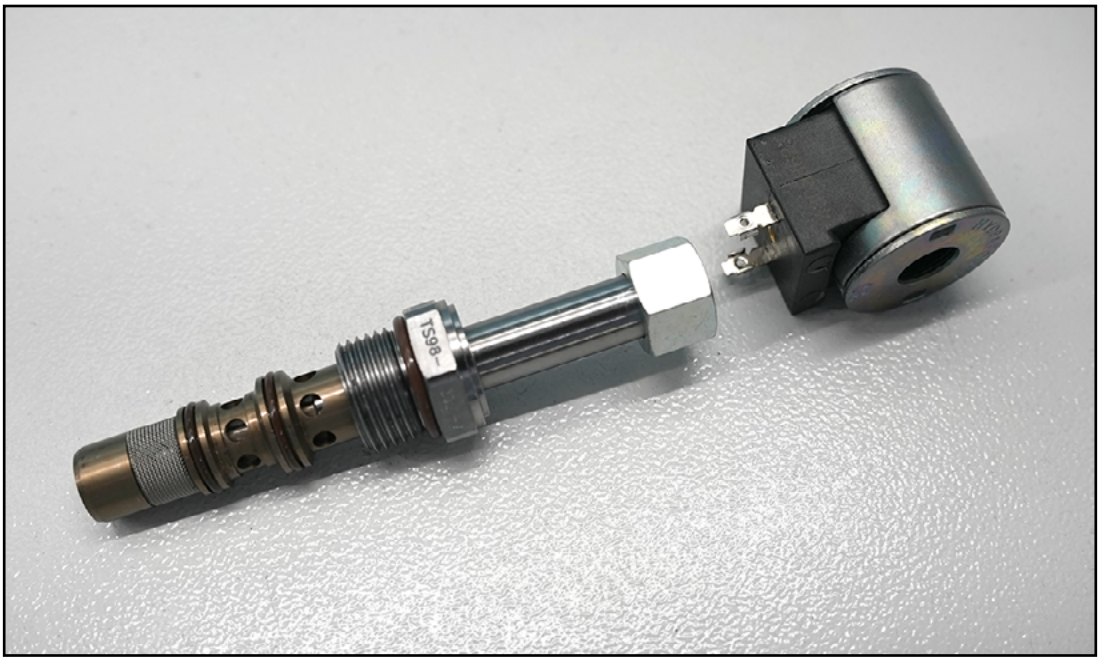
LIFCO HYDRAULICS INC

TECHNICAL ARTICLE
TA-LIF-010

9A CONTROL VALVE AND COIL DESIGN UPDATE

PARKER GOLD CUP SERIES



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The Parker Gold Cup 9A electrohydraulic control, for the Parker Gold Cup, is being phased out and replaced by a new design that will basically thread into the same cavity, but will require different coils.

The old valve has an o-ring seal and the old coil is black with 3 prongs(PINS) for the DIN connector (electrical connector). See figures 1 & 2 below.



Figure 1: Old 9A Valve has an o-ring seal



Figure 2: Old 9A Coil has 3 prongs for the DIN Connector

The new valve does not have an o-ring seal, although they look very similar. See figure 3 below.

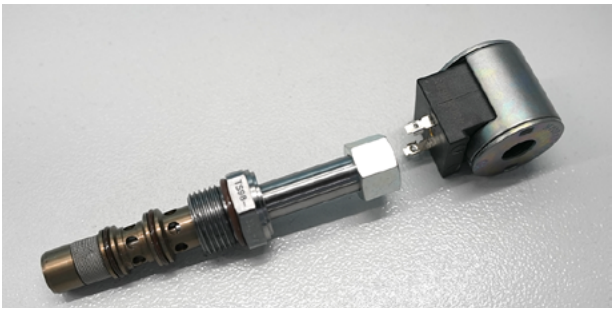


Figure 3: New 9A Valve does not have an o-ring seal

The new coil has a silver metal housing and only 2 prongs(PINS) for the DIN connector (electrical connector). The third prong (that we see on the old coil) is no longer necessary. No connector/ wiring changes will be needed for this new coil design. See figure 4 below.



Figure 4: New 9A Coil has only 2 prongs

A very obvious difference between the old and new coil is the nut used to tighten it. The old round nut appears to be much larger than the new nut, but it does take the same 3/4” wrench size. Torque to 20-25 in-lbs.

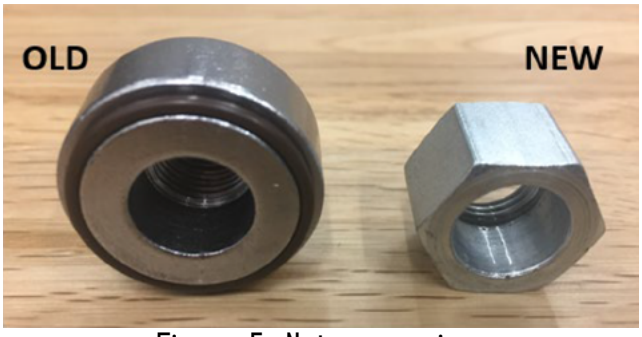


Figure 5: Nut comparison

The new and old cartridge valves are very similar, so be careful not to accidentally mix them up when installing.

The coil can be installed upside down which will cause the pump to not get full flow. The solid metal face of the coil should be facing the coil nut. See figure 6 below.

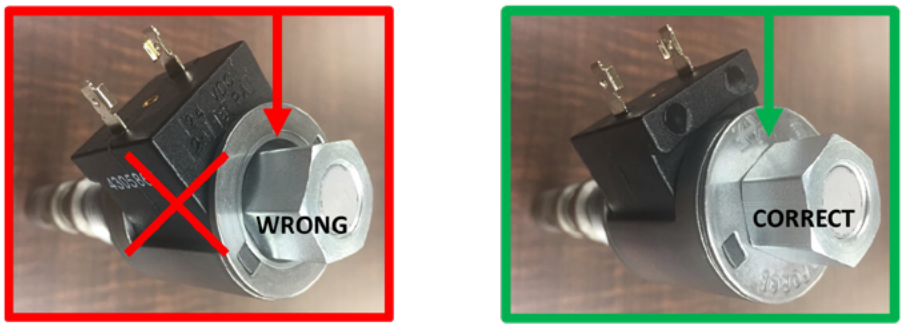


Figure 6: The right and wrong way to place the coil

DO NOT MIX THE OLD AND NEW STYLE VALVE AND COIL TOGETHER.
Mixing components may result in a performance decrease.

VALVE & COIL PART NUMBERS	OLD	**NEW**
Coil 12V DC w/ DIN connector	517-00097-0	**517-00216-0**
Coil 24V DC w/ DIN connector	517-00096-0	**517-00215-0**
Cartridge Valve	517-00095-0	**517-00214-5**
Replacement Kit - Valve & 12V Coil		**S23-29836-5**
Replacement Kit - Valve & 24V Coil		**S23-29837-5**