



BUILT FOR GROWTH

OVERHAUL MANUAL

Seawater Kit Installation

 **TSURUMI PUMP®**

Tsurumi

KRS815

KTZ33.7

LH311W

Seawater Kit Installation Guide

Purpose

The purpose of this installation guide is to provide instruction for the addition of a seawater kit to the respective Tsurumi pumps. The seawater kit will include a “seawater-resistant special cast iron impeller” and “galvanic anodes”. These components will enable about two years of service.

If upon inspection, disassembly, or testing a pump component requires replacement, use only Tsurumi replacement parts.

Replacement parts can be purchased through our dealers and distributors network or online at www.tsurumipumpstore.com

If there are any questions, feel free to contact us at tech@tsurumipumpstore.com.

Video Instructions

Per customer convenience, there are also video instruction manuals available for the KRS, KTZ, and LH pumps and seawater kits. The video instruction manuals may be found by following the respective link below:

KRS815: <https://www.youtube.com/watch?v=DrADdBCREP4>

KTZ33.7: <https://www.youtube.com/watch?v=gZEnLMPB4>

LH311W: <https://www.youtube.com/watch?v=Qw2jHJyUi9E>

Note

The pictures used in this guide contain images of the KRS815; however, an identical procedure may be followed for the seawater kit installation on the KTZ33.7 and LH311W. The LH311W will require the most work since it contains two impellers, separated by an upper and lower pump casing.

Disassembly

Make sure all necessary seawater kit components are ready for installation.

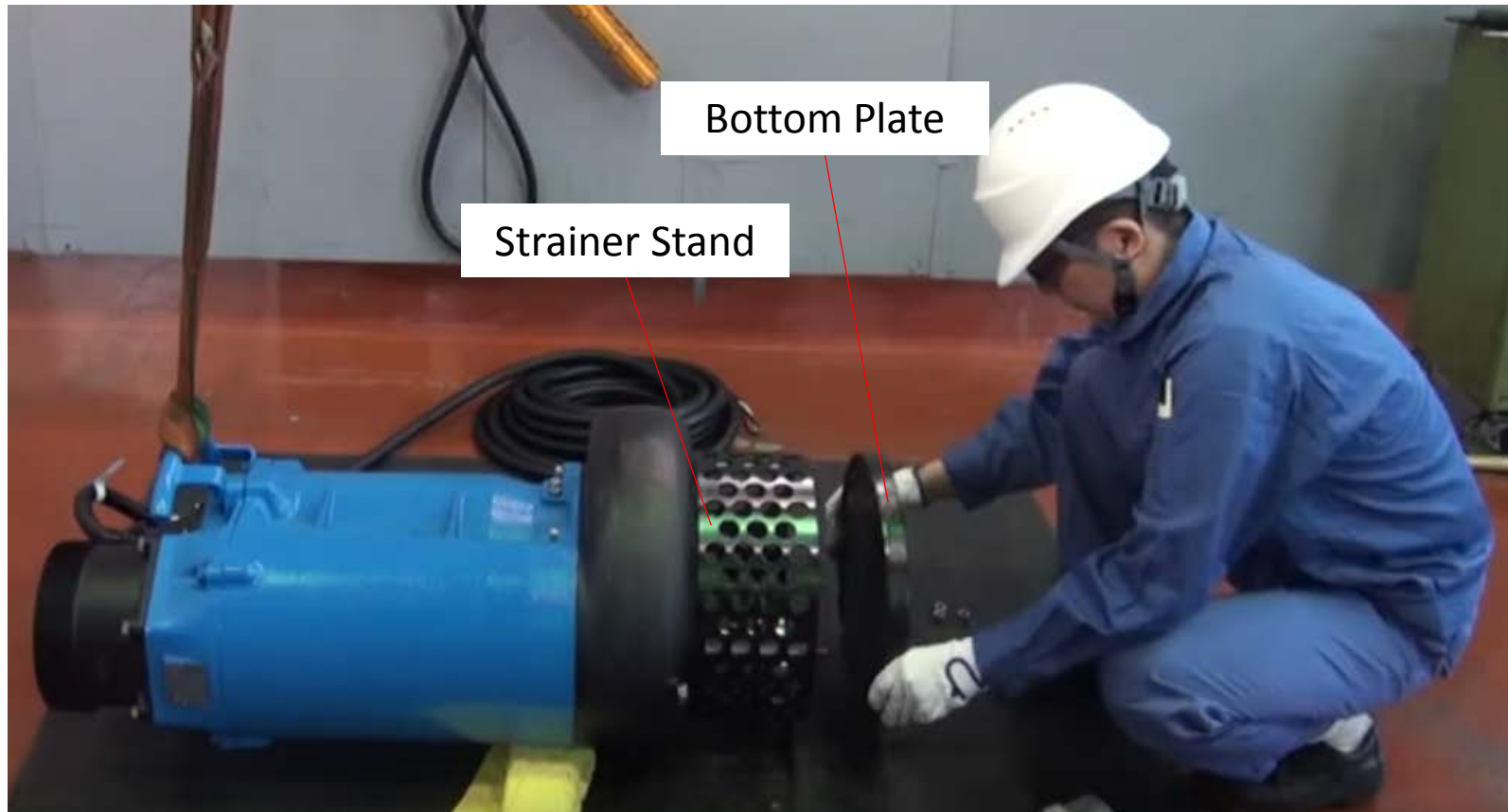


Disassembly – Impeller Replacement

Turn the pump on its side to access its bottom components.

Remove the nuts and plain washers.

Remove the bottom plate and then the strainer stand.



Disassembly – Impeller Replacement

Remove the hex bolts, the stud bolts, and the plain washers associated with each.

Remove the suction cover and the packing.

Hex Bolt

Suction Cover

Plain Washer

Stud Bolt



Disassembly – Impeller Replacement

Remove the impeller nut, spring washer, and the impeller thread protective cover. An impact drill will be useful in removing the impeller nut.

Remove the impeller and replace with the “seawater-resistant special cast iron impeller.”

Impeller Thread
Protective Cover

Spring Washer

Impeller Nut

Impeller



Re-assembly

Follow the previous instructions in the reverse order to re-assemble the pump.

Then proceed to install the galvanic anodes.

Galvanic Anodes - Fittings

Attach each galvanic anode to a fitting. Secure the fitting and node together with the hex bolts, nuts, spring washers and plain washers.



Galvanic Anodes – Seal Putty

Seal each fitting and anode with the seal putty.



Seal Putty
(tightly packed)

Galvanic Anodes - Installation

Remove the nut, washer, and bolt from the pump at the location seen in the respective picture. Refer to the following page for proper location of each galvanic anode. Apply thread locking fluid to the new bolt. Then replace the bolt, washer, and hex nut. Attach the galvanic anode and fitting to the bolt, and secure in place with the spring washer and nut. Follow the same procedure to attach the second galvanic anode.



Finished Installation



KRS815



KTZ33.7



LH311W