



T500 Recirc Livewell Aerator Kit, 4253 Installation Instructions

SAVE THESE INSTRUCTIONS
Form Number 69418 Rev. A

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FEATURES

The T500 Recirc Livewell Aerator Kit is recommended for fishing boats with built-in livewells that are not equipped with a thru-hull recirculation system. The pump is sealed and can occasionally be submerged; however, the electrical wires must never be submerged.

Kit Part No.	Pump Model	Flow Gal/Hr	Amp Fuse	DC Voltage	Outlet Hose I.D.
4253	T500	500	3	13.6	3/4" (19 mm)

WARNING

Failure to heed the following warnings could cause your boat to sink or result in explosions, fires, and serious personal injury:

DO NOT use aerator kit to remove gasoline, oil or other flammable liquids.

Always disconnect the power source when installing or servicing any electrical product. Remove vessel from water when using any 110/120 volt AC power tools.

Use the correct fuse amperage rating specified for your model pump. Test circuit breaker protection as installed. Failure to do so could result in serious personal injury or fire hazard.

Do not use bilge pump hose, or any other type of unreinforced hose that could leak, split, or puncture.

REQUIRED FOR INSTALLATION

- In-line fuse holder with 3-ampere fuse
- Waterproof wire butt-connectors for #16 AWG wire
- Drill with 1-1/16" (27 mm) or 1-1/8" (30 mm) hole saw
- Phillips head screwdriver
- Brown and black lengths of #16 AWG insulated wire
- Polyurethane marine sealant for pump mounting threads
- Dash-mounted two-way switch (Attwood Part No. 7615)
- Wrench for 1-1/4" and 1-1/2" nut
- 23" length of hose is provided; if longer length is needed, use 3/4" (19 mm) inner diameter, smooth bore, reinforced hose.

CHOOSE MOUNTING LOCATION FOR PUMP AND AERATOR HEAD FOR Shallow Tanks

For tanks with less than 8" (20 cm) water height between the aerator head and pump intake:

- Offset the mounting locations so the aerator head does not force air into the pump intake causing cavitation.
- For example, mount aerator head at the left side and the pump at right side of the tank. (Figure 1)

For Deeper Tanks

For tanks with more than 8" (20 cm) water height between the aerator head and pump intake:

- Mount the aerator head and pump intake on the centerline of the livewell.
- This centerline location ensures the most even distribution of water flow. (Figure 2)

INSTALL AERATOR PUMP

- Position aerator pump at least 2" (51 mm) from bottom of tank. Maintain enough clearance for mounting flange and retaining nut. (Figure 3)
- At chosen pump location, drill a hole of 1-1/16" (27 mm) minimum diameter, but no larger than 1-1/8" (28.6 mm) diameter, through tank.
- Apply a bead of marine sealant around mounting flange. Insert pump through mounting hole in tank. Install and tighten retaining nut finger-tight, then an additional 1/2 to 3/4 turn.
- Install and tighten stainless steel mesh strainer finger-tight.

INSTALL AERATOR SPRAY HEAD

- Position aerator spray head 2" (51 mm) down from top of tank. Maintain enough clearance for mounting flange and retaining nut. (Figure 3)
- At chosen aerator location, drill a hole of 1-1/16" (27 mm) minimum diameter, but no larger than 1-1/8" (28.6 mm) diameter, through tank.
- Apply a bead of marine sealant around mounting flange. Insert spray head through mounting hole in tank. Install and tighten retaining nut finger-tight, then an additional 1/2 to 3/4 turn with wrench.

INSTALL HOSE

- Install hose barbed fitting (Attwood Part No. 3899 or equivalent) on pump outlet. Tighten by hand, then an additional 1/4 to 1/2 turn with wrench. (Figure 3)
- Cut connecting hose (provided) to proper length. If longer hose is needed, use 3/4" (19 mm) inner diameter, smooth bore, reinforced hose.

- Attach one end of hose on pump outlet, other end on spray head inlet. Secure with provided hose clamps.
- Check fittings and system for leaks.

WIRING INSTRUCTIONS

Make all wire connections above any bilge water accumulation, using marine-grade waterproof wire connectors only.

NOTE: Failure to make waterproof connections and fuse pump properly will void the product warranty.

- Using insulated terminal connectors, connect positive lead (brown) to ON/OFF switch. Connect negative lead (black) to ground. (Figure 4)
- In a location easily accessible for changing fuses, splice fuse holder with 3-amp fuse into positive lead (brown). Fuse holder must be installed not more than 72" (1.83 m) from positive (+) battery terminal.
- To check system, feed water into the pump. If flow seems too low, make sure wires have been properly connected — brown to positive (switch), black to negative.

CARE AND MAINTENANCE

WARNING

Drain livewell tank before you service the aerator. Failure to do so could result in a large volume of water flooding your boat.

If Aerator is installed thru-hull, BOAT MUST BE OUT OF THE WATER to remove or replace motor cartridge. The pump, plumbing and connections may be below the water level. Removing the cartridge while the boat is in the water may result in flooding and sinking of your boat.

- Periodically check that the electrical connections are tight and waterproof.
- All plumbing, clamps, and hoses must be secure and protected from wear and damage.

To clean or remove existing motor cartridge

- Occasionally check pump to be certain debris is not restricting or jamming the impeller. Careful attention will provide peak performance.
- To remove or replace cartridge: Hold pump housing firmly. Depress motor cartridge tabs, then twist the cartridge counter-clockwise to remove. (Figure 5)

To insert motor cartridge

- The cartridges are color-coded to help you match cartridge size to the aerator pump. Replace the existing motor cartridge ONLY with the RED (Attwood Part No. 4620) motor cartridge. (Figure 5)
- Coat O-ring with vegetable oil to ease insertion.
- Insert cartridge into housing. Twist clockwise until you hear tabs snap up into slot.

WARNING

To avoid leaking or sinking, the aerator RED TAB MUST BE LOCKED AND VISIBLE through aerator housing slot.

ATTWOOD LIMITED WARRANTY

This Attwood Motor Cartridge carries a three (3) year warranty. See product catalog or www.attwoodmarine.com for details.

Figure 1 / Figura 1
Abbildung 1 / Figur 1

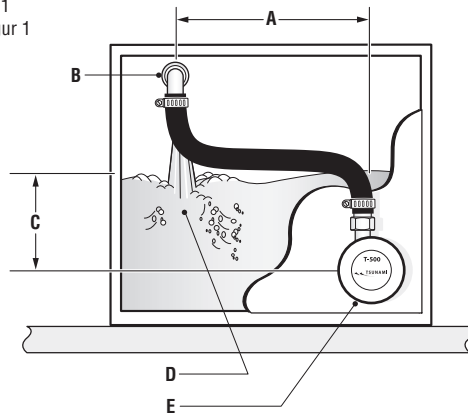


Figure 1
A. 10" Minimum Distance
B. Aerator Head
C. If Less Than 8" (20 cm)
D. Recirculated Water
E. Aerator Pump (Intake)

Figure 1
A. 25 cm (10 po) distance minimum
B. Tête de l'aérateur
C. Si moins de 20 cm (8 po)
D. Eau recirculée
E. Pompe d'aérateur (admission)

Figura 1
A. Distancia mínima de 25.4 cm
B. Cabezal del aireador
C. Si hay menos de 8" (20 cm)
D. Recirculación del agua
E. Bomba del aireador (entrada)

Figur 1
A. 10 tum min.avstånd
B. luftarhuvud
C. om mindre än 8 tum (20 cm)
D. cirkulationsvatten
E. luftarpump (inlopp)

Figure 2 / Figura 2
Abbildung 2 / Figur 2

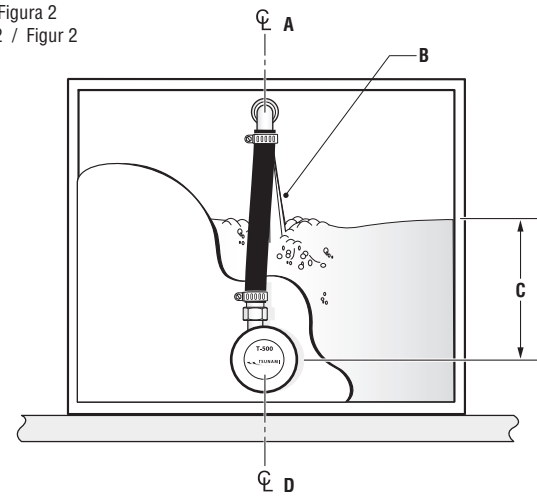


Figure 2
A. CL (Center Line) Aerator Head
B. Recirculated Water
C. 8" (20 cm) or More
D. CL (Center Line) Aerator Pump (Intake)

Figura 2
A. CL (línea central) Cabezal del aireador
B. Recirculación del agua
C. 8" (20 cm) o más
D. LC (línea central) Bomba del aireador (entrada)

Figure 2
A. centrumlinje luftarhuvud
B. cirkulationsvatten
C. 8 tum (20 cm) eller mer
D. centrumlinje luftarhuvud (inlopp)

Figure 2
A. Tête de l'aérateur
B. Eau recirculée
C. 20 cm (8 po) ou plus
D. Pompe d'aérateur (admission)

Abbildung 2
A. ML (Mittellinie) Belüftungskopf
B. Wieder aufbereitetes Wasser
C. 20 cm (8 Zoll) oder mehr
D. ML (Mittellinie) Belüftungspumpe (Einlass)

Figure 3 / Figura 3
Abbildung 3 / Figur 3

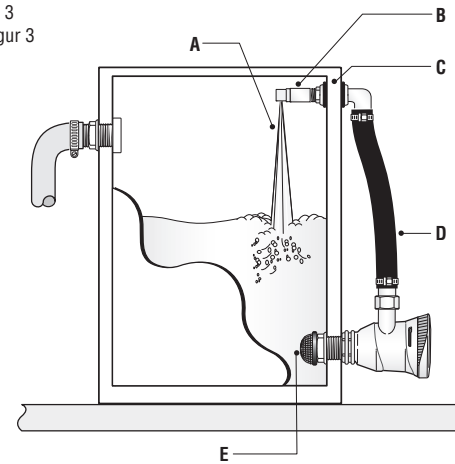


Figure 3
A. Recirculated Water
B. Aerator Head
C. Hole Diameter: 1-1/16" (27 mm) Min., 1-1/8" (28.6mm) Max.
D. 3/4" (19mm) ID Smooth-Bore Reinforced Hose
E. Aerator Pump (Intake)

Figura 3
A. Recirculación del agua
B. Cabezal del aireador
C. Diámetro del orificio: 1-1/16" (27 mm) min., 1-1/8" (28.6 mm) máx.
D. Manguera de interior liso reforzada de 3/4" (19 mm) de diámetro interno
E. Bomba del aireador (entrada)

Figur 3
A. cirkulationsvatten
B. luftarhuvud
C. håldiameter: min. 1-1/16 tum (27 mm), max. 1-1/8 tum (28.6 mm)
D. slät, armerad slang med 3/4-tums (19 mm) innerdiameter
E. luftarpump (inlopp)

Figure 3
A. Eau recirculée
B. Tête de l'aérateur
C. Diamètre du trou : 27 mm (1-1/16 po) min., 28.6 mm (1-1/8 po) max.
D. Boyau renforcé, à intérieur lisse, d'un diamètre int. de 19 mm (3/4 po)
E. Pompe d'aérateur (admission)

Abbildung 3
A. Wieder aufbereitetes Wasser
B. Belüftungskopf
C. Lochdurchmesser: 27 mm (1 1/16 Zoll) min., 28.6 mm (1 1/8 Zoll) max.
D. Verstärkter Schlauch mit glattem Innendurchgang, Innendurchmesser 19 mm (3/4 Zoll)
E. Belüftungspumpe (Einlass)

Figure 4 / Figura 4
Abbildung 4 / Figur 4

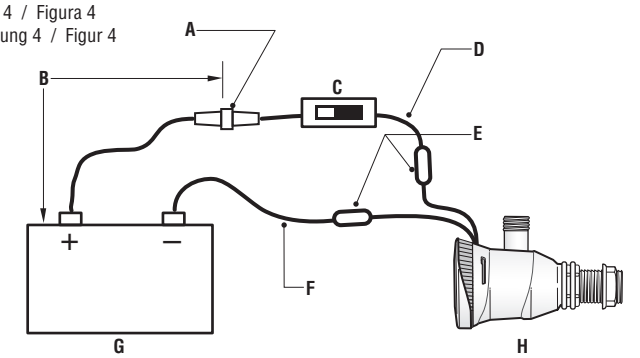


Figure 4
A. In-Line 3-amp Fuse
B. 72" (1.83m) Maximum
C. Switch
D. Brown Wire
E. Waterproof Connectors
F. Black Wire
G. 12 Volt Battery
H. Aerator Pump

Figura 4
A. Fusible de 3 amperios en línea
B. 72" (1.83 m) máx.
C. Interruptor
D. Cable marrón
E. Conectores a prueba de agua
F. Cable negro
G. Batería de 12 voltios
H. Bomba del aireador

Figur 4
A. 3 A inline-säkring
B. maximalt 72 tum (1,83 m)
C. brytare
D. brun tråd
E. vattentäta kontakter
F. svart tråd
G. 12-voltsbatteri
H. luftarpump

Figure 4
A. Fusible en ligne de 3 A
B. 1.83 m (72 po) max.
C. Interrupteur
D. Fil brun
E. Connecteurs étanches à l'eau
F. Fil noir
G. Batterie de 12 volts
H. Pompe d'aérateur

Abbildung 4
A. In die Leitung eingebaute Sicherung 3 A
B. 1,83 m (72 Zoll) Maximum
C. Schalter
D. Brauner Draht
E. Wasserfeste Verbindungen
F. Schwarzer Draht
G. 12 Volt Akkumulator
H. Belüftungspumpe

Figure 5 / Figura 5
Abbildung 5 / Figur 5

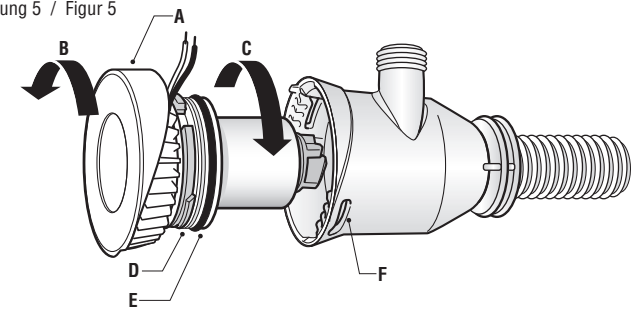


Figure 5
A. Motor Cartridge
B. Unlock
C. Lock
D. Red Tab
E. "O" Ring
F. Red Tab Must Be Extending Through Slot

Figura 5
A. Cartucho del motor
B. Destabar
C. Trabar
D. Lengüeta roja
E. Junta tórica
F. La lengüeta se debe poder ver a través de la ranura

Figur 5
A. motorpatron
B. lossa
C. lås
D. röd flik
E. o-ring
F. den röda fliken måste sticka ut genom spåret

Figure 5
A. Cartouche du moteur
B. Déverrouiller
C. Verrouiller
D. Patte rouge
E. Joint torique
F. La patte doit dépasser à travers de la fente

Abbildung 5
A. Motorgehäuse
B. Entriegeln
C. Verriegeln
D. Rote Lasche
E. O-Ring
F. Rote Lasche muss durch den Schlitz eingreifen

