

**Project Name: 504 22 Hornet****Revised: 7/08/05****Project Number: 241451****R&D Engineer(s): Will B James, Vincent Norton****Marketing Manager: John Trull****Plant Contact: K. D. Lance****Status:**

- M/504 - 22 Hornet will require design changes to the current 504 platform in the following areas: bolt head, firing pin, ejector, magazine, follower, spring, magazine housing, box bottom and extractor. There will be 12 new components.
- Capital will be required for the firing pin stamping, magazine box, box bottom, and follower. The design will incorporate the 710 extractor. A drawing package was completed and sent to Mayfield on 6/9/05 for review of capital requirements. First pass capital requirements are \$125K.
- Mayfield will order barrel reamers, buttons, and chamber reamers for early barrel work.
- A 100 rd proof test was completed with one prototype gun. Head space did not move during test. The firing pin was redesign due to "die-stamping." 90% of the primers of the proof rds during testing. The second 100 rd proof test will be conducted with the new firing pin.
- The Bolt head, Bolt Body, and Firing Pin were redesigned making the firing pin round, thus the hole in the bolt head to accommodate the firing pin smaller. All these new components due in-house on July 15th.
- Barrels are currently being reworked to add extractor cuts and receiver/barrel alignment pin cut.

**Issues:****Action Items:**

Action Item	Status	Responsible	Date
1. Finished 504-22 Hornet barrels	Complete	Custom Shop	4/25/05
2. Test Receiver clamping & bolt locking system (1)	Complete	R&D	5/25/05
3. Redesign Firing Pin	Complete	R&D	6/3/05
4. Complete Drawing package	Complete	R&D	6/09/05
5. Order new bolt and components	Complete	R&D	6/3/05
6. Modify prototype barrels for extractor cuts	In Process	R&D	7/10/05
7. Test Receiver clamping & bolt locking system (2)	Waiting on Bolt	R&D	7/27/05

**Schedule / Key Milestones:**

Milestone	Current Date
EET	9/09/05
DAT I	1/13/06
T&P	TBD
Warehouse Position	TBD