LEP1

customs

Arcade Cabinet Kit Assembly Guide v1.3a

For LVL 32J Cabinet

LEP1 Customs, LLC

Tel: 601-22-8220

Web: http://www.lep1customs.com

Email: sales@lep1customs.com

NOTES: FOR KITS NOT SPECIFICALLY LISTED BELOW (ALL PEDESTALS, ALL FIGHT STICKS, and LVL32J), the assembly follows the same general principle as the kits listed. The batons are glued in the slots, and when the glue is dry, the panels are aligned and screwed to the batons using the screws provided.

Intro: This guide is meant to show you how we put our kit together. If you look at the guide and decide you have an easier way to do it, by all means do it that way. Check the parts list to make sure you have everything before you begin. Always, always, always test fit the pieces and mind the screw hole positions before gluing or screwing parts together.
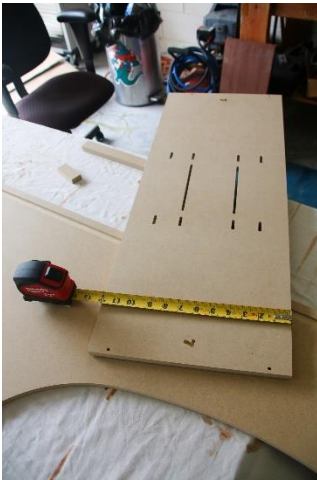
Parts List:

1. Screws - (36)
2. Left Panel – (1)
3. Right Panel – (1)
4. Top Panel with marquee slot facing down – 7 inches wide – (1)

5. Speaker Panel with marquee slot facing up – 5 ½ inches wide– (1)

6. VESA Monitor panel – 12 inches wide - (1) (Labeled with a number 7)
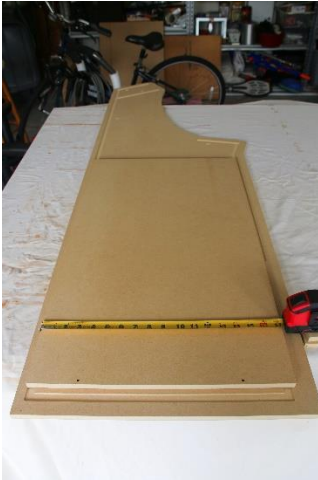

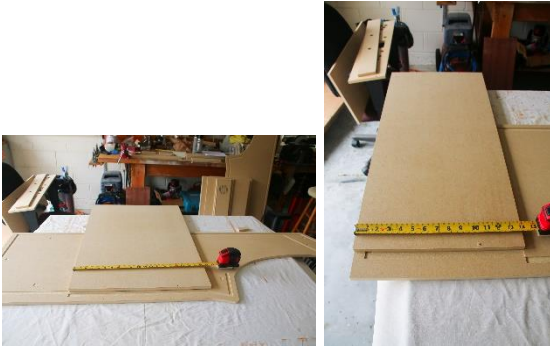7. Control Panel – 6 ¾ wide – (1)

8. Back Panel – (3) – Upper – 20 ½ inches wide, Middle – 20 ½ inches wide and Lower – 17 ¼ inches wide

9.   Bottom Panel – 17 ¼ inches – (1)

10. Blank Front Panel – (2) – Upper – 20 ½ inches wide and Lower – 14 inches wide

11. Front Panel with holes – (1) – 3 5/8 inches wide

12. Number 1 Baton 20 ½ inches long – (4)
13. Number 2 Baton 15 ½ inches long – (4)
14. Number 3 Baton 5 ½ inches long – (2)
15. Number 4 Baton 5 ½ inches long – (2)
16. Number 5 Baton 6 inches long – (2)
17. Number 6 Baton 19 ¾ inches long – (2)
18. Number 7 Baton 12 inches long – (2)
19. Number 8 Baton 12 inches long – (2)
20. Number 9 Baton 2 ½ inches long – (2)

List of things you may want to have on hand to complete assembly:

1. Wood Glue (Any good wood glue will suffice)
2. Sand Paper (60 Grit to sand interior supports to slide into support cavities (if necessary), and higher grit for finishing as you see fit; I used 220 grit)
3. Phillips Head Screwdriver (to screw panels to interior supports).
4. Paint Primer (MDF will soak up paint, be sure not to skip primer – make sure it is oil based and not water based)
5. Paint (Go nuts, whatever floats your boat)
6. Joysticks, buttons, wires, and game unit. This is all a matter of personal preference.
7. Marquee and Cabinet Artwork. Please see our customizable template options on our website http://www.lep1customs.com . We also offer affordable custom artwork design services. See our site for details.
8. Monitor - The cabinet can take up to a 32" TV or Monitor. There is 30" internal width to work with.
9. (Optional) Router with 1/16 inch slotting cutter to add t-molding onto the cabinet. I routed the slot

before beginning any other assembly.

NOTE: I added several other customizations which I have included in the appendix if you are

interested.

Assembly:

1. Test fit pieces together and note screw hole locations.

2. Glue numbered batons in the numbered slots and let dry – Use clamps if available to ensure a tight bond with between the two pieces of MDF.

(completed side with glued batons)

3. Prime and paint all the pieces prior to assembly if you are going to paint the cabinet

Starting to paint the stripes on the side panels – used Scotch 0.94 in. x 60 yds. Delicate Surface Painter's Tape with Edge-Lock

Completed Stripes

3. Pick a side and begin positioning the pieces in place. (Because I was going to use magnets to hold the top front panel on, I started on the bottom panel and continued up the back three panels, the top, speaker and finally the control panels and the lower front panel). Using the pre-drilled holes and the screws provided, screw the panels in place.

4. Carefully position the other side into place on top.
5. Screw panel pieces into place on this side.

6. I mounted the speakers onto the speaker panel and inserted the power switch on the rear of the case on the top panel where I had previously cut a hole to fit the switch.

7. Mounting he VESA Monitor mount panel is wholly subjective (steps 7-9), but I would unscrew and remove the back panel, attach the mount to the monitor and position in place inside the cabinet (marking where the mount will go on the sides.

8. Glue number 7 batons in place to support VESA mount and let dry.

9. With monitor removed, mount VESA mount into position and use provided screws to attach the VESA panel to the number 7 batons.

NOTE: This part of the assembly is especially difficult. It required two or three people to accomplish the positioning of the TV while attached to the VESA mount. I removed the top rear panel in order to be able to determine the location the batons needed to be glued while another individual held the TV and mount from the front. I drew lines for the approximate position of the batons. Then, when the TV and mount had been removed, I did precise measurements of the position of one baton and mimicked that on the opposite side panel. Pay special attention to getting the angle correct for both sides; this was painstaking.

The basic cabinet build is complete. I then installed the internals and completed hooking up all the peripherals and used a rubber mallet to apply the t-molding. Hint: at corners of the cabinet cut the take a utility knife and make some notches in the T-molding at the bottom of the "T", like so:

These notches allow more flexibility of the molding, allowing it to bend more at the corners, and STAY bent (prevents bowing). If the corner is an inside corner, you can simply put slits in the T-molding.

My completed arcade.

Customizable arcade artwork kits, and affordable custom design service available at

CUSTOMIZABLE
ARTWORK KITS

Completed customer kits:

Appendix

Additional Items I added to the cabinet:

Added 2 USB 3.0 Male to USB 3.0 Female AUX Flush Mount Car Mount Extension Cable for Car Truck Boat Motorcycle Dashboard Panel (3 Feet - 1 Meter) at location:

32" from bottom and 3 ½" from front of side panels (side panel layout below)

Used "Cabinet Door Magnets Jiayi 10 Pack Ultra-Thin Magnetic Door Catch Stainless Steel Drawer Magnet Catch for Sliding Door Closure Kitchen Cabinet Closer Cupboard Closet Door Magnetic Latches Hardware" - $18.99 from Amazon. On "Blank Front Panel – Upper – 20 ½ inches wide" to allow it to be removed and access interior for storage. Added Cabinet Furniture Shelf Pins to allow a shelf to be inserted into interior of the cabinet.

Added 5 mm Nickel Shelf Support Spoon (12-Pack) - (Home Depot - $1.98) for an interior shelf behind the Front Panel (side panel layout below)
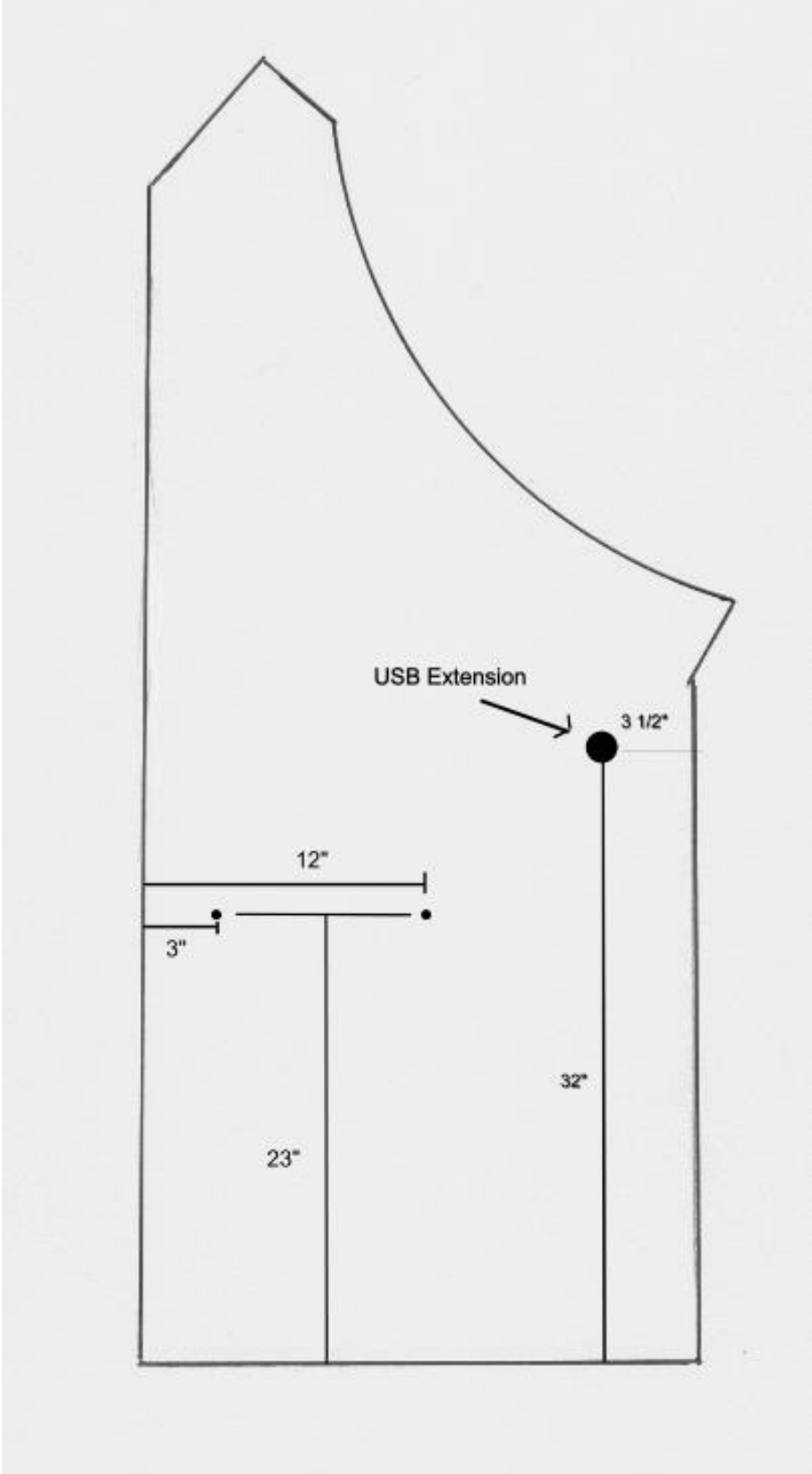

Laminated wood shelf cut to fit interior behind Front Panel and lay on Support Spoon – (Leftover from another project)

Drilled out the 24mm holes on the "Control Panel" and "Front Panel with holes" to fit my 28mm 1P, 2P and Coin buttons. I used a 28mm Fostner bit mounted on a drill press with a scrap block of wood below the panels. Then carefully aligned the drill over the existing hole and slowly enlarged the hole.

Side Panel Layout showing USB Extension and Shelf Support Spoon locations:

USB Extension

3 1/2"

12"

3"

32"

23"

Products used in build:

2 USB ports "USB 3.0 Male to USB 3.0 Female AUX Flush Mount Car Mount Extension Cable for Car Truck Boat Motorcycle Dashboard Panel (3 Feet - 1 Meter)" $8.90 each from Amazon one on each side of cabinet at location:

"Cabinet Door Magnets Jiayi 10 Pack Ultra-Thin Magnetic Door Catch Stainless Steel Drawer Magnet Catch for Sliding Door Closure Kitchen Cabinet Closer Cupboard Closet Door Magnetic Latches Hardware" - $18.99 from Amazon. On "Blank Front Panel – Upper – 20 ½ inches wide" to allow it to be removed and access interior for storage. Added Cabinet Furniture Shelf Pins to allow a shelf to be inserted into interior of the cabinet.

Easyget 4 Pcs/Lot 5V LED Illuminated Push Button 1P / 2P Player Start Buttons / 2X Coin Buttons for MAME / Jamma / Fighting Games / Arcade Video Games - $10.88 from Amazon

Powered USB Hub, atolla Aluminum 5-Port USB 3.0 Hub with 4 USB 3.0 Data Ports and 1 USB Smart Charging Port, USB Splitter with 5V/3A Power Adapter and Individual Switches - $19.99 from Amazon

LAIFUNI Dimmable Under Cabinet Lighting, RGB LED Light Bar, RF Remote Control Lamp, Multicolor Under Counter Lights for Desk, Room, Cupboard, Hallway, Shelf, Closet (12 Inch) - $22.99 from Amazon

4" Car Sound Speaker (Pair) - Upgraded Blue Poly Injection Cone 2-Way 180 Watt Peak w/ Non-fatiguing Butyl Rubber Surround 110 - 20Khz Frequency Response 4 Ohm & 3/4" ASV Voice Coil - Pyle PL42BL - $18.76 from Amazon

Kinter MA170 12V 2 Channel Mini Digital Audio Power Amplifier for Car or Mp3 Without Power Supply - $9.98 from Amazon

TMEZON 12 Volt 2A Power Adapter Supply AC to DC 2.1mm X 5.5mm Plug 12v 2 Amp Power Supply Wall Plug Extra Long 8 Foot Cord (for Amplifier) - $7.99 from Amazon

Forstner Drill Bits, Qibaok 17Pcs Forstner Bit Set Drill Bits Tungsten High Speed Steel Woodworking Hole Saw Set Wood Drill Bits Auger Opener for Woodworking, 15mm-40mm - $24.99 from Amazon

SanDisk 256GB Ultra microSDXC UHS-I Memory Card with Adapter - 100MB/s, C10, U1, Full HD, A1, Micro SD Card - SDSQUAR-256G-GN6MA - $40.99 from Amazon

Qenker 2-Player LED Arcade DIY Kit for USB MAME PC Game DIY & Raspberry Pi Retro Controller DIY Including 2X Arcade Joystick, 20x LED Arcade Buttons, 2X Zero Delay USB Encoder (Blue & Red) - $39.99 from Amazon

BIQU 15A 250V Rocker Switch Power Socket Inlet Module Plug 5A Fuse Switch with 5Pcs 16-14 AWG Wiring 3 Pin IEC320 C14 – $8.99 from Amazon

CanaKit Raspberry Pi 4 4GB Starter Kit - 4GB RAM - $99.99 from Amazon

Insignia 32" Class LED HDTV – Best Buy $101.64

KILZ Original Interior Multi-Purpose Oil-Based Wall and Ceiling Primer (Gallon) - $19.28 from Lowes

Wagner Flexio 3000 Handheld HVLP Paint Sprayer - $169.00 from Lowes

Behr Paint (Various Colors) - $30.98 (Gallon) from Home Depot

40 feet of ½ inch T-Molding - $49.70 from T-Molding.com

RetroArcade.us ra-track-b-2-usb-ps2 Track Ball 2 inch Arcade Game trackball for pc or mac - USB Connector _ $39.95 (shipping $7.77) from Amazon

RetroArcade.us ra-track-mount-2in-2 Arcade Game 2 inch trackball Metal mounting kit, Works with ra-track-ball-2inr2 - $12.95 (shipping $7.44) from Amazon