

INSTRUCTIONS
LOADING and ASSEMBLY of
R.A.T.T.works
M-500 and K-500 BI-PROPELLENT
ROCKET MOTOR
(a.k.a. "FUEL INJECTED HYBRID")

Note: Your hardware may vary in
appearance from that shown.

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Bi-propellant injector
with alcohol plug installed.



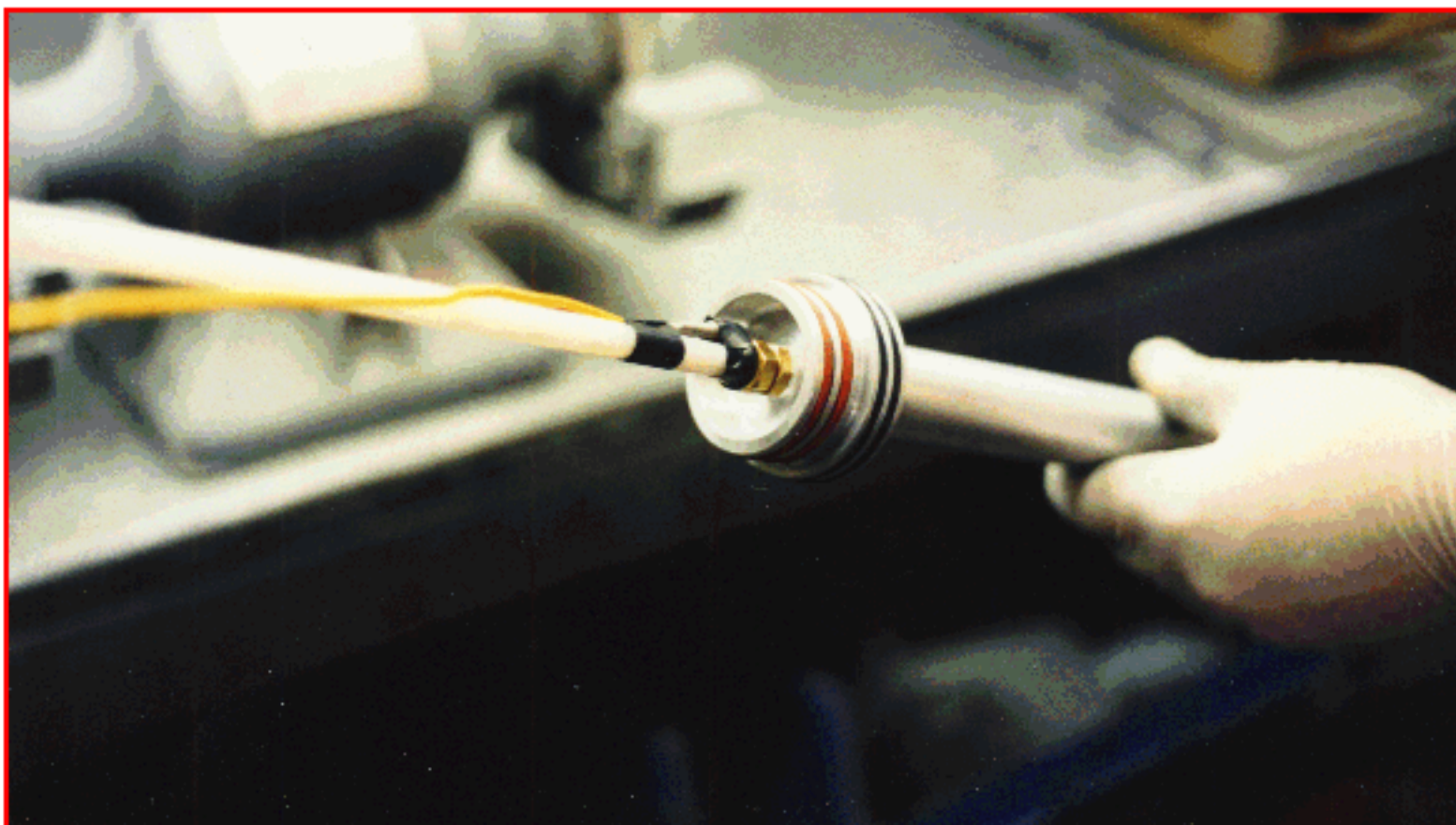
Nitrous fill line compression
fitting installed, Note alcohol
plug extending.



Installing nitrous fill line
to compression fitting.

Left, Dave pouring 1½ lb. of Ethyl alcohol into tank, Note sliding alcohol piston is at the bottom.

Below, attaching bi-propellant injector valve to alcohol tank.



Shown here with Firestar ignitor attached to nitrous fill line.



ABS hybrid starter grain being installed into combustion chamber.



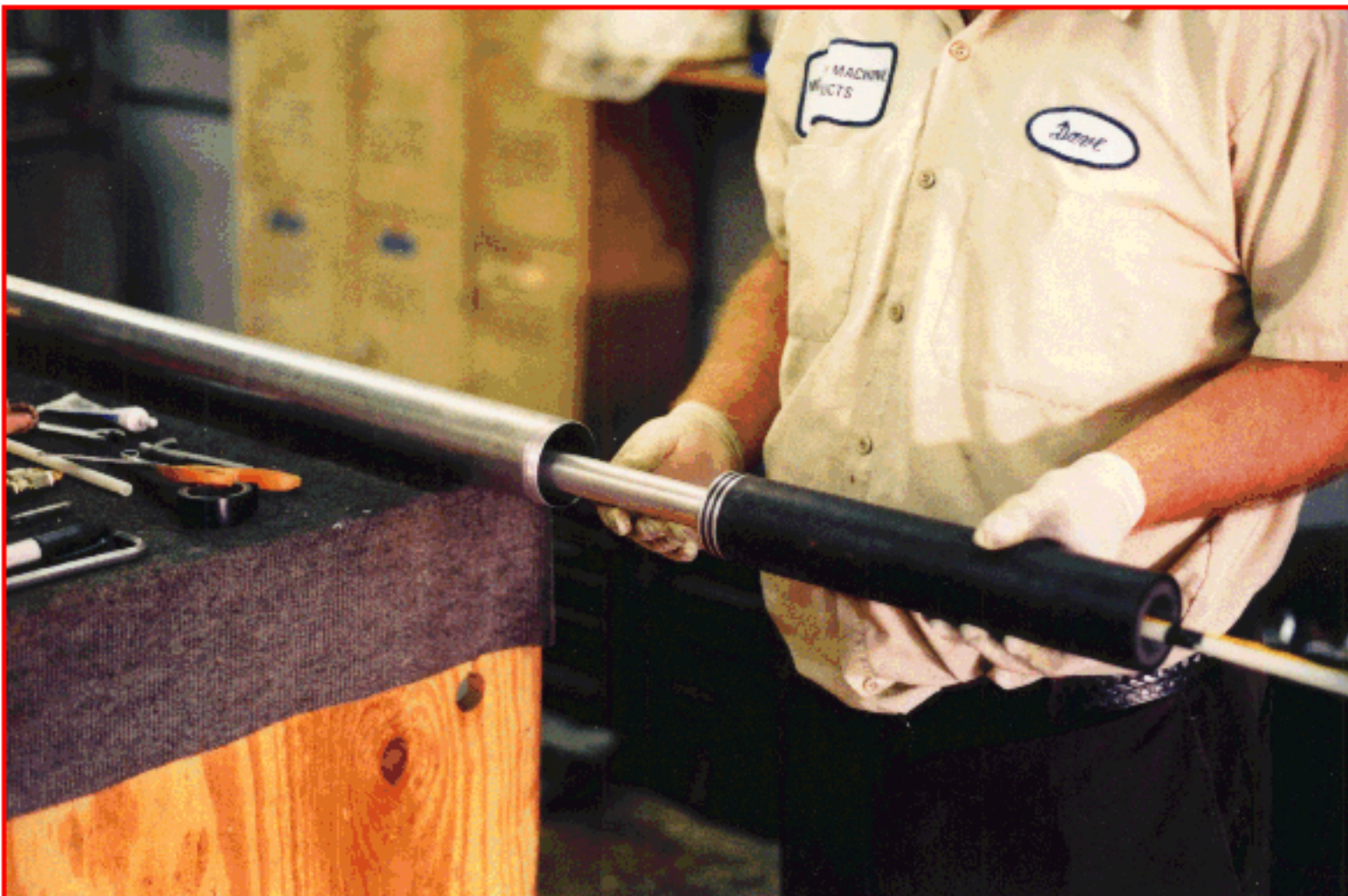
Hybrid starter grain shown installed.



Composite propellant ignitor grain shown installed on top of hybrid grain.



Attaching fully loaded alcohol tank and injector valve to the combustion chamber.



Sliding the assembly into the nitrous tank.



Attaching rear enclosure to nitrous tank.



Attaching vented forward bulkhead to nitrous tank.



Dave shown here with alcohol tank, injector and nitrous fill line.



Shown with the combustion chamber attached.



Shown here with fully assembled M-500 bi-propellant rocket motor, Note, red section is the smoke tracking chamber.