

TX-CHRK CHIPPING HAMMER THROTTLE REPAIR KIT INSTRUCTIONS

The tools in this kit have been designed to remove and reinstall the Throttle Valve and Push Pin Bushings in various models of Chipping Hammers manufactured by the following companies: *Texas Pneumatic Tools, American Pneumatic, Continental, Chicago Pneumatic (except Simplate tools), Harper, Ingersoll-Rand, Jet, Kent and Thor.*

- There is no particular sequence for removing or replacing the Throttle Valve Bushing (TX-01004) or the Push Pin Bushing (TX-01007).
- The Push Pin Bushing (TX-01007) might separate during removal because the major thread diameter of the Push Pin Bushing Tap (TX-CHRK-09) is very close to the outer diameter of the Push Pin Bushing. If this happens, remove the first piece and repeat the steps for the second.
- All handles are not the same even if purchased from the same manufacturer. The critical dimension is the distance between the bottom end (larger diameter) of the Throttle Valve Bushing (TX-01004) and the end of the Push Pin Bushing closest to it. When assembled, the Throttle Valve (TX-01003) should not bottom out against the end of the Throttle Valve Push Pin (TX-01006) or Push Pin Bushing before it has a chance to seat within the Throttle Valve Bushing. Normally, if the Push Pin Bushing extends 1/8" to 3/16" into the slot for the Throttle Lever (TX-01010), the Throttle will work as designed.
- As mentioned above, all handles are slightly different. Use the Setting Tool (TX-CHRK-03) to press the Throttle Valve Bushing into position. The bottom edge of the knurled portion of the Setting Tool will align with the beginning of the threads in the throttle port of the handle. To ensure the correct positioning for the Throttle Valve Bushing, insert the Throttle Valve Push Pin, Throttle Valve and Throttle Valve Spring (TX-01002) into the handle. Screw the Throttle Valve Plug (TX-01001) into the port and check the distance between the Throttle Lever and the Throttle Valve Push Pin. The Throttle Lever should be relaxed with approximately 1/8" of play. If there is no play between the Throttle Lever and the Throttle Valve Push Pin, the tool could idle when compressed air is connected. If there is too much play, the Throttle Valve Push Pin will not engage the Throttle Valve with enough length to allow maximum compressed air flow to the tool.
- It is necessary to start over if the bushing is pressed in too far.

TX-CHRK PARTS LIST		THROTTLE PARTS LIST	
PLASTIC CASE	TX-CHRK-00	THROTTLE VALVE PLUG	TX-01001
THROTTLE VALVE BUSHING PULLER	TX-CHRK-01	THROTTLE VALVE SPRING	TX-01002
PUSH PIN BUSHING PULLER	TX-CHRK-02	THROTTLE VALVE WITH "O" RING	TX-01003
SETTING TOOL	TX-CHRK-03	THROTTLE VALVE BUSHING	TX-01004
BEARING FIXTURE ASSEMBLY (05, 06, 14 & 15)	TX-CHRK-04	THROTTLE VALVE "O" RING	TX-01005
BEARING FIXTURE HOUSING	TX-CHRK-05	THROTTLE VALVE PUSH PIN	TX-01006
BEARING FIXTURE RETAINING RING	TX-CHRK-06	PUSH PIN BUSHING	TX-01007
HEX NUT	TX-CHRK-07	7/8"- 24 x 3/8" FPT PERMANENT BUSHING	TX-01008
THROTTLE VALVE BUSHING TAP	TX-CHRK-08	THROTTLE LEVER PIN	TX-01009
PUSH PIN BUSHING TAP	TX-CHRK-09	THROTTLE LEVER	TX-01010
PUSH PIN BUSHING REAMER	TX-CHRK-10	STOP PIN	TX-01017
TAP GUIDE BUSHING (Larger ID Hole)	TX-CHRK-11	I-R THROTTLE VALVE	HH-602*
REAMER GUIDE BUSHING (Smaller ID Hole)	TX-CHRK-12	I-R THROTTLE VALVE BUSHING	HH-603*
PUSH PIN BUSHING REAMER (For IR Tools)	TX-CHRK-13	I-R THROTTLE VALVE PUSH PIN	HH-604*
THRUST BEARING	TX-CHRK-14	I-R PUSH PIN BUSHING	HH-605*
THRUST BEARING RACE	TX-CHRK-15		

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CHIPPING HAMMER THROTTLE REPAIR KIT INSTRUCTIONS

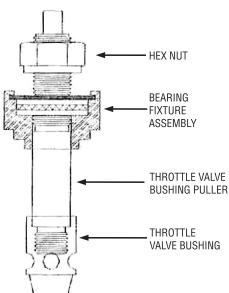
THROTTLE VALVE BUSHING REMOVAL

- 1. Remove the Throttle Valve Plug (TX-01001), Throttle Valve Spring (TX-01002), Throttle Valve w/ "O" Ring (TX-01003) and Throttle Valve Push Pin (TX-01006).
- 2. Place the Throttle Valve Bushing Tap (TX-CHRK-08) in the throttle port of the chipping hammer handle. Due to the length of the throttle on the Trottle Valve Bushing Tap, the Tap Guide Bushing cannot be used for this step.

3. Use a tap handle (Not Included) and the Throttle Valve Bushing Tap (larger tap) (TX-CHRK-08) to cut threads into the seat of the Throttle Valve Bushing (TX-01004).

There will only be 2.5 to 3 threads when finished.

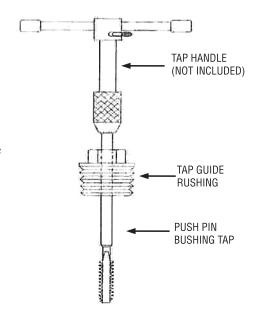
- 4. Screw the Throttle Valve Bushing Puller (TX-CHRK-01) into the newly tapped threads until tight against the bottom.
- 5. Slide the Bearing Fixture Assembly (TX-CHRK-04) over the Throttle Valve Bushing Puller (TX-CHRK-01) until it rests against the throttle port of the chipping hammer handle.
- 6. Screw the Hex Nut (TX-CHRK-07) on the Throttle Valve Bushing Puller (TX-CHRK-01) until it tightens against the Bearing Fixture Assembly (TX-CHRK-04).
- 7. Use a wrench (3/4") to tighten the Hex Nut (TX-CHRK-07) until the Throttle Valve Bushing (TX-01004) is pulled from the handle. A small wrench may be necessary to hold the top end of the Throttle Valve Bushing Puller (TX-CHRK-01) while tightening the Hex Nut (TX-CHRK-07).



PUSH PIN BUSHING REMOVAL

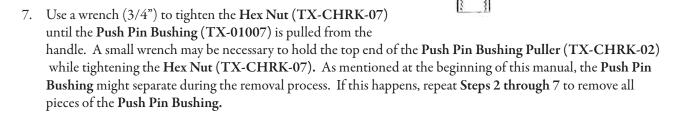
NOTE: It is not necessary to remove the Throttle Valve Bushing (TX-01004) in order to remove and reinstall the Push Pin Bushing (TX-01007).

- 1. Remove the Throttle Valve Plug (TX-01001), Throttle Valve Spring (TX-01002), Throttle Valve w/ "O" Ring (TX-01003) and Throttle Valve Push Pin (TX-01006).
- Place the Tap Guide Bushing (TX-CHRK-11) over the shank of the Push Pin Bushing Tap (Smaller Tap) (TX-CHRK-09) and screw the Tap Guide Bushing into the throttle port of the chipping hammer handle. The Tap Guide Bushing only needs to be finger tight. See Adjacent Illustration



CHIPPING HAMMER THROTTLE REPAIR KIT INSTRUCTIONS

- Use a tap handle (Not Included) and the Push Pin Bushing Tap (TX-CHRK-09) to cut threads into the Push Pin Bushing (TX-01007). The threads must be cut the full length of the bushing. Remove the Tap Guide Bushing and Push Pin Bushing Tap when complete.
- 4. Screw the Push Pin Bushing Puller (TX-CHRK-02) into the newly tapped threads until it tightens against the Push Pin Bushing (TX-01007)
- Slide the Bearing Fixture Assembly (TX-CHRK-04) over the Push Pin Bushing Puller (TX-CHRK-02) until it rests against the throttle port of the chipping hammer handle
- 6. Screw the Hex Nut (TX-CHRK-07) on the Push Pin Bushing Puller (TX-CHRK-02) until it tightens against the Bearing Fixture Assembly (TX-CHRK-04).



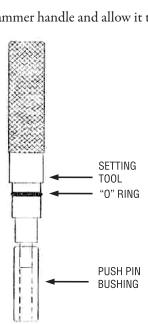
PUSH PIN BUSHING INSTALLATION

- 1. Set the new **Push Pin Bushing** (TX-01007) into the throttle port of the chipping hammer handle and allow it to rest at the starting point of its press fit location.
- 2. Place the Setting Tool (TX-CHRK-03) in the throttle port and allow the end to be inserted into the new Push Pin Bushing (TX-01007).

NOTE: If you have not removed or have already installed the Throttle Valve Bushing (TX-01004), proceed as instructed. The Setting Tool (TX-CHRK-03) is designed to seat the Push Pin Bushing even if the Throttle Valve Bushing is in place.

3. Center the **Setting Tool** (**TX-CHRK-03**) in the throttle port and begin tapping the new **Push Pin Bushing** (**TX-01007**) into its press fit position. It is recommended to use a smooth face, 24 oz. hammer for best results.

NOTE: Heating the chipping hammer handle and freezing the **Push Pin Bushing** will make this step easier. The heat will slightly expand the handle and freezing will contract the bushing.



HEX NUT

BEARING FIXTURE

ASSEMBLY

BUSHING PULLER

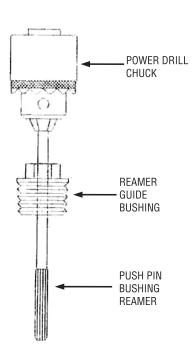
PUSH PIN BUSHING

PUSH PIN

CHIPPING HAMMER THROTTLE REPAIR KIT INSTRUCTIONS

REAMING THE PUSH PIN BUSHING

- Place the Reamer Guide Bushing (TX-CHRK-12) over the shank of the Push Pin Bushing Reamer (TX-CHRK-10) and screw the Reamer Guide Bushing into the throttle port of the chipping hammer handle. The Reamer Guide Bushing only needs to be finger tight.
- 2 Tighten the chuck of a power drill onto the Push Pin Bushing Reamer shank. Ream the Push Pin Bushing with one full, easy stroke. Remove the Reamer Guide Bushing and Push Pin Bushing Reamer from the throttle port of the chipping hammer.
- 3 Check the bore of the Push Pin Bushing (TX-01007) with a new Push Pin (TX-01006).
- 4 If necessary, repeat **Steps 1 through 3** until a satisfactory fit is achieved.



THROTTLE VALVE BUSHING INSTALLATION

- Place a new Throttle Valve Bushing (TX-01004) over the end of the Setting Tool (TX-CHRK-03). The "O" ring on the SETTING TOOL is used to help keep the Throttle Valve Bushing in place when placing it into the throttle port of the chipping hammer handle.
- 2. Center the **Setting Tool** (**TX-CHRK-03**) in the throttle port and begin tapping the new **Throttle Valve Bushing** (**TX-01004**) into its press fit position. It is recommended to use a smooth face, 24 oz. hammer for best results.

NOTE: Heating the chipping hammer handle and freezing the **Throttle Valve Bushing** will make this step easier. The heat will slightly expand the handle and freezing will contract the bushing.

* ADDITIONAL NOTE: When removing and installing Push Pin
Bushings and Throttle Valve Bushings on Ingersoll Rand (IR) Chipping
Hammer Handles, substitute the IR part number for the Texas Pneumatic
part number with a corresponding description. It will also be necessary to use the Push Pin Bushing Reamer
(TX-CHRK-13) for the Ingersoll Rand Push Pin Bushing (HH605).

