Bight Release Hook Instruction Manual

Revision: 1
Date: 03/02/2016
Written: JH

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Manual Index

Revision History

Revision	Date	Comments	Written by	Checked by
1	03/02/2016	Intitial Release	J.Halford	M.Sprague

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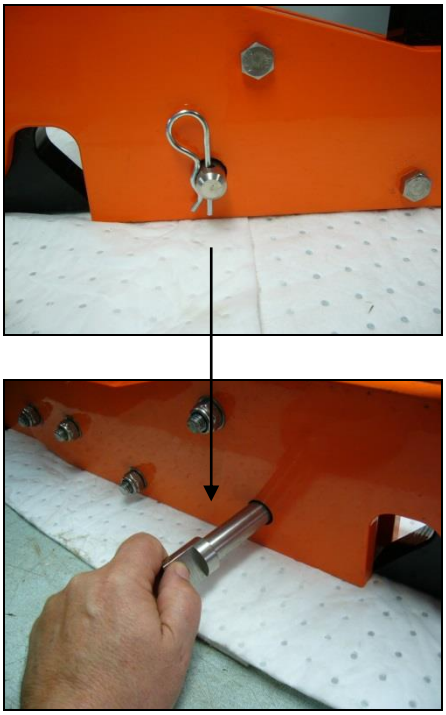
Section 1 – Bight Release Hook Set-up

1) Remove the ‘R’ Pin from the locking pin and withdraw



2) Using an Allen Key remove the bolt from the trigger release unit.

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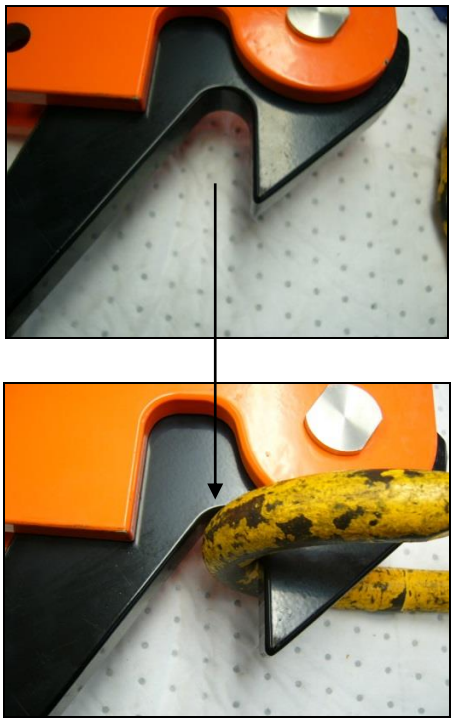
3) Rotate the Jaw and load the master link into the jaw



4) Return the jaw into the body of the BRH and secure in position using the trigger arm

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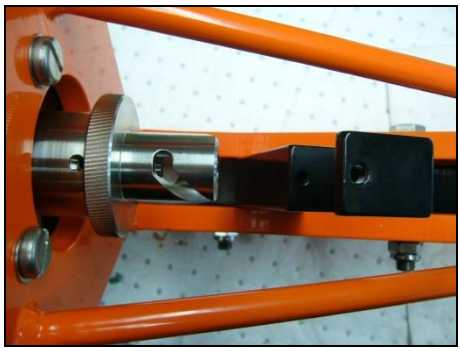
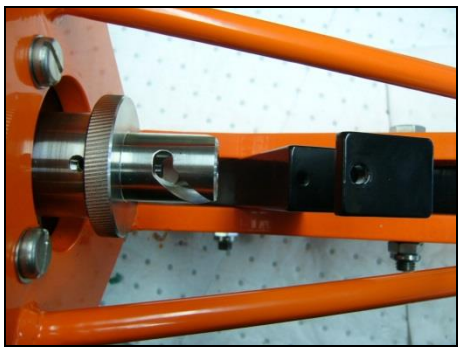
5) Rotate the helical release on the transponder until the Allen bolt can be inserted



6) Ensure that the Allen bolt is located on the flat section of the helical release



7) Reposition the locking pin and secure using ‘R’ Pin

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8) Retain Locking pin in position until return to deploy.

9) Once overboard remove locking pin. Attach Lanyard to “R” Pin and Locking pin to maintain a safe distance

Section 2 - Setting Up PAM Unit for Release

1) Connect AC to DC Power lead to DC In on the Pam Unit

2) Connect Dunking Transducer or Test Transducer to Transducer socket on Pam Unit

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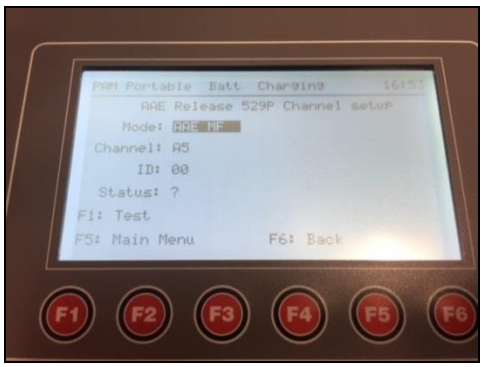
3) Turn on Pam Unit by depressing ON button

4) On Main Menu screen press F3 to release area

5) Select F1 Release 529P

6) Check Set up by selecting F1



Set up should be Channel 5, ID00

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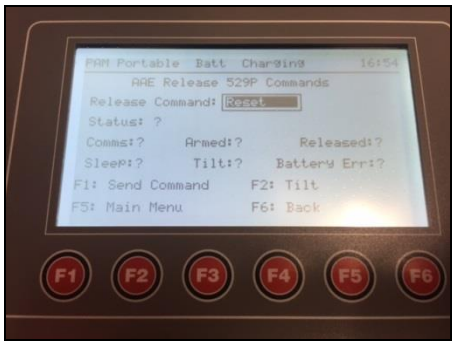
7) Press F6 to Return to Main Release Screen

8) Press F2 to Release function

9) Press enter to open release command area

10) Scroll to RESET and press enter



11) Press F1 to send signal to reset

12) Scroll to ARM and press enter

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13) Press F1 to send command signal to Arm

14) Scroll to RELEASE and press enter

15) Press F1 to send command signal to Release

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Section 3 – Bight Release Hook Datasheet

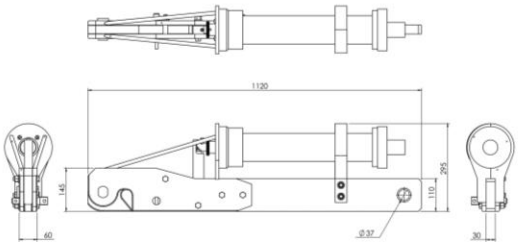
Acoustic 10t Release Hook ARH - 2.0

The 10t Release Hook offers a new method of wirelessly separating an underwater load from its crane. By using acoustics, rather than divers or ROVs with cutting equipment, this method has the potential to both reduce risk and save time.

The Release Hook consists of a heavy duty strong back and lever system that amplifies the load capability of an Applied Acoustics' 529P Release beacon, and a standard AAE surface control unit, typically a 3510 PAM Portable. Once the load is in position a remote acoustic signal received from the surface unit triggers the hinged hook to open, releasing the load, allowing the frame unit itself to be recovered in its entirety for re-use.

Useful for bight release applications in the cable laying and repair industry, this acoustic Release Hook is also suited for coastal construction operations on wind farm sites, lowering work baskets or other subsea structures, separating lift bags from their loads or as a method of marking subsea infrastructures that are at risk of damage from surface activity.

Dimensional Data



Features:

- **10 tonne release capability**
- **Commanded by 3510 PAM or 2520 PAM, Easytrak Lite or Nexus USBL**
- **Positive lever drive off with load assist release**
- **Upgrade option for existing 529P beacons**

Applications:

- Cable work operations
- Crane and winch wire detachment
- Submerged buoy recovery
- Complementary to lift bag operations

Specification

Part number: 0001 - 1117

HOOK SPECIFICATION:

SWL	10t (including 4 x factor of safety)
Operating depth	1000m
Weight in air	60kg
Weight in water	40kg
Overall length	112cms
Maximum height (inc cage)	120cms
Master link part number	Gunnebo M-1613-10

529P ACOUSTIC RELEASE BEACON

Housing material; hard anodised aluminium

BATTERY

Type	Alkaline (Set of 3; Rx, Tx, Motor)
Listening life	4 months
Releases	70

TWO-WAY COMMUNICATION

Frequency	MF, 17 to 32kHz
Status telemetry	Acknowledge arm, Acknowledge release, Battery
Commands	Arm, Release, Battery Status, ID Commands, Tilt

COMPATIBILITY AND CONFIGURATION

Internally configured Command/Control	16 identities

TOPSIDE CONTROL 3510 PAM PORTABLE

Case size	390 x 310 x 170mm	
Weight	5kg	
Temperature	Storage Operation	-20°C to +60°C 0°C to +40°C
External power supply	Input Output	100-240Vac, 50-60Hz 24Vdc
Battery life	6 hours	

3190 DUNKING TRANSDUCER

Robust stainless steel transducer with integral cable and transducer protection cage. Operation subsea with ranging, relocation, acoustic release and telemetry.

Size	100mm Ø x 276.5mm excluding cable relief
Weight	8.5kg
Cable length (attached)	30m standard
Depth rating	50m

COMPATIBILITY

3510 PAM Portable, 2520 PAM
Easytrak Lite
Easytrak Nexus

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