ZEBSBOARDS.COM EZINSTALL Kit Instructions



Thank you for purchasing your EZInstall kit from zebsboards.com.

Before installing, please inspect the kit for any defects and read the instructions completely.

Do not connect the AC power cord until all connections have been made and double checked for proper installation!!

AC power can kill. Please observe the standard precautions when installing and using any AC power appliance.

Kit Contents

EZInstall Basic Kit

Left Panel Assembly – 2 solenoids, replay knocker assembly, 12V 20A DC power supply, 20A AC circuit breaker/power cord assembly, 12V 10A fused power booster module

Right Panel Assembly – 2 solenoids, shaker motor/controller assembly, 12V 8A fused power distribution board, high power 16 output Barebones Booster Board, PacLED64/breakout board assembly, night mode/quiet mode switch assembly

Solenoid Bar - 6 solenoids, power harness, aluminum mounting bar

EZInstall Standard Kit

Left Panel Assembly – 2 solenoids, replay knocker assembly, 12V 20A DC power supply, 20A AC circuit breaker/power cord assembly, 12V 10A fused power booster module

Right Panel Assembly – 2 solenoids, shaker motor/controller assembly, 12V 8A fused power distribution board, high power 16 output Barebones Booster Board, PacLED64/breakout board assembly, night mode/quiet mode switch assembly

Solenoid Bar - 6 solenoids, power harness, aluminum mounting bar

Light Bar w/Strobes – 5pcs 350ma RGB LEDs, 2pcs white LED strobe panels, plastic lens caps, mounting bar, harness, resistor board, 3' (1m) ribbon cable and power cable

EZInstall Deluxe Kit

Left Panel Assembly – 2 solenoids, replay knocker assembly, 12V 20A DC power supply, 20A AC circuit breaker/power cord assembly, 12V 10A fused power booster module, 2 high power Barebones Booster Boards

Right Panel Assembly – 2 solenoids, shaker motor/controller assembly, 12V 8A fused power distribution board, high power 16 output Barebones Booster Board, PacLED64/breakout board assembly, night mode/quiet mode switch assembly

Solenoid Bar - 6 solenoids, power harness, aluminum mounting bar

Light Bar w/Strobes – 5pcs 350ma RGB LEDs, 2pcs white LED strobe panels, plastic lens caps, mounting bar, harness, resistor board, 3' (1m) ribbon cable and power cable

12V RGB undercab light strips and harness, Start, Extra Ball, Launch button switch assemblies

Note – In all kits the solenoid bar and solenoid bodies/caps are live with 12VDC when unit is powered up!!

Part 1: Assembly Instructions

Step 1

Ensure that the 12VDC power supply is properly switched to the AC voltage for your location. The switch is located on the left hand side of the power supply and can be operated by gently sliding the switch to the proper voltage as shown on the label affixed to the power supply unit.



Determine the best mounting location inside your cabinet for the left and right panels. Panels should be located as close to the front of the cabinet as possible for the best effect and should have a clearance of $2^{"}-3^{"}$ (25mm – 50mm) from the top of the panel to the underside of the playfield television where at all possible.

Note – In all kits the solenoid bar and solenoid bodies/caps are live with 12VDC when unit is powered up!! Please leave adequate clearance from all metal and electronic parts in your cabinet to avoid short circuits.

The panels should be parallel to each other both vertically and horizontally to keep the solenoid bar secure and level in the mounting pockets.

Measure the distance between the solenoid mounting pockets to ensure that the solenoid bar will fit easily between the panels. If necessary, the bar can be carefully trimmed/filed to ensure a proper fit.

When the best location has been found, mount the left and right panels in position using 1" (25mm) mounting screws. Using longer screws may penetrate completely through your cabinet side. (Shown below on test jig).



Insert the solenoid bar into mounting pockets as shown below.



Step 4

Connect the 6 pin molex harness on the left side as shown below.



Connect the 2 pin molex harness (black/yellow) on the right side as shown below.



Step 6

Connect the 8 pin and 2 pin molex connectors to the high power booster board as shown. Ensure that the latch ramps on the harnesses align with the latch ramps on the output board connectors.



Mount The light bar in a suitable location and connect as shown below.

Attaching the ribbon connector to the light bar output board.....



Attaching the lightbar power harness to the output board.....



Attach the USB cable to the PacLED64 USB connector located at the back of the right panel and connect the cable to the computer USB port.



Part 2: Setup Instructions:

If you haven't already,

Download and Install the B2S Backglass Server as described here ...

http://vpuniverse.com/forums/forums/topic/313-b2s-backglass-server-installation-and-version-info/

Download and install the Direct Output Framework as described here ...

http://vpuniverse.com/forums/forums/topic/1468-directoutput-framework-r2/

DOF configuration files are included with the kit but it is highly recommended that you create your own account and configuration in the DOFConfig Tool to keep current on the latest additions to the feedback options, tables and settings.

DOF Configuration

Navigate to <u>www.vpuniverse.com</u>, login and navigate to <u>here</u>.

Select "Create Account" and set the parameters to....



Number of PacLED Devices = 1 LEDWiz Framework = DirectOutput

All other settings can be left to the default settings.

Select "Port Assignments" and set the parameters to.....

EZInstall Basic Kit Settings.....

DOF CONFIG TOOL Current Version: 2193													
Home	Port Assignments	Table Configs	Version History My Accou	Int Stats Combine Toys	Logout								
Device: PacLed 1 - directoutputconfigini20 •													
					Save Config	Generate Config Clear Fields							
					Shaker Motor								
					Min Intensity:	48 V Max Intensity: 48 V							
					Fan Min Intensity:	48 🔻 Max Intensity: 48 🔻							
Port 1	Flipper Left 🔹	Port 17	▼ Port 33	▼ Port 49	▼ Strobe Intens	sity 48 T							
2	Slingshot Left •	18	▼ Port 34	▼ Port 50	· · · · · · · · · · · · · · · · · · ·								
3	10 Bumper Middle Left 🔹	19	▼ Port 35	▼ Port 51	Contactor v	ariables							
4	10 Bumper Middle Center ▼	20	▼ Port 36	▼ Port 52	▼ Set Intensity an	d Duration to 0 if you don't want feedback to these events							
5	10 Bumper Middle Right 🔻	21	▼ Port 37	▼ Port 53	▼ Targets	Drop Targets							
6 Dant	10 Bumper Back Left 🔹	22	▼ Port 38	▼ Port 54	Duration:	Intensity: Duration: Intensity:							
7 Death	10 Bumper Back Center 🔻	23	▼ Port 39	▼ 55	▼ 60 ▼								
8 Deut	10 Bumper Back Right •	24	▼ Port 40	▼ Port 56	Shape vari	ables Revert Default							
9 Dort	Knocker •	25	▼ Port 41	▼ 57	• Strobe au								
10 Dort	•	26	▼ Port 42	▼ 58	MX 30	▼ 0 ▼ 0 ▼ 9 ▼ Circle3 ▼							
11 Dort	Slingshot Right •	27	▼ Port 43	▼ 59	Strobe AH MX 30	AL AT AW SHP							
12 Dort	Flipper Right •	28 Bort	▼ Port 44	▼ 60	▼ Right 50 Flasher								
13 Dort	Shaker •	29 Bort	▼ Port 45	▼ Fort 61	MX AH Left 100	AL AT AW SHP							
14 Port	Start Button 🔹	30 Bort	▼ Port 46	▼ 62	▼ Out Flasher AH	AL AT AW SHP							
15 Port	•	31 Port	47	▼ Fort 63	▼ MX 100 Left)▼ 20 ▼ 0 ▼ 19 ▼ Circle3 ▼							
16	Ť	32	48	64	MX 100	AL AT AW SHP ↓ 40 ▼ 0 ▼ 19 ▼ Circle3 ▼							
					Flasher AH	AL AT AW SHP							
					Right Flasher								
					MX AH Right 100 Out	AL AT AW SHP ↓ ▼ 80 ▼ 0 ▼ 19 ▼ Circle3 ▼							

EZInstall Standard Kit Settings.....

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Device: Parted I - drer				- colour	
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				Shaker Hotor Min Intonatys 18 ° Max Intensity: 18 °	
nt I et	Port	Port	Port	Fan Min Intensity: 48 V Max Intensity: 48 V	
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t 10 Bumper Middle Left	IS Port	34 Port	50 Purt	Strobe 48 V IPF Strobe MOLEF V Righter FF V Ledstrip Righter FF V	
t 10 Bumper Middle Cente	Port 5 Flasher Left	35 Port	SI Port	Contactor variables	
t 10 Bumper Middle Right	20 Port	Port	v Port	Set Intensity and Duration to 8 if you don't want feedback to these events	
t 10 Bumper Back Left	Port Part	37 Port	> Port	Targets Drop Targets	
nt 10 Bumper Back Center	V Port 5 Flasher Center	V Port	V Port	Uuration: 60 V Intensity: 48 V Duration: 60 V Intensity: 48 V	
t 10 Bumper Back Right	V Port	Port 40	V Port	V Ladetrin variables Revet Dufwit	
t Knocker	Port 25	Port 41		Stoba	
t	Port 5 Flasher Right	Port 42	- Port 50	VX AH 30 V AL 0 V AT 0 V AW 9 V Color White V SHP Circle	₽3 ∨
t Slingshot Right	V Port	Port 43	V Port 59	Strobe MX AH 30 V AL 91 V AT 0 V AW 9 V Color White V SHP Circle	e3 ~
t Flipper Right	Port 28	Port 44	~ Port	Right Fasher	
t Shaker	Port 29 S Flasher Outside Righ	ht v Port 45	~ Port 61	V Left AH 100 V AL 0 V AT 0 V AW 19 V SHP Girde3 V	
10 -	Port 30	Port 45	~ Port	Fisher	
t	Port 1	Port 47	V Purt 63	Left	
1	Y Port 32 Strobe	Port 48	✓ Port 64	v MX AH 100 v AL 40 v AT 0 v AW 19 v SHP Girde3 v Genter Tissher MX AH 100 v AL 60 v AT 0 v AW 19 v SHP Circle3 v	

EZInstall Deluxe Kit Settings....

Home Port Assignments Table Configs Version History My Account Stats Combine Toys Logout													
Device: PacLed 1 - directoutputconfigini20 Save Config Generate Config Clear Fields													
		Shaker Motor Min Intensity: 48 V Max Intensity: 48 V											
		Fan											
Port Flipper Left Port 17 Flipper Left Flipper Left Flipper Left	Port Start Button V Port V	Min Intensity: 48 Max Intensity: 48											
Port Slingshot Left V Port 18	Port Launch Button V Port V	Strobe Intensity 46											
Port 10 Bumper Middle Left • Port 19	Port Extra Ball V Port V	Contactor variables											
Port 10 Bumper Middle Center ▼ Port 20 5 Flasher Left ▼	Port ZB Launch Ball Port S2 Port	Set Intensity and Duration to 0 if you don't want feedback to these events											
Port 10 Bumper Middle Right ▼ Port 21	Port Port T	Targets Drop Targets											
Port 10 Bumper Back Left Port 22	Port V Port V S4	Duration: Intensity: Duration: Intensity:											
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Port Slingshot Right V Port 27	Port Port 43	Strobe AH AL AT AW SHP											
Port Flipper Right Port 28	Port Port 44	Right 30 V 91 V 0 V 9 V Circle3 V Flasher											
Port Shaker v Port 29	45 Port V Port	MX AH AL AT AW SHP Left 100 ▼ 0 ▼ 0 ▼ 19 ▼ Circle3 ▼											
RGB Undercab V Port	46 62 Victor	Out Flasher AH AL AT AW SHP											
15 Port	47 63 V	MX Left 100 ▼ 20 ▼ 0 ▼ 19 ▼ Circle3 ▼											
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