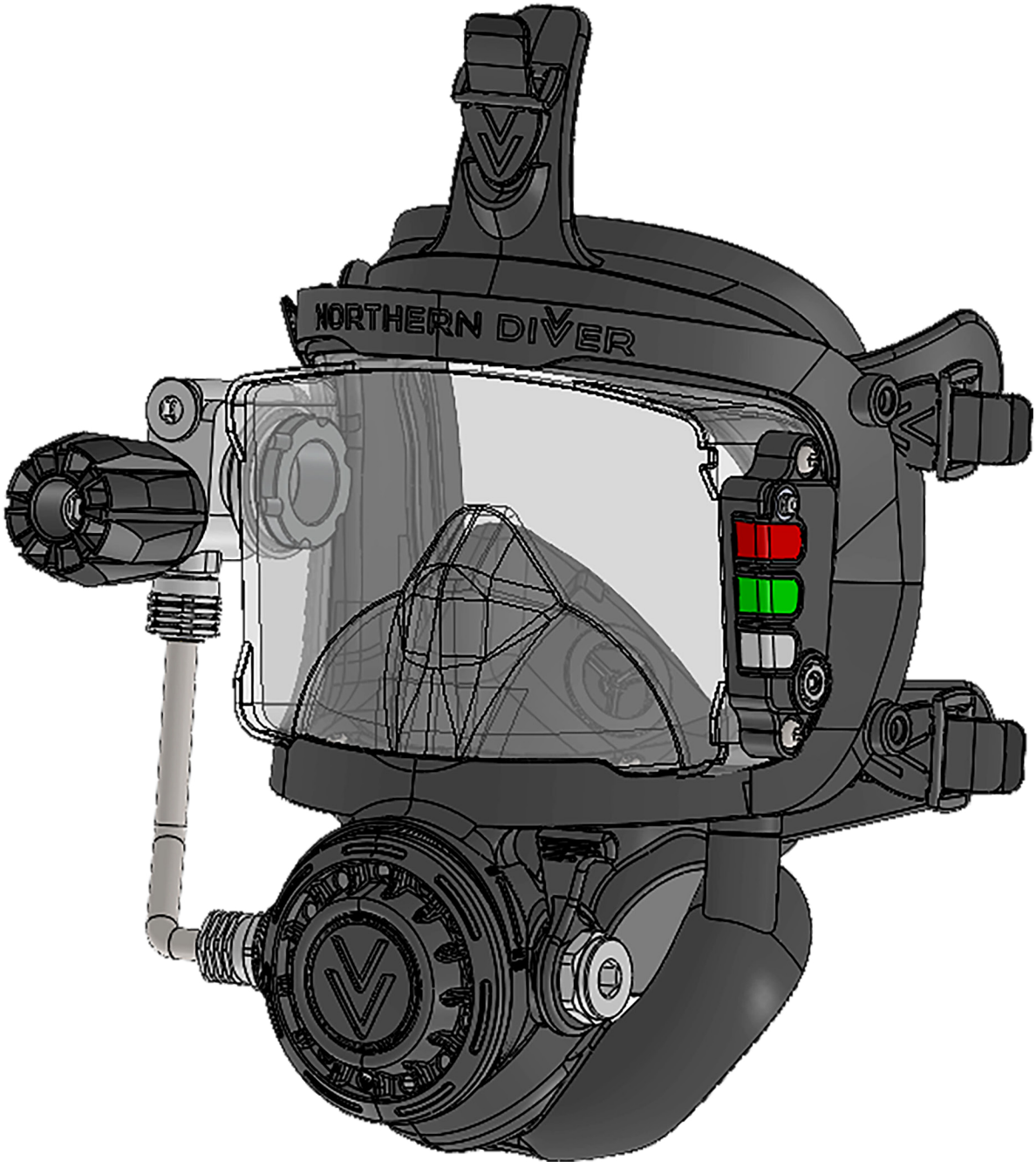
ODYSSEY

FULL FACE DIVING MASK USER INSTRUCTIONS



Company Introduction

Northern Diver International Ltd are a diving equipment manufacturer, certified ISO 9001:2015, ISO 14001:2015. We specialise in all areas of scuba diving including recreational, commercial, rescue and military sectors. For over four decades, our reputation as one of the world's leading drysuit and scuba diving equipment manufacturers has gone from strength to strength and with a genuine love of diving at our heart, it allows us to produce innovative products for all divers.

Company Address

Address: Northern Diver International Ltd, Appley Lane North, Appley Bridge, Lancashire, WN69AE, United Kingdom.

Telephone: +44(0)1257 25 4444

Email: Info@ndiver.com

Website: https://www.ndiver.com/

Disclaimer

The Odyssey mask must be used for underwater diving only and maintained in accordance with the specifications and instructions stated within this manual.

Neither Northern Diver International Limited, or their affiliates shall be liable to the purchaser of this product, or third parties, for losses, costs, damages or expenses incurred by the purchaser or third parties as a result of accident, misuse, abuse, use of non-original spare parts, insufficient or incorrect maintenance or modification of this product or a failure to strictly comply with the operating and maintenance instructions.

Incorrect use, use of unsuitable spare parts, modifications of the equipment or poor maintenance and storage are dangerous for health and safety of the user. In the above-mentioned situation, being potentially dangerous to the health and life of the users, the manufacturer is released of any responsibility and the warranty is nullified.

The Odyssey FFM is Category III Personal Protective Equipment (PPE) for respiratory protection and must only be used by qualified and trained personnel. It meets the health and safety certification requirements of the European Regulation 2016/425 category III PPE and the product is CE mark tested in accordance to the requirements of the EN 250:2014 standard.

The Odyssey FFM Must ONLY be used with diving ancillaries that have been tested and certified to EN250:2014 and that bear a C.E. mark such: Pillar valves, 1st stage regulators, Hoses, Contents gauges, etc

The air supply must meet the requirements of EN12021:2014 standard for breathing air.

All information in this document is believed to be correct at the time of going to press.

Northern Diver International Ltd cannot be held responsible for any inaccuracies or omissions. If you find an error or feel we have missed important or useful information, please contact us. The latest version of the manual is always available to download from the website: **www.ndiver.com**. If you have any questions concerning the material contained in this manual, please contact Northern Diver.

The Manufacturer has carefully worded and edited this owner's manual. However, in no event the Manufacturer will be responsible for any damage caused by text misunderstanding, misprints and/or incompleteness.

Safety Notice

The Odyssey FFM is designed to protect the user from exposure to hazards, specifically the respiratory system from breathing in water.

All divers using the Odyssey FFM must be certified divers, properly trained, properly equipped, and fully understand all of the mask's functions detailed within this user manual.

It is recommended that the full-face mask training course has been completed before attempting to use.

This mask does not change or eliminate the potential hazards of diving.

Contents

Product Description

The Odyssey full face diving mask (FFM) is designed to cover the divers face in a single volume including the eyes, nose and mouth. This offers a higher degree of protection from the surrounding environment in terms of enhanced thermal insulation during cold temperature diving and some limited protection when used in potentially polluted waters.

The main feature of the mask is the integration of a high performance second stage regulator directly into the mask frame which provides an extremely low profile, streamlined and ergonomic breathing-air platform.

The mask is designed to promote air circulation minimising fogging of the lens and reducing the amount of CO2 build-up. The silicone skirt has an oral-nasal pocket with two non-return valves through which air is inhaled.

The mask is available in two configurations which are with and without side block. The side block is an optional feature which allows the diver to open a reserve bail out cylinder. The side block is mounted in the diver's field of vision on the side of the mask allowing easy access and single-handed operation in low visibility conditions.

Another important aspect is that the mask can be equipped with communications equipment allowing divers to speak to each other and with a team at the surface. Current commercially available dive communications can be integrated and used in conjunction with the mask.

The mask can also be used with Northern Diver Low Air Warning System (LAWS) which is a light system used to warn the diver of low cylinder pressure for both main and bailout. The LAWS system is directly attached to the side of the lens via mounting holes.

There are mounting holes located in the mask frame for the addition of a rail for torches, cameras and other diving equipment.

Certification

The conformity tests following the harmonised standard EN250:2014 and the authorisation for CE marking EU-TYPE EXAMINATION for regulation (EU) 2016/425 Personal Protective Equipment have been carried out by:

The Notified Body SGS.
Notified Body number 0598.
SGS Fimko Oy, Takomotie 8, FI-00380 Helsinki, Finland.
The conformity to type based on quality assurance of the production process (Module D) has been carried out by the Notified Body number 0598.

The Odyssey FFM has been tested and certified according to the European harmonised standard EN 250:2014.

The Odyssey FFM is approved for diving up to a maximum depth of 50 meters (164 feet) in accordance with EN 250:2014.

The Odyssey FFM is approved for temperatures below 10°C and for cold water temperatures 4 ± 2°C (39,2 ± 3,6 °F) in accordance with EN 250:2014.

The Odyssey FFM is tested and certified for use with compressed breathing air only according to EN 12021:2014.

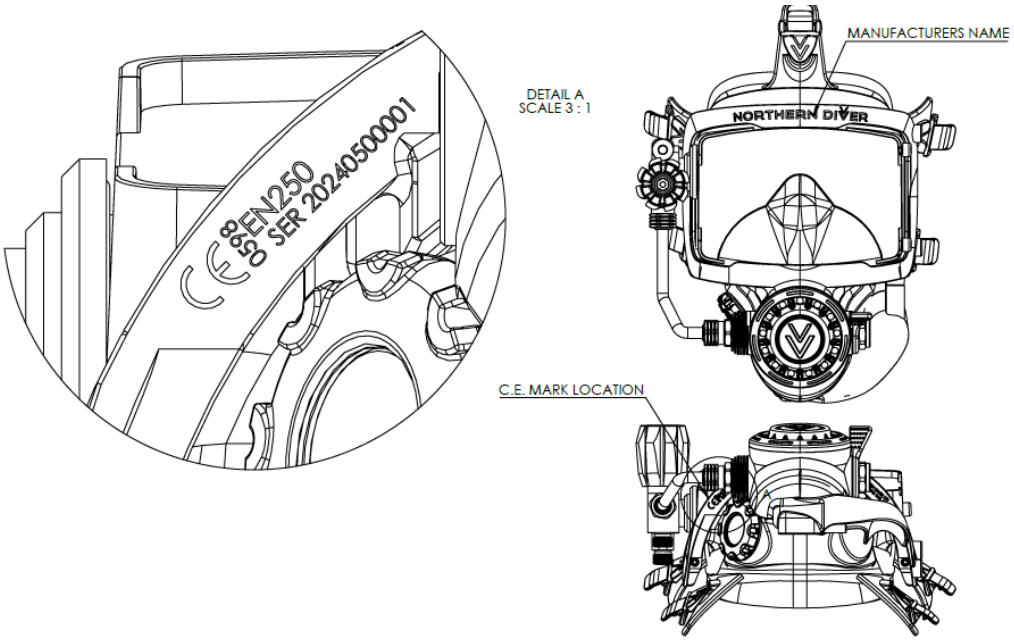
The declaration of conformity of the Odyssey FFM is available on our website:
www.ndiver-military.com/downloads/declaration_of_conformity

Technical Specifications

Product Name	**Odyssey Full Face Mask**	**Odyssey Full Face Mask with Side block**
Part number	**ND0003936**	**ND0003937**
Year of Manufacture	**Located on the product.**	**Located on the product.**
Notified Body	**C.E. 0598**	**C.E. 0598**
Dimensions	**297mm x 173mm x 157mm**	**297mm x 210mm x 157mm**
Weight	**990g**	**1420g**
Supply Pressure	**9.5 to 9.8Bar / 138 to 142 psi**	**9.5 to 9.8Bar / 138 to 142 psi**
Max Working Pressure	**16Bar / 232 psi**	**16Bar / 232 psi**
Materials	**Mask Frame – ABS+PC** **Mask Skirt – Silicone** **Mask Lens – Polycarbonate** **Head Harness – NBR + PVC** **Spindle – Brass Chrome Plated** **Screws – A4 S/S** **Springs – 316 S/S** **O-Rings – NBR**	**Mask Frame – ABS+PC** **Mask Skirt – Silicone** **Mask Lens – Polycarbonate** **Head Harness – NBR + PVC** **Spindle – Brass Chrome Plated** **Side Block – Brass Chrome Plated** **Side Block Supply Tube – 316 S/S** **Screws – A4 S/S** **Springs – 316 S/S** **O-Rings – NBR**

C.E. Mark, Serial Number, Manufacturers address Location

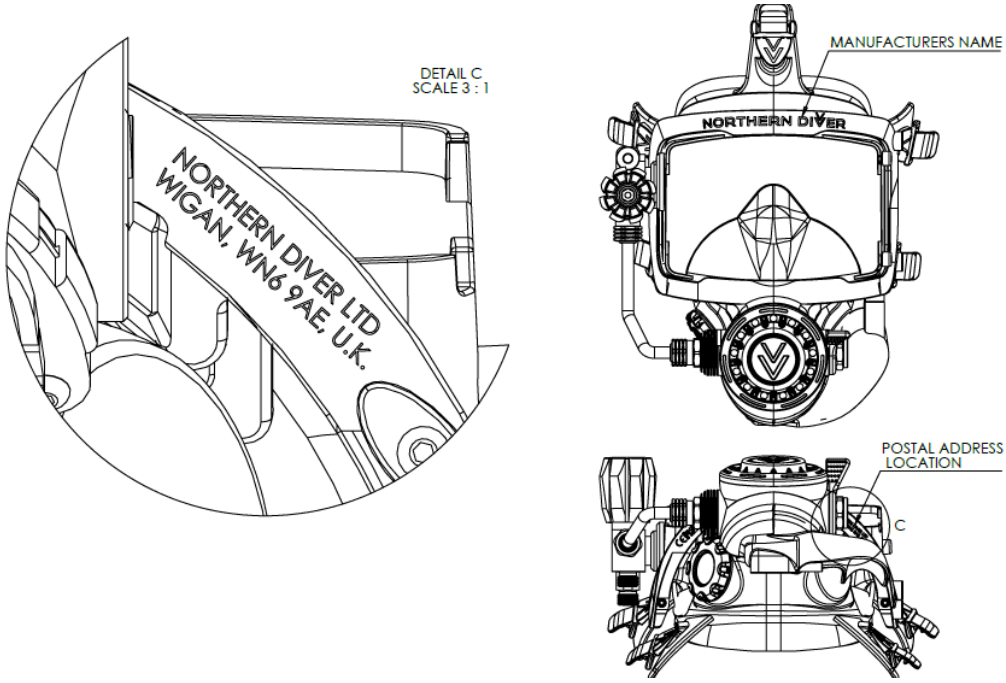
Below image shows location of the C.E. and serial number for the Mask, this location is the same for both with and without side block.



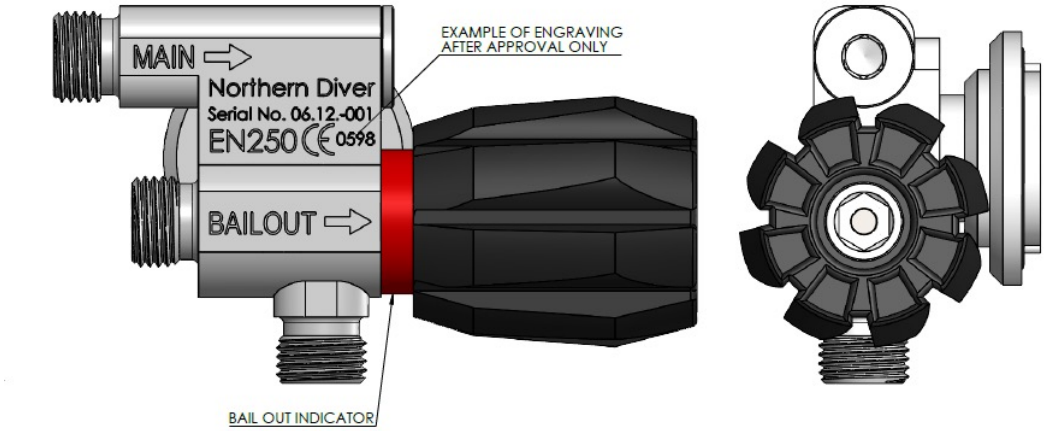
The C.E. Mark Location is on the underside of the mask lower frame on the gas inlet side.

The Mask Serial number shows date of manufacture YYYY:MM:UNIT NUMBER.

Below image shows location of the manufacturers address, this location is the same for both with and without side block



The below image shows the location of the C.E. and serial number on the side block



The side block serial number shows date of manufacture YY:MM:UNIT NUMBER.

General Warnings and Precautions

When reading this manual pay attention to information provided in warnings, cautions, and notes indicated by the following symbols:

- A WARNING indicates a procedure or situation that, if not avoided, could result in serious injury or death to the user.
- A CAUTION indicates any situation or technique that could cause damage to the product and could subsequently result in injury to the user.
- A NOTE is used to emphasize important points, tips, and reminders.

Warning Note

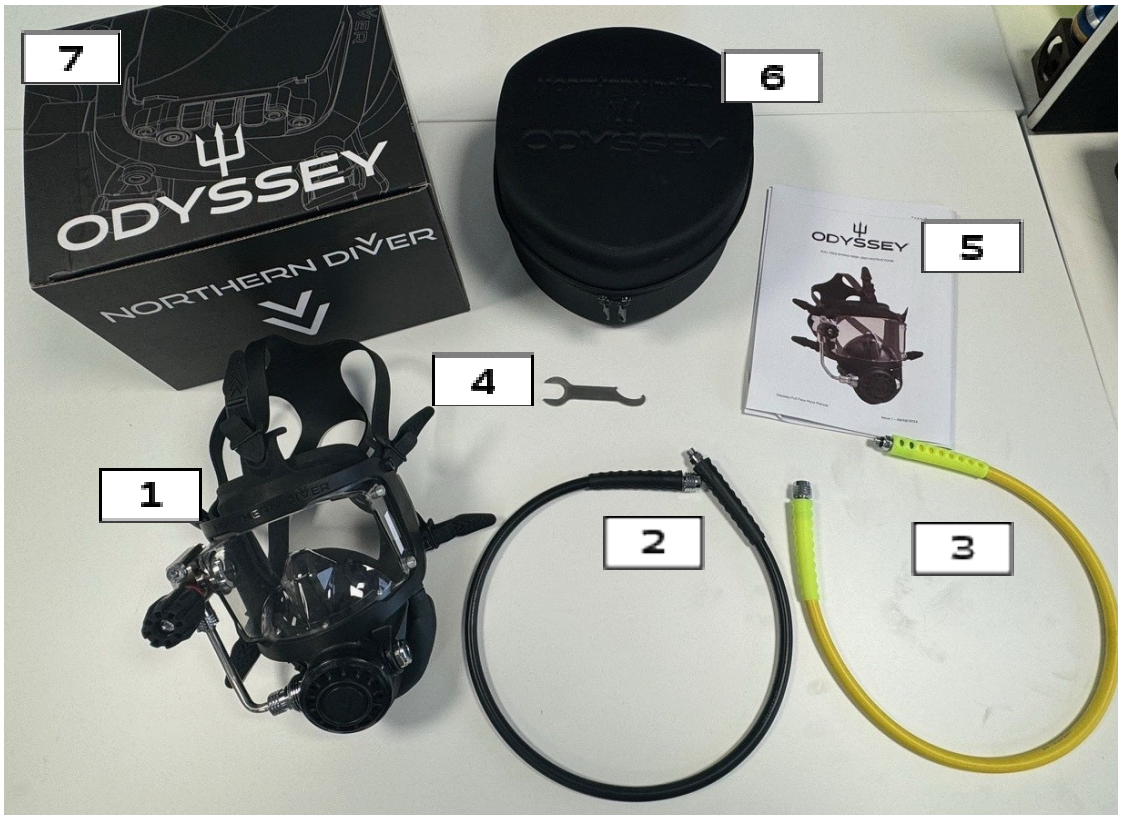
- Carefully read this instruction manual before use and keep it for future reference, if there are any difficulties understanding the instructions please contact Northern Diver at info@ndiver.com
- This instruction manual does not replace a diving course, use of SCUBA equipment by uncertified or untrained persons is dangerous and prohibited.
- Before using this mask, you must be a qualified diver and have received SCUBA diving certification from a recognised SCUBA certification agency (or any Military government operated diving school).
- Use of this equipment by a person who is not certified by a recognised agency shall render all warranties, express or implied, null and void.
- Periodic training and practice of the emergency procedures in shallow water is required to maintain preparedness in the event of an actual emergency. This must be done prior to diving it in an open water environment.
- Do not misuse this product or use outside of the correct rules for safe diving outside of the working limits stated in this manual.
- Proper maintenance and care of the mask is essential for safe operation. Care must be taken when conducting maintenance as damage to vital high pressure gas components may result in serious injury or death.
- The servicing plan detailed within this manual should be followed. Note - if your equipment is used extensively or in environments that would require decontamination, service intervals may need to be shortened.
- Always inspect the mask for damage prior to diving. Do not dive using any equipment that is not properly maintained, damaged, or worn.
- Do not modify or alter in any way the Odyssey FFM.
- Diving is an inherently dangerous activity. Participating in this activity puts you at risk of serious injury or even death.
- All dives must be planned and carried out to allow the diver a reasonable reserve of air for emergency use at the end of the dive. The suggested amount is usually 50 bar (725 psi).
- If the SCUBA equipment is configured with an auxiliary emergency breathing system (Octopus) then it shall not be used at depths greater than 30M and in water temperatures less than 10°C.

Package Contents

ND0003936 - Odyssey Full Face Mask Including 1 Hose Assembly

ITEM	DESCRIPTION	QTY
1	Odyssey Full Face Mask	1
2	750mm Length Black Hose Assembly	1
3	20mm Spanner and Comms Tool	1
4	Instruction Manual	1
5	Soft Shell Carry Case	1
6	Display Box	1

ND0003937 - Odyssey Full Face Mask with Side Block Including 2 Hose Assemblies



ITEM	DESCRIPTION	QTY
1	Odyssey Full Face Mask with Side block	1
2	750mm Length Black Hose Assembly	1
3	900mm Length Yellow Hose Assembly	1
4	20mm Spanner and Comms Tool	1
5	Instruction Manual	1
6	Soft Shell Carry Case	1
7	Display Box	1

Mask Features

Mask Features

Side Block Function

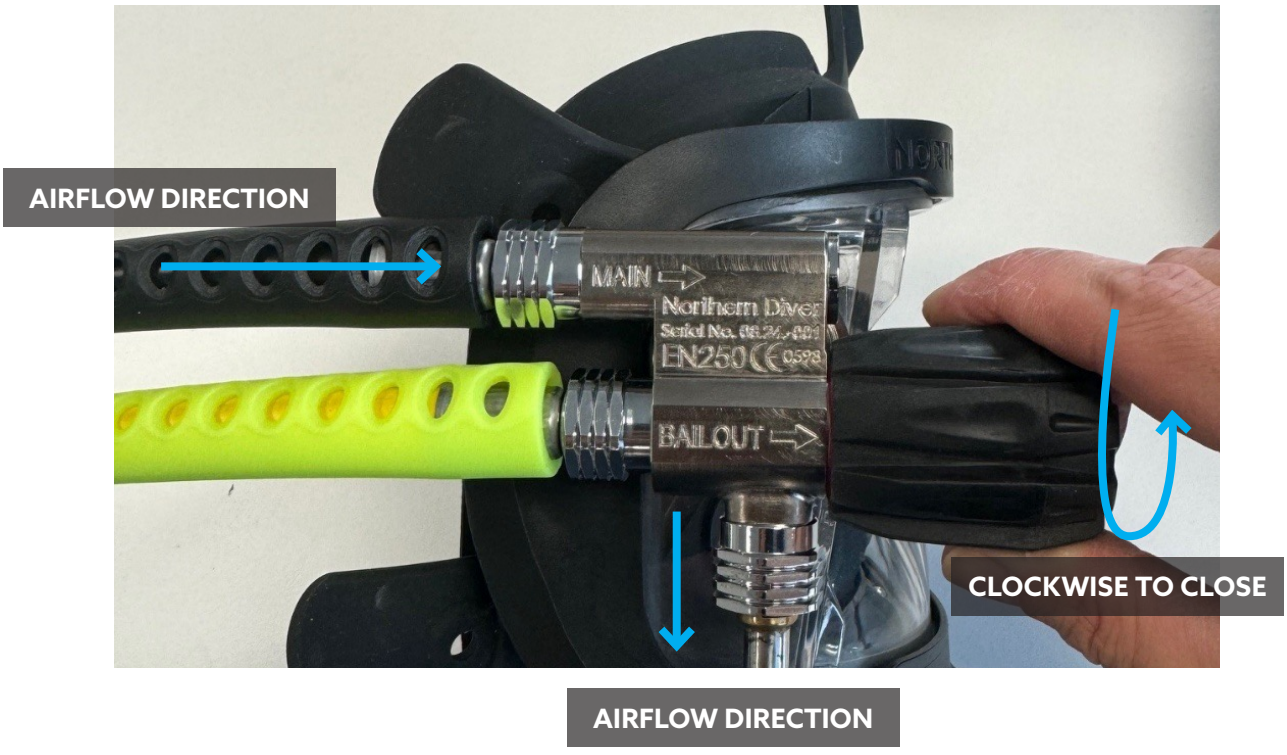
The side block receives air supply via hoses from both the main and bailout cylinders.
It allows the diver to easily locate and open the reserve bailout air supply in case of low air or failure of the primary supply (the primary air supply has a non-return valve fitted to prevent back feed from alternate air supply). The side block does not switch over or change over between air supplies it allows both supplies to be used at the same time.

The side block is attached to the diver's mask which is in an easily accessible location so the diver can open the Side Block valve unaided and in nil visibility conditions.

It has a diver activated hand wheel valve to open the reserve air supply fully clockwise is closed and fully anticlockwise is open.

CLOSED FUNCTION

1. The side block isolation valve must always be closed in the pre dive condition.
2. Close the Switch Block valve by turning the valve handwheel clockwise until it stops hand tight.
3. In this position gas flow is from the Main hose supply, the Bailout hose supply is closed.
4. In this position the hand wheel covers a red indication band to show the handwheel is in the closed position.

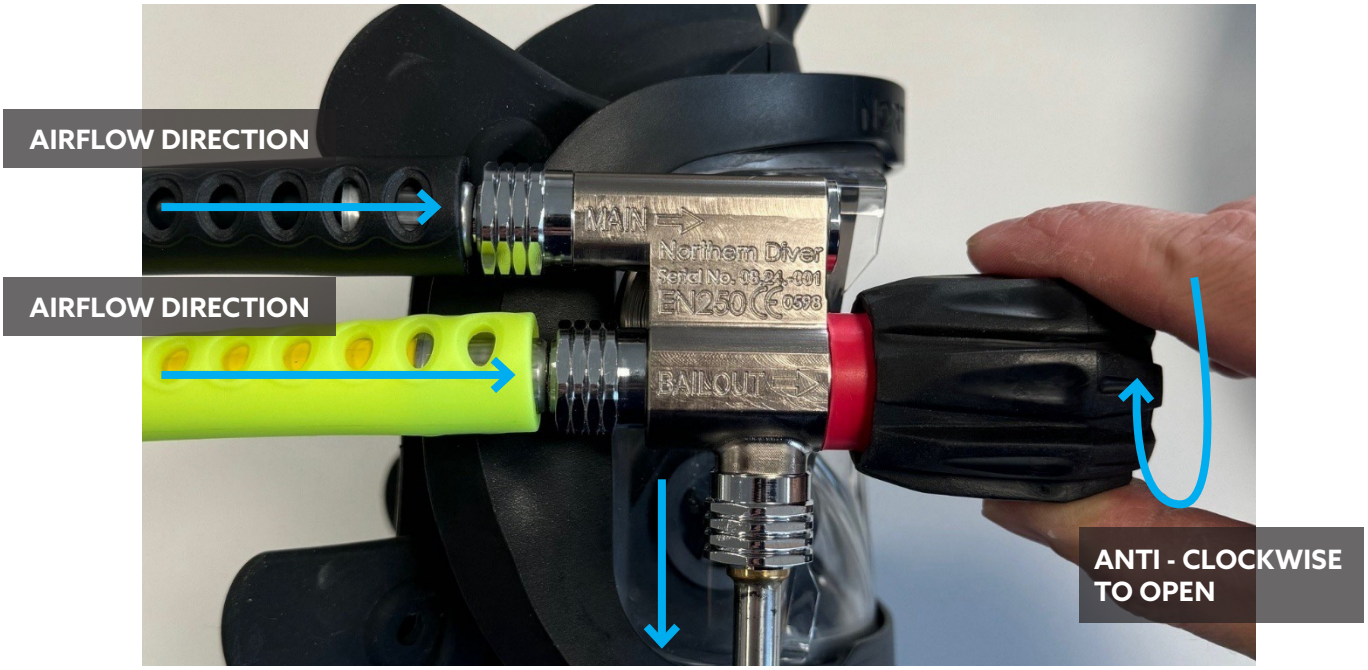


Note: Close the Switch Block valve when not in USE!

Caution: Do not over tighten or use tools to tighten the handwheel this may damage the valve seal or seat of the side block.

OPEN FUNCTION

- Open the Side Block valve by turning the valve handwheel anti-clockwise completely until it stops. (Listen for the flow of gas.)
- Gas flow is from Main & Bailout supply, Bailout hose supply is open.
- In this position the hand wheel reveals a red indication band to show the handwheel is in the open position.



- **Note:** When opening the side block if no gas flow is heard, check the cylinder valve is open, the contents gauge for pressure and/or the hoses for blockages.
- **WARNING:** If the bailout valve leaks, gas will empty from the bailout cylinder leaving no air for the diver in an emergency situation.
- **WARNING:** The bailout cylinder only allows the diver a limited air supply and must immediately return to the surface or to a place of safety.

Before Use and Pre-Dive Safety Check

Prior to donning your mask, examine the complete mask with the rest of your gear to ensure that it is in dive-ready condition. You, the diver, are ultimately responsible for your equipment.

Before every use it is recommended the user carries out a basic visual inspection following the points below:

1. **Check:** the silicone face piece for ageing and damage, particularly at the buckles.
2. **Check:** the inner oral nasal cavity of mask for ageing and damage.
3. **Check:** that the non-return valves located in the nasal cavity are sealing properly and that they sit flat around the sealing surface.

4. **Check:** the head harness buckles for damage.
5. **Check:** that the head harness straps are free from stress cracks and ageing.

6. **Check:** the lens for scratching that impairs visibility and ensure that the lens frame halves are secure.

Note – To prevent fogging you may clean your mask lens using appropriate anti-fog sprays that do not cause damage to the mask lens.

7. **Check:** that the equalising nose block is fitted correctly and securely.

8. **Check:** that the threaded connections of the side block / or second stage breathing valve are free from damage.

WARNING – If there is any damage found then do not use the mask, it must be repaired before the mask is used.

A dry test breath can now be taken from the mask to ensure the skirt seals against your face, check for audible leaks.

Note – If the side block is fitted check both the main and bailout with a test breath.

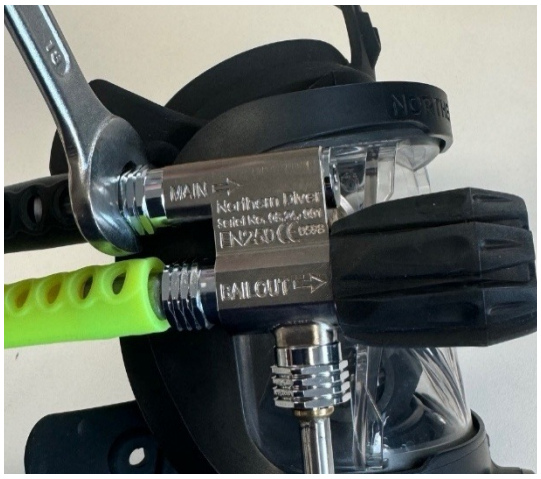
The mask is now ready to connect the breathing hose. Depending on the mask configuration, either:

1. Connect both Main and Bailout hoses to the side block inlet ports; or
2. Connect directly the 2nd stage regulator inlet if the side block is not present.

The hose nuts should be torqued to 5Nm.

WARNING - Do not over tighten the hose nuts as this can damage the mask.

Pictures showing Side Block Version



Pictures showing without Side Block ***(Lock spindle in place and prevent from rotating, using two spanners 22mm & 18mm to tighten the nut.)***

WARNING - Do not tighten the hose nuts with a single spanner as this can damage the mask frame or the second stage's internal components, resulting in potential failure of the regulator.

It is extremely important that the diver's air supply is turned on prior to diving. Carefully open the cylinder valve to fully open.

Check: the pressure on the pressure gauge to make sure that there is the required amount of air for the planned dive. Northern Diver recommend that the cylinders should be full before every dive.

Press the purge button on the mask regulator for 1-2 seconds to check for airflow.
A strong venting of air through the mask exhaust should be heard.

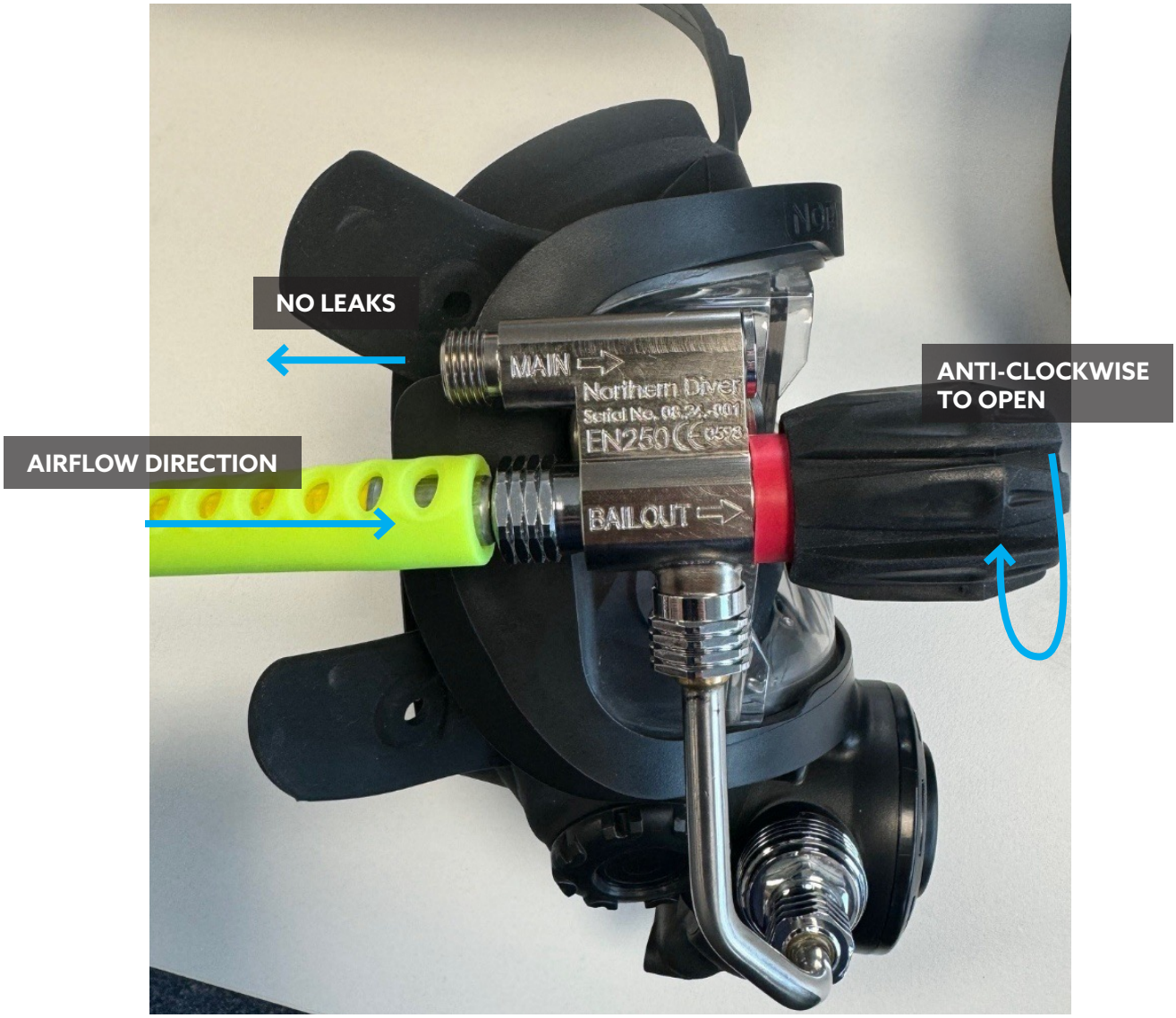
If the side block is fitted, check the purge function in both main and bailout positions, you will need to open the side block valve fully.

Note – For the bail out position, close the main cylinder valve to ensure you are testing solely the bailout.

If the side block is fitted, the non-return valve located in the main supply port must be checked.

The non-return valve in the main port prevents feedback into the main cylinder when using bailout supply.

To check remove the main hose supply into the side block so only the bailout supply hose is connected, open the bailout valve to pressurise the side block and checking for leaks.



WARNING: If the bailout valve leaks, gas will empty from the bailout cylinder leaving no air for the diver in an emergency situation.

Check the complete dive set for leaks by closing both cylinder valves and waiting for one minute then checking that the gauge needle has not fallen by more than 10 bar (145 psi). If the test is successful open both cylinder valves to fully open.

Donning the Mask

1. Extend the harness straps as far as possible to widen the opening.

2. Hold the mask by the lower harness straps and pull the harness over your head. You may need to separate the straps as you pull the mask over your head.

3. Move the harness straps to allow your face to sit in the mask skirt and check that the equalising block is in a position that allows easy equalising and unrestricted breathing through the nose.

NOTE - There are equalising block extension pads available to allow the equalising block to reach closer to the nose if required.

4. Ensure the mask is straight, using one hand hold the mask by the lower frame onto your face.

NOTE - Ensure the skirt of the mask lays flat against your face with your chin locked into the base and that the straps are not twisted.

5. First tighten the two lower harness straps evenly. This can be done by pulling straight back.

6. Next tighten the two upper harness straps evenly. This can be done by pulling straight back.

7. Finally, the top central strap can be tightened, by pulling straight back.

CAUTION - The order of which the straps are tightened is important to ensure the mask skits properly on your face.

CAUTION – Do not overtighten the straps as pulling too hard may cause leakage.

CAUTION – Do not overtighten the top strap or tighten the top strap first as this will result in the mask sitting higher on your face and could cause leaking, jaw fatigue, and an uncomfortable dive.

8. The mask can now be manoeuvred to a comfortable central position on your face and the straps snugged if required.

NOTE - Inhale as normal whilst wearing the mask.

9. Check that you can equalise by either pushing the regulator up at 45° or by pushing the top of the lens.

10. Located on the left side of the regulator is a Dive/Pre-Dive lever, ensure the lever is in the correct position before initiating the dive.

PRE-DIVE POSITION

DIVE POSITION

NOTE - To achieve the best seal, the mask skirt should be fitted directly onto the skin of the diver's face. Do not attempt to seal over or against a neoprene hood as this will result in leaking, excessive air consumption, and hood inflation. A neoprene hood can be trimmed to allow for the mask to seal properly against the face.

WARNING - Some neoprene hoods compress with increased depth. In those cases, readjusting the harness straps will be necessary. Failure to do so may result in high CO2 levels which will increase the breathing rate, cause panic, and may even lead to a fatal accident.

NOTE – The seal of the mask may also be compromised due to long facial hair causing a leak path across the mask skirt, to achieve the best seal we recommend the user is clean shaven, if required a suitable silicone based mask seal can be applied to the users facial hair to try to improve sealing.

Training and Emergency Procedures

It is highly important that before using the Odyssey FFM you are fully trained and comfortable with the following emergency procedures and examples of how to handle the mask in emergency situations. Seek additional instruction from Northern Diver if necessary.

If you have prior FFM diving experience, it is still a requirement to dive the mask in a pool or similar controlled shallow environment before using the FFM in an open water environment.

WARNING - Do not dive this mask or any associated equipment until you have properly learned and are comfortable with all the emergency procedures.

WARNING - ALWAYS have an available source of back-up air (pony bottle, dive buddy, etc.) and know its location.

CAUTION - Practice these procedures until they can be properly performed. Competence in performing the emergency procedures may help you safely resolve any problems during an actual dive.

NOTE - It is recommended that you carry a spare visor-type mask.

During your training session, you should either be at the bottom of a fixed point in the pool, so you do not lose control of your depth or position in the water column while practicing these skills.

Low Air Procedure Main – Mask with side block

WARNING – During this procedure the mask bailout supply is opened do not hold your breath and breathe normally.

1. Know the location of the side block on the mask.


Pictures showing side block location

NOTE – It is important to be aware of the side block location and comfortable with its operation before use.

2. Open the bailout by fully rotating the handle anti clockwise.

3. Breath normally and begin to end the dive.

Out of Air Procedure Main – Mask with side block

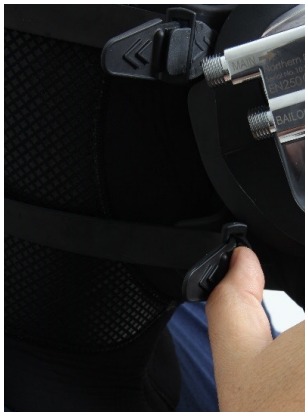
WARNING – During this procedure the mask bailout supply is opened do not hold your breath and breathe normally.

In the event of a low air situation, you must have an available source of back-up air (pony bottle, dive buddy, etc.).

WARNING – During this procedure the mask is removed do not hold your breath, exhale slowly.

1. Know the location of your back-up air supply.
2. Place your thumbs on the lower buckle tabs and push outwards on these tabs to loosen the harness straps





3. Push the mask frame upwards to lift and remove the mask off your head completely.


4. Obtain your alternate air source, clear the regulator, and breathe normally.

5. You can now don a spare mask or terminate the dive without one.

Low Air Procedure Main – Mask without side block

WARNING – During this procedure the mask bailout supply is opened do not hold your breath and breathe normally.

1. Know the location of your back-up air supply in case it is required.
2. Alert your buddy and make hand signal for end dive / Ascend.
3. Breath normally and begin to end the dive.

Out of Air Procedure – Mask without side block

In the event of a low air situation, you must have an available source of back-up air (pony bottle, dive buddy, etc.).

WARNING – During this procedure the mask is removed do not hold your breath, exhale slowly.

1. Know the location of your back-up air supply.
2. Place your thumbs on the lower buckle tabs and push outwards on these tabs to loosen the harness straps.

3. Push the mask frame upwards to lift and remove the mask off your head completely.

4. Obtain your alternate air source, clear the regulator, and breathe normally.

5. You can now don a spare mask or terminate the dive without one.

Donning whilst diving

If the mask is removed or has become distorted during the dive, it is important to understand donning the mask whilst underwater.

WARNING – During this procedure the mask is removed do not hold your breath, exhale slowly.

WARNING – Prepare yourself to be without air for the short time it takes to perform this exercise.

1. Extend the straps as you would on the surface.

2. Slide the harness straps over your head and press the mask skirt to your face.

3. To clear the mask, hold the mask against your face and ensure your face is in an upright (vertical) position. Press the purge button until the water has cleared from the mask sufficiently to start breathing.

CAUTION – You may need to repeat the purging procedure, a small amount of water will always remain in the mask after this procedure.

4. Alternatively, if you have a full breath of air, whilst hold the mask against your face you can forcefully exhale to clear the mask of water.

5. When you are satisfied that the mask is clear of water, tighten the head harness straps beginning with the lower straps, then the higher straps and ending with the top strap.

6. Consider ending the dive after completing this procedure.

WARNING - If the mask fails to clear using these procedures, surface immediately at the correct rate of ascent, informing both surface support team and buddy diver. If breathing becomes difficult, exhale continually during a controlled ascent.

Adjustment whilst diving

If your mask requires adjustment while diving.

1. Centralise the mask onto your face.

2. Snug the straps as required.

WARNING - Be careful not to overtighten the straps as this can cause a potential leak path.

Free Flow of Air

In case of free flow of air into or from the full-face mask, the following procedure is recommended:

1. Continue breathing.

2. End the dive and start ascending to the surface.

WARNING - Under all circumstances end the dive and resolve the situation.
WARNING - Surface immediately at a safe and controlled rate of ascent.

Doffing the Mask

NOTE - It is recommended that you remove your mask only after exiting the water, especially if you question the quality of water you are diving in.

1. Place your thumbs on the lower buckle tabs and push outwards on these tabs to loosen the harness straps.



2. Push the mask frame upwards to lift and remove the mask off your head completely


Post Dive Cleaning and Disinfection Procedure

After the dive/dives are completed, the Odyssey mask must be cleaned and stored in accordance with the instructions contained within this manual. Before doing so, carry out the following:

1. Carefully rinse the mask with fresh clear water. If required, you may use a soft brush and a neutral cleaning agent. Follow the manufacturer's instructions for use.

CAUTION – Ensure all cleaning agent residues are fully washed from the mask before drying and storing.

NOTE - Do not use any harsh detergents, abrasives, or solvents to clean the mask.

2. Press the purge button for 10-15 seconds to purge any water or debris from the regulator.

3. Dry the mask with a lint-free cloth.

4. Close the cylinder valve by turning the cylinder valve handle clockwise until tight.

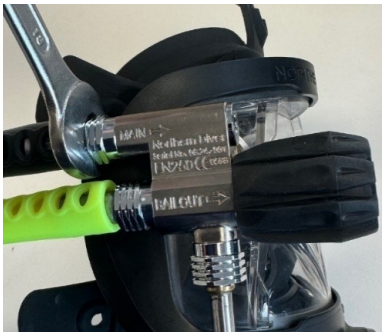
Pictures showing both main and bailout cylinder valves being closed

NOTE – Do this for both cylinders if using the Odyssey mask with side block configuration.

5. Vent the remaining gas from the hoses by pressing the purge button on the mask.

NOTE – Open the side block valve before venting if using the Odyssey mask with side block configuration.

6. Disconnect the hose from the mask second stage / hoses from the side block.




7. Check the mask is thoroughly dry before storing in the case provided.

CAUTION – Odyssey masks used by more than one person must be cleaned and disinfected after each use.

Transport and Storage Procedure

All components of the Odyssey mask must be completely dry before storing.

The mask must avoid direct sunlight and extreme temperatures, and storage temperatures must be between -10°C (14°F) and +50°C (122°F).

During transport, the mask must be stored so that it cannot be damaged or contaminated and so people cannot be injured. The mask must be stored and transported in the supplied storage bag.

Cleaning Service and Maintenance Schedule

Service and testing must as a minimum be carried out according to the below schedule.

MAINTENANCE SCHEDULE TABLE

	FIRST USE	BEFORE EVERY USE	AFTER EVERY USE	MONTHLY	YEARLY	2 YEARLY
PRE-DIVE PROCEDURE	X	X				
FUNCTION VISUAL CHECK	X	X		X		
LEAK CHECK		X				
CLEANING & DISINFECTION			X			
POST-DIVE PROCEDURE			X			
SECOND STAGE REGULATOR SERVICE					X	
SIDE BLOCK SERVICE					X	
MASK SERVICE						X

NOTE – The cleaning frequency must ensure the user that the mask provides a good level of protection and the correct functionality. The cleaning schedule should be followed to a minimum.

CAUTION – Any damage to the face seal, orinasal mask, straps and membranes must be repaired before the mask is used.

CAUTION - It is recommended that the regulator is serviced at least once a year, or after 100 dives. This should only be performed by a certified Odyssey mask service technician, or authorised dive centre using original spare parts.

Troubleshooting

Below are some quick trouble-shooting methods for common problems:

Second Stage Regulator Free Flowing

1. Purge button is stuck due to sand or debris. Clean with fresh water.
2. The second stage regulator requires servicing.
3. The first stage intermediate pressure is higher than 9.5 to 9.8 bar (138 to 142 psi).

Second Stage Heavy Breathing

1. The second stage is contaminated with sand or debris. Clean with fresh water.
2. The second stage regulator requires servicing.
3. The first stage intermediate pressure is lower than 9.5 to 9.8 bar (138 to 142 psi).

Mask Vibration When Breathing

1. The mask is not sitting correctly on your face, and there is a gap between the mask skirt and your face.
2. The harness straps are not adjusted properly, adjust the straps where necessary.
3. The first stage intermediate pressure is higher than 9.5 to 9.8 bar (138 to 142 psi).

Leaking Air

1. The mask is not sitting correctly on your face, and there is a gap between the mask skirt and your face.
2. Hood or hair is trapped inside mask face seal.
3. Straps pulled unevenly or are too tight.
4. Hoses improperly connected to the second stage regulator or side block.

No Air During Predive Check

1. The cylinder valve is not open.
2. The side block bailout valve is not open.
3. No air in the cylinders.
4. Hoses not connected properly.

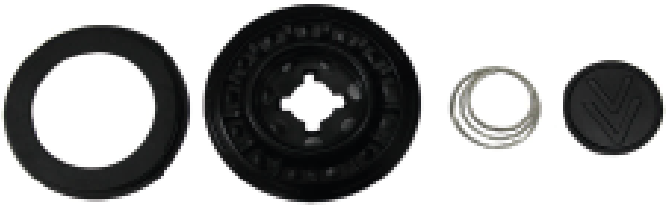
Lens Fogging

1. The factory lens protector has not been removed from the mask lens.
2. Orinasal cavity of the mask is positioned incorrectly or pinched.
3. The mask is not sitting correctly on your face.
4. The orinasal non return valves are contaminated, damaged or missing.

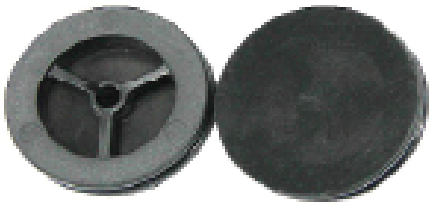
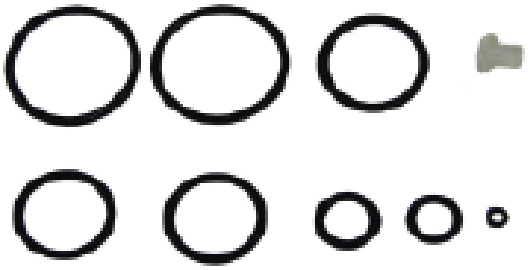
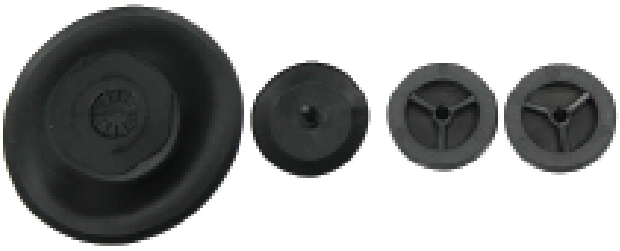
NOTE - If there is failure to resolve these problems, please contact Northern Diver International Engineering & Servicing Department for advice and information on servicing.

Northern Diver International Ltd, Appley Lane North, Appley Bridge, Lancashire, WN69AE, United Kingdom.
Tel: +44(0)1257 25 4444
Engineering@Ndiver.com
https://www.ndiver.com/

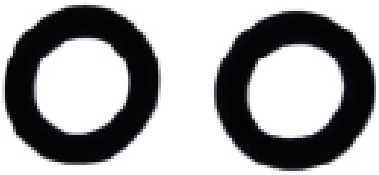
Spare / Servicing Parts

Item	Picture
ND0004025 - Equalising block Kit *(Nose Block, Extension Pad and Wire Frame)*	
ND0004026 - Front Cover Kit *(Inner Diaphragm Cover, Front Cover, Purge Spring and Purge Button)*	
ND0003986 - Harness Buckle Kit *(5pcs total for each strap)*	
ND0001554 – Head Harness Strap	

Spare / Servicing Parts

Item	Picture
ND0003987 - Oronasal Valve *(2pcs total)*	
ND0004027 - Comms Port Cover Kit *(Male & Female components)*	
ND0004028 - Second Stage Service Kit *(O-Rings & Silicone Seat)*	
ND0001942 - Second Stage Lever	
ND0004029 - Mask Service Kit *(Main Diaphragm, Exhaust Diaphragm, 2 x Oronasal Valve)*	

Spare / Servicing Parts

Item	Picture
ND0004030 - Side Block Service Kit *(O-Rings & Spindle with seal)*	
ND0004031 - Side Block Handle *(Includes Locking Nut)*	
ND0004032 - Side Block Supply Tube Service Kit *(O-Rings)*	
ND0004020 – Main Hose Assembly	
ND0004021 – Bailout Hose Assembly	

Warranty

The Odyssey FFM is covered against all manufacturing defects for a warranty period of 12 months from the date of purchase proven by a sales document, excluding:

- Non-conforming use or use other than that foreseen or illustrated in this manual.
- Defects due to damages, incorrect use, accident, tampering, negligence.
- Attempts to make repairs or modifications by personnel not authorised by Northern Diver.
- Repairs or services made using non-original approved spare parts.
- Damages due to transport, falls, accidents, fire, earthquake, floods or other natural disasters.
- Temporarily rented products.

Service History

Observations/ Maintenance carried out	Inspect date	Next inspection	Name	Signature

Service History

Observations/ Maintenance carried out	Inspect date	Next inspection	Name	Signature

Service History

Observations/ Maintenance carried out	Inspect date	Next inspection	Name	Signature


NORTHERN DIVER