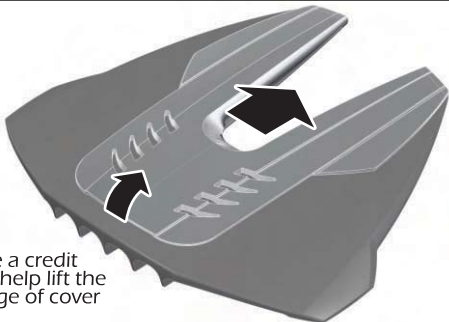


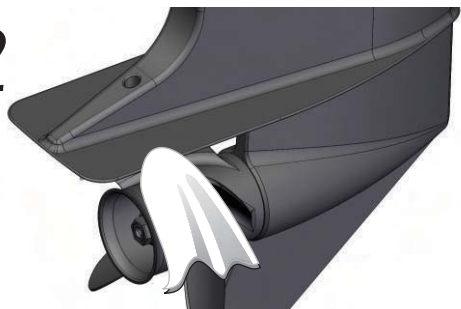
1



**Tip:** Use a credit card to help lift the rear edge of cover

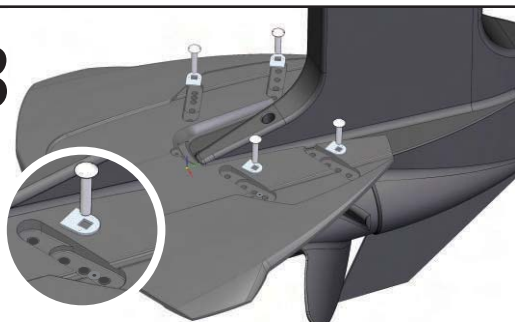
**Remove Trim Cover:** Gently lift rear edge and then move the cover forward to release

2



**Thoroughly clean** the cavitation plate, particularly the under side!

3



**Center the foil** and insert bolts & D washers in the **closest** holes to the cavitation plate

4



**Assemble Disk-Grips, 1" & 5/8" washers and nuts** loosely hand tightened

5



**Tighten lock nuts slowly** with a 7/16" socket wrench using an alternating torque pattern

6



**Place cover** slightly forward, press down and slide back to lock in place & install screw

### Drill-Free™ Installation:

The SE Sport 400™ comes with all the hardware you need. (Four Disk-Grips™, bolts, washers and lock nuts.) \*Most installations will only require a 7/16" open end, or socket wrench and Phillips driver.

**Remove the top Trim Cover** before assembly, by gently lifting the cover rear edge slightly to release the snap-lock below, and slide the cover forward.

**Clean the cavitation plate** of all oily residue, particularly the under side! You may need to use rubbing alcohol to thoroughly clean the surface.

**Drill-Free™ Disk assembly:** Set the SE Sport 400™ on the cavitation plate and select the hole pattern **closest** to the size of your cavitation plate. Place the D shaped washers in the foil top channels over the selected holes, and insert carriage bolts in these four positions (Long bolts rear & short forward) (Direction of D washer tail is optional).

**Place the Disk-Grips™** on the bottom side, and place the 1" washers in the disk bottom recesses along with the 5/8" washer outside, and hand install all the lock nuts loosely. Check to make sure the disks are aligned with the short step against the bottom of the cavitation plate, and the raised center edge aligned front to back. Gently slide the unit into the final desired mounting position, making sure all rubber grips remain in place.

**Tighten the lock nuts** with a socket wrench **slowly** to prevent thread galling. Use an alternating torque pattern until the rubber on the Disk-Grips™ squeeze out the edges of the Disk-Grips™. It is not unusual to see 1/8" or more compression outside of the Disk-Grips™ in some areas. (Once tightened, avoid loosening the lock nuts. Do not use a power socket).

**Install the Trim Cover:** Place the Trim Cover on top, 1/2 inch forward of the foil and slide rearward, while pressing firmly down on the center to engage the front and mid interlocks. Once lined up with the center screw hole, use a Phillips driver to hand tighten the screw until **snug**. (Do not over-tighten the screw)

**Final check for tightness:** Tug the Sport 400™ firmly from side to side. It should feel very solid with no movement. In all cases the bolts must fully engage the nylon insert area of the lock nut to be secure.

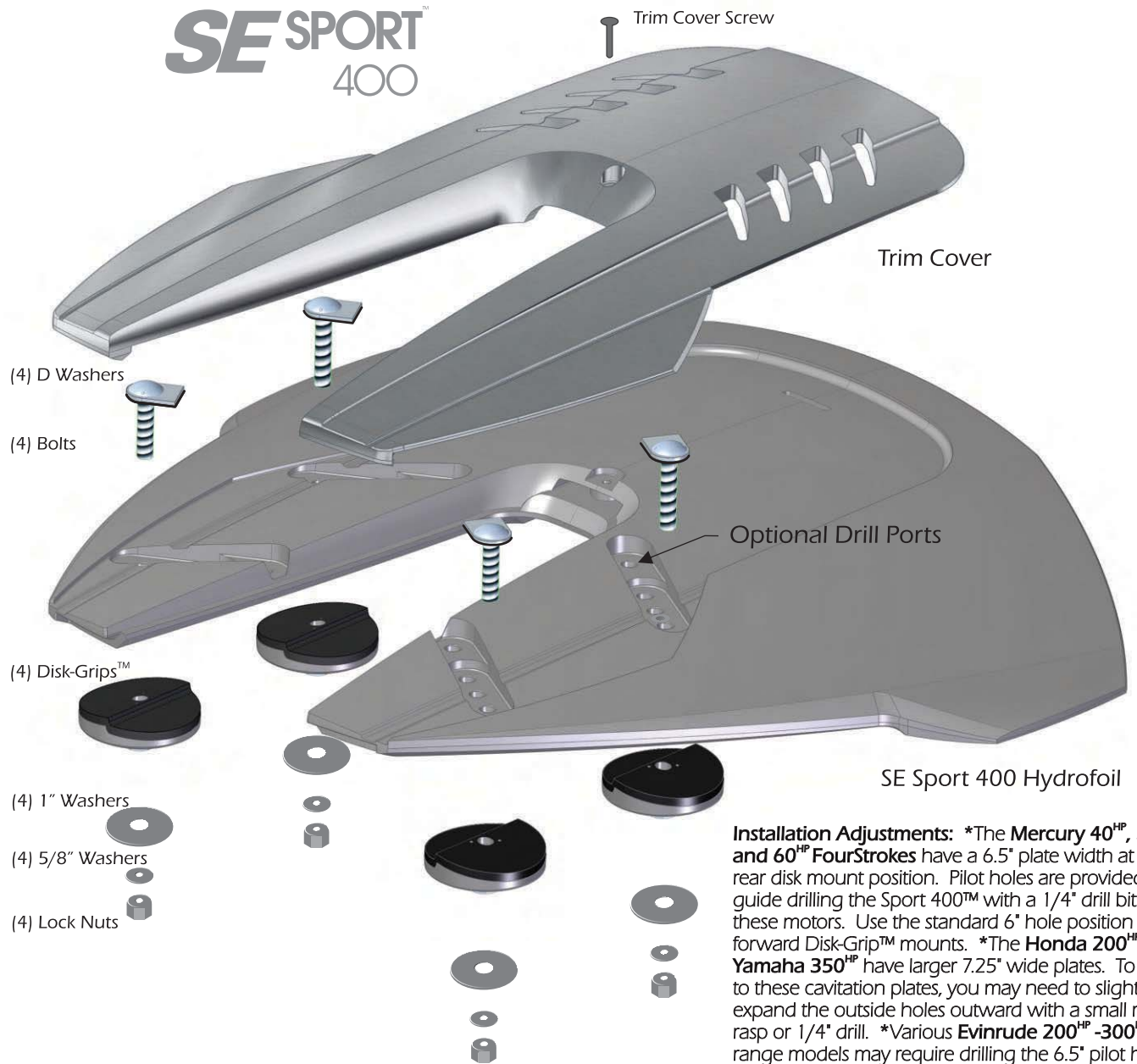
**Safety check:** We recommend a check of the hydrofoil tightness before and after your first day on the water. The engineered composite Disk-Grips™ are designed to withstand aggressive tightening. The lock nuts can usually be re-tensioned an additional half turn or more at this time, without removing the Trim Cover.

**Maintenance:** Check regularly for weathering of the rubber grips and Disk-Grip™ tightness. Re-tension if needed. See your dealer or email Sport Marine for replacement parts if needed.

**Installation Adjustments:** \*The **Mercury 40<sup>HP</sup>, 50<sup>HP</sup> and 60<sup>HP</sup> FourStrokes** have a 6.5" plate width at the rear disk mount position. Pilot holes are provided to guide drilling the Sport 400™ with a 1/4" drill bit to fit these motors. Use the standard 6" hole position for the forward Disk-Grip™ mounts. \*The **Honda 200<sup>HP</sup> and Yamaha 350<sup>HP</sup>** have larger 7.25" wide plates. To mount to these cavitation plates, you may need to slightly expand the outside holes outward with a small round rasp or 1/4" drill. \*Various **Evinrude 200<sup>HP</sup>-300<sup>HP</sup>** range models may require drilling the 6.5" pilot hole, and expanding the forward outside holes for the best fit. Measure for the closest hole pattern before installation.

**\*Conventional Drill Assembly:** If you prefer to drill your cavitation plate, set the Sport 400™ in the desired position, and mark the four inside holes with a center punch. Drill the four inside hole placements, using a 1/4" drill bit. Install using the same hardware without the Disk-Grips™.

# SE SPORT 400



Trim Cover

(4) D Washers

(4) Bolts

Optional Drill Ports

(4) Disk-Grips™

SE Sport 400 Hydrofoil

(4) 1" Washers

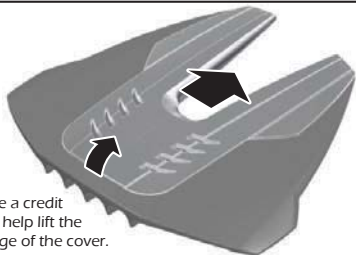
(4) 5/8" Washers

(4) Lock Nuts

**Installation Adjustments:** \*The Mercury 40<sup>HP</sup>, 50<sup>HP</sup> and 60<sup>HP</sup> FourStrokes have a 6.5" plate width at the rear disk mount position. Pilot holes are provided to guide drilling the Sport 400™ with a 1/4" drill bit to fit these motors. Use the standard 6" hole position for the forward Disk-Grip™ mounts. \*The Honda 200<sup>HP</sup> and Yamaha 350<sup>HP</sup> have larger 7.25" wide plates. To mount to these cavitation plates, you may need to slightly expand the outside holes outward with a small round rasp or 1/4" drill. \*Various Evinrude 200<sup>HP</sup> -300<sup>HP</sup> range models may require drilling the 6.5" pilot hole, and expanding the forward outside holes for the best fit. Measure for the closest hole pattern before installation.

**\*Conventional Drill Assembly:** If you prefer to drill your cavitation plate, set the Sport 400™ in the desired position, and mark the four inside holes with a center punch. Drill the four inside hole placements, using a 1/4" drill bit. Install using the same hardware without the Disk-Grips™.

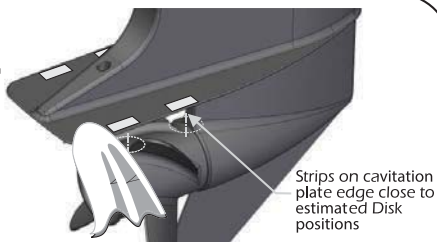
1



Tip: Use a credit card to help lift the rear edge of the cover.

**Remove Trim Cover:** Gently lift rear edge and then move the cover forward to release.

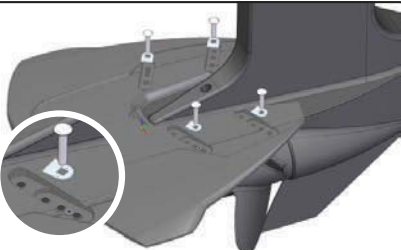
2



Strips on cavitation plate edge close to estimated Disk positions

**Thoroughly clean the cavitation plate. Place the adhesive strips on the top side as shown.**

3



**Center the foil** and insert bolts & D washers in the **closest** holes to the cavitation plate.

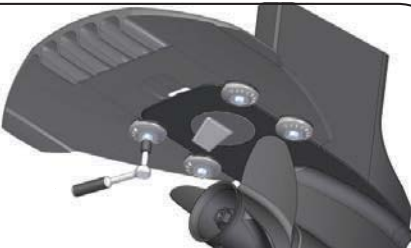
4



Tip: Rubber presses bottom of Cavitation Plate.

**Assemble Disk-Grips** with 2" rubber washers, 1" & 5/8" washers and nuts hand tightened.

5



**Tighten lock nuts slowly** with a 7/16" socket wrench using an alternating torque pattern.

6



**Place cover** slightly forward, press down and slide back to hold in place, & install screw.

## Drill-Free™ Installation:

The SE Sport 400™ comes with all the hardware you need. (Four Disk-Grips™, rubber washers, bolts, washers, adhesive strips, and lock nuts.) \*Most installations will only require a 7/16" open end or socket wrench, and a Phillips driver.

**Remove the top Trim Cover** by gently sliding the cover forward to release.

**Clean the cavitation plate** of all oily residue, **top and bottom!** You may need to use rubbing alcohol to thoroughly clean the surface. **Place adhesive strips on the top surface** of the cavitation plate near the outer edge, and close to estimated assembled disk location. **(Remove adhesive strip liners.)**

**Drill-Free™ Disk assembly:** Set the SE Sport 400™ on the cavitation plate and select the hole pattern **closest** to the size of your cavitation plate. Place the D-shaped washers in the foil top channels over the selected holes, and insert carriage bolts in these four positions. (Long bolts rear and short forward.) (Hole patterns for 5, 6, 6.5 and 7 inch wide plates with a 1/4" additional tolerance are marked on the foil.)

**Place the 2" rubber washer** on the Disk-Grips™, **under** the cavitation plate, and place the 1" steel washers on the Disk-Grip™ bottom, followed with the 5/8" washer and lock nut. Make sure the step in the Disk-Grip™ aligns with the outside edge of your cavitation plate. (The rubber washers will conform to the step when tightened.)

**Tighten the lock nuts** with a small socket wrench **slowly** to prevent thread galling. Use an alternating torque pattern until the rubber washer on the Disk-Grips™ is substantially compressed. You will feel the nut get harder to turn, and add another half to full turn and the grip will be accomplished. **You can break the bolt with continued tightening.** (Once tightened, avoid loosening the lock nuts. **Do not use a power socket.**)

**Install the Trim Cover:** Place the Trim Cover on top, 1/2 inch forward of the foil, and slide rearward while pressing firmly down on the center to engage the mid interlocks. Once lined up with the center screw hole, use a Phillips driver to hand tighten the screw until snug. **(Do not over-tighten the screw.)**

**Final check for tightness:** Tug the Sport 400™ firmly from side to side. It should feel very solid with no movement. In all cases, the bolts must fully engage the nylon insert area of the lock nut to be secure.

**Safety check:** We recommend a check of the hydrofoil tightness before and after your first day on the water. The engineered composite Disk-Grips™ are designed to withstand aggressive tightening. The lock nuts can usually be re-tensioned an additional quarter to half turn or more at this time, without removing the Trim Cover.

**Maintenance:** Check regularly for weathering of the rubber washers and Disk-Grip™ tightness. Re-tension only if needed. See your dealer or email Sport Marine for replacement parts if needed.

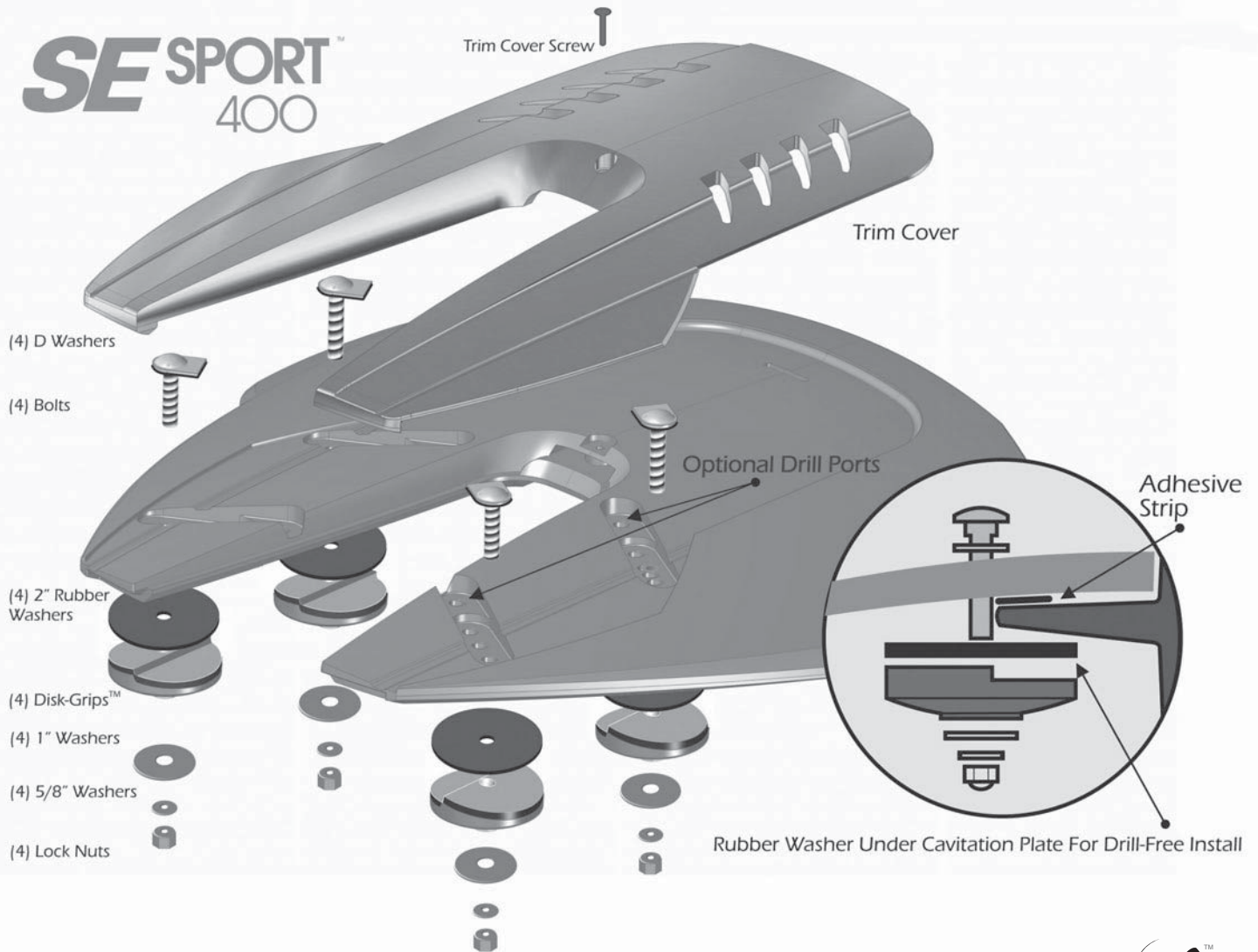
\* **(Note) Installation adjustments: Cavitation plates of 8" width** require SE Sport 400™ modification for Drill-Free™ installation.

\***The Mercury 40<sup>HP</sup>, 50<sup>HP</sup>, and 60<sup>HP</sup> FourStrokes** have a 6.5" plate width at the rear disk mount position. Pilot holes are provided to guide drilling the Sport 400™ with a 1/4" drill bit to fit these motors. Use the standard 6" hole position for the forward Disk-Grip™ mounts. \***The Honda 200<sup>HP</sup> and Yamaha 350<sup>HP</sup>** have larger 7.25" wide plates. To mount to these cavitation plates, you may need to slightly expand the outside holes outward with a small round rasp or 1/4" drill. \***Various Evinrude 200<sup>HP</sup> - 300<sup>HP</sup>** range models may require drilling the 6.5" pilot hole, and expanding the forward outside holes for the best fit. Measure for the closest hole pattern before installation.

\* **The SE Sport 400™ is not recommended for Volvos** with exhaust through the cavitation plate. The SE Sport 300™ is recommended.

\* **Conventional Drill Assembly:** If you prefer to drill your cavitation plate, set the Sport 400™ in the desired position and mark the four inside holes with a center punch. Drill the four inside hole placements using a 1/4" drill bit. Install using the same hardware without the Disk-Grips™ and rubber washers. (Or, optionally, choose to drill two holes and use two Disk-Grips™.)

# SE SPORT™ 400



**(Note)** The SE Sport 400™ is not recommended for Volvos with exhaust through the cavitation plate. The SE Sport 300™ is recommended.

## Installation Adjustments:

**Cavitation plates of 8" width** require SE Sport 400™ modification for Drill-Free™ installation.

\*The Mercury 40<sup>HP</sup>, 50<sup>HP</sup>, and 60<sup>HP</sup> FourStrokes have a 6.5" plate width at the rear disk mount position. Pilot holes are provided to guide drilling the Sport 400™ with a 1/4" drill bit to fit these motors. Use the standard 6" hole position for the forward Disk-Grip™ mounts. \*The Honda 200<sup>HP</sup> and Yamaha 350<sup>HP</sup> have larger 7.25" wide plates. To mount to these cavitation plates, you may need to slightly expand the outside holes outward with a small round rasp or 1/4" drill. \*Various Evinrude 200<sup>HP</sup> - 300<sup>HP</sup> range models may require drilling the 6.5" pilot hole, and expanding the forward outside holes for the best fit. Measure for the closest hole pattern before installation.

\***Conventional Drill Assembly:** If you prefer to drill your cavitation plate, set the Sport 400™ in the desired position and mark the four inside holes with a center punch. Drill the four inside hole placements using a 1/4" drill bit. Install using the same hardware without the Disk-Grips™ and rubber washers. (Or, optionally, choose to drill two holes and use two Disk-Grips™.)

**SE SPORT™ 400**   
HIGH PERFORMANCE HYDROFOIL

SPORT MARINE TECHNOLOGIES®



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