

## INSTALLATION INSTRUCTIONS FOR THE HILLCO E-Z FLOW FAN KIT

- STEP #1:** Park combine on level ground, secure parking brake, and remove ignition key to prevent accidental start up.
- STEP #2:** Remove both the top chaffer sieve and lower cleaning sieve.
- STEP #3:** Place a board or pad over the clean grain auger so that the installer can sit or lie comfortably in a position in which he can reach the cleaning fan.
- STEP #4:** Loosen but don't remove the divider bolts that hold the dividers in place on the left end of the fan.
- STEP #5:** Loosen and remove bolts on the right end of the fan and remove these dividers. Note the direction that the dividers are pointed to ensure proper installation of new dividers. On Style 'A' Fan Kits, the divider legs from both sides will point in the same direction when properly installed.
- STEP #6:** Replace dividers on the right end of the fan with 6 of the 12 dividers in the E-Z FLOW Fan Kit. Do not tighten bolts.  
*NOTE: The easiest method of installing the new dividers is to put all six dividers in using only one bolt on each flange and spider support. The remainder of the bolts can be installed after all six dividers are held in place. Two small lining punches make hole alignment easy.*
- STEP #7:** Move back to the left end of fan and remove original dividers and replace with remaining six E-Z FLOW Fan Kit dividers, but do not tighten the bolts.  
*NOTE: Model 1680 combines have a center set of dividers. Loosen these bolts before the tightening procedure is started.*
- STEP #8:** Once all dividers are in place, move to the right end of the fan and begin tightening the bolts that are farthest from the main fan shaft. Then move to the left end of the fan and repeat the tightening.
- STEP #9:** Proceed with the tightening of the remainder of the bolts on both ends starting with those farthest from the hub and proceeding inward until all bolts are tight.  
*NOTE: Retighten divider bolts on the center dividers of the 1680 after the tightening sequence has been completed on the end dividers.*

**CAUTION: IT IS EXTREMELY IMPORTANT TO RECHECK BOLT TIGHTNESS AFTER THE BOLT TIGHTENING SEQUENCE HAS BEEN COMPLETED. SERIOUS DAMAGE CAN OCCUR TO THE FAN AND FAN HOUSING IF BOLTS ARE IMPROPERLY TIGHTENED.**

- STEP #10:** Rotate fan, by hand, one complete revolution to ensure fan clearance.
- STEP #11:** After adequate fan clearance has been established, sieves may be reinstalled.
- STEP #12:** When starting the separator for the first time after installation of the E-Z FLOW Fan Kit, have the engine running at a low idle. Increase engine RPM's to high idle and inspect fan and fan shaft for signs of imbalance.

**CAUTION: IF PROPER TIGHTENING SEQUENCE IS FOLLOWED, THE CLEANING FAN SHOULD AGAIN BE WELL BALANCED. IF IMBALANCE OCCURS, LOOSEN ALL DIVIDER BOLTS AND RETIGHTEN BOLTS AGAIN ACCORDING TO THE TIGHTENING SEQUENCE.**

### ***THE E-Z FLOW FAN KIT IS NOW INSTALLED AND READY FOR USE.***

#### **TIPS FOR SETTING YOUR COMBINE**

Most advantages of the E-Z FLOW Fan Kit will be evident using the same combine settings as were used prior to the kit's installation. To get the most from your E-Z FLOW Fan Kit, however, various changes in fan speed and sieve settings should be experimented with to optimize your combine's performance.

**FAN SPEED:** The E-Z FLOW Fan Kit does increase the volume of air delivered to the sieves; however, this doesn't necessarily mean you should decrease fan speeds. The biggest advantage of the E-Z FLOW Fan Kit is actually improved uniformity of air distribution. The elimination of "hot" and "cold" spots on the shoe reduces the "sluffing" and "blowing" of grain off the sieves. Fan speeds can often be increased to further improve shoe capacity and tank quality without increasing grain loss. Try adjusting the fan in both directions to optimize your combine's performance.

**SIEVE SETTINGS:** A key to optimizing the capacity of the axial flow combine is to maximize the lower sieve setting. The lower sieve is positioned in the fan's main air stream, and the further closed it is the more it disrupts the air that is needed on the chaffer sieve. Closing down the lower sieve robs capacity of the axial flow combine. The E-Z FLOW Fan Kit reduces "sluffing" of unwanted material onto the lower sieve, allowing the sieve to be opened further without sacrificing tank quality. After installation of the E-Z FLOW Fan Kit, experiment with opening the lower cleaning sieve to maximize your combine's performance.