

# Speed Control Parameter Adjustment Chart

(Updated speed control parameters may be posted on the USA WS website, accompanied by a revision date, and will supersede the speed control parameters printed in the AWSA Rule Book. No changes shall be made between July 1 and the conclusion of Nationals)

## JUMP

Parameter	Who	When	Perfect Pass GPS	Zero Off GPS	Perfect Pass Classic
CREW WEIGHT	Driver/Judge	Before event	XX		Weight in lbs
SPEED	Skier	Before each pass	XX	Speed in MPH/KPH	Speed in MPH/KPH
JUMP LETTER	Driver/Judge - with input from skier	Before each jump	XX	Select SET from MENU Enter skier weight and rated distance. Skier may adjust initial setting +/- 4 letters. Adjust as necessary.	Select NEW JUMPER and input speed, skier weight and rated distance. Skier may adjust initial setting +/- 3 letters. Adjust as necessary
SKIER WEIGHT	Driver/Judge	Before each skier No adjustment between jumps	XX	Weight in lbs	Weight in lbs
JUMP DISTANCE	Driver/Judge - with input from skier	Before each skier Driver may adjust best jump or letter as necessary between jumps (notify skier of change) to obtain actual times	XX	Distance in feet (system selects initial letter) - Skier may adjust initial setting +/- 4 letters  Adjust letter as necessary	Distance in feet (system selects initial letter) - Skier may adjust initial setting +/- 3 letters  Adjust letter as necessary
RPM ADJUST	Driver	As needed	XX		Adjust for conditions
SECOND SEGMENT	Skier	Before each skier based on type of second segment pull requested	XX	Select letter for fast second segment  Select letter with "RTB" for return to baseline	S2% (suggested starting point): Fast second segment = Faster 40 to Faster 60 Return to Baseline = Zero (Option 2) S2 FINE - Fine RPM adjust for second segment - normally only used when RTB has been selected
CT	Driver	Before event  May be adjusted as necessary to control speed during counter cut w/head or tail wind	XX	Recommended: 180 Head Wind 190 Tail Wind 170 ¾ Cut 160	Recommended: 175 Head Wind 190 Tail Wind 170 ¾ Cut 160
X8u	Skier	The manufacturer's setting may be adjusted up or down within the range as published for that towboat. One additional adjustment may be made after the skier's 1 <sup>st</sup> jump only.	XX		Controls the rate of additional rpm added once the jump switch closes. With a higher number, it will take longer for the full additional rpm to be reached (softer at the start/stronger at the base).
X8d	Skier / Driver	The manufacturer's setting may be adjusted up or down within the range as published for that towboat. Before each skier	XX		Controls the timing of the rpm drop once the skier has unloaded the switch. With a higher number, the longer it will take for the boat to begin to slow.

# SLALOM

Parameter	Who	When	Perfect Pass GPS	Zero Off GPS	Perfect Pass Classic
OPERATING MODE	Driver/Judge	Before event	TOURNAMENT MODE ONLY	TOURNAMENT MODE ONLY	
CREW WEIGHT	Driver/Judge	Before event	Weight in lbs		Weight in lbs
SPEED	Skier	Before first pass	Speed in MPH/KPH	Speed in MPH/KPH	Speed in MPH/KPH
SKIER WEIGHT	Driver/Judge	Before each skier No adjustment between passes			Weight in lbs
KX	Skier – should be set to Normal unless skier asks for other setting	Before each skier and ONLY ONE additional adjustment between passes.			KX + & KX++ = firmer KX NORMAL = default KX - = softer
PX	Skier – should be set to zero unless skier asks for other setting	Before each skier No adjustment between passes			PX = 0 to 40  Zero eliminates the switch
A, B, C	Skier - should be set to B unless skier asks for other setting	Before each skier and ONLY ONE additional adjustment between passes.		A = More aggressive deceleration B = Normal (default) balanced accel/decel C = More aggressive acceleration	
RPM ADJUST	Driver	Adjust as necessary for conditions			Adjust for conditions
SSB	Driver	Adjust as necessary to balance speed between first and second segments of the course			Initial setting for each boat from chart - adjust as needed

## TRICKS

Parameter	Who	When	Perfect Pass GPS	Zero Off GPS	Perfect Pass Classic
Speed	Skier	Before each pass	Speed in MPH/KPH	Speed in MPH/KPH	Speed in MPH/KPH
Kd	Skier – should be set to normal unless skier asks for other setting	Before each pass	Normal = 28		Normal = 28
A, B, C	Skier - should be set to B unless skier asks for other setting	Before each pass		A = More aggressive deceleration B = Normal (default) balanced accel/decel C = More aggressive acceleration	

***XX = No GPS system tested***

**NOTES for 2008: 1. If the designated towboat has multiple GPS systems available, the skier has the option to select from available GPS systems.**

**2. If the tournament committee chooses to use Perfect Pass Classic, then no choice in Speed Control Systems is permitted.**

**3. For Regionals and Nationals, in slalom and jump, boat draws shall be determined by July 1 with the towboat manufacturers to designate the speed control system for each division's events. Boat draws for Regionals and Nationals may differ.**