

WATCHES USING FRICTION STAFFS
(American Watches)

Waltham 3/0, 12s, 16s	Hamilton		Illinois	
	No. 992	16s	16s R.R. Elinvar	
	No. 992b	16s		
	No. 915	10s		
	No. 921			
Howard 10s No. 799 12s No. 560 16s No. 338	Hampden		Alden (B.W. Co.)	
	12s	Paul Revere	6/0	Central A
	8/0s	Mary Jane	6/0s	Central B
	11/0s	No. 11721		
on Moeris models	(Swiss Watches)		Admiral	
	Civatas	Meyer Studeli (MST)	(Cyma, Tavannes Tacy)	
	all models	12s	Os old model	
t pinlever watches			11 L	
			12s old model	
			16s old model	

The Hamilton friction staff is pictured in Figure 10. The Hamilton watch Company mark their friction staffs with the groove shown by the arrow. This type of friction staff is removed in the same manner as the Waltham type.

The Howard Watch Company used a friction staff similar to the type illustrated in Figure 12. The Howard factory recommended the removal of their friction staffs by placing the balance on a stump or a punch pointed to act as a stump. The hole in this flat stump should fit around the boss or hub in the balance wheel. The driving out punch is brought to this staff and driven out of the balance wheel. The old model Admiral, sometimes called Tacy, Tavannes or Cyma, have friction staffs that resemble the Howard model.

The type of staff illustrated in Figure 13 is used in some of the Central American models. Here the staff consists merely of a small, straight, tapered piece pivoted at both ends. This is driven into a one-piece tube, which also serves as the roller and safety roller. Examination of the balance will reveal that the post housing the hairspring is made up of the same piece and goes through a hole in the balance wheel and emerges from the other

side as the combination roller table and safety roller. This unit should not be removed.

The staff of such an assembly is removed by placing the balance upon an inverted punch or stump that has a flat face and a hole just large enough

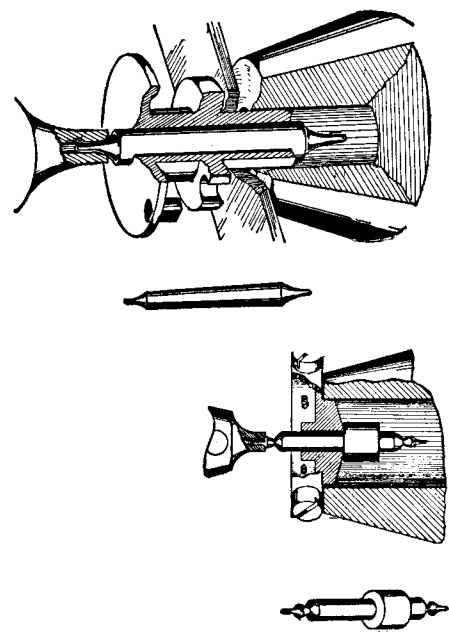


FIG. 12. Howard type staff.

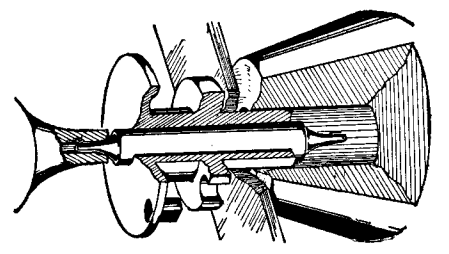


FIG. 13.

to accommodate the tube surrounding the staff. The illustration indicates a driving out punch forcing the staff out from the direction of its thinnest part towards the thicker end of the slight taper. This will loosen the staff sufficiently to remove it. The punch must not be driven down too far or too hard as this might injure the roller assembly.

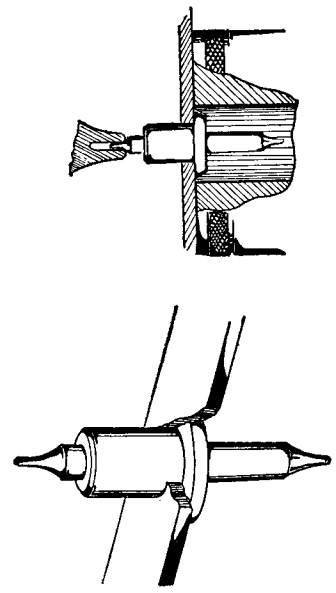


FIG. 14. Simple friction staff.

The cheaper Swiss watches such as the Jagot, MST, Medana, Avon Moeris have staffs such as illustrated in Figure 14. These are removed from the balance wheel simply by selecting a hole in the staking table