



OCEAN TECHNOLOGY SYSTEMS

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OTS Hi-Use Connector Maintenance

Materials needed:

OTS Bench Maintenance Kit (900486-000)
Silicone Grease

Routine Inspection and Cleaning

- Inspect all connectors before use, especially before diving.
- Clean connectors thoroughly to remove any contaminants. Connectors exposed to sand, dirt, mud, or grit must be cleaned before engagement.
- Use discretion to determine whether a simple rinse is sufficient or if more thorough cleaning is required.
- Recommended cleaning tools include:
 - Connector cleaning brushes (black) for socket debris removal
 - Double-ended or plastic bristle brushes for cleaning posts and contact surfaces
- Pressurized air may be used to blow off larger contaminants

Corrosion Treatment

- If oxidation is present—particularly in the sockets—apply a small amount of DeoxIT Cleaner.
- Allow to soak for several minutes, adjusting duration based on severity.
- Use connector cleaning brushes and precision foam swabs to remove corrosion. Repeat as needed until clean.

Lubrication

- Once cleaned, apply a small amount of silicone grease to the sockets. This will lubricate the posts during diving operations.
- Avoid over-application; wipe away any excess grease.
- Frequency of lubrication should be determined by inspection, as environmental conditions vary widely.

Operational Precautions

- Silicone lubrication can attract debris; ensure connectors are free of contaminants before engagement.
- Do not disconnect connectors underwater—especially in saltwater environments—while hardwire communication equipment is active. This may cause audio squealing and damage connector pins at the umbilical interface.
- Connectors should engage and disengage with moderate force. If resistance is excessive, inspect for debris or damage.

