

## Assembly Instructions for:

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The Push-Puller is designed to quickly remove or install gears, bearings, pulleys, couplings, sprockets, shafts, and other press-fitted parts without damage to the part. A variety of adapters, attachments, and legs may be used with the push-puller to apply either pushing or pulling force.

### Assembly

1. Consider how the tool will be used, and determine whether the forcing screw will be pushing or pulling.
  - **If the forcing screw will be pushing** (removing a gear from a shaft):
    - a. Insert the forcing screw into the cross block with the forcing nut and washer assembled **below** the cross block. See Figure 1.
    - b. Slide a leg assembly into each end of the cross block with the sliding plates and nuts assembled **above** the cross block and the washers assembled **below** the cross block. See Figure 1.
  - **If the forcing screw will be pulling** (removing a shaft from a housing):
    - a. Insert the forcing screw into the cross block with the forcing nut and washer assembled **above** the cross block. See Figure 2.
    - b. Slide a leg assembly into each end of the cross block with the nuts and washers assembled **above** the cross block and the sliding plates assembled **below** the cross block. See Figure 2.

**Caution:** To help prevent personal injury caused by tool failure, the sliding plates **MUST** be assembled on the opposite side of the cross block from the forcing nut.

2. Regularly clean and lubricate the forcing screw to ensure the correct operation of the tool.

### Safety Precautions

**Caution:** To help avoid personal injury or equipment damage,

- Wear eye protection that meets the requirements of ANSI Z87.1 and OSHA.

- The tool setup must be rigid and aligned with the part.
- Do not couple puller legs together. This reduces the tonnage capacity and increases the chance of tool or equipment damage.
- Always use the shortest legs possible for an application to reduce the chance of tool or equipment damage.
- Cover the tool setup and part with a protective blanket (see Power Team catalog) or canvas before applying force, because the high forces being exerted on the part being pushed or pulled can cause breakage.
- Apply force gradually. The part should "give" a little at a time. Do not try to speed the operation by using an impact wrench on the forcing screw.
- If maximum force has been applied, and the part has not moved, use a tool with a larger capacity. Do not hit the part with a hammer in an attempt to jar it loose.

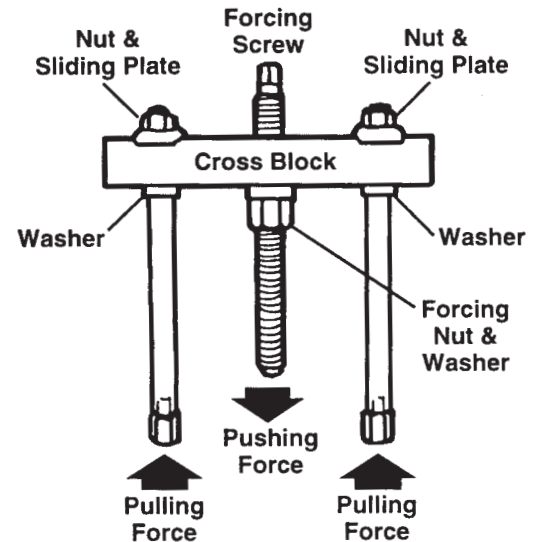


Figure 1

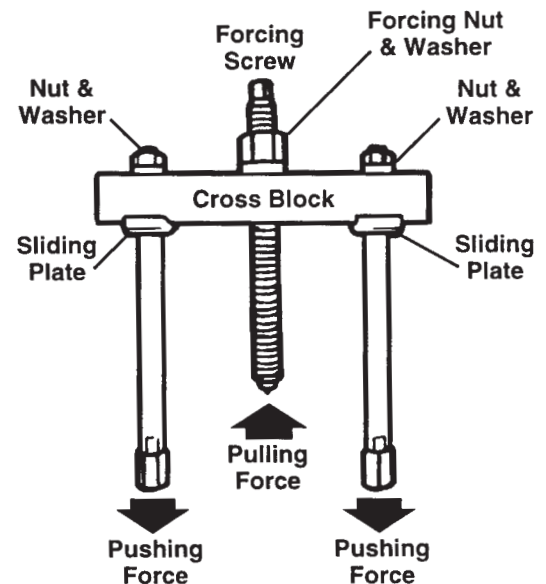


Figure 2