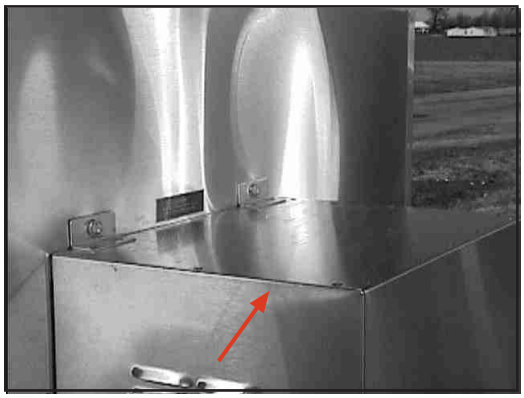
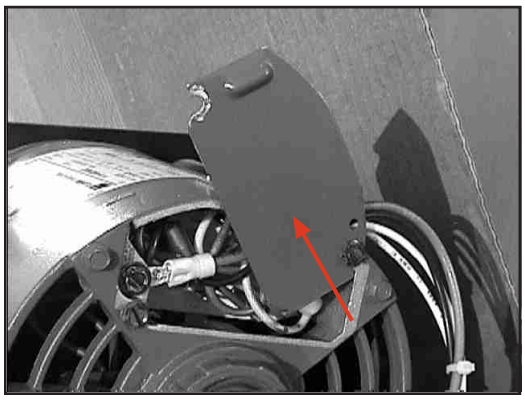
Gearbox Replacement

(page 1)

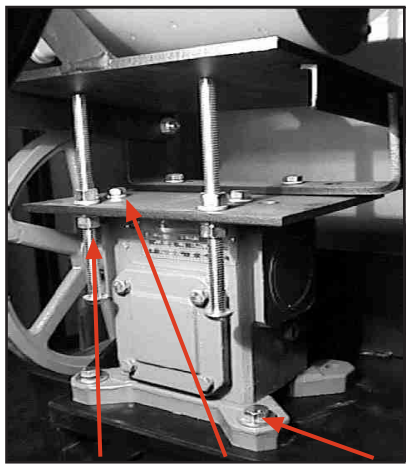
1. Disconnect power and remove the hanger racks.
2. Remove the gearbox cover located on the side of the oven by removing the four retaining bolts & lifting the cover off. (fig.1)
3. Remove the wiring access cover on the back of the motor, take note of the wire location and then unplug the black and white wires; also loosen the screw and remove the green ground wire. (fig.2)
4. Remove the wire-ties that hold the wires to the mounting bracket.
5. Loosen the two 3/8-16 x 6" long belt tension screws and remove the v-belt (fig.3)
6. Remove the four 5/16-18 x 1" bolts that fasten the drive motor mounting plate and the tension plate to the gearbox top. (fig.3)
7. Remove this assembly.
8. Remove the four 3/18 x 1 1/4" bolts and nuts that hold the gearbox to the mounting plate. (fig.3)
9. Remove the gearbox.
10. On a work surface remove the retaining bolt from the end of the output shaft that holds the small gear on. (fig.4) loosen the set screw and remove the small gear and keyway. These will be used on the new gearbox. (fig.4) on the spk-700; bbr-700; xlr1400; and xlr1600-4 it may be necessary to replace the retaining bolt part way and use a puller to remove the gear. (fig.5)



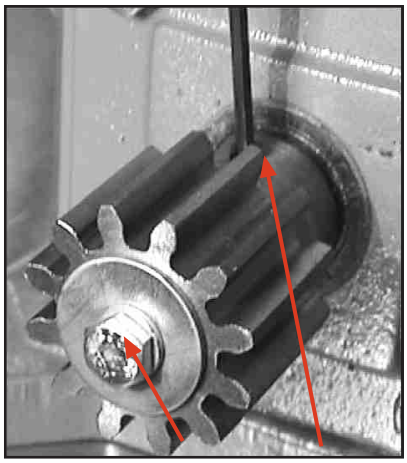
(fig.1) gearbox cover



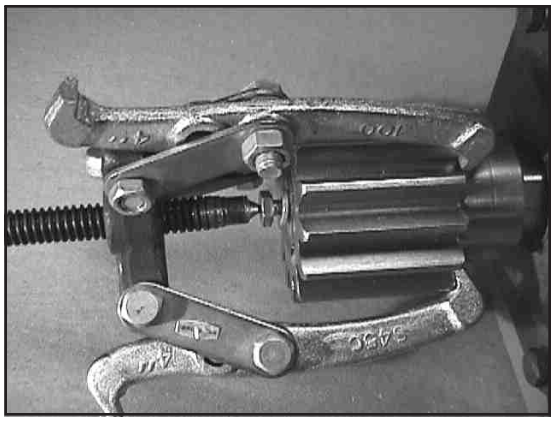
(fig.2) wire access cover on motor



(fig.3) tension bolts, motor bolts, gearbox bolts



(fig.4) small gear bolt and set screw



(fig.5) gear puller if necessary

Southern PRIDE
WOOD BURNING BBQ PITS & SMOKERS

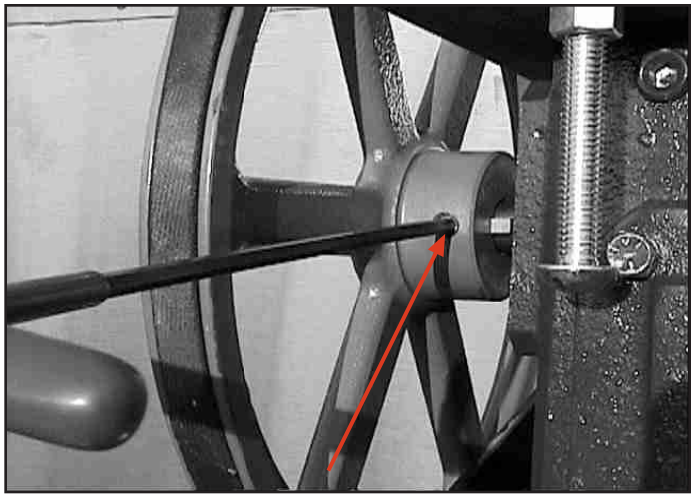
www.southernpride.com
service/parts: 800-437-2679 - fax:618-993-0378
service@sopride.com - parts@sopride.com

Gearbox Replacement

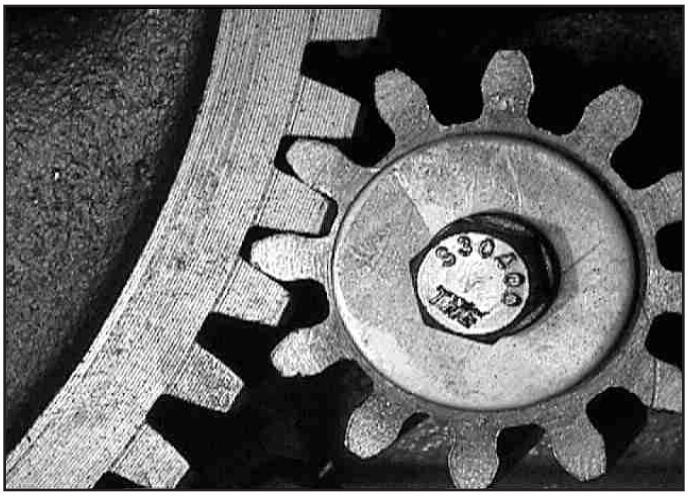
11. Loosen the set screws on the large pulley hub and remove it. (fig. F)

12. Install the new gearbox and reassemble.

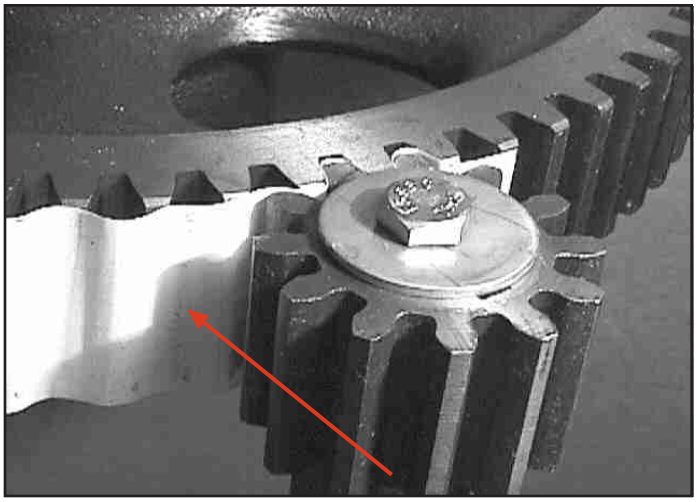
Note: be sure both gears are in line and the gear box assembly is pushed over enough to cause the gears to mesh snug. Play in the gears will result in rotisserie wheel play. (fig. G) to check for proper alignment, carefully feed a 1 1/2" wide strip of paper between the gears. (fig. H) note the marks on the paper made by the gear teeth. The marks should be even across the paper. (fig.I) if they are uneven and cut the paper, re-align. (fig. I)



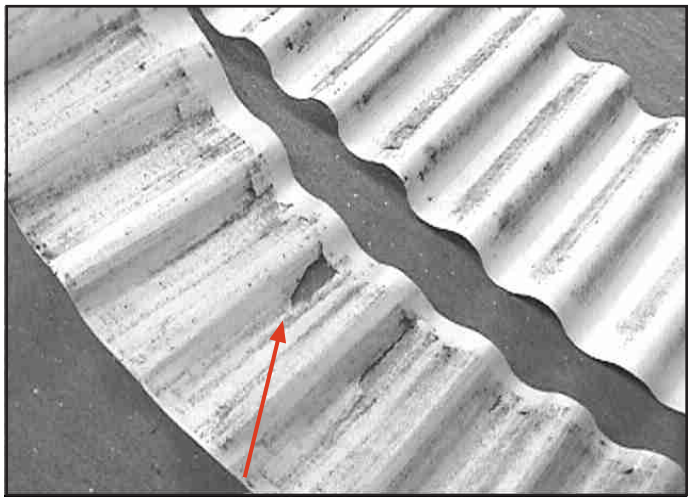
(fig.6) set screw on large pulley



(fig.7) large and small gear union



(fig.8) 1.5" wide piece of paper between the gears



(fig.9) rips or uneven marks in paper mean it needs realigned