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Pro29 BULLETIN

3G Mellow Failures

October 1, 2020

It has been brought to the attention of Cesaroni Technology Inc over the past few weeks that there has been a high failure rate on Pro29-3G Mellow reloads. We have been looking into this matter and have verified the anomaly which stems from an over-pressurization at ignition resulting in nozzle and/or forward closure blowouts.

Upon investigation it appears the cause is primarily due to an overly large ignition pellet. The issue is only in this one specific motor/reload (i.e. 143G33-9A), the rest of the Pro29 lineup is unaffected.

Unfortunately, it appears the pellet supplied during assembly of the Pro 29-3G mellow reload was too large. Due to the small throat of the nozzle in combination with the excess gas flow from the pellet, this can cause an over pressurization of the motor resulting in failure. CTI has already made corrective measures for all reloads/motors sent to dealers from October 1, 2020 onwards.

However, to address all the affected reloads currently in circulation CTI has developed a small “in-field” modification to reduce this ignition pressure spike. This modification can be done by the end-user during preparation for launch and simply involves trimming the pellet to a smaller size. CTI has successfully conducted an entire series of motor testing with this modification. We recently had a similar issue with the Pro38-1G motors. This same modification will apply to the Pro29 3G Mellow reload, EXCEPT that the grains in the reload can be a very tight fit in the liner, it is best to leave the grains in the liner when removing/replacing the pellet if this is the case. If the top grain containing the pellet is easily removed, you can perform this modification just like the Pro38-1G. A copy of the in-field modification instructions can be found on our website and will be distributed to the dealers for public distribution. We also hope that if any end-user of these affected reloads does not feel comfortable conducting this modification themselves, they can seek the assistance of any ProX dealers at the launch site during preparation for flight.

CTI recommends that all Pro29 3G Mellow reloads purchased before October 1, 2020 have this modification done before flight.

Please note this is **NOT** the propellant manufacturing date, but the date when reloads were shipped from our facility. The “propellant date” stamped on the outside of the reload is independent of the pellet manufacturing date (for which there is no identification). Additionally, please note that different pellets are used within the Pro24, Pro38, & Pro54 and therefore this issue is exclusive to the Pro29 3G mellow reload.

Dealers Inventory

To address the dealers current inventory of motors (Pro29 3G Mellow) that are affected but not yet sold to the general public CTI is asking all dealers to place a label on the affected reload packaging identifying it as requiring the

“in-field modification”. CTI can supply any dealers with either an electronic copy of label details for immediate printing or CTI can ship the label direct for them to be applied (at our cost). Please inform your CTI representative of which method works best for your time/schedule.

In addition, all future Pro29 3G Mellow reloads manufactured by CTI after October 1, 2020 will have an additional label (QC Approved) placed on the packaging identifying it as not requiring the in-field modification. This will be done in an effort to reduce confusion between future reloads. We will keep this identification process in place for the next 3 years (or longer if deemed necessary).

We sincerely apologize for any inconvenience or hobby rockets that have been affected by this issue. For any hobby rocket failures in flight that occurred as a result of this pellet issue please follow the regular warranty process by contacting your ProX dealer. The dealers will then provide all the details to CTI so we can ensure you receive the appropriate warranty.

Sincerely,

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