

SOVOL SV08 M12 Inductive Probe Mount LJ12A3-4-Z/ AX



3DPrintDemon

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Summary

Supe up your probe!

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If you like & use my models please consider supporting my efforts with the button below.

Your support is what helps me continue to do this! Thank you!



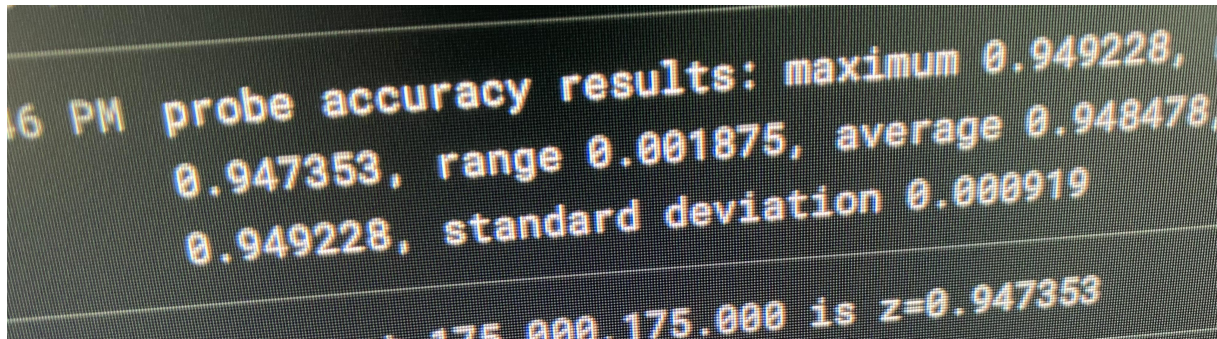
...Please be sure to hit like & post a make, I'd love to see your prints!

Add a highly accurate M12 LJ12A3-4-Z/AX inductive probe to your SV08!

This probe is a NPN NC probe. This means it is normally closed & will provide a "low" signal when triggered, so you'll see voltage when un-triggered that'll swing to ground (0v) once triggered.

Some stock probes seem to have a tolerance range that's slightly below optimal, this probe has been proven to be far more accurate in many applications.

These are my PROBE_ACCURACY results:



The stock probe cannot get these results!

PRINT IN ASA OR ABS!!! or better.

Orientate on flat end, standing upright, use tree supports.

NOTE: Grey PLA test print in photos above, dont print in PLA!

NOTE: The SV08 Supplies 24v to the probe!! Make sure your probe is 24v rated.

NEW PROBE OFFSET: X-16.8 Y8.7

Pinout here: https://github.com/Sovol3d/SV08/blob/main/Motherboard/Extra_PIN_definition.pdf

IMPROVE YOUR PROBING & MESHING!!

Amend your stock settings with these values, they're not complete sections in some cases so DO NOT just copy/paste over the top of your current sections! Double check the values & don't delete anything you shouldn't!

[printer] # THIS FIRST SECTION IS OPTIONAL TO SLOW THE MACHINE DOWN

kinematics: corexy

max_velocity: 700

max_accel: 8200

max_accel_to_decel: 4500

max_z_velocity: 15
max_z_accel: 500
square_corner_velocity: 5.0
[probe]
speed: 5
samples: 3
samples_result: median
sample_retract_dist: 5.0
samples_tolerance: 0.0125
samples_tolerance_retries: 10
[bed_mesh]
speed: 350
horizontal_move_z: 5
probe_count: 9,9
algorithm: bicubic
bicubic_tension: 0.4
split_delta_z: 0.0125
mesh_pps: 3,3
move_check_distance: 3
adaptive_margin: 5
[quad_gantry_level]
speed: 350
horizontal_move_z: 5
retry_tolerance: 0.0125
retries: 5
max_adjust: 10

YOU WILL NEED...

x1 M3 16mm toolhead mounting bolt (left).

x1 M3 6-8mm button head bolt (inside)

IMPORTANT NOTE: the head on this bolt must be less than 1.5mm tall or the probe WONT FIT!!

x1 M3 heat insert

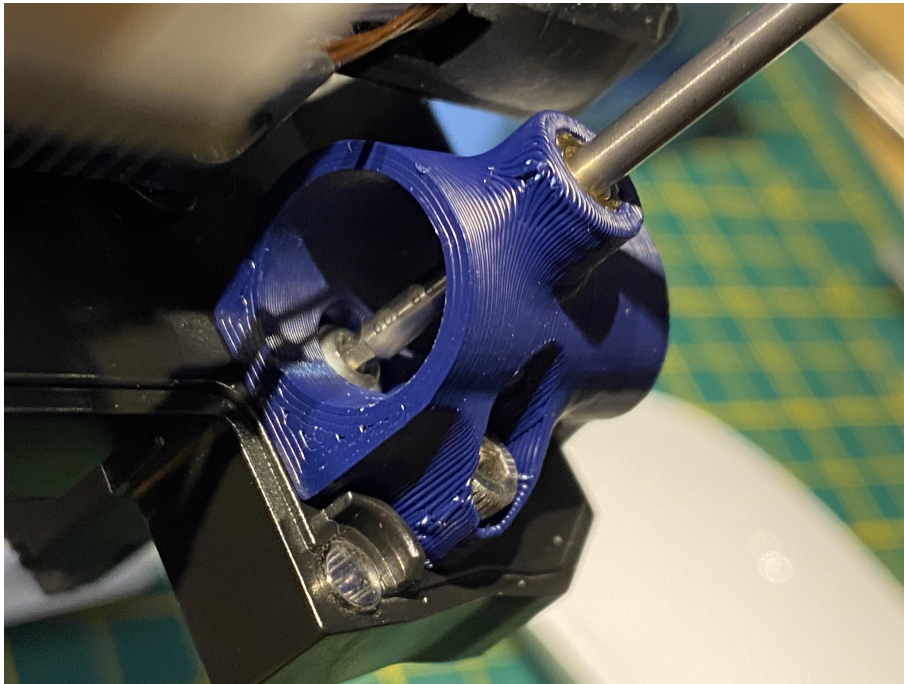
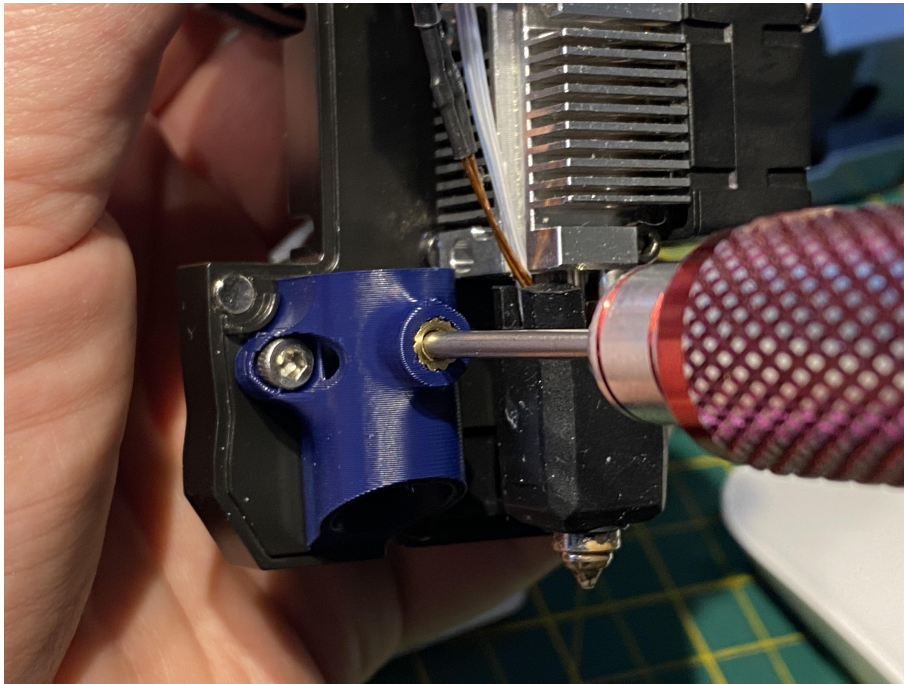
x1 M3 cap or button head 6-8mm bolt

THREADLOCK!!!

You must threadlock the bolts in place.

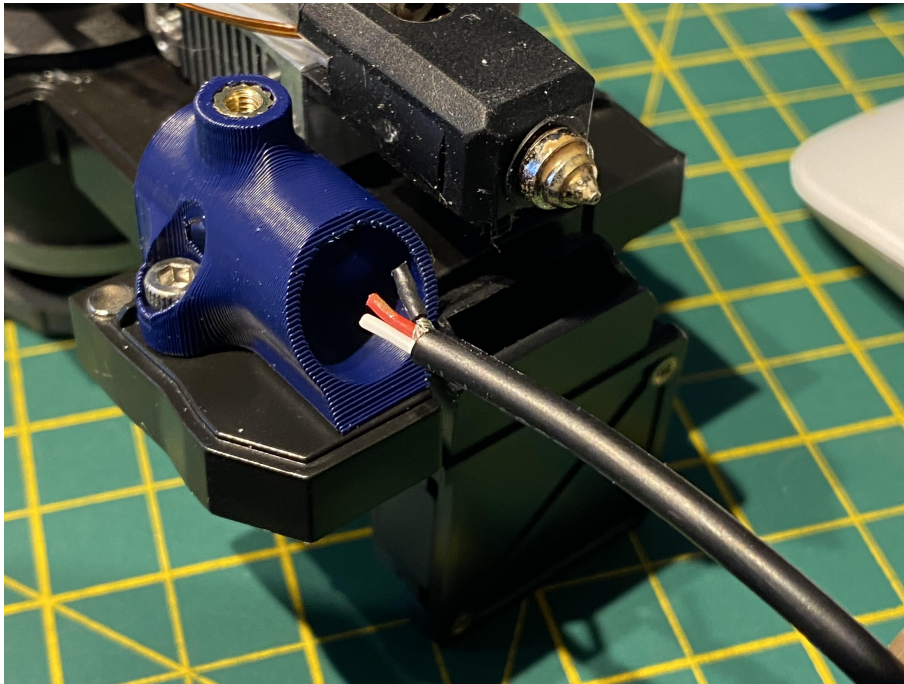
INSTALL...

Drop the M3 button head bolt into internal hole & pass a hex key through the M3 heat insert to access the bolt. Offer & locate to the toolhead & tighten making sure the external hole lines up with the toolhead mounting bolt.

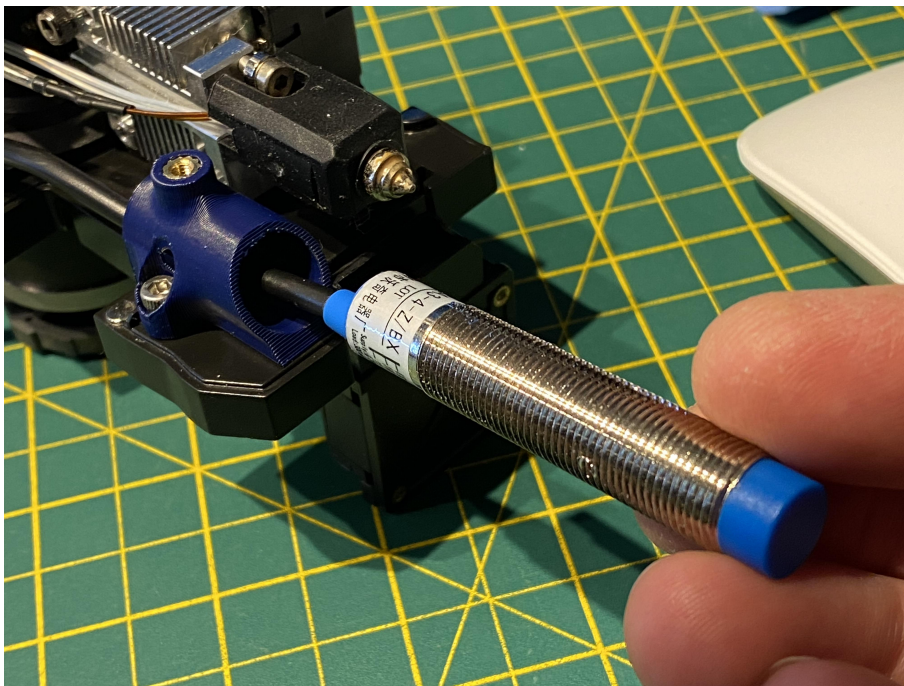


Add longer toolhead mounting bolt to secure.

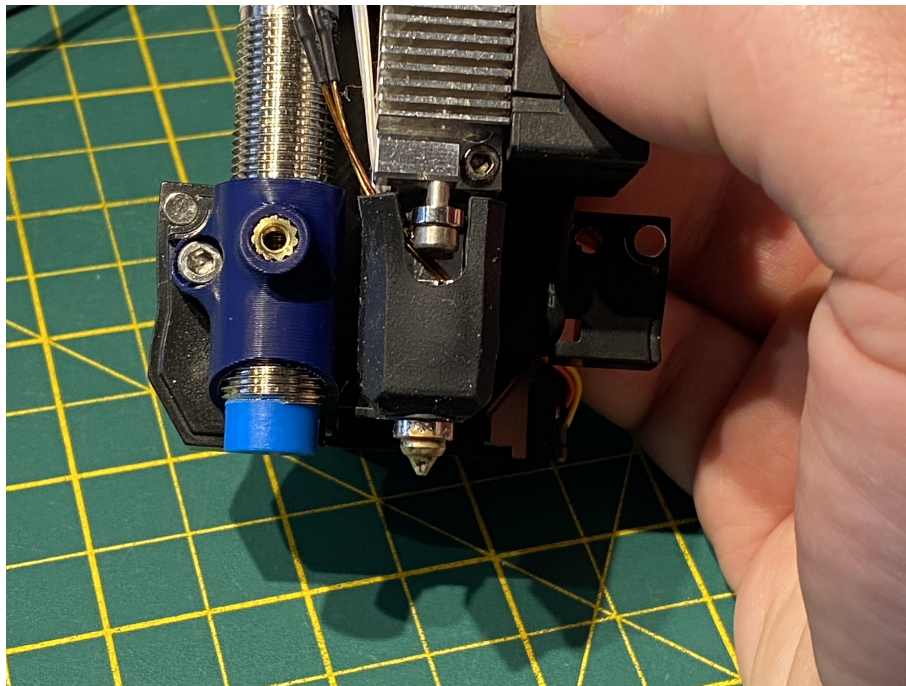
Pass probe cables through the mount from the bottom.



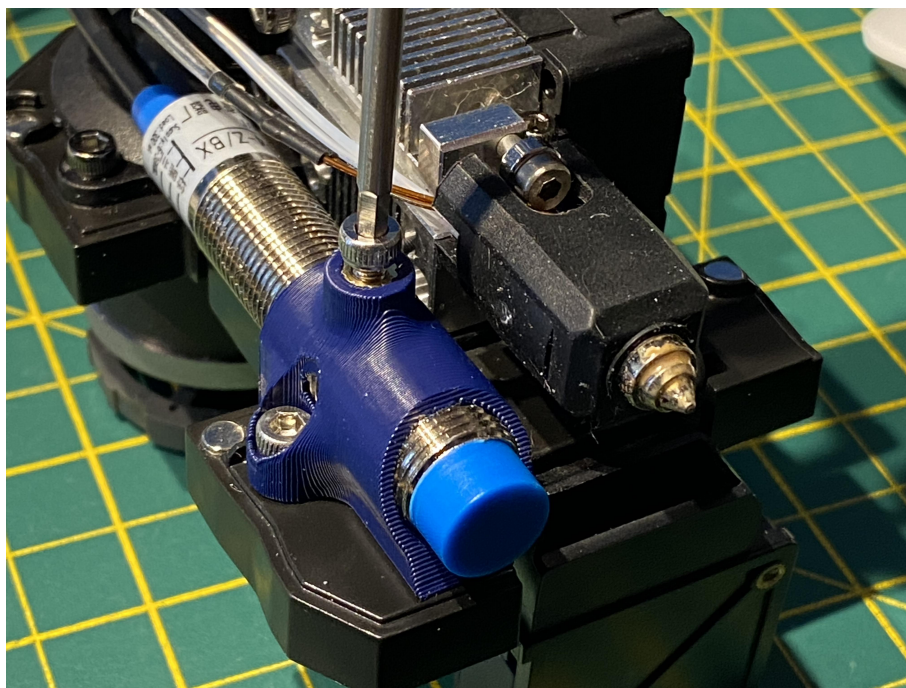
Followed by the probe...



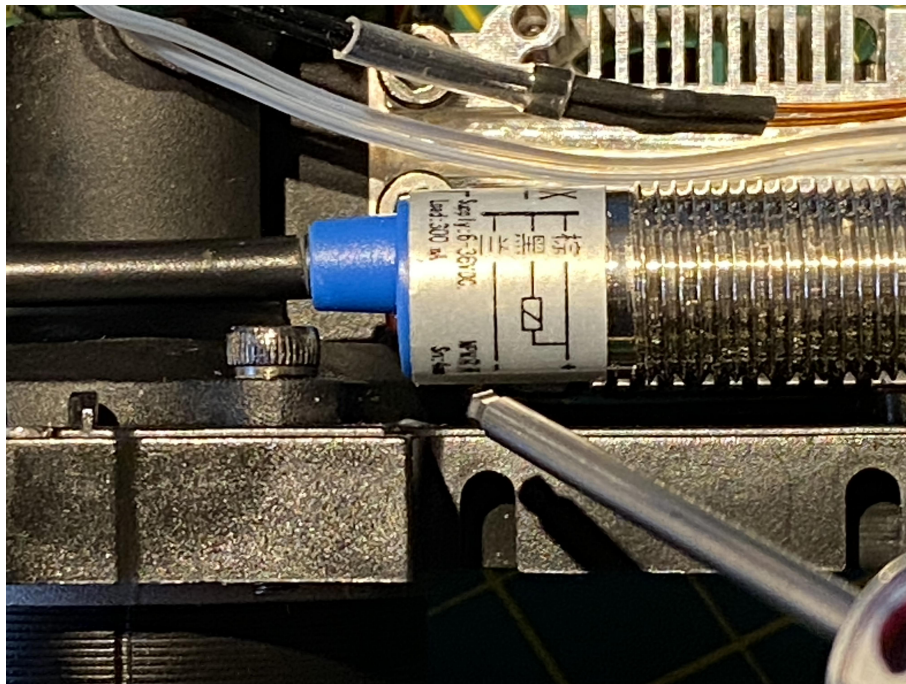
Align the probe level with the base of the toolhead bracket...



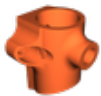
Add the retaining bolt & secure with THREADLOCK!



Make sure the top of the probe is NOT touching the extruder base.



Model files



sv08-m12-probe-mount-v11.stl

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