

Armature Pinion Puller & Press Set

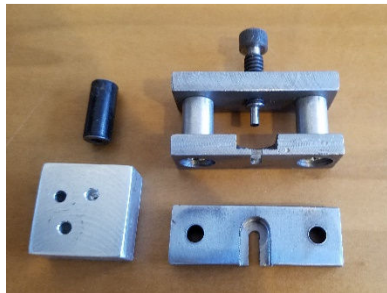
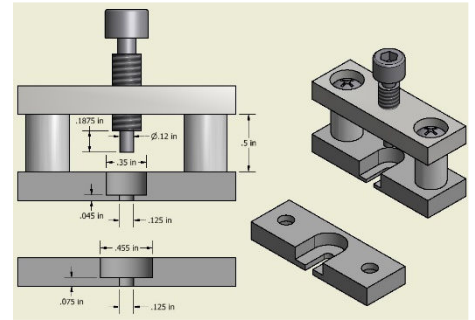
- This tool was designed to pull & replace stripped or worn out pinion gears on the armature used in many Lionel Trains

- Can be used in an Arbor Press.

- The tool is machined out of solid aluminum Shaft Block & Pinion Press, Steel Crossbar & Lower Jaws

- Shaft Block has (3) 1/8" hole at 3/16", 3/8" & 1/2" depths. Used for holding shaft at 90 degrees when pressing pinion gear on w/o pressing on the commutator. Also when pressing in a new shaft, it will fully support the commutator.

- See drawing for max gear sizes



Kit includes:

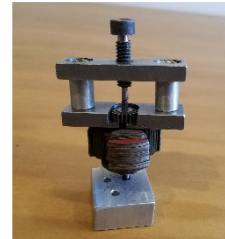
Pinion Puller

Shaft block (Updated)

Pinion Press

Lower Jaw for small Pinions

Lower Jaw for large Pinion (New)



Direction

1. Removing Pinion Gear: Before pulling gear off measure the offset of the gear to the end of the shaft & press gear back to that same offset.



2. Slide the Armature into the puller.



3. Tight the screw so the pin presses straight on the end of the shaft. tighten the screw until shaft is pressed out of pinion gear.



Continue

4. Install Pinion Gear: Place the armature shaft with the commutator side down into the Shaft Block. There are two holes at different depths. You want to use the hole that will NOT let the commutator touch the shaft block, you don't want to move the fields on the shaft..



5. Start the pinion gear on the shaft by hand.



6. Place Shaft Block, Armature & gear on a Arbor Press

7. Place the Pinion Press over the end of the shaft and **VERY CAREFULLY & SLOWLY** start to press the gear down the shaft. Do very little amounts and check often and set back to the offset you measure in step 1. Be carefully you can press gear to far on easily.

