

SERVICE BULLETIN

Subject: Envoy Conditioner Pump Head Bolts

Date: 8/11/14

Bulletin No. SB14-12

It has been brought to our attention that the Envoy conditioner pump head to motor bolts may not be tight on some conditioner pumps.

New Envoy lane machines and new conditioner pumps shipped between 2/1/2014 and 6/30/2014 may experience seepage of conditioner from the pump head to motor area. This can be fixed by tightening the pump head bolts to factory specifications.

Below are the instructions to remove and replace the conditioner pump and tighten the pump head bolts.

Tools Required:

- 3/8" drive ratchet and 3/8" socket, or 3/8" wrench
- 1/8" Allen wrench
- T20 Torx socket
- Torque wrench with Inch Pound or Newton Meter scale

Parts Required: None

Procedure

i **NOTE:** *It is not necessary to remove any of the conditioner pump hoses for this procedure.*

1. Relieve the conditioner pressure using the lane machine GUI as follows:
 - a. Select "Maintenance" > "Diagnostics" > "Conditioning"
 - b. Highlight the "Oil Pressure Valve" button and press "Okay" to relieve the oil pressure to zero as shown on the GUI digital gauge.
 - c. Check the analog gauge on the accumulator rail to verify zero pressure.
2. Locate and disconnect the electrical connector for the conditioning pump and the oil pressure valve.

3. Remove the small 10-32 x 1/2" long Allen head screw that secures the cross bracket to the conditioner pump oil/filter pan. Refer to *Figure 1*.

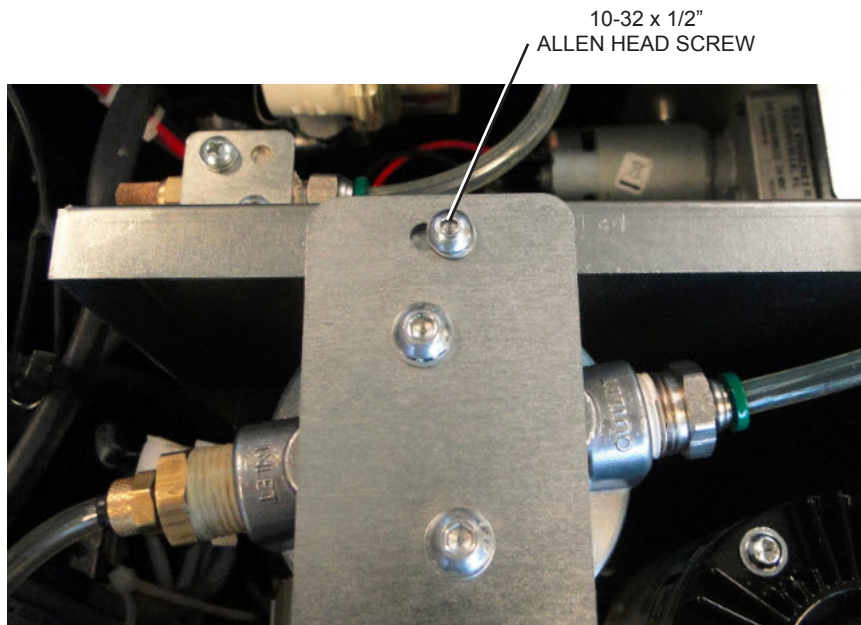


Figure 1

4. Remove the three conditioning pump bracket bolts located on the outside wall next to the waste tank. Refer to *Figure 2*.

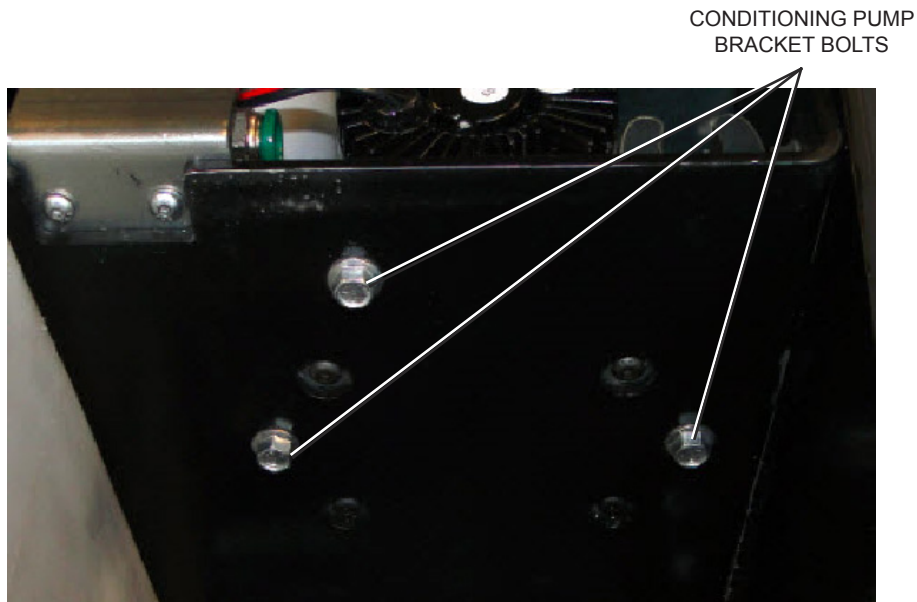


Figure 2

5. Push the oil pan wall away from the bracket so that the complete assembly can be lifted up and out of the oil pan tray. Refer to *Figure 3*.

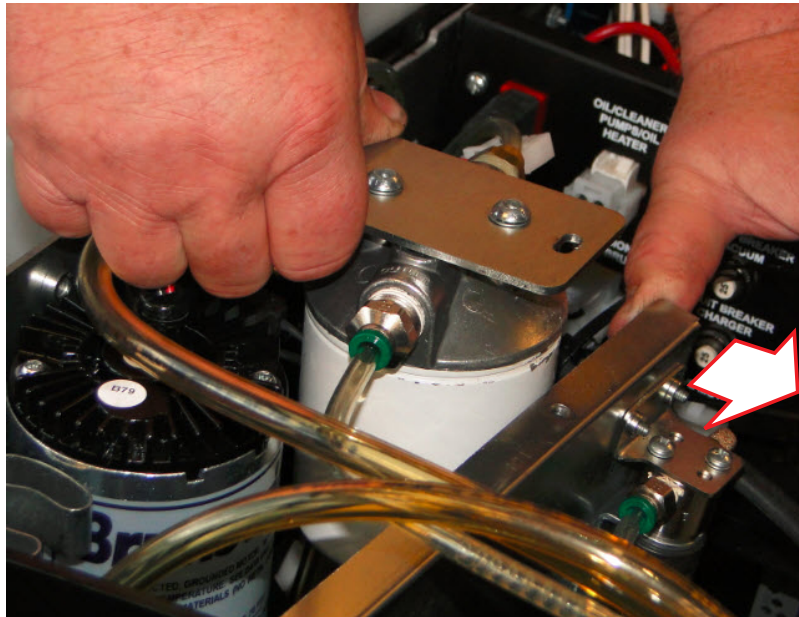


Figure 3

6. Lay the assembly across the dividing wall between the oil pan and center tub section. Refer to *Figure 4*.

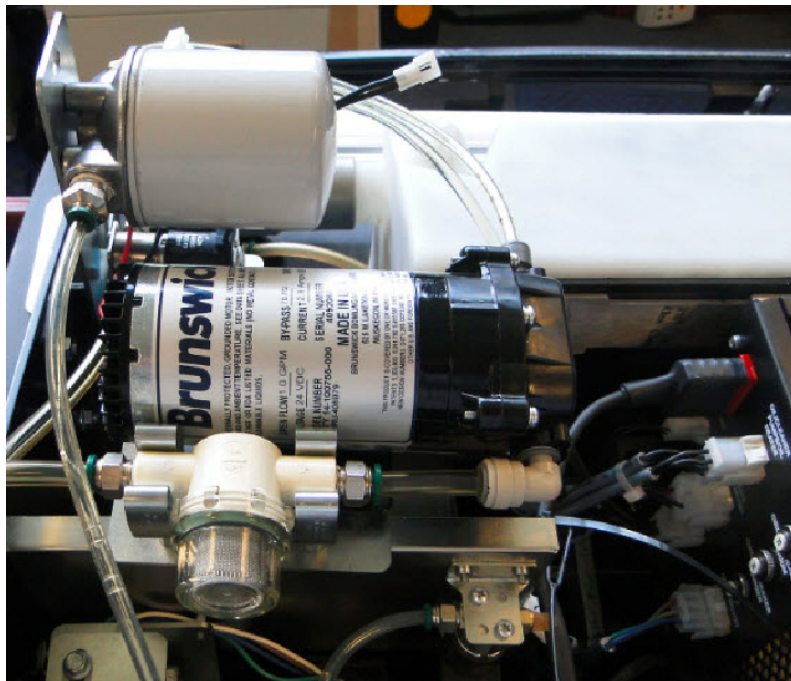


Figure 4

- Using a torque wrench and T20 Torx socket, tighten the seven screws to 26-28 Inch pounds or 3.1 Newton Meter Nm. Start with one screw and alternate sides of the pump head when torquing the screws. Refer to *Figure 5* for torquing sequence.

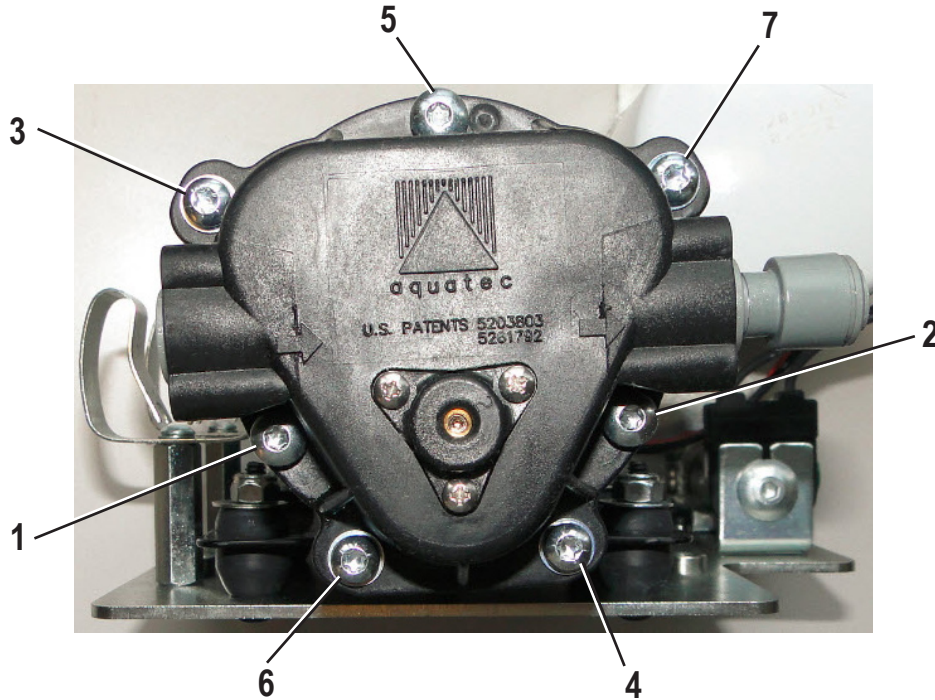


Figure 5

- Reverse the pump removal procedure (step 5 – step 2) to re-install the conditioner pump and bracket assembly back into the machine.

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