

ECT Tube Replacement

Patent Pending

Maintenance Free Enhanced Cellular Technology Tube Replacement Instructions

This document describes operating practices and maintenance procedures applicable to ECT Tube Replacement manufactured by Performance Pulsation Control, Inc. (PPC). The information contained herein reflects recommendations based on industry best practices and recognized safety protocols. Use of the information and procedures contained in this manual is voluntary and is to be implemented at the sole discretion of the user. The user is at all times responsible for operating and maintaining pulsation dampeners in a manner that is safe, conforms to the owner's established business practices, and applicable regulations.

NOTE: Please read all instructions carefully before proceeding with the installation and operation of this equipment. Contact Performance Pulsation Control for assistance or questions.

MATERIALS NEEDED:

- General Hand Tools

INSTALLATION:

1. Shut down pump and bleed system pressure. Use bleeder valve on stabilizer to ensure no pressure is present in the case. Care should be taken to manage any fluid that comes out.
2. Loosen top as per proper method for style:
 - Clamp type - loosen top and open clamp.
 - Union - loosen top as per approved practice.
 - Thread top - loosen top using approved tools and practice.
3. Once top is loose, remove ECT top cap and tube assembly from stabilizer case.
4. Inspect and clean the inside of the case, any gasket sealing surfaces, threads and clamp (as applicable).
5. Lay the ECT tube and cap assembly on its side and locate the attachment pin that runs through the walls of the tube and through the eyebolts inside of the tube.
6. Using a punch or rod, of the same or smaller diameter to the mounting pin, and a hammer, drive the attachment pin out of the tube.
7. Pull the tube off and away from the eyebolts.
8. Place the new tube into position over the eyebolts and rotate it such that the mounting pin holes in the walls of the tube align with the eyebolt eyes.
9. Install new mounting pin (provided with kit) by driving it back through the holes in the tube and through the eyebolts. The ECT tube assembly is now ready for reinstallation into the stabilizer shell.
10. If replacing a union or threaded top version, install the O-rings on the new top (new O-rings included with tube replacement kit). Grease the threads, if applicable, with the appropriate anti-seize compound.
11. Insert ECT tube replacement assembly into stabilizer and secure in place.
12. If replacing a clamp type top:
 - Grease the new gasket (included with replacement kit).
 - Place gasket into position.
 - Replace clamp and tighten fasteners to secure cellular tube assembly.
13. Open bleeder valve and begin pump start-up procedure.
14. When fluid comes through the bleeder valve, close it. Care should be taken to manage any fluid that comes out.
15. Resume normal pump operation.



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