



Installation Instructions

PART NUMBER	154-8604 / 154-8604E	
PART DESCRIPTION	CONDITIONER PUMP MOTOR - 115V/230V	
REV DATE	2/6/2023	
MACHINE MODELS	KUSTODIAN, KUSTODIAN PLUS, PXS-C, STD AC, STD SE, ELT	

TOOLS NEEDED	PARTS
Phillips Screwdriver 3/32 Allen wrench Rags	154-8604 - CONDITIONER PUMP MOTOR – 115V 154-8604E - CONDITIONER PUMP MOTOR - 230V STANDARD
TECHNICAL NOTE	
Please thoroughly read the instructions prior to performing the installation of this assembly. To avoid any potential problems, if at any time during the process you have a question, stop, and contact our Tech Support department at the numbers listed below.	

STEPS

INSTRUCTIONS FOR PXS-C, STD AC, STD SE, ELITE MACHINES

1. Unplug the 9-pin connector plug from the wago block assembly to the harness wiring (right side behind transfer motor)
2. Unplug the oil hose from valve to splash guard fitting (on back side).
3. Loosen and remove the two (2) 1/4 "-20 x7/8 mounting bolts that hold the assembly to the back panel and take assembly out of machine.
4. Set the assembly on a workbench.
5. Remove the two (2) screws holding the pump motor guard and take the guard off.
6. If the pump motor needs replacing:
 - 6.1. If your machine has a pass-through sensor, unplug the 2-pin connector.



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- 6.2. Loosen and remove the sensor.
 - 6.3. Loosen set screws on disk and pull disk off the motor shaft.
 - 6.4. Take wing - nut off pressure regulator box and pivot box out of the way.
 - 6.5. Unscrew the fastener holding the capacitor to the mounting angle.
 - 6.6. Unscrew the pump motor fasteners and pull the motor off the bracket.
 - 6.7. Place the new motor on the bracket and screw fasteners into the bracket.
 - 6.8. Screw the capacitor into place.
 - 6.9. Pivot the pressure regulator box back into place and secure with wing - nut.
 - 6.10. Put the disk with the belt looped around the pulley onto the motor shaft (hub first) and tighten the set screws so that there is approx. 1/16 " of space between the hub and mounting angle.
 - 6.11. Screw the sensor onto the bracket with the disk in center of "pass - through" (also make sure the sensor cable is still plugged in).
7. If the metering pump needs replacing:
 - 7.1. Loosen the (2) set screws holding the pulley onto the shaft, and slide pulley (and belt) off.
 - 7.2. Unscrew the oil hoses from the back locations of the metering pump.
 - 7.3. Unscrew the (2) fasteners securing pump to mounting bracket, and remove the pump.
 - 7.4. Place the new metering pump into position (serial I.D. sticker will be facing downwards against the plate), and secure from the front side of mounting bracket with fasteners removed from previous step. Before tightening completely, push the metering pump towards pump motor as much as slots will allow to keep the belt loose.
 - 7.5. Push the oil hose fittings back into the metering pump and tighten nuts completely.
 - 7.6. Place the pulley (with belt already on) onto the shaft, hub side first. Push the pulley in until 1/16 " space between hub and mounting bracket is achieved. Make sure set screws line up with the flat spots on shaft, tighten pulley down.
 8. Place the pump motor guard back on over the belt side of assembly and secure completely down to the mounting angle.
 9. Take the completed assembly and set it back into the machine. Line the mounting holes on the assembly up with rear wall mounting holes and using fasteners from step #3 (1/4 " - 20 x 7/8"), secure the pump assembly back into place.
 10. Plug the oil hose from valve back into the splash guard fitting (back side).
 11. Plug the 9- pin connector plug from the wago block back into the harness wiring (RT. side).
 12. Circulate oil through system and re-calibrate as needed.

INSTRUCTIONS FOR KUSTODIAN AND KUSTODIAN PLUS MACHINES

1. Unplug the 2-pin connector plug from the motor to the harness.
2. Disconnect the pulse suppression hose from the bottom of the pressure gauge.
3. Loosen and remove the (2) 5/16 – 18 x ¾ mounting bolts that hold the assembly to the back panel.
4. Disconnect the oil pump feed line coming from the conditioner tank and remove the oil pump assembly.
5. Set the assembly on a work bench.
6. Remove the screws holding the pump motor guard on and take the guard off.
7. Loosen set screws on the motor pulley and remove the pulley and belt.
8. Unscrew the fastener holding the capacitor to the mounting angle.
9. Unscrew the pump motor fasteners and pull the motor off the bracket.
10. Place the new motor on the bracket and screw the fasteners into the bracket.
11. Screw the capacitor into place.
12. Put the belt looped around the pulley onto the motor shaft (hub first) and tighten the set screws when the pulleys are lined up with each other.
13. Place the pump motor guard back on and re-use the screws that were removed in step 6.
14. Take the completed assembly and set it back into the machine.
15. Reconnect the oil pump feed line coming from the conditioner tank.
16. Line up the mounting holes on the assembly with the rear wall mounting holes and using fasteners from step 3 (5/16 – 18 x ¾).
17. Secure the pump assembly back into place.
18. Reconnect the pulse suppression hose to the bottom of the gauge.
19. Plug to 2-pin connector from the motor back into the harness.
20. Circulate oil through system and re-calibrate as needed.