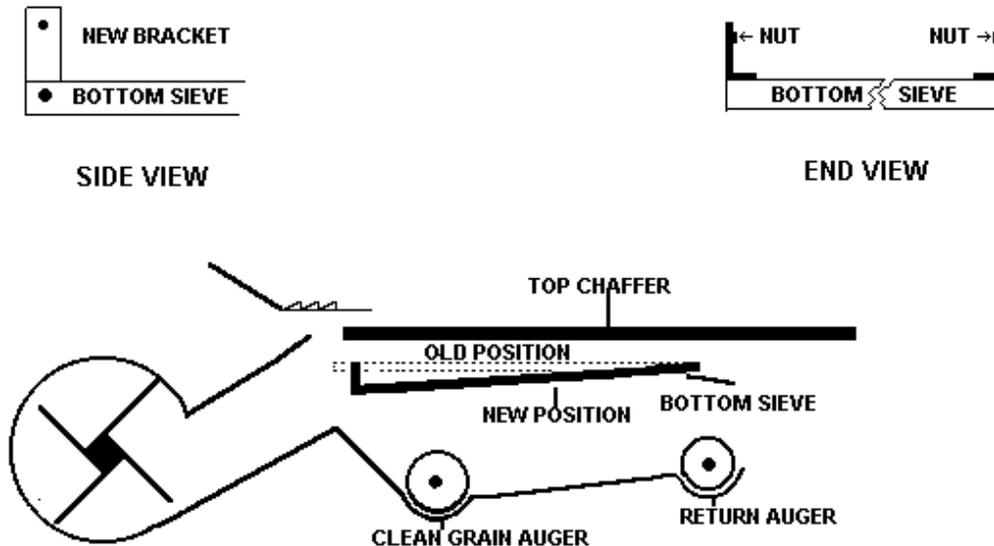


# JOHN DEERE COMBINE

## SERIES 6600/6620, 7700/20, 8820 [NOT TITAN II SERIES]

**PROBLEM:** Poor chaffer performance can result because the bottom cleaning sieve is robbing air from the chaffer. Grain sluffs off the back of the shoe. There is a dirty sample in the tank and a heavy amount of clean grain in the return.



### REASON:

The bottom sieve is too flat, allowing the clean grain to run into the return. The front of the sieve catches too much air, blowing the lighter crop into the return. At the same time the top chaffer doesn't get enough air to effectively separate the seeds from the chaff.

### SOLUTION:

Lower the front of the bottom sieve 2".

1. Take out the top chaffer so that you can also remove the bottom sieve.
2. Remove the old angle iron ledges that supported the bottom sieve either by drilling out the spot welds or cutting off the angle iron ledge using an angle grinder or air chisel.
3. The angle iron ledge will have to be shorter because the front of it runs below the smooth wall of the shoe. You can reinstall a new angle iron ledge 2" lower at the front and the same height at the back. (Due to variations in different models determine if this alteration can be achieved without hitting the bottom of the clean grain housing.) Make the new angle iron ledge with 14 gauge metal. Use pop rivets to install it. The angle iron is not required for strength but it will make it easier to remove or install the bottom sieve.
4. Weld a piece of 2.5" x 1" angle iron to the front corners of the bottom sieve. Be sure to maintain back to front hole centre distance before welding on bracket.
5. Drill a new 1/2" diameter hole into the face of the new angle iron pieces 2" directly above the old hole in the front of the bottom sieve frame.
6. Weld a 1/2" nut behind the new 1/2" hole.
7. Reinstall the bottom sieve using the same holes at the back and the new holes at the front.