

FIRING MODE TABLE

Your Rampage™ board comes preloaded with 8 firing modes. To change modes, press the Mode Selector Button. Each time the Mode Selector Button is pressed, the LED indicator will blink, indicating what mode is selected. Each mode has a corresponding LED blink sequence.

MODE	LED INDICATOR	MODE DESCRIPTION
Semi	1x Slow Yellow	Fires 1 shot per each trigger pull.
Burst	3x Fast Green	x rounds fired per trigger pull (x = 2 to 5).
Reactive	2x Fast Red	1 round fired per trigger pull and 1 round fired per trigger release.
Full Auto	6x Flicker Green	Fires continuously while the trigger is held.
Turbo+	1x Slow Red	Semi-Automatic until a x trigger-per-second pull rate, then transitions to Reactive Mode. Maintains Reactive Mode until the trigger pull rate drops below x per second (x = 4 to 10).
Rampage	2x Fast Green	Semi-Automatic until a x trigger-per-second pull rate, then transitions to programmable burst firing. Maintains burst firing until rate drops below x per second (x = 4 to 10)
PSP3	3x Fast Red	Three shots in Semi-Automatic then transitions to 3 Round Burst. Resets to Semi-Automatic after 1 sec. of inactivity.
NXL	6x Flicker Yellow	Three shots in Semi-Automatic then Full Automatic on the 4th pull & hold. Resets to Semi-Automatic after 1 sec. of inactivity.
Idle	3x Fast R/G/Y	Prevents the marker from firing when the trigger is pressed.

RAMPAGE™ BOARD SETPOINTS

SETPOINT	RANGE	LED INDICATOR	DEFAULT
MGRF	5-30bps	Red	15bps
Debounce	1-50ms	Green	10ms
Dwell	1-20ms	Yellow	6ms
Burst Rounds	2-5 shots	Fast Red	3 Shots
Rampage Rounds	2-5 shots	Fast Green	3 Shots
Turbo+ Pull Rate	4-10 Pulls	Fast Yellow	5 Pulls
Rampage Pull Rate	4-10 Pulls	Red Flicker	5 Pulls
Base Group Enable	1-16	Green Flicker	15
Ramp Group Enable	1-32	Yellow Flicker	31

PROGRAMMING YOUR RAMPAGE™ BOARD

Although most users will find the default operation sufficient, your Rampage™ board has unmatched flexibility when it comes to customization. Your Rampage™ board has 9 adjustable setpoints. To Enter/Exit Programming mode, Press and Hold the Mode button for 2 full seconds. The LED will Flash Red/Green 10 times. **Note – BT Users see other side of this manual to for instruction on how to enter programming mode.**

PROGRAMMING MODE

The first programmable setpoint is the MGRF (the LED will be solid Red). Each trigger pull advances to the next setpoint indicated by the corresponding LED ID color (refer to the Setpoint Table).

When you have reached the setpoint you wish to verify or adjust, press the Mode button again.

The LED will now repeatedly “blink” corresponding to the current setpoint value, allowing verification.

Pulling the trigger again will advance to the next setpoint.

To change the setpoint value, press the Mode button once again.

The LED will “flash” indicating it’s ready for a new setpoint value. Pull the trigger accordingly to enter the new setpoint value (the LED will blink for each trigger pull).

Press the Mode button one more time.

The LED will give you another “flash” indicating it has accepted the new setpoint value.

The LED will revert back to “blinking” the new setpoint value.

Verify your new value, then pull the trigger again to advance to the next setpoint.

MGRF - MAX GLOBAL RATE OF FIRE

Sets the maximum BPS Rate the marker can fire in all firing modes.

DEBOUNCE

Sets the trigger debounce time (in milliseconds) for all firing modes. Lowering the debounce time can potentially cause erratic firing operation. Increase the debounce time if required until the erratic trigger operation ceases.

DWELL

Sets the solenoid dwell (in milliseconds) for each shot fired by the marker. Lowering the dwell period will conserve battery power but may not reliably trip the marker sear. Raising the dwell period may be required to reliably trip the marker sear due to mechanical issues or higher rates of fire.

BURST MODE ROUNDS

Sets the number of rounds fired for each trigger pull in Burst Mode.

RAMPAGE MODE ROUNDS

Sets the number of burst rounds fired in Rampage Mode.

TURBO+ PULL RATE

Sets the trigger pull rate required to ramp from Semi-Automatic operation to Reactive operation while in the Turbo+ Mode. Reactive Mode operation is maintained until the trigger rate drops below the pull rate setpoint.

RAMPAGE™ PULL RATE

Sets the trigger pull rate required to ramp from Semi-Automatic operation to Burst operation while in the Rampage Mode. Burst Mode operation is maintained until the trigger rate drops below the pull rate setpoint.

BASE GROUP ENABLE

Allows you to enable/disable the Base Firing Modes. Refer to the Base Group Firing Mode Table for values.

RAMP GROUP ENABLE

Allows you to enable/disable the Ramp Firing Modes. Refer to the Ramp Group Firing Mode Table for values.

For technical support or help with your APE product, please contact

SUPPORT@GOAPEONLINE.COM

Ramp Group					
Value	Idle	NXL	PSP3	Rampage	Turbo+
1	No	No	No	No	Yes
2	No	No	No	Yes	No
3	No	No	No	Yes	Yes
4	No	No	Yes	No	No
5	No	No	Yes	No	Yes
6	No	No	Yes	Yes	No
7	No	No	Yes	Yes	Yes
8	No	Yes	No	No	No
9	No	Yes	No	No	Yes
10	No	Yes	No	Yes	No
11	No	Yes	No	Yes	Yes
12	No	Yes	Yes	No	No
13	No	Yes	Yes	No	Yes
14	No	Yes	Yes	Yes	No
15	No	Yes	Yes	Yes	Yes
16	Yes	No	No	No	No
17	Yes	No	No	No	Yes
18	Yes	No	No	Yes	No
19	Yes	No	No	Yes	Yes
20	Yes	No	Yes	No	No
21	Yes	No	Yes	No	Yes
22	Yes	No	Yes	Yes	No
23	Yes	No	Yes	Yes	Yes
24	Yes	Yes	No	No	No
25	Yes	Yes	No	No	Yes
26	Yes	Yes	No	Yes	No
27	Yes	Yes	No	Yes	Yes
28	Yes	Yes	Yes	No	No
29	Yes	Yes	Yes	No	Yes
30	Yes	Yes	Yes	Yes	No
31	Yes	Yes	Yes	Yes	Yes
32	No	No	No	No	No

Base Group				
Value	Auto	Reactive	Burst	Semi
1	No	No	No	Yes
2	No	No	Yes	No
3	No	No	Yes	Yes
4	No	Yes	No	No
5	No	Yes	No	Yes
6	No	Yes	Yes	No
7	No	Yes	Yes	Yes
8	Yes	No	No	No
9	Yes	No	No	Yes
10	Yes	No	Yes	No
11	Yes	No	Yes	Yes
12	Yes	Yes	No	No
13	Yes	Yes	No	Yes
14	Yes	Yes	Yes	No
15	Yes	Yes	Yes	Yes
16	No	No	No	No