

John

Z-4-80

1) To date 4 different solutions are being looked at

- a) Alter configuration of safety button. One sample has been made and tried. Most of the problem has gone away but it is still possible to push the safety off. I feel the safety button can't be made any smaller
- b) A 788 safety arm has been assembled with a 581 safety button on it. The clearance height between the stack and the button was excessive but is no big problem to correct. The safety push off problem appeared to be correct but the serrations on the 581 safety button were harsh on the thumb. A change in the configuration with smoother edges would possibly correct this problem. Currently clam working on this and a better sample in 2 weeks
- c) Another sample of a safety arm will be made. In this sample, the location of the arm will be moved forward .100" and the safety button will be altered as in case A. A sample will hopefully be produced in 2 weeks.
- d) Finally, I have been investigating the safety detent system. I've been looking at the angles on the safety plunger and the safety arm. If the angles are made smaller or mismatched between the two parts, the safety forces will change. To date, $120^\circ \pm 100^\circ$ safety

arms have been tested with 120° , 100° - 90° safety plungers. Test results were 120° safety arm and 90° plunger giving 7.5" safe on and 3.0" safe off. The standard system $120^\circ + 120^\circ$ give 7.5" on and 2.0" off. Other angles on these parts are being made in the model shop. Also, I am investigating the possibility of changing the detents in the safety arm from the present location to the other hole drilled in it, or two angle detents in the arm. Investigation is continuing.

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