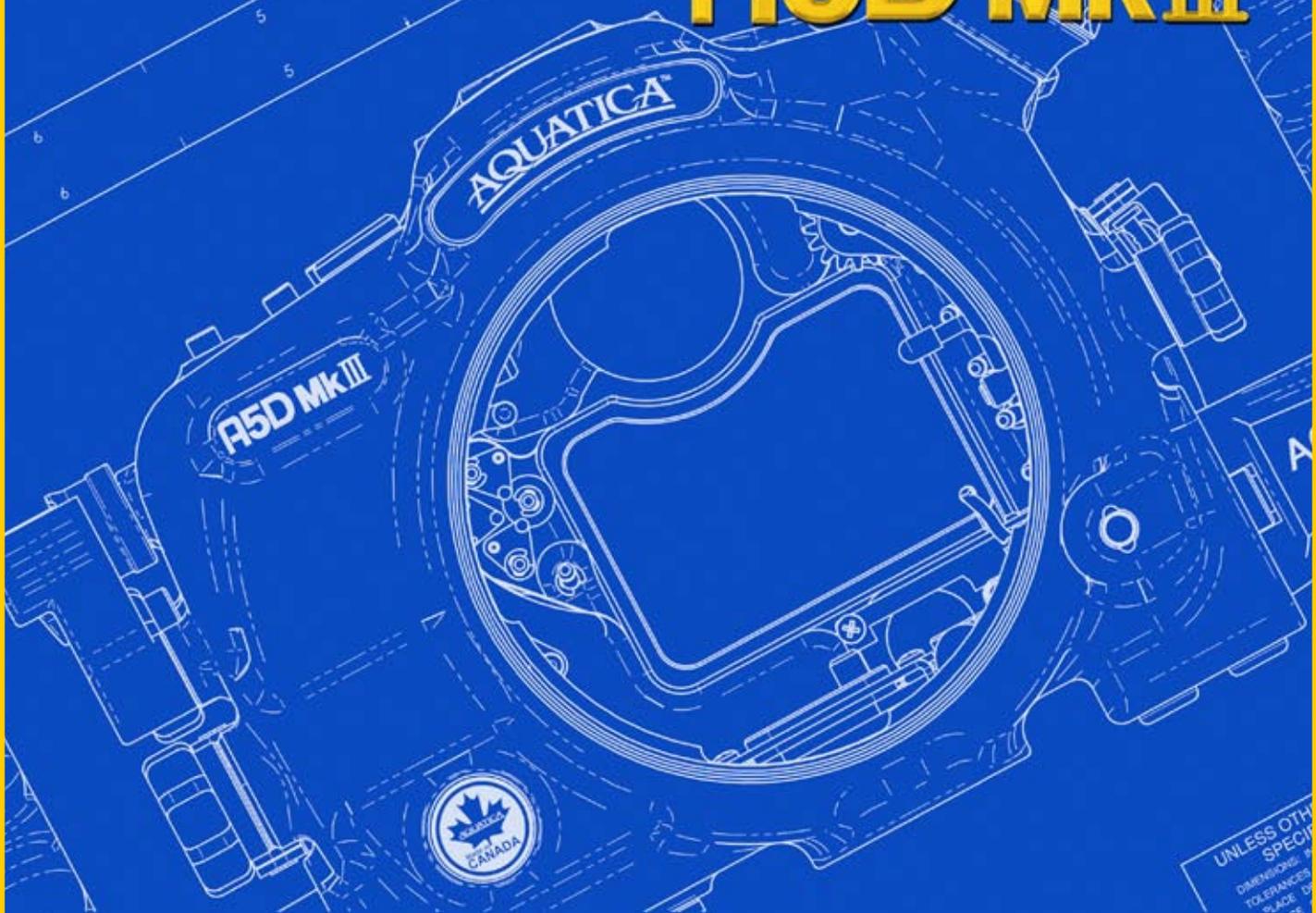


AQUATICA™

Digital

A5D Mk III



Operating manual for the Aquatica A5D Mk III
PRODUCT # 20071



FOREWORD

Thank you for having selected the AQUATICA Pro Digital Camera Housing System for your underwater photography.

The AQUATICA Pro Digital Housing is the result of a long and continuing relationship with the most demanding underwater photographers in the world. Each housings is handcrafted, quality checked and pressure tested to a 300 feet equivalent by a small group of specially trained individuals, each of whom takes the utmost pride and satisfaction in offering the best underwater camera housing in the world.

The Aquatica Pro Digital Housing was designed for optimum technical and optical performance and to provide easy and efficient underwater access to essentials functions and controls of the Canon 5D Mk III DSLR.

This manual assumes that the User is already familiar with the Canon 5D Mk III camera. If not, please read the Canon instruction manual before attempting to use the housing.

With basic care and maintenance, your AQUATICA housing will give you a lifetime of enjoyment and satisfaction in producing underwater images.

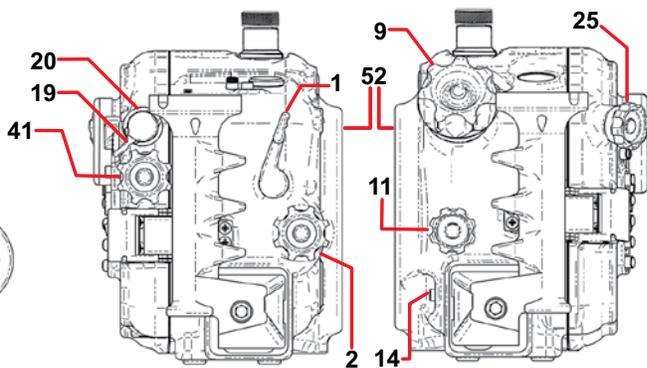
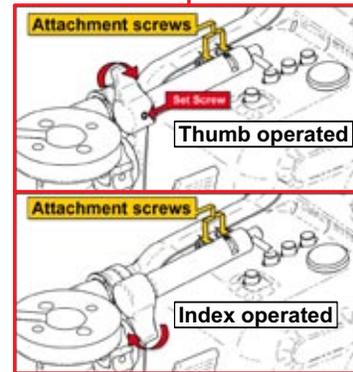
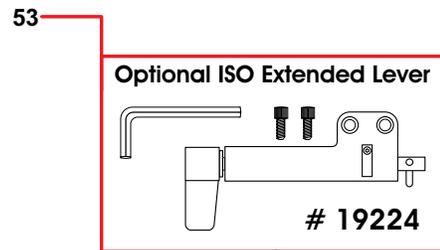
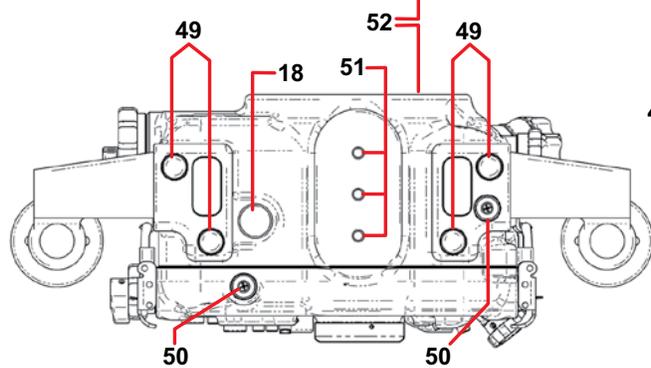
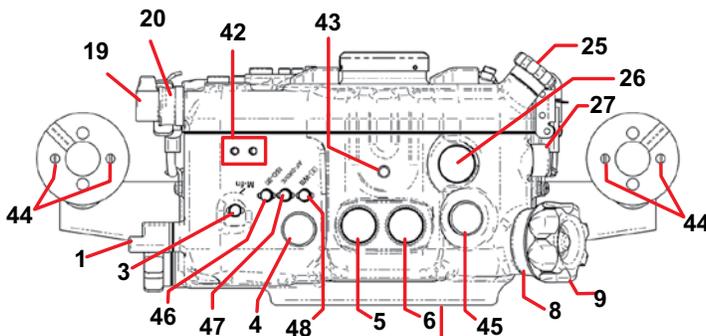
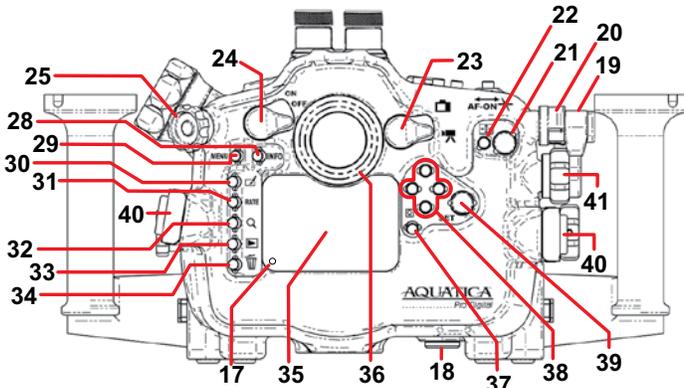
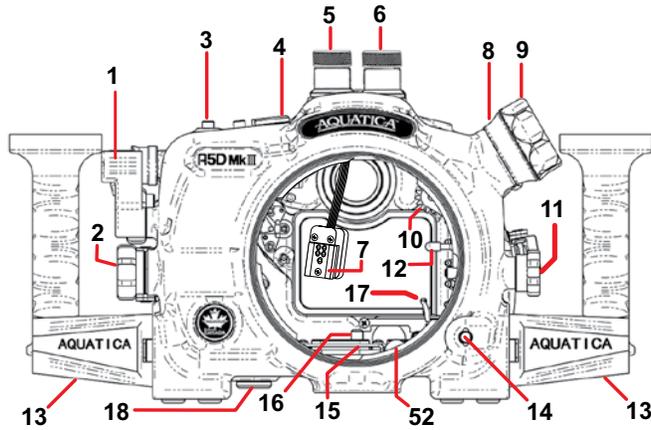
Please read this manual carefully before using your housing for the first time and note that: wherever cited the right hand is your right when using the housing.

SAFETY PRECAUTIONS:

Improper transportation handling or use of this housing might cause a flood or malfunction.

Please read and follow the following precautions:

- Store and transport the housing in a sturdy, shock proof container and avoid travelling with the camera mounted inside the housing as impact forces especially on the external push buttons will be transferred to the camera.
- When travelling by air, either remove the port or open the housing.
- Never change a port or open the housing in a location where sand or similar foreign material might come in contact with an O-ring.
- Use of accessories or modifications and alterations unauthorized by the manufacturer may result in flooding or poor functioning of the controls.
- Be careful when opening the housing as the pressure buildup inside the housing will exaggerate the force of the latch spring. Keep fingers away from the path of the latches.
- Whenever changing ports or O-rings, perform a simple seal test with out the camera inside.
- Avoid scratching the acrylic or glass ports and windows.
- Make sure that all ports remain properly attached before rinsing the housing, especially when rinsing without a strobe make sure the bulkhead connector is sealed with its plug.
- Never attempt to operate the camera in autofocus mode with the lens mounted focus gear engaged with the housing gear.
- The main O-ring seals should be maintained and cleaned on a regular basis. Read and follow the *Care and Maintenance* section on this manual.
- Ensure that the spring loaded secondary lock is properly engaged on the latches to prevent their accidental opening.



Nomenclature

AQUATICA™
Digital

A5D MkIII

- 1- Shutter Release lever
- 2- Main Dial access knob
- 3- M-Fn (Multi Function) button
- 4- Accessory Bulkhead connection hole
- 5- Main Strobe connector (TTL Compliant)
- 6- Secondary Strobe connector (manual only)
- 7- Hot Shoe connection
- 8- Focus/zoom pinion gear release disc
- 9- Focus/Zoom control knob
- 10- Focus/Zoom Pinion gear
- 11- Lens Release lever
- 12- Lens Lever Actuator
- 13- Grips (Left & Right)
- 14- Port/Extension Release Button
- 15- Camera Quick Release Tray
- 16- Camera mounting screw (1/4"-20)
- 17- Moisture Alarm LED
- 18- Accessory Bulkhead connection hole
- 19- AF-ON & Star Lever
- 20- AF-ON & Star Lever rotating Collar
- 21- Start/Stop button
- 22- AF Point Selection button
- 23- Live View Shooting/Movie Shooting Switch
- 24- Power Switch
- 25- Mode Dial selector knob
- 26- Mode Dial port window
- 27- Mode Dial lock release lever
- 28- Info button
- 29- Menu button
- 30- Creative Photo button
- 31- Rate button
- 32- Index/Magnify button
- 33- Playback button
- 34- Erase button
- 35- LCD Window port
- 36- Removable Eye Piece
- 37- Quick Control Button
- 38- Multi Controller Buttons Array
- 39- Setting Button
- 40- Latches (2x)
- 41- Quick Control dial access knob
- 42- Attachment screw holes for optional ISO Extended Lever
- 43- Top accessory mounting hole (1/4"-20)
- 44- Grips accessories mounting holes (1/4"-20)
- 45- Accessory Bulkhead connection hole
- 46- ISO/Flash exposure compensation button
- 47- AF-Drive button
- 48- Metering/White Balance button
- 49- Rubber Anti Skid pads (4x)
- 50- Sacrificial Anodes
- 51- Tripod/Accessories mounting holes (1/4"-20)
- 52- Bayonet Flange
- 53- Optional ISO Extended Lever

CONTROLS IN DETAIL

1. **SHUTTER RELEASE LEVER:** Pulling the shutter release lever back part way activates the camera meter and auto focus. Pulling the lever back all the way fires the camera.
2. **MAIN DIAL ACCESS KNOB:** Rotates clockwise and counterclockwise. Use alone or in combination with other controls to select or set various camera functions or modes. In "Manual" the exposure mode controls the shutter speed settings (see camera manual).
3. **M-Fn BUTTON:** Press to engage the Multifunction /AF area selector button.
4. **ACCESSORY BULKHEAD CONNECTION HOLE:** For additional strobe, remote control connector or other accessories.
5. **MAIN STROBE CONNECTOR:** (TTL converter ready 6 pins Nikonos type by default, other type of connections available on request).
6. **SECONDARY STROBE CONNECTOR:** (Manual Nikonos type by default other option available on request).
7. **HOT SHOE CONNECTOR:** Connects the camera to the strobe connectors. Slide this Connector into the camera Hot Shoe. When detaching do not pull the cord as this might damage the electrical connections.
8. **FOCUS/ZOOM PINION GEAR RELEASE DISC:** A release disk is provided to disengage the pinion gear from the lens gear should you wish to remove the camera with lens attached from the housing.
9. **FOCUS/ZOOM KNOB:** Turning allows manual focus of a prime lens or rotation of the zoom mechanism on a zoom lens.
10. **FOCUS/ZOOM PINION GEAR:** Engages and operates the focus or zoom gear attached to the lens.
11. **LENS RELEASE LEVER:** Activates the lens release button on the camera for removal of the lens.
12. **LENS RELEASE LEVER ACTUATOR:** Applies pressure on the camera lens lock button.
13. **GRIPS (X2):** Left and right grip allowing the mounting of strobe arms and accessories.
14. **PORT/EXTENSION RELEASE BUTTON:** Press down to release the locking mechanism when installing or removing a port or extension.
15. **CAMERA QUICK RELEASE TRAY:** Holds the camera securely in position inside the housing.
16. **CAMERA MOUNTING SCREW:** Attaches the camera to the tray with a 1/4"-20 screw (same thread found on tripod screws)
17. **MOISTURE ALARM WARNING DIODE:** Warning LED will light up in the unlikely event of water penetrating the housing.
18. **ACCESSORY BULKHEAD CONNECTION HOLE:** For remote control connector and/or other accessories.
19. **AF-ON / AF-START / STAR ACCESS LEVER:** This lever can be pull outward or inward to access both the AF-ON feature and the Star customizable button, these are important controls for video shooting and care should be taken to fully understand their working and subtleties.
20. **AF-ON / AF-START / STAR ROTATING COLLAR:** This collar rotates for selecting either the AF-ON button or the STAR button, simply pull lever out, rotate to the desired setting and press back the lever into place.

21. **START/STOP BUTTON:** Press to activate video recording.
22. **AF POINT SELECTOR:** Push to select the AF pattern desired.
23. **LIVE VIEW ACTIVATING BUTTON:** Flip lever to select the LIVE VIEW feature of your camera, this is the first step in setting up the camera for video shooting.
24. **POWER SWITCH LEVER:** Flip to turn the camera power ON or OFF
25. **MODE DIAL ACCESS KNOB:** Rotate to select the proper shooting mode, C1, C2 and C3 can pre programmed with personal parameter and care should be taken to understand and take advantage of the various combinations available.
26. **MODE DIAL PORT WINDOW:** Enables viewing of the different release options.
27. **MODE DIAL LOCK RELEASE LEVER:** Engages lever to release the mode dial locking feature.
28. **INFO BUTTON:** This button will activate the rear LCD and display all pertinent shooting information.
29. **MENU BUTTON:** Press to activate menu display, scroll using main or quick dial control knob and select by pressing the SET function button
30. **CREATIVE PHOTO BUTTON:** Press to select the desired feature. (note: It is somewhat recommended to shoot in RAW format and concentrate on these option in post production).
31. **RATE BUTTON:** Press to select the desired rating you wish to allocate to the image.
32. **INDEX/ MAGNIFY BUTTON:** Press to access the index and to magnify the reviewed image.
33. **PLAYBACK BUTTON:** Press to activate the monitor and review images.
34. **ERASE BUTTON:** Press to delete images.
35. **REAR WINDOW LCD:** This port window allows viewing of the recorded images and is used in the Live View as well as the Video mode for framing, a cutaway in the upper right corner allows the users to see the recording pilot light. Allow viewing of menus as well.
36. **REMOVABLE VIEWFINDER:** Provides a full view of the camera viewfinder, including displays of all necessary information. This viewfinder be removed and replaced with our optional Aqua View Finders for a larger displayed image. These are available in straight 180 degrees or angled at 45 degrees.
37. **QUICK CONTROL BUTTON:** Push to select and set the shooting functions displayed on the LCD monitor screen.
38. **MULTI CONTROLLER BUTTONS ARRAY:** Used to navigate through the Quick Control Menus and other functions.
39. **SETTING BUTTON:** Push this oversized button to confirm your menu selection or options.
40. **LATCHES:** Two heavy duty latches with safety locks to protect against accidental opening.

CONTROLS IN DETAIL, CONTINUED

41. **QUICK CONTROL DIAL ACCESS KNOB:** Rotates clockwise and counterclockwise. It can be used alone or in combination with other controls to select or set various camera functions or modes. Refer to camera manual for in depth use.
42. **ATTACHEMENT SCREW HOLES FOR OPTIONAL ISO EXTENDED LEVER:** For mounting the optional ISO Extended Lever, this lever give a quick, flexible and comfortable access to the ISO button, it can be positioned for thumb or index activation.
43. **TOP ACCESSORY MOUNTING HOLE:** A 1/4"-20 TPI hole is supplied to accept a TLC accessory or TLC base ball for mounting a strobe arm or a modeling light.
44. **GRIP'S ACCESSORIES MOUNTING HOLES:** Two 1/4-20 TPI holes on each grip are ready to accept TLC Base Brackets or TLC Base Ball for strobe arms or accessories.
45. **ACCESSORY BULKHEAD CONNECTION HOLE:** For remote control connector and/or other accessories.
46. **ISO / FLASH EXPOSURE COMPENSATION:** Press to select ISO sensitivity* or the exposure correction of the flash
* The ISO button can be accessed via the optional ISO Extended Lever (accessory product # 19224). See item # 53 below for more information
47. **AF/ DRIVE SELECTOR BUTTON:** press to select either AF Mode or the DRIVE modes options.
48. **METERING PATTERN / WHITE BALANCE MODE BUTTON:** Press to select the appropriate metering mode and/or White Balance mode.
49. **RUBBER ANTI SKID PADS:** Four rubber pads are provided to protect the housing and preventing it from sliding on wet decks.
50. **SACRIFICIAL ANODES:** (2X) zinc anodes are installed to protect your housing against salt water corrosion; theses are made to deteriorate faster than the other strategic metal part of your housing, hence the name sacrificial anodes. These anodes need to be replaced occasionally by the user over time.
51. **MOUNTING HOLES:** Three 1/4" X 20 holes are provided for mounting to a tripod, strobes trays or accessories.
52. **BAYONNET MOUNTING FLANGE:** Allows the mounting of different ports and extension rings on the housing.
53. **OPTIONAL ISO EXTENDED LEVER:** This optional lever (accessory product # 19224) is designed to moves the access to the ISO function closer to the grip, from this position, it can then be adjusted to operate with your thumb or your index simply by loosening the set screw and rotating the lever on the shaft to the desired position.



FEATURES

This Aquatica Pro Digital housing is issued from the world's most technologically advanced underwater housing lineage, it is ergonomically designed to place all of the essential camera controls under your finger tips and features the following:

- A. A port locking mechanism to prevent accidental rotation of the port or extension mounted on the housing
- B. A Lens Lock Release control that will activate the lens release button of camera from the outside of the housing.
- C. A quick release tray, allowing fast and easy removal of camera even with the lens and focus/zoom gear attached.
- D. Large ergonomic and easy to operate controls for most of the manual and computerized camera functions.
- E. The industry most flexible strobes connector circuitry that will allows adaptation according to ones needs.
- F. The following controls can be easily manipulated or accessed underwater:
 - Mechanical shutter release.
 - Shutter speed through the Main Dial
 - Aperture through the Quick Control Dial
 - Focus / Zoom
 - AE-L/AF-L & AF-ON and * (star) access
 - Metering system selector
 - Exposure mode (Mode)
 - Exposure Compensation
 - Focus Area Selector
 - ISO sensitivity
 - Delete button access
 - Live view & Video recording access
- G. A complete selection of bayonet mounted ports including the 4", 6", 8" and 9.25" diameter dome, three flat ports, various port extension rings, including some with focus access, to assist in preserving the image quality of your EF mount lenses. Extension to dome port locking collar are also available as are adapters for various other makes of ports.
- H. A comprehensive line of lens gears and related accessories.

PREPARATION OF THE HOUSING

1. Attaching the grips to the housing:

The housing is supplied with two Grips (right and left # 13) these attaches on the sides of the housing with the supplied cap screws and Hexagonal wrench. we strongly recommend to occasionally remove the grips and lubricate the screws (see Care and Maintenance: of the housing.)

You can mount the necessary shoes or brackets for your strobe system onto the 1/4"-20 threaded holes provided on top of the hand grips. The AQUATICA TLC strobe arm system is highly recommended, as it was designed to work with your housing from the onset.

On the bottom part of the housing are three (3) 1/4"-20 threaded holes which can be used for mounting a tripod or or accessory tray. On the top of the housing is another 1/4"-20 hole for mounting accessories such as a video or focusing light.

Mount your strobe and connect the sync cord to the housing's strobe bulkhead as per your strobe manufacturer recommendation. Please also read the section titled "Care and Maintenance: of the O-rings" concerning your strobe lubricant. It is recommended to remove electrical sync cord frequently in order to prevent corrosion built up.

2. Lubricate the Main O-ring Seal:

Before closing up the housing, carefully inspect the Main O-ring seal in its groove located on the rear portion of the housing and check the sealing surface on the front half of the housing to confirm that it is free from scratches or foreign material. Lubricate the O-ring with a light coat of Aquatica O-ring Lubricant (Never use Lubricant intended for silicone type O-ring on Aquatica's O-ring, be safe, use only original Aquatica supplied lubricant).

When replacing the main O-ring back into place, press the entire O-ring over the O-ring groove and start by pushing the O-ring in the corners. Work your way around the O-ring making sure the O-ring is sitting properly in its groove.

For proper handling and maintenance of O-rings be sure to read the section titled "Care and Maintenance: of the O-rings."

PREPARATION OF THE PORTS

1. Select the correct port:

According to your shooting requirement (macro or wide angle photography), you will be installing either a flat Macro Port (product # 18426, 18428 or 18429), or a Dome Port (Product # 18405, 18407, 18409 or 18410). *Refer to the Canon Type 4 lens chart for assistance in selecting the right port and accessories for your needs.*

Macro Port Extension Rings: Some Macro lens may require an additional extension ring. These extension rings are inserted between the Macro Port and the housing to provide the necessary space for these longer lenses.

Dome Port Extension Rings: Frequently, when using a wide angle or zoom lens, your Dome Port may require the uses of an extension ring to align its optical center with that of the lens being used. These port extension rings are inserted between the Dome Port and the housing.

In order to reduce glare, maximize contrast and offer physical protection to the dome, the use of a dome shade is highly recommended. *See the Canon Type 4 lens chart for the suggested dome shade.*

A comprehensive list of the lenses supported and their required extensions and/or accessories is supplied along with this manual. For the latest updated version of this lens chart, you should refer to the Canon Type 4 Lens Chart available from our website:

http://www.aquatica.ca/en/products_zoom.html

2. Cleaning the port:

Dirt, grease or fingerprints on the port, especially on the inside, can adversely affect the quality of the image. Acrylic ports should be cleaned with plastic cleaner and the glass ports should be cleaned with lens cleaner. For more details please refer to the section titled "*Care and Maintenance: of the Ports.*"

3. Lubricate the port O-ring seal:

Before using the port, remove the O-ring on the rear of the port and lightly coat it with Aquatica O-ring Lubricant. For more details please refer to the section titled "*Care and Maintenance: of the O-rings.*"

PREPARATION OF THE LENS

Aquatica has a wide selection of Focus and Zoom gears to accommodate the most popular lenses used in underwater photography. Correctly mounting and securing these gears on a lens is elementary for a smooth operation. Follow the installation directions included with each gears carefully. The use of EF type's lenses is mandatory.

A comprehensive list of the lenses supported and their required gears is supplied along with this manual. For the latest updated version of this lens chart, you can refer to the Canon Type 4 Lens Chart: http://www.aquatica.ca/en/products_zoom.html

Notes: If the camera is set in manual focus a focus gear must be mounted on the lens. If you are using a zoom lens with a zoom ring the camera must be on auto focus, unless you are using one of the dedicated port or extension ring with a focusing knob, also noteworthy is that some wide angle lens may require a close up lens (Diopter) when used behind some dome port, the purpose of the close up lens is to correct the minimum focusing distance of the lens so that it will be able to focus on the virtual image created by the dome port. *Refer to the Canon Type 4 lens chart to confirm if one is needed and for the suggested close up/diopter strength if required.*

Gear installation:

Your Focus or Zoom gear packaging contain the instruction for properly mounting the gear onto the lens, please follow packaging instruction. Once installed, rotate the focus ring several times to make sure it moves smoothly and the gear does not slip before closing the housing

WARNING: If the lens is a not of the USM type, never attempt to operate it with the camera in autofocus mode and with a mounted focus gear engaged. This might cause serious damage to your lens focusing mechanism.

Zoom lenses: if using a zoom lens, the gear should be mounted on the zoom lens control. The housing focus control then becomes the zoom control. Focusing of lens is achieved by using the camera's autofocus system or by a dedicated knob on the port or port extension.

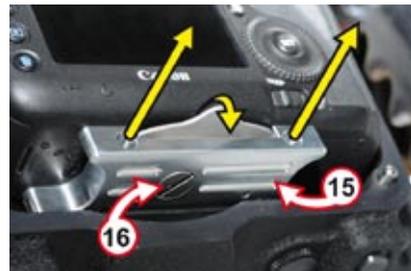
CAMERA PREPARATION AND INSTALLATION

1. **Important Note:** Prior to installing the camera in the housing, remove the camera strap, any “D” Clips and/or any object that might obstruct installation or get in the way.

2. Remove the camera tray (#15) from the housing and carefully place the camera on it ensuring that the camera is properly installed as follows:

a) The camera is properly aligned and secured against rotation or movement on the camera tray (#15).

b) Align the Tripod Socket of the camera with the mounting screw (# 16). Tighten securely while ensuring that the camera position is not altered.



3. Slide the quick release tray back into place as per drawing at right.

4. The power switch must be in the ON position on both the housing (# 24) and on the camera body.

5. The Live View/Movie Shooting lever must be in the Live View position on both the housing (# 23) and on the camera.

6. Slide the housing’s hot shoe connector onto the hot shoe base of the camera, as seen in photo at right. Be careful to tuck the wiring harness safely out of the way.



7. If using a Monitor, confirm the connection and secure all wiring and cable that could potentially get caught in between the rear and front of the housing, this is a critical and essential thing to check.

CLOSING OF THE HOUSING

Before closing the housing always verifies that:

1. The main O-ring on the front half of the housing is clean, lubricated and properly seated for a positive seal.
2. The sealing surface on the rear half of the housing is clean and free from any scratches or physical damage.
3. All cords or wires are tucked in so that they do not interfere with the closing of the housing.
4. The ON/OFF and Live View levers are in the same position on both the camera and the housing.

To close the housing simply:

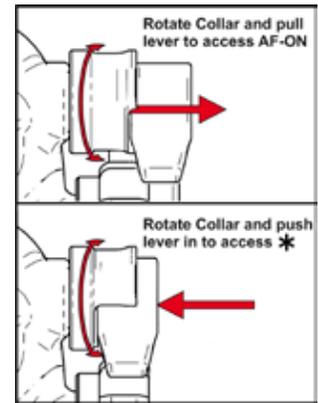
- i. Join the front and rear halves of the housing using the two dowel pins at the bottom of the housing as a reference.
- ii. Hold the housing with both hands and look around the sealing surface to ensure that the O-ring remained properly seated and that no cords, wires or “D-rings” are caught between the edges.
- iii. Close the two side latches simultaneously. Reverse the process to open housing

CAUTION: if you feel any resistance as you attempt to close the latches, do not force the closure. Check for an obstruction and try again.

- iv. Verify that the safety locking mechanisms of the latches are properly engaged to avoid any accidental opening.
- v. Activate all controls of the camera, confirming that the camera is aligned as it should and that none of the controls are obstructed.

AF-ON & STAR LEVER

The lever in the rear right portion of the housing (#19) can be used to access the AF-ON and/or the * (star) buttons, just pull outward or inward to access the desired function, then rotate the collar (#20), these two buttons can be assigned a variety of custom function to conform to your personal style of shooting, we suggest that you refer to the Canon 5D Mk II instruction manual to pull the maximum out of these highly creative features.



LENS INSTALLATION

With the camera inside the housing, install the lens prepared with the gears through the port opening in the front of the housing. Ensure that the lens mounted gears are properly installed and aligned. Rotate the focus / zoom control knob to ensure that the gear is properly meshed, do not grind and that their rotation is smooth.

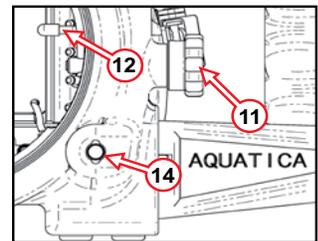
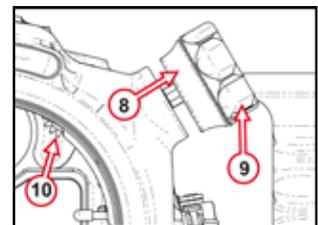
Note: To avoid damaging the auto-focus mechanism of the camera when using standard EF type lenses, you should always set the Focus Control on the lens to “M” Manual for testing the proper meshing of a focusing gear. This procedure is not required with USM type lenses.

CHANGING A LENS (REMOVING A LENS)

The lens mounted gears may restrict the view and ease of access to the lens release button of camera. The AQUATICA Pro Digital Housing features a Lens Release Lever (key # 11) that is designed to trigger the lens release button of camera to allow easy removal of lens.

To remove a lens, simply rotate Lens Release Lever (key # 11) to press the camera lens release, hold and turn the lens clockwise.

Alternatively, pulling on the retracting disc (# 8) underneath the Focus/Zoom knob (# 9), and turning it so that it stay in the up position, will disengage the pinion gear (# 10) from the focus or zoom gear attached to the lens, pull out the lens release (# 11) and you can then pull the camera right out of the housing with the lens and gear attached.



MOUNTING THE PORT

Before mounting the Port on the Housing always ensures that the port O-ring is clean, lubricated and properly seated in its groove. Inspect the sealing surface on the housing to confirm that it is clean and free of physical damage.

The AQUATICA Pro Digital Housing System features a locking bayonet mount (#52). To mount the port or extension ring simply:

1. Place the housing on its back on a soft steady surface.
2. Place the port or extension ring inside the main port of the housing. Align one of the four alignment notches with the opening of the housing.
3. Place your hands on opposite sides of the port or extension ring.
4. Push with even force on both sides of the port or extension ring until you feel it snap into place. Make sure the bayonet is completely inside the housing.
5. Finally press the port lock button (# 14) down, turn the Port clockwise until it stops and then releases the port lock button. Do not force it. If there is too much resistance take the port off, check the O-ring and retry.
6. Check to ensure for the proper seating and sealing of the port or extension and that it is safely locked on the housing.

Note : It is recommended that you familiarize yourself with this mount by trying it without the camera, this will allow you to see the inside view of the bayonet mount and of the ports or extension rings in the housing.

MOUNTING AND ATTACHING FLASHES

You can mount the necessary shoes, brackets or Base Ball for your lighting onto the threaded holes on the top of the hand grips. Use of the Aquatica TLC Strobe Arm System is recommended.

There are three 1/4"-20 threaded holes on the bottom of the housing that can also be used for various applications. For example, a mounting tray can be fitted on the bottom of the housing.

Lastly a 1/4"-20 threaded hole on top of the housing is ready to accept an Aquatica bracket or Base Ball that can hold a focusing light or an extra strobe arm.

Strobe setup:

Your Aquatica 5D Mk III Pro Digital housing is supplied with two Nikonos type connectors which are in turn connected to a switch board circuit. (The A5D Mk III housing can also be supplied with a single Ikelite bulkheads connector).

The strobes sync cords O-ring should be lubricated with the recommended O-Ring lubricant from your strobe manufacturer, Also advisable is to put a light coat of the lubricant on the threads of this connector, doing so reduces the risk of corrosion. Your Canon Digital camera design does not allow flashes to be connected directly to the camera and be used in eTTL unless they are original Canon flashes in third party housing with the required connector and cords.

IMPORTANT NOTE FOR STROBE SYNC CORD O-RINGS: You should only use to the recommended O-ring lubricant from your strobes manufacturer on your sync cords O-ring and never on your Aquatica housing O-rings. Some lubricant may not be compatible with the material used in our or other manufacturer O-ring materials, swelling and damage to the O-ring could results from doing so.

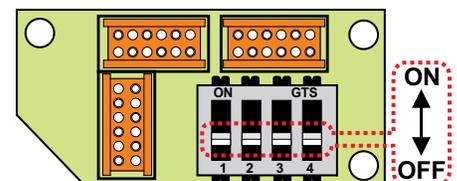
Some sync cord on the market have been known to contain poor quality and highly conductive material in the construction of the bulkhead plug, removing the sync cord frequently, cleaning the threads and lubricating them is the first step in preventing the sync cord from locking up in the thread due to the sync cord corrosion built up.

On top of your housing, you will find two Nikonos type bulkhead connectors, the main and secondary connectors are wired through a switch board that gives the user the option of alternating between TTL and Manual flash exposure. (By default you housing is delivered with the switch board set to full manual), if eTTL exposure is desired then it can be made in either of the two following methods:

- 1) By using a single flash from Canon (or other brand eTTL compatible brand) in a designated underwater housing connected with a 6 pins TTL sync cord to a compatible 6 pins connectors on your Aquatica housing.
- 2) By using an external eTTL converter connected to the main Nikonos type 6 pins connector on your Aquatica housing. On this converter, one or two underwater strobes with compatible TTL cords can then connected, (confirm compatibility of the strobes and converter with their respective manufacturers).

Set up instruction for eTTL operation

Using the tip of a pen push the switches 1, 2, 3 & 4 to the ON (up) position, this will activate the connections on your main 6 pins bulkhead connector allowing eTTL communication between the camera and the housed flash or eTTL converter.



Set up instruction for manual operation

All switches must be in the OFF (lower) position, in this case all eTTL connections are disabled and only the ground and sync are left active, this will allow two underwater strobes or housed flashes to be connected directly via the main and secondary bulkhead.

FIELD MAINTENANCE

Whenever changing ports or O-rings, it is highly advisable to perform a simple seal test without the camera inside. Strapping a weight to the housing and lowering the unit to a depth of 30 to 50 feet of water for at least 10 minutes will assure you that the seating of the new port or o-ring is proper. This test, though time consuming and often considered unnecessary, may save your camera equipment from irreparable water damage. The housing is now ready for the dive.

CAUTION: Never jump into the water with the housing. It is best to have the system handed to you after you have made your entry, or have it lowered to you on a rope. Make certain that ropes of other equipment stay clear of the system.

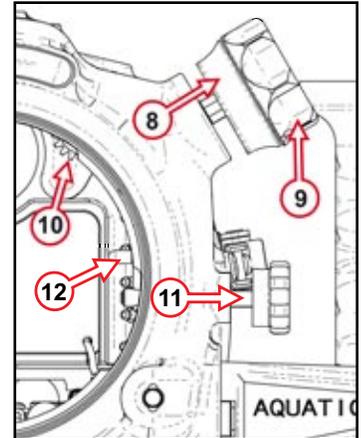
When photographing, be sure to respect the environment. Avoid damaging marine life or manipulating sea creatures to obtain a pleasing photo. The housing is slightly negatively buoyant so that you can lay it down on the bottom, but avoid laying it on living coral or other delicate marine life.

Changing the memory cards

Before opening the housing to change memory card, you should always thoroughly dry the housing wiping it with a dry towel. If possible it is suggested that the housing be blown dried by directing a low pressure air nozzle around the main o-ring before opening.

Rest the housing on its front with the lens facing down, be careful to protect the port surface, release the two side latches simultaneously. Lift the rear part of the housing and place it in a secure location. This minimizes the possibility of any residual water falling into the housing and on to the camera when the housing is opened or damage to the sealing surface.

Pull the lens release lever (# 11) so the actuator (#12) clears the lens gear. Pull and rotate the retracting disc (#8) and Focus/Zoom knob (# 9) and rest it in the upper position, this will disengage the pinion gear (# 10) of the housing from the lens gear, you are now free to pull the camera tray out without requiring the removal of the port or lens.



TRANSPORTING THE AQUATICA Pro Digital housing

Store the AQUATICA Pro Digital housing in a sturdy, shock proof container. When travelling by air, remove or loosen the port. This allows for equalization of the air pressure inside the housing to the external air pressure. Failure to do so may cause serious damage to the acrylic ports. Avoid travelling with the camera mounted in the housing. If you must do so, remove the lens as external pressure can damage the camera.

CARE AND MAINTENANCE

Of the housing:

After each and every salt water dive, your housing system should be soaked or rinsed in fresh water. The housing system should soak in fresh water for at least 30 minutes. During this soaking period operate all the controls several times to flush out any residual salt water.

Be sure to inspect the housing's main o-ring and clean it after every use. Refer to Maintenance: Of the O-rings. To ensure that the hand grips won't fuse on to the housing due to the exposure to salt water, it is also a good practice to occasionally remove the hand grips. Clean and lubricate the bolts with a small amount of WD-40.

WARNING: Use WD-40 carefully, sparingly and only on metal to metal surfaces. WD-40 can damage the acrylic on the ports, the optical surfaces on lens as well as the O-rings.

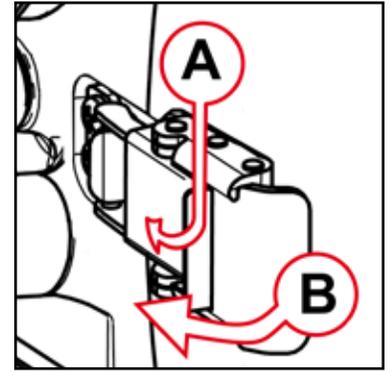
Of the Ports:

Care should be taken with the Dome Port and Macro Port to avoid scratches on the lens surface. The acrylic port is softer than glass so minor exterior scratches are often unavoidable. However, since the indices of refraction for acrylic and water are almost equal the scratches will not seriously impair image quality. Internal scratches (air side) must be avoided as they do not fill in with water and will affect the quality of the image.

Clean the dome using only products recommended for cleaning acrylic and a soft lint free cloth. Dust on the interior surfaces of the port can be removed with a soft camel hair brush or a blower brush. Caution must be taken when using aerosol devices as not to spray the lens material with the liquid propellant as this may seriously affect the optical properties of the port. Use of pressurize air from a dive tank is not recommended, the force of the air stream may easily dislodge a port or O-ring, It is advisable that ports and extension O-rings should be removed and serviced after every dive.

Of the Latches:

The two latches of the AQUATICA Digital are equipped with safety locking tabs, their locking action prevent accidental opening of the latches. To open push the safety locking tab (A) and then lift the two latches (B) simultaneously as per illustration. When closing and prior to the immersing the housing always ensure that the locking tab mechanism is engaged. Watch for the build-up of corrosion or salt residue around the latches. This will appear as a white material. Lubricate the latches with a small amount of WD-40 to remove the corrosion or salt residue build-up.



Of the O-Rings:

The O-rings that need to be maintained on a regular basis are the main housing O-ring and the O-ring on the lens port. The main O-ring should be cleaned and inspected on a daily basis and the port O-ring should be cleaned every time a port or extension is changed or removed.

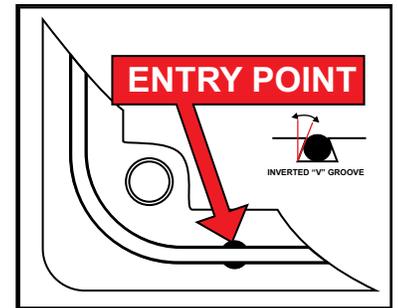
Of the sacrificial anode:

Two anodes (# 50) are attached to the bottom part of the housing. These prevent corrosion caused by electrolysis, as time goes they will deteriorates and eventually will require replacing, contact your dealer for replacement (parts # 19220).

TO SERVICE O-RINGS ON THE HOUSING MAIN O-RING, PORTS AND EXTENSION RINGS

1. Remove the O-ring. It is important never to use a sharp instrument when removing an O-ring as this may damage the O-ring groove or the O-ring itself. A dull pointed object or the edge of a credit card usually works well.

Note: The main O-ring is inserted in an inverted V groove to prevent it from popping out accidentally, to remove, use a dull pointed object and insert in the side of the small opening on the lower left hand side corner of the front of the housing. Do not use sharp objects or excessive force; this could result in damage to the sealing surface.



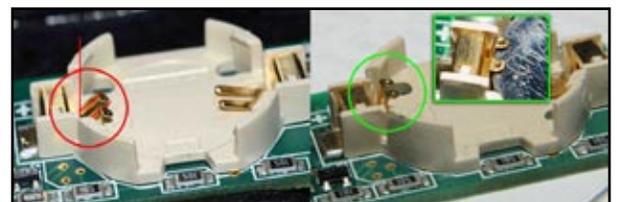
2. Once the O-ring is removed, it should be examined for damage. Check to make sure that the O-ring is free of nicks and cuts and that it retains its original round profile. O-rings that appear to be damaged should be discarded immediately and replaced with new O-rings.
3. Rinse the O-ring with fresh water and dry it with a clean lint free cloth.
4. Clean the O-ring groove (where the O-ring sits) with a cotton swab. Be sure to remove any lint the cotton swab may leave behind. Inspect the groove for damage.
5. Wipe the part of the housing that the O-ring seals against with a clean lint-free cloth.
6. Re-grease the O-ring with a thin layer of O-ring grease until it appears to be smooth and shiny. Do not over grease it. Use just enough grease so the O-ring will pull smoothly through your fingers. Excessive amounts of grease will only serve to attract dirt to the o-ring.
7. Make sure that the O-ring is properly (evenly) installed in the O-ring groove.
8. To reinstall the clean and lubricated O-ring, place the entire O-ring over the groove and start by pushing the O-ring in at each corner then, push the O-ring at each side and finally, work in the rest of the O-ring. Never start at one end and work your way around the O-ring. This places uneven tension on the O-ring which may cause the O-ring to stretch resulting in excess O-ring, which will have no place to go.

Warning: Use only recommended Aquatica O-ring lubricant (# 19213) on the Aquatica Housing (and use the recommended O-ring lubricant of your strobe manufacturer on their components O-rings), Petroleum based lubricant used by some manufacturers for their Silicone based O-rings can and will swell the material of our O-rings, this will render the O-ring very difficult to install and more likely will end up being damaged or pinched resulting in dire consequences

Internal O-rings on the housing controls are not user accessible, while these O-rings are not as susceptible to damage as they are not exposed, rinsing properly with fresh water to flush out salt crystals and sand residues will be the proper way to assure trouble free operation. It is recommended by Aquatica to have the housing serviced on a yearly basis. Aquatica has authorized service facility in both continental USA and Europe for this annual maintenance. Before sending any items, always contact us or the service center closest to you (these are listed on our website www.aquatica.ca).

The internal moisture alarm for your AQUATICA Digital housing (Product # 20023) is powered by an easily replaced CR 2032 battery. Special attention should be paid to the battery contact position when inserting the battery in (see photo at right). When not using the housing for extended period of time, it is recommended to remove the battery from its compartment.

Please read the instruction sheet provided with your moisture alarm prior to installing the battery.



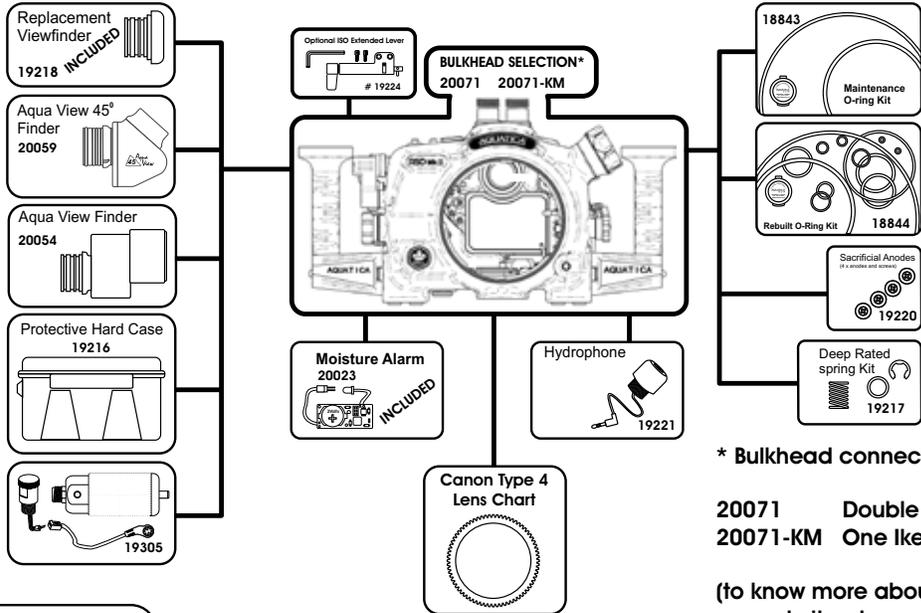
Aquatica A5D Mk III

For Canon 5D Mk III

AQUATICA™

Digital

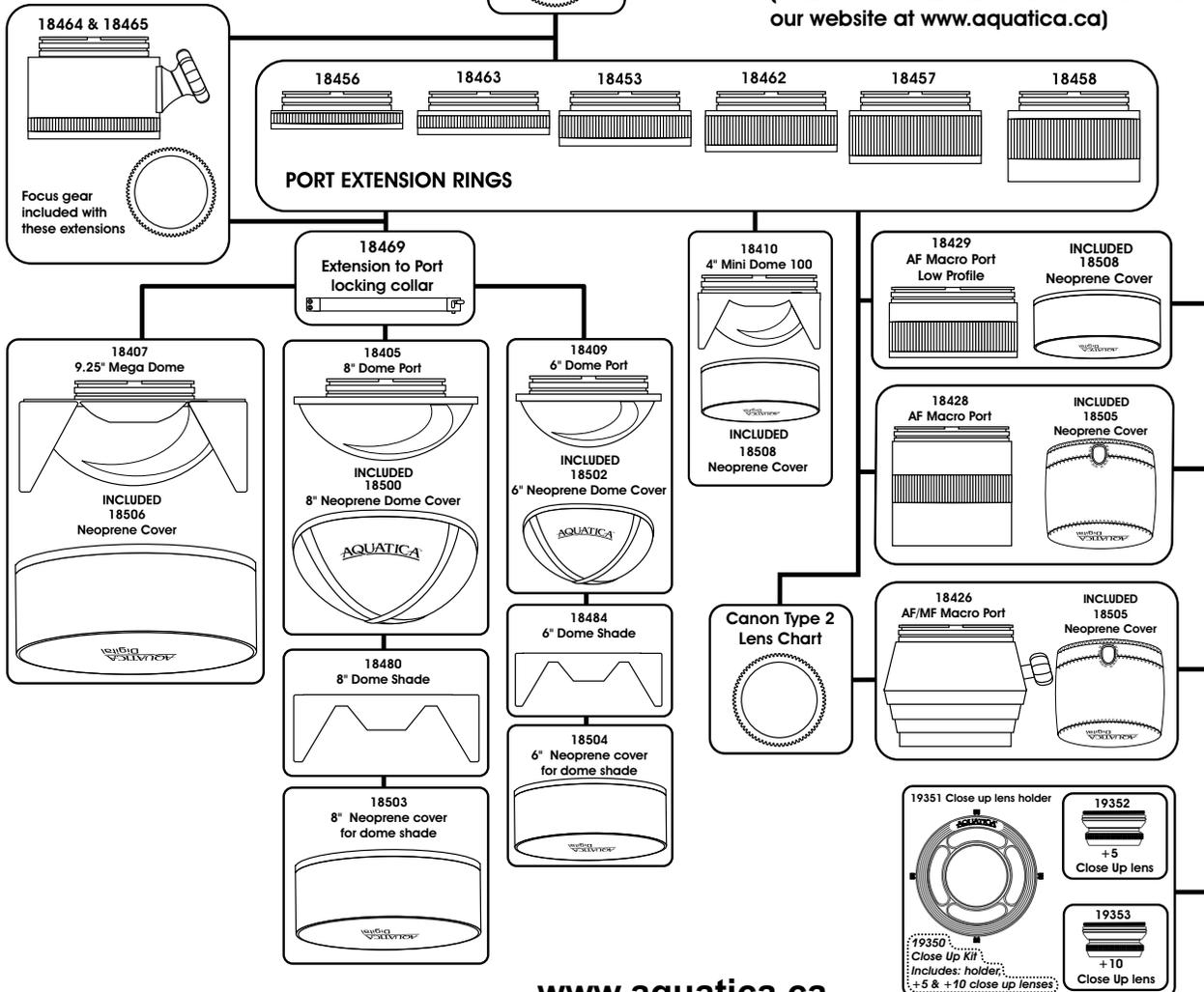
System Chart

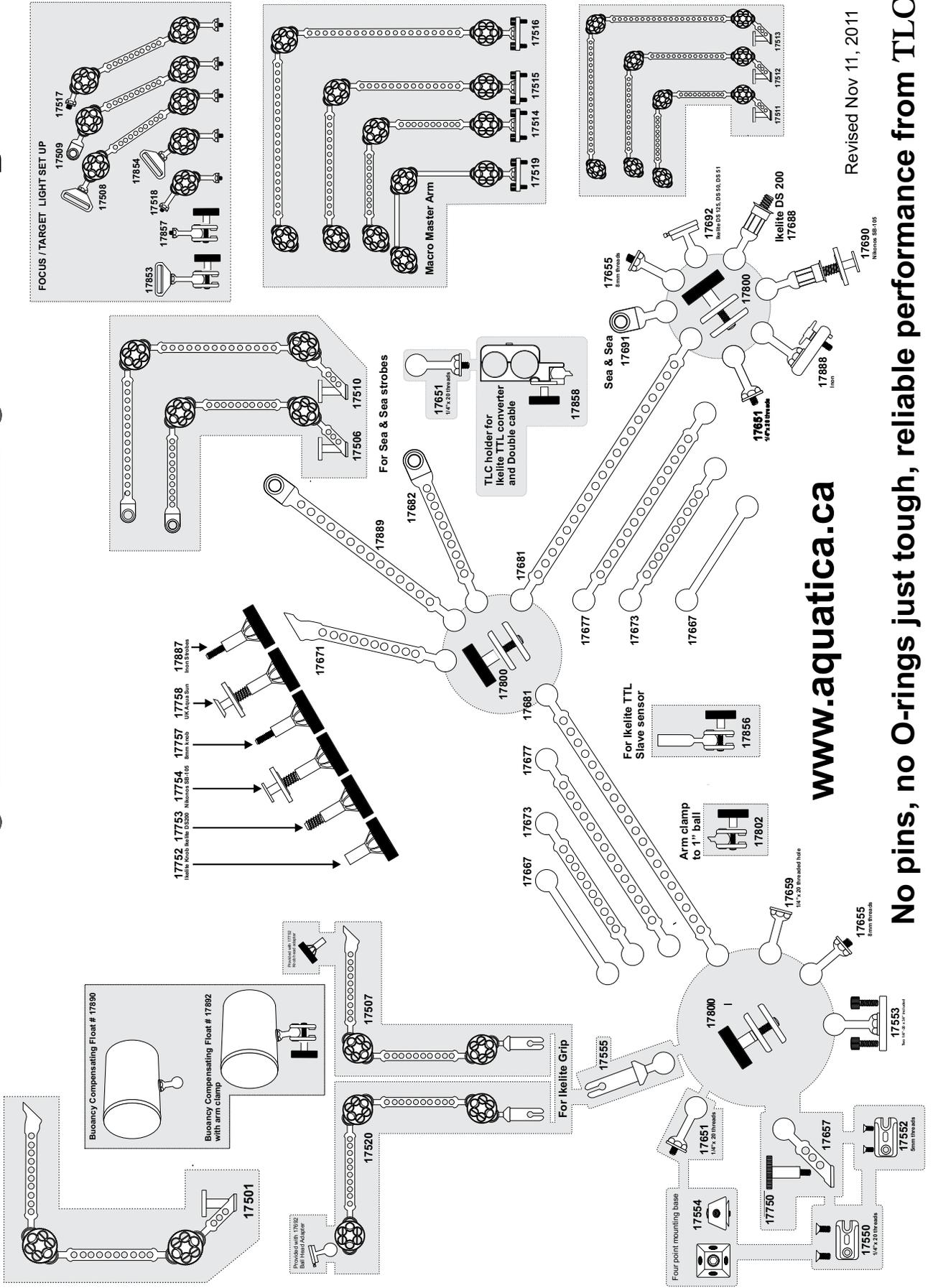


* Bulkhead connections

20071 Double Nikonos connectors
20071-KM One Ikelite 2 pins connector

(to know more about connectors refer to our website at www.aquatica.ca)





Revised Nov 11, 2011

www.aquatica.ca

No pins, no O-rings just tough, reliable performance from TLC

AQUATICA™

Digital

WARRANTY

PLEASE READ CAREFULLY

One year Limited Warranty.

Thank you for purchasing an AQUATICA manufactured product! Your AQUATICA housing is handcrafted by a small group of specially trained individuals - each of whom takes the most pride and satisfaction in offering you the best underwater camera housings in the world. All AQUATICA products are guaranteed against defects in material or workmanship for (1) one full year from the date of purchase for consumer use. these same products when used commercially will carry a 90-day warranty. No statutory warranty applies. Camera housed in AQUATICA housings are not covered under this warranty and ANY WATER DAMAGE SUSTAINED DUE TO INSTALLATION ERROR OR ANY OTHER REASON IS NOT THE RESPONSABILITY OF AQUATICA. Therefore the appropriate insurance should be maintained by the user.

Warranty does not apply to replaceable seals or damages to impacts or abrasive surfaces. Warranty applies only to products purchased from authorized AQUATICA dealers and does not extend beyond the original retail purchaser. Unauthorized modifications or repairs will automatically void this warranty. this applies to removal of serial numbers and AQUATICA identification labels.

To obtain service during or after the warranty period you must notify AQUATICA at 514-737-9481 and ship BY REGISTERED MAIL (INSURED) **ONLY**, enclosing your proof of purchase to:

AQUATICA
3025 De Baene
Montreal (Quebec)
H4S 1K8

Mark clearly on your package "Canadian goods returned for repair"

Do not ship by any other means.
Unauthorized packages will be refused.

YOUR SERIAL NUMBER _____

