

Project Name: 504 & 597 .17M2
Project Number: 241425
R&D Engineer(s): Will B. James, Vince Norton

Revised: 7/19/04

Marketing Manager: John Trull
Plant Contact: ED Thweatt

Status:

- 504:
 - 17M2 504 DAT test consisted of function (300 rds, 10 guns), plus accuracy.
 - Function Tested with old Mag Box: One magazine box failed to consistently feed. Changed magazine and proceed with no failures. Will test with new mag box and new Eley ammo when received.
 - Accuracy: 10 guns, average 5 shot group was 0.65" (Hornady ammunition)
 - Eley ammunition received is a max SAMMI dimensions for Rim diameter. Mag box cannot be loaded to full capacity. See Issues below.
- M597:
 - The bolt speed for the 17M2 was measured at 400 in/s. For reference the bolt speed for 22LR is about 250 in/s.
 - Will run a 10,000 round endurance test when ammunition is available verifying the additional bolt velocity does not cause additional problems.

Issues:

504:

1. New Eley and Hornady ammunition will not be in Etown until the last week of July.
2. The current Eley -17 Mach 2 cartridge is at SAMMI max dimension for the Rim diameter and overall length. Originally the magazine box was designed for SAMMI nominal values. This mismatch may disturb feeding. Testing to-date has not indicated that it's a problem. The Magazine boxes are harder to load than 22LR. As with the 17HMR, the 17 Mach 2 rds lay flatter in the magazine box. Again, test data has not indicated this is a problem. Eley has confirmed that the new cartridges Remington will receive will be at SAMMI nominal value for the Rim diameter. The cartridge length will remain the same.

Action Items:

Action Item	Status	Responsible	Date
1. Function Test (Early Eley Ammo)	Complete	R&D	6/23/07
2. Accuracy Test (Hornady/Eley Ammo)	Complete	R&D	6/25/04
3. 17 M2 test ammunition (Hornady) 50K rds	In process	Hornady	7/30/04
4. 17 M2 final Eley ammunition 100K rds	In Process	Eley	7/20/04
5. DAT Function & Accuracy Final Eley Ammo		R&D	8/06/04
6. M504 T&P guns in Etown		Mayfield	9/02/04
7. EET 597 – Endurance (10,000) rds	Waiting on ammo	R&D	8/13/04

Schedule / Key Milestones:

Milestone	Current Date
DAT M/504	8/06/04
T&P M/504	9/17/04
Warehouse Position	9/30/04