

The Crank Extractor System is designed to renew the extracting threads in bicycle crank arms. It is a common occurrence to have the threads of a crank arm pull out due to improper tool usage, undersized tool dimensions, or just bad luck. This system will permit the original 22x1.0 mm thread to be replaced by a 24x1.5 mm thread. The “one key removal” extractors are then installed for better-than-new operation. The included shop type extractor is best used to remove the crank, especially if it is exceptionally tight. The dust cap extractors can be used thereafter. The tap includes pilots for square taper and spline type spindles. To extract the arms from nutted type spindles, a special tap pilot with a 10x1.25 mm thread is included. A pilot is included for use with the ISIS® or Shimano® spindles with a 15 mm thread. It may be a good idea to try using a “trashed” crank at first to get the feel of using this tool.

1. Clean the inside of the crank arm, removing any hanging threads, and be sure to remove the washer if it is still there.
2. Install the pilot in the end of the bottom bracket spindle.
3. For ALUMINUM, liberally apply tapping fluid to the inside of the hole. Put a little on the pilot and the tap to be sure there is sufficient lubrication.
4. Using a 19 mm socket in a ratchet, proceed to install the tap being sure to use inward pressure on the tap especially until the first thread is completed. From there, the tap will feed itself.
5. Most likely it will be necessary to remove the tap after one or two revolutions to clean out the chips from the hole.
6. Clean the new threads and use the shop type extractor to remove the crank. When removing the crank from a stud type spindle, use the fully threaded hex head bolt included with the set. For spindles with 15 mm threads, use a spacer on the end of the spindle.
7. To install the dust cap extractors, install the 8 mm Allen head crank bolt, then the brass washer, applying a little grease on both. Then press the dust cap/extractor until it is flush with the outside of the crank. It is recommended to use some bearing mount type Loctite® to keep it in place. For Shimano® Pipe bottom brackets, use the original bolts with the plastic washer in place of the brass washer supplied with the kit. Some bolts may need a slight reduction in their diameter by careful use of a grinding wheel.
8. Remove the arm by backing the crank bolt out of the spindle while holding the dust cap/extractor with a pin tool. Remember to give the Loctite® time to set up.

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