Date: September 19, 2016
To: All Kidde® Fire Systems Pre-Engineered Distributors
From: Product Management, Pre-Engineered Systems
Subject: XV™ Control System Spool Assembly

IMPORTANT PRODUCT INFORMATION
Please share with your installation and maintenance personnel

Kidde Fire Systems has identified an issue with the detection line cable spools on older model XV Control Systems, P/N 87-120099-001, used in Kidde WHDR Wet Chemical and IND Dry Chemical Fire Suppression systems. Resin material used in spool manufacturing between January 2008 through June 2009 could potentially leach out over time, seizing the cable spool to the shoulder bolt, and preventing the spool from rotating freely (see Figures 1 & 2 in Appendix).

If the spool cannot be rotated, it will prevent the detection line from being properly reset once it has been released (e.g. after a routine functional test or in the event of an actual fire).

If a spool is rotated counterclockwise while seized to the shoulder bolt, it may cause the spool assembly to unscrew from the detection beam, which may leave the pawl and ratchet wheel partially engaged (see Figure 3 in Appendix).

CAUTION: Do not reset a detection line if the spool does not rotate freely on the shoulder bolt. Re-setting the detection line and control head with the shoulder bolt & spool partially unscrewed may result in unintended system discharge.

To properly reset a detection line, the cable spool and ratchet wheel MUST be able to rotate freely around the shoulder bolt that secures the spool and ratchet wheel to the detection beam.

NOTE: This does NOT pose a fire safety risk as it WILL NOT prevent the XV Control System from actuating as intended in the event of a fire. Actuation is not dependent on the ability of the spool to rotate, but rather, on the movement of the detection beam when the cable is released – either by separation of a heat detector link or operation of an inline remote release. Likewise, there is no adverse effect on system operation via the actuation latch, either by an independent remote manual release or operation of an electric solenoid, as these actuation methods are independent of the mechanical detection lines.

This issue does not affect the updated XV Control System P/N 87-120099-002.

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RECOMMENDED ACTIONS

No action is required if the spools are functioning properly. Should you encounter a seized spool during your next scheduled maintenance or after an actuation (i.e. during a functional test or system discharge) please take the following actions:

1. Complete and submit the attached Kidde XV Spool Assembly Replacement Request Form to receive a replacement parts kit, p/n 87-120073-001, for each affected control head. Each kit includes 2 spools, 2 shoulder bolts & 2 ratchet wheels.

2. Repair or replace the spool and shoulder bolt assembly per the attached XV Spool Assembly Repair & Replacement Instructions.

3. If new parts were installed, no further action is required.

4. If the temporary repair procedure was used per the instructions, replace the affected spool and shoulder bolt with new parts received per the Replacement Request Form at the next regularly scheduled maintenance.

Support / Feedback
For more information or if you have questions or concerns, please contact us at:

Regional Sales Managers: Domestic Click here or International click here
Vertical Market Managers: Click here
Product Management: (508) 881-2000
Customer Service: (508) 881-2000 Domestic_CS@kidde-fenwal.com
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Technical Support: (866) 287-2531 Kidde_TechSupport@fs.utc.com

We thank you for your continued business and support.
**APPENDIX**

**Fig 1. XV Control System Internal View**

- Detection Line 2 Shoulder Bolt
- Detection Line 1 Cable Spool
- Approximate location of date stamp (mmm yyyy)
- Detection Line 2 Cable Spool
- Actuation Latch

**Fig 2. Cable Spool Assembly**

- Ratchet Wheel
- Cable Spool
- Shoulder bolt
Fig 3. Ratchet Wheel Engagement

- Pawl
- Pawl & Ratchet Wheel Partially Engaged
- Cable Spool Partially Unscrewed
- Pawl & Ratchet Wheel Fully Engaged
- Cable Spool Properly Installed