

Aviation Rescue Swimmer Course

ALTERNATE RESCUE DEVICES

LT. 4.4

INTRODUCTION

- During this unit of instruction the Rescue Swimmer will learn the alternate rescue devices used in different rescue scenarios. The various equipment listed below will aid the Rescue Swimmer in these situations. Along with knowing this equipment, the Rescue Swimmer will become familiar with the maintenance requirements before using the gear.

OBJECTIVES

- State the requirements for maintenance of emergency rescue equipment per NAVAIR 13-1-6 series and current maintenance requirement cards. (MRC's)
- Describe the functional operation of the following Emergency Rescue Equipment per NWP 3-50.1:

OBJECTIVES

- Helicopter Rescue Equipment Case (BGU-8/N)
- Hoisting Gloves
- Crewman Safety Belt
- Cable Grip (Chicago Grip)
- Chemical Lights
- Chemical Lights Strap

OBJECTIVES

- Rescue Litter Sling Assembly
- Hoist Quick Splice
- Pneumatic Rescue Hand Tool /
Handheld Cable Cutter
- Blanket
- Cranial Assembly
- Level A Medical Kit

Helicopter Rescue Equipment Case (BGU-8/N)

- Has 10 labeled pockets for storage of helicopter rescue equipment.
- Can be secured from support rails, tie down rings, etc., inside the cabin of the helicopter.
- Items found in this case will be discussed in order from top to bottom throughout in the lecture.

Chemical Lights

- Two types currently in use:
 - 30 minute high-intensity
 - 12 hour general purpose
- Self contained, compact, easily stored.
- Emit Omni-directional light.
- Windproof, waterproof, nonflammable and require no batteries.

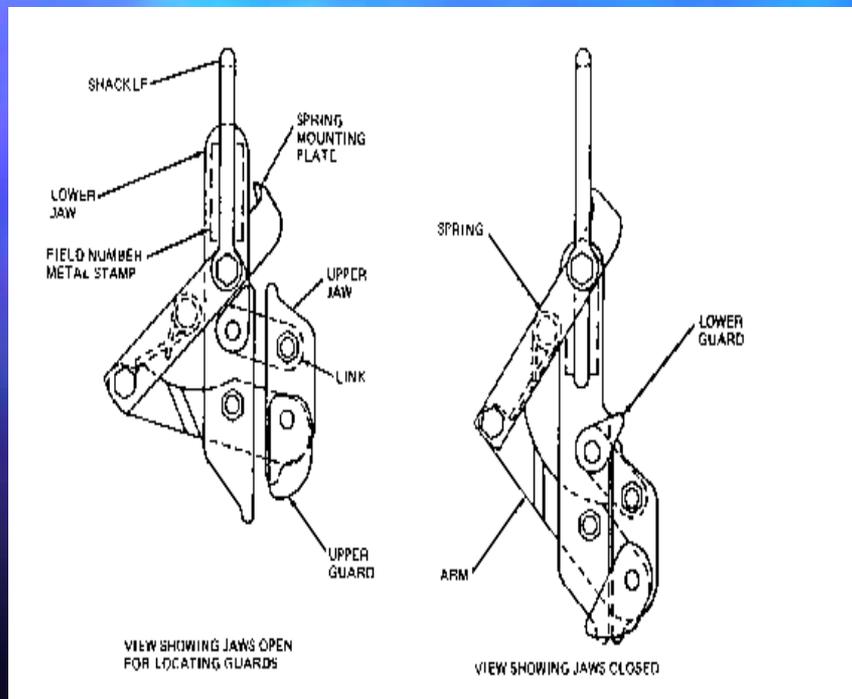
Crewman Safety Belt

WARNING

Crewman safety belts shall not be worn when strapped into a seat.

- Primarily used as a safety device by the crew while performing hoisting operations in the aircraft doorway.
- Provided with pull tabs and adapters for size adjustment.
- Latch-link assembly for easy donning.
- Meshed to the back of the belt is a length adjustable nylon strap with a snap hook for attachment to a tie down fitting.

Cable Grip (Chicago Grip)



- Used in the event of a hoist drum malfunction or a bird's nest to hoist cable.
- Capable of supporting 1,000 lbs.
- Attaches to crewman safety belt to take weight off hoist assembly during a hoist failure.
- Procedures for use can be found in chapter 1 of NWP 3-50.1 series.

Chemical Light Strap

- Nylon strap with three snap hooks.
- One snap hook on each end and one in the middle.

Hoisting Gloves

- Made of heavy-duty leather.
- Used to prevent injuries to crew chief's hands while guiding hoisting cable.

Rescue Litter Sling

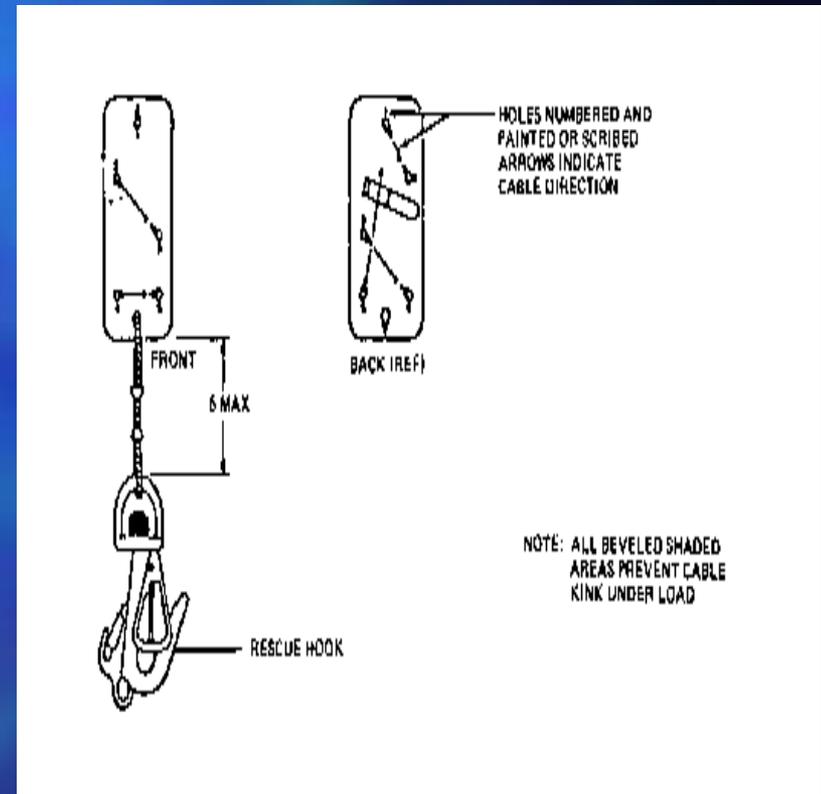
- Consists of two sets of two 5/32-inch cables.
- One set for each side of litter.
- Each set consists of a lifting ring and two locking carabineers.

CAUTION

Attach short legs (red colored carabiners) to the head end of litter and attach long legs (white colored carabiners) to the foot end of litter when attaching sling assembly to the rescue litter.

Hoist Quick Splice Plate

- Flat rectangular aluminum plate with rounded corners and attached double rescue hook.
- Used when hoist cable breaks or has been cut.
- Bitter end of the severed cable is threaded through five numbered holes and secured with a stainless steel clip.
- Procedures for use can be found in Chapter 1 of the NWP 3-50.1 series.



Pneumatic Tool

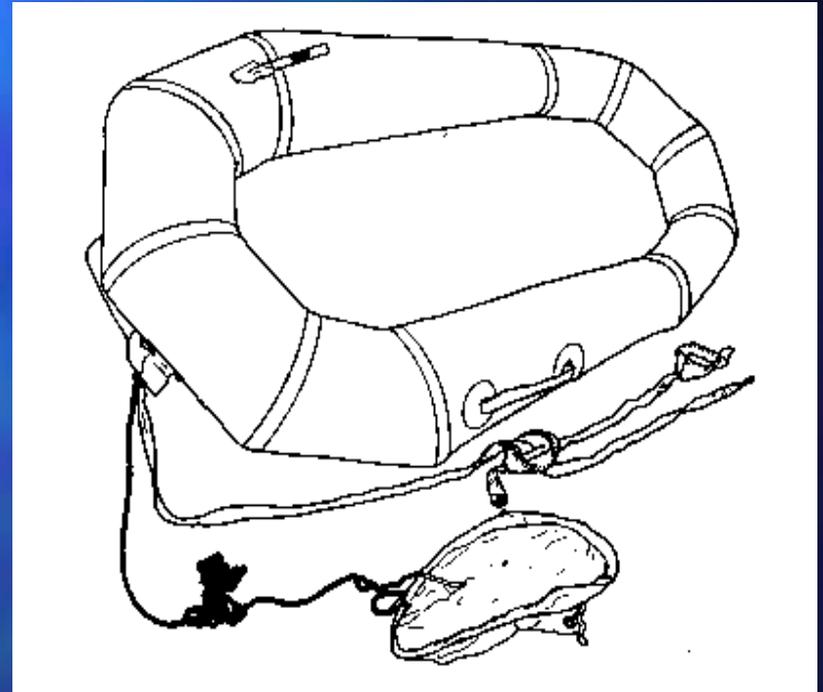
- Designed for cutting heavy webbing.
- Can be used by rescue swimmer for cutting parachute risers.
- Has jaw for prying open or breaking canopies.
- Contains a 3000 psi nitrogen cartridge in the handle chamber.
- Procedures for use can be found in chapter 1 of NWP 3-50.1 series.
- Hand-held Cable Cutter can be used as a replacement.

Blanket and Cranial Assembly

- Blanket
 - Standard wool blanket 6x8 ft.
 - Used for treatment of hypothermia.
- Cranial Assembly
 - Cloth helmet with chinstrap designed to incorporate protective devices.
 - Rigid plastic with cushion liners that snap on for head protection.
 - Sound attenuators for hearing protection.
 - Goggles for eye protection.

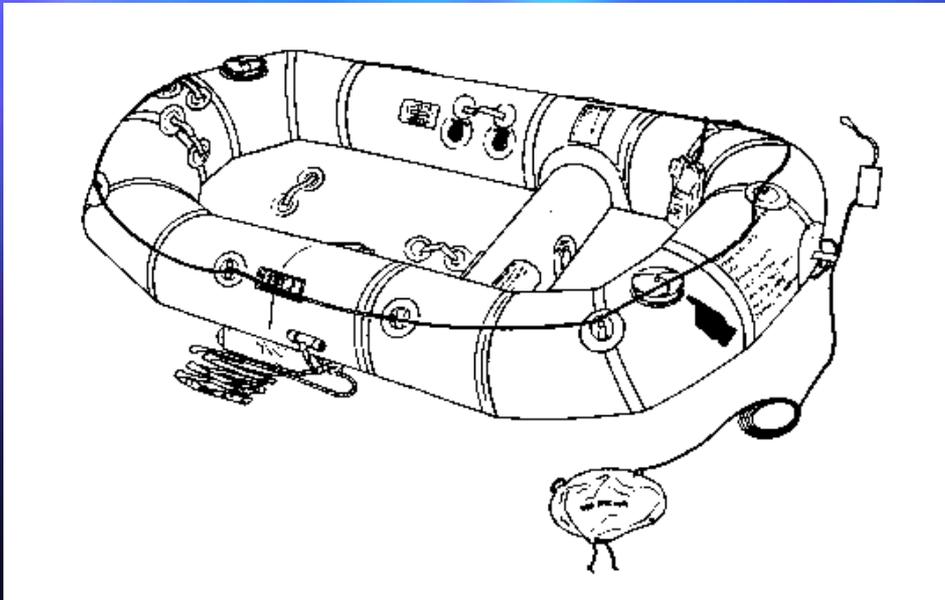
Life Rafts

- Used when numerous survivors are at the rescue scene.
- Can support four times the rated capacity if survivors are placed around outside of raft.
- Can also be used for staging survivors during disentanglement.
- Discard life raft if it becomes a hindrance to the rescue.
- Discard rafts by puncturing prior to leaving scene.



Life Rafts

LRU-12/14

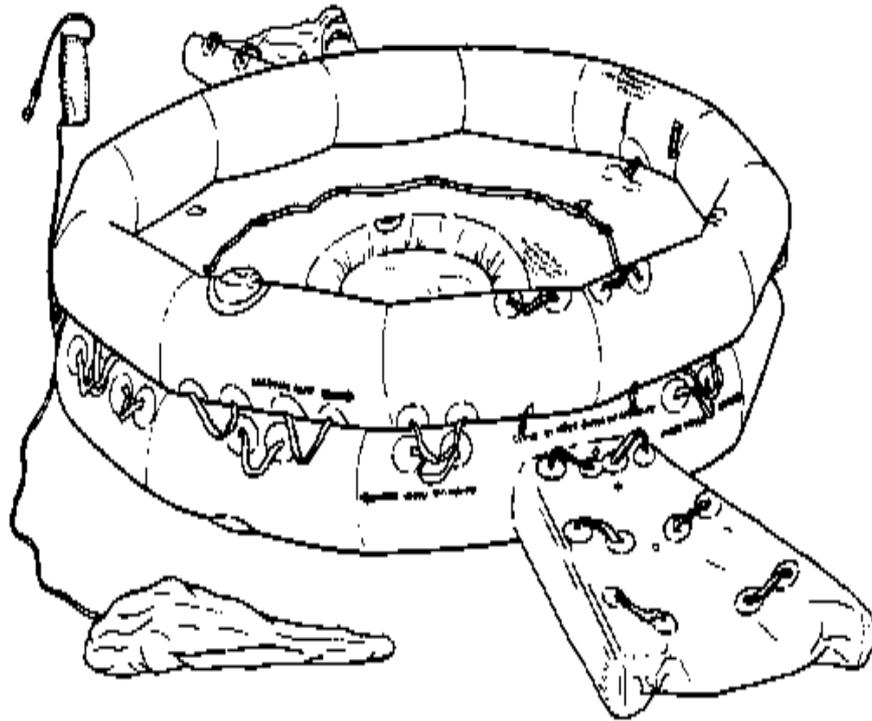


Note

An empty floating raft could start an unnecessary rescue effort.

Life Rafts

LRU 15



Warning

Rotor wash could blow an empty floating raft into the helicopter rotor system

Level "A" Medical Kit

- Designed to be used by the rescue swimmer and the crew chief.
- Carried on all SAR capable helicopters.
- Rescue Swimmer shall have a working knowledge of all contents.

Questions

- How many holes are incorporated into the Quick Slice Plate?

Five

- Life Rafts can support how many people?

Four times the rated capacity

Questions?

