

| Blacktip Settings - Pocket Guide | | | |
|---|---------------------------|--|----------------------|
| The following settings are specific to Blacktip app V2.2 (as modified from V1.18) | | | |
| Awesome V2.2 settings need to be activated to function and default to OFF | | | |
| User should only adjust orange settings (White settings are for factory adjustment) | | | |
| Command | Definition | Explanation | Default |
| To change values type the command followed by the value. Example \$d4 sets the default speed to 4 | | | |
| \$S | View Settings | Displays Current Blacktip Settings. No value required | |
| \$# | Reset all | Resets all settings to default. No Value required | |
| \$w | Magic | Not Used | 27F3 |
| \$d | Speed Default | Initial speed of the blacktip when starting | 3 |
| \$M | Maximum Speed | Sets the number of speeds available. Up to 9 Speeds can be used | 9 |
| \$U | Use Safety | Turn safe start on or off. 1 = On, 0 = Off. | 0 |
| \$T | Trigger on Time | Double click timing setting. Should be no reason to change this | 400 |
| \$t | Trigger Off Time | Double click timing setting. Should be no reason to change this | 500 |
| \$r | Ramp Rate | Speed ramp rate. The aggressiveness of the acceleration between speeds | 1500 |
| \$m | Migrate Rate | When you restart the scooter after releasing the trigger the scooter resumes at a speed based on the duration that you were off the trigger. The longer you are off the trigger the closer that restart speed is to the default gear. This setting controls how fast speed changes. Value is in milliseconds per gear. | 5000 |
| \$G | Guard High Value | Safe start high current setting. Should be no reason to change | 6 |
| \$g | Guard Low Value | Safe Start low current setting. Should be no reason to change | 0.5 |
| \$h | Guard Current Limit | Max permissible battery current when in safe start mode. Should be no reason to change | 0.3 |
| \$j | Guard ERPM Limit | ERPM speed in safe start mode. Should be no reason to change | 900 |
| \$k | Guard Max ERPM | Max Permissible ERPM in safe start mode. Should be no reason to change | 1500 |
| \$c | Safe Start Count | Number of current measurements setting the time duration of safe start mode. 50 is approximately 3 sec. | 50 |
| \$F | Fail Count | Number of failed current measurements required to exit safe start mode. Should be no reason to change | 5 |
| \$a | Current Filter | Safe Start current filter setting. Should be no reason to change | 0.2 |
| \$b | Display Brightness | Display Brightness | 6 |
| \$R | Display Rotation | Rotation of Display, 0-3 . Each number rotates display 90 deg. | 0 |
| \$p | | how long to display battery status when initially connecting the power. Milliseconds | 10000 |
| \$f | | how long to wait after coming off trigger until displaying the battery status. Milliseconds. | 3000 |
| \$D | | how long to display battery status when coming off trigger. Milliseconds. | 6000 |
| \$n | | How long to display the new speed when changing motor speeds. Milliseconds. | 3500 |
| \$i | Battery Imbalance voltage | Voltage difference at which display indicates there is a battery imbalance | 2 |
| \$x | Battery 2 resistor ratio | Set to 0 to disable if you keep getting battery errors | 14 |
| \$l | Logging Commands | Controls information shown in the terminal when monitoring controller on USB | 0 |
| | | \$l0 --> turn all logging off | |
| | | \$l1 = Speed log ON | |
| | | \$l2 = Safety log ON | |
| | | \$l4 = Display log ON | Inc battery Voltages |
| | | \$l8 = Trigger log ON | |
| \$C | | Use Cruise Control. 1 = On, 0 = Off. [Access cruise control with 4 clicks] | 0 |
| \$J | | Use Jump Speed. 1 = On, 0 = Off. [Access jump speed with 3 clicks] | 0 |
| \$K | | Jump Speed setting | 6 |
| \$e | | Disable Low Speed Migrate (don't migrate to a higher speed if below Speed Default). 1 = On, 0 = Off | 0 |
| \$E | | Use Reverse Gears. 1 = On, 0 = Off. [Access reverse with 5 clicks] | 0 |
| \$S1 | Speed 1 ERPM | ERPM setting for this gear | 1525 |
| \$S2 | Speed 2 ERPM | ERPM setting for this gear | 2300 |
| \$S3 | Speed 3 ERPM | ERPM setting for this gear | 3100 |
| \$S4 | Speed 4 ERPM | ERPM setting for this gear | 3525 |
| \$S5 | Speed 5 ERPM | ERPM setting for this gear | 3900 |
| \$S6 | Speed 6 ERPM | ERPM setting for this gear | 4150 |
| \$S7 | Speed 7 ERPM | ERPM setting for this gear | 4450 |
| \$S8 | Speed 8 ERPM | ERPM setting for this gear | 4850 |
| \$S9 | Speed 9 ERPM | ERPM setting for this gear | 5000 |
| \$L1 | Speed 1 Current Limit | Current Limit for this gear | 1 |
| \$L2 | Speed 2 Current Limit | Current Limit for this gear | 2.2 |
| \$L3 | Speed 3 Current Limit | Current Limit for this gear | 3.8 |
| \$L4 | Speed 4 Current Limit | Current Limit for this gear | 6.2 |
| \$L5 | Speed 5 Current Limit | Current Limit for this gear | 9.6 |
| \$L6 | Speed 6 Current Limit | Current Limit for this gear | 12.8 |
| \$L7 | Speed 7 Current Limit | Current Limit for this gear | 17 |
| \$L8 | Speed 8 Current Limit | Current Limit for this gear | 22.8 |
| \$L9 | Speed 9 Current Limit | Current Limit for this gear | 23.0 |
| \$B1 | | Battery Bar voltage settings, above this level 2 bars | 34 |
| \$B2 | | Battery Bar voltage settings, above this level 3 bars | 36 |
| \$B3 | | Battery Bar voltage settings, above this level 4 bars | 38 |