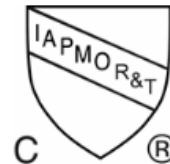




# HANS® Premium Water Redundant / Boost Pump

*Service Manual*

*10090-03*



Certified by IAPMO R&T against NSF/ANSI/CAN 61, 372 and CSA B483.1 for material safety, structural integrity and lead-free compliance.

Model Number: RBD-2501

## Document Revision Table

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ECR #	Revision	Date	Section(s) Revised: Description
1431	01	07/21/2021	Initial Release
1512	02	09/13/2022	Cover Page: Added CSA B483.1 certification and updated certification language/symbol Electronics Box Replacement: Updated attachment bolt PN from 9014 to 9303
1582	03	02/12/2024	Replaced all mentions of Hans and HANS™ with HANS®. Replaced PN 5263 with released Torq wrench PN 5344 in all areas where mentioned.

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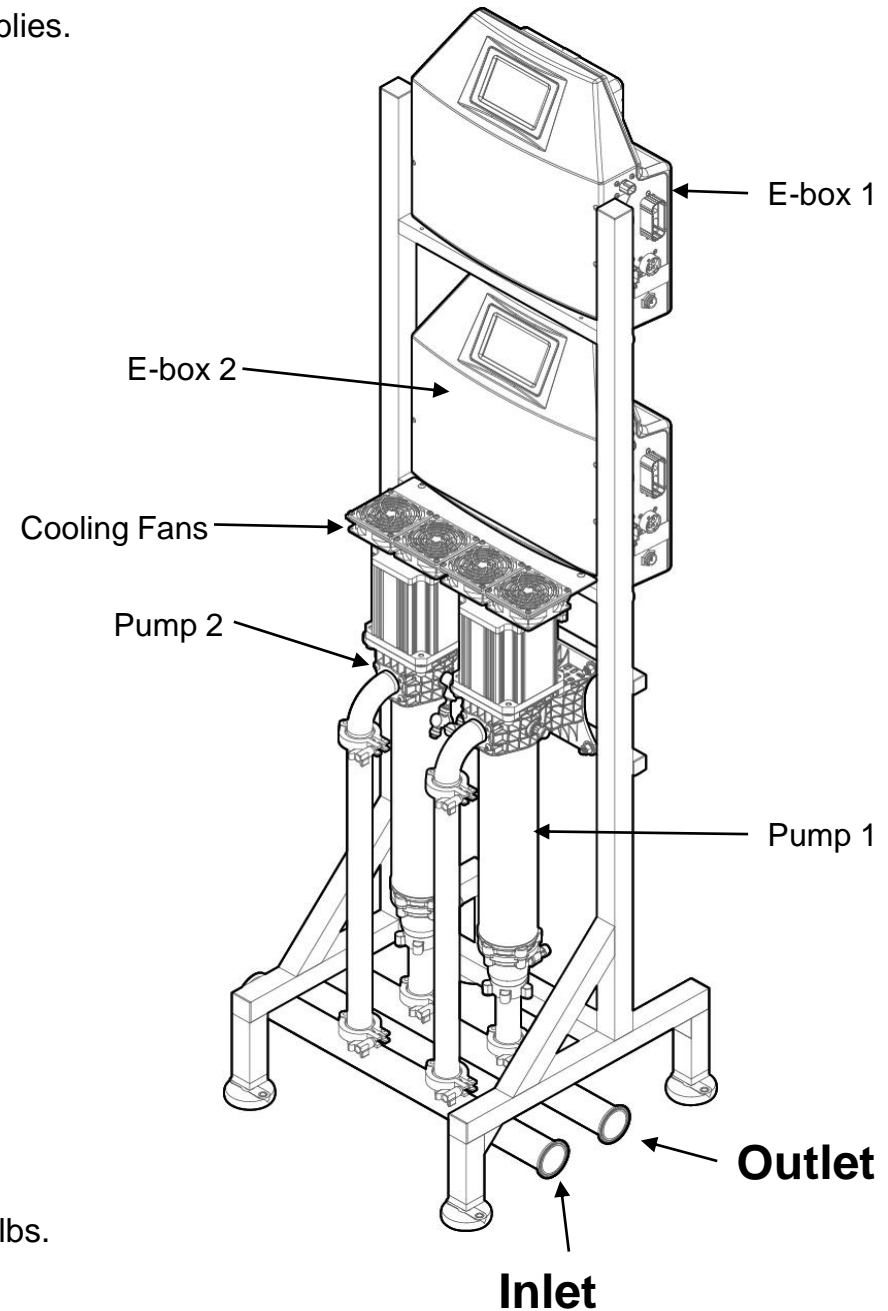
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# Pump Overview

System overview and identification of the various sub-assemblies.

## Features to Note

- Electronics Box (E-box) 1, controls Pump 1
- Electronics Box (E-box) 2, controls Pump 2
- The electronics boxes are linked and communicate to function together as redundant pumps.



Wire harnesses not shown. Total dry weight: 145 lbs.

# Electronics Box Replacement



Torque wrench (P/N 5344), 5/32" hex key (P/N 5225), 1/4" to 3/8" adapter (P/N 5296), 5/16" hex bit (P/N 5295), 9/16" wrench (P/N 5156)

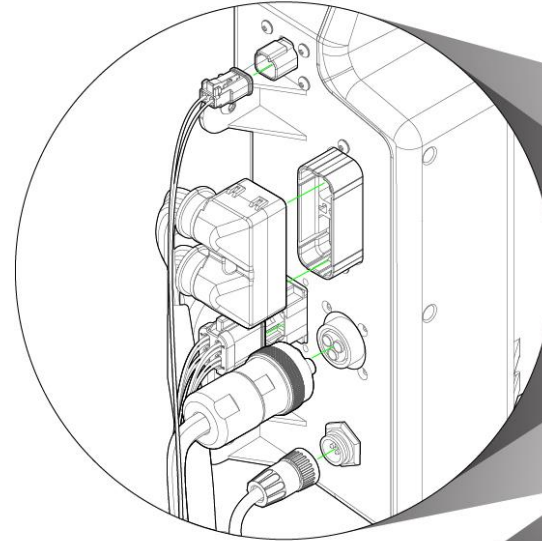
## Removal

1. Disconnect the power cord from the bottom of the electronics box.
2. Disconnect all wire harness connections from the side of the e-box. Remove the 40-pin harness using the 5/32" hex key (P/N 5225).
3. Remove the four (4) attachment bolts securing the e-box to the frame using the 5/32" hex key (P/N 5225).
4. Remove the e-box from the system.

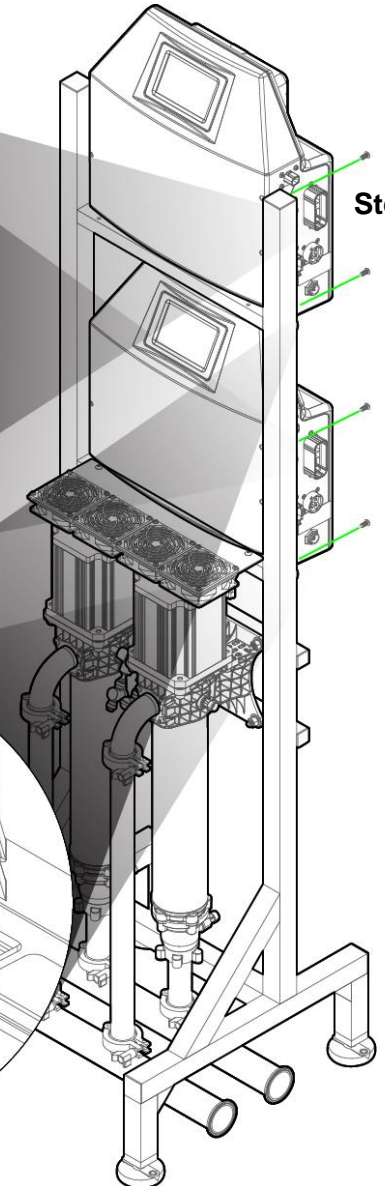
## Installation

1. Attach the new e-box to the frame using the four (4) attachment bolts (P/N 9303) tightened to **20 in-lbs.**
2. Connect the pump harness, 40-pin harness, CAN harness, and the fan harness to the side of the e-box. Tightened the 40-pin connector to **20 in-lbs.**
3. Insert the power cord into the bottom of the e-box.

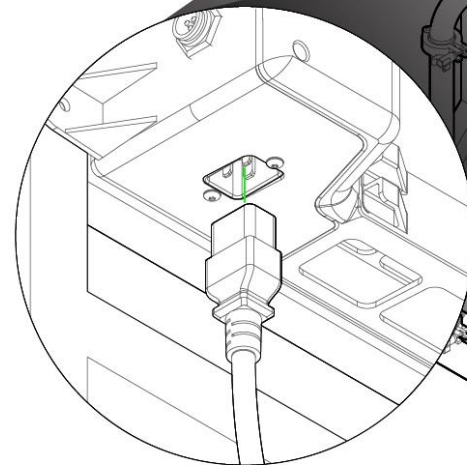
Step 2



Step 3



Step 1



# Pump Replacement

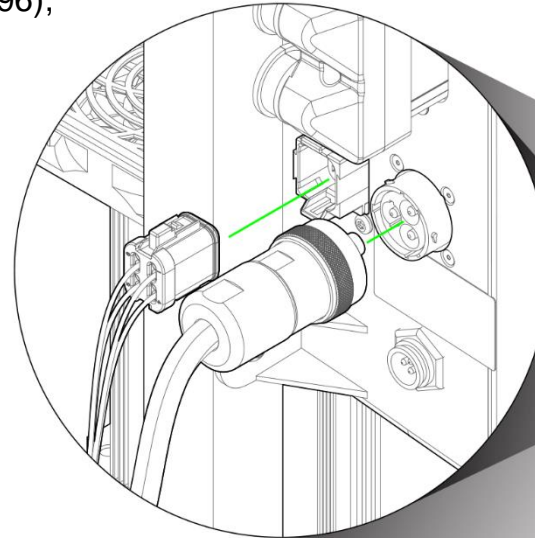


Torque wrench (P/N 5344), 1/4" to 3/8" adapter (P/N 5296), 5/16" hex bit (P/N 5295), 5/16" hex key (P/N 5226).

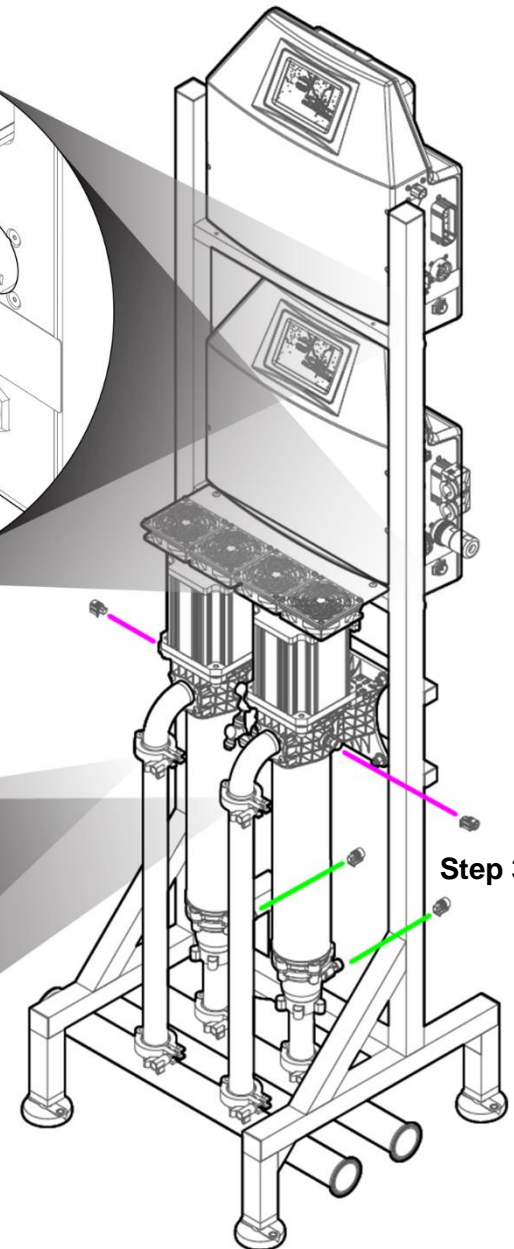
## Removal

1. Disconnect the power cord from the bottom of the e-box and sure the system is depressurized.
2. Disconnect pump harness from the side of the e-box.
3. Disconnect the top and bottom pressure sensor connections.
4. Remove the sanitary fittings for the pump inlet connection and pump outlet connection.

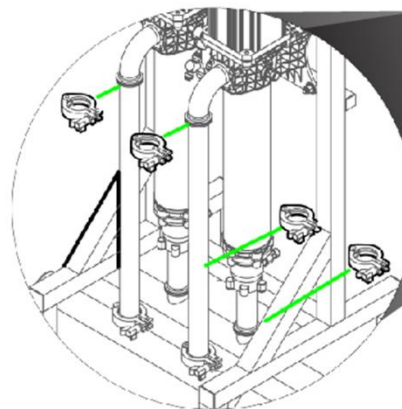
Step 2



Step 3



Step 4





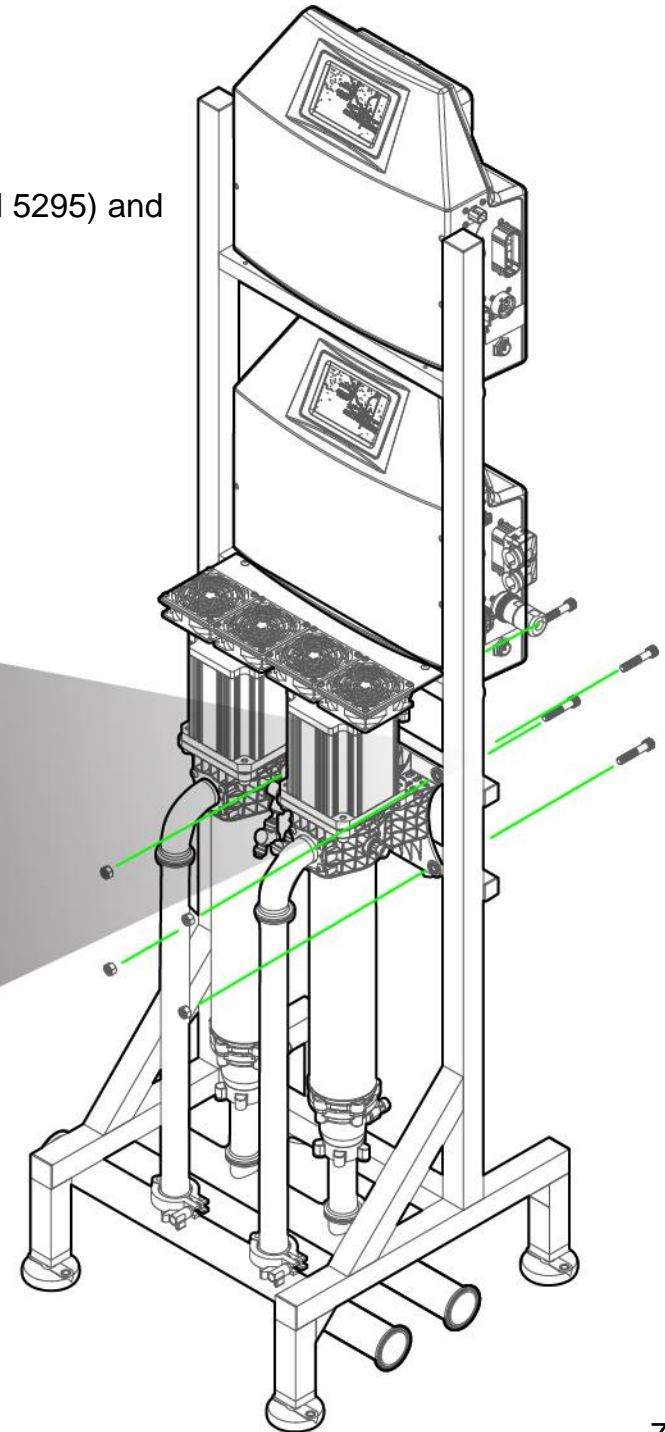
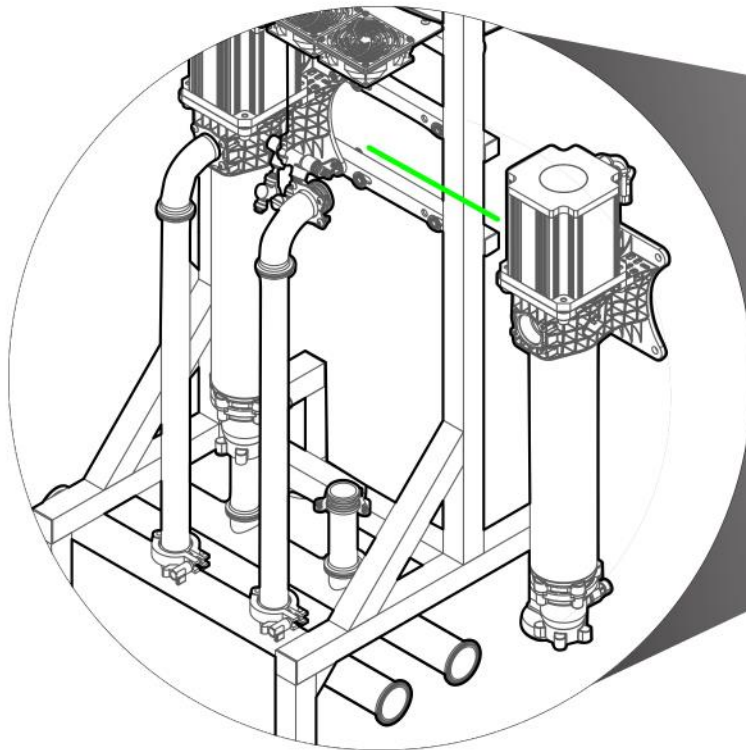
# Pump Replacement (continued)

## Removal (continued)


5. Remove the four (4) pump mounting bolts using the 5/16" hex bit (P/N 5295) and 9/16" wrench (P/N 5156).
6. Remove the pump assembly from the system.

## Installation

1. Complete the previous six steps in reverse.



# Pressure Sensor Replacement

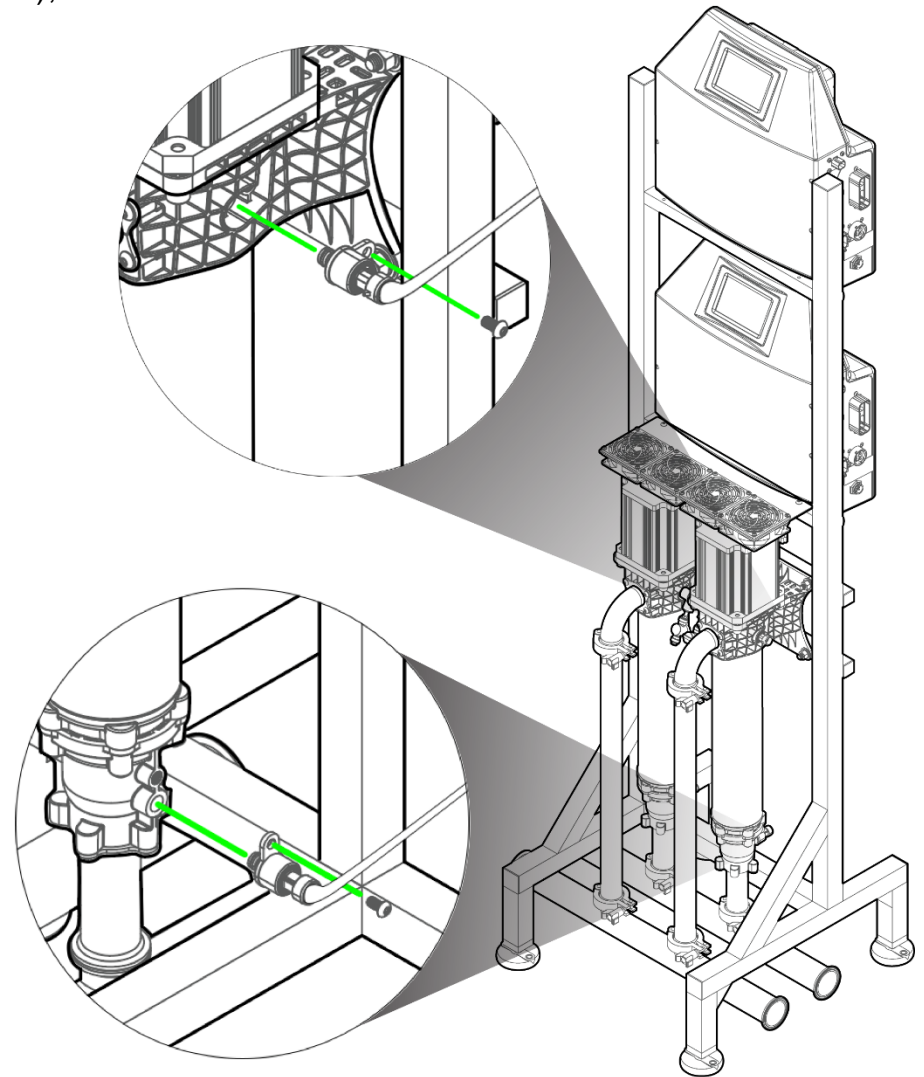
 Torque wrench (P/N 5344), 1/4" to 3/8" adapter (P/N 5296), 5/32" hex bit (P/N 5293), 5-32" hex key (P/N 5225).

## Removal

1. Disconnect the power cord from the bottom of the e-box and ensure the system is depressurized.
2. Disconnect the pressure sensor electrical connection.
3. Remove the pressure sensor attachment bolt using the 5/32" hex key (P/N 5225).
4. Remove the pressure sensor.

## Installation

1. Install a new pressure sensor.
2. Secure it using a single attachment bolts (P/N 9014) tightened to **20 in-lbs.**
3. Re-connect the pressure sensor electrical connection.
4. Re-install the right-side panel and lid.





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