

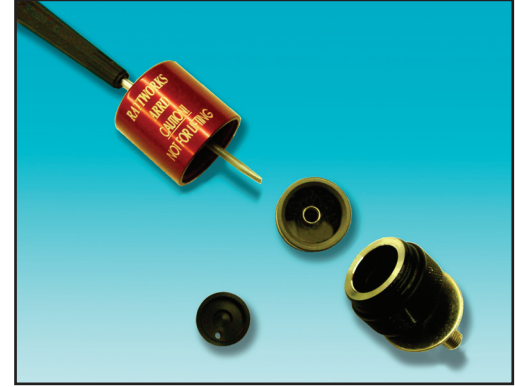
# Advanced Retention Release Device ARRD ASSEMBLY INSTRUCTIONS



First operation you will need 1 e match, pyrex and 1 small screw driver.



Unscrew base and then push piston up with your fingers to remove toggle.



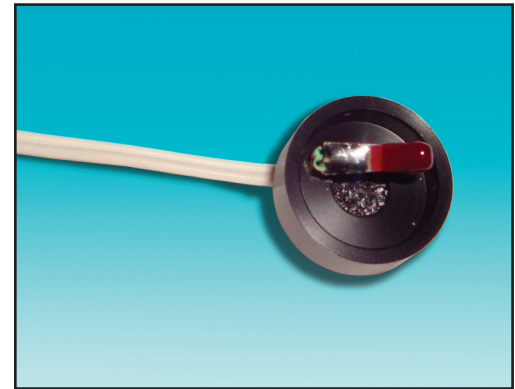
With screw driver push piston out, remove the 5 1/4" ball bearings, careful not to dislodge spring. Also remove the cartridge from base.



Place 5 1/4" ball bearings in red anodized body, like shown.



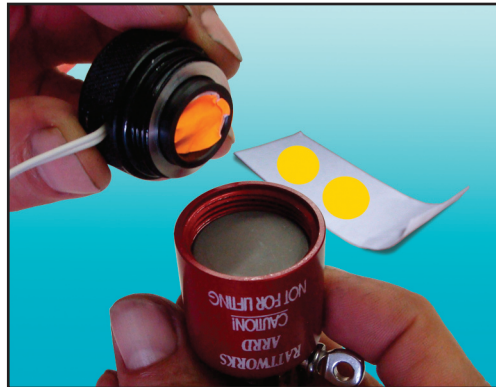
Place shackle and toggle assembly into red body, next push piston into body up to the end of the threads, as shown.



place pyrex P into cartridge, fill only the cavity. Place e match as shown.



Place a 3/4" dia. adhesive disk over the end of the cartridge as shown.



Holding the red body, toggle assembly and black anodized base, as shown.



Holding base and body, screw together by turning red body until firmly seated.



Grasp body and base assembly and firmly pull toggle as shown twisting and turning. If by chance it comes apart repeat steps 2, 3, 4, 5, 8 and 9. After use, clean all parts with gun solvent and relubricate o-rings with silicon grease and



reassemble to prevent lose of parts.

## Load Test at Left Proof Load Test at Right

Your ARRD has been manufactured to the highest aerospace standards, it has been proof load tested by an aerospace testing lab to 2,000 lbs. It is not to be used for lifting objects, its only to be used as a remote release mechanism. It can be activated by air pressure instead of pyrex. You will need compressing fittings, McMaster Carr part # 5779k242 it is for 1/8" OD nylon tubing, it is threaded for 1/16" pipe thread.

