

NEW SOFTWARE



NEW LRP FLOW OFF-ROAD WORLDS SOFTWARE v3.8

The firmware that dominated the Worldwide Off-Road Racing. LRP team drivers like Steven Hartson and Martin Bayer completely dominated the Off-Road Racing scene already with the prototype version in 2013, winning the IFMAR World Championships and the EFRA European Championships amongst others. We combined all the experience by creating the prototype firmware up to these two championships with the additional insights that we gained during these successful races and are proud to announce firmware v3.8. It truly is the software of champions.

The main focus in developing the new v3.8 Off-Road firmware was set on the brake adjustment. The brakes are one of the most important elements in Off-Road Racing. Our LRP engineers created the perfect brake for all the different surfaces/conditions. Only LRP offers 3 different brake types: Semi X-Brake, X-Brake and BR2 - you choose according to your needs. When you go into the brakes you start to get a great brake feel and while the car slows down, it is still possible to modulate the brakes nicely. The initial brake adjustment is now also possible. You can dial in the amount of brake you get at the very first moment of the trigger. The handling in the infield is improved due to the new initial drive adjustment and the more precise adjustable boost.



Firmware: v3.8
Product: Flow Competition Flow Works Team
Description: Off-Road Worlds Software
Part No.: 80960
 80970

KEY IMPROVEMENTS

- 3 DIFFERENT BRAKE TYPES: SEMI X-BRAKE, X-BRAKE AND BR2
- INITIAL BRAKE ADJUSTMENT
- INITIAL DRIVE ADJUSTMENT

ADDITIONAL EXPLANATION OF FUNCTIONS FROM THE LRP FLOW OFF-ROAD WORLDS SOFTWARE v3.8

MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8
<p>Autobrake (or „Drag brake“): Defines percentage of applied braking power when the throttle position on the radio is in neutral.</p>	<p>Brake Type (v3.8 -> new features) Try different brake types to find which suits your driving style best.</p> <p>Semi X-Brake (v3.8 -> improved): Features increasing braking force towards lower speeds. Suggested for wet or lower grip conditions.</p> <p>X-Brake: Features powerful high speed braking towards smoother low RPM braking with very neutral braking effect. Suggested for all classes and conditions.</p> <p>BR2 (v3.8 -> new): Features most direct feel and strong braking power throughout whole braking band. Suggested for high grip and high speed tracks.</p> <p>„Ramp“ and „SP“ (v3.8 -> improved): This algorithms are designed especially for Off-Road driving to prevent too aggressive braking at highest motor RPM with your selected Brake type. Using less Ramp (70%) will result in smoother and more controlled braking at higher speeds towards increasing and full braking effect reached at lower RPM. Choosing „SP“ setting will give linear and most direct braking effect also at top speeds.</p>	<p>Initial Brake (v3.8 -> new feature): Defines braking power which is added to autobrake when you first apply brake. This will give you sort of „handbrake“ effect when hitting the brakes. Suggested to use on tight infield tracks with many 180° curves.</p>	<p>Initial Drive (v3.8 -> improved settings for more adjustability): Defines percentage of initial throttle power. This allows to adjust smooth throttle or aggressive acceleration. Suggested use: Modified classes (smooth settings 1-2), Stock classes (aggressive settings 4-5)</p>	<p>Torque Timing: This function is designed especially for X12/X20/X20SS/K7 motors. Using Torque Timing will increase efficiency and improve the lower powerband, resulting in smoother operation and cooler running motors. Suggested settings 0-2. For motors of other brands we recommend to use 0° Torque Timing. For Boost Zero Classes Torque Timing 0 must be selected.</p>	<p>Boost Timing (v3.8 -> improved settings for more adjustability): Defines the maximum Boost Timing setting. Suggested settings 0-3. For Boost Zero Classes Boost 0 must be selected. If Boost 0 is selected, mode 7 will not be shown.</p>	<p>Boost Angle (or „Punch“): Defines how quickly you will reach your selected Boost Timing. The higher the setting the faster you reach the Boost Timing. This results in greater power and faster acceleration.</p>	<p>Protection: Defines the level of protection for your speedo and motor. Battery protection is always active.</p>

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MODE	1	2	3	4	5	6	7	8	
Red LED									
Blue LED									
Yellow LED			Fast						
Settings Green LED	Auto Brake	Brake Ramp	Brake Type	Initial Brake	Initial Drive	Torque Timing	Boost Timing	Boost Angle	Protection
	[%]	[%]	-	[%]	[%]	[°]	[°]	[°/10k]	-
0	0			0		0	0		Speedo & Motor
1	3	70	Semi X-Brake	3	1	5	3	1	Speedo only
2	6	85		6	2	10	6	2	
3	9	SP		9	3	15	9	3	
4	12	70	X-Brake	12	4	20	12	4	
5	15	85		15	5	25	15	5	
6	18	SP		18			18	6	
7	21	70	BR2	21			21	7	
8	24	85		24			24	8	
9	27	SP		27			27	9	
10	30			30			30	10	

Factory default settings are shown in

White

For additional explanations see original user manual. Below are only important short explanations!
Note: If Boost Timing (Mode 6) is „#0“, then Mode 7 is disabled and will not be indicated.

Grey

HOW TO GET INTO „MODE PROGRAMMING“

Press MODE button for at least 3sec.

- How to check the stored settings → Count the number of flashes of the green SET-LED.
- How to change the settings → Press SET button to increase setting by one step.
- How to get to the next Mode → Press MODE button once.
- How to leave the programming mode → If last Mode is reached press the MODE button one more time. This will also store your settings.

RESET SPEED CONTROL TO FACTORY SETTINGS AFTER SOFTWARE UPDATE. MUST BE EXECUTED AFTER EACH SOFTWARE UPDATE!

Switch on the transmitter, then press and hold SET button while switching on the speed control. This will set speed control to factory default settings.

CALIBRATE SPEED CONTROL TO TRANSMITTER. MUST BE EXECUTED AFTER EACH SOFTWARE UPDATE!

Connect the speed control to the battery and switch it on. Hold SET button pressed for at least 3sec.

- Blue Led flashing. Leave transmitter in neutral position and press the SET button → Neutral saved.
- Yellow Led flashing. Hold full throttle on transmitter and press SET button → full throttle saved.
- Red Led flashing. Hold full brake on transmitter and press SET button → full brake saved.

HOW TO READ OUT THE MAXIMUM TEMPERATURE:

Press and hold MODE button while switching on the speed control. Then release button.

For speedo temperature read-out count the slow flashes of green LED to indicate "Speedo temperature till shutdown"

Slow green LED	1	2	3	4	5	6	7	8	9	10
Temp. °C	> -54°C	-48°C	-42°C	-36°C	-30°C	-24°C	-18°C	-12°C	-6°C	Shutdown
Temp. °F	> -97°F	-86°F	-76°F	-65°F	-54°F	-43°F	-32°F	-22°F	-11°F	Shutdown

For motor temperature read-out press MODE button again and count green flashes to indicate "Motor temperature till shutdown"

Fast green LED	1	2	3	4	5	6	7	8	9	10
Temp. °C	> -45°C	-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	Shutdown
Temp. °F	> -81°F	-72°F	-63°F	-54°F	-45°F	-36°F	-27°F	-18°F	-9°F	Shutdown