

Gear Motor or Timer Replacement on the Semco Model #388 Mixer

Disassembly

- Disconnect electrical and air supply.
- Using a 3/8" wrench remove the air line from the blue fitting that is attached to the mounting plate behind the upper poppet valves.
- Using a 3/16" allen wrench remove the two allen bolts that hold the mounting plate to the bracket, then remove the two allen screws that hold the retainer plate to the bracket.
- Using a 1/4" allen wrench remove the four allen bolts that attach the control box to the mounting plate.
- Remove the one airline that goes from the pilot valve (on back of bracket) to the solenoid located inside the control box.
- Lay the mixer on its side and you can now remove the control box with the air cylinder / retainer plate and the mounting plate attached from the bracket. Be careful because you have to feed the air lines and the electrical cord through the bracket. You only need to separate the control box from the bracket enough to get a 1/4" allen wrench in far enough to remove the three allen bolts that hold the gear motor to the control box. (if you remove all the air lines be sure that you note where each one goes, it is not necessary to remove all the air lines)
- Using a 1/8" allen wrench, remove the spindle assembly from the gear motor shaft.
- Remove the four screws that hold the base plate cover to the bottom of the control box.
- Remove the two slotted screws that hold the solenoid to the control box.
- Using a 1/4" allen wrench to remove the three gear motor mounting bolts and the motor can be removed from the control box.

Replacing the Timer

- The gear motor must first be removed from the control box to remove the timer.
- Remove the knob from the timer and using a 1/2" wrench remove the nut that holds the timer in place. Once the nut is removed the timer can be removed from the control box, be sure that you note where the electrical wires go on the back of the timer.
- Unscrew the wires from the old timer and attach them in the proper position on the new timer.
- Set new timer in the correct position in the control box and make sure the two alignment tangs fit properly in the two holes next to where the timer stem goes through the box wall, install faceplate and using the supplied nut tighten in place.

Replacing the Motor

- Get three blue wire nuts and cut the wires a few inches back from where they are soldered to the switch, the wire nuts can be used to attach the new wires to the existing pieces that are attached to the switch you can now reinstall the gear motor and solenoid back in place.

Reassembling

- Reattach the base plate to the control box.
- Reattach all the parts back to the bracket.
- Make sure all the air lines are tight if they have been removed, no Teflon tape is needed, these fittings are a flare type fitting. (using Teflon tape will make them leak)