

Chip2Go

Quick Reference Guide

Chip2Go allows you to program RACE RESULT raw transponders ready to stick directly to bibs.

Raw transponders are fed in to the Chip2Go from a roll, encoded to the required number and fed out ready to easily remove and stick directly to a bib.

The unit features a chip check antenna on the front side to easily check a transponder's code.

Number entry can be achieved through either:

- Touchscreen keypad entry (with optional sequential count-up / count-down)
- USB number pad
- USB barcode scanner

The Chip2Go will only work with **RACE RESULT raw transponders**, these can be purchased in either single or duo configuration. The machine will automatically recognise these and will program either a single tags or two identical tags according to the roll.

System Setup

Screw in the power cable to the rear of the unit and the Chip2Go will power on automatically.

Chip2Go machines are shipped with a 15v power supply using the same connector as Loop Boxes and Track Boxes. Note that a Loop Box power supply only provides 12v, the Chip2Go will still run but motor speed will be reduced.

To prepare transponders first raise the mounting arm by pulling the black quick release latch and pulling the arm up until the latch clicks back in to lock the arm in place, the roll then fits on the arm.

Push back the silver brake plate and feed the plastic liner through the upper section of the unit until the first transponder is just visible below the red plate but ensure that the transponder does not cover the white programming antenna. **If the programming antenna is already covered by a transponder then this transponder will be fed past the antenna and cannot be used.**

On the display push *Feed*, or *manual feed forward*, and push the liner in to the slit below the programming antenna until the rollers catch the plastic liner and pull it through. The machine will keep feeding forward until the first transponder is positioned over the programming antenna.

Once finished you can tear off the excess liner by using the serrated cutter on the lower slit, you should cut the liner here with a transponder still in place as the excess liner is required to feed in to the system at the next start-up.

On the display select *Switch Mode* and then press *manual feed reverse* to feed the liner back out of the lower section, if the liner was not cut then it may require multiple presses to fully remove.

The transponders can now be pulled out from the upper section, the roll removed and the mounting arm returned to its transport position. To power down the unit simply remove the power supply.

Barcode Scanner Configuration

When using the barcode scanner for the first time it is necessary to scan the included QR code in order to set the scanner's configuration to correctly work with Chip2Go machines / barcodes. This should be done once for each individual barcode scanner.

The QR code is attached below and should be printed out and scanned.

Transponder Number Entry

Touchscreen Keypad (Single Number)

Using the built-in touchscreen display you can program the machine to encode either an individual number or a series of numbers counting up or down from a starting number.

When the system is first turned on it will display the number keypad, simply type your desired chip number and hit enter, the transponder will be encoded to that number and the number on the screen will automatically increase by one.

To return to this mode press **STOP** from count up/ count down, or **BACK** from the mode selection screen.

Count Up / Count Down

The system can continuously encode chips in a series counting up or down from a number, to do this first enter the desired starting number on the touchscreen keypad then press **SWITCH MODE** and select either *n count up* or *n count down* from the mode selection screen depending on your requirement.

Once pressed the machine will immediately start encoding with the first number in the sequence, once this transponder is removed the machine will then automatically encode the following number and feed this transponder forward.

This will continue counting up or down continuously, until the number reaches 9,999,999 or 0 respectively. To manually stop the system simply push the *STOP* button on the display before removing the final transponder you require.

External Input (Keypad / Barcode Scanner)

You can connect a USB number keypad (supplied) or USB barcode scanner (optional) to the Chip2Go as an external input device.

Any USB Keypad may be used, the supplied one was chosen for it's inclusion of a backspace, however a * will also act as a backspace. Only the barcode scanner available directly from race result is officially supported, this also includes the mount to attach to the unit.

To use an external input press *Switch Mode* and select *external scanner keypad*.

Simply enter the desired number with the keypad and press enter or scan the corresponding barcode to encode the transponder. The system will display the previous number which was encoded on the display.

If using a barcode scanner the barcode must be the correct format. All bibs purchased from race result with the standard barcode will be compatible, if using your own barcodes then check the [Barcode Format](#) is correct.

Barcode Format

Chip2Go machines will only read barcodes using Code 128 standard, other barcode formats will not be read correctly.

Barcodes must use a start code with "#" followed by the bib number followed by "~", the bib number will stop being read at the ~ character and any characters after this point will be ignored. If ordering bibs directly from race result, ensure to request Chip2Go barcodes to be included.

You can also use barcodes with numbers ONLY, the whole number will be used as the bib number.

For example:

301

#301~

#301~PARTY

#301~~12345~~

will all return bib number 301.

Using the following will return nothing:

#301

#301PARTY

Other Barcode Types

Chip2Go machines can work with any type of 2D barcode (such as QR codes), but the scanner and returned data must meet certain requirements. No official support is given for third-party device uses or barcode setup.

Requirements:

- Scanner uses USB HID specification
- Barcode is in the format #1234~ as per the standard [Barcode Format](#)
- Data returned from the scanner is terminated with the enter key

USB Stick Chip File

From firmware version 1.0.0 the Chip2Go has the ability to read a chip file from a USB drive, this file should be stored as a .txt file.

Within the file numbers can be entered in different ways, different methods should be separated by a new line.

- Simple number entry e.g. 1
- Number range e.g. 1-100
- Comma separated numbers e.g. 1,2,3

To use the chip file simply insert the USB drive in to one of the ports of the Chip2Go and press *Switch Mode* and select *USB List File*. This will then list the available .txt files which you can select.

Once the file has been opened all numbers in the file will be listed in the same order (some grouping may occur), so you can choose where in the list to start from in case of continuing a range or with multiple machines running. The Chip2Go will then encode all subsequent numbers in the file in the same order.

Transponder Check Antenna

The check antenna on the front side of the Chip2Go can be used to check the chip code of any passive race result transponder.

Simply hold the transponder in front of the check antenna and the chip code will be displayed at the bottom of the display.

If 2 or more transponders of the same code are detected then "*Number x 2*" will be displayed.

If 2 or more transponders with different codes are detected then "multiple tags" will be displayed.

Firmware Update

The current version is always shown in the top left screen corner.

How to Update

When running firmware is 0.9.9 or newer, the stick with the update must be inserted prior to boot and the machine will ask you whether to update or not. After installing the update, your Chip2Go will reboot and ask you again whether to update or not. Unplug the USB drive now, then abort the message. You may be asked to install 2 further updates, which you can't abort. After installing these updates, your Chip2Go is updated and can be used again.

Note: there must not be more than one firmware file on the USB drive. Also, make sure your drive is formatted as either NTFS or FAT.

Cleaning instructions

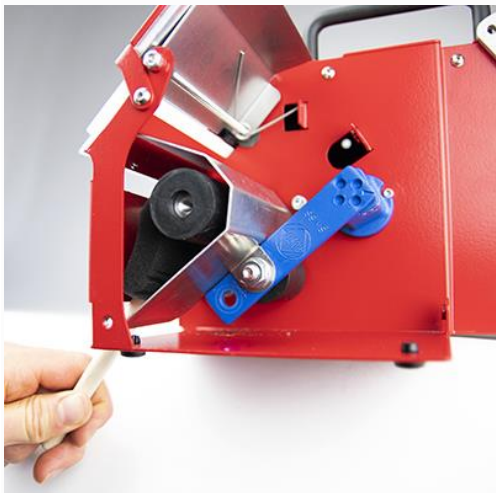
The rubber rollers inside the Chip2Go can collect dust over time which in return can lead to feeding issues. In this case the machine can be easily cleaned. For this purpose we include a brush with every Chip2Go.

To do so put the machine next to the edge of a table and power it up. Remove any tags that may still be in the machine.

Wet the brush slightly with some water or -in case of very greasy/oily dirt- some rubbing alcohol. The brush however must not be soaking wet in order to prevent any liquid from getting inside the machine.

Insert the brush into the lower slot as shown in the picture below. Putting it into the upper slot might cause it to be pulled into the machine and damaged in the next step.

Press the „feed“ button on the touchscreen so the rollers start spinning. Push the brush against the rollers and slightly scrub left and right. Repeat the procedure a couple of times depending on the amount of dirt and clean the brush in between.



The machine does not need to be disassembled. The picture is just to show how the brush is to be inserted.

If you need to use the machine immediately after cleaning you can let a paper towel drive through the machine several times to dry the rollers. Do not try to hold the paper towel with your hands since this might cause the towel to rip and get stuck in the machine.

Regulatory Information

Radio Transmitter (FCC Part 15)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio Frequency Interference Requirements - FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help

Radio Frequency Interference Requirements - Canada

CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Statement of Compliance - EU/ETSI

race result AG hereby declares that this radio equipment is in compliance with Directives, 2014/53/EU and 2011/65/EU.