

PROFILE SELECTION & MIN. BRAKE ADJUST

ATTENTION: After STEP 6 (end of Basic Set-Up Guide), your GTX is fully programmed & Ready-to-Run

Your GTX is now set-up just like our top factory drivers currently use it!

- The settings on this page are optional--No further adjustments are required •

#IM-1780P-2

9-2004

ADJUST MINIMUM/DRAW BRAKE

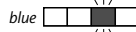
The GTX lets you select between 2 different styles of braking--the **Standard Constant Force** brakes or **Drag Braking**. Either style you choose, you also get to select from 7 different levels of initial braking. In addition to this, the GTX stores a separate Minimum or Drag Brake setting for each of the 7 Throttle Profiles.

Minimum/Draw Brake value = percentage of full-brakes (transmitter @ full-brake pos.)
The braking then ranges from selected value up to 100% braking force.

Min/Draw Brake Setting#:	1	2	3	4	5	6	7
Minimum Brake (%):	0	20	30	35	40	45	50

The default Min.Brake setting for all 7 Profiles is #2 (20% Minimum Brake).

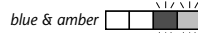
SELECT MINIMUM BRAKE %:



With GTX connected to a charged battery (transmitter ON or OFF):

- IF TRANSMITTER IS OFF, DISCONNECT GTX FROM RECEIVER**
Without a transmitter signal present there is a risk of possible radio interference from other transmitters, so it is advised to remove the GTX's input signal harness from the receiver.
- TURN ON THE SPEED CONTROL'S POWER**
- PRESS & HOLD THE GTX'S ONE-TOUCH SET BUTTON**
Press and hold SET button on GTX until the blue LED turns on.
- RELEASE SET BUTTON AS SOON AS BLUE LED COMES ON**
Once released, the blue status LED will flash to indicate what Minimum Brake value is currently selected. The number of times the LED flashes indicates the Minimum Brake selection (1 of 7).
- QUICK PRESS (& release) SET BUTTON TO CHANGE SELECTION**
Each press will change to the next consecutive Minimum Brake value. (After value #7, the sequence begins again at value #1)
Note: there is no time constraint during this selection process--if button is not pressed, software rolls over & LED flashes current selection again.
- PRESS & HOLD THE GTX'S SET BUTTON TO ENTER SELECTION**
When SET button is pressed & held for about 1 second, the selected Minimum Brake value is stored in the GTX's memory for the active Profile--The 4 different color status LEDs will then scroll back & forth to indicate that you are exiting the Minimum Brake selection part of the GTX's software. The red status LED will then turn on solid (red & green if no transmitter signal present), indicating that the GTX is at neutral & ready to go.

SWITCH TO DRAG BRAKING:



Every bit as easy as it was to select the Minimum Brake value above, it's that easy to switch over to Drag Braking and select its value.

With GTX connected to a charged battery & GTX powered ON:

- PRESS & HOLD THE GTX'S ONE-TOUCH SET BUTTON**
Press and hold SET button on GTX until the blue LED turns on.
- CONTINUE HOLDING SET BUTTON PAST THE BLUE LED**
- RELEASE SET BUTTON WHEN BLUE & AMBER LEDs COMES ON**
Once released, the blue & amber status LEDs will flash to indicate that Drag Braking is now active and which Drag Brake value is currently selected. (# of flashes = Drag Brake selection--1 of 7)
- QUICK PRESS (& release) SET BUTTON TO CHANGE SELECTION**
Each press will change to the next consecutive Drag Brake value.
- PRESS & HOLD THE GTX'S SET BUTTON TO ENTER SELECTION**
When pressed & held for about 1 second, selected Drag Brake value is loaded into GTX's memory for active Profile. The 4 status LEDs scroll back & forth and GTX exits to the red status LED of neutral.

TO SWITCH BACK TO STD. BRAKING:

Just repeat steps in 'SELECT MINIMUM BRAKE %' above, and you're automatically switched back to Standard Constant Force brakes.

THROTTLE PROFILE SELECTION

The GTX is equipped with 7 user-selectable Throttle Profiles to choose from. The chart below shows how the different Throttle Profiles change the feel of the throttle response.

FEEL:	AGGRESSIVE	→					SMOOTH
PROFILE#:	1	2	3	4	5	6	7

The 'Factory-Installed Profiles' chart below shows the Drive Frequency, Minimum Drive, Brake Frequency, Minimum Brake, and Deadband values that are the factory defaults for Throttle Profiles 1-7.

FACTORY-INSTALLED PROFILES 1-7

Throttle Profile #:	1	2	3	4	5	6	7
Drive Frequency (kHz):	1.5	2.5	3.5	4.5	5.5	7.5	11.0
Minimum Drive (%):	3	3	3	5	5	5	6
Brake Frequency (kHz):	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Minimum Brake (%):	20	20	20	20	20	20	20
Deadband (%):	4	4	4	4	4	4	4
Standard Brakes are active:	√	√	√	√	√	√	√

NOTE: GTX is factory set to Profile #3--This is the current choice of our top drivers for stock & modified.

- Use higher Profile numbers for tracks with less grip •

(this gives you smoother throttle response)

- Use lower Profiles for higher grip tracks or stock motors •

(this gives you a more aggressive response)

SELECTING THROTTLE PROFILE:



With GTX connected to a charged battery (transmitter ON or OFF):

- IF TRANSMITTER IS OFF, DISCONNECT GTX FROM RECEIVER**
To avoid possible radio interference from other transmitters, remove the GTX's input signal harness from the receiver.
- TURN ON THE SPEED CONTROL'S POWER**
- PRESS & HOLD THE GTX'S ONE-TOUCH SET BUTTON**
Continue to hold SET button on GTX until all 4 LEDs turns on.
Note: you will continue holding past the blue and then blue & amber.
- RELEASE SET BUTTON AS SOON AS ALL 4 LEDs COMES ON**
Once released, the 4 status LEDs will flash to indicate what Throttle Profile is currently selected. The number of times the LEDs flash indicates the Throttle Profile selection (1 of 7).
- QUICK PRESS (& release) SET BUTTON TO CHANGE SELECTION**
Each press will change to the next consecutive Throttle Profile. (After Profile 7, the sequence begins again at Profile 1)
Note: there is a time constraint during this selection process.
- GTX STORES SELECTION & BEGINS TO EXIT PROGRAMMING**
When SET button is not pressed for about 3 seconds, the selected Profile is stored into memory & all 4 LEDs will come on solid. Then:
If a Profile other than 7 is selected: status LEDs will then turn off in a rolling motion from right to left, until just the red LED is on solid (red & green if no transmitter signal present). GTX is at neutral & ready to go.
If Profile 7 is selected: the 4 status LEDs will stay on solid for a few seconds (to give you a chance to enter into the 7th Profile Customization Mode)--if SET button is not pressed while they are all on solid, they will then turn off in a rolling motion from right to left (as above), until just the red LED is on solid (red & green if no transmitter signal present). The GTX is at neutral & ready to go.

REMEMBER: Whenever the One-Touch set-up is performed, the GTX will automatically revert to the factory default settings & the Throttle Profile will revert to #3.

www.teamnovak.com

ADVANCED -- 7TH PROFILE CUSTOMIZING

PLEASE NOTE: This page contains Advanced Programming items only!

Because of the GTX's high degree of adjustability, the items on this page give you access to a very powerful tool. This level of tuning also means you have the ability to thoroughly mess-up the GTX's performance.

- These programming items are **STRICTLY ADVANCED**--No further adjustments are required •

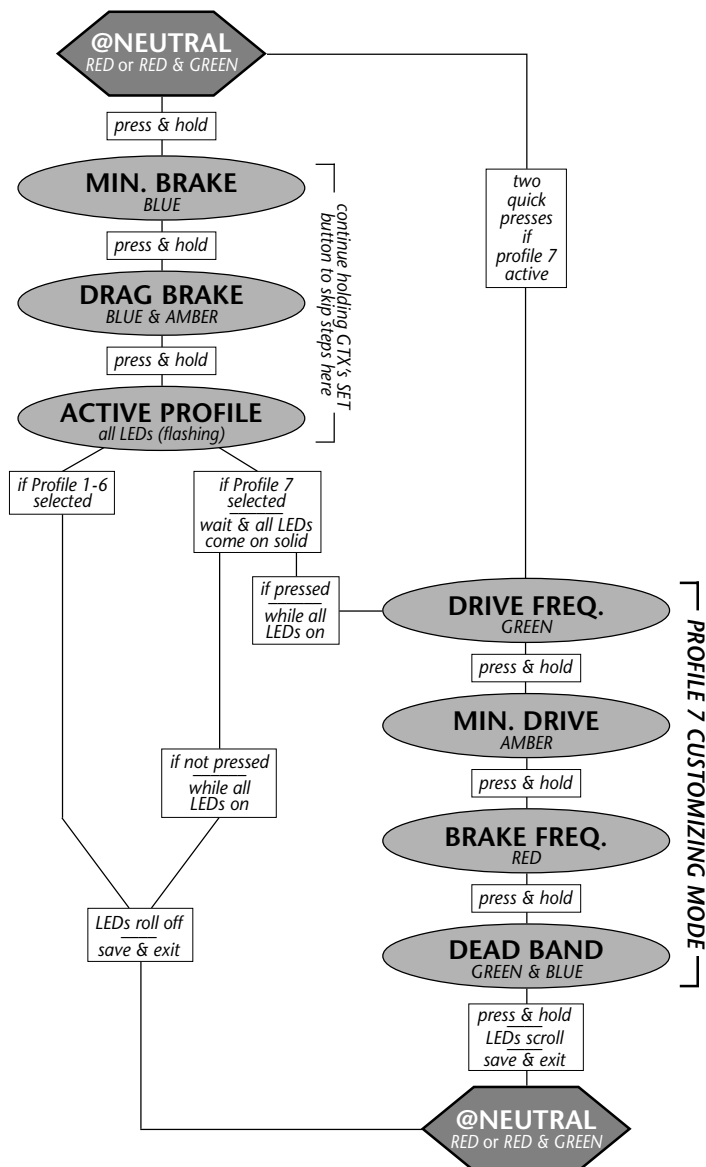
(but don't worry, you can always reset factory defaults by performing the One-Touch programming again, so go ahead & experiment--that's why you bought it, right?)

The GTX'S 7th Throttle Profile can be customized for fine tuning the speed control to feel just the way you like it with any motor.

The GTX lets you tune the following items in 7th Throttle Profile:

- **Drive Frequency**--1 of 7 frequencies from 1.5 to 11kHz.
- **Minimum Drive Percentage**--1 of 5 settings from 2 to 12%.
- **Brake Frequency**--1 of 5 frequencies from 1.5 to 6.5kHz.
- **Minimum Brake Percentage**--1 of 7 settings from 0 to 50%.
- **Braking Type**--1 of 2 types of braking styles (standard Constant Force braking or DRAG BRAKING).
- **Dead Band**--1 of 5 Dead Band settings from 2 to 6%.

GTX SOFTWARE FLOW CHART:



RESTORING GTX FACTORY DEFAULTS:

Every time you perform the One-Touch Set-Up, the GTX's factory default profile settings are restored--as shown in 'Factory-Installed Profile 1-7' chart.

TO ENTER PROFILE 7 CUSTOMIZING MODE:

With GTX connected to a charged battery (transmitter ON or OFF):

1. **IF TRANSMITTER IS OFF, DISCONNECT GTX FROM RECEIVER**
To avoid possible radio interference from other transmitters, remove the GTX's input signal harness from the receiver.
2. **TURN ON THE SPEED CONTROL'S POWER**
3. **MAKE THROTTLE PROFILE 7 ACTIVE**
If you are not sure that Profile 7 is selected, follow the procedures in 'Throttle Profile Selection' to check or select Profile 7.
4. **DOUBLE-CLICK SPEED CONTROL'S SET BUTTON**
With Profile 7 active & speed control in neutral, **quickly press & release GTX's SET button twice** to enter Profile 7 customizing mode. **All 4 LEDs will turn on solid** for about 1 second, then turn off. The **green status LED (2nd LED from left) will then flash to indicate the active Drive Frequency** (& that you're in the customizing mode).

TO ADJUST PROFILE 7 PARAMETERS:

Note: there is no time constraint during the Profile 7 customizing process.

5. **SELECT DRIVE FREQUENCY** green
Green status LED (2nd from left) flashes to indicate active Drive Frequency setting. Quick press & release to select desired setting.

Setting (# of flashes):	1	2	3	4	5	6	7
Drive PWM Frequency (kHz):	1.5	2.5	3.5	4.5	6.5	8.5	11.0

LESS AGGRESSIVE
6. **PRESS & HOLD SET BUTTON TO MOVE ON**
When **amber status LED (4th from left) comes on**, release SET button.
7. **SELECT MINIMUM DRIVE PERCENTAGE** amber
Amber status LED flashes to indicate active Minimum Drive setting. Quick press & release to select desired setting.

Setting (# of flashes):	1	2	3	4	5
Minimum Drive (%):	2	3	5	8	12
8. **PRESS & HOLD SET BUTTON TO MOVE ON**
When **red status LED (1st from left) comes on**, release SET button.
9. **SELECT BRAKE FREQUENCY** red
Red status LED flashes to indicate active Brake Frequency setting. Quick press & release to select desired setting.

Setting (# of flashes):	1	2	3	4	5
Drive PWM Frequency (kHz):	1.5	2.5	3.5	4.5	6.5

LESS AGGRESSIVE

Note: Same as Drag Brake frequency if Drag Brakes are active.
10. **PRESS & HOLD SET BUTTON TO MOVE ON**
When **green & blue status LEDs (2nd & 3rd) come on**, release SET button.
11. **SELECT DEAD BAND PERCENTAGE** green & blue
Green & blue status LEDs flash to indicate active Dead Band setting. Quick press & release to select desired setting.

Setting (# of flashes):	1	2	3	4	5
Dead Band (%):	2	3	4	5	6
12. **PRESS & HOLD SET BUTTON TO COMPLETE CUSTOMIZING**
When SET button is pressed & held for about 1 second, the **new Profile 7 selections are stored** in GTX's memory--The 4 status LEDs will then scroll back & forth to indicate you are exiting the Profile 7 Customization part of GTX's software. The red LED will turn on solid (red & green if no transmitter signal present)--GTX is at neutral & ready to go.