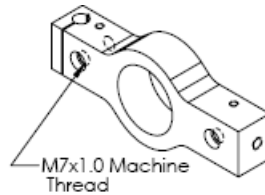


DIAGNOSTIC PROCEDURES

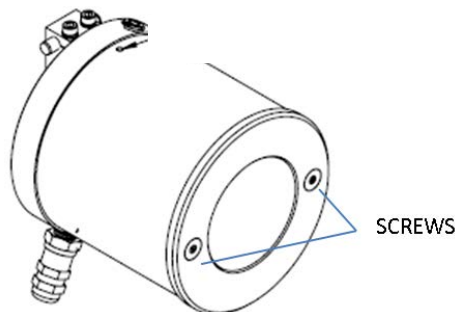
1. SRM

1. Having the SRM mounted on the pipe, turn ON the DPM
2. Make a visual of the SRM and confirm that the SRM is mounted on the pipe in accordance with the Installation & Operator's Manual requirements
3. Step 2 = TRUE ⇒ Step 4, otherwise ⇒ **Step 16**
4. Make a visual of the SRM and confirm that the striker executes the striking cycle without interruptions or delays
5. Step 4 = TRUE ⇒ Step 6, otherwise ⇒ **Step 16**
6. Connect a laptop to the DPM and open the monitoring program
7. Insert Ctrl+F1 to open the Advanced Setup Window (ASW)
8. Set the Striking Force to 1500
9. Insert Ctrl+F2 to open the Real Time Window (RTW) and check the FFT checkbox
10. Evaluate the overall intensity of the signal
11. Set the Striking Force to 10,000 and evaluate the overall intensity of the signal
12. Set the Striking Force to 15,000 and evaluate the overall intensity of the signal
13. Set the Striking Force to 20,000 and evaluate the overall intensity of the signal
14. Confirm that the overall intensity of the signal increased in accordance with the increase of the Striking Force
15. Step 14 = TRUE ⇒ **Test DPM & Cables**
16. **Turn OFF the DPM**
17. Take the SRM off the pipe
18. Hold the SRM with one hand by the shown below Mounting Bracket

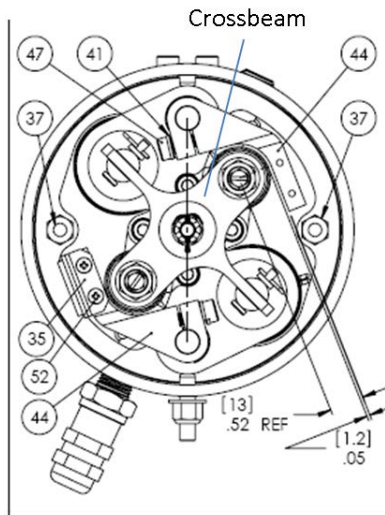


and pull the SRM housing back and forth along the direction of striking.

19. Make sure that the housing moves freely, and once released, returns back to its initial position without hesitations or delays
20. Step 19 = TRUE ⇒ Step 21, otherwise ⇒ **Fix SRM**
21. Unscrew 2 screws on the top plate of the SRM housing as shown in the sketch below



22. Locate the Striker Assembly as shown in the sketch below. Push on the Striker Assembly's crossbeam in the direction of the strikes. Then, allow the crossbeam to return back to its initial position without releasing the crossbeam; your fingers on the crossbeam should allow feeling the striker mechanism movements

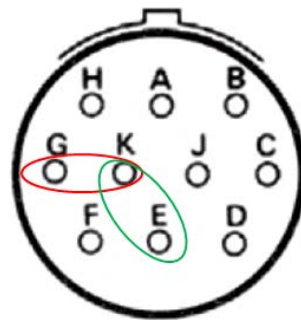


23. Confirm that the striking mechanism was moving freely without hesitations and delays

24. Step 23 = TRUE ⇒ Step 25, otherwise ⇒ **Fix SRM**

25. With the DPM unpowered, disconnect the cable that connects the SRM to the DPM

26. Measure the resistance between pins K and G and pins K and E of the SRM cable connector as shown in the sketch below. The resistance should be between 5 to 10 Ohms.



27. Step 26 = TRUE ⇒ **Test DPM & Cables**, otherwise ⇒ **Fix SRM**