

2010

WIRED

HDH

WIR-FSP-8-1

Installation and operation manual

www.wiredhdh.com

Wired Harnesses LLC 1-800-461-3414

LIMITED WARRANTY

Wired Harnesses LLC (Wired HDH), warrants each new product to be free from defects in material and workmanship, under normal use and service, for a period of two years from the date of delivery to the first user-purchaser, proof of purchase required.

During this warranty period, the obligation of Wired HDH is limited to repairing or replacing, as Wired HDH may elect, any part or parts of such product which after examination by Wired HDH discloses to be defective in material and/or workmanship.

Wired HDH will provide warranty for any unit which is delivered to the Wired HDH factory or designated authorized warranty service center for examination and such examination reveals a defect in material and/or workmanship.

This warranty does not cover travel expenses, the cost of specialized equipment for gaining access to the product, or labor charges for removal and re-installation of the product.

This warranty does not extend to any unit which has been subjected to abuse, misuse, improper installation or which has been inadequately maintained, nor to units which have problems relating to service or modification at any facility other than the Wired HDH factory or authorized warranty service centers.

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL WIRED HDH BE LIABLE FOR ANY LOSS OF PROFITS OR ANY INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY SUCH DEFECT IN MATERIAL OR WORKMANSHIP.



SPECIFICATIONS

GENERAL.

Input Voltage..... 11VDC to 16VDC.
 Polarity Negative ground only.
 Operating Temperature Range..... -30°C to +65°C.
 Standby Current..... Less than .5 ampere

Dimensions:

Keypad

Height..... 3/64" (0.12cm)
 Width..... 5 -1/2" (13.97cm)
 Length..... 1-3/4" (4.45cm)
 LED Color.....Blue
 Button press rating.....1000000
 Water resistance.....Yes
 Chemical resistance.....Yes
 UV Resistance.....Yes

Control Unit:

Handling Current..... 40 amperes (nominal) (TOTAL with all outputs at rated current).
 (13.6V battery)
 Operating Current Per Output..... 5 amperes (nominal)
 Height..... 1-3/8" (3.49cm).
 Width..... 3.25" (8.26cm).
 Length..... 6.75" (17.15cm). (with mounting flanges)
 Water resistance.....Yes (marine rated versions only)
 Chemical resistance.....Yes (marine rated versions only)
 UV Resistance.....Yes (marine rated versions only)

Connection Harness:

Length..... 5' (152.40cm)
 Shipping Weight..... 1lb

Control Unit SPECIFICATIONS.

Operating Current..... 40 amperes (nominal) (TOTAL).
 (13.6V battery)
 Operating Current Per Output 5 amperes (nominal)

WIRED Harnesses LLC (WIRED HDH) Patent pending flat switch panel is the ONLY programmable Flat Switch Panel on the market that fits virtually anywhere in virtually any vehicle. Once the water/chemical proof, UV resistant Keypad is installed, each of the 8 buttons can be programmed as either (1) a sustained (a.k.a. on/off) button (like a rocker or toggle used to turn on/off fog lights) or (2) a momentary button (like a horn or winch in/out button) AND each button can be



programmed to be wired to work (1) all the time (a.k.a. battery direct) or (2) only when the ignition is activated (i.e. when you turn your key on). These settings can be changed back and forth at anytime and takes less than 10 seconds per switch/button. In other words, in one easy install you now have eight identical switches that can control anything you put on your vehicle without cutting multiple holes in your dash, without trying to match rockers, toggles, and/or buttons, and without the headache of rewiring a switch to make its functionality match the accessory.

The keypad is made of a high grade, UV resistant material that is naturally waterproof and chemical resistant. Blue LEDs above each switch signify when an output is on, and are used to help in the programming mode. Each switch is made with a stainless steel dome placed between layers of the keypad material and membrane circuitry, giving a great tactile feel and sound when pressed. The stainless steel dome allows each switch to be rated for 1 million button presses.

The control harness allows for quick connectivity between the keypad and the control unit. The harness extends to 5 feet allowing you to mount the control unit in an area that is easy to get to, so you can add accessories later with ease.

The control unit comes with mounting feet to allow easy mounting in your vehicle. An easy to read text area allows you to see exactly where each connection is made on the unit, and the quick connect harness plugs in easily, making installation of this product a breeze. The outputs of the unit are rated for 5 amps each, and will automatically shut down if there is an issue with the circuit. Once the issue is fixed, the output automatically comes back on and you regain power to your accessory. The control units has a built in low voltage protection circuit that will start shutting down outputs if the voltage drops below 11.5 volts for more then 2 minutes. This will help keep your battery charged and vehicle ready to start incase you leave an accessory on.

All in all, The Flat Switch Panel's versatility and features makes it the last switch panel you will ever need.

Need to know more, get all the tech info you can handle at www.wiredhdh.com.

5 WIRED HDH INSTRUCTION MANUAL

Congratulations on purchasing the last switch panel you will ever need! Before you begin, please make sure the following items were included with your switch panel:



For installation, you will need the following:

1. 7/16 drill bit
2. Drill
3. File
4. Soap and water
5. Wire strippers
6. Wire crimpers
7. Flat head screw driver

INSTALLATION:**STEP 1:**

To begin DISCONNECT THE NEGATIVE WIRE FROM THE BATTERY! Then locate a good location for your keypad. The surface can be flat or even slightly contoured. Check behind the panel where you intend to mount the keypad to confirm there are no computers, wires, or other items that could be damaged. Lastly, check to ensure you can route the Keypad Harness to the controller in the mounting location you choose.

**STEP 2:**

If possible, remove the panel where you will be attaching the keypad. This will help to ensure nothing gets damaged behind the panel while drilling.

STEP 3

Cut out the template in the back of this manual. Use the template to locate proper placement of the holes to be cut for mounting the Keypad. Mark the location of the Keypad hole using a marker.

**STEP 4:**

Using a 7/16 drill bit, drill holes side by side across the line. Then run the drill bit back and forth to clean out the small "bridges" left behind.

STEP 5:

Test fit the Keypad tail in the hole. **DO NOT REMOVE TAPE BACKING YET.** When the con-

connector fits, file off any remaining burs, the mounting surface must be free of all burs so they do not to show under the mounted keypad.



STEP 6:

Wash the mounting surface with mild soap and water to remove contaminants and waxes. Dry with a dry lint free towel.

**STEP 7:**

Place the Keypad tail through the panel and peel backing tape off the Keypad. Be sure to peel the area below the tail and do not allow the tail to stick to the Keypad during mounting.

Lightly place the Keypad on the desired location to guarantee satisfaction of placement. Firmly secure the Keypad by pressing down and smoothing out from the top to the bottom of the Keypad to prevent air pockets.

STEP 8:

Locate an area to mount the Control Unit. (Marine rated versions can be mounted in the engine compartment. Non-marine rated versions should be mounted inside the cab of the vehicle.) The Control Unit should be placed in an area that is easily accessible and can be mounted by using the provided wire ties or screws.

Ensure the Harness will reach between the Keypad and the Control Unit.



Once the Control Unit is mounted, connect the Harness into the Control Unit's "Keypad input" connector. Then route the Harness up to the Keypad and connect it.

STEP 9:

Using the provided installation kit, mount the 40 amp circuit breaker to a place close to the vehicle's battery.

**STEP 10:**

Route the 10 gauge red wire from the circuit breaker to the Control Unit. Attach the red wire to the "POWER" terminal of the Control Unit and the circuit breaker using the supplied ring terminal.

**STEP 11:**

Hook black wire to "GROUND" terminal of the Control Unit. Run the black wire to a good chassis ground. These can normally be found near a side kick panel or near the fuse blocks.

STEP 12:

Hook the yellow wire to "IGNITION" terminal of the Control Unit. Route the wire to the interior fuse block (some vehicles do not have an interior fuse block and yellow wire may need to be run to the central fuse box in the engine compartment).

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Using the fuse tap provided, attach the yellow wire to the fuse tap, then find a fuse that controls something that only works while the ignition is on. This can usually be found for a stereo, cigarette lighter, or power point. **THIS WIRE MUST BE HOOKED TO A FUSE THAT IS NOT ACTIVE IF THE IGNITION IS OFF!**



Once the ignition fuse is found, pull fuse and put it in the fuse tap location closest to the terminals.

Put the 5 amp mini fuse included with the kit in the location furthest from the terminals, then put the fuse tap into the vehicle fuse block.

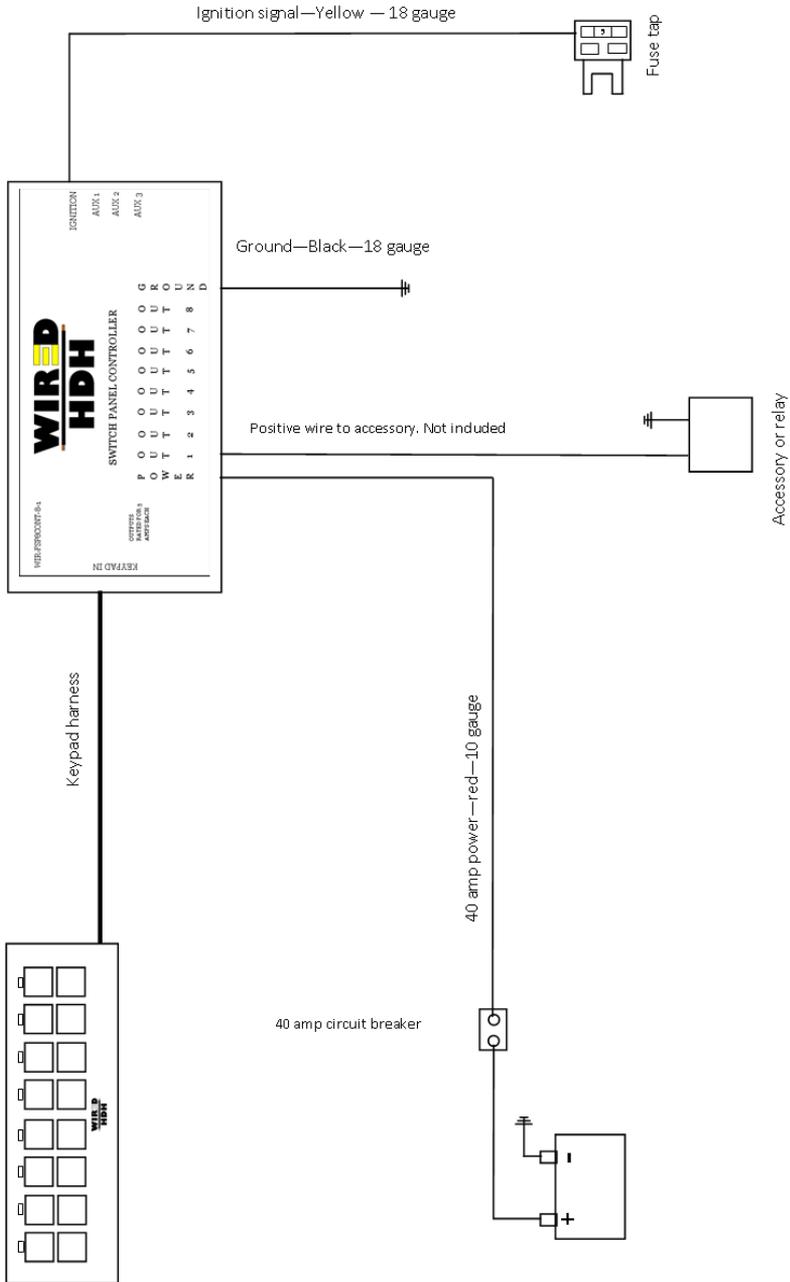
STEP 13:

If all connections have been made to the Control Unit, hook a short red 10 gauge wire from the battery to the circuit breaker using the supplied terminals.



STEP 14:

Finally, check operation of the unit. At factory default, with ignition off, all switches should be active and in the sustained mode.



This connection is the same for outputs 1-8

PROGRAMMING:

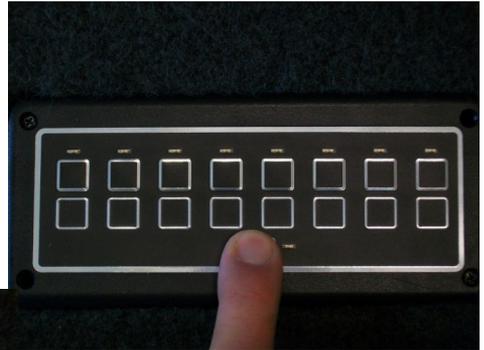
The WIRED HDH switch panel allows you to easily change when the switch works (battery or ignition) and how the switch works (sustained switch or momentary) using an easy programming feature accessed through a hidden button on the WIRED HDH switch panel. The switch panel can be programmed and reprogrammed an infinite number of times and it's memory will not be lost if you lose battery power.

Toggle or sustained:

Each individual switch can be programmed to be a momentary switch or sustained (toggle) switch.

Step 1:

With the vehicle's ignition off, press and hold the WIRED HDH logo for 5 seconds, or until you see the LEDs above the switches display a chase pattern. After this happens, you will see the "Programming" LED will be lit solid.

**Step 2:**

Once you are in the programming mode, simply pick the switch you would like to be momentary. The LEDs above the

switches indicate which function it is currently in. If the LED is on, it is sustained. If the LED is off it is momentary. Simply toggle between the two different modes by pressing the switch you would like to change. You can do this for one or all of the individual switches.

Step 3:

When you are finished, press the WIRED HDH logo once to exit programming mode and you are done!

**Ignition or battery:**

Each individual switch can be programmed to be active with the ignition only or active all the time.

Step 1:

Turn on the vehicle's ignition. WITHIN 5 SECONDS press and hold the WIRED HDH logo for 5 seconds, or until you see the "Programming" LED blink. YOU MUST PRESS THE PROGRAMMING KEY WITHIN 5 SECONDS OF TURNING THE IGNITION ON. SWITCH PANEL WILL NOT GO INTO A PROGRAMMING MODE AFTER 5 SECONDS AS A SAFETY FUNCTION.





Step 2:

When you see the “Programming” LED blinking, you can now pick the individual switch that you would like to change. NOTE: If the LED is solid, your ignition signal is not active and you will be programming the momentary/ sustained function. If the LED above the switch is on, the switch is active with the ignition only. If the LED is off, the switch is active with the battery all the time.



Simply toggle between the two different modes by pressing the switch you would like to change. You can do this for one or all of the switches individually.

Step 3:

When you are finished, press the WIRED HDH logo once to exit programming mode and you are done!



Troubleshooting:

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Nothing happens when I push a switch:

1. Is there at least 11.5 volts to the “POWER” terminal of the control box? If yes go to 2 If no check power connections at battery.
2. Is the keypad harness securely connected at the keypad and at the control unit? If yes, go to 3, if no, plug in keypad harness
3. Are you buttons all set to IGNITION? If your Not sure, Turn key on and try your switches. Do they work? If no, go to step 4
4. Call WIRED HDH for advanced tech support

I can't get into programming mode:

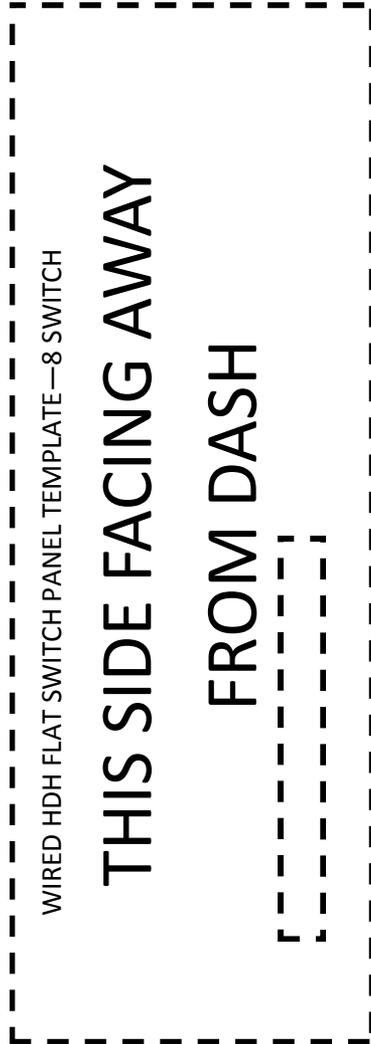
1. Is there at least 11.5 volts at the “POWER” terminal of the control box? If yes go to step 2, If no, see troubleshooting section “nothing happens when I push a switch”
2. Is there 12 volts at the ignition signal input? If yes go to step 3, if no go to step 5.
3. Is your ignition on? If yes—turn ignition off and check for 12 volts at ignition input. Is there still 12 volts at ignition input? If yes go to step 4, if no, try programming key again.
4. Check that ignition signal wire is hooked to a source that is only powered when key is in the on position
5. Press and hold the programming key for 10 seconds. If you do not get into programming mode, call WIRED HDH.

My switches light up, but my accessories don't turn on.

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1. Do you have at least 11.5 volts at the "POWER" terminal of the control box? If yes go to step 2, if no, charge battery and try again.
2. Do you have at least 11.5 volts at outputs when respective switches are in the "On" Position? If yes, check you accessories, if no go to step 3.
3. Pull wire out of terminal that should be in the "ON" state and check for voltage at terminal. Do you have voltage? If yes—repair short or add relay in accessory line. If no go to step 4.
4. Call WIRED HDH.

Switch panel template



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