

SOS DAN BUOY

INSTRUCTION MANUAL

DESIGNED BY SOS MARINE, AUSTRALIA

CERTIFIED TO ELEMENTS OF ISO 12042
INTERNATIONAL PATENT PCT/AU2010/000397

WHEN THE SECONDS COUNT DON'T BE SECOND BEST

Y.A. APPROVED
Model SOS-6375



READY TO GO – MAN OVERBOARD RESCUE

The SOS Dan Buoy is patented man overboard rescue equipment ready for instant deployment.

The ultra fast and reliable self-righting properties ensure that just when time matters most, the SOS Dan Buoy is always ready. It increases vital visibility and buoyancy for the person overboard.

The SOS Dan Buoy system is compact, easy to use and very visible.

It all folds away in an easily stowed carry bag.

SOS Marine is an Australian company improving equipment capabilities and operational readiness for both waterfront professionals and the marine leisure industry.

SOS Marine's products represent a new approach in design to the methods currently used. SOS is one of the few worldwide companies to purpose design and manufacture personal marine safety equipment. We supply safety equipment to 12 defence forces worldwide.



SOS Marine's Dan Buoy is a compact, self-contained device, specifically designed to make rescue and recovery a simpler operation. There is no need to set or activate the SOS Dan Buoy – just throw it into the water, towards the person overboard.

Throw the SOS Dan Buoy into the water and within seconds of immersion it inflates, and stands 2.0 metres above the waterline, highly visible up to 1,700 metres. *(Figures 1 & 2)*

SOS Dan buoy has webbing loops, allowing the person to put their arms around the marker to help support them when fatigued. This gives extra support and security while awaiting rescue. *(Figure 3)*

SOS MARINE'S Dan Buoy is a portable rescue device, that is easy to handle in all geographic locations. This compact safety device employs the same mechanism as an inflatable lifejacket; it can be reused by replacing just one cylinder and activation cartridge.



1



2



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Thank you for your purchase of **SOS Marine's Dan Buoy**, a high quality, patented safety device, manufactured by SOS Marine, Australia.

IMPORTANT INFORMATION

The information contained within this manual provides all necessary details you need to fit, service, re-arm and store your SOS Dan Buoy rescue marker.

It is important that you understand thoroughly your SOS Dan Buoy, its features and how to ensure it performs as intended throughout its working life.

Please read this leaflet carefully and keep it in a safe and accessible place.



FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD IMPAIR THE PERFORMANCE OF THE SOS DAN BUOY. OWNING THIS BUOYANCY AID IS NOT A GUARANTEE OF SAFETY UNLESS YOU KNOW HOW TO USE IT.

SERVICING INSTRUCTIONS FOR YOUR SOS MARINE DAN BUOY

NOTE: Under no circumstances should you try to repair SOS Dan Buoy yourself. If you are in any doubt regarding the serviceability of your Dan Buoy it should either be replaced or returned for testing and repair.

Your SOS Dan Buoy is an important piece of safety equipment. Please visit our website to ask about our regular repairs and servicing. www.danbuoy.com

The SOS Inflatable Dan Buoy should be serviced once every 12 months. Return the SOS Dan Buoy to SOS Marine or, alternatively, use our authorised service agents for complete authorised annual servicing and repairs.

Email: ron@sosmarine.com.au for your service requirements.

NOTE: The use of this marker does not guarantee the safety and ultimate rescue, but the SOS Dan Buoy marker may afford support in the water. The effectiveness of SOS Dan Buoy marker is considerably reduced in rough or breaking seas and surf.

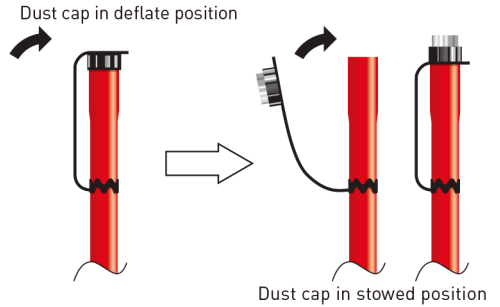
STORAGE

Store the marker in a dry, well ventilated area. It must not be subjected to extremes of temperature above + 60°C or below - 30°C. Do not expose the marker to bright sunlight for extended periods when not in use. It should not be stored in compressed or cramped conditions which may cause damage or deterioration. It is crucial that your Dan Buoy is folded correctly at all times when not in use in order to protect the internal components.

The SOS Dan Buoy is easy and simple to use – just throw it to the person overboard.

DEFLATING SOS MARINE DAN BUOY AFTER USE

1. Reverse the valve cap on top of the oral inflation tube and hold it in the valve.
2. Squeeze the bladder to expel the air.
3. When as much gas as possible has been expelled, re-inflate the bladder by mouth. This reduces the concentration of any remaining CO².
4. Squeeze the bladder a second time. The last of the gas/air mixture can then be squeezed out through the inflation tube without causing discomfort.
5. The bladder should now be completely deflated so that it will fold as it was before use.
6. Replace the valve cap in its normal position.



SOS DAN BUOY DIFFERENCE

There is also a service reminder inside the flap.

Service Window

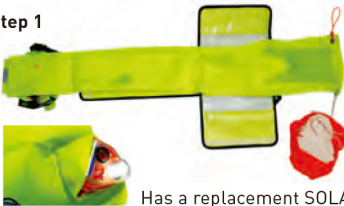
This provides the added benefit of detecting, at a glance, that the SOS Dan Buoy is set to go.



RE-PACKING THE SOS MARINE DAN BUOY

Please follow these instructions and diagrams

Step 1



Has a replacement SOLAS light

Step 2



Step 3



Step 4



Step 5



Step 6



Step 7



Step 8



Your SOS Dan Buoy is ready for use.

Please visit www.danbuoy.com if you require further technical information

RE-PACKING THE SEA ANCHOR FOR YOUR SOS MARINE DAN BUOY

Please follow these instructions and diagrams



Step 1



Step 2



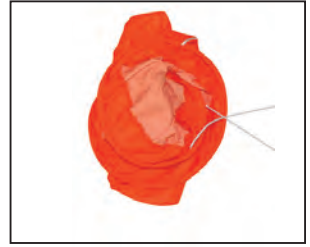
Step 3



Step 4



Step 5



Step 6

RE-PACKING THE SOS MARINE DAN BUOY

1. Before re-packing, inspect to ensure that the CO₂ cylinder and automatic valve, manual pull safety toggle and mouthpiece dust cap are set up for operation, that both green sensing elements are armed and that the marker is completely deflated to enable it to be folded.
2. Folding: before re-packing make sure that the inflation valve on the marker is centred inside the inspection window on the valise and both green sensing elements are showing.
3. Fold and place the sea anchor on top of the marker making sure that the anchor is attached to the marker.
4. Fold the marker weight over on top of the sea anchor making sure that the anchor loop on the other side of the marker weight is protruding outside of the valise.
5. Lay the inflatable tube marker on top of the weight and then, from the bottom up, fold in a pleat configuration the inflatable tube, making sure that all has been neatly folded including the pennant.
6. Fold the two Velcro flaps sides over the marker and secure tightly together and then fold the small flap through the handle to the back, over the side flaps.
7. Fold the longer single flap over the top of them and hold, then fold the longer Velcro flap over and through the valise handle and secure the Velcro flap tightly together.

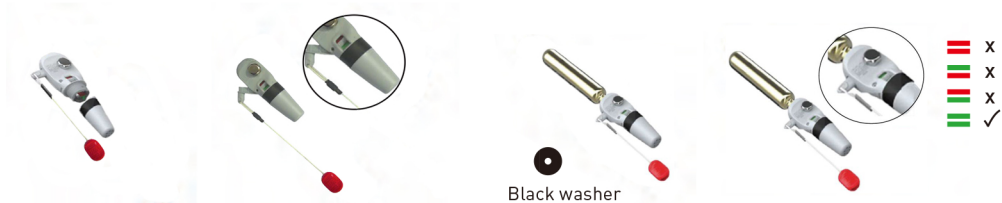
REPACKING INSTRUCTIONS NOTE: Incorrect packing or fitting of incorrect components may result in failure to operate or inflate properly. See the full step by step instructions on our web site: www.danbuoy.com

DISCLAIMER:

Whilst every care has been taken in the production of these instructions the company does not take any responsibility for errors, omissions, or how they are interpreted. www.sosmarine.com

RE-ARM SOS MARINE DAN BUOY

Automatic pro-sensor firing mechanism (UML)



Un-screw anti-clockwise and remove gas cylinder. Whilst the gas cylinder is removed, examine the firing head and rubber gas seal and make sure when testing, that the manual inflation lanyard returns freely and that it is in the closed position. Test its operation by pressing on the cutter pin to see if it travels freely, the unit sensor will show green when testing.

Unscrew anti-clockwise the Automatic inflator head cartridge. If fired replace it with a new cartridge. When replacing, screw right up ensuring there is no gap between the cartridge and the inflator head and then do up hand-tight.

Manually replace the firing arm into the unit. The arm will click into place.

This ensures that the firing lever is captured in the closed position.

Fit a CO² cylinder – **ensuring it has not been fired**. Screw up tight into the firing head.

SPARE PARTS FOR YOUR SOS MARINE DAN BUOY



33 Gram Cylinder

Should be regularly checked

Product Number: SOS-5100-1



Water Activated SOLAS Flashing Light

The SOLAS light is activated upon immersion in water and can be turned off during daylight.

Product Number: SOS-5470



Auto Inflator

Product Number: SOS-6107

IMPORTANT: This inflator can ONLY be fitted with UML Valve.



Automatic Inflation Cartridge

Product Number: SOS-6106

WARNING

If the SOS Dan Buoy has been inflated by the gas cylinder, take care not to inhale the expelled CO² gas.



We've made our mark...

SOS Marine's Dan Buoy is a patented rescue device, incorporating advanced technology, to provide a better opportunity for saving lives. It acts as a marker, clearly identifying the location of a person overboard.

- Rescue Helicopter pilots find deployment of the SOS Dan Buoy an effective and accurate rescue system: when the SOS Dan Buoy is dropped from a helicopter, it indicates wind and current directions.
- In difficult and dangerous rescue operations, deployment of several SOS Dan Buoy's, dropped from a helicopter, assist in the operational timeline.

DESIGN FEATURES

- Ready-to-go man overboard equipment.
- SOS Dan Buoy is packed into a portable valise-compact, ready for use. Tested to elements of ISO 12402.
- Self-contained disposable CO₂ inflation system – the same mechanism as an inflatable lifejacket.
- A large drogue (120cm circumference x 60cm long) to reduce downwind drift. Designed along life raft specifications.
- The SOS Dan Buoy marker allows the person overboard to place their arms through the webbing loops, giving an extra sense of security and stability, especially when fatigued, until help arrives.
- SOS Marine has made every effort to augment visibility. The fluorescent yellow, 2.5 metre streaming ribbon waves back and forth in a breeze, allowing it to be seen up to 1700 metres.
- Fitted with an automatic SOLAS light for night rescues and SOLAS grade high-visibility, retro-reflective tape.
- Easy maintenance and service. Lightweight (weighs 4 kilos) and compact for transport and stowing on all vessels.
- Service Window: provides the added benefit of detecting, at a glance, that the SOS Dan Buoy is set to go. There is also a service reminder inside the flap.
- Reusable and repackable – only requires a 33gram replacement cylinder and an activation cartridge.
- The SOS Dan Buoy has the extra benefit of removing the drogue and attaching an anchor, so it can then be used as a temporary marker for wrecks, channels, and dive or crash sites, at sea.
- SOS Dan Buoy is smaller than a tackle box; extremely beneficial for safety in small boats, like the fisherman's "tinny".
- Watch the SOS Dan Buoy in action at: www.danbuoy.com
- **The ultimate Dan Buoy for all size vessels. Introducing a new level of safety for man overboard.**

SOS MARINE'S DAN BUOY

SOS Dan Buoy's new, patented design is an innovation in equipment capabilities and promotes a higher standard of safety in the marine industry.

SOS Dan Buoy can be easily transported from boat to boat.

SOS Dan Buoy is tested to elements of the lifejacket standard, ISO 12402.

The SOS Dan Buoy can be used in fresh or salt water and, when recovered after use, it can be recharged and repacked for future use.

The high quality and unique design of SOS Marine's products is so well respected, that 12 defence forces worldwide have purchased our safety equipment.



SOS Marine
is an ISO 9001
Approved Company



SOS DAN BUOY – THE FIRST CHOICE FOR A MAN OVERBOARD SITUATION

A MUST FOR THE SKIPPER'S CHECK LIST

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