

DUSTTRAK™
EXTERNAL PUMP MODULE
PUMP REPLACEMENT KIT
MODELS 8530EP/8533EP

PUMP REPLACEMENT PROCEDURE

Thank you for purchasing a TSI DustTrak™ Model 8530EP/8533EP dust monitor. This guide will help you quickly replace the **Thomas Rotary Vane Pump Model #BL-G 085 M** in the DustTrak External Pump Module that comes with the DustTrak Model 8530EP/8533EP.

More detailed information is in the user manual provided with the instrument in the carry case. Please refer to the manual if you have questions on the operation of your dust monitor.

Setup Instructions

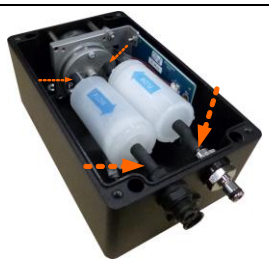
The DustTrak External Pump Module has a user-replaceable long-life rotary vane pump. To replace the pump in the External Pump Module, carefully follow the detailed procedures in this document. The following parts come with the pump replacement kit:

Qty.	Part Number	Description	Item
1	801799	DustTrak External Pump Replacement Kit	
1	6006603	DustTrak External Pump Module Pump Replacement Kit Models 8530EP / 8533EP Pump Replacement Procedure	

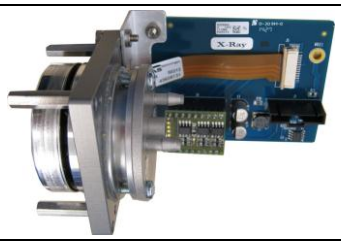
The following tools are required but **NOT included** in the kit:

Qty.	Part Number	Description	Item
1	N/A	2 mm HEX Ball Driver	
1	N/A	2.5 mm HEX Ball Driver	
1	N/A	3/16” Wrench	
1	N/A	#2 Phillips Head Screwdriver	

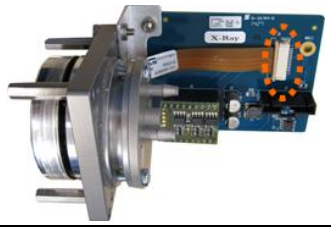
Disassembly

1. Observe ESD precautions.  2. Fully loosen four (4) screws on module cover. Screws do not need to be removed from cover. Set cover aside.	
3. Disconnect tubing from ports on pump.	

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4. Lift filters out of way and disconnect cable from PC board. (Remove and replace filters if needed.)	
5. Remove four (4) screws that attach pump to box. Set screws aside.	
6. Remove pump assembly from case.	
7. Disconnect ribbon cable from PC board.	
8. Remove two (2) screws from pump bracket to remove pump from bracket. Set screws, bracket with PC board attached aside.	
9. Remove four (4) hex standoffs from pump. Set standoffs aside.	

Reassembly

1. Observe ESD precautions.  2. Install four (4) hex standoffs on new pump.	
3. Install two (2) screws to attach pump to bracket.	
4. Connect ribbon cable to PC board.	
5. Place pump assembly in case.	
6. Connect cable to PC board.	
7. Install four (4) screws to secure pump.	
8. Connect filter tubing to pump.	
9. Install cover.	

NOTE

The external pump is completely powered by the DustTrak monitor. Do **NOT** attempt to power the pump module using an external power source.