

WEIGHT & TRIM
CLASSIC SYSTEM
OWNER'S
MANUAL

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## Introduction

#### **DIVING UNLIMITED INTERNATIONAL**

# WEIGHT & TRIM CLASSIC SYSTEM OWNER'S MANUAI

Congratulations on purchasing a DUI Weight & Trim Classic System! The Weight & Trim is different from conventional weight belts in many ways:

- Because it is a harness, it distributes the weight to your shoulders and removes it from your lower back thus alleviating the typical lower back strain often experienced with weight belts
- No more slipping around the waist or having to adjust it underwater
- You can place the weights just where you want them by adjusting the harness up and down and moving the weight pockets forward and back giving you better trim when moving through the water
- Should you need to dump you weights, you can do so one half of the weights at a time
- The weights are on a lanyard making it easy to dump the weights away from your body

Unlike weight integrated BC's, the DUI Weight & Trim Classic System allows you to have your weights separate from your BC and tank making it easier to pick up, put on, remove and change tanks between dives.

Bottom line - the DUI Weight & Classic Trim System is just a more comfortable way to dive!

The DUI Weight & Trim Classic System is intended for use by certified divers or individuals under the direct supervision of a qualified instructor.

Do not use this Weight & Trim Classic System until you have read, understood and followed all instructions and safety precautions in this owner's manual and practiced emergency weight drop skills.

If the owner's manual is unavailable or lost, you can download a copy from the DUI Website at www.DUI-Online.com or a copy may be obtained by contacting DUI at:

Diving Unlimited International, Inc.
1148 Delevan Drive
San Diego, CA 92102-2499 USA
800-325-8439
619-236-1203
6190237-0378 Fax
CustomerService@DUI-Online.com
WWW.DUI-ONLINE.COM



DUI is proud to be ISO 9001:2008 Certified

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# DEFINITIONS OF IMPORTANT WORDS USED IN THIS MANUAL

Throughout this manual we will use certain words to call your attention to conditions, practices, or techniques that may directly affect your safety. Pay particular attention to information introduced by the following signal words:

#### !!! DANGER !!!

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

#### !! WARNING !!

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

#### ! CAUTION!

Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

#### TECHNICAL SUPPORT

If any portion of this manual is unclear, or if you are unable to obtain satisfactory answers from your dive store or instructor, contact DUI at:

Diving Unlimited International, Inc. 1148 Delevan Drive San Diego, CA 92102-2499 USA 800-325-8439 619-236-1203 6190237-0378 Fax CustomerService@DUI-Online.com WWW.DUI-ONLINE.COM



#### IMPORTANT SAFFTY INFORMATION

The Weight & Trim System is intended for use by certified scuba divers or divers in training under the supervision of a qualified instructor.

#### !! WARNING !!

Follow all instructions and heed these safety precautions. Improper use or misuse of your Weight & Trim System could result in serious injury or death.

#### !! WARNING !!

DO NOT USE this unless you have practiced and mastered the weight drop procedures described in this manual.

#### !! WARNING !!

Improper use or misuse of your Weight & Trim System could result in a loss of buoyancy control, including uncontrolled rapid ascent, resulting in decompression sickness, air embolism, forms of diving barotrauma, or other lung overpressure injuries.

#### !! WARNING !!

Rapid ascent is dangerous and may cause air embolism, decompression sickness, forms of barotrauma, or other lung overpressure injuries. These can all result in serious injury or death.

#### !! WARNING !!

Diving in overhead environments, such as ice diving, cave diving, or wreck diving, are all especially hazardous activities. Although your Weight & Trim System may be used for these activities, special equipment, training, and procedures are required. Do not engage in these technical diving activities unless you have been thoroughly trained and specially equipped.



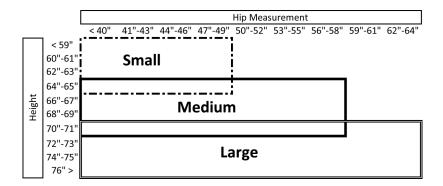
- Read this entire manual before using the Weight & Trim System, even if you
  have experience with other weighting systems. Keep the manual for future
  reference.
- If you resell or loan this equipment to someone, be sure that this manual accompanies the system and is read and understood before the Weight & Trim System is used.
- Failure to follow all warnings and instructions for use and maintenance of the Weight & Trim System may result in serious injury, or in extreme situations, death.
- •This manual is supplied to the original purchaser of the Weight & Trim System. If you have any questions about the use or maintenance of the Weight & Trim System, or if you need another copy of this manual, contact DUI:

Diving Unlimited International, Inc. 1148 Delevan Drive San Diego, CA 92102-2499 USA 800-325-8439 619-236-1203 6190237-0378 Fax CustomerService@DUI-Online.com WWW.DUI-ONLINE.COM



#### SI7ING

The Weight & Trim Classic consists of a harness assembly and two removable weight pockets. For a proper fit the Classic comes in three sizes. The following table can assist in selecting the correct size.



#### CHECKING THE FIT

Load weights into the Weight & Trim Classic and use the following to check the fit:

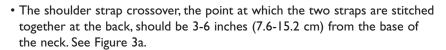
- Set the Weight & Trim Classic on the ground with the back of the unit facing you, waist buckle open.
- · While standing with your arms straight at your sides, cross your straight arms in front of you, so your hands are pointing toward the ground.
- Bend down and grab the harness by the shoulders.
- · Lift the unit from the ground and, with caution, swing the unit to the left or right and onto your shoulders.
- With the weight evenly distributed on each shoulder, fasten the waist belt. The buckle does not need to be worn as snugly as a standard weight belt. The shoulder straps support the weight and determine the position of the belt.
- · Adjust the shoulder strap length by adjusting the height of the slide bars on the shoulder straps. See Figure 1. The top edges of the weight pocket assemblies are to be even with the top edge of the hipbone. Check to see that your weight pockets are in proper alignment by placing your thumb at the top edge of the hipbone

Figure I



on each side. The top edge of the weight pocket assembly should be even with the thumb. See Figure 2. After a few dives, you may find that having the weight pockets higher or lower than this point to be more comfortable for you and provide you with better trim (position) in the water.

- Position of the weight pocket: A good starting point is to align the center of each weight pocket assembly on each side of the body.
- The weight pocket assemblies should not interfere when the legs are lifted. If there is Figure 2 interference, the weight pocket assemblies can be moved back on the waist belt.



• The shoulder strap cross over should not be so high as to cut into the back of the neck - see figure 3b. If the shoulder straps are too low, the straps will have a tendency to fall off the shoulders - see figure 3c.







Figure 3b



Figure 3c



# PREPARING TO DIVE THE WEIGHT & TRIM SYSTEM

# THE ADVANTAGES OF A DUI WEIGHT & TRIM SYSTEM

There are many advantages to using a DUI Weight & Trim System:

Comfort: The DUI Weight & Trim harness distributes the load to the shoulders. This alleviates most lower back discomfort commonly associated with diving.

Slippage/Position: The DUI Weight & Trim System fits loosely around the waist/hip area and the straps are under the BC. It will not slip or rotate during the dive.

Weight Distribution: Although weight integrated BCs are popular today, many do not allow you to wear all of the weight comfortably. You can use the DUI Weight & Trim System to divide up your weight between your weight integrated BC to make your equipment easier and more comfortable to handle

Trim: Proper weight distribution will allow you to achieve proper trim (body placement) in the water. Proper trim will allow you to swim more easily thus using your air more efficiently and controlling your buoyancy.

Achieving trim can take a few dives to find the proper weight placement for you. Finding your trim is easier with the DUI Weight & Trim Systems because they give you greater flexibility in where you wear your weights.

#### ! CAUTION!

There are many subtle components and concepts in the design of DUI Weight & Trim Systems. Do not attempt to copy or modify any of their parts. Improper modification or parts substitution may cause the systems to work improperly and could result in the diver being unable to release weights when needed.



### LOADING THE WEIGHTS

The right and left weight pocket assemblies have two pockets. Each pocket can accept either molded lead weights and/or lead shot packaged in pouches of up to 10 pounds (4.5 kg) of weight for a total of 40 pounds (18 kg). Some styles of lead weights may limit the maximum capacity of the pockets.

To load the pockets, open the pocket flaps and insert the weights into the pockets then close the flaps by pulling down on the flaps and engaging the hook and pile fasteners. The flaps are properly closed when the hook on the flaps fully engage the pile on the pockets. Do not overfill the pockets. Overfilling the pockets prevents the hook on the flaps from fully engaging the pile on the pockets and the weights will not be held securely in the pockets.

SPECIAL NOTE: Using the DUI Weight & Trim System with more than 40 pounds can put additional wear and tear on your System. DUI recommends a maximum weight of 40 pounds to be worn in the DUI Weight & Trim System Classic.

#### WEIGHT DISTRIBUTION AND TRIM

Most divers distribute their total weight as evenly as possible within the four pockets. However, you may want to experiment with weight distribution in each pocket. Putting the heavier portion of the weight in the front pocket will effect your trim differently than putting the heavier portion of the weight in the back pocket. Experimentation will tell you the weight distribution that best meets your diving needs.

# INSPECTING THE WEIGHT & TRIM SYSTEM PRIOR TO USE

Always take the time to carefully inspect your Weight & Trim System prior to each dive. Inspect the following items:

- Test the weight release mechanism on each side for proper operation.
   They should not be worn or broken.
- Inspect the mounting loops on the back of each weight pocket assembly.
   All six pocket mounting loops should be securely attached and in good condition.
- 3. Inspect the waist belt buckle and shoulder strap slides. They should function properly and not be cracked or broken.

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4. Inspect and test the hook and pile fastener on the pocket flaps and weight release mechanism. If there is insufficient adhesion between the mating surfaces they must be replaced.

#### !! WARNING !!

Hook and pile fasteners have a limited useful number of cycles. When it no longer has the same holding power it did when it was new it must be replaced.

#### PUTTING ON THE WEIGHT & TRIM SYSTEM

To put on the Weight & Trim System by yourself, first check to be sure that
all of the weight pockets are properly closed. If the pockets are not closed
correctly, weights could fall out of the pocket and possibly damage your
equipment or injure other divers around you. The buckle at the waist must
be open.

#### !! WARNING !!

Always check to ensure that all of the weight pockets are securely closed before putting on the Weight & Trim System. Any weights that fall out of the pockets may cause personal injury, damage your equipment or injure others.

- Set the Weight & Trim System on the ground with the back of the unit facing you with the waist buckle open.
- While standing with your arms straight at your sides, cross your straight arms in front of you, so your hands are pointing toward the ground.
- Maintain this position and bend down to grab the harness by the shoulders.
- Lift the unit from the ground and, with caution, swing the unit to the left or right and onto your shoulders.



- With the weight evenly distributed on each shoulder, fasten the waist belt.
   The buckle does not need to be worn as snugly as a standard weight belt.
   The shoulder straps support the weight and determine the position of the belt.
- The operation of your buoyancy compensator should not interfere with your Weight & Trim System. The operation of your Weight & Trim System should not interfere with your buoyancy compensator. Test the operation of each piece of equipment prior to diving. In particular, you must be able to drop your weights without any interference from your buoyancy compensator or any other piece of equipment.

#### !! WARNING !!

Prior to diving with your Weight & Trim System, put on the system and your buoyancy compensator. Check to be sure that each of these pieces of equipment operate properly without interference from the other. You must be able to ditch your weights quickly and easily. In particular, check to be sure that you can operate the release cords on the Weight & Trim System without interference from your BC.

Do not dive with the system unless you are able to operate the release cords properly.



The release handles on the Weight & Trim System are made to accommodate large hands wearing thick gloves. Given this, it is possible for a diver to incorrectly pass the ends of the waist belt through the loops to "wire" the belt in a condition where the weight pockets can only be released with great difficulty. Even if the weight pockets are released under these circumstances they will still hang from the waist belt of the Weight & Trim System. The weight pockets will then hang between the diver's legs. This situation can lead to entanglement, leg or foot injuries, and drowning.

#### !! WARNING !!

Never thread the waist belt through the weight release handles. This makes the weight pockets difficult or impossible to release and may lead to serious injury or death.

#### REMOVING THE WEIGHT & TRIM SYSTEM

To remove the Weight & Trim System open the waist belt and pass the right hand under the right shoulder strap. The weight will now be supported on the left shoulder. Grasp and hold the waist belt with the left hand and let the left shoulder strap slide off the shoulder supporting the weight with the left hand.



# DIVING WITH THE WEIGHT & TRIM SYSTEM

Diving with the Weight & Trim System requires little or no change from your normal diving pattern. However, you will immediately notice that diving is more comfortable and the Weight & Trim System provides better trim. Take notice of how your weights are riding on your body and do not hesitate to make adjustments until you get it adjusted to the most comfortable position for you.

# REMOVING YOUR WEIGHTS BEFORE EXITING THE WATER

When exiting the water onto a ladder or swim step it may be advantageous to remove the weight pocket assemblies. You can hand them to someone or tie them off so you may exit the water without the weight. To do this, simply grasp the release handle and pull the assembly free, taking care not to drop it. Once the assembly has been handed off, repeat the process with the remaining assembly.

Cross-releasing is releasing the right weight pocket assembly with the left hand instead of the right hand. Cross-releasing can result in all the weight being on one side of the diver, resulting in the diver being unbalanced, making it difficult to maneuver and handoff or tie off the weight pocket assembly.

#### ! CAUTION!

DUI advises against cross-releasing a weight pocket unless it is absolutely necessary such as in an emergency.



# DROPPING YOUR WEIGHTS IN AN EMERGENCY SITUATION

In certain diving emergency situations it may become necessary to drop all or part of your weights to achieve positive buoyancy. This may occur due to the failure of a buoyancy compensator.

If buoyancy has failed, it may be necessary to drop part or all of the weights to achieve neutral or positive buoyancy. In fact, under certain situations, dropping all of the weights may be very undesirable, due to the rapid ascent that will follow.

The Weight & Trim System allows the experienced diver to make a judgment regarding the removal of weight in an emergency situation. If it is not necessary to drop all of the weight, the diver may selectively drop only half of his/her weights. This may be all that is necessary to re-establish buoyancy control without the risk of an overly rapid ascent. Since each diving emergency occurs under a different set of circumstances and all divers have varying degrees of experience, DUI cannot advise you when to drop all weights and when to drop half of the weights.

#### !! WARNING !!

Opening the waist belt buckle will not allow the diver to drop the Weight & Trim System. In all probability, the unit will still hang by the shoulders or be trapped under the diver's buoyancy compensator device. To achieve positive buoyancy in an emergency situation, the only sure method of dropping the weights is to pull the release handles until weight pocket assembly is completely free of the diver and then releasing it.



#### HOW TO RELEASE THE WEIGHTS

- To release half of your weights, place your thumb through the loop of a weight release handle and grasp it, pulling the handle straight out and away from your body. The hand used to release the weight pocket assembly should be the hand closest to the assembly i.e. right hand right assembly. Do not reach across your body to release the weights from the opposite side unless it is absolutely necessary. As soon as the weight assembly is free and clear of the body drop it by releasing the handle.
- · Repeat on other side as neccessary.

#### !! WARNING !!

Dropping all of your weights at one time can make you excessively buoyant. We advise against dropping all of your weights unless an immediate, rapid ascent to the surface is essential. Rapid ascent is dangerous and may lead to air embolism, decompression sickness, or other lung over-pressure injuries.



### MAINTENANCE OF YOUR WFIGHT & TRIM SYSTEM

Proper maintenance of your Weight & Trim System is very important. It is very simple to care for and requires a minimum amount of attention.

#### POST DIVE CARE

- Rinse the entire system thoroughly with fresh water.
- Remove the weights from the pockets and flush the pockets with fresh water. This will remove any sand or other matter that may have accumulated in the pockets.
- · Do not dry in direct sunlight.
- Do not store with the weights in the system.
- Store in a cool dry place.

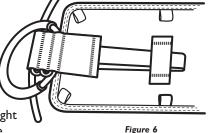
### REATTACHING WEIGHT POCKETS OF THE WEIGHT & TRIM CLASSIC

If you have released the weights you will need to restring them before you can use the Weight & Trim Classic for diving again. This is a very simple procedure that can be accomplished in a few minutes. There is a left and right weight pocket assemby. They are not interchangeable.

To install the weight pockets perform these steps:

I. Attach the patch of pile fastener on the weight release handle to the patch of hook fastener on the back of the weight pocket assembly.

2. Thread the nylon lanyard that attaches the weight release handle to the weight pocket assembly under the nylon loop on the back of the weight pocket assembly so that it lies flat. The



lanyard will be doubled over when it is properly installed. See Figure 6.

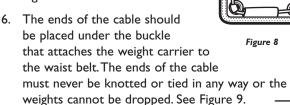
3. Place the back side of the weight pocket assembly against the outside of the weight carrier so the mounting webbing loops on the weight pocket assembly line up with the grommet holes on the weight carrier. If the

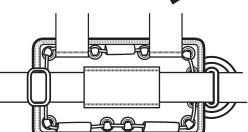
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holes do not line up exactly, either it is on upside down, or you have the wrong weight pocket assembly and it must be moved to the other side.

- 4. The two ends of the weight release cables must be threaded through the two small diameter grommets located on the front edge of the weight carrier. See Figure 7.
- The weight release cables must pass through each of the pocket assembly mounting loops. Pull each mounting loop through the grommets and thread the cable through the loop. See Figure 8.





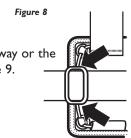


Figure 9

Figure 7

#### **!! WARNING !!**

Do not tie or knot the cable. Doing so could prevent the cable from moving through the attachment mounting loops smoothly, making the ditching of the weights difficult or impossible.



#### !! WARNING !!

Do not tie or knot the cable. Doing so could prevent the cable from moving through the attachment mounting loops smoothly, making the ditching of the weights difficult or impossible.

#### DETERIORATION OF HOOK AND PILE FASTENER

Over time, the hook and pile fastener used on your Weight & Trim System will lose its adhesion. When the hook and pile fastener will no longer stick together satisfactorily it will need to be replaced.



# DIVING UNLIMITED INTERNATIONAL, INC. LIMITED WARRANTY

DUI warrants that your DUI Weight & Trim System Classic will be free from defects in material and workmanship for a period of one (I) year from the date of original retail purchase with proof of purchase.

Any product determined by DUI to be defective in materials or workmanship in accordance with the above warranties will be repaired or replaced at the option of DUI, free of charge, when received at the factory freight prepaid, together with proof of purchase. The warranty is not extended with the repair or replacement of the item.

This warranty is expressly in lieu of all other warranties. Any implied warranties of merchantability or fitness for a particular purpose are limited to the same duration as this express warranty.

This warranty does not cover, and DUI shall not be liable for incidental or consequential damages. Some states do not allow the exclusion or limitation of implied warranties, incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty does not cover fading or any damage resulting from misuse, abuse, neglect, alteration, failure to perform maintenance as instructed, damage caused by contaminants, or unauthorized repair or service.

This warranty does not cover any representation or warranty made by Dealers beyond the provisions of this warranty.

This warranty does not cover costs incurred for normal repair, inspection and preventive maintenance.

This warranty is a consumer warranty extended only to the original retail purchaser, and does not apply to drysuits used for commercial purposes.

You must establish proof of purchase to obtain warranty service or replacement. Proof of purchase may be established by completing the Warranty Registration Card and mailing to DUI.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

### RETURNING YOUR DUI DRYSUIT FOR SERVICE, CONTACT:

Diving Unlimited International, Inc.

1148 Delevan Drive

San Diego, CA 92102-2499 USA

Tel: 800-325-8439 or 619-236-1203

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49 216 156 6470-70

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#### Korea

Sunsports Co. Ltd 2F Jongwon B/F 76-6 Garak Dong Songpa-Ku Seoul, Korea 82(02)402-1244 www.amadas.co.kr

#### Mexico

Vallartech Diving Calle Proa s/n Local 24 Edificio Marina del Rey Puerto Vallarta (322)209-0025 www.vallartech.com

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Rika Parts Kapellstrasse 26 Grenchen 2540 41 32 653 89 20 www.rika-parts.com

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Triton Dive Center 62 Voloshskaya Str Kyiv, Ukraine 04070 38 044 428 89 15

#### **United Kingdom**

Visit DUI-Online.com for a list of authorized dealers in the UK and Ireland



### ARE YOU A RESPONSIBLE DIVER?

#### RESPONSIBLE DIVER CODE

As a responsible diver, I understand and assume all the risks I may encounter while diving.

My responsible Diving Duties include:

#### 1. Diving within the limits of my ability and training.

As a responsible Diver, I understand...

- my certification card qualifies me to engage in diving activities consistent with my training and experience.
- the importance of continuing my diving education in the form of supervised activities and training, such as night diving and deep diving specialties.
- the need to keep proficient in my diving skills and to refresh them under supervision if I have not been diving recently.
- there are no limits to what I can learn about diving. The more I know, the safer I'll be.
- my maximum depth should be limited to my level of training and experience.
- I must have training in the proper use of equipment.
- the value of getting specific training in the proper use and application of specialized equipment, such as drysuits and computers.

## 2. Evaluating the conditions before every dive and making sure they fit my personal capabilities.

As a Responsible Diver, I recognize...

- the need for being familiar with my dive sites and the importance of getting a formal orientation to unfamiliar dive sites from a knowledgeable local source.
- the dangers of overhead environments (caves, wrecks, etc.) and the need to seek specialized training before doing such diving.
- I should postpone my dive, or choose an alternate site, if I evaluate

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the dive site conditions as being more difficult than my experience and training level.

 I should use a surface support station, such as a boat or a float, whenever feasible.

## 3. Being familiar with and checking my equipment before and during every dive.

As a Responsible Diver, I understand...

- that simply owning my equipment does not give me the knowledge and ability to dive safely.
- I must have training in the use of my equipment.
- I should maintain comfort in the use of my equipment through practice.
- my equipment must be equal to the type of diving I will be doing.
- I need to check that my equipment is operating properly before each dive.
- my equipment must be treated with respect and properly maintained and serviced.
- my equipment must be serviced according to manufacturer's specification by a qualified service technician.
- I must follow manufacturers' recommendations on the use of my equipment and must not modify it to perform in a way not intended by it's maker.
- I need to be properly trained before using EANx (Nitrox) and must use proper EANx-designated equipment displaying the appropriate markings.
- the importance of being able to easily release my weights if in distress.
- the value of an alternate air source and low pressure buoyancy control inflation system.
- how to adjust my weights for neutral buoyancy at the surface with no air in my buoyancy control device.

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#### 4. Respecting the buddy system and its advantages.

As a Responsible Diver, I recognize...

- I need to keep my diving emergency response skills sharp through practice and mental role playing.
- the importance of planning my dives with my buddy, including communications, procedures for reuniting if separated and emergency procedures.
- diving the plan which my buddy and I agreed to follow helps provide a safe dive.
- · I should always deny the use of my equipment to uncertified divers.

#### 5. Accepting the responsibility for my own safety on every dive.

As a Responsible Diver, I know...

- the importance of maintaining good mental and physical fitness for diving.
- I must not dive while under the influence of alcohol or drugs.
- postponing the dive is the correct action if I am suffering from a cold, hangover, flu or other health deficiency that may cause complications.
- to be watchful for and avoid overexertion.
- diving will be safe if I listen carefully to dive briefings and respect the advice of those overseeing my diving activities.
- the operators I dive with are not responsible for my decisions and actions.
- I should be proficient in dive table use and make all dives norequired decompression dives, allowing for a margin of safety, ascending no faster than 60 feet/18 meters per minute and making a safety stop at the end of every dive.
- to always breathe continuously while diving and never skip breathe or hold my breath.
- proper buoyancy should be maintained at all times buoyant for surface swimming, neutral while swimming underwater.



#### 6. Being environmentally conscious on every dive.

As a Responsible Diver, I ...

- am careful about what I touch underwater.
- · do not break plants or coral or collect "souvenirs".
- · respect laws on size and limits for game.
- · collect and dispose of trash I find while diving.
- let dive buddies, resorts and dive operators know how I feel about environmental responsibility.
- never dive in a manner that would hurt the environment.

The resorts and operators I dive with:

- use mooring bouys whenever available or anchor in areas free of live bottoms.
- give thorough environmental briefings to divers before they enter the water.
- contain photo processing chemicals for proper disposal.
- dispose of trash responsibly.
- uphold environmental regulations and game limits.

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Diving is all about adventure, friendship and FUN. All DUI drysuit owners are a part of the DUI Owners Group – DOGs. As a DOG, you are part of an elite group of divers who are dedicated to discovering what lies beneath and sharing that experience with others. You are today's true explorers. Visit the DUI website to register as a DOG and learn more about special DOG-only events, rallies, demos and special trips.



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