Submersible Bilge Pump Model 30240-Series

DESIGN FEATURES

- ☐ Large Strainer Base To Protect Pump From Debris
- ☐ Exclusive Quadruple Lip Seal Protects Motor From Moisture
- ☐ Anti-Airlock Pump Design To Clear Water Traps In Discharge Hose
- ☐ Electrically Isolated Motor Shaft Prevents Stray Current Leakage
- ☐ Meets A.B.Y.C.* Requirements

* A.B.Y.C. – American Boat & Yacht Council establishes standards for uniform and safe boat and yacht construction.

INSTALLATION

For maximum water evacuation, the pump should be located in the lowest point of the bilge. Determine the best location and pump position for ease of plumbing and direct routing of discharge hose. Mark the location of the strainer base, and position of base release tabs. Depress base release tabs and separate the strainer base from the pump housing.

The strainer base may be attached to the bilge with either small stainless steel sheet metal screws (#8 x 1/4" - 3/8" are adequate) or a polysulfide based sealing compound.

Use screws only if you are positive bottom thickness is greater than the depth of penetration of the screw. When drilling holes it is advisable to wrap a piece of tape around the drill bit so the edge of the tape marks the maximum hole depth required. Position base and align release tabs with position previously marked and mark position of the four mounting screw holes in the base. Very carefully drill four holes where marked and secure base to bottom with stainless steel screws. Do not crack base by over tightening screws. Snap the pump housing onto the base ensuring it is properly seated and latched in position.

A quality polysulfide based sealing compound may be used as an adhesive to secure the strainer base in the bilge. Ensure the area marked for mounting pump is thoroughly clean and free of oil residue. Apply a liberal circular bead of sealant on bottom of strainer base and apply a liberal dab of sealant to each screw hole in base. Press the base onto the bottom in the position marked, ensuring the base locking tabs align with their respective marked position.

Allow the sealant to cure in accordance with the manufacturer's instructions (generally 8 to 24 hours) then snap the pump housing onto the base, ensuring it is properly seated and latched in position.

A Jabsco FS-20 Float Switch can be attached directly to the side of the bilge pump by means of the switch mounting clip included with the 1750 pump.

PLUMBING

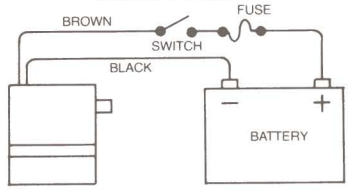
Submersible Bilge Pumps must be plumbed to a thru-hull fitting which remains above the waterline at all angles of heel or trim (sailboats generally discharge through or below the transom). If installing a new discharge hose, the pump will operate at its greatest capacity if bends are kept to a minimum and the overall length is as short as possible. The Jabsco 1750 Pump has an anti-airlock design so a dip or water trap in the hose will be cleared automatically when the pump starts. In fact, it may be desirable to include a water trap in the discharge hose to prevent exhaust fumes from blowing into the vessel through the bilge discharge thru-hull and hose. Attach the 1-1/8" hose to the pump port (and thru-hull fitting) with two stainless steel band clamps.

ELECTRICAL SPECIFICATIONS

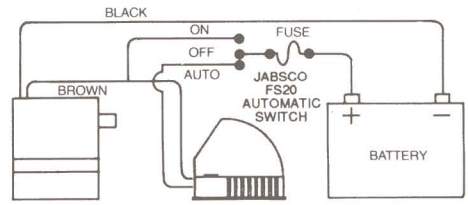
MODEL NUMBER	VOLTS	AMP DRAW	FUSE SIZE	WIRE GAUGE* 0'-20'	21'-40'	41'-60'	61'-100'
30240-1012	12	8	10	16	14	12	10
30240-1024	24	4	6	16	16	16	16
30240-1032	32	3	5	16	16	16	16

* Recommended wire size to allow no more than 10% drop in voltage. Length is the total length of the circuit measured from the power source to the pump and back to ground.

MANUAL OPERATION



MANUAL/AUTOMATIC OPERATION



ELECTRICAL WIRING

⚠WARNING

Fire hazard. Electrical circuits not protected with a proper size fuse or circuit breaker can cause a fire resulting in injury or death. Install a proper size fuse or circuit breaker in the positive lead as close to the power source as possible.

The Jabsco Submersible Pump may be wired for manual operation or for maximum security and versatility for both manual and automatic operation with the addition of a float switch. To ensure maximum performance, use a wire size large enough to carry the amperage required for the total length of the electrical circuit (see Electrical Specifications Chart). To comply with A.B.Y.C. Standards, the positive lead should be brown and negative lead black. They should be supported with non-metallic clamps every 18". When making wire connections use only mechanical locking connectors (crimp type or equivalent) and make all connections above the maximum bilge water level. Connections exposed to humid bilge environments may be sealed with silicone to prevent internal corrosion within the connector.

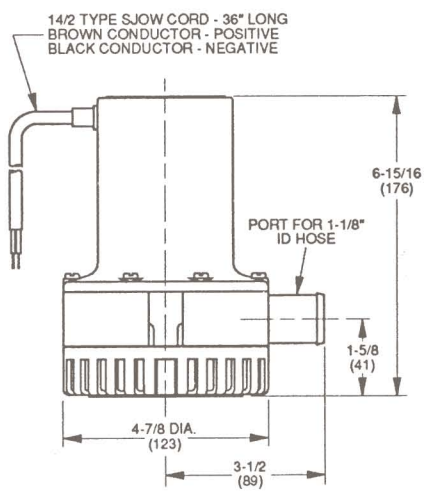
OPERATION

When installed in the lowest part of the bilge the Jabsco Submersible Pump will evacuate water down to a depth of 5/8". If wired for automatic operation, however, this depth may vary due to the shut off limit of the control switch.

The pump can run dry periodically without damage. However, for maximum seal life, the run dry periods should be kept to a minimum.

DIMENSIONS

INCHES – (mm)



MAINTENANCE

Jabsco Submersible Pumps require no periodic maintenance other than occasionally checking and possibly cleaning the pump strainer base. To do this, simply depress the base release tabs and lift pump assembly from strainer base. Inspect the strainer base and pump inlet port and remove any debris which is present. Realign pump assembly with base and push down until it snaps securely in place. When inspecting pump for debris it is advisable to check the hose connections to ensure they are tight.

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

TÜV CERT ISO 9001 QUALITY SYSTEM

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GB SUBMERSIBLE PUMPS INSTALLATION AND SAFETY ADVICE

D TAUCHPUMPEN EINBAU - UND SICHERHEITSHINWEISE

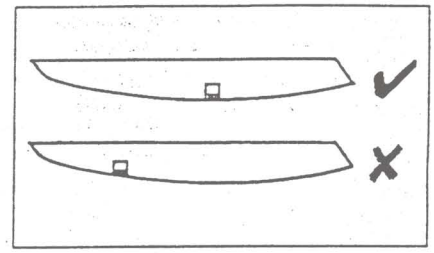
I POMPE SOMMERGIBILI INFORMAZIONI D'INSTALLAZIONE ED ANTINFORTUNI

E BOMBAS SUMERGIBLES INSTRUCCIONES DE INSTALACION Y MEDIDAS DE SEGURIDAD

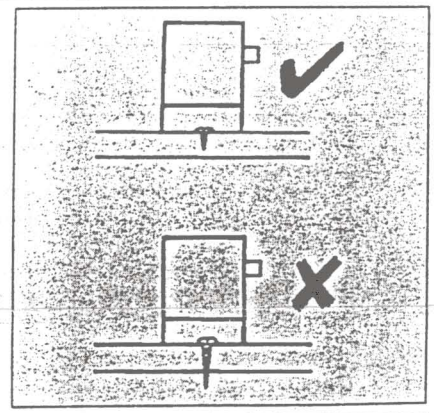
F POMPES IMMERGÉES NOTICE D'INSTALLATION ET DE SECURITE

S DRÄNKBARA PUMPAR INSTALLATION OCH SÄKERHET

1.
- Always install submersible bilge pumps in the lowest point in the bilge, where there is full access to the pump for maintenance.
- Tauchpumpen immer an der tiefsten Stelle der Bilge mit ausreichend Platz für die Wartung einbauen.
- Installare sempre le pompe sommergibili di sentina nel punto più basso della sentina, e dove si può accedere a tutte le parti della pompa per sottoporla a manutenzione.
- Siempre instalar las bombas sumergibles de carena en el punto más bajo de la carena, donde exista acceso total a la bomba para su mantenimiento.
- Toujours placer les pompes de cale au point le plus bas de la cale et à un endroit permettant d'accéder librement à la pompe pour son entretien.
- Installera alltid dränkbara länspumpar på den lägsta länsnivån där pumpen är fullt åtkomlig för underhåll.

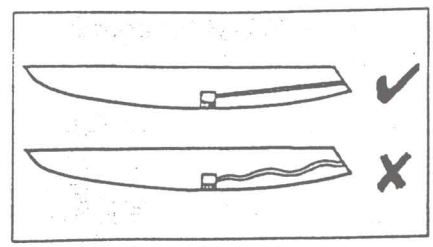


2.
- If fixing directly to the hull use a polysulphide based sealing compound. However, if using screws ensure the hull thickness is greater than the screw length.
- Bei Einbau direkt auf dem Rumpf ein öl- und lösungsmittelbeständiges Dichtmittel benutzen. Werden Schrauben verwendet, so ist darauf zu achten, daß sie nicht länger als die Rumpfstärke sind.
- Se si fissa la pompa direttamente sullo scafo, usare un composto d'ermetizzazione a base di polisolfuro. Tuttavia, se si usano viti, accertarsi che lo spessore dello scafo sia superiore alla lunghezza delle viti.
- Si se la instala directamente en el casco, usar un compuesto sellante a base de polisulfuro. No obstante, si se emplean tornillos, cerciorarse de que el espesor del casco sea superior a la longitud de los tornillos.
- Si la pompe est fixée directement sur la coque, utiliser un étanchéifiant à base de polysulfure. Si l'on utilise des vis, s'assurer que la longueur des vis est inférieure à l'épaisseur de la coque.
- Om pumpen monteras direkt på skrovet används tätningsmedel på polysulfidbas. Om skruvar används måste dock skrovets tjocklek vara större än skruvlängden.



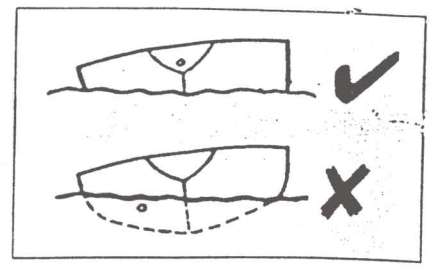
3.
- Always use marine grade spiral reinforced hose (with a smooth internal bore) of the correct size for the pump.
- Einen spiral-verstärkten Schmutzwasserschlauch (mit glatter Innenwandung) mit dem zur Pumpe passenden Innendurchmesser verwenden.
- Usare sempre un tubo rinforzato a spirale di tipo marino (con un'anima interna liscia) di dimensioni adatte alla pompa.
- Siempre usar mangueras reforzadas con espiral para uso marino (con diámetro interior liso) del tamaño correcto para la bomba.
- Utiliser toujours des flexibles à spirale renforcés de qualité marine (à paroi intérieure lisse) de diamètre approprié.
- Använd alltid spiralarmerad marinslang (med slät insida) i rätt storlek för pumpen.

4.
- Pipe runs should be kept as straight and as short as possible, avoiding rising and dipping over obstructions.
- Die verlegte Schlauchleitung sollte so kurz und so gerade wie möglich sein. Auf- und absteigende Verlegung über Hindernisse ist zu vermeiden.
- I tratti di tubo dovrebbero essere diritti e corti al massimo, evitando che salgano e scendano a causa di ostruzioni.
- Los tramos de tubería deben mantenerse tan cortos y rectos como sea posible, evitando subidas y bajadas para sortear obstrucciones.
- Les tuyaux doivent suivre un trajet aussi droit et court que possible, et éviter de passer au-dessus ou au-dessous des obstacles éventuels.
- Rörledningarna ska hållas så raka och korta som möjligt.



5.

- All bilge pumps discharging overboard must be installed with the overboard discharge well above both the static and heeled waterlines. (Sailboats normally discharge through the transom).
- Bei allen nach aussenbords entleerenden Bilgepumpen muß der Borddurchlass auch bei Krängung oberhalb der Wasserlinie liegen. (Bei Segelbooten normalerweise im Spiegel).
- Tutte le pompe di sentina che si scaricano fuori bordo devono essere installate con lo scarico in acqua ben al di sopra sia della linea di galleggiamento statica che inclinata. (Nelle barche a vela lo scarico avviene normalmente attraverso l'arcaccia).
- Todas las bombas de carena con descarga al agua deben instalarse con la descarga al mar bien por encima de la línea de flotación estática e inclinada. (Las embarcaciones a vela generalmente descargan a través del yugo).
- L'évacuation de toutes les pompes marines à rejet en mer doit être située bien audessus de la ligne de flottaison maximale (sur les voiliers, l'évacuation se fait habituellement à travers le tableau arrière).
- Alla länspumpar med utlopp överbord måste installeras med utloppet ett gott stycke ovanför vattenlinjen vid rakt flytläge eller krängning. (Segelbåtar har i regel utlopp genom akterspegeln).



6.

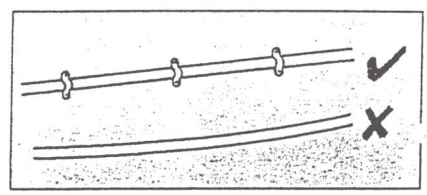
- Protect the electrical circuit with a correctly sized fuse or circuit breaker in the positive (+) lead as close as possible to the power source.
- In den Stromkreis der Plus-Leitung eine Sicherung mit entsprechendem Schmelzpunkt nahe an der Stromquelle einsetzen.
- Proteggere il circuito elettrico con un fusibile di potenza nominale adeguata o un interruttore automatico nel conduttore positivo (+) il più vicino possibile alla fonte di potenza.
- Proteger el circuito eléctrico con un fusible del valor adecuado o con un disyuntor en el cable positivo (+), lo más cerca posible de la fuente de energía.
- Protéger le circuit électrique par un fusible ou un disjoncteur de puissance nominale appropriée situé sur le câble positif (+) le plus près possible de la source d'alimentation.
- Skydda strömkretsen med en lämplig säkring eller kretsbrytare i den positiva (+) ledningen så nära strömkällan som möjligt.

7.

- Ensure sufficient voltage (not less than 95% of rated voltage) is available at the pump when it is running.
- Zum einwandfreien Betrieb ist eine ausreichende Stromspannung (nicht weniger als 95% der Nennspannung) erforderlich.
- Accertarsi che la pompa abbia a disposizione una tensione sufficiente (non meno del 95% della tensione nominale) quando é in funzione.
- Asegurar que se dispone de suficiente tensión (no menos del 95% de la tensión nominal) en la bomba durante su operación.
- Assurer la fourniture d'une tension suffisante à la pompe (minimum 95% de la tension nominale) lorsque celle-ci est en service.
- Se till att det finns tillräcklig spänning (minst 95% av märkspänningen) vid pumpen när den är i bruk.

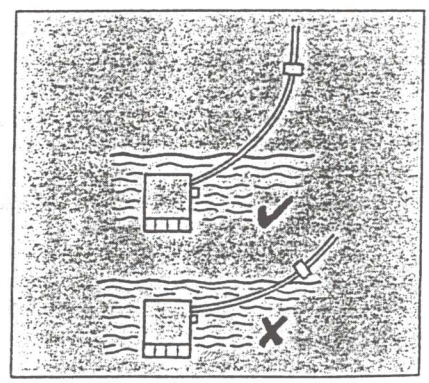
8.

- Clip all cable runs at regular intervals (45 cm, 18") to prevent abrasion.
- Die Kabel zur Vermeidung von Scheuerstellen in Abständen von 45 cm befestigen.
- Abbrancare tutti i tratti di cavo ad intervalli regolari (45 cm) per impedire abrasione.
- Colocar clips en los cables a intervalos regulares (45 cm) para prevenir abrasión.
- Fixer les câbles avec des colliers espacés de façon régulière (45 cm) pour empêcher toute abrasion.
- Kläm fast alla kablar med jämna avstånd (45 cm) så att de inte nöts.



9.

- All cable connections must be made above the maximum level of bilge water. Connections in humid environments can be sealed with sealant to prevent corrosion.
- Alle Kabelverbindungen müssen oberhalb des möglichen Höchstwasserstandes angeschlossen werden. Verbindungen in feuchter Umgebung müssen zur Vermeidung von Korrosion mit einem Dichtmittel abgedichtet werden.
- Eseguire tutti i collegamenti di cavo al di sopra del livello massimo dell'acqua di sentina. Per impedire la corrosione, si possono ermetizzare con materiale di tenuta i collegamenti eseguiti in ambienti umidi.
- Efectuar todas las conexiones de cables por encima del nivel máximo de agua de carena. Las conexiones en lugares húmedos deben estar aisladas para prevenir la corrosión.
- Tous les raccordements des câbles doivent être effectués au-dessus du niveau maximale de l'eau de cale. Les raccordements effectués dans un lieu humide peuvent être protégés avec un étanchéifiant pour empêcher toute corrosion.
- Alla kabelanslutningar måste göras ovanför den maximala länsvattennivån. Anslutningar i fuktig miljö kan förseglas för att förhindra korrosion.



10.

- Do not use submersible pumps for petrol, petroleum products, or fluids with a flash point below 37°C (98°F).
- Tauchpumpen dürfen nicht zur Förderung von Benzin, Petroleumprodukten oder Flüssigkeiten mit einem Flammpunkt unterhalb von 37°C eingesetzt werden.
- Non usare pompe sommergibili per benzina, prodotti di petrolio grezzo o fluidi con un punto d'infiammabiltà al di sotto dei 37°C.
- No utilizar bombas sumergibles para gasolina, derivados del petróleo, o fluidos con punto de inflamación superior a 37°C.
- Ne jamais utiliser les pompes immergées avec de l'essence ou des produits ou liquides dérivés du pétrole ayant un point d'éclair inférieur à 37°C.
- Använd inte dränkbara pumpar till bensin, petroleumprodukter eller vätskor med flampunkt under +37°C.

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