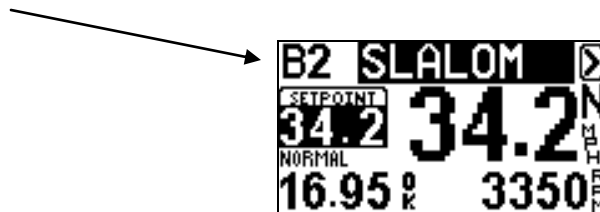# Z Box User Information – R Version 9

The Z Box and Software Upgrade is simply an enhancement to the Star Gazer System. It is still vitally important to ensure your baseline RPM values are accurate for optimum performance. **(We recommend you write down your baselines from each speed before installing new software).**

As soon as your new software is loaded and your Z Box is connected, your Star Gazer Slalom Screen will change slightly by adding the "ZO Pull Value" as shown below:

"B2 Pull Value"

Just like the ZO System, you can select from any of the standard 9 settings (A1, A2, A3, B1, B2, B3, C1, C2, C3) In the event you go lower than A1, "SG" will appear which means the Z Box is Off and you are running the standard Star Gazer Software.

"StarGazer Pull Setting Z Box Off"

A. The **A** Setting provides a slower system response out of the buoy, and a faster release after the wake.
B. The **B** Setting provides a moderate response out of the buoy, and a moderate release after the wake.
C. The **C** Setting provides a more aggressive system response out of the buoy, and a slower release after the wake.

   1, 2, 3 Settings – The higher the #, the more aggressive the response. (Ex: B2 is more aggressive than B1.)

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The "R" Version allows you to set a "+" setting in addition to the normal letter. Shown below is B2+.

```
B2+ SLALOM    ▷
┌SETPOINT┐        N
34.2  00.0 E
NORMAL           R
16.95 ⓚ     00 M
```

"+" setting results in a faster entrance speed and less "throttle up" in early part of course.

Background Adjustable Settings (ON/OFF & UP Keys together)

While most users will never need to make adjustments, PerfectPass has made some internal settings accessible in the event your boat's performance could benefit from a setting change. (Note: Before any adjustments are ever made you should confirm in CAL BASELINE Mode that you get perfect times without a skier which confirms your baselines are ok.)

Access these screens by pressing the ON/OFF & UP Keys together.

```
Feather
Light
Normal
XLarge
```

MENU Key to move down list

UP Key to make adjustments

These internal settings are related to the Star Gazer software, not the Z Box directly. If you find your times are consistently a little slow at ball one, ball 3 or vice versa, you may want to tweak these settings.

There are independent settings for each skier size (Feather, Light, Normal and X-Large). The table on the next page shows the internal chart for each factory setting:

```
Normal <:34.2
Ball 1       08
Ball 3       50
B4toEXIT     35
```

This screen shows the chart for normal setting, 34.2 mph and less.

Ball One – This setting primarily controls the Ball One Time. In the event your ball one times are consistently on the slow side, try moving this value higher by about 5 points each time until your Ball One Times are nicely balanced. (The factory setting is about 8.)

Ball Three – This setting controls the speed from Ball One to Ball Three. In the event your Ball Three Times are consistently on the slow side, try adjusting higher or if fast set lower. (The factory setting ranges from 50-64)

Ball Four to Exit – This setting controls the speed to exit. Typically most boats can start to back off as less rpm is required in this section. The higher the value, the faster the time in the final section of course. (The factory value ranges from 23 to 35) Ex: If you see consistently fast times in the final part of the course, you can lower this value and more rpm will be taken away.

INTERNAL SETTINGS

	Ball 1	Ball3	Ball 4 to Exit
Feather	08	50	35
Light 34.2 & below	08	50	35
Light 36.0	10	64	23
Normal 34.2 & below	08	50	31
Normal 36.0	10	64	23
Xtra Large	08	64	35

Each skier size setting has its own values. If you primarily use Normal at 34.2 mph, simply adjust the values associated with this section.

Press Menu for additional screen settings.

```
MODE SETTINGS
Kx          n
Zbx        08
ABC adj    00
⊗OR ⊙=EDIT  MENU=NEXT
```

Use MENU Key to move through screen.

KX – KX speeds up the boats general throttle response. It comes set at N for Normal. If you have an older carbureted boat and find you would like it more aggressive, you can set this to "+" or "++". (KX minus is not recommended).

Z Box Settings

ZBX – This value simply increases the intensity of the systems response to the skiers pull. It comes factory set at 8, a higher value will increase the response. (Adjust in small increments only) Ex: You feel the throttle response is too strong, you can lower the value by a point or two.

ABC adj – This defaults to 00 and is a value related directly to the response of the A,B,C (1,2,3) settings. Ex: If you require a B2 setting on your boat to make it feel like an A2 setting on newer boats, you can adjust this so the chart on your boat will match the newer boats. In this example, the "ABC adj" value can be adjusted up (to 03 or 3 positions) and now your boats B2 will feel like the B2 on a newer promo boat.

The idea here is that you can get the chart settings on your boat to align and feel like and match those newer boats you ski behind. This may be required if you have a 1:1 transmission or a smaller prop. Discuss with PerfectPass Tech Support if you feel a change is required.

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