

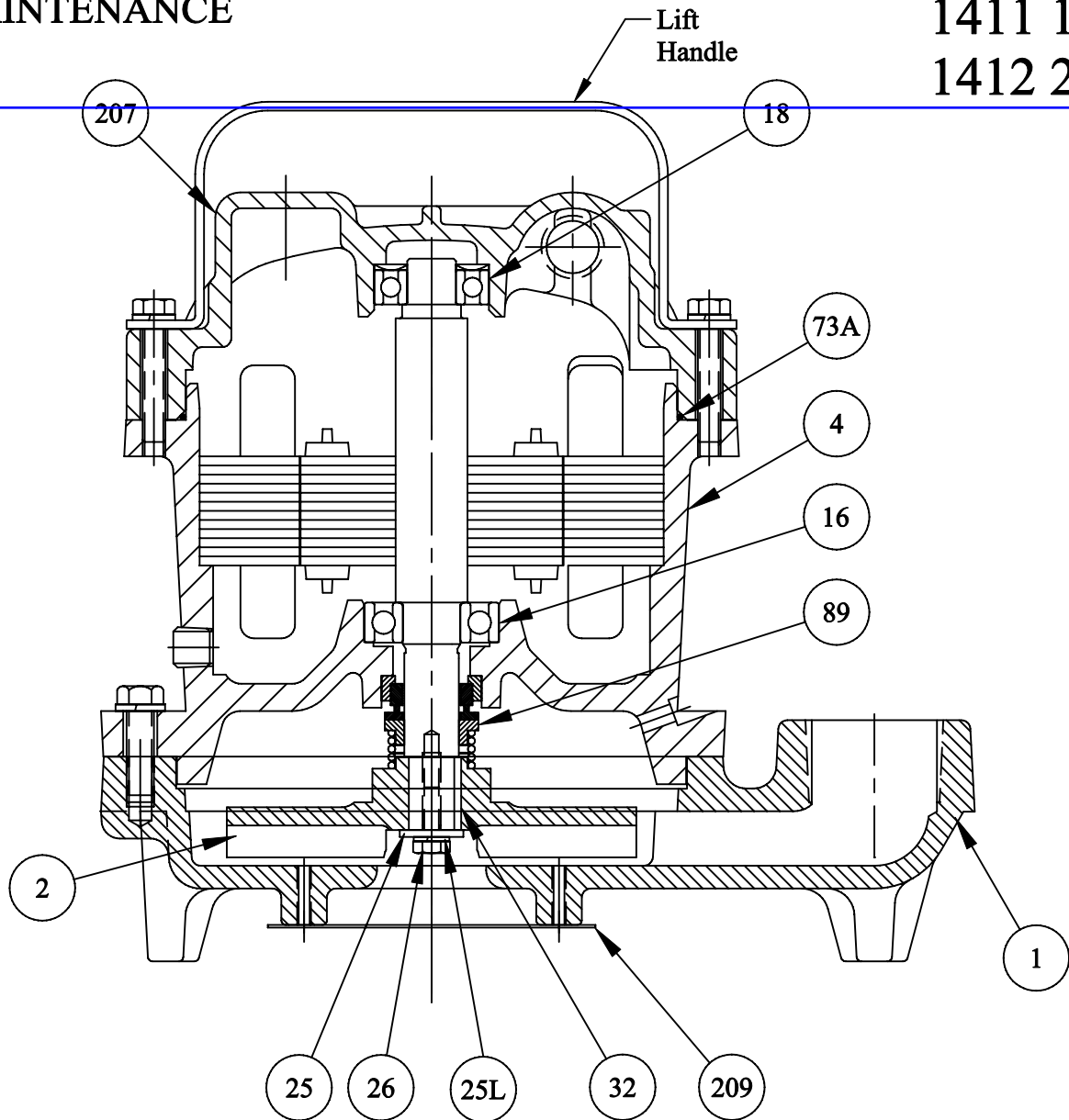
WEIL**INSTALLATION
OPERATION
MAINTENANCE****Submersible Wastewater Pump**

1408 1453

1409 1454

1411 1456

1412 2411

**PARTS BREAKDOWN****KEY NO. DESCRIPTION**

1	Case	73A	● Gasket, (O-Ring)
2	Impeller	89	● Seal, Lower
4	Motor	207	Motor Cover Assembly
16	● Ball Bearing, Lower	209	Strainer (1400 Models Only)
18	● Ball Bearing, Upper		Lift Handle
25	● Washer		
25L	● Lockwasher		
26	● Impeller Retaining Screw		
32	● Impeller Key		

Items marked with (●) are included in repair kit 206.706.001 for pumps with motor W-9724.

ASSEMBLY AND DISASSEMBLY INSTRUCTIONS

1. Disconnect and lock out the electrical supply to the motor before working on the unit.
2. Lift the pump from the pit with a steel cable or chain attached to the lifting handle at the top of the pump. **DO NOT USE THE POWER CABLE FOR THIS PURPOSE.**
3. Move the pump to a clean and dry location.

LUBRICATION

The Weil submersible pump is equipped with double sealed prelubricated bearings which require no further lubrication.

CLEANING OR REPLACEMENT OF IMPELLER

1. With the pump standing vertically, remove the screws holding the motor (4) to the case (1).
2. Carefully lift the motor assembly out of the case.
3. Lay the unit on its side in V-blocks with the impeller (2) overhanging.
4. Remove the impeller retaining screw (26) and washer (25) with a socket wrench.
5. Tap the impeller hub with a soft hammer to loosen and pry the impeller off the shaft using opposed pry bars. Set aside the impeller key (32). Do not remove the mechanical seal parts above the impeller.
6. Scrape off any deposits on the impeller and inspect it for any breaks, cracks, or wear.
7. To reassemble the impeller on the shaft, insert the impeller key in its seat and coat exposed areas of shaft with anti-seize compound. Align the impeller keyway with the key and carefully push the impeller onto the shaft, tapping gently with a soft hammer. Be sure that the mechanical seal spring fits over the shoulder on the back of the impeller.
8. When the impeller is seated on the shaft, place washer over the end of the shaft and install and tighten the impeller retaining screw. Rotate the impeller by hand to ensure that it turns freely.
9. Set the motor assembly into the case and insert and tighten the screw.

REPLACEMENT OF MECHANICAL SEAL

1. Disassemble case and remove impeller as described in "CLEANING OR REPLACEMENT OF IMPELLER".
2. Pry the mechanical seal off the shaft with opposed straight bladed screwdrivers. **TAKE CARE NOT TO SCORE THE SHAFT.**
3. Clean the shaft and the seat for the stationary ring of any adhering particles or deposits before installing the replacement seal.
4. Check the replacement seal to ensure that it is the same type, shaft size and length as the original seal.

5. Apply a thin coating of lubricating oil or glycerin to the stationary ring. **TAKE CARE NOT TO MAR OR DAMAGE THE SEAL FACE.**
6. Position the stationary ring with its face toward the end of the shaft. Using a seal pusher, gently press the seal ring into its seat until it is fully seated. **APPLY EVEN PRESSURE TO SEAL FACE.**
7. Install the rotating ring with spring and bellows over the shaft until seal faces touch.
8. Assemble the impeller and case as described under "CLEANING OR REPLACEMENT OF IMPELLER."

DISASSEMBLY - BALL BEARINGS

1. Disassemble case and remove impeller as described in "REPLACEMENT OF IMPELLER".
2. Remove mechanical seal as described in "REPLACEMENT OF MECHANICAL SEAL."
3. Match mark motor cover and motor.
4. Remove motor cover and place it in an upside down position, but do not disconnect any wiring between motor cover and motor. Do not disconnect wiring to stator.
5. Locate wave spring inside bearing bore. Be sure that motor cover is adequately supported to avoid placing undue strain on the wiring.
6. Lift rotor assembly out of motor housing.
7. Using a bearing puller, remove small upper bearing (18), and larger lower bearing (16).

ASSEMBLY - BALL BEARINGS

1. Clean shaft of any dirt and deposits, making sure that it is free of any burrs.
2. Check replacement bearings to ensure that they are the same type and size as the originals.
3. Press on new bearings until seated. **APPLY NO FORCE TO OUTER RACE OF EITHER BEARING. PRESS ONLY ON INNER RACE.**
4. Insert rotor into motor shell until lower bearing is seated.
5. Place new o-ring into position at top of motor housing and place wave spring into bearing bore using a small dab of grease to hold it in position. Tabs on wave spring must face toward bearing.
6. Align match marks on motor cover and motor and carefully lower motor cover over upper bearing while keeping the wiring to the stator taut.
7. When mating surfaces of motor cover and motor touch, insert and tighten the hex head cap screw.
8. Assemble mechanical seal and impeller as previously described.

NOTE

See separate Submersible Sump Pump sheet for general Installation Operation and Maintenance instructions.

WEIL PUMP COMPANY INC.

EM-1408-2