

# SUPRA BOATS

## SWELL SURF GUIDE SET-UP

The power of the Supra Swell Surf System is definitely its versatility. Being able to create two distinct waves with 20 points of adjustment per wave, per side, is unmatched in other wake boat offerings. Along with this level of customization comes a number of different variables that determine optimum surf set-up. Achieving the best wave depends on the boat, the surfer's preferences and the water conditions. Make a point to experiment and encourage your customers to do the same to find the Swell sweet spot for them.

This system can impress beginners to pros with its waves, but be sure you have your Swell set-up dialed-in for the type of surfer you are trying to impress. First impressions are everything and if you don't take the time to set-up your Swell demo properly for a potential customer, you may not get another chance.

This guide is designed to give you a quick straight forward map to Swell set-up to create the best waves in optimum water conditions with an average amount of weight and passengers. This guide is based on settings the Supra Freaks and engineers have had the best results with during demos and testing. Part of the powerful versatility of the Swell Surf System is its ability to scale. The more weight and people you add, the better it gets, but there are also a few general items to keep in mind when setting-up Swell that we have listed below.

SC SWELL SETTINGS	BEST SKIM OFFSET		BEST BARREL OFFSET		BEST SKIM EQUAL		BEST BARREL EQUAL	
	PORT	STAR	PORT	STAR	PORT	STAR	PORT	STAR
Port Swell Blade	0	40	100	30	0	40	100	30
Star Swell Blade	15	0	30	100	15	0	30	100
SmartPlate	45	45	45	45	45	45	45	45
Front Ballast	60%	60%	60%	60%	60%	60%	50%	50%
Port Rear Ballast (750lbs flex bag)	100%	60%	100%	60%	100%	100%	100%	100%
Star Rear Ballast (750lbs flex bag)	60%	100%	60%	100%	100%	100%	100%	100%
Passengers	8	8	8	8	4	4	4	4
Speed	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
Prop	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235

Tables are divided into lists of wave settings for "OFFSET" weight and "EQUAL" weight. OFFSET: A boat weighted more heavily towards the surf side. EQUAL: A boat weighted equally from side to side.

SA SWELL SETTINGS	BEST SKIM OFFSET		BEST BARREL OFFSET		BEST SKIM EQUAL		BEST BARREL EQUAL	
	PORT	STAR	PORT	STAR	PORT	STAR	PORT	STAR
Port Swell Blade	0	30	100	30	0	30	100	30
Star Swell Blade	30	0	30	100	30	0	30	100
SmartPlate	45	45	45	45	45	45	45	45
Front Ballast	40%	40%	40%	40%	40%	40%	40%	40%
Port Rear Ballast (750lbs flex bag)	100%	60%	100%	60%	100%	100%	100%	100%
Star Rear Ballast (750lbs flex bag)	60%	100%	60%	100%	100%	100%	100%	100%
Passengers	8	8	8	8	4	4	4	4
Speed	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Prop	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235	Acme 1235

## OTHER ITEMS TO CONSIDER:

**Rear Flex Ballast Bags:** The SA and SC can be optioned with 400-pound rear Liquid Lead Flex Ballast sacks. Upgrading those sacks to the 750-pound custom bags from Fly High, (part number W892) will improve waves in both modes. With this additional weight the SA and SC are still well-within legal capacity ratings even with the max number of passengers stated on the capacity plate in the boats.

**Depth:** The depth of the water you are surfing in can have a big effect on the wave shape and size. Test the boat and the waves in the shallower areas you plan to surf before demoing with a customer.

**Current:** If the body of water you are surfing in has moving water or a current running through it, that could negatively effect the waves your are able to achieve. Test the boat and the waves in the area you plan to surf before demoing with a customer.

**Wind:** Unfortunately, there's not much we can do about the wind, but it does effect the look of the wave from the boat as well as the surfing characteristics of the wave behind the boat. Something to be aware of.

**Altitude:** The altitude of the body of water you are on doesn't necessarily effect the waves themselves, but can effect your ability to get on plane to surfing speeds. This is another instance where you need to test the boat you are surfing before you demo the customer to make sure the power, prop and weight distribution is conducive to getting the boat on plane.

**Wave Length:** Advanced to pro level surfers tend to be extremely particular about every aspect of the wave, especially the length. The Length of a Swell wave can be adjusted in several ways. 1) By increasing the surf speed you can elongate the wave; however, speeding up can also decrease size. 2) To increase length without decreasing wave mass you can add weight to the rear of the boat while taking the weight in the bow of the boat to 100%. 3) You can also increase the SmartPlate setting (plate down) to lengthen the wave.

**Off-setting Ballast:** To maximize the shape of the skim and barrel waves on either side behind the SA or SC you can add a small amount of weight or people on the surf side. You could accomplish this off-set weight set-up by eliminating 20-40% of the ballast weight opposite of the surf side or sit more people on the surf side or move additional weight to the surf side.

**Turning the Boat Away from Surfer:** You can often "shock" the wake into a clean peaky face by turning away from the surfer, then settling backing off to a slight turn away from the surfer. (some surf systems work best with a slight turn "into" the rider)

**Adding Weight Above Factory:** We do not condone adding weight to the SA or SC with Swell beyond legal capacity ratings. Both boats have been tested with more weight and the Swell Surf System continues to shape skim and barrel waves on the port and starboard sides in these instances.

**Front to Back Weight Ratio:** Something else to keep in mind as a general rule of thumb when weighting the SA or the SC to surf with Swell is the front to back weight ratio. Both boats like a lower percentage of weight in the bow of the boat versus the rear of the boat. These percentages and the overall ratio change a bit depending on the model and the type of wave [skim or barrel] you are trying to achieve.

- SC Skim Equal [equally weighted on port and starboard]: (bow/rear) 60/100 or 3/5
- SC Barrel Equal: (bow/rear) 50/100 or 1/2
- SA Skim Equal: (bow/rear) 40/100 or 2/5
- SA Barrel Equal: (bow/rear) 40/100 or 2/5

If you have questions or additional set-up information you come across during your use of the Swell Surf System, please contact Skier's Choice Customer Service.