

# UTD Z Side-Mount Manifold & Stages



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## UTD Z Side-Mount Harness Owners Manual

This is the owners manual for the UTD Z Side-Mount Manifold. It covers the general precautions, setup, care and maintenance and warranty information. It is important to take the time to read the manual and setup your equipment properly. However this manual is in no way intended to replace proper training and instruction from a qualified instructor. One should become certified in side-mount diving to truly understand all aspects, protocols and procedures including the hazards and dangers of side-mount diving. We highly recommend one takes the UTD Essentials of Side-Mount diving class to become properly trained in the use of this specialized piece of equipment.

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### **Contact Information:**

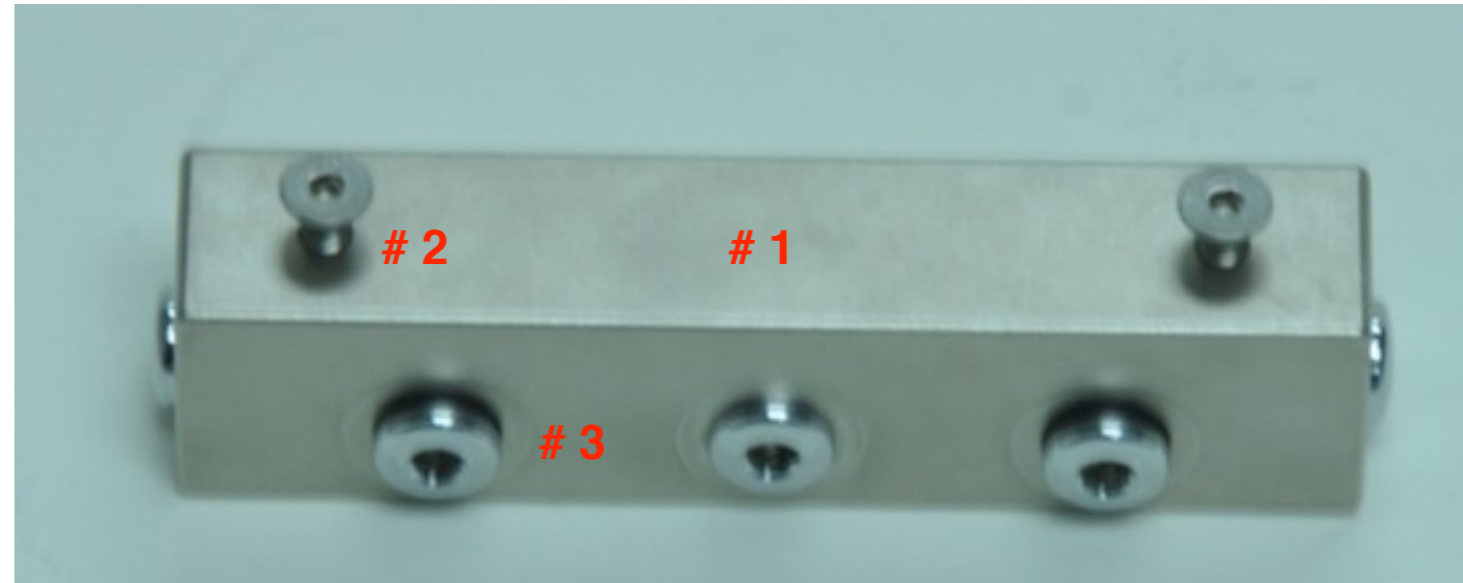
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- Before using this piece of equipment, you must receive instruction and certification in SCUBA diving from a recognized training agency. Use of SCUBA equipment by uncertified or untrained persons is dangerous and can result in serious injury or death.
- Read this owner's manual completely before attempting to use your equipment, and become familiar with it first in a controlled environment, such as a swimming pool, in order to weight yourself properly and to become comfortable with using its many features and adjustments.
- Before every dive, perform a complete pre-dive inspection according to the procedures prescribed in this manual, to ensure that all the components are functioning properly and no signs of damage or leaks are present. If your equipment is not functioning properly or is damaged, remove it from service until it can be repaired by an authorized UTD dealer.
- Before every dive, as part of your pre-dive inspection, ensure that all bolts and attachment components of your system are securely connected. This includes testing all inflation and deflation components as applicable.
- Your equipment should not be considered a lift bag. DO NOT use it to bring heavy objects to the surface. Doing so may cause permanent damage to the equipment, and could also result in an uncontrolled ascent.
- DO NOT over inflate any wings or trim devices. Control all ascents. A rapid, uncontrolled ascent may cause arterial gas embolism or decompression sickness and could lead to serious injury or death.
- In the event of an uncontrolled ascent, it is important to immediately begin venting gas from the wing or trim device. Continue venting gas to slow your ascent rate if neutral buoyancy cannot be reestablished.

- In an emergency such as an out-of-gas situation or uncontrolled descent, it is important to remove weight as necessary. DO NOT rely on using your power inflator to lift you to the surface.
- DO NOT inhale from your oral inflator. The wing/trim device may contain harmful contaminants or gases, which could cause suffocation, serious injury, or infection of the lungs.
- Disassembly, repair, or lubrication must not be attempted by persons who are not factory trained and authorized by UTD. Unauthorized service will render the warranty null and void.
- Factory prescribed service for the the system should be performed at least once a year by an authorized UTD Dealer. Annual service consists of a complete overhaul of the power inflator, and deflator, and a general air leak inspection of the bladder and valve connections.
- **This device/system is NOT a lifejacket or personal flotation device and will not guarantee you that you will float face or head up if unconscious.. It is not US Coast Guard approved to be worn instead of a life jacket while on a boat. If you become unconscious in the water without a buddy present to immediately assist you, you may suffer serious injury or death from drowning.**

# UTD Z-Manifold - Overall Components

1. Z-Manifold (Distribution Block)
2. Mounting screws
3. 8 LP ports
4. Z-Harness top plate
5. Manifold mounting holes
6. Backplate adapter plate
7. Manifold mounting holes
8. Attachment bolt to backplate



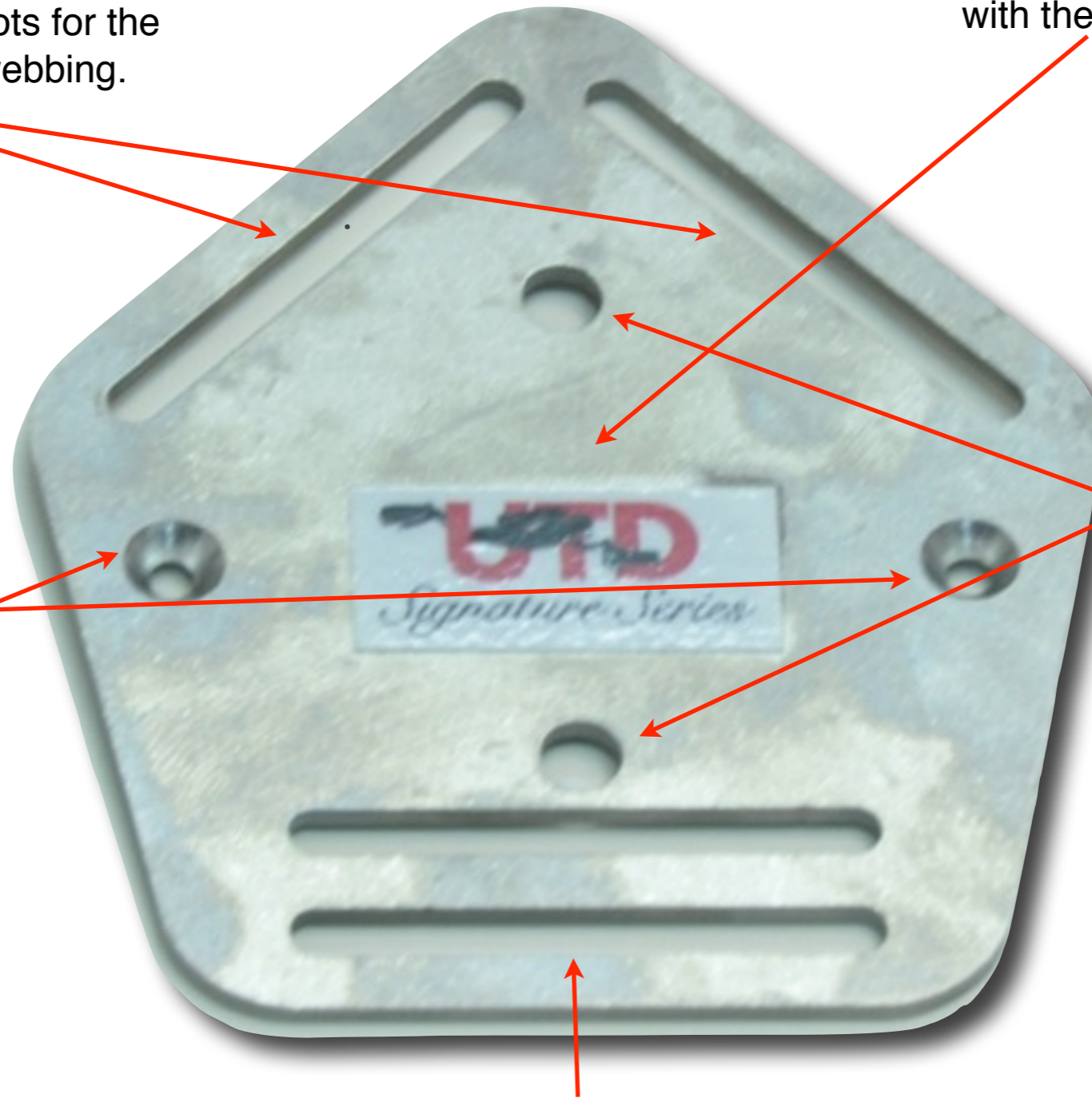
# UTD Z-Harness - Shoulder (Top) Plate

Over the shoulder slots for the single piece 2" stiff webbing.

This side of the shoulder (top) plate touches the divers back. Side with the UTD logo.

Counter sunk holes to attach the Z-Manifold to the shoulder (top) plate

Attachment holes for Z-Trim/Delta etc.



Slots for the single piece 2" soft webbing crotch strap. Attaches shoulder (top) plate to bottom plate.

1. Z-Manifold (Distribution Block)  
(Lay flat mounting screw hole up)
  2. Left side gas addition hose  
QC6F input hose  
(Top LP Port - Gas addition System)
  3. Right side gas addition hose  
QC6F input hose  
(Double tank configuration only )
  4. 7'/2m or 5'/1.5m hose  
(Bottom LP Port)
  5. Drysuit hose  
(If needed)
  6. BCD LP hose
  7. Optional LP ports - Plugged  
PSCR Rebreather or other needs
- Attach to backside of plate



**Step 1.** Attach Z-Manifold to adapter plate using the counter sunk screws.

**Step 2.** Slide the pointed end (bottom) of the adapter plate between the 2" shoulder webbing and the backplate.

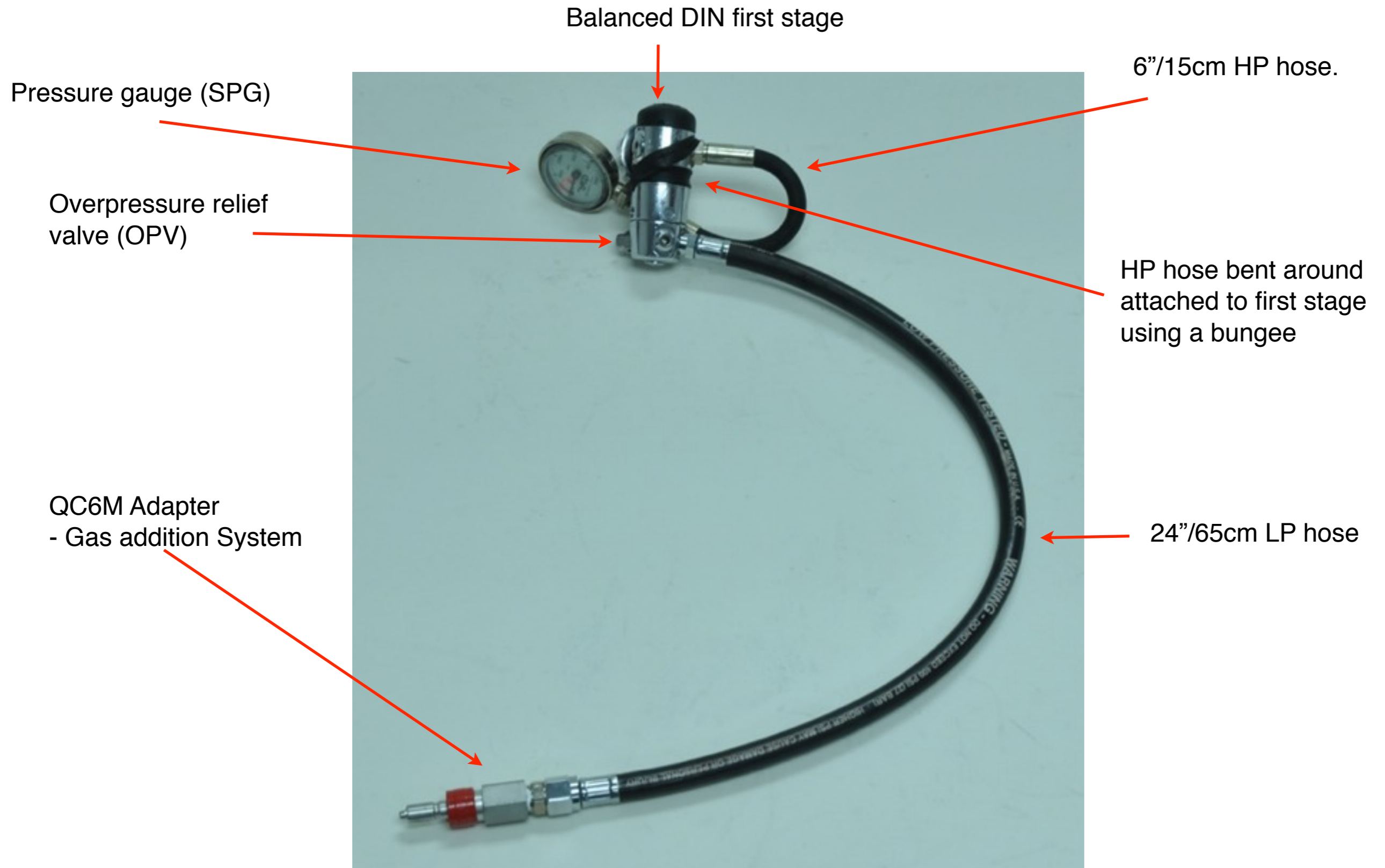
**Step 3.** Line up the grommet on the harness with the hole in the adapter plate and the hole in the backplate.

**Step 4.** Attach using bolt kit. Make sure to go through all three holes.

**Step 5.** Attach hoses as described earlier



# UTD Z-Stage Regulator Setup



1. Permanent Z-Side-Mount kit
2. SS Hose clamp
3. Tank bungee
4. Bottom SS boltsnap
5. Top SS boltsnap
6. Travel Z-Side-Mount kit
7. EZ Tank Strap & cam buckle
8. Dedicated Z-SM permanent kit
9. Dedicated Z-SM travel kit
10. STD UTD/DIR stage kit
11. Stage regulators attached



Before each use, the Z-Manifold and the gas addition system (QC6 input/output) must be given a thorough visual inspection and functional test. Never dive with a system that shows any signs of damage until it has received a complete inspection and service from an Authorized UTD Dealer. It is advised to periodically check the manifold and QC6's for damage or corrosion. Also check the harness for signs of wear. If your harness shows signs of wear it should be replaced immediately.

## Pre Dive Checklist

1. Connect the stage regulator to a clean air source. Attach the DIN first stage to your stage/s or deco bottles.
2. Turn on all cylinders and check the pressure, listening for any leaking.
3. Plug the male QC6 from the stage bottle into one side of the Z-Manifold QC6 female input.  
(If applicable - plug the second male QC6 into the 2nd QC6 input)
4. Check the functionality of all regulators, wings/trim devices and so on, located on the Z-Side-mount system.
5. Ensure that you leave the cylinder pressurized for at least 5 minutes ensuring the OPV does not expel gas.
6. Disconnect QC6's and proceed with your entry as needed.

With proper care and maintenance your UTD System will provide you many years of reliable service. The following preventative maintenance must be performed to extend the life of your system.

## Preventative Maintenance

- Avoid repeated or prolonged use in heavily chlorinated water. Prolonged exposure to chemically treated water can damage the material.
- Do not allow the equipment to chafe against any sharp objects or rough surfaces that could abrade the rubber or other materials. Do not set or drop heavy objects, such as block weights, on the equipment.
- Avoid prolonged exposure to direct sunlight and extreme heat. The rubber hoses may fade when exposed to the sun's harmful ultraviolet rays, and extreme heat may damage the integrity of the equipment.
- Avoid contact with Oil, gas, and other solvents or contaminants.
- Recommended working pressure of the system is 120 psi / 8.3 bar to 160 psi / 11 bar.
- Operating temperature range of the system is - 4f/20c to 160f/70c. All prudent/known safeguards and procedures should be observed when diving in near or sub-freezing temperatures on the surface and below.

## Post Dive Maintenance

- To prevent permanent damage from corrosion, salt crystals, or chlorine attack, thoroughly rinse the system with fresh water after every day of use, using the following procedure:
  - Pressurize the system via the quick disconnect hose.
  - Using a hose or other fresh water source, thoroughly rinse the exterior of the system.
  - Allow it to dry inside and out before storing . Store the system, away from direct sunlight, and in a cool and dry clean area.

## Standard Warranty

Warranties are the responsibility of the original manufacturer and handled through UTD. UTD will expedite all warranty claims and will do everything possible to satisfy these claims as quickly as possible. Each product is subject to that manufacturer's individual warranty statement. Below are some of the common warranty statements for each of the product categories. It is the responsibility of the UTD Dealer and/or Dealer's employee to be informed of each of the individual product warranties and should refer to each product individually when quoting warrant information.

1. For Buoyancy Compensating Devices (Wings, Backplates and other Cordura parts) a limited warranty to the original purchaser against all defects in original workmanship and material, under normal use and service, is one (1) years from the date of purchase.
2. For Lighting Products a limited warranty to the original purchaser against all defects in original workmanship and material, under normal use and service, is three (3) years from the date of purchase, 90 days on all electrical cords and E/O cord connectors.
3. Any flood or damage, for any reason, that is caused from flooding an o-ring sealed or water tight area will not be covered under warranty. All o-ring sealed products undergo extensive pressure testing before being shipped and delivered and are therefore guaranteed to be sealed and functioning when shipped from UTD.
4. UTD will not be liable for any further loss, damages, or expenses, including incidental or consequential damages directly or indirectly arising from the sale or use of the product.
5. All paint finishing, powder coating, material stitching that is chipped, damaged, or unthreaded through customer use is not covered under warranty.
6. UTD does not warranty any product for aesthetic finishes or look. Issues with finish or look that do not affect function of the product are not covered under warranty.

## Return & Replacement Policy

MERCHANDISE MAY NOT BE RETURNED WITHOUT AUTHORIZATION.

1. A Return Authorization number from our Customer Service Department must be obtained before returning goods. Items returned without an RA will be subject to inventory charges and fully inspected.
2. All returns will undergo evaluation. UTD reserves the right to determine if work falls under warranty. If it is determined your return is not covered under warranty, we will contact you regarding any repair charges. Warranty repairs and replacements are returned to the owner at UTD expense. Non-warranty repair work and parts replaced due to normal wear and tear, along with shipping, are paid for by the equipment's owner.
3. Returned merchandise will be repaired or replaced at UTD's discretion.
4. Unauthorized returns or refused shipments of sellable merchandise will be subject to a 15% restocking fee.
5. Orders of customized product (custom logo merchandise) are generally not returnable. If an RA is issued for a customized product, the order is subject to a 40 - 60% restocking fee, depending on product.
6. All returns must be freight prepaid.