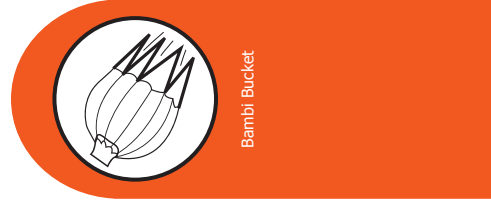
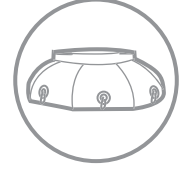


MARINE RECOVERY DEVICE MANUAL



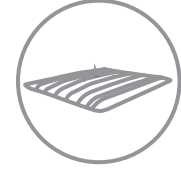
Bambi Bucket



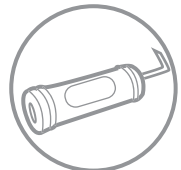
Fireflex



Dragon



Remote Site



Environmental



Emergency Response



MARINE RECOVERY DEVICE MANUAL - Version C

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PLEASE READ BEFORE USING.

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Bambi Bucket Marine Recovery Device Manual (Version C)

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Section 1: Marine Recovery Overview

Description

Description

During firefighting operations, certain emergency circumstances may require the release of the Bambi bucket.

The Marine Recovery Device (MRD) is specifically designed to decrease the potential loss of Bambi buckets dropped over water sources. Easy to install, the MRD is a cost-effective device that will automatically deploy a float, stored inside the MRD, when the bucket hits the water. This recovery float will guide the crew to the exact location of the submerged bucket.

Once the Bambi bucket has been retrieved, the MRD can be repacked, ready for the next heli-bucketing mission.

Features

- Easy to install.
- Simple to operate.
- Easy to maintain.
- Re-usable.
- Compact for easy storage.
- Lightweight.



The Marine Recovery Device is designed to retrieve Bambi buckets that have been released over water.

Specifications

The MRD is available in two sizes which are compatible with the entire Bambi bucket size range.

- **MRD-1** (models 6072-4453) includes 400 feet (122 meters) of recovery cord.
- **MRD-2** (models 5566HD-HL9800) includes 600 feet (182 meters) of recovery cord.

The standard recovery depth is 400' (122 m). However, deep water models can be customized to suit specific operational needs. The MRD is packed within a pouch that is made from mildew resistant material. Each MRD is easily attached with snaps and slip buckles.



Components



Section 2: Installation and Operation

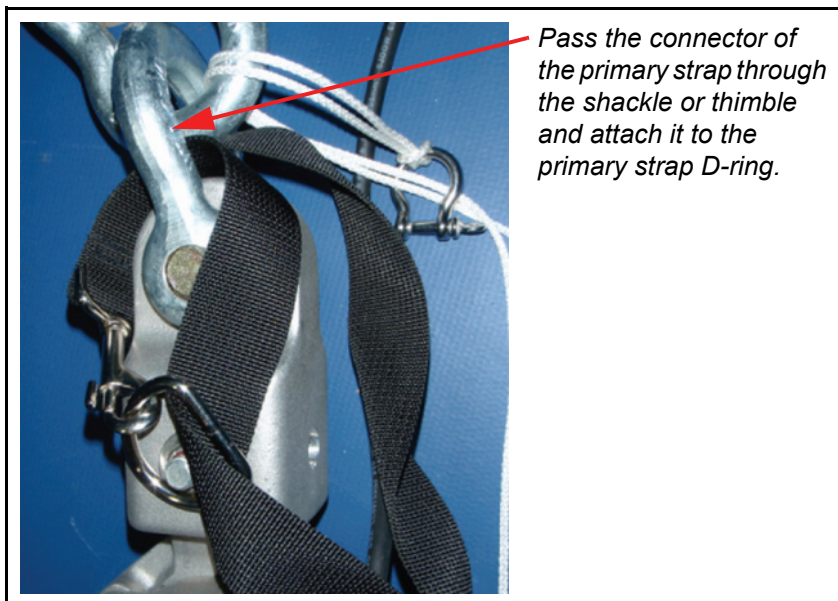
Installation Instructions

These instructions apply to helicopter operators connecting the Bambi bucket directly to the aircraft primary hook or to a longline.

1. Attach the breakaway cord to a secure part of the helicopter, such as directly to an attachment point on the belly of the aircraft, or to the primary hook. The breakaway cord must be attached to a hard point that will not fall if the Bambi bucket or longline rigging is released. The breakaway cord ensures that the MRD pouch will open and the recovery float will be released when the load begins to sink.
2. The primary strap ensures the MRD is attached securely to the Bambi bucket and that the MRD falls with the entire rigging. Attach the primary strap to the Bambi bucket top shackle or, if a longline is used, through the top loop (thimble) of the longline at the aircraft belly. Pass the connector of the primary strap through the shackle or thimble and attach it to the primary strap D-ring.

Important Note

When using a longline, the MRD must be installed at the point of release, not at the Bambi bucket control head.



3. Attach both of the buckles found on the side of the MRD around a Bambi bucket suspension line or, if using a longline, attach the buckles around the longline. This ensures the MRD is secure to the Bambi bucket or longline during flight. Tighten these buckles closely around the suspension line or longline.
4. Attach the recovery cord shackle directly to the same suspension line or to the longline. Tighten securely.



Operating the MRD

When the bucket is released, the weight of the rigging will break the white nylon straps that secure the MRD pouch closed during normal operation. As the rigging hits the water and sinks, the recovery float, stored in the top of the pouch, will release. The recovery cord will remain attached to the sinking bucket (or longline rig) and play out from the pouch (the cord is attached to the float). The float will alert the recovery crew to the location of the submerged bucket.

Important Note

If the bucket is not dropped over water, the float may not be released from the MRD pouch.

Important Note

If dropped into water that is too deep, the MRD float will not be visible on the surface.

The MRD recovery cord can be used to bring the bucket to the surface. Do not haul the bucket out of the water or tow it with the cord. Pull the bucket out by hand or attach a tow strap to the bottom chain of the bucket shell to retrieve it.

Section 3: Safety Checks

Safety Checklist

- Check the white nylon straps before every mission. Replace, if loose or worn.
- Check the recovery cord at the bottom of the MRD before every mission. It should be attached and should not be pulled out.
- Check all snaps and buckles for wear and correct operation. Replace, if needed.
- Check all webbing for wear or tears. Do not use if damaged.
- Check aluminium sleeves and nylon flat washers for wear and tightness.
- The breakaway ropes, recovery ropes and float should always be kept dry and inspected annually.

The MRD has been designed to work as a retrieval device for the Bambi bucket. Please consult SEI Industries for further information on additional applications.