

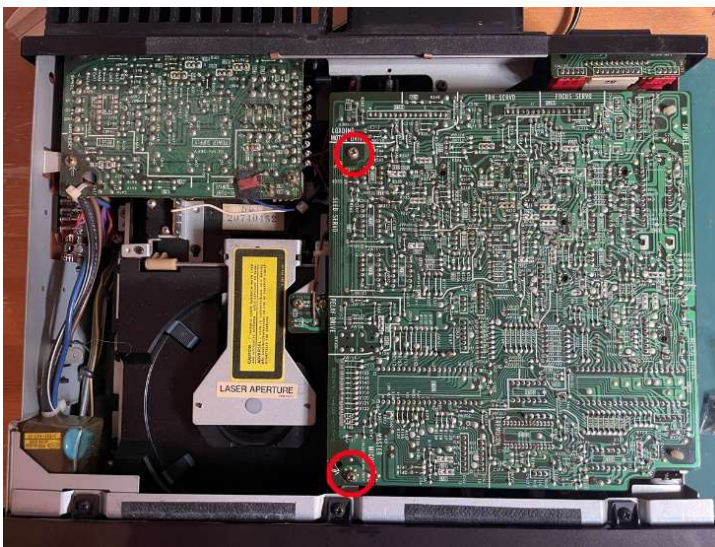


CDP-101 chucking mech. service

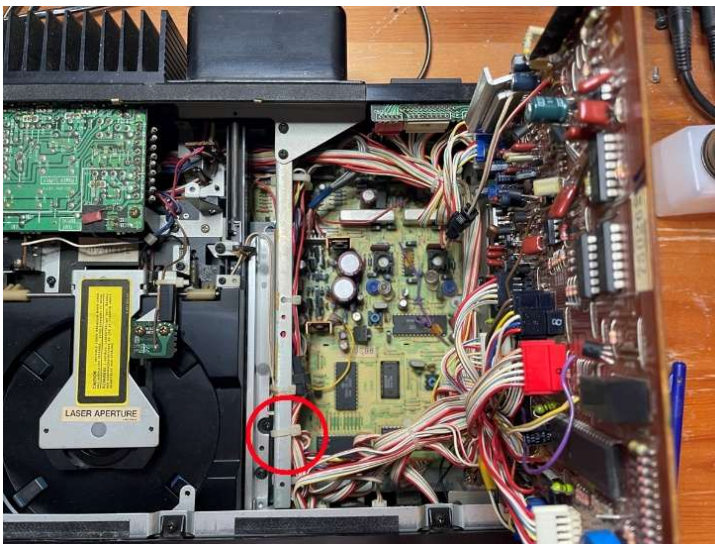
The chucking mechanism is partly obscured by the audio board. In order to access it the audio board needs to be loosened off facilitate this. In addition, it's also beneficial if the laser pickup assembly is removed, but not necessary.

Releasing the audio board

1. Ensure the player is the right way up.
2. Remove the 2 screws on the left hand side of the servo board (circled)



3. The servo board is hinged on the right. From the left side swing the servo board to the vertical position.
4. Running along the centre support bar are groups of cables held in place with cable ties. Cut the cable tie nearest to the front. (circled)



5. Put the servo board back down and refit the 2 screws from step 2
6. Turn the player over so is upside down
7. Lift the audio board up off its mounts and as much as possible, move it to the left to expose more of the chucking mechanism.

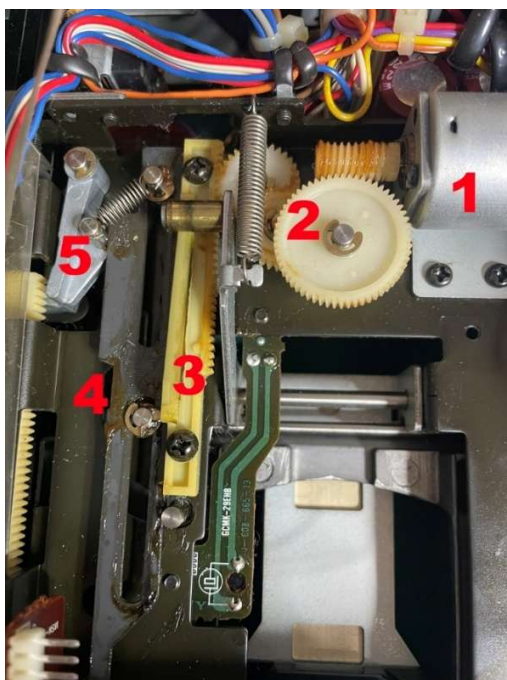


Removal and cleaning of the chucking mechanism

NOTE: The chucking mechanism is made up of a motor that drives a set of reduction gears, which drives a cam mounted on to a sliding runner, controlling a locking arm.

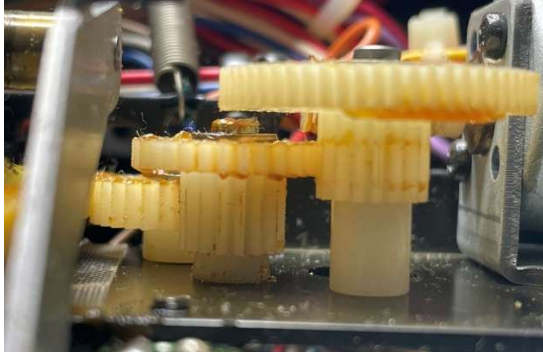
The sections of the chucking mechanism are:

1. Drive motor
2. Reduction gears
3. Cam ramp
4. Runner
5. Locking arm

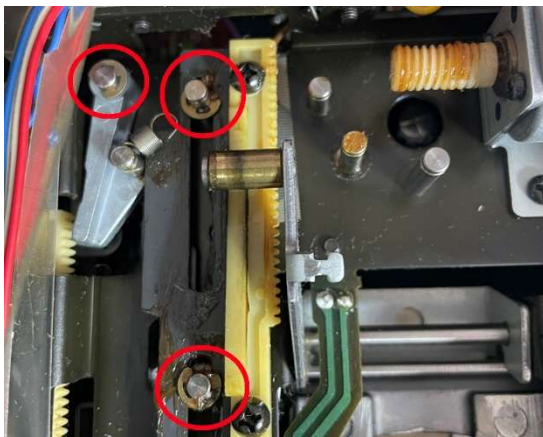


Removal procedure

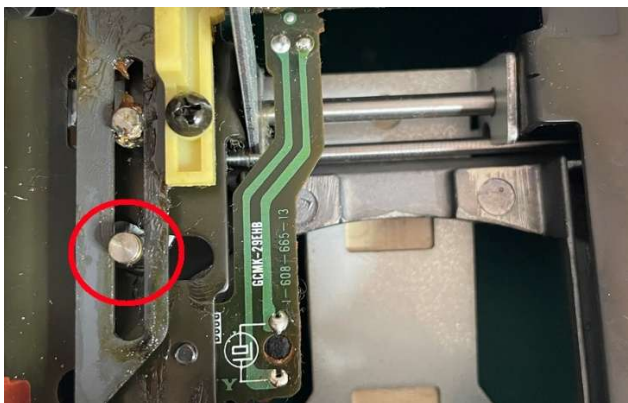
1. It is not necessary to remove the motor.
2. Disconnect the large spring covering the gears from the cam follower
3. Remove all 3 gears, noting their positions



4. Disconnect the spring between the runner and locking arm from the runner (circled)
5. Remove the retaining clips from the runner and locking arm (circled)

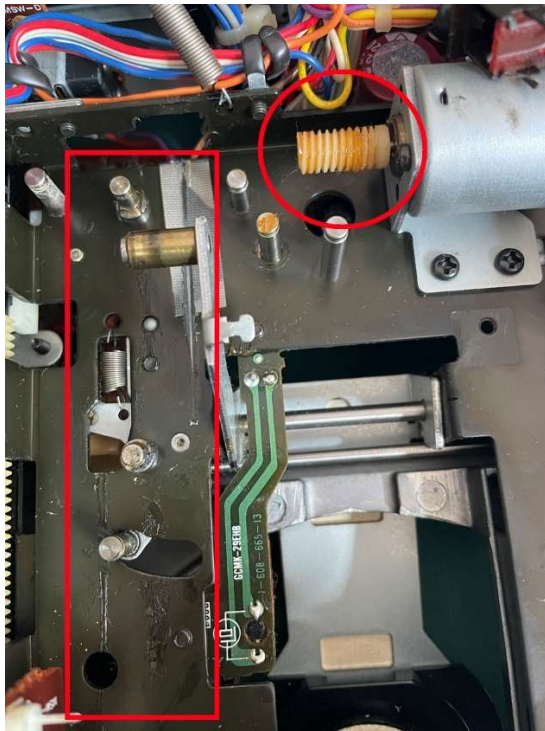


NOTE: Before removing the runner, be aware that it is held in tension by a follower (circled) when you remove it this will return to its resting position.

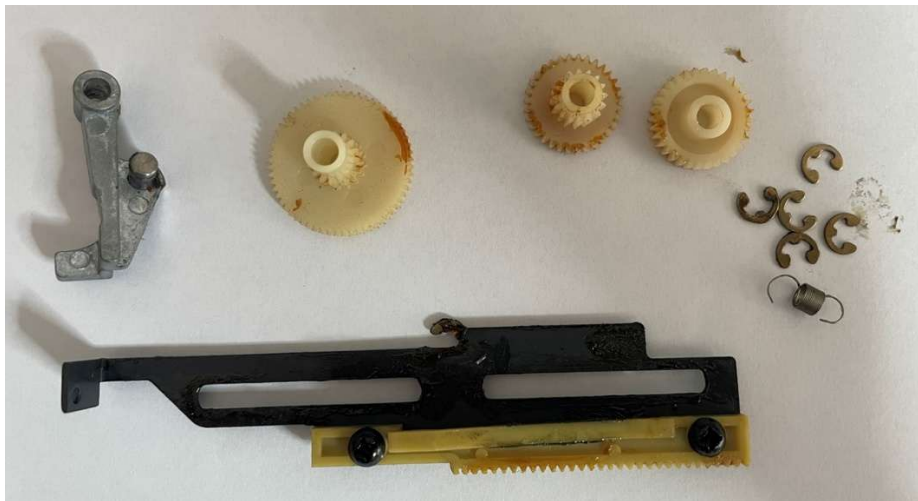


6. Remove the runner by moving it as far forward as possible so the cam ramp is at its lowest point under the follower above it, then lift it off from that point.
7. Lift off the locking arm.

8. Using IPA clean all the grease from any surface the runner rested on, and the spindles for the cogs, as well as the worm gear attached to the motor (circled)



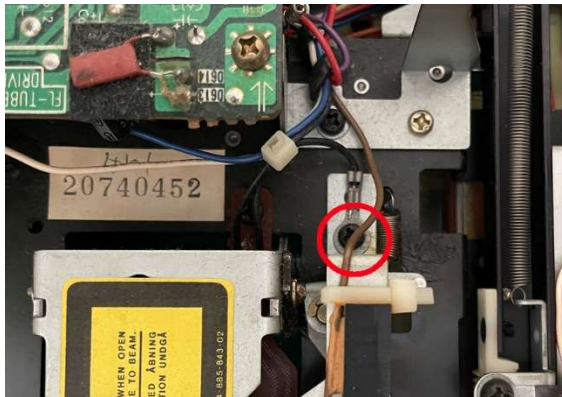
9. Clean the gears, cam ramp and locking arm



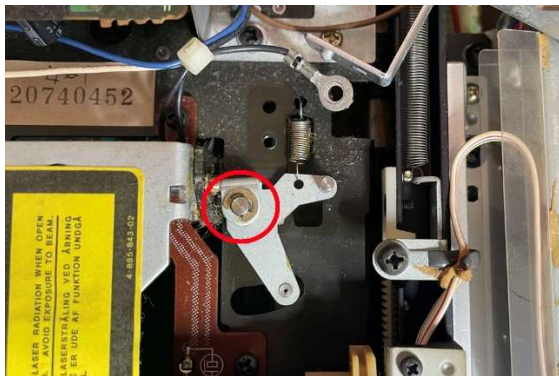
NOTE: The cam ramp has a rack gear attached, which can be removed to help with cleaning.

10. Temporarily fix the audio board back in place using a couple of its screws
11. Turn the player over to the right way up, being careful not to trap or damage the beep switch and limit switch which are free.
12. Remove the two screws holding the Servo board in place and lift up the board from the left edge by its hinge.
13. Pull out the CD drawer (it will be free to move)

14. Remove the disc sensor emitter board and bracket by removing its screw (circled)



15. Remove the retaining clip holding the lever arm in place and spring (circled)



16. Lift off the lever arm and put aside

17. Remove the right hand retaining clip holding the Clamp hinge in place.



18. Slide the clamp hinge out from the left and put aside

NOTE: You will not be able to remove the clamp itself.

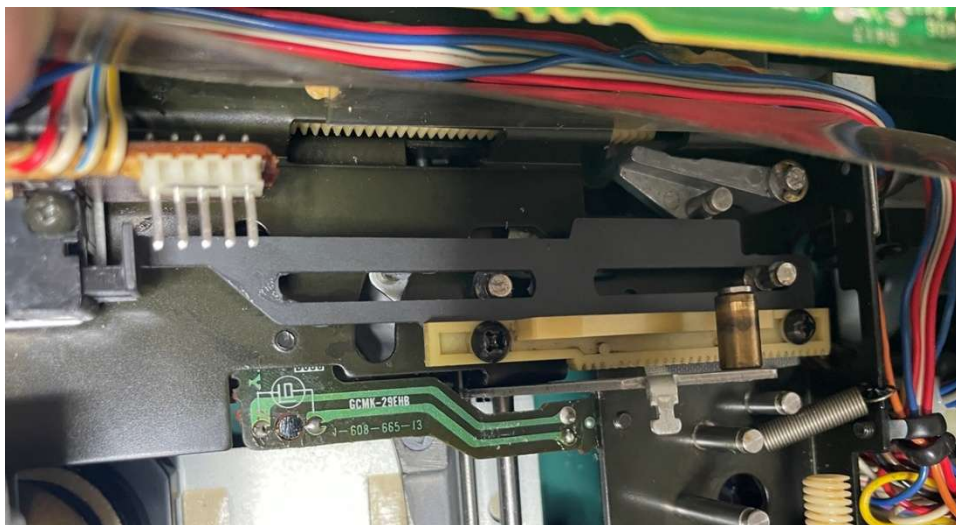
19. Using IPA clean all around the clamp hinge and lever arm spindle, as well as the clamp hinge axle and lever arm.

Reassembly

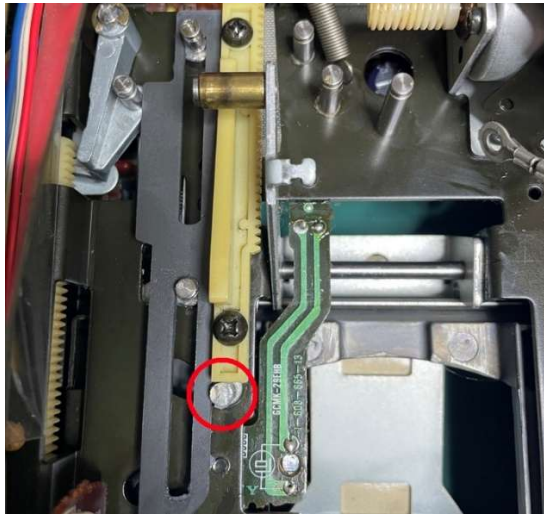
1. Refit the clamp hinge and retaining clips. Apply lithium grease to the hinge
2. Apply lithium grease to the lever arm's shaft and refit to its spindle with its retaining clip and washer.
3. Replace the spring between the lever arm and chassis
4. Replace the disc sensor emitter board. Ensure the grounding wire is included
5. Lower the servo board and fit its 2 fixing screws
6. Push the drawer back in
7. Turn the player over so it's upside down
8. Remove the 2 screws holding the audio board in and lift it out to the side
9. Apply lithium grease to the locking arm's shaft.
10. Refit the locking arm on its spindle and apply the retaining clip
11. Apply lithium grease to the runner's mounting posts and the underneath of the runner
12. Push the locking to the left so it engages the drawer. This is important later



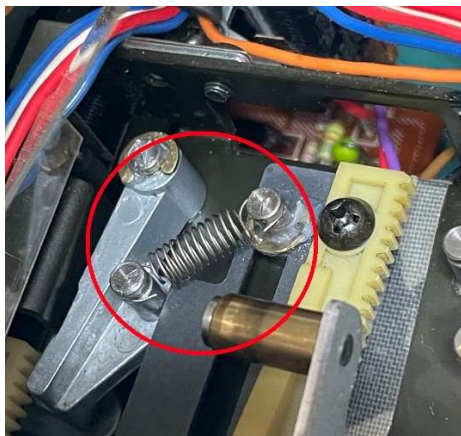
13. Offer up the runner in to position, with it as far towards the front of the player as possible



14. The disc support lever will be preventing the runner from dropping down fully. Push it fully to the right of the runner and lower the runner down. It's possible doing this may force the drawer out. If so, ensure that the locking arm is pushing out and engaging with the drawer. (step 12)



15. Apply the fixing clips to the 2 runner supports with some lithium grease
16. Refit the spring from the locking arm to the runner support (circled)



17. Apply grease to the cam ramp
18. Grease the rack gear on the cam riser
19. Apply lithium grease to each of the reduction gear cog's shafts and start by fitting the cog next to the rack gear.
20. Fit the middle gear and its fixing clip

NOTE: Before fitting the last cog that couples with the worm cog on the motor, ensure that the runner is fully forward with its end engaging the micro switches



21. Apply the last cog that connects with the worm gear and apply it's fixing clip
22. Refit the spring over the gears from the chassis to the clamp lever arm
23. Refit the audio board and secure with its 5 screws

That completes this procedure