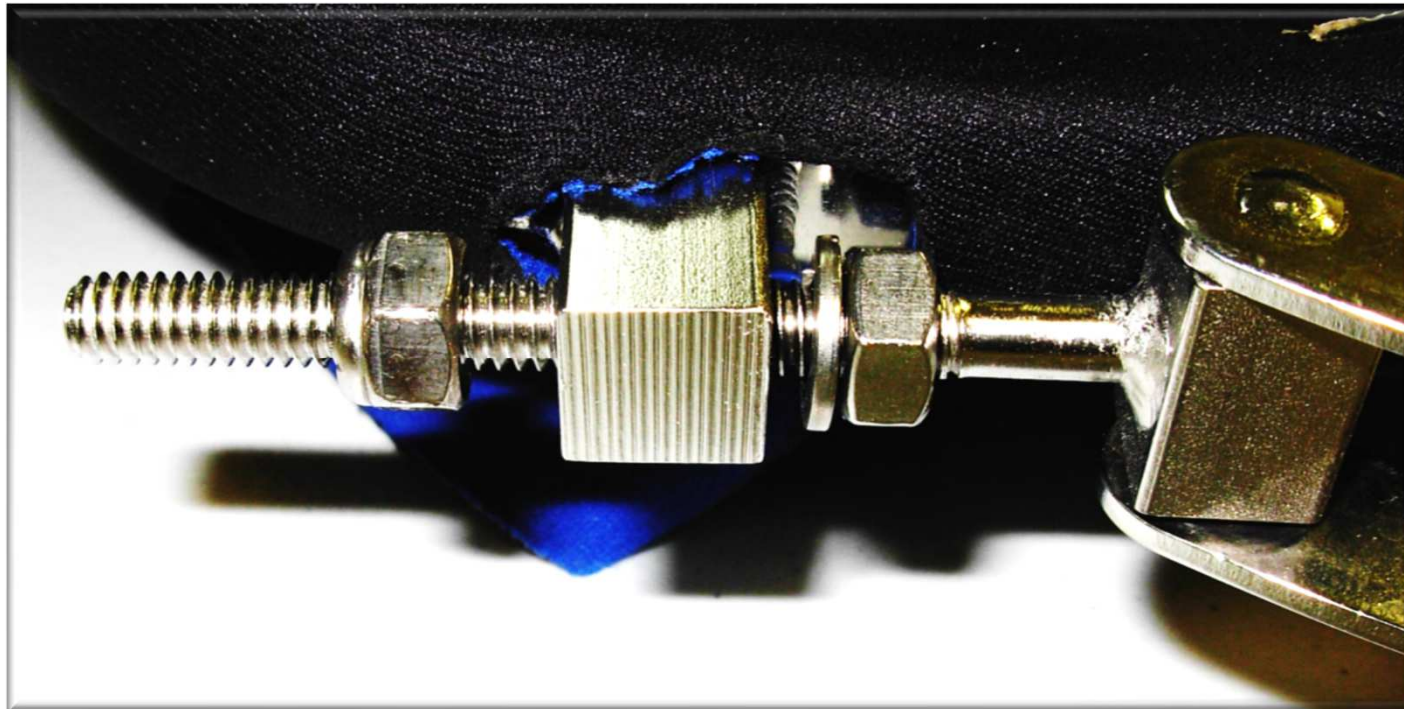




SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Inspect the Adjustment Stud on the Neck Clamp for signs of cracking, distortion, bending, and/or stripped or damaged threads





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Loosen nut to the shoulder of the Stud and manually squeezing the Neck Dam Clamp to expose the portion of Stud that is normally hidden by the Stud Block
- If any damage is present, the Neck Clamp requires replacement

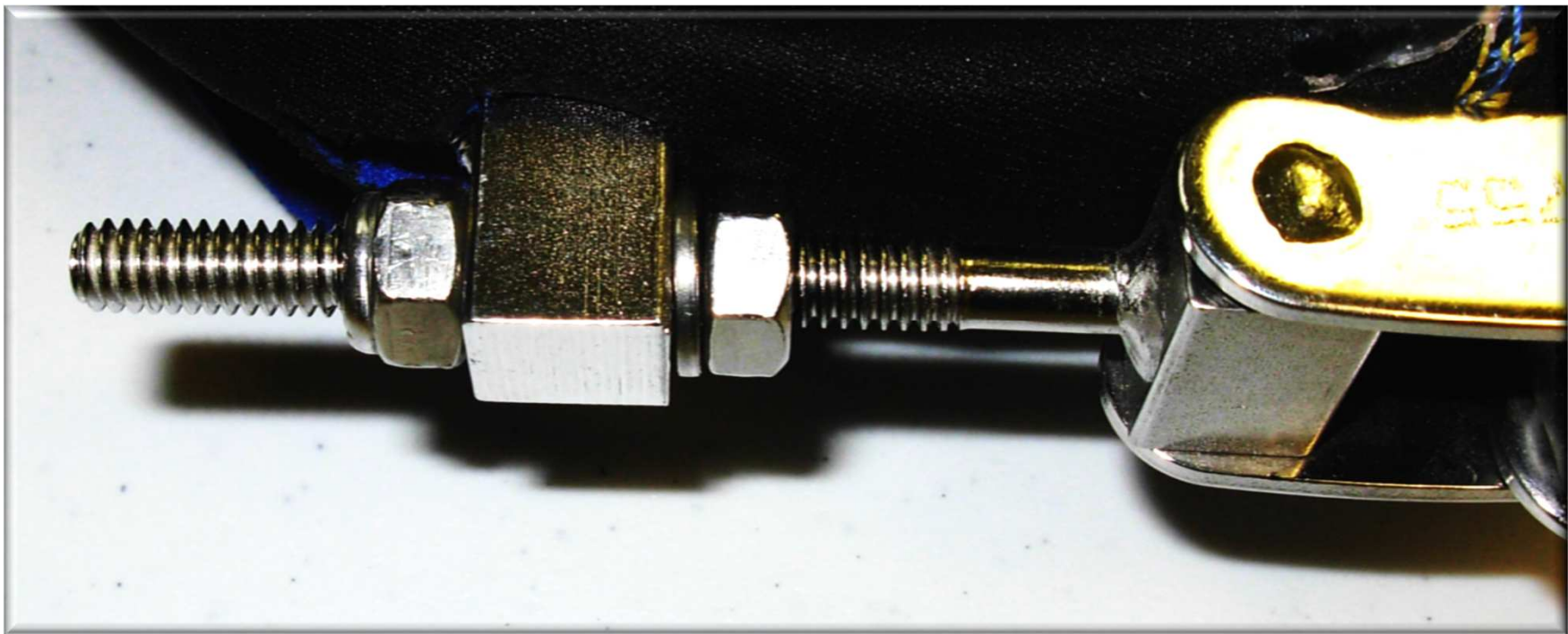




SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- When tightening do not over torque adjustment stud, this can weaken stud





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Check the Rear Hinge Tab and Hinge for signs of cracking, bending, distortion, and/or loose screw fastener





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Ensure hinge tab and alignment stud align properly





SL 17A/B YOKE / NECK CLAMP ASSEMBLY Helmet Attachment Components



- 2 types of latch catch mechanism
- Old plunger type and the new pull type Latch Catch Mechanism

**Current Model
Introduced 1987**





SL 17A/B YOKE/NECK CLAMP ASSEMBLY Helmet Attachment Components



Original Should be removed
from service



Repair parts no longer available

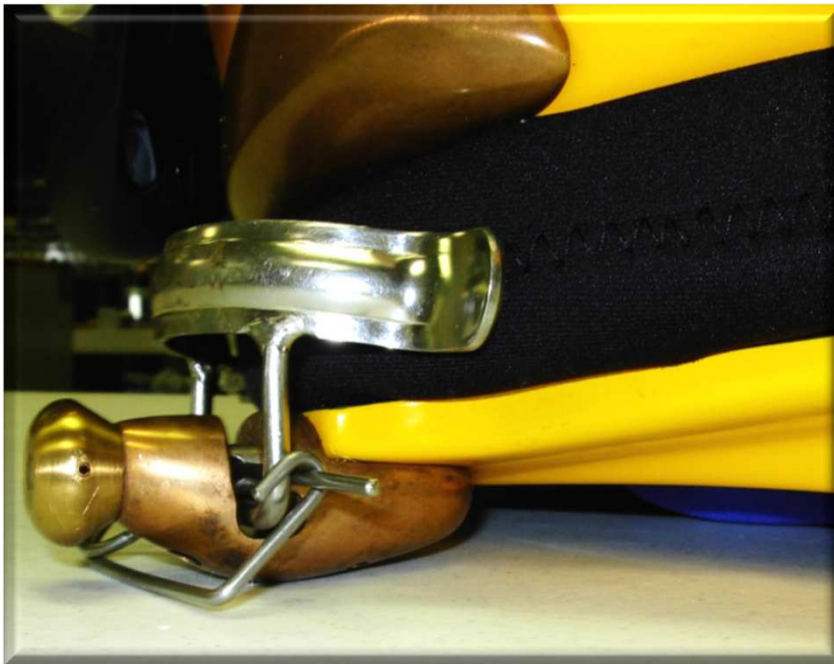




SL 17A/B YOKE/NECK CLAMP ASSEMBLY Helmet Attachment Components



Current Model





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Check for worn and/or damaged parts, as well as loose and / or missing screws





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Check the Latch Catch Assembly for proper operation
- Ensure the proper Safety Pin is present





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



- Test-mate the Yoke/Neck Clamp to the Helmet, check for proper clamp adjustment and smooth operation





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- To properly adjust, use a 7/16" open-end wrench on nut as a back-up wrench, and a 7/16" deep well socket on the lock Nut





SL 17A/B YOKE/NECK CLAMP ASSEMBLY



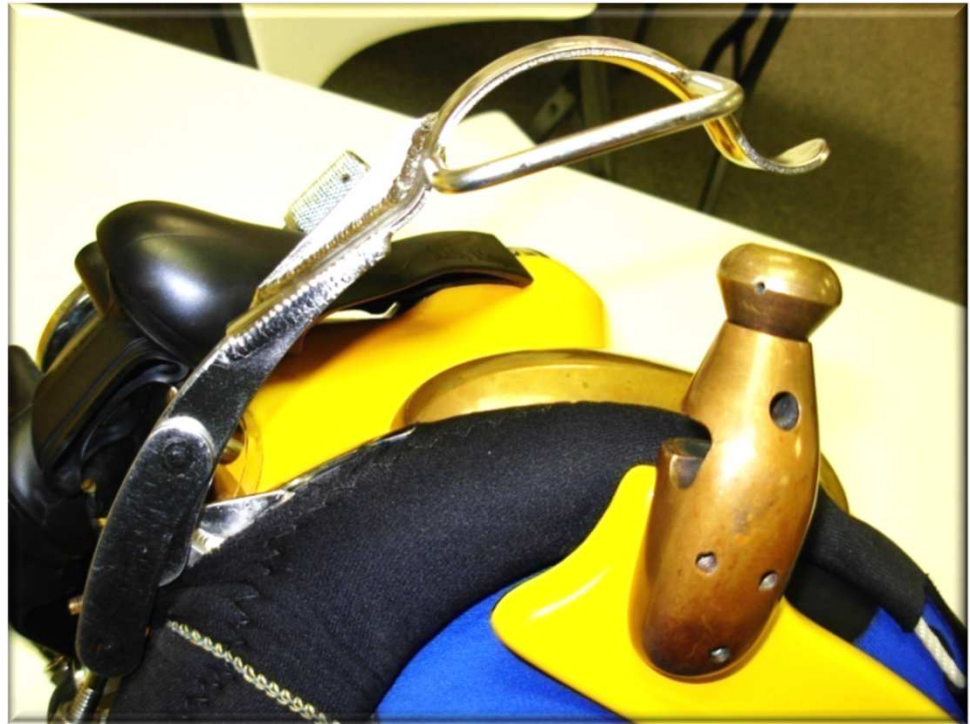
- Demonstrate proper installation of the Neck Dam
- Demonstrate how the Tender and Supervisor should check, (Pull / Push between Demand Regulator and Clamp Bail)



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- A properly adjusted Neck Clamp should have, 1 ½"-2" inch snap back "
- Adjust as necessary;
Guidance O & M Manual





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