



## HYDRODROP USER MANUAL REV. 1.01

Thank you for purchasing HydroDrop, Lowrider Hydraulic Wireless Remote Controller. The user manual will provide installation guidance. It is intended to be used with the HydroDrop wiring diagrams available at our website support page. If you're not comfortable performing the wiring installation, consider an authorized HydroDrop installer or a local hydraulic shop service.

### **Initial Preparation:**

1. Unpack your HydroDrop system. The following is included:
  - a. HydroDrop Base Station with 9 pin terminal block and 10 pin terminal blocks connected.
  - b. HydroDrop Remote and rubber bumper case.
  - c. High Current Driver Module
  - d. USB charging cable
  - e. Wrist lanyard
2. The HydroDrop handheld remote is shipped with a minimal battery charge. Charge the battery fully before use.
  - a. Connect included USB charging cable to a USB adapter. An iPhone or Android AC adapter with USB output will work fine.
  - b. First time charge time will take approximately 5 hours. Under normal use this will last 3-5 days before charging is required again.
  - c. A solid GREEN LED indicates the remote has reached full charge status.

### **HydroDrop Preparation:**

3. Download the HydroDrop wiring diagram that matches your hydraulic setup. Wiring diagrams can be found on the support section of our site [www.tx2rx.com/support](http://www.tx2rx.com/support)
4. Disconnect the ground cable to the hydraulic system.
5. Determine the location you would like to install the base station. If you hide your Base Station in the trunk keep in mind the access to the base station rocker control switches. The rocker control switches provide FRONT/REAR up and down functionality.

## HydroDrop Wiring Outputs (Solenoids and Dumps)

6. Disconnect the front panel switch wiring at the terminal block located in the trunk. There are normally 8 wires, this can vary between vehicles. Leave the front panel +24V wire connected. This provides voltage to the switch panel when HydroDrop is not being used, allows normal operation.
7. Using the appropriate HydroDrop wiring diagram, connect each of the wires removed from the terminal block to the Base Station [CONTROLLER] 9 pin terminal block. (Note \* Pin # 1 not used)

### Wiring CONTROLLER side:

- Pin 1 : Not Used
- Pin 2 : Front Left Up
- Pin 3 : Front Left Down
- Pin 4 : Rear Left Up
- Pin 5 : Rear Left Down
- Pin 6 : Front Right Up
- Pin 7 : Front Right Down
- Pin 8 : Rear Right Up
- Pin 9 : Rear Right Down

8. Using the appropriate HydroDrop wiring diagram connect the solenoids and dump valves to the correct [VALVE] 10 pin terminal block.

### Wiring VALVE side:

- Pin 1 : 24 VDC (toggled switched voltage source, 10A fuse)
- Pin 2 : High Current Driver Module – Blue Wire
- Pin 3 : Front Left Down
- Pin 4 : High Current Driver Module – Orange Wire
- Pin 5 : Rear Left Down
- Pin 6 : High Current Driver Module - Yellow
- Pin 7 : Front Right Down
- Pin 8 : High Current Driver Module - Brown
- Pin 9 : Rear Right Down
- Pin 10: Ground

## High Current Driver Module

- Pin 1 : 24 VDC
- Pin 2 : Front Left Up
- Pin 3 : Left Rear Up
- Pin 4 : Right Front Up
- Pin 5 : Right Rear Up
- Pin 6 : Ground

### Note \*

The RED wire on Power Module Assembly not used for standard wiring configuration.

After connecting solenoids, +24V and ground. Wrap the terminal upper and lower area with insulation tape. This will prevent accidental shorting if the HCDM is not secured in place.

## **9. PAIRING BASE STATION/REMOTE:**

Your HydroDrop base station and handheld remote have gone through the factory pairing process before shipping. As a user option you can manually select 1 of the 14 encrypted channels.

- a. Turn the +24V toggle switch to the ON position.
- b. Using a small object such as a paper clip, gently press the pairing button. The STATUS LED will begin flashing. This indicates the Base Station is ready for pairing.
- c. Select any button on the remote. Each button has 2 positions, select either UP or DOWN.
- d. Using a small object such as a paper clip press the remote AUX 2 button. The STATUS LED will blink 3 times indicating the pairing process has completed.

## **10. REMOTE LED COLOR SELECTION:**

The HydroDrop handheld remote LED colors can be changed from factory default. Each button determines the color, the UP/DOWN selection sets the brightness levels.

- a. Using a small object such as a paper clip press the remote AUX 1 button. The LED's will flash a few times indicating color select mode is activated.
- b. Press each button for the desired color and brightness.
- c. Using a small object such as a paper clip press the remote AUX 1 button again. The LED's will flash indicating the color selection is stored in memory.

## **11. Testing HydroDrop System:**

- a. Recheck your wiring!
- b. Before connecting your batteries GROUND cable, check all base station wiring.
- c. Once correct wiring has been confirmed, connect the batteries GROUND cable.
- d. Operate the panel switches and confirm normal operation for each switch.
- e. Turn the HydroDrop 24V toggle kill switch to the ON position. The Base Station STATUS LED should be flash several times then remain off.
- f. Using the handheld remote select the DOWN button (dumps) for each button. Verify the expected result occurred.
- g. Using the handheld remote select the UP button (pumps) for each button. Verify the expected result occurred.
- h. Verify the base station FRONT and REAR rocker switches are functioning as expected.

## **12. HydroDrop Setup Completed.**

- a. As part of the HydroDrop family we would like to add your ride to our website Lowrider build section. Please send photos and descriptions.

We appreciate your support!

Thank you,

The HydroDrop Team