

### KIT CONTENTS:

- 4 ea. 1/4-20 Self Locking Nuts
- 1 ea. Offset Wrench
- 1 ea. Scrapper Rod
- 2" Silver Tape

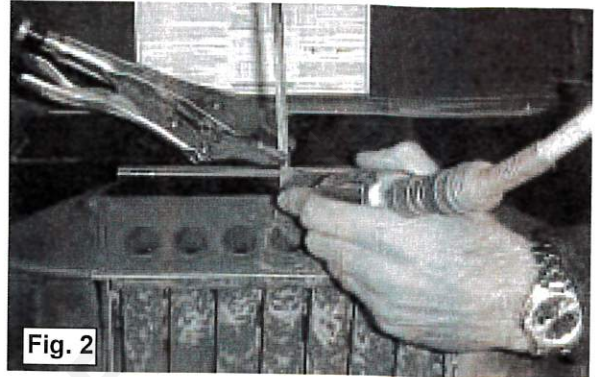
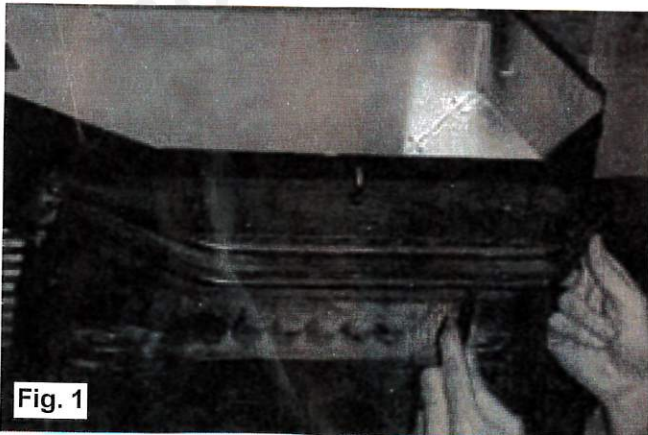
### TOOLS REQUIRED:

- Cutting Wheel Or Hacksaw (cutting device for old scrapper rod)
- Locking Pliers
- Vice Grip Clamps (can be installed without these)
- 3/8" Wrench

### INSTALLATION INSTRUCTIONS:

1. Using a 3/8" wrench, remove the top and bottom heat shields, including trim bars and set aside (the bolts are on the under side of the heat shield as shown in figure 1).
2. If old scrapper rod is still engaged in the scraper plate, go to step three, if the rod is off of the stove, skip to step 4.
3. If the scrapper rod is still attached (RIV nut and rod are loose but are still inserted through the scraper), continue with step 3 and refer to figure 2 and 3. If the scrapper rod has pulled out of the scraper and has been removed from the stove, skip to step 4.
  - a. Pull the scraper plate and rod up to the top of the heat exchange tubes.
  - b. With the locking pliers, clamp the old scrapper rod as shown in fig 2.
  - c. Cut off as much of the old scrapper rod as possible with the hacksaw (or any other cutting device).
  - d. Undo the locking pliers and remove the old scrapper rod.

**Note: The old piece of the scrapper rod left in the stove will not harm the stove or its performance.**



4. Place the 1/4-20 nut onto a square piece of tape (enough to wrap around the offset wrench. See figure 3). Take the offset wrench and place it on the nut and tape. It is very important to have the triangle indentation on the nut facing the tape as shown in figure 3. Wrap the rest of the tape around the offset wrench securing it into place (see figure 4).

**Note:** If the triangle indentation on the nut is facing up, towards the new scrapper rod, threading the two together will be much more difficult.

5. With the scraper plate back at the bottom, maneuver the offset wrench sideways and in-between the 3<sup>rd</sup> and 4<sup>th</sup> tubes from the left of the stove as shown in fig 5. Slide the offset wrench up towards the front of the heat exchange tubes and thread the new scrapper rod into place.

**Note:** If the backside of the RIV nut on the scraper plate has broken off, thread the nut about a half an inch up the new scrapper rod. If the RIV nut is still intact, thread the nut 3/4" up the rod.

6. Remove the offset wrench and prepare another 1/4"-20 nut by repeating step 4.



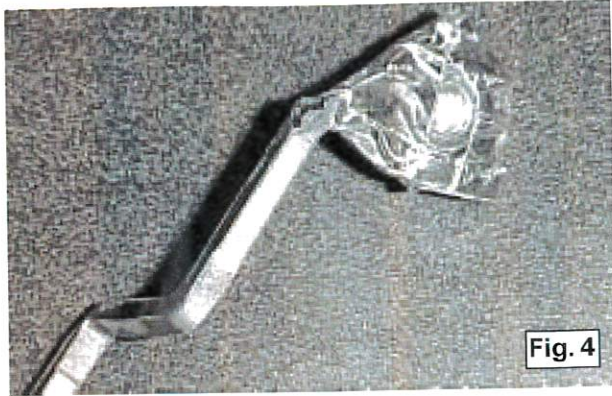


Fig. 4

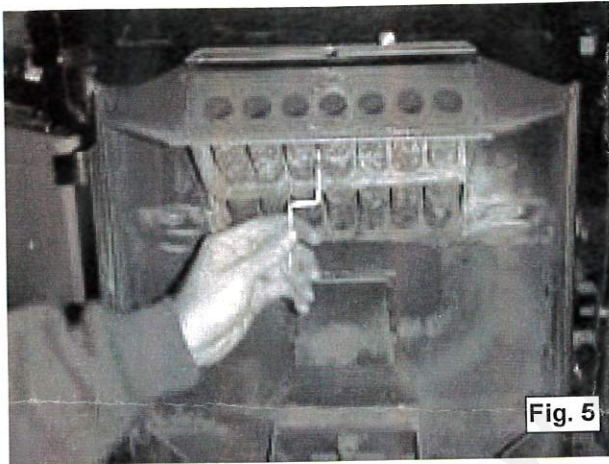


Fig. 5

7. Pull the scraper plate up towards the top of the heat exchanger and insert the scraper rod into the existing hole. If the scraper plate doesn't stay put when you let go, use the vice grips to clamp it in place.

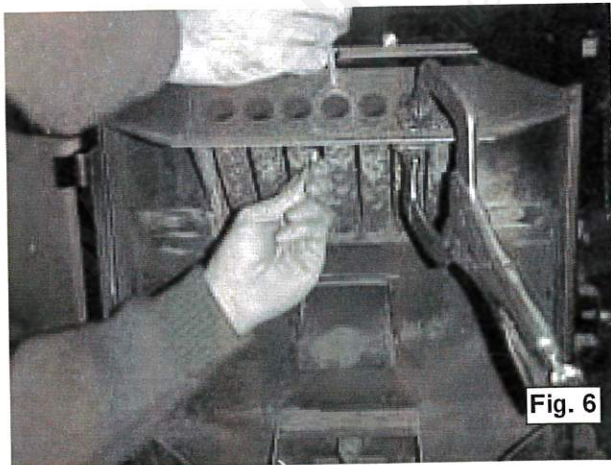


Fig. 6

8. Insert the socket wrench and thread the 2<sup>nd</sup> nut onto the scraper rod sandwiching the plate between the two nuts.
9. Remove the socket wrench and vice grips. Reinstall the heat shield and trim rods. You're done.

### SUGGESTIONS

Note: There are many reasons why your scraper rod may have broken. With this fix, it should not happen again. To prevent the scraper plate and rod from sticking in the future, please follow these tips.

- Pull the scraper rod frequently. The plate's likelihood of sticking increases if there is an excessive amount of buildup over time on the tubes.
- Pull the scraper rod while the stove is cold. The tubes expand under high heat and could cause the plate to stick when burning.
- If you start to feel a buildup of ash at the bottom of the far left and right tubes (behind the baffle), use the bottlebrush provided with the stove to reach back into the corners and clean out the ash.
- At least once a year, thoroughly clean out the fly ash buildup from the exchange tubes, exhaust passages and venting system (see Maintenance Requirements in the Installation and Operation Manual). Failure to remove an excessive buildup of ash can affect the proper operation of the scraper rod as well as result in other performance problems.

#### ○ PriKIT CONTENTS:

- 2 ea. 1/4-20 Self Locking Nuts
- 1 ea. Straight Wrench
- 1 ea. Scraper Rod
- 2" Silver Tape

#### TOOLS REQUIRED:

- Cutting Wheel Or Hacksaw (or other cutting device for removing old scraper rod)
- Locking Pliers
- Vice Grip Clamps (can be installed without these)
- 1/4" Nut Driver

#### INSTALLATION INSTRUCTIONS:

- 1) Remove the heat shield using a 1/4" nut driver and set aside (see figure 1).

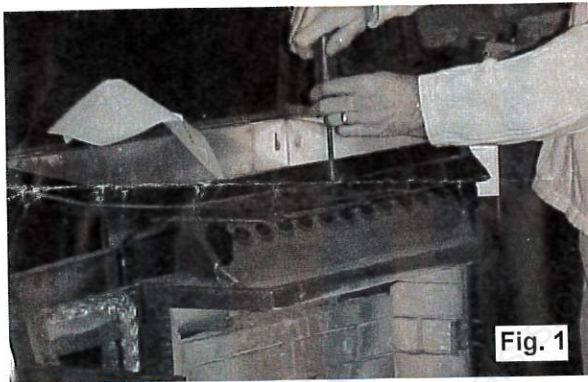


Fig. 1



Fig. 2

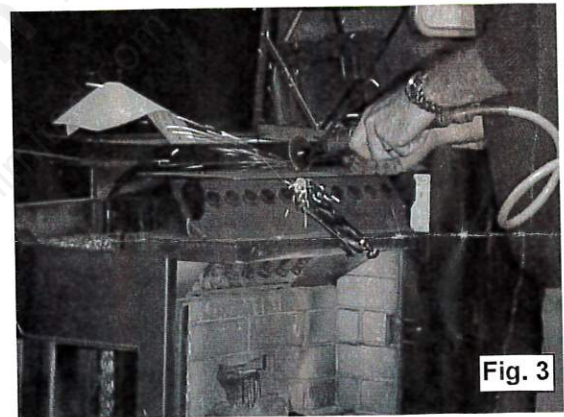


Fig. 3

- 2) If the old scraper rod is still engaged in the scraper plate, go to step three, if the rod is off of the stove, skip to step 4. Otherwise, see following and refer to figure 2 & 3.
- 3) Scraper rod still attached:
  - a. Pull the scraper plate and rod up to the top of the heat exchange tubes.
  - b. With the locking pliers, clamp the old scraper rod at the top of the heat exchange tubes (see figure 2).
  - c. Cut off as much of the old scraper rod as possible with a hacksaw or any other cutting device (see figure 3).
  - d. Open the locking pliers and remove the old scraper rod.

**Note:** The old piece of the scraper rod left in the stove will not harm the stove or its performance. Although it can be removed by maneuvering it to either side until it falls into the ash clean-out ports where it can be removed.

- 4) Place a square piece of tape (enough to wrap around the straight wrench) onto the straight wrench. Take a 1/4-20 nut and place it in the straight wrench. It is very important to have the triangle indentation on the nut facing the tape. Wrap the rest of the tape around the nut securing it into place (see figure 4, 5 & 6).

**Note:** if the triangle indentation on the nut is facing up, towards the new scraper rod, threading the two together will be much more difficult.

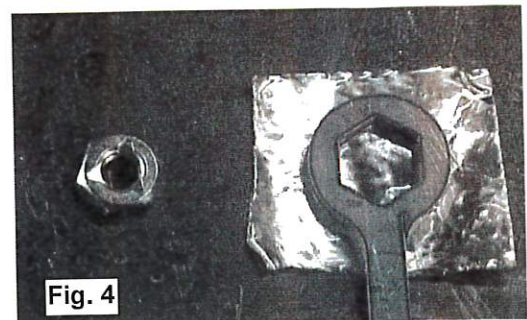


Fig. 4

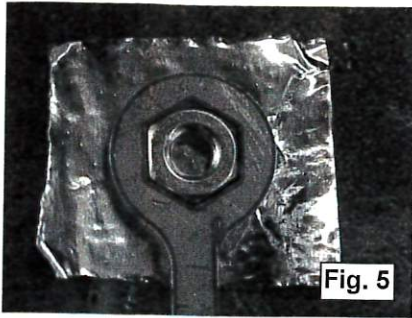


Fig. 5

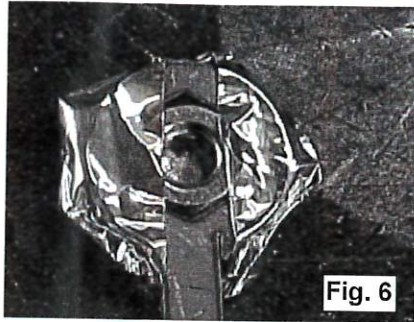


Fig. 6

- 5) With the scraper plate back to the bottom of scraper tubes, maneuver the straight wrench sideways and in-between the center tubes. Slide the straight wrench up towards the front of the heat exchange tubes and thread the new scraper rod into place (see figure 7).

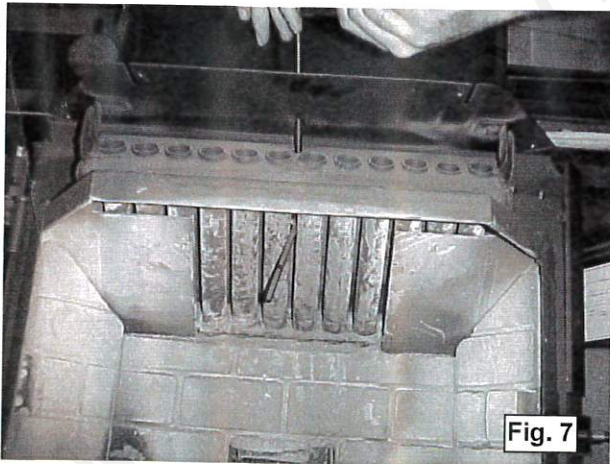


Fig. 7

Note: If the backside of the RIV nut on the scraper plate has broken off, thread the nut about a half an inch up the new scraper rod. If the RIV nut is still intact, thread the nut 3/4" up the rod.

- 6) Remove the straight wrench and prepare another 1/4-20 nut by repeating step 4.
- 7) Pull the scraper plate up towards the top of the heat exchanger and insert the scraper rod into the existing hole. If the scraper plate doesn't stay put when you let go, use vice grips to clamp it in place (see Fig 8).

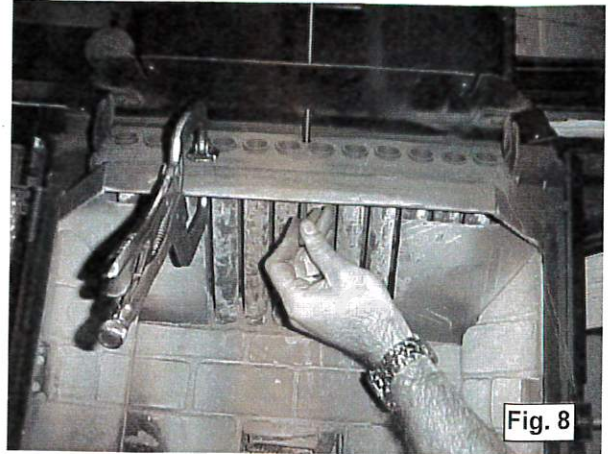


Fig. 8

- 8) Insert the straight wrench and thread the 2<sup>nd</sup> nut onto the scraper rod sandwiching the plate between the two nuts.
- 9) Remove the straight wrench and vice grips. Reinstall the heat shield. You're done.

### SUGGESTIONS

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