GEN 2 Wake Shaping Devices Installation
(Replacing GEN 1) for X2, X10, X25, X30, and X46

PARTS REQUIRED:
X46: Part #559964 (kit)
X2: Part #559960 (kit)
X10: Part #559962 (kit)
X30: Part #559963 (kit)
X25: Part #559961 (kit)

TOOLS REQUIRED:
Phillips #3 screwdriver or power driver
Scraper
Tools to patch fiberglass
Drill with 3/16” bit and 3/8” bit
Grease pencil

X46:

X2, X10, X30:

X25:
**PROCEDURE:**

These instructions were prepared in anticipation of removing the original GEN 1 surf tab, shown right.

**Removal of GEN 1 items:**

**Step 1:** Using screwdriver or power driver, remove the existing wake shaping devices on both sides.

**Step 2:** Using a scraper, gently remove any remaining sealant, avoiding scratches to the gel coat beneath.

**Step 3:** All models, except X2: Remove the actuators on both sides. (Actuator locations are moving on all models except the X2.

*(For X2, go to Step 9.)*

**Step 4:** All models, except X2: Remove both closeouts in the engine compartment to access the wiring.

**Step 5:** All models, except X2: Unplug the actuator tab from the wiring harness.

**Step 6:** All models, except X2: Cut the actuator wire and pull through the hull hole where the actuator mounted on the transom. Discard the tab on the connector side.
Step 7: All models, except X2: Gently scrape any remaining sealant, avoiding scratches to the gel coat beneath.

Step 8: All models, except X2: Patch the holes through the transom where the actuator had been located.

Preparation for installation of GEN 2 wake shaping device plates for all models except X10 & X25:
(For X 10 and X25, go to Step 11 for shim locations.)

Step 9: All models except X25: The GEN 2 plates align with the transom design, as had the GEN 1 plates. The GEN 2 plate first hole aligns with the first hole in the transom. Align the plate on each side with the natural bottom and bump-out of the transom. Mark the drill holes with a grease pencil.

Step 10: Using the 3/16” drill bit, drill through the marked hole locations.

Move to Step 15.

Preparation for installation of GEN 2 wake shaping device plates for X10 & X25:

Step 11: Because the new tabs are wider than the GEN 1, it will be necessary to install shims on both sides. The shims for either model have been machined to fit properly when aligned with the natural contours of the bottom and bump-out of the transom. (The
most-outboard hole on the transom is the second hole on the new GEN 2 plate on the X25 only.)

Step 12: Align and mark the shims with a grease pencil.

Step 13: Using the 3/16” drill bit, drill the holes to attach the shims.

Step 14: Using the 3/8” SS screws, attach the shims.

**Preparation for actuator reinstallment (all models except X2 & X25):**

No preparation required for the X2. For the X25, go to Step 20.

Step 15: For the X10 and X30, using the second hole from the outboard side of the plate as the starting point, measure up on the transom three inches (3”) from the center of the hole, and mark with grease pencil.

For the X46, using the third hole from the outboard side for the plate as the starting point, measure up on the transom three inches (3”) from the center of the hole, and mark with grease pencil.

Step 16: Using the 3/16” drill bit, drill a hole.

Step 17: Place the actuator on the transom with the hole at the lower outboard. Keeping the bottom of the actuator bracket parallel to the bottom of the transom, mark the other two holes for mounting.
Step 18: Set aside the actuator, and using the 3/16” drill bit, drill the additional holes, EXCEPT the center hole where the wiring will run. That hole should be drilled with the 3/8” drill bit.

Step 19: Repeat on the other side.

*For all models except X25, continue with Step 23.*

**Preparation for actuator reinstallation on X-25:**

Step 20: Using 1” masking tape, place on transom from platform across, aligning with lip.

Step 21: Measure from center of the platform bolt over three inches (3”). **Note that the bracket will be tilted off the line 1/8” on the outboard side to make it parallel with the hinge.** This means the outside hole will be an additional 1/8” above the bottom of the tape. Mark for the holes.
to drill. Also mark the outline of the actuator foot as you will need this to install shims.

Step 22: Using the 3/16” drill bit, drill all holes. Drill the center hole (for wiring) with the 3/8” drill bit.

For X-25, continue with Step 23.

Installing the Actuator:
Step 23: For X-2 only: Assuming the actuator was left attached to the transom, extend the actuator arm to fit without the long bracket just installed on the surf tab plate. Using #12 SS screws, attach the actuator.

Step 24: For X25 only: Using the pattern drawn with grease pencil on the transom, mount the #530120 actuator shims, using Bostik or other marine-grade sealant to hold in place. Screws will be added after the actuator is in place.

Step 25: For all models except X2: Apply Bostik or other marine-grade sealant to the back of the actuator foot.
Step 26: Mount on the transom (or shim for X25), threading the wiring through the hole in the transom. Install using #12 SS screws.
Installing Wiring:
Step 26: Attach the Deutch connector on the wiring that was run through the transom and into the closeout area.

Step 27: Connect the actuator harness, matching wires, to the main boat harness drop, from which the GEN 1 was connected.

Step 28: Seal the wire hole through the boat with Bostick or another marine-grade sealant.

Step 29: Attach the actuator to the transom bracket using the supplied hardware.
Connecting the Actuator (all models):

Step 30: For the X25, the LONG bracket will be used to attach the actuator to the surf tab plate.
For the other models, the SHORT bracket will be used.

Step 31: With the actuator fully extended, mark the location for the bracket to attach to the wake shaping device plate. Using 2-1/4X20X3/4 SS trusshead bolts and 2-1/4X20 Nylock nuts, attach the bracket but keep loose.

Step 32: Keeping the bracket loose, install the attachment pin through the bracket and actuator end, placing a black spacer on either side of the actuator. Slide the pin all the way through and center the actuator within the bracket.

Step 33: Adjust the bracket so that the actuator is centered between and tighten the bracket to the plate.
Updating the Program Software (all models):

Step 34: At the USB port on the armrest, load the software via thumb drive.

Step 35: Turn on the battery switch. (Do not need to turn the engine ON.)

Step 36: Press and hold the upper left button on the 4.3” or 7” screen.

NOTE: On DealerLink, see “Updating Software” instruction under Online Documentation, then arrow down to Select, press the button, and continue as directed to the FACTORY SETTINGS.

Step 37: After it is loaded, under MENU/FACTORY SETTINGS, select the box for GEN 2 enabled as “YES.” Select the boat model and all current options again, and then close out of the MENU screen.

Step 38: If the boat is equipped with installed surf bags, return on the “Ballast Timers” screen under USER SETTINGS page and adjust the timers on the port and starboard sides to previous tank and bag settings as the new software will reset the timers to default status, PWRS ONLY.
Raise Platforms:

For X30 and X46, use Steps 37 through 40; for X2 and X25 use Steps 41 through 43)

(X10)
Platform remains in same position. No additional adjustment is required.

(X30 and X46)
Step 39: Remove the platform.
Step 40: Remove the upper bracket.
Step 41: Install the new bracket provided with the GEN 2 kit. It will raise the platform two inches (2") above the previous location.
Step 42: Reinstall the platform on the transom.

(X2 and X25)
Step 43: Remove the platform.
Step 44: Install the provided spacers between the bracket and the bottom of the platform.
Step 45: Reinstall the platform. You will need longer screws because of the spacers. Use three inch (3") long SS screws.