



dekkO

pool lighting system

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THIN WALL INSTALLATION INSTRUCTIONS

THESE INSTRUCTIONS ARE TO BE USED IN CONJUNCTION WITH
THE OWNER'S MANUAL & INSTALLATION INSTRUCTIONS.

IMPORTANT SAFETY INSTRUCTIONS.

READ & FOLLOW ALL INSTRUCTIONS.

SAVE THESE INSTRUCTIONS.

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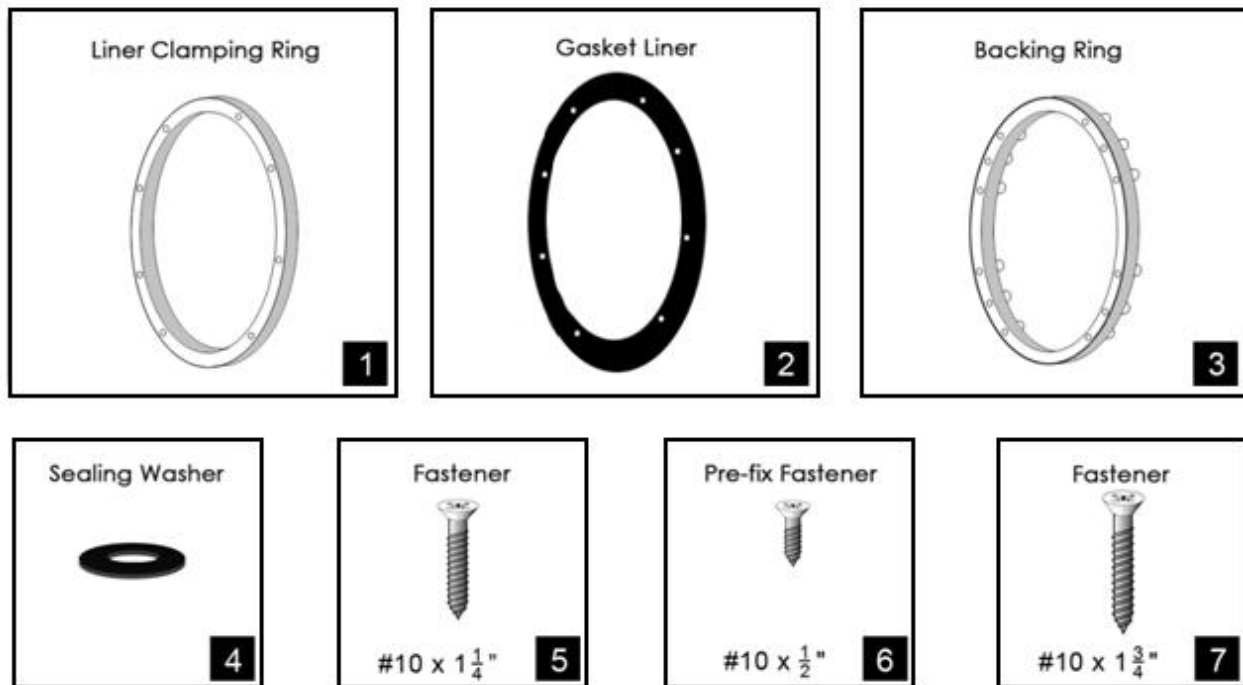
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Part No: 60-000097 rev 07/11

Section 1 – Contents of package

Item No.	Item	Quantity	Replacement Kit Part No
1	Liner Clamping Ring	1	15-000012
2	Gasket liner	2	10-000013
3	Backing Ring	1	15-000019
4	Sealing washers	12	10-000018
5	Fastener - #10 x 1 1/4"	8	50-000011
6	Pre-fix Fastener - #10 x 1/2"	4	50-000067
7	Fastener - #10 x 1 3/4"	8	50-000085

Contents of Package



INFORMATION

The standard light unit is designed to be used only in hard surface concrete pools.

This adapter kit is for thin walled or liner pools (with concrete, reinforced plastic, metal fiber-glass or acrylic/fiber-glass pool wall systems)

IMPORTANT

NOTE: For liner pools – the backing ring **MUST** be fitted with the sealing washers in position prior to fitting the liner.

It is important when fitting the backing ring that **ALL** the holes are lined up correctly before fixing with the (4) pre-fix screws provided.

IMPORTANT

Never re-use liner clamping ring or gaskets **ALWAYS** replace with genuine replacement parts.

IMPORTANT

The NEC requires that fixtures be installed so that the top of the fixture is a minimum of 4" below the normal water level.

IMPORTANT

Except when the luminaire is installed in an area of the swimming pool that is not used for swimming and the lens is adequately guarded to keep any person from contacting it, the luminaire shall be installed in or on a wall of the pool, with the top of the lens opening not less than 4" below the normal water level of the pool.

IMPORTANT

If the light fixture is fitted at a reduced depth between 4" – 24" the deck box must be positioned to achieve a smooth 12" radius (see illustration #1).

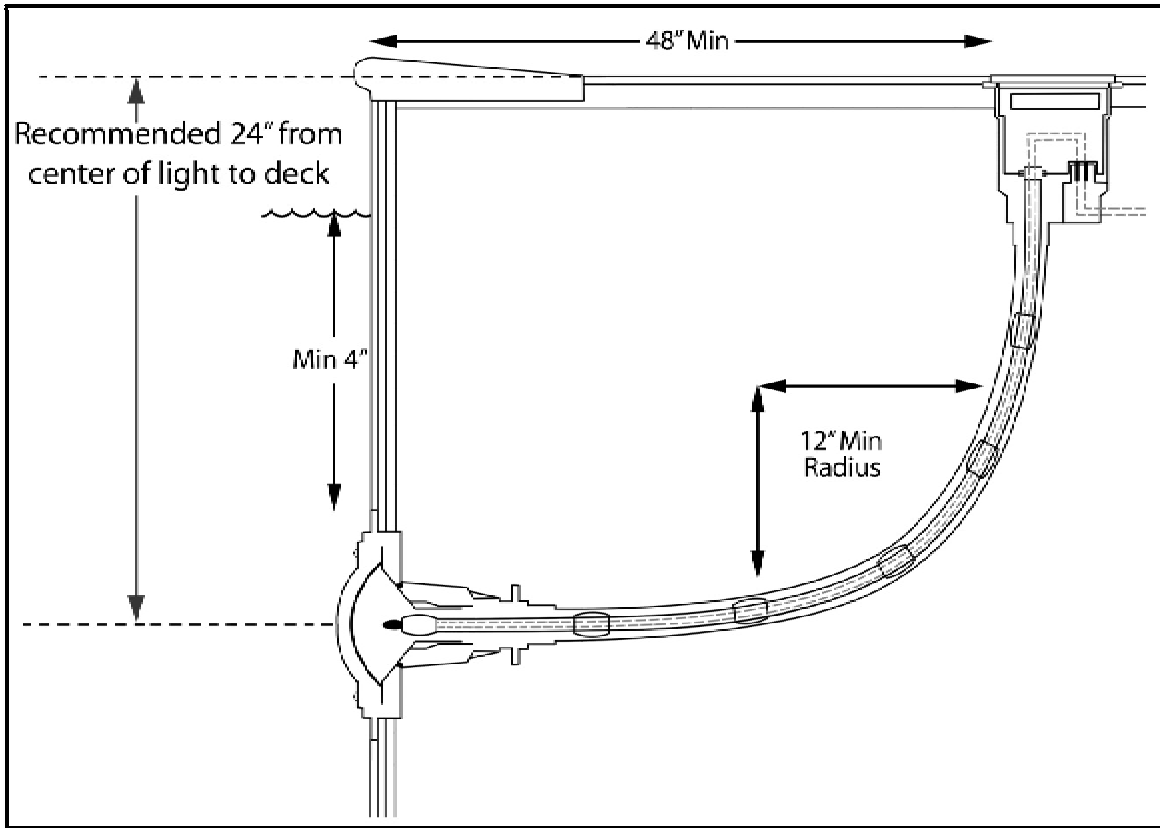


Illustration #1

In order to ensure smooth operation, we recommend that the light unit should be located 24" below the standard deck level.

Note: If the distance required from the edge of the pool to the deck box is greater than 48" or if the light fixture is to be fitted lower than 24" below the deck level then please contact your dekho light distributor regarding our custom-made service.

Section 2 - Reinforced plastic/Fiberglass Pools

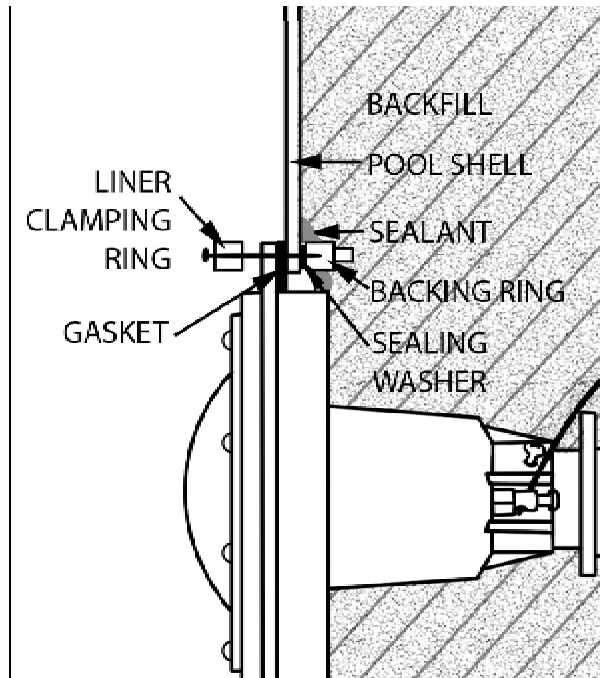


Illustration #2

Fiberglass/shell pools only

- (3) Lengths of fasteners are provided to accommodate most wall applications. (1/2", 1 1/4" and 1 3/4")
1. Determine the position of the light on the pool wall using the NEC requirements as stated above. (See illustration #1).
 2. Mark the hole profile at the correct position/orientation on the pool wall (see hole profile template - illustration #9).
 3. Double check the hole profile then cut or drill out the wall panel.
 4. Position the (12) self adhesive sealing washers over each of the (12) holes of the backing ring. (See illustration #3).

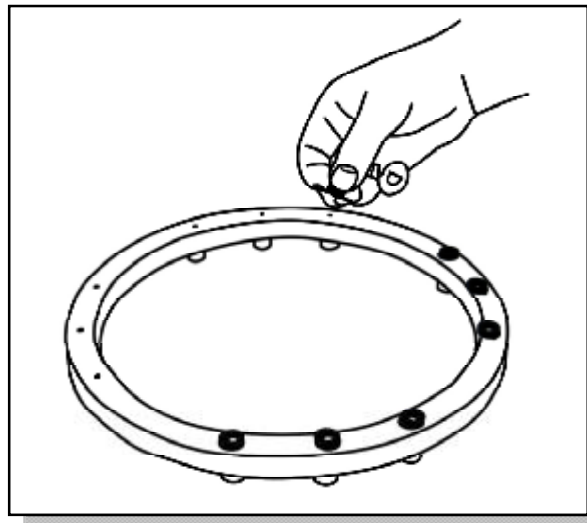


Illustration #3

5. Adhere the liner gasket to the rear face of the flange of the light body. Trim the gasket to the same diameter as the flange. (See cross section illustration #2).
6. Taking care to ensure that the light fitting is in the correct orientation i.e. the 'TOP' decal is uppermost.
7. Sandwich the pool wall panel between the light body assembly and the backing ring. Secure the light fitting and backing ring to the wall panel using the (4) pre-fix screws.
8. Now using the liner clamping ring, secure the light body assembly to the pool wall using the (8) fixing screws through to the backing ring. (see illustration #2).
9. It may be preferable to place additional sealant around the backing ring (see illustration #2)
10. Firmly attach the outer guide conduit assembly (see illustration #4). It may be preferable to attach the outer guide conduit assembly to the body when the body is fixed firmly into the wall.

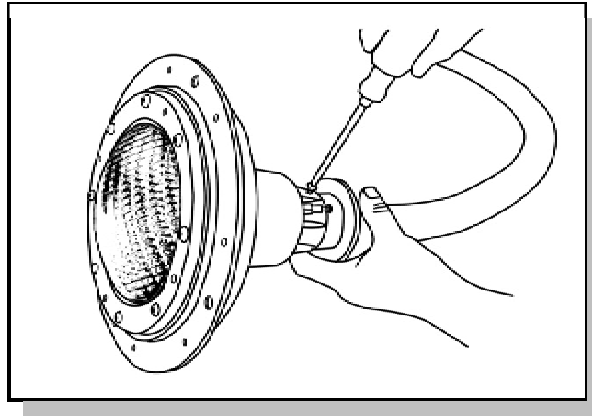


Illustration #4

11. Using standard, approved electrical practices connect the light assembly bonding terminal to the pool equipotential bonding grid. Per NEC Article 680.26 (C) and UL 676 clause 22.2.2 - Solid 8 AWG copper grounding wire MUST be used (Illustration #8).
12. The fascia and lens protective cover should now be fitted. (illustration #5 in main instruction manual).

Continue with Deck Box and electrical installation as per main instructions.

⚠ IMPORTANT

The fascia and lens protective cover MUST be fitted to complete correct installation.

Section 3 – Reinforced plastic, metal or wood panel pool with liner

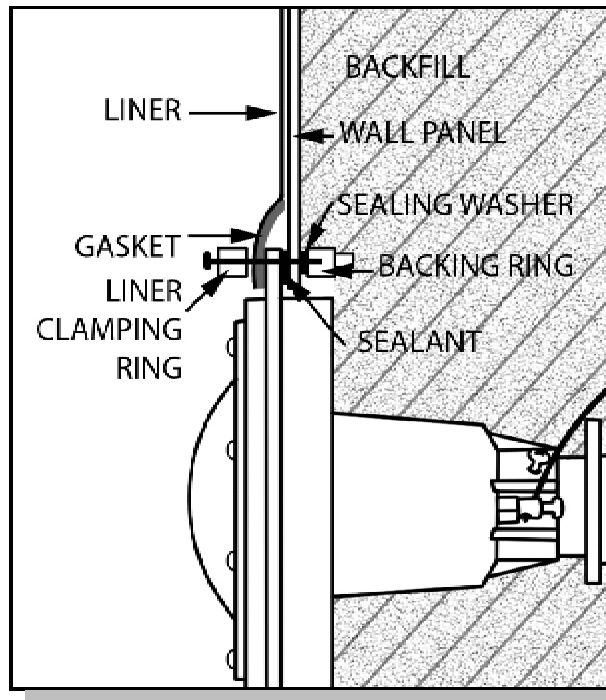


Illustration #5

Liner with panel only

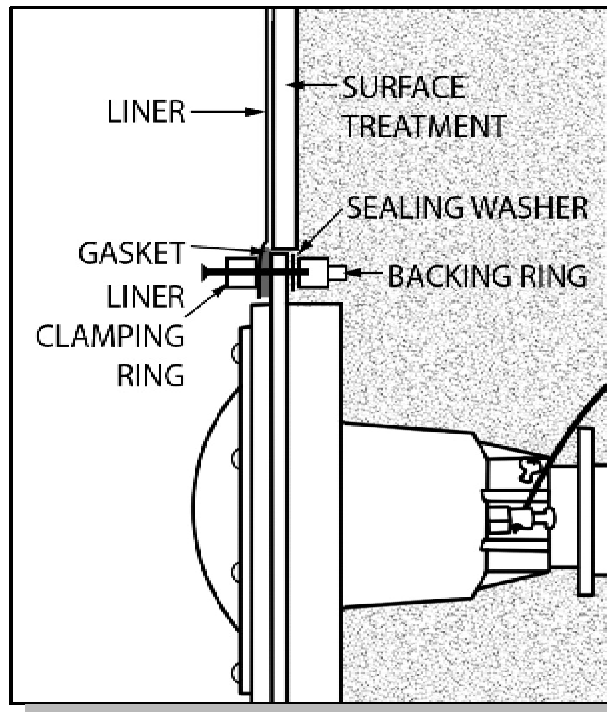
(3) Lengths of fasteners are provided to accommodate most wall applications.

1. Determine the position of the light on the pool wall using the NEC requirements as stated above. (See illustration #1).
2. Mark the hole profile at the correct position/orientation on the pool wall (see hole profile template - illustration #9).
3. Double check the hole profile then cut or drill out the wall panel.
4. Position the (12) self adhesive sealing washers over each of the (12) holes of the backing ring. (See illustration #3).
5. Place a band of sealant around the hole on the pool side of the hole in order to form a seal between the pool wall and the light fitting. (See cross section illustration #5).
6. Taking care to ensure that the light fitting is in the correct orientation i.e. the 'TOP' decal is uppermost.
7. Sandwich the pool wall panel between the light body assembly and the backing ring. Secure the light fitting and backing ring to the wall panel using the (4) pre-fix screws.
8. It may be preferable to use the liner clamping ring (without the attached gaskets) to temporarily stabilize the fitting prior to backfilling.

9. Firmly attach the outer guide conduit assembly (see illustration #4). It may be preferable to attach the outer guide conduit assembly to the body when the body is fixed firmly into the wall.
10. Using standard, approved electrical practices connect the light assembly bonding terminal to the pool equipotential bonding grid. Per NEC Article 680.26 (C) and UL 676 clause 22.2.2 - Solid 8 AWG copper grounding wire MUST be used (Illustration #8).

Continue with Deck Box and electrical installation as per main instructions.

Section 4 - Liner pools with Concrete Wall



Concrete-liner only

Illustration #6

1. Position the (12) self adhesive sealing washers over each of the (12) holes of the backing ring. (See illustration #3).
2. Using the (4) pre-fix screws, attach the backing ring to the body assembly through the counter-sunk holes. (Illustration #7).

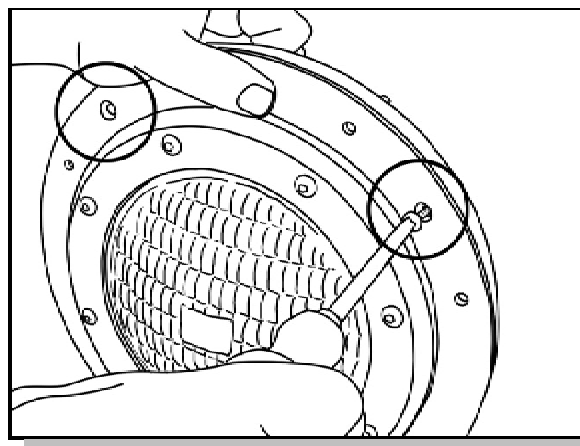


Illustration #7

3. Firmly attach the outer guide conduit assembly (see illustration #4).
4. Using standard, approved electrical practices connect the light assembly bonding terminal to the pool equipotential bonding grid. Per NEC Article 680.26 (C) and UL 676 clause 22.2.2 - Solid 8 AWG copper grounding wire MUST be used (Illustration #8).

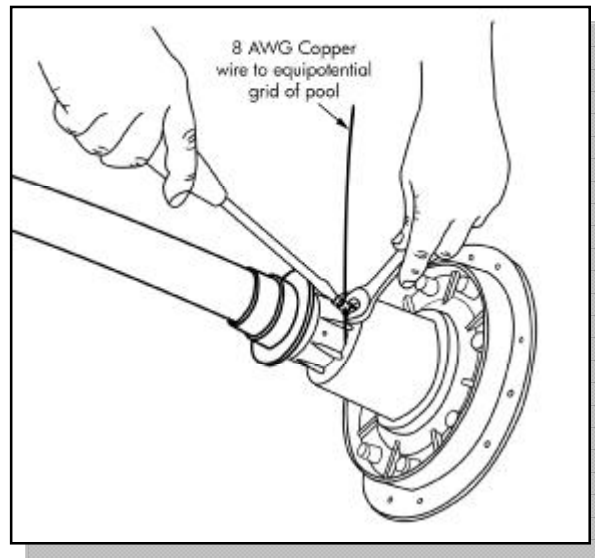


Illustration #8

5. The light body is now ready to be installed. Some preferred installation techniques include:
 - a. Build the light body assembly in to the wall during wall construction ensuring the front flange is parallel to the pool wall.
 - b. Create a hole in the pool wall either during or after construction, then cement the light in place at a later stage.

Note: When positioning the light body, ensure space is allocated for the finish surface
- Make sure the light marking 'Top' is in the 12 o'clock position.

⚠ IMPORTANT

Expanded foam MUST NOT be used to aid in the positioning of the light as it could cause the fixture to over-heat.

⚠ IMPORTANT

Make sure that the front of the fixture is kept clean of all construction material overspray and spillage etc. particularly around the water entry points as this may impact the cooling characteristics of the light and lead to premature failure.

Continue with Deck Box and electrical installation as per main instructions.

Section 5 - Fitting the liner

1. Make sure the flange face is clean and ready to accept the liner gasket and check the holes are clear.
2. Make a note of the flange hole configuration in order to assist while positioning the liner clamping ring prior to screw fixing.
3. Apply the liner gasket to the front face of the flange noting that it has a larger diameter than the flange face

IMPORTANT

DO NOT attempt to cut the liner and fit the liner clamping ring until the water level has fully stretched the liner.

4. Locate the position of the holes in the liner gasket (use illustration #10 if required).
5. Align the liner clamping ring with the holes of the liner gasket.
6. Using appropriate liner clamping screws, secure the liner clamping ring to the light, starting with the upper most holes and working your way round the light.
7. Progressively tighten the (8) liner clamping screws.

IMPORTANT

Make sure the liner clamping screws are the correct length in order to firmly clamp and seal the liner.

8. Carefully cut the liner material from the inside edge of the liner clamping ring.

IMPORTANT

Be careful not to strike the glass lens with any sharp blades.

IMPORTANT

The fascia and lens protective cover **MUST** be fitted to complete correct installation. (See illustration #5 in main installation manual)

Section 6 - Templates

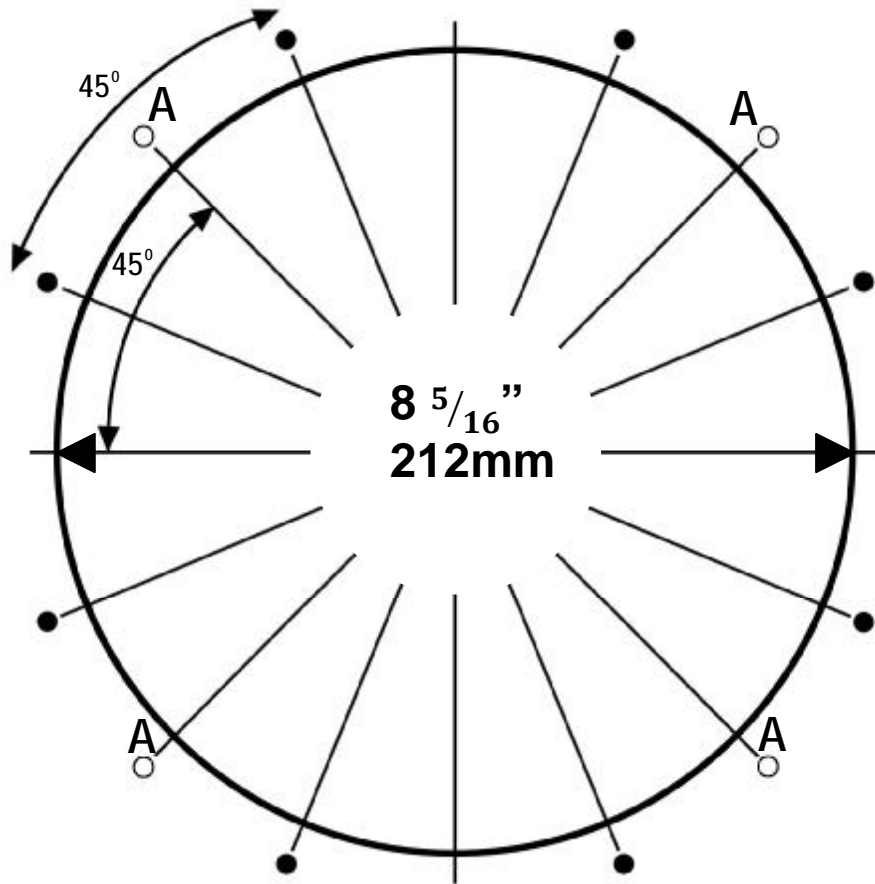


Illustration #9

NOT TO SCALE TEMPLATE showing panel hole profile.

All holes $\frac{7}{32}$ " (5.5mm) – P.C.D. $9 \frac{1}{4}$ " (235mm)

A-Pre-fix holes x4

SCALED TEMPLATE to help locate the hole position for the liner clamping screws.

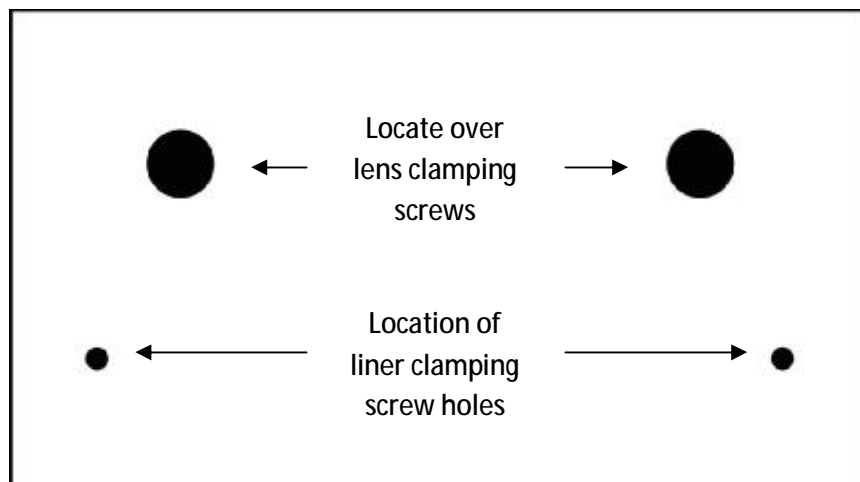


Illustration #10