

# Unichip RF Map Select Switch

This manual is written for the Unichip RF Map select switch.

This switch enables you to remotely select the 5 different maps on your Unichip Power Plug. \*\*It also gives you the ability to control any device that has a trigger input (i.e. electric gate, electric garage door, lights etc.) \*\*

PLEASE READ ENTIRE MANUAL AND FAMILIARIZE YOURSELF WITH IT  
BEFORE ATTEMPTING TO PROGRAM /ERASE THE REMOTES



## **When you receive your Unichip RF Map select switch:**

When you first power up the receiver with the RF Power UP (available from Dastek Power) you will see the red LED flash briefly, this means that it has started up, thereafter the green LED will flash constantly, which means that the unit is running (also referred to as the heartbeat).

In some cases, on initial startup, the receiver might go straight to pairing mode (*The green LED will remain ON*). It is always best to erase the receiver first to ensure only the desired remotes are paired with the desired receiver.

## **Erasing the Receiver:**

This will erase all transmitters from the receiver as well as the receiver mode.

Connect the receiver to the RF Power UP, and switch power on. With the heartbeat running, **let the receiver idle for 5 seconds or more**, this resets the count of power cycles and ensures you always start your count at 1.

Erasing mode is accessed cycling the power 8 times, starting and ending with ON. (This entire cycle should be done within roughly 10-15 seconds)

The receiver will now confirm that it has been successfully erased by turning both green and red LED's on and keeping them on for roughly 2 seconds. After which the heartbeat continues.

This concludes the erasing procedure of the receiver.

## **Pairing of the Receiver and Transmitter (FOR USE IN A VEHICLE):**

*Note: Like with the Unichip, the cycling of power should NOT be done with ignition on and off in a vehicle.*

To get the receiver into programming mode, the power should be cycled 3 times starting and ending with ON. (This entire cycle should be done within roughly 5 seconds)

The receiver will now confirm programming mode by illuminating the green LED on the connector side of the receiver. *The green LED will remain ON.*

The receiver is now in programming mode and ready for the buttons on the remote to be paired.

Now buttons 1 through 5 must be pressed in order of preference and then the receiver will confirm each button pressed by flashing the red LED and successful pairing of the 5 buttons by flashing both green and red LED's twice, and then automatically exit programming mode and continue showing the heartbeat.

Keep in mind that the receiver will pair the 1<sup>st</sup> pressed button with map 1, 2<sup>nd</sup> pressed button with map 2 and so on.

The unit is now ready for installation into the vehicle.

If additional remotes are required, the same process should be followed for every additional remote.

This concludes the pairing procedure for RF map select use, with Unichip Power Plug.

### **Pairing of the receiver and transmitter (FOR USE WITH TRIGGER DEVICES), gate motors etc.:**

To get the receiver into programming mode, the power should be cycled 3 times starting and ending with ON. (This entire cycle should be done within roughly 5 seconds)

The receiver will now confirm programming mode by illuminating the green LED on the connector side of the receiver.

The receiver is now in programming mode and ready for the buttons on the remote to be paired.

Now only button 6 or button 7 can be pressed to be paired on the receiver to be used for a trigger device. (gate motor etc)

The same steps should be followed for every additional remote.

This concludes the pairing procedure for RF map select use, with trigger device.

**Note:** the receiver is put into different modes depending on what buttons were paired. Buttons 1 through 5 will put the receiver into map select mode and button 6 and 7 will put it in trigger mode typically used for gate motors etc.

Buttons 1 through 5 is only for map select (in any preferred order) and buttons 6 and 7 is only for trigger devices like gate motors etc.

**It will not work the other way around!**

### **Using your Unichip RF map select switch:**

Once paired, operating the remote, you will see one brief flash of the LED (on the remote).

This indicates that the instruction given has been carried out by the receiver, i.e.

1. Instruction is given by pressing button 3.
2. Message is sent to receiver.
3. Receiver carries out instruction and replies to remote.
4. Remote flashes LED once to confirm success.

This should all happen in under 1 second.

The LED will only flash if there is a paired receiver powered on and in range. If this condition is not met, the LED will not flash. This does NOT mean the remote is not working, it simply means the instruction was sent but not carried out.

- All messages are AES encrypted (secure).
- This product meets the RF regulatory requirements applicable in territories worldwide, including Europe, Japan, China and the USA.

- Designed and manufactured using the latest technology in electronic design and manufacturing.

**Notes:**

If the receiver has been programmed for use with Unichip Power Plug, it must be erased and re-paired before it can work with a trigger device.

When the receiver has been programmed for use with a trigger device, it must be erased and re-paired before it can be used with Unichip Power Plug.

If the receiver was already successfully paired, and programming is attempted, the LED's on the receiver will indicate it as follows on first button push – Green LED ON and Red LED will flash twice, then automatically exits programming mode.

It is the customer's responsibility to acknowledge the warning that the remote will indicate by flashing the LED twice on successful button pushes\*, indicating that the Battery should be changed with a good quality replacement. (1 x CR2032 3v button/coin cell per remote) Battery available from Dastek Power as well as leading retailers.

DO not tamper with/modify the antenna of the Receiver in any way. This will negatively influence the performance.

**Battery Lifetime:**

Based on our calculations, on an average of 10 button presses per day, everyday, with a good quality CR2032 battery, the battery lifetime should be between 2 and 4 years.

These are calculated results and not tested results, hence the low battery indication.

**Mechanical assembly:**

Be very careful not to overtighten the screws in the event of battery or button replacement.

**Operating conditions/specifications:**

The receiver unit works with nominal 12 Vdc.

The receiver unit was developed for an IP69K rating and can be installed inside a vehicle cabin or engine bay, gate motor, garage door motor etc.

\*Successful button pushes, is when the remote confirms that the instruction has been successfully carried out by the receiver, flashing the LED.

\*\*Trigger input refers to an input on a device like gate motor/garage motor/lights that requires to be pulled down/shorted to ground to activate. The receiver can switch 300mA.if more is desired, a relay can be wired in.