

January 18, 1962

M. H. WALKER

MODEL 700 SAFETY

Per request of Sales to make the Safety harder to push off, the following changes were tried:

1. Larger steel ball. - This did not work out well as Safety released more easily.
2. Larger nylon ball (.136) in lieu of steel. - This worked O.K. but cost too much per ball; and to alter Safety due to large ball (which was only close, standard size available).
3. Larger upper detent hole in housing. - This hole was opened up to .141-.145" from .133-.137; also the housing was hardened. Push off started at 5 lbs. and ended up slightly under 4 lbs. at the end of ten-thousand dry-cycles, indicating the detent spring fatigued. There was no gauling at the hole edge of the hardened housing.

It appears that the most satisfactory action is to alter the housings as indicated and revise the detent spring to avoid over stressing.

D. E. Bullis
Special Products Section

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