```
20-P-MOM-04-2
m = 900 kg
m_b = 15 \text{ kg} v_b = 20 \text{ m/s}

m_{\pm} = 60 \text{ kg} \mu = 0.3
        McVc = MbVb Vc = MbVb = 0.73 Mg
         mby = (mb+mt) vt vt = mby = ym, cmb+mt).
                               Ff= uN= mmg Ff= max
                                   Mrng = Max ax = Mg. same for target
        V+2 = v;2 + 2ad
Cannon: d = \frac{-v_i^2}{2a} = \frac{-v_c^2}{2a} = 0.0135 \text{ m}
Target: d = \frac{-v_1^2}{2a} = \frac{-v_2^2}{2a} = 2.713 \text{ m}
```