

PRECISION RESIDUE MANAGEMENT

INSTALLATION TIPS

600 SERIES

Remove front flange nut and spray down inside the rolls towards the taper/spline interface (between roll and shaft) with penetrating oil. Use an applicator straw attached to the spray nozzle to reach down into the roll. This step may be useful for removing the nut as well depending on head condition.

40/90 SERIES

Spray penetrating oil inside roll at front and inside roll all around the clamp slot near the middle of the roll.

ALL MODELS

Re-install residue knives 3/8" - 1/4" away from stalk rolls (some instances may require new knives).

KEYS TO OPTIMIZING PERFORMANCE

IF STALKS ARE FLARED BUT NOT CONSISTENTLY CUTTING...

Ground speed is too fast to allow stalk roll to process the stalk. Increase the head speed.

Changing the pitch of the corn head can help in changing conditions such as wet mornings or a hybrid change. Even a slight change of a 2- to 4-degree pitch can help improve performance under these conditions.

IF RESIDUE IS WET...

Increase stalk roll speed and/or reduce ground speed.

See Manufacturer's Operation Manual for suggested head and machine settings for running in wet conditions.

Make sure residue knives are at least 1/4" from the stalk roll. May open up further if rolls aren't ejecting residue quickly enough - resulting in occasional clutch slipping.

Consider raising head two to four inches above current settings.

Watch for "re-processing" residue. If head is too low, or header angle is too flat, it is possible to pick up stalks from the ground and send them back through the rolls. Raise head or adjust pitch to eliminate.

STALK ROLL SPEED VS. GROUND SPEED

| STALK ROLL SPEED VS. GROUND SPEED | | | | | |
|-----------------------------------|----------|----------------|-------------|--------------|-----------|
| Gathering Chain Speed | 470 RPM | 550 RPM | 620 RPM | 690 RPM | 750 RPM |
| Ground Speed | 2 -3 MPH | 2.75 - 3.5 MPH | 3 - 4.5 MPH | 4.25 - 6 MPH | 5 - 6 MPH |

CHECKING FOR WEAR

360 CHAINROLL teeth and knife edges are laser clad to harden against wear. Although they work in a harsh and abrasive environment, it is four or five seasons before we see noticeable wear.

The teeth actually get sharper as they are used. But once the laser cladding is worn through, the steel will wear, teeth will become rounded and the knife edges will become dull. You will notice fewer perforations in the stalk and partial cuts rather than clean cuts.

While the rolls will still aggressively pull stalks through the deck plates, they will no longer provide the residue management features that speed residue breakdown.

