

PREPARED	MLM	7-23-03	REV.	CRN	DATE
CHECK			NC	UEI005585	MEL/MLM 7-31-03
MGR. ENGR.					
PROD. ENGR.	KVD	7-23-03			
DES. ENGR.	MEL	7-23-03			
MFG.					
QUAL.					
OTHER					

CDS7009
G761 MOTOR CAP ROTATION INSTRUCTIONS

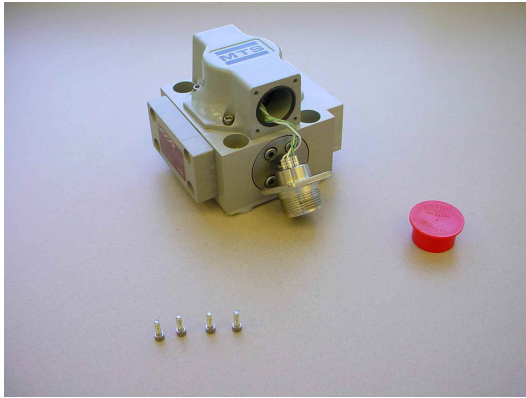
The following instruction has been written to aid Moog customers in the proper procedure to reposition the motor cap of a G761 Series servovalve. It can also apply to 760 Series valves. It may be sent to a customer who is interested in making this modification or who would like to incorporate these instructions into their own documentation.

MOOG INC., Industrial Controls Division • East Aurora, NY 14052	CAGE CODE 94697	REVISION NC
CDS7009 - G761 Motor Cap Rotation Instructions		
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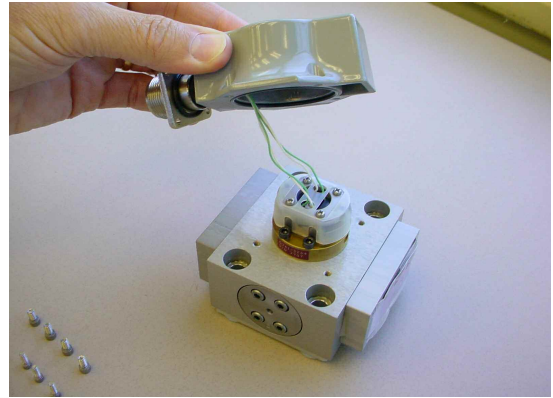
G761 Motor Cap Rotation Instructions

The motor cap of most G761 Series servovalves is oriented with the electrical connector towards the “P” side of the body at the factory. The motor cap can be installed in four positions by design. Some customers desire to rotate the motor cap to a different position for certain installations. This instruction has been written to aid the customer in making this modification. All work should be done in a clean area free of any dirt, magnetic particles, or small metal parts that might be attracted to the torque motor of the servovalve. It should also be noted that if the servovalve is sent to a Moog facility for repair, the valve will be returned to its original configuration.

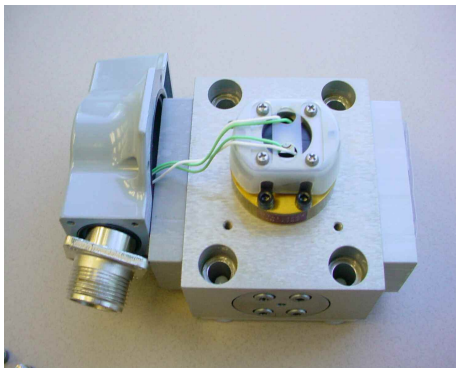
- 1.0 Remove the four socket head cap screws that secure the electrical connector to the motor cap using a 3/32” Allen wrench.
- 2.0 Carefully guide the electrical connector away from the motor cap while untwisting the coil leadwires. See photo 1.
- 3.0 Remove the four socket head cap screws that hold the motor cap to the valve body using a 7/64” Allen wrench.
- 4.0 Carefully lift and rotate the motor cap to the desired orientation while paying close attention to the coil leadwires where they exit the top of the torque motor. There is a nylon motor cover which should be protecting the torque motor and preventing the coil leadwires from interfering with the armature and air gaps of the torque motor. See photo 2.
- 5.0 Guide the coil leadwires toward the desired connector position being careful to lay the wires smoothly. The wires must not be crossed in the area where the motor cap will be positioned close to the top of the torque motor. See photo 3.
- 6.0 Position the motor cap on the body. Make sure that the motor cap to body oring is in the groove on the base of the motor cap.
- 7.0 Secure the motor cap to the body with the four screws. Torque the screws to 12 in-lbs.
- 8.0 Verify that the connector oring has remained in place. See photo 4.
- 9.0 Lightly twist the connector two turns as it is moved into position against the motor cap with the connector keyway oriented upward (12 o'clock) away from the valve body.
- 10.0 Secure the connector to the motor cap with the four screws. Torque the screws to 10 in-lbs.



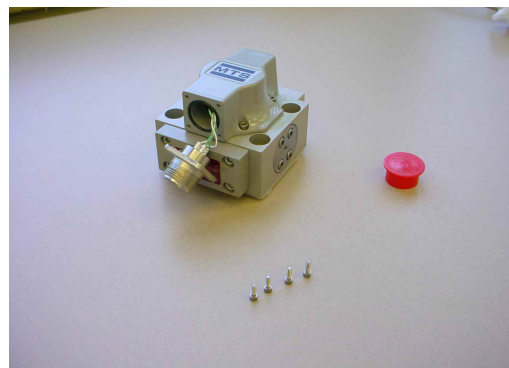
1) Connector removed



2) Motor cap removed



3) Wires dressed to the left



4) Motor cap installed to the left