

PerfectPass System Setting Chart for Version 6.5

These settings must be confirmed prior to running any IWSF sanctioned event.

SLALOM

Before the start of the Slalom event

Parameter	Decision to set	Effect
Crew Weight	Driver	Set before baseline RPM values are checked. RPM compensation for crew weight in boat. Reference: total weight of crew in pounds.
RPM @	Driver	Baseline RPM calibrated without a skier to produce near actual times for each speed required. Reference: timing pass at each speed.
WT	Chief Judge Chief Driver	Waiting time in seconds from exit gates to skier pull up for next pass. Ensures the same stopping time for each skier and each pass. Reference: as required at site.
SSB	Driver	Within normal range for the particular towboat from actual use or from setting chart. Reference: initial setting from chart.
SKIER FAC	Driver	Set at 100 if running in tournament mode. Use RPM offset.

During Slalom event

Place the system in **tournament mode** operation by pressing up and down keys together. Display will show RPM adjust value, skier weight and setting speed. Press up and down keys to return to normal mode.

Parameter	Decision to set	Effect
RPM Adjust	Driver	A plus or minus adjustment to compensate for head or tail wind, current and/or skier pulling strength to produce as near to actual times for segments in both directions as possible.
SSB	Driver	Used together with RPM Adjust to bring mid and end course times near actual, a larger SSB slows down the second segment time relative to the first segment time.
RPM OFFSET	Driver	If a boat requires less skier weight than actual to achieve a good time, enter an RPM value.

Skier Input for Slalom Event

Parameter	Decision to set	Effect
Weight	Skier Boat Judge Driver	Must be an accurate weight in pounds (lbs.) to compensate for skier's pull in course. Reference: skier weight in lbs.
PX	Skier Boat Judge Driver	An additional RPM percentage added when slalom switch operates. PX = 0 equal to no switch present. Reference: 0 to 40.
KX	Skier Boat Judge Driver	Adjusts the firmness of the pull, KX normal setting automatically selected by system based upon skier weight, adjustable where KX+ is firmer and KX- is softer. Reference: KX normal, KX +, KX- .

JUMP

Before Jump Event

Parameter	Decision to set	Effect
Crew Weight	Driver	Set before baseline RPM values are checked. Compensation for crew weight in boat. Reference: total weight of crew in pounds.
RPM@	Driver	Baseline RPM calibrated without a skier to produce near actual times for each speed required. Reference: timing pass at each speed.

During Jump Event

Parameter	Decision to set	Effect								
RPM Adjust	Driver	Adjust total boat RPM to compensate for each skier pull characteristic, wind and current. An increased RPM adjust speeds up boat times in both segments.								
S2%	Driver	Adjusts boat speed and times in second segment only. S2% is only effective when the jump switch is properly activated by skiers. Reference: initial setting from chart.								
S2 RTB	Driver	Same as S2% when "Retain to Baseline" is selected.								
S2Fine	Driver	A direct RPM adjustment for the second segment only. Is present for every pass. Normally used only when Fast Second Segment is NOT selected. Reference: 0 RPM.								
CT	Driver	Maximum allowed time during countercut that RPM is added while jump switch is closed. Adjust to release skier and prevent boat overspeed. References: <table style="margin-left: 20px;"> <tr> <td>normal</td> <td>190</td> </tr> <tr> <td>head wind</td> <td>210</td> </tr> <tr> <td>tail wind</td> <td>170</td> </tr> <tr> <td>skier _ cut</td> <td>160</td> </tr> </table>	normal	190	head wind	210	tail wind	170	skier _ cut	160
normal	190									
head wind	210									
tail wind	170									
skier _ cut	160									

Skier Input

Parameter	Decision to set	Effect
Jump Letter	Skier Boat Judge Driver	From Jump Letter Chart an official letter is produced, based upon skier weight and distance, the skier may accept this letter or select a letter three higher or lower. If the driver and Boat Judge conclude the letter is not correct and must be changed due to unacceptable speed, they must inform the skier of any change to the letter. Reference: Printed jump letter chart or system select from NEW JUMPER menu.

TRICK

Before Trick event

Parameter	Decision to set	Effect
Speedo Calibrate	Driver	Adjust boat speed to the required 34 seconds for total slalom course at 17 mph and 27.4 kpm or use hand held GPS reference.
Kd	Driver	Confirm setting at correct default value. Reference: Kd = 16

During Trick event

Skier Input

Parameter	Decision to set	Effect
Kd	Skier	Adjust boat firmness as required.

Metric Conversion Feature

Press menu and down keys for Metric converter to calculate required equivalent values:

kg<=>lb, m<=>ft, or kph <=>mph.