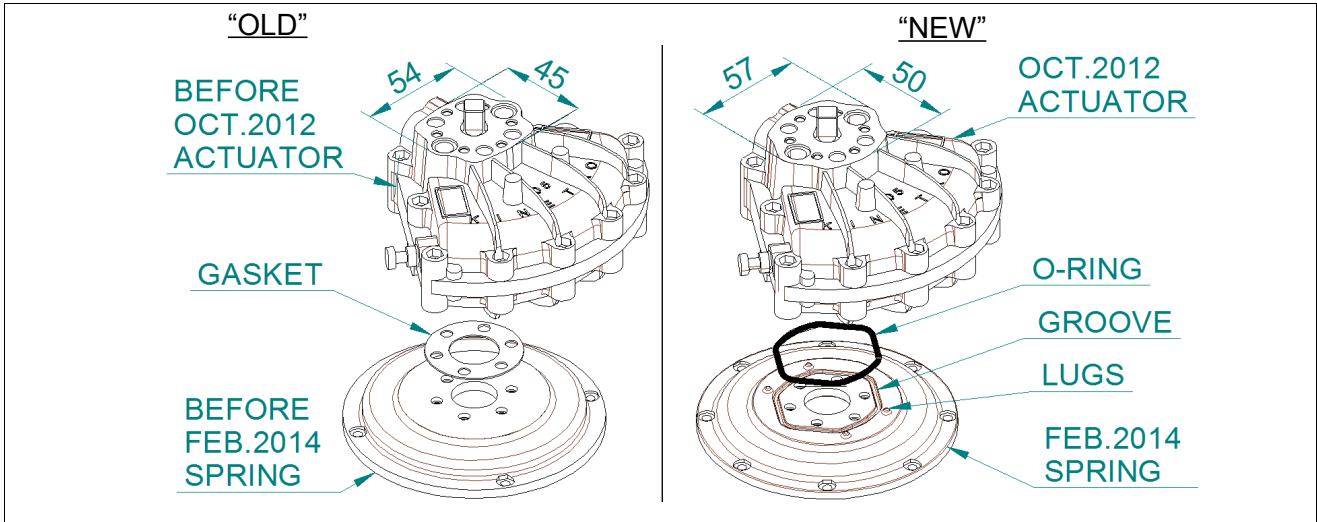


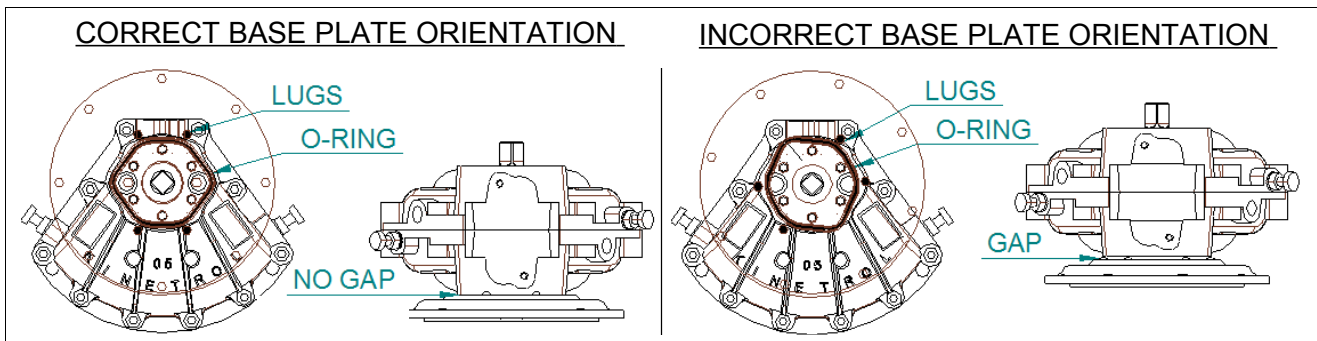
**Title: 2014 05 SPRING RETURN UNITS**

Introduction.

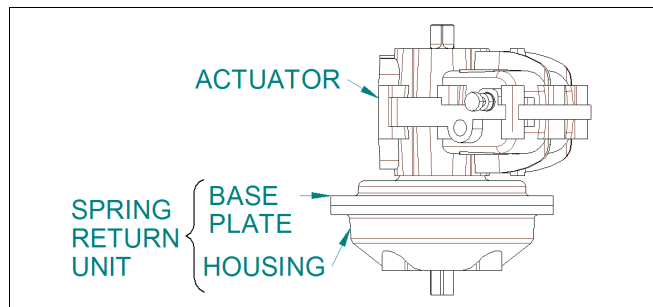
In February 2014 the 05 range of spring return units (050, 053, 054, 057 & 059) was redesigned. For this document they will be referred to as “2014 springs”. One improvement was to change the method of sealing between the base plate and the actuator mount face, which now employs an O-ring instead of a cork gasket. 2014 spring modules can be identified by the O-ring groove in the mounting face of the base plate. To ensure that the O-ring provides an effective seal, the actuator mounting face was enlarged on all 05 actuators built from October 2012 (referred to as “OCT 2012 actuators”, in readiness for the 2014 spring. (see sketch below)



Because of the shape of the O-ring groove, it is theoretically possible to fit the spring base plate to the actuator in the incorrect orientation (i.e. 60° out of position) which could allow leakage past the O-ring. To prevent this, the base plate has lugs protruding from the cast surface; If the base plate is attached to the actuator in the wrong orientation, the lugs will prevent the face of the base plate from contacting the actuator face, creating a clearly visible gap. The base plate **MUST** be orientated such that the lugs overhang the sides of the actuator mounting face, and do not make contact with the mounting face. (see sketch below)



2014 spring housings must be used with 2014 base plates. “Old” spring housings must be used with “old” base plates. Any spring unit can be fitted to any actuator provided the correct seal is used. (see table below)



	“OLD” SPRING	2014 SPRING	*Note: If necessary gasket can be used instead of O-ring between 2012 actuator and 2014 spring, but preferred method is the O-ring. Greasing the O-ring helps to retain it in the groove during assembly
“OLD” ACTUATOR	GASKET	GASKET	
2012 ACTUATOR	GASKET	O-RING*	