

CW3 CHUCK ROTATING MOTOR REPLACEMENT

Part #994058-I



This Technical Bulletin applies to CW3 Welding machines manufactured before December 1, 2014.

REQUIRED PARTS:

- (1) Replacement Motor
- (4) 1/4 - 28 x 1.5" bolts with flat and lock washers
- (1) Bolt pattern drill template

The chuck drive motor is being replaced with a Bodine Gearmotor Model 1450. Different size bolt patterns require new mount holes to be drilled. The new equipment is bolted through the 1" thick aluminum plate with the threads in the motor. Clearance holes for 1/4-28 bolts in the new pattern and location need to be drilled. Both motors use the same shaft through hole.

Replacement Procedure

1. De-energize electrical and air power.
2. Disconnect wiring and any other motor connections.
3. Loosen the drive gear from the shaft and remove
4. Unbolt the old motor from the equipment and remove.
5. Remove motor shaft bearing if one is present in the aluminum housing.
6. Place the drill template in place of original motor and hold in place with original bolts.
7. Mark the centers of the remaining holes in template with transfer punch. Remove template.
8. Drill four holes 17/64" in diameter at the punch locations and debur. Take care to avoid damage to other components inside the machine. Remove as needed.
9. Attach the new motor using 1/4-28 bolts threaded through from inside. Make bolts snug but do not tighten.
10. Re-attach the drive gear.
11. Hand turn the gear assembly to be sure gears do not bind.
12. Tighten the new gear motor to aluminum frame.
13. Reinstall any equipment removed in order to gain access.
14. Reconnect wiring.

The new gear motor does not require the shaft bushing that was pressed into the aluminum frame, if one was present.