Minecraft Edition assembly guide

Move the original metal chassis, disc drive, cooling fan and front controls into the printed CustomXConsoles Minecraft enclosure.



Choose your donor

Original black 1 TB disc model

This guide follows the original 1 TB Series X with a disc slot. Keep the metal chassis and the optical drive from the same console together.

Galaxy Black 2 TB disc model

Compatibility with this revision is unconfirmed. The fastener table and frame drawings in this guide follow the original 1 TB model.

At the workbench

02 Choose what to print
03 Sort screws and tools
04 Remove the donor shell
05 Recover the front controls
06 Mount the lower chassis frame
07 Attach the intake foot
08 Fit the power and eject buttons
09 Mount USB, sync and disc drive
10 Reconnect cables and fan
11 Align front and rear panels
12 Secure the side walls
13 Test the assembled console

Already have your printed parts?

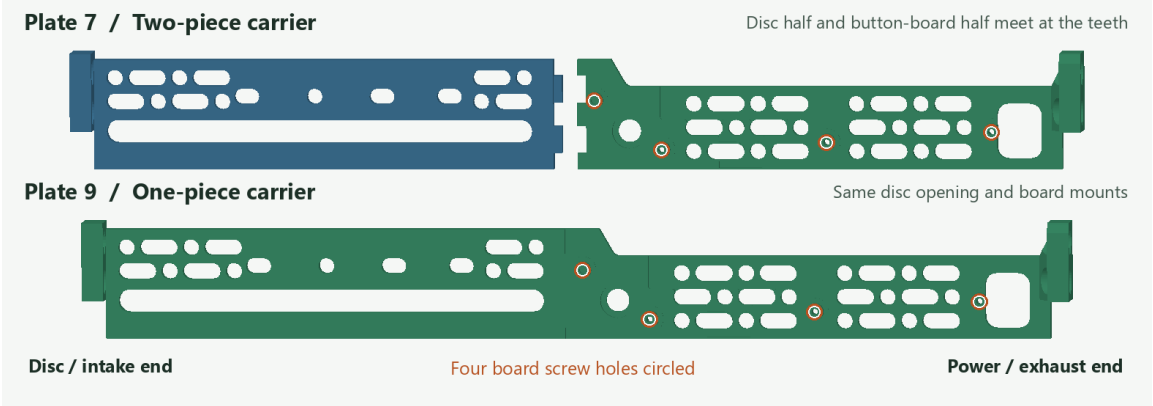
Select Power actuator on plate 7. If you have the original eject button, also select Optical eject plunger. Reuse the white power insert and check button travel on page 8.

Choose what to print

Print at 100% in the saved orientation. Plates 6, 7 and 9 use painted manual supports. Slice plate 7 and choose Line Type in Preview to see the support under the green sync button.

Plate	Printed parts	What to look for
1-4	**Front, right wall, left wall, rear**	One finished panel per plate.
5	**One-piece voxel fan cover**	Square outer corners. Print face down.
6	**Honeycomb foot and lower locator**	Earlier round-vent versions also fit.
7	**Front controls and carriers**	Green power, eject and sync buttons.
8	**White power-button center**	Seats inside the green Xbox power button.
9	**Optional one-piece front carrier**	Replaces both front carrier halves.
10	**Fan supports, choose one**	Original 9.4 mm, centered T 25.4 mm, offset 50.8 mm.
11	**Intake alignment tools, choose one**	Three hex pegs or legacy round pins. See p. 7.

Pick one front carrier



Two-piece carrier / plate 7

Print plates 1 through 7. The disc-slot half and the button-board half meet at the teeth. Print the white power-button center on plate 8.

One-piece carrier / plate 9

Print plates 1–6, the plate 8 center and the plate 9 rail. On plate 7, select the front USB carrier and the three green buttons.

1 Charcoal **2 Grass** **3 Earth** **4 Diamond** **5 White**

Fan support and optional wall stand

Fit one plate 10 support in PLA with power off. Print it in ABS for use. For a chair-facing disc slot under a desk, open the side-facing stand and guide in Project > Accessories > Others.

Prepare the bench

Gather the enclosure screws before opening the Xbox. Keep the original 1 TB disc console screws in labeled trays as you remove them.

Disassembly tools

T8/TR8 Torx hand driver, plastic opening pick, nylon spudger and blunt ESD-safe tweezers. Work on a clean ESD mat with a wrist strap.

Assembly tools and tape

Match each driver to its screw head. Have thin electronics-grade double-sided tape ready to secure a loose ribbon along its original route.

New enclosure hardware

Fastener	Qty	Where it goes
M3 × 6 mm machine screw	19	3 lower frame to chassis + 16 wall screws
M3 × 10 mm screw	4	Outer intake foot to lower frame
M3 × 8 mm self-tapping screw	1	Front USB/sync mounting tab to bracket

Original Xbox hardware

Original location	Quantity and length	Identification
Rear cover	2 × 7.4 mm	Under rear labels
Fan to chassis	1 × 10.5 mm wide-head	Center of original fan bracket
Drive vibration isolator	2 × 8.8 mm	Upper and lower mounts
Stock shell to chassis	3 × 7.4 mm	Store with the removed stock shell
Power / eject board	4 × 5.5 mm	All four go back through this board
Front USB enclosure	2 × 8.9 mm	Keep the original USB hardware
Fan lip support	1 × original green screw	Reuse from upper heatsink plate

> **Keep the USB fasteners with the module**
>
> The original Xbox screw joins the case base to the USB/sync module plate. The new M3 × 8 mm self-tapper goes through the front tab into the printed bracket.

Original Xbox screw photos

Galaxy Black screw photos

Open the donor console

Use the photo sequence for the model on your bench. Photograph cable paths, fan orientation and each screw location as you go.

1 **Shut down and disconnect**

Eject any disc, fully shut down the console and unplug power at both ends. Remove all cables and the expansion card. Wait at least 30 seconds after disconnecting power. Set the unit on its front on a clean ESD mat, with the base toward you.

2 **Release the rear cover**

Lift the rear labels enough to uncover both screws and remove them. Use a plastic spudger to release the two clips near the base, then the long edges. Tilt the loose bottom edge up and disengage the top tabs.

3 **Remove the fan and round foot**

Remove the stock fan's three T8 screws. Set the 10.5 mm wide-head center screw aside for the new case. Store the two shorter fan screws with the stock shell. Grip the fan plug at its body, unplug it and slide out the fan with its bracket. Lift the foot's latch and turn the round foot counterclockwise as viewed from underneath.

4 **Lift out the optical drive**

Remove the two isolator screws. Ease the isolator off both sides, keeping its pads with it. Unplug the drive's data and power connectors by their housings. Lift the drive out along its locating pins. Keep this console's drive with its original electronics.

> **The metal chassis transfers as a unit**
>
> Keep the power supply closed and the motherboard shields and heatsink together. Opening the PSU or disturbing the thermal interface is unnecessary for this shell transfer.

Original 1 TB teardown photos 2 TB Galaxy Black photos

Microsoft service and safety guide (14-digit model 1882)

Free the front controls

The two front cables have different latches. Open each retainer before pulling its tab. Keep both ribbon cables full length.

USB connector



Then lift the pull tab.

Power connector



Hold it in while lifting the pull tab.

5 **Disconnect both front cables**

Flip up the USB ribbon’s metal locking bar and lift the black pull tab. At the power cable, press its side latch and lift by its pull tab. Support any tape as you peel the USB cable off the chassis.

6 **Slide the chassis free**

Remove its three screws. Support the metal frame with both hands, slide it toward the top exhaust to free its guide pegs, then lift. Set the module on the mat and protect the exposed sockets and fins.

7 **Recover the power/eject and USB boards**

Free the ribbons from the old housing with a plastic pick. Keep all four short black screws with the power/eject board. Save the original USB enclosure screws as you remove them, then slide the enclosure free of its metal spring clip.

8 **Record the pair-button position**

Photograph how the factory pair/sync button and its optical window sit above the USB socket. Keep the donor button and window together. The green printed sync button goes in this position during assembly.

Original board and latch close-ups

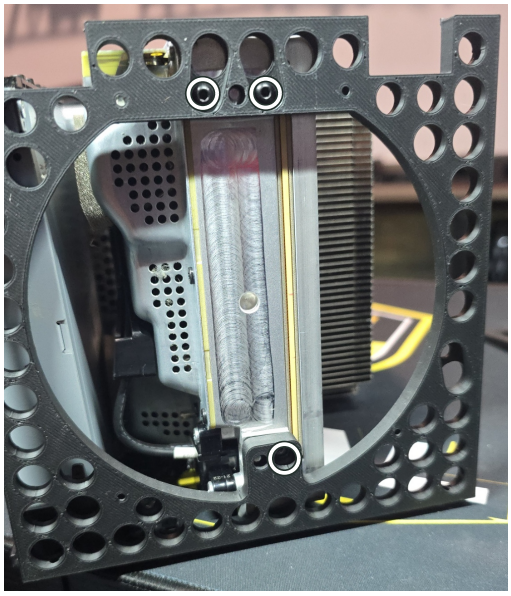
Galaxy Black board and latch close-ups

Mount the lower frame first

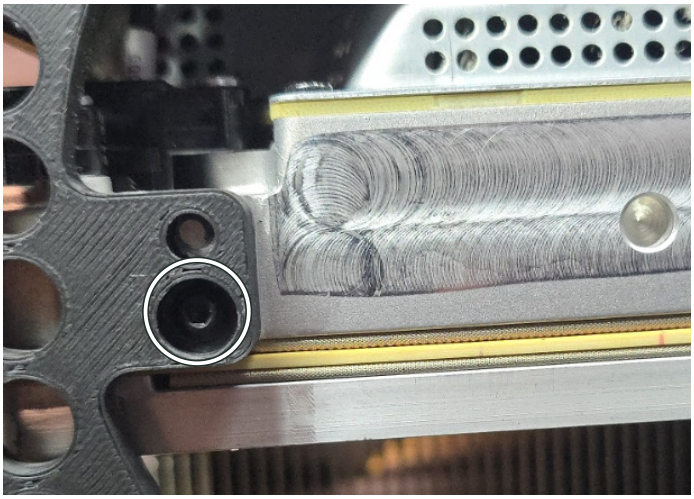
Start with the plate 6 lower chassis locator, the frame with the large center opening. The round-vent frame in the photos and the honeycomb frame in the drawing share the same three mounts.

9 Align the open frame with the metal chassis

Lay the unplugged chassis on its side and support its weight. At the intake end, align the two recessed screw seats near the disc-slot front and the single seat toward the rear ports.



Three seats around the center opening

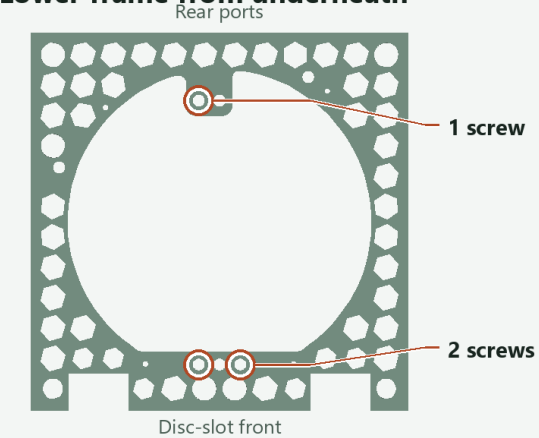


Single screw on the short inner tab

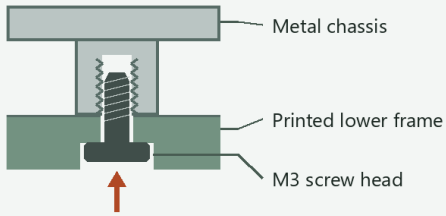
10 Fit three M3 × 6 mm machine screws

Insert them from underneath the printed frame into the metal chassis. Start all three by hand, then snug them with the frame flat against the chassis. The outer intake foot goes on next.

Lower frame from underneath



How each screw seats



3 × M3 × 6 mm machine screws

Insert from the intake end, through the frame and into the original metal chassis bosses.

Align and fasten the foot

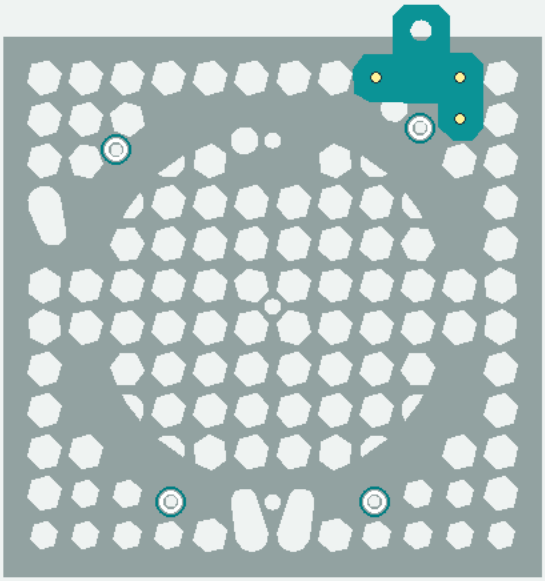
Support the unplugged chassis on its side with the lower locator already attached. Hold the outer foot against the locator with its four curved feet facing out.

11

Insert the alignment tool from underneath

Print the three-peg tool on plate 11 in PLA, pegs up. With the rear ports at the top of the underside view, fit its three hex pegs into the marked vents at upper right. They pass through the foot into the locator. Seat the flat grip against the foot.

UNDERSIDE / REAR PORTS AT TOP



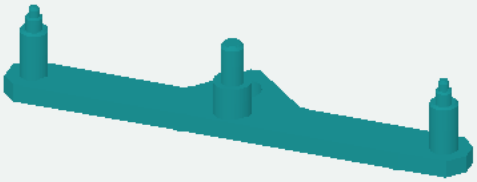
Dots mark the three pegs. Rings mark the four screws.

HONEYCOMB FOOT AND FRAME



Three tapered hex pegs enter matching vents.

OLDER ROUND-VENT PLATES



Start only the two front screws with this tool fitted.

12

Start the screws and withdraw the tool

Start all four M3 × 10 mm foot screws loosely. Pull the rear tab straight out, then snug all four by hand. For older round vents, use the round-pin tool, start the two front screws, remove the tool, then fit the rear pair.



Check the seating

Each screw head sits in its small recess beside a curved foot. The four feet support the console when upright.

Fit the power and eject buttons

On plate 7, the eject plunger extends 1.0 mm farther through the panel. The power button's square base is 1.00 mm lower on top. Measure 2.175 mm from the flat underside to a corner.



Green eject button in the loose carrier

13 Seat the eject button first

With the carrier loose, drop the green eject button into its round hole, press face forward. Fit the white 10 × 3 mm insert into the back of the green power button, then seat it.

14 Fasten the original power/eject board

Lower the long Xbox board onto the carrier over both buttons. Line up the four mounting points. Start all four original 5.5 mm T8 screws through the board into the printed carrier, then snug them by hand.



Four board screw positions. The third ring shows the open pilot.

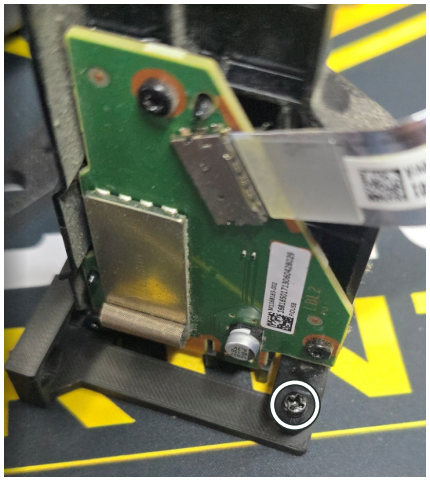
15 Check both buttons and seat the carrier

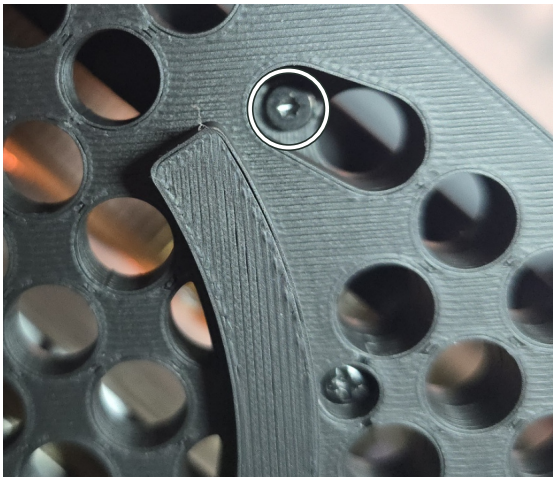
Press and release each button. Both should return freely. Seat the disc-slot end of the carrier against the lower frame, with the board end toward the fan. On the split carrier, mate the teeth of the two halves.

Factory power/eject board screws

Mount the USB and sync module

Peel the support from under the green button's flange and pull the center support out through the underside. Align its spring base with the module above the USB port, round tip facing forward. Press and release to check its return.



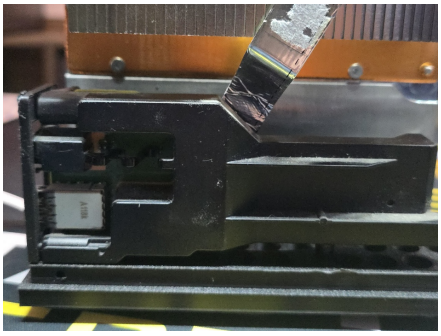


16 Fasten the front tab

Use one M3 × 8 mm self-tapping screw through the module's black front mounting tab into the printed bracket.

17 Attach the module plate

Hold the carrier plate flat against the case base. Insert the original Xbox screw from underneath to secure the base to the USB/sync module plate.



Ribbon clears the base



Plate 7 sync button



Sync sits above USB

18 Seat the optical drive

Check that the sync button returns freely and a USB plug seats. Lower the drive pegs into their guides and align its mouth with the disc slot. Fit the padded isolator around both drive edges and reuse its two original 8.8 mm T8 screws.

Factory drive and isolator

Fit your chosen fan support

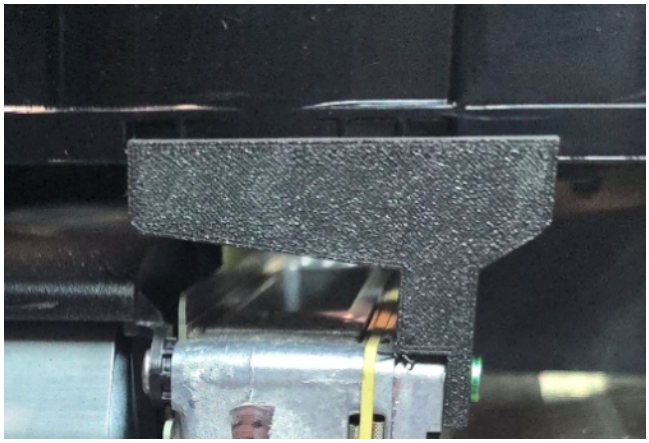
The original post, centered T and left-offset support use the same screw. Fit one in PLA with the console unplugged, then print the installed part in ABS.

19 **Connect the drive and front ribbons**

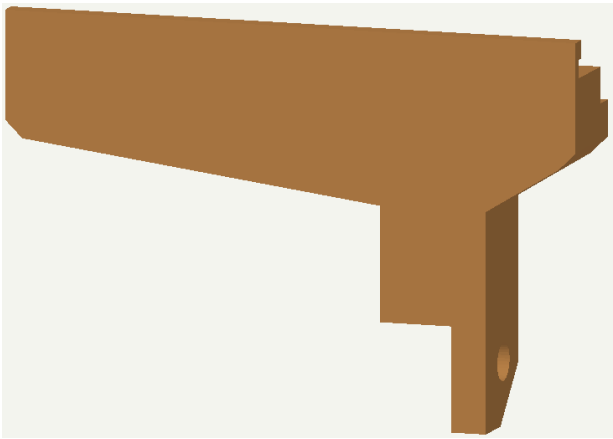
Seat the drive's data and power plugs. Reconnect the front USB and power/eject ribbons, close both latches and secure loose sections along their original routes.

20 **Locate the original green screw**

Find it beside the silver flange on the copper-colored heatsink plate. With the support's eye down and its stepped head up, pass the green screw sideways through the eye and back into its original chassis hole.



Fan housing resting on the long left arm



50.8 mm offset support, shown separately

21 **Check the support under the fan housing**

Face the high tooth toward the silver flange. For the offset version, the screw lug sits at lower right and the long arm reaches left. The housing should sit flat with the ribs clear and the blades turning freely by hand.

22 **Install the ABS support and reconnect the fan**

Seat the fan housing on the ABS ledge. Fasten the center of its bracket to the metal chassis with the original 10.5 mm wide-head screw. Reconnect the fan and route its cable in the guide. The cover attaches at the side walls.

Watch the support installation at 2:17

Wide-head center screw (red ring)

Align the front and rear panels

Seat the plate 5 cover over the fan, green pixel gem facing up. Fit its pocket over the front button-board carrier. Align the cover's four square corners with the frame before starting the wall screws.



Behind the front panel

- **Front fascia**
  Shown pulled forward.
- **Drive and button carrier**
  Disc slot at bottom, power at top.
- **Power, eject and sync**
  Green press faces point outward.
- **USB and pair-button carrier**
  At the opposite lower corner.
- **Cover and lower frame**
  Upper mounts are part of the cover.



Green eject button above the disc slot

23 Fit the front fascia

Guide the power, eject and sync buttons through their openings. Align the drive mouth with the slot. Start two M3 × 6 mm screws into the side of the top and two into the lower frame. Leave them slightly loose.

24 Fit the rear port panel

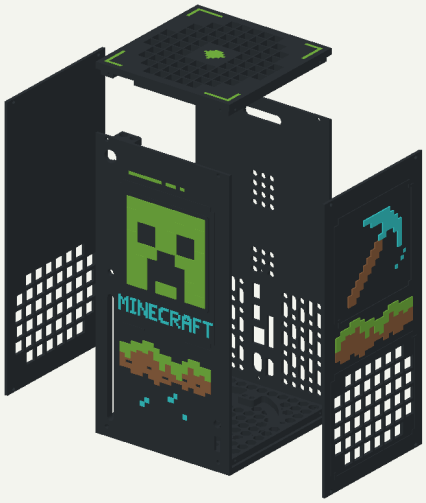
Match the cutouts to the sockets. Start four M3 × 6 mm screws, two at the top and two at the bottom. Check that the panel sits flat at both ends.

25 Check the openings, then snug the eight screws

Press and release all three buttons. Check that the disc slot is clear. With power disconnected, test-fit the front USB and rear plugs. Once the plugs seat fully and both panels sit flush, snug the screws by hand.

Secure the side walls

With the front and rear panels seated, fit the two vented walls. The drawing lifts the cover to show where it meets the carrier.



Side walls and one-piece top



Finished front and right side

26 Close the two side walls

Fit the pickaxe wall on the right and the diamond ore wall on the left, viewed from the front. Keep wires clear of the panel edges. Start two M3 × 6 mm screws at the top of each panel and two at the bottom. Snug all eight by hand.

27 Check the top and fan

The cover should sit flush along all four walls. Confirm that its eight side screws are snug. With power disconnected, turn the fan by hand and check that the blades and wiring clear the cover.

Test the assembled console

Start with the console upright, the intake and exhaust uncovered, and the exterior fully assembled. Carry out the unpowered checks first.

Before power	Account for 19 M3 × 6 mm, four M3 × 10 mm and one M3 × 8 mm self-tapper, plus the original hardware. Confirm the installed T-support is ABS. Check the feet, seams, fan, plugs and button return. Clear both vents.
Power and cooling	Connect the display and power. Press the front power button. Check the picture, audio, fan operation and airflow from the upper grille. A translucent lens should show the power light. If the fan rubs, stops or a thermal warning appears, shut down and unplug.
Disc drive	With the console running, load a known-good disc. Confirm the console recognizes it, then press eject. The disc should travel freely through the fascia in both directions.
Controls and ports	Pair a controller with the front pair button. Try the front USB port, both rear USB ports, Ethernet and the expansion card if used. Check that each plug seats fully through the panel.
If a test fails	Shut down and disconnect all cables before reopening. For a dead control, check the moving button and the board ribbon. For a blocked disc or plug, inspect the opening and seating. For fan noise, check the wire route, fan lip support and grille clearance.

For serviced model 1882 units covered by Microsoft's 14-digit guide, have a qualified technician perform the specified post-repair AC leakage test before customer return.

Microsoft post-repair checks **Original frame and parts**