

ABSTRACT**MULTI-WAY DOOR LOCK**

A modular lock that uses a rotary crank mechanism to interlink at least two locking mechanisms for sequential operation. The present lock is operable between a release position, an intermediate single locking position and a double locking position. In the release position, both locking mechanisms are unlocked, allowing the user to open the door. In the intermediate single locking position, the first locking mechanism is moved to the locking position, while the second locking mechanism remains in the unlocked position. In the double locking position, both the first and second locking mechanisms are moved to the locking position to provide extra protection against the door being forced open. A door with a lock according to the present invention opens and closes just like a normal door. A normal downward turn of the door handle opens the door. The handle, however, can be pushed upwards to give the second locking feature.

FIGURE 2A