



INSTRUCTIONS

SPIRAL LOCK REMOVAL TOOL

LOCK PREPARATION: Some piston manufacturers current design locks must be modified before installation. Figure 1 shows an unmodified lock. The radius where the removal tang meets the lock o.d. **must** be ground straight on a bench grinder so that it looks like Figure 2. When doing so, hold the lock vertically so that grooves left by the grinding wheel run lengthwise. This will promote smoother lock removal. Exercise care when spreading the lock apart during grinding; be certain to return to its original shape and thickness. Make sure the modified tip is installed **outward** during assembly.

LOCK REMOVAL: Do not attempt to remove unmodified locks with Allstar Spiral Lock Removal Tool, damage to the tool will occur. Select the Allstar Spiral Lock Removal Tool with the head that matches the wrist pin hole diameter. Insert the head into the pin hole and carefully engage the modified tip of the spiral lock (see LOCK PREPARATION instructions above). Make sure that the tool is seated flat against the face of the lock. Slowly rotate the handle **clockwise**. The head will go behind the outer edge of the lock, pulling the tip in toward the center of the pin hole. Keep turning the removal tool until the spiral lock is completely removed. Remember, this is not a pick, always use a rotating motion to prevent tool damage. If problems occur while removing the lock, the tip angle may be too steep. Remove the lock by conventional means and make sure all future locks are modified.

Figure 1
(unmodified)



Figure 2
(modified)



Allstar offers other correct spiral locks to be used with removal tool:

Part No.	Description
ALL96455	Spiral lock .927 x .042 (4-pack)
ALL96456	Spiral lock .990 x .042 (4-pack)

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