
EM6910 Collar Replacement: How To.



Introduction:

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Tools Required:

- Selection of Philips / torx (T20) / flat screwdrivers (preferably magnetized)
- A selection of containers to put screws and other bits into
- One new Collar (Less than \$60)
- Seal
- Food safe grease
- A jar of instant

Assumptions:

- Common sense is available and accessible
- Plenty of patience (Like it or NOT you will need it)
- Attention to detail has not been damaged due to lack of caffeine
- Instant coffee on hand – Any brand

WARNING:

Only attempt to read further once you have agreed to proceeding with this DIY collar replacement at your own risk; if in doubt, as to the process or you ability then - contact a professional service department ASAP.

We recommend; that if you're actually reading this document; then you do not proceed and in fact contact your service agent ASAP.

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Step 1: Power off and remove the plug from the wall.

1. Wrap the plug in tape or something to ensure you don't make a mistake or are tempted to plug it in.
2. Failure to complete step 1 is not an option



Step 2: Prepare to reach that point of NO return.

1. Empty the water container and leave it out
2. Remove the Anti -calk filter
3. Place Anti -calk filter into Salt water solution to soak
4. Remove drip tray and clean - Leave with Water container
5. Open and remove rear SS door / cover (Screw into container)



3 digit text
that
defines the
manufacture
date etc.

Step 3: Last chance to back out.

1. Remove all screws holding the rear R/H side cover (put in container) - white circles
2. Remove both hidden torx screws - green circles
3. Remove two screws (at the edge under the machine) to allow you to then remove the R/H (when looking from the rear) SS side panel (if 6910)
4. When you go to remove the panels Pull from the bottom and as it comes out move it down and off the locating lugs.
5. Take down and NOTE the 3 digit stamp in the label.

Take some time out and have an instant

Step 4: Now you have done it.

1. Stand in front of the machine and Just grasp the knobs one at a time and pull straight off to the side. Sounds simple... Some may need to have another Instant.
2. Small Phillips jewellers screw driver and undo the small screw in the end and remove the knob switching unit - put away carefully and not orientation. DO NOT damage the switch.
3. Undo the 6 Phillips head screws - 4 are LONG and the middle two (yellow) lock in the Knob surrounds
4. Remove the knob surrounds and place in a clean and safe place.
5. Take a deep breath and SLOW it down.... You don't want to be calling the "I am too quick – help line" just yet.



6. Remove the top (be careful with the two sets of connectors / wires to the key pad)

I found the easiest way to remove the top was when standing in front of the machine, grip the rear of the chassis with one hand and to grip one of the rear corners. Pull up the top firmly (don't jerk it up) until it comes up. Be careful as the top is coming up as front buttons are connected by a wiring harness. Simply unclip the two connections and then place the top aside.

Step 4: OK, So this is the collar?

1. You will now have access to the collar. Grab the T20 torx driver and undo the 5 torx screws. Take care as if it is old and or has had spills they could be corroded.
2. Grab an appropriately sized Phillips head screw driver and undo the 4 Phillips head screws. Some blue tac is great for ensuring you do not lose them.
3. In the photo below u can see the 2 front torx screws as well as the 2 front Phillips screws.



4. Also a good time to take stock of all that coffee dust
5. So ask yourself. How did all thousands of grinds get up here and inside the machine?

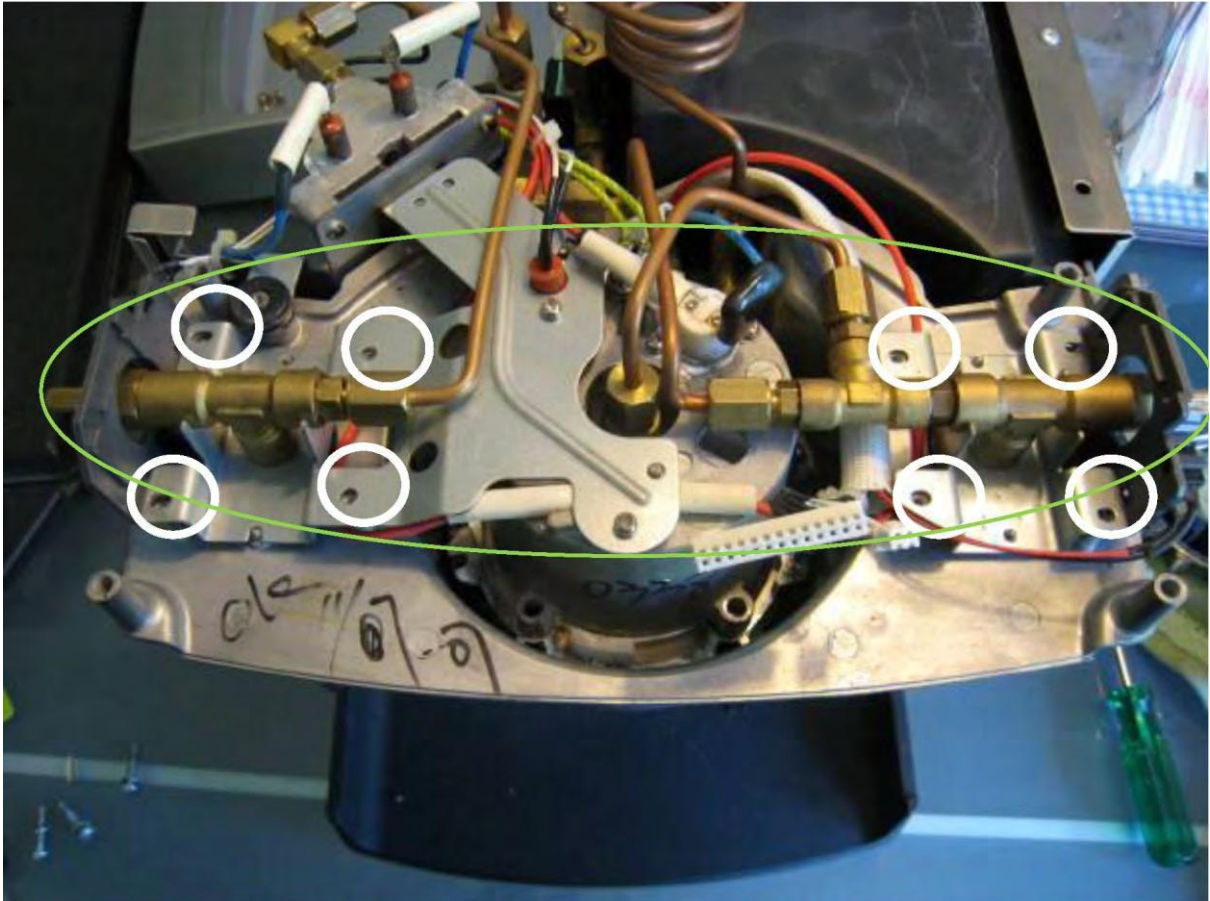
Yep, when over dosing and or choking the machine things flex and swell. At some stage, coffee fines are forced through spaces and gaps that are caused / generated by expansion. This expansion and the collar flexing and moving also caused the head bolts to sheer and thus, the later models have different sized torx screws.

6. You are not far off from replacing the collar, but you about to get STRESSED

Take some time out and have another instant ☺

Step 5: Now to get access

1. Remove the 8 Phillips head screws marked.
2. This will allow you to tilt the entire top assembly (circled in green) enough to slowly tease out the old collar.
3. The screws have already been removed in the photo; but remember to put them somewhere safe and how they go back.
4. Miss assembly when returning here WILL cause you much frustration; so take ya time and do it slow.



5. Be careful at this stage, you don't need to undo anything else here.

The entire top assembly including head and associated pipes will be able to be tilted up towards the back of the machine enough to allow you to manipulate the collar out. Be careful and you shouldn't need to force anything here. A firm hand, some patience a little wiggle here and a little wiggle there should have the old collar out.

6. Once the new collar is in and seated (make sure u have seated it correctly before screwing it all back up (when viewed from underneath the collar should look like the photo in step 11)
screw it all back up and reverse everything you have just done.

Step 6: Now to do all that in reverse

1. Now that your almost all done, sit back and enjoy a last instant coffee and admire your hard work
2. Take a pic or two and have a close look at that old collar. Now ask yourself; did it really lock in the same with or without coffee grinds? Bet teh answer is NO. Do the 5 cent piece test and learn to manage your tamp depth.
3. Note the lip and swelling on ONE side more than the other - Go through your tamping motions/ locking the PF in and visualize what is going on and WHY that part is getting a hammering.



4. Once you at that stage of replacing the rear cover; time to call in "Your licensed Electrical contact " and have an EST performed before going any further.

***ELECTRICAL SAFETY AS3760* - This is the testing that your Electrical person will perform and sign off - PRIOR to the unit being placed back into service**

ELECTRICAL TEST FOR EARTHED (CLASS I) APPLIANCES

Earth Continuity:

- Earth continuity test must be performed between exposed metal parts, and any one of the following locations:
- The earth pin on the three-pin plug attached to the flexible cord (or complete assemblies).
- The green/yellow earth wire of the flexible cord (where no plug is fitted).
- The main earth terminal on the body of the appliance (where no plug and cord is fitted).
- Method
- When a minimum current of 25 amperes from an extra low voltage supply (0-12V AC) is made to flow between the above locations, the resistance as determined by the volt amp method (ie. V/I) must be less than 0.1 ohm for stationary parts and less than 1 ohm for moving parts (e.g. shafts, etc.).
- When the measurement is from location (a) or (b) an allowance for the resistance of the cord is permitted.

Insulation Resistance:

- A resistance measurement is to be taken between earth parts (earth pin) and live parts (active and neutral pin) using 500 volts dc. The resistance obtained must not be less than 1 Mega ohm.
- Electric Strength:
- A high voltage test must be applied between earthed metal parts (earth pin) and live parts (active and neutral pins connected together) of 1500 volts rms for 1 second or 1250 volts rms for one minute for Quality Audits (QA).

Additional notes:

Cleaning your EM69XX

- Always remove and check your shower screens for coffee fines and dirt before performing any cleaning
- Re charge your anti calc filter at least every 8 to 10 weeks
- Use the correct cleaning materials but at a more frequent rate than the manual states- You do know what a Manual is; don't you ?

Steam test under default factory setting:

- Unit starts from cold and after ready lights are on, switch ON
- Steam function for 10 seconds to get remove initial water in the plumbing.
- Collect water from the steam outlet over a period of 1 minute of steaming into a small Milk Frothing Jug with the steam output jet / nozzle removed.
- The maximum water quantity in the jug should be less than 20ml.

Group Lug modification:

- Search on Coffee snobs – Use the advances search as detailed in the stickies.
- In essence ; it is grinding down of the step in the lug on the older group's to allow more surface contact and to ride over any existing malformations that might be present.

Steam Pump modification:

- Not public as yet
- Merges the old with the new and provides up to 20% more steam at teh jug.

Warning signs:

- Gauge is bouncy when doing the Sweet spot test = Coffee fines getting into the system
- Group handle required to move further to teh RH side to lock in
- Dribbles and leaks like an old man after surgery when trying to pull that tight god shot
- Start to spray like a Tom Cat when you do your Chemical back wash
- Shower screen clearly visible and indented into the puck – DO the 5 cent test procedure ASAP?
- If you have to Grunt OR place Hand on unit to keep it on the bench OR use safety glasses because it sprays grinds all over the place OR the group always tries to work its self off etc then take a fresh look at what you're doing.

ODP Software Update:

This is under development but due to ethical and moral police; may never be implemented.

Subject: OverDosingProtection

"ODP subroutine"

```
if ODP_scan.disable then user.idiot = true

  if user.idiot then
    break_fingers(user)
    bash_in_head(user)
  end if

  private sub break_fingers(user as dumb_person)
    tool.hammer.size = really_big
    for finger = 1 to 10
      use_hammer(user, finger)
    next finger
  end sub

  private sub bash_in_head(user as dumb_person)
    dim club as new wooden_object
    do
      club.beat user
    until user.lesson_learned
  end sub
```

Notes and scribble page that no one will use:

- **2 + 2 = 5 for great coffee:** However one must also acknowledge, that even with the best computers today; the full facts about string theory, escapes the best of them...
- WHY: - Because it is really about string theory and that shift from a single point to something? However coffee is about what's in the cup and when in the cup; it has no option but to become a knot 🤔 AND once you grasp the most simplistic understanding of String and Knot theory; it all makes absolute sense.

Acknowledgements:

Pretty much all of the information detailed in this document has been gathered from the coffeesnobs website (www.coffeesnobs.com.au) and much of that from AngerManagement who is a Sunbeam em6910 guru.

My personal thanks must go to coffeesnobs and AngerManagement, without them I most probably would still have a broken machine and would definitely not have the appreciation for coffee that I do today – WAN

TG for keeping AM on the straight and Narrow

Matrix and many others, who without knowing; did all the work while AM sat back and had good coffee while thinking of a new rant

Print DIY Guide

Thanks - Just what I wanted

Submit feedback by Email