

PROLINE HFS PUMP IMPELLER REPLACEMENT PROCEDURE



Fig. 1

WARNING: TO AVOID INJURY REMOVE ALL POWER TO THE PUMP PRIOR TO ANY DIS- ASSEMBLY PROCEDURE

1. REMOVE THE SCREEN- REMOVE THE (3) SELF-TAPPING SCREWS THAT HOLD THE INTAKE SCREEN TO BASE OF THE PUMP. SEE Fig.1.

(REFER TO PAGE 3 OF OPERATING MANUAL ZG90100 FOR DETAILED INSTRUCTIONS ON SCREEN REMOVAL).



Fig. 2a

2. REMOVE THE VOLUTE- USE A PHILLIPS HEAD DRIVER TO REMOVE THE SCREWS THAT HOLD THE VOLUTE TO THE PUMP BASE.

MODELS 90101 and 90102 - HAVE (6) SELF-TAPPING SCREWS THAT RETAIN THE VOLUTE TO THE BASE. SEE Fig.2a.



Fig. 2b

MODELS 90103 THRU 90106 - HAVE (4) MACHINE BOLTS WITH ACORN NUTS THAT RETAIN THE VOLUTE TO THE BASE. SEE Fig. 2b.

3. REMOVAL AND REPLACEMENT OF THE IMPELLER-

MODELS 90101 and 90102:

LAY THE PUMP ON ITS SIDE AND USING A PLASTIC HEAD Mallet GIVE A SHARP TAP TO THE IMPELLER BLADES IN A COUNTERCLOCKWISE DIRECTION. SEE Fig. 3a. CONTINUE TO UNSCREW THE IMPELLER FROM THE THREADED SHAFT TO REMOVE IT. REPLACE THE IMPELLER BY SCREWING IT BACK ONTO THE THREADED SHAFT IN A CLOCKWISE DIRECTION UNTIL HANDTIGHT. USING A HANDHELD PHILLIPS SCREWDRIVER RE-ATTACH THE VOLUTE WITH THE (6) SELF-TAPPING SCREWS THAT WERE REMOVED IN STEP 2a. FINALLY RE-ATTACH THE INTAKE SCREEN WITH THE (3) SELF-TAPPING SCREWS THAT WERE REMOVED IN STEP 1.

(DO NOT USE POWER TOOLS TO RE-INSTALL ANY OF THE SELF-TAPPING SCREWS)



Fig.3a

MODELS 90103 thru 90106:

USING A PHILLIPS HEAD SCREWDRIVER, OR 5/16" or 8 mm SOCKET, REMOVE THE BOLT LOCATED IN THE CENTER OF THE IMPELLER, SEE Fig. 3b. BY HOLDING THE IMPELLER AND LOOSENING THE BOLT IN A COUNTERCLOCKWISE DIRECTION. REMOVE THE BOLT & THE IMPELLER. BE AWARE OF THE WASHER BEHIND THE IMPELLER AS IT MUST REMAIN ON THE SHAFT OR BE PLACED BACK ONTO THE SHAFT BEFORE INSTALLING THE NEW IMPELLER. AFTER REPLACING THE IMPELLER TIGHTEN THE BOLT IN A CLOCKWISE DIRECTION UNTIL SNUG. NOW RE-ATTACH THE VOLUTE BACK TO THE PUMP BASE. **STOP AND REFER TO NOTE 1 BELOW BEFORE PROCEEDING.** RE-ATTACH THE VOLUTE WITH THE (4) MACHINE BOLTS THAT WERE REMOVED IN STEP 2b. USING A HANDHELD PHILLIPS SCREWDRIVER RE-ATTACH THE INTAKE SCREEN WITH THE (3) SELF-TAPPING SCREWS THAT WERE REMOVED IN STEP 1. **(DO NOT USE POWER TOOLS TO RE-INSTALL ANY OF THE SELF-TAPPING SCREWS)**



Fig. 3b



Fig. 3c



Fig. 3d

NOTE 1:

WHEN RE-ATTACHING THE VOLUTE BACK ONTO THE BASE OF THE MOTOR, BE SURE TO ALIGN THE TAB ON THE MOTOR SHOWN IN Fig 3c WITH THE SLOT IN THE VOLUTE SHOWN IN Fig 3d.