PROFILE 1 — BASHING

	LED COLOR >						# LED BLINKS 1	2	3	4	5	6	7	8	9	10
1	Profile Select	x		x		x	1	2	3	4						
2	Drag Brake (%)	x					OFF	3	6	9	15	20	25	30	40	50
3	Min Brake (%)		x				0	3	6	9	12	15	18	20	30	45
4	Brake Freq (KHz)			x			1.5	2	2.2	2.5	3	3.5	4.5	6	7	8
5	Timing (degree)				x		0	10	15	18	20	25	28	30	33	35
6	Timing RPM					x	Low	2	3	4	5	6	7	8	9	High
7	Brake Power (KHz)	x	x				10	20	30	40	50	60	70	80	90	100
8	Dead Band (%)	x		x			2	3	4	5	8					
9	Drive Freq (KHz)	x			x		8	10	12	14	16	21	23	26	32	36
10	Min Drivev(%)	x				x	0	1	2	3	4	6	8	10	12	15
11	Reverse	x	x	x			OFF	ON								
12	Motor Rotation	x	x		x		CCW	CW								
13	Voltage Cut-Off	x	x			x	OFF	ON								
14	Data Reset		x		x		NO	YES								
15	Sensor Test	A	B	C												

Standard operation with reverse.
Recommended for 4x4 SCT / Bashing.
540 / 550 / 4-Pole Motor Compatible.

PROFILE 2 — RACING

	LED COLOR >						# LED BLINKS 1	2	3	4	5	6	7	8	9	10
1	Profile Select	x		x		x	1	2	3	4						
2	Drag Brake (%)	x					OFF	3	6	9	15	20	25	30	40	50
3	Min Brake (%)		x				0	3	6	9	12	15	18	20	30	45
4	Brake Freq (KHz)			x			1.5	2	2.2	2.5	3	3.5	4.5	6	7	8
5	Timing (degree)				x		0	10	15	18	20	25	28	30	33	35
6	Timing RPM					x	Low	2	3	4	5	6	7	8	9	High
7	Brake Power (KHz)	x	x				10	20	30	40	50	60	70	80	90	100
8	Dead Band (%)	x		x			2	3	4	5	8					
9	Drive Freq (KHz)	x			x		8	10	12	14	16	21	23	26	32	36
10	Min Drivev(%)	x				x	0	1	2	3	4	6	8	10	12	15
11	Reverse	x	x	x			OFF	ON								
12	Motor Rotation	x	x		x		CCW	CW								
13	Voltage Cut-Off	x	x			x	OFF	ON								
14	Data Reset		x		x		NO	YES								
15	Sensor Test	A	B	C												

Standard operation with reverse disabled.
Defaults set with no timing for "blinky" mode racing.
Great starting profile for club and spec racing.
540 / 550 / 4-Pole Motor Compatible.

PROFILE 3 — TIMING TEST

	LED COLOR >						# LED BLINKS 1	2	3	4	5	6	7	8	9	10
1	Profile Select	x		x		x	1	2	3	4						
2	Drag Brake (%)	x					OFF	3	6	9	15	20	25	30	40	50
3	Min Brake (%)		x				0	3	6	9	12	15	18	20	30	45
4	Brake Freq (KHz)			x			1.5	2	2.2	2.5	3	3.5	4.5	6	7	8
5	Timing (degree)				x		0	10	15	18	20	25	28	30	33	35
6	Timing RPM					x	Low	2	3	4	5	6	7	8	9	High
7	Brake Power (KHz)	x	x				10	20	30	40	50	60	70	80	90	100
8	Dead Band (%)	x		x			2	3	4	5	8					
9	Drive Freq (KHz)	x			x		8	10	12	14	16	21	23	26	32	36
10	Min Drivev(%)	x				x	0	1	2	3	4	6	8	10	12	15
11	Reverse	x	x	x			OFF	ON								
12	Motor Rotation	x	x		x		CCW	CW								
13	Voltage Cut-Off	x	x			x	OFF	ON								
14	Data Reset		x		x		NO	YES								
15	Sensor Test	A	B	C												

Standard operation with reverse disabled, timing values active, and low power brakes. Doing a little speed run testing, you can use this profile to save a little time and start out safe.
540 / 550 (2S-3S) / 4-Pole Motor Compatible.

PROFILE 4 — CRAWLING

	LED COLOR >						# LED BLINKS 1	2	3	4	5	6	7	8	9	10
1	Hill/Hold/Drag Brake	x					OFF	20	45	75	95	P1	P2	P3	P4	P5
2	Brake Freq (KHz)			x			1.5	2	2.2	2.5	3	3.5	4.5	6	7	8
3	Rock Boost™				x		OFF	ON								
4	Dead Band (%)	x		x			2	3	4	5	8					
5	Drive Freq (KHz)	x			x		8	10	12	14	16	21	23	26	32	36
6	Min Drivev(%)	x				x	0	1	2	3	4	6	8	10	12	15
7	Motor Rotation	x	x		x		CCW	CW								
8	Voltage Cut-Off	x	x			x	OFF	ON								
9	Data Reset		x		x		NO	YES								
10	Sensor Test	A	B	C												

Auto-detects Novak Crawling brushless motor. This mode features Novak's Hill/Hold/Drag Brakes (Parameter #1 with Power Hill Settings P1-P5), Rock Boost (Parameter #3; for 2S only), and instant reverse.

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CRUSHER

THROTTLE PROFILE CHEAT SHEET

Default settings for each profile highlighted in orange. Perform One-Touch Set-Up prior to customization (refer to instructions).

For explanation of programming parameters, refer to the Crusher Field Guide (available in the DOWNLOADS section of the Novak website www.teamnovak.com/downloads). There is a Field Guide for Standard Modes of operation (Profiles 1-3) and Crawling Mode.

To revert to the default settings, select #14 (#9 in the Crawling Profile) parameter DATA RESET and select two blinks.

TO CHANGE PARAMETER SETTINGS:

1. CONNECT THE ESC TO A FULLY CHARGED BATTERY PACK, A RECIEVER, AND THE MOTOR'S SENSOR HARNESS
2. SLIDE THE ESC's ON/OFF SWITCH TO 'ON' POSITION
3. WITH ESC AT NEUTRAL, PRESS & HOLD SET BUTTON.
   Release ESC's SET button once LEDs are lit for the desired setting;To skip a parameter, continue to press & hold SET button until desired parameter is reached.
4. SELECT PARAMETER VALUE
   LED flashes to indicate active setting (refer to table). Quick press & release SET button to select desired setting.
5. PRESS & HOLD SET BUTTON TO STORE NEW SELECTION
   When SET button is pressed & held for about 1 second, new selection is stored in ESC's memory—Status LEDs will scroll to indicate ESC is exiting programming & ESC returns to neutral.

There is no time constraint during selection of custom parameters.

SENSOR TEST: Release button and rotate motor to confirm sensor operation. Blue/Amber/Red LED will blink as you rotate the motor pinion shaft.

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