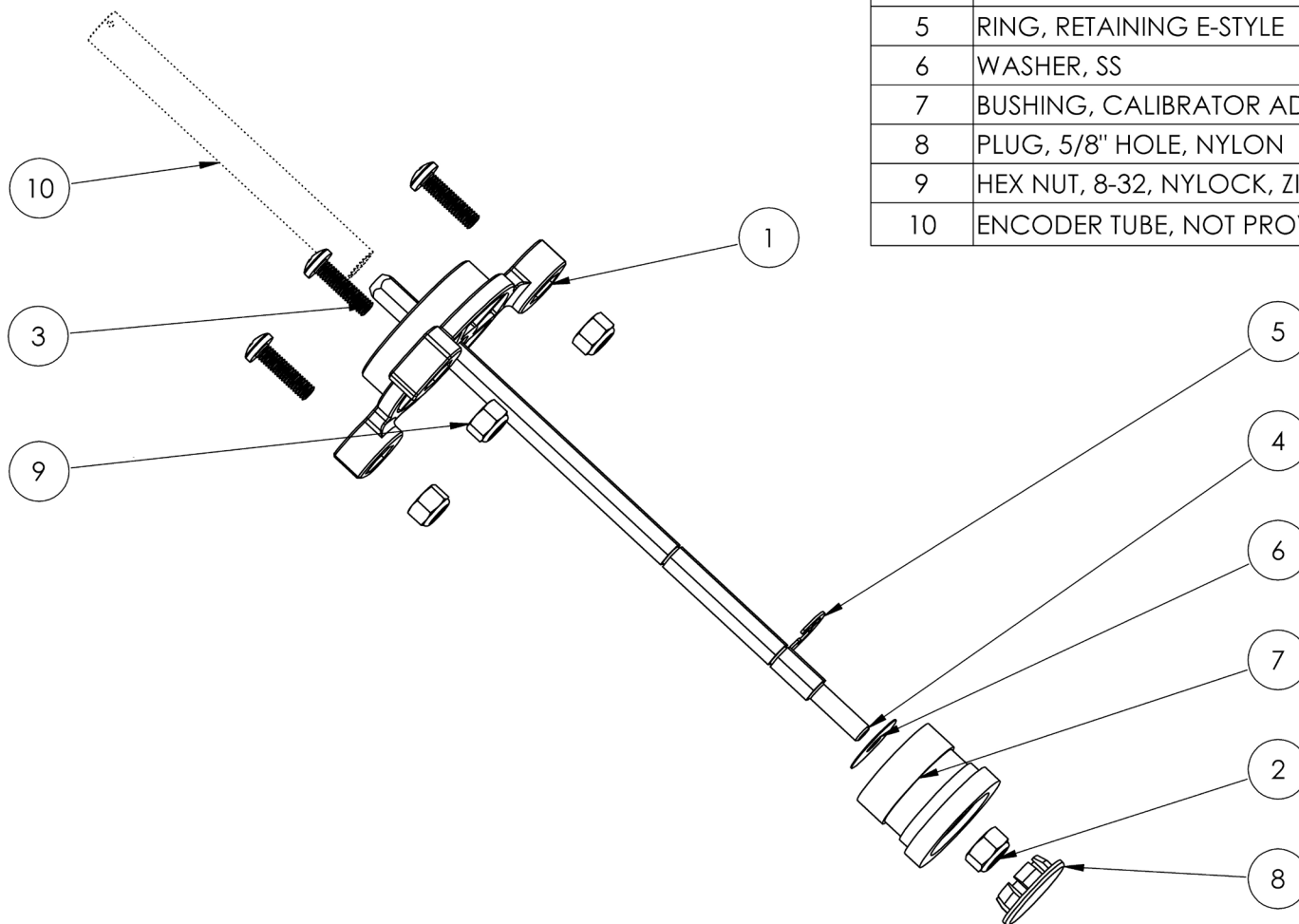


ITEM	DESCRIPTION	QTY
1	ENCODER GUIDE	1
2	NUT, LOCKING, #10-24 HEX W/NYLON INSERT	1
3	SCREW, 8-32 X 5/8, PHMS	3
4	ENCODER SHAFT, CALIBRATOR DRIVE, LC	1
5	RING, RETAINING E-STYLE	1
6	WASHER, SS	1
7	BUSHING, CALIBRATOR ADAPTER	1
8	PLUG, 5/8" HOLE, NYLON	1
9	HEX NUT, 8-32, NYLOCK, ZINC	3
10	ENCODER TUBE, NOT PROVIDED WITH KIT	1



Disassembly

Assembly Instructions for LC Conversion Kit

1. Remove the mechanical register by removing the four security screws. Lift the register vertically to remove it from the base of the Right Angle Drive (RAD).
2. Remove the front cover of the Right Angle Drive adapter by removing the four screws in the front. Retain the cover and screws for reuse later.
3. At the bottom of the RAD, a set screw is used to lock the bushing for the calibrator drive shaft in place. Remove the set screw and retain for reuse later. The bushing and drive shaft should drop out of the bottom of the RAD. If it does not, grip the shaft with pliers and apply downward force until it releases. Take note of the orientation of the drive shaft gear.
4. The calibrator assembly is held in place by two screws on top flange of the RAD. Remove these screws and the RAD. These screws and the calibrator are no longer needed.



IMPORTANT! While the RAD is disassembled, inspect the mechanical packing of the meter output for wear and leaks. If excessive wear or leaks are evident, the mechanical packing should be replaced before continuing.

Reassembly

1. Install three locknuts into the nylon encoder shaft bushing with the nylon patch facing outwards. The nuts may require a light press fit for installation.
2. Place the bushing inside the RAD and align with the three holes at the top. The hole pattern is not fully symmetrical and will need to be oriented correctly for all three holes to align.
3. Secure the new encoder shaft bushing using the three screws supplied with the conversion kit. These screws are installed from the top flange of the RAD. Tighten the screws until snug and the locknuts are fully seated. Be careful to not over-tighten and crack the nylon bushing.
4. Install the longer drive shaft assembly through the bottom of the RAD with the retaining ring and drive shaft gear oriented in the same direction as before. Reinstall the set screw and lock the bushing in place. Before tightening the set screw completely, ensure proper clearance between the drive shaft gear the gear on the mechanical packing. The gears should not be bound tight and they should not be too loose.
5. Prepare the LC register and encoder assembly per the manufacturer's assembly instructions. The encoder can be easily damaged, so care must be taken to protect it. For ease of assembly, install the LC hollow encoder shaft at this time.
6. The LC register and encoder assembly can now be lowered onto the flange of the RAD. The encoder shaft should easily slip over the new RAD drive shaft and through the new encoder bushing.
7. Secure the LC register using the security screws provided with the LC register kit.
8. Replace the cover of the RAD using the four security screws.