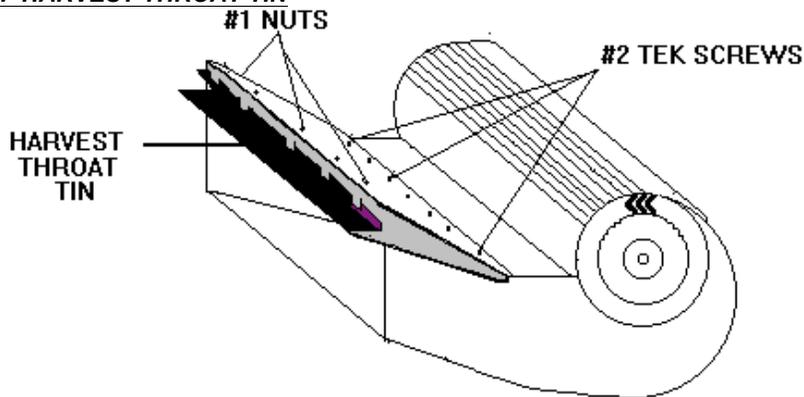


## HARVEST FAN THROAT for CASE IH ROTARY COMBINES with CROSS FLOW FANS

The **Harvest Throat Tin** is needed to redirect the air under the chaffer. 20% to 30% of the fan's output is presently blowing over the front of the chaffer. This results in a horizontal blast of air which reduces the effective lift. The **bottom cleaning sieve** should be shortened because it is far too long. On every forward stroke it cuts off the air to the top chaffer. Also, too much air under the bottom cleaning sieve blows clean grain into the return overloading the system.

### INSTALLATION OF HARVEST THROAT TIN



1. Remove the top chaffer and the bottom sieve.
2. Loosen all the nuts at the top the existing throat tin. [#1]
3. Slide the **HARVEST THROAT TIN** under the loosened nuts and washers. [#1]
4. Install Tek screws at fan edge in the predrilled holes. [#2]
5. Tighten all screws and nuts.

### SHORTENING OF THE BOTTOM CLEANING SIEVE

You have two choices when shortening the bottom sieve -

1. Leave the frame and dividers intact and just remove the first 5 rows of louvers. The air flow will be slightly reduced and somewhat disturbed. It will still provide a significant improvement.
2. The **preferred** method is to remove the front cross bar of the sieve. If you choose to do this please follow the instructions below. Notice that the new cross bar has two 6" stubs welded to it. These stubs will reinforce the side frames of the sieve. **Exercise extreme caution when cutting and welding the new cross bar in place. We can not warranty any work not done in our own shop.**



- [1] Close the louvers on the bottom cleaning sieve.
- [2] Remove the first five\* rows of louvers and dividers from the bottom cleaning sieve. *On all 1400 and early 1600 series cover the extension fingers at the rear of the grain pan with a 4 1/4" wide plate. (available from your Case IH dealer) This plate is factory installed on all 1600 series machines after 1989. Failure to do this may cause a dirty sample when using an adjustable top chaffer. If you are using an adjustable chaffer without installing the 4 1/4" plate, then remove only the first three\* rows of louvers. If you are using a Harvest Air Foil Chaffer you can install a Harvest Ripple Tin on the front of the chaffer. This will cover the front 10" of the chaffer.*
- [3] Weld the new **Cross Bar** at the front of the newly shortened dividers. Ensure that you do not cut the dividers too short. If you do you will not be able to close the bottom sieve, as the new front cross bar will restrict the movement of the louvers in the 6th row.
- [4] On the original front cross bar cut all but 4" on each end. The 4" section is necessary to reinstall the bottom sieve into the shoe the same way as before.
- [5] Replace top chaffer and bottom sieve.
- [6] Check clearances from the sieves to the Fan Throat Tin.