

STANDARD OPERATING PROCEDURES
Rescue Basket

Revision date: 2 March 2004

1. Description

The primary purpose of the Rescue Basket is to extract from the water a survivor who is physically able to get into the basket without assistance from a Rescue Swimmer. It may also be used to recover a survivor in the water in rough sea conditions

The rescue Basket is designed to be deployed as the “first choice” in the rescue of survivors. In addition to sea rescue, the basket can be deployed onto land in mud or snow and certain in mountain rescue operation. It is idea fir the safe hoisting of children and elderly survivors.

A maximum of two adults can be hoisted in the basket

A Rescue Swimmer or any competent swimmer can assist the survivor to get into the Rescue Basket. No special training is required.

Definitions

Crew	Air Sea Rescue crew that are part of the National Sea Rescue Institute ASR Unit
ASR	Air Sea Rescue
RS	ASR Rescue Swimmer
TS	Rescue Basket

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2. Equipment

RS will be dressed in a wetsuit and booties.
Hood and gloves are optional.
Harness and life jacket joined by a carabineer
Attached to the harness is a short sling and snap hook, clipped back onto the harness.
Fins and Mask
Rescue Basket

3. Training Requirements

Pool Training	4 per year
	Must be logged in log book
Airborne	2 per year
	Must be logged in log book

4. Safety Requirements

A safety boat must be in attendance during training
Medic with jump bag – min. qualification: Basic Paramedic

5. Procedure

Rescue Basket Pre take off Inspection

Overall condition: Examine for metal fatigue
Check steel locking carabineer is in working order
Check condition of flotation cushions

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Deployment

Helicopter will hover with the survivor in the 2 o'clock position out of rotor wash
The Rescue Basket will be lowered
The helicopter will move in over the survivor and try to get the RB as close as possible to the survivor
Once the survivor manages to get into the basket the hoist operator must first pull in the slack by hand
This ensures that the hoist cable does not snag on the survivor's head
The Rescue basket is hoisted in to the helicopter
RS must assist in recovering the basket from the hoist into the cabin

Deployment of Rescue Swimmer

Helicopter will hover with the survivor in the 2 o'clock position out of rotor wash
The RS will fit fins, mask and snorkel
The RS will climb into the basket
The RS will be hoisted out into the water and placed as close as possible to the survivor
The RS will swim to the survivor and assist the survivor into the basket
The RS will give the signal to hoist in the rescue basket and will ensure that the hoist cable does not snag on the survivor
The helicopter will send out the bare hoist cable and recover the RS

6.4 Risks

The Rescue Basket colliding with the survivor on deployment
The hoist cable can snag on the survivor if too much slack on the cable

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Maintenance, Inspection and Repair

Rescue Basket #449-M Life Saving Systems LSC
www.lifesavingsystems.com

Inspection

Every 30 days, and after each use, carefully inspect the following:

- A. Main Cable (load bearing) at all four(4) hinge points and at centre of bails for broken strands, corrosion and wear. Replace cable if any signs of wear or damage are present.
- B. Frame assembly and bails for broken welds, bends (deformation, corrosion and abrasion)
- C. Check float covers, floats and plastic net for cuts, tears, abrasion and any other visible damage

Repair or replace as required

Repair and Maintenance

All weld repairs shall be TIG welded by qualified welders only. Only minor repairs should be performed in the field.

Remove cable prior to weld repairs as internal arcing could occur between frame and cable, causing damage to the cable.

After use or as required. Thoroughly wash entire basket with fresh soapy water. Flush clean, fresh water through all tubing that has the main cable routed through it. Ensure that the drain holes (4) located at the bottom of the main frame are open. With a light machine oil, lubricate the ¼” cable at the bail hinge points.

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Cable Replacement

WARNING

- 1 Failure to properly compress sleeves will result in a catastrophic failure of the Basket.
- 2 Use only the proper swaging tool, oval compression sleeve and Go/ No – Go gauges for ¼” cable.
- 3 Check all compressed areas (3 per oval compression sleeve, 2 per stop sleeve) for proper compression with (.587) Go / No-Go gauge upon completion of installation.
- 4 Do not attempt to remove miss-positioned compression sleeve as cable damage will result.

NOTE

1 Please read all instructions and review Fig 1 prior to assembly. Compression sleeves that are slightly oversized after compression can be re-compressed after tool adjustment. Re-compression must be positioned over previously compressed areas. Only compression sleeves that pass the Go/ No-Go gauge test shall be considered safe.

To replace the main cable, carefully cut the old cable at the top of the bails on both sides, opposite to the compression sleeve and cable stop. Remove the old cable and inspect fair leads and interior of tubing for excessive wear or corrosion. Clean or repair as necessary. Replace cable with LSC part#499-4 only. Route the new cable point prior to completing the rigging of that bail. For compression sleeve placement, extend approximately 2” of cable through the cable slot of the bail attachment point. Slide sleeve on the 2” section. Withdraw cable from bail tube section that leads up to the sleeve side of the bail. Work all remaining slack out of the cable and hold the cable with needle-nose pliers where it exits from the fair-lead on the corner loading to the sleeve side of the bail. Hold sleeve so that the 2” section of cable is on the top hole of the compression sleeve. Bend the cable with sleeve to align with top fair-lead of the bail tube. Extend cable from bail tube by pushing the bail tube down the cable towards the needle-nose pliers. Position cable ends so that approximately one-quarter inch (¼”) of the cable extends from both ends of the compression sleeve. This will ensure the proper amount of cable remains visible after crimping. With the cable held in this position crimp the sleeve with appropriate ¼” crimping tool in four equally

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spaced areas on the sleeve. After crimping inspect to ensure that the cable remains within 3/16" +/- 1/16" of each end of the sleeve. If not, a new cable must be installed. Next, grasping bails, pull up on each bail to ensure that slack in the cable is evenly distributed between both bails. IF necessary, adjust slack between bails back and forth until slack is even. Centre the cable stop, then crimp the cable stop in 2 equally spaced areas. Check all crimped areas with Go/No-Go gauges (.587") for 1/4" sleeves. Appropriate gauge must slide over the crimped areas; if it does not, further crimping is required. Load test the Basket by hoisting clear of the floor with 600 lbs. equally distributed in the bottom of the Basket.

Replacement Parts from LSC Systems

- Part #499-1 Plastic Net Basket
- Part #499-2 Floats w/Covers, pair
- Part #499-3 Float Covers only, pair
- Part #499-4 Cable, 1/4" Stainless Steel
- Part #499-5 Bail Assembly. ea
- Part #499-6 1/16" Bail restraint
- Part #499-7 Bail Clip Retainer