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INSTALLATION

Motor

1. Check the nameplate data on the motor to assure that the available power supply agrees with the motor requirements. Protective devices should be of the proper size and rating to safely carry the load and interrupt the circuit on overloads.
2. If the motor has been stored in a damp location, the winding may require drying. NOTE: Do not obstruct the normal flow of ventilation air through or over the motor.
3. Connect the motor in accordance with the National Electric Code and local requirements, but do not make the connections permanent until the motor rotation has been checked.

Identify motor auxiliary devices such as space heaters or temperature sensors. Connect them in proper circuits and insulate them from motor power cables.

4. Jog the motor to check for correct rotation prior to securing wiring.

Mounting Support structure must be rigid enough to prevent deflection and vibration.

Agitator

Correct installation requires both the unit assembly drawing and this manual.

Completely read and understand all of the following instructions before attempting to install or service this equipment.

1. Depending on the size of the mixer and configuration of impeller, unit may be shipped in different degrees of assembly. Carefully examine assembly drawing & locate all parts. Instructions encompass complete assembly. Some steps may not be necessary on initial installation.
2. Remove all shipping constraints, including any protective covering on the mounting flange face.
3. Slide large circlip over shaft all the way to flange.
4. Slide large bearing over shaft until seated against shoulder. Area closest to

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shoulder should be a light press fit.

5. Slide circlip over the shaft until it is engaged in the groove in the shaft securing inner race of bearing to shaft.
6. Slide small bearing onto shaft until it is seated against shoulder. Area closest to shoulder should be a light press fit.
7. Slide circlip over shaft until it is engaged in the groove in the shaft securing inner race of bearing to shaft.
8. Secure outer rotor to rotor assembly using studs & hex cap nuts.
Note: rotor & rotor assembly may be match marked at joint, if so align match marks.

Note: if impeller is welded to rotor assembly and does not fit through the nozzle opening, you will need to skip to step #11.

9. Slide outer rotor & rotor assembly over bearings until seated against outer race of bearing.
10. Engage large circlip into groove in rotor assembly securing rotor assembly to outer race of large bearing.
11. Shroud, shaft & rotor assembly may now be inserted into nozzle on tank wall. O'rings or gaskets need to be installed between the flanges in accordance with customer requirements. When sliding rotor assembly through the tank wall, care should be taken not to bump or scrape rotor assembly inside of tank nozzle. Rotate flange until tapped holes for gearbox straddle the vertical center line and the holes in both flanges line up. You may now bolt both flanges together and torque per bulletin #01-200.

Note: If impeller is welded to rotor assembly, go back to step #9 & 10, then do second half of step #12.

12. Go inside tank and attach impeller to shaft. Once the impeller is secured to shaft, rotate by hand. The complete assembly should rotate freely. You may proceed with balance of assembly work on the outside of the tank.

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13. Stub shaft & inner rotor should already be attached to gearbox.
14. Slide inner rotor into shroud until gearbox output flange engages with register in shroud flange. Some resistance will be felt as the inner and outer rotor magnetic fields engage. **Note: as you start sliding inner rotor into shroud, resistance will be felt. Care should be observed as inner and outer rotors become close to being fully engaged. There will be a sudden lack of resistance. Do Not let the gearbox flange slam against flange on tank, as this may cause damage to pilot on gearbox flange and register in tank flange.**
15. Secure gearbox to tank flange with bolts. Tighten bolts per bulletin #01-200. Input flange of gearbox should be in the vertical up position (12 o'clock).
16. Insert key into keyway on motor shaft.
17. Engage motor shaft and key into bore and keyway of gearbox input quill.
18. Bolt motor to gearbox. Tighten to proper torque per bulletin #01-200.
19. Wire motor in accordance with the National Electrical Code and local requirements.
20. Fill the gearbox with the proper oil if the unit was shipped with no oil.
21. Jog motor quickly to check for proper shaft rotation.
22. Fill tank to proper operating level.
23. Start mixer, check for vibration, noise, oil leaks, & product leakage between tank flange and mixer flange. If excess vibration or abnormal noises are present, shut the mixer off immediately and consult trouble shooting guide Bulletin #06-050. After problem has been corrected, mixer may be restarted.