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MODEL:

494AN & 694AN

Corn Planters

**OPERATOR'S
MANUAL**



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**494AN AND 694AN
CORN PLANTERS**

MANUAL PREVIEW

OPERATORS MANUAL

**494AN AND 694AN
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SPECIFICATIONS

TYPE—

Drill Corn Planter.

6-Row - 28- or 30-inch row spacing.

4-Row - 38- or 40-inch row spacing.

OPENERS—

Runner openers - optional.

Disk openers - optional.

14-inch double disk openers with anti-friction bearings - optional.

ROW SPACING—

28-, 30-, 38-, or 40-inch rows.

TYPE OF LIFT—

Remote hydraulic cylinder.

TYPE OF DRIVE—

Sprocket and chain from ground wheels.

SEED HOPPERS—

1-1/5 bushel capacity, with seed gauges.

PRESS WHEELS—

18-inch press wheels that can be equipped with scrapers and/or press wheel bands, semi-pneumatic press wheel tires, or tractor tread press wheel tires.

MARKERS—

Disk type—automatically raise and lower when the planter is raised or lowered.

OVER-ALL TRANSPORT WIDTH—

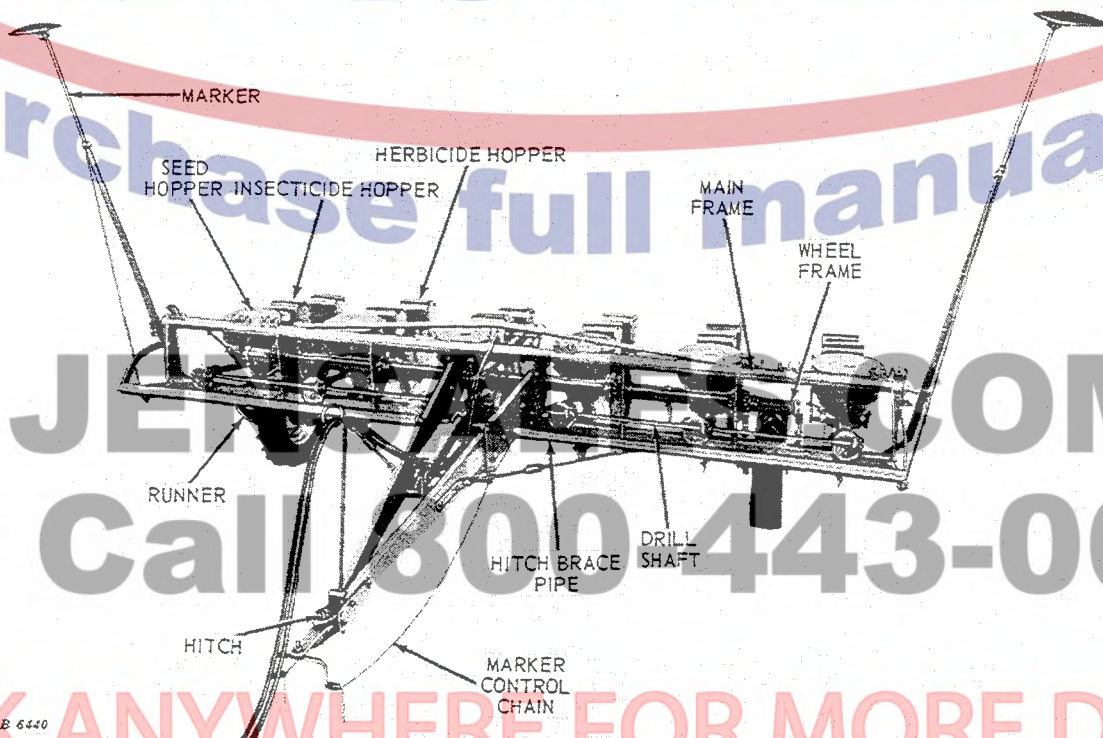
Approximately 15 feet 6 inches.

PLANTING UNITS—

Each unit individually mounted for maximum flexibility.

PLANTING DEPTH—

Controlled by press wheel on each planting unit.



B 6440

OPERATION

PREPARING THE TRACTOR

The tractor must be equipped with an 8-inch stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

On tractors with an adjustable drawbar, place the drawbar approximately 15 inches from the ground and bolt it in the center of the tractor.

If possible, set the tractor rear wheels 60 inches, center to center of tread and equal distance from center line of tractor. The planter ground wheels will then run in tracks left by the rear wheels of the tractor. If this cannot be done it is best to adjust the tractor rear wheels so the planter wheels run entirely out of the tractor wheel tracks.

PREPARING THE PLANTER

LUBRICATION

Consult the lubrication charts on pages 36-38 for guidance in lubricating your planter.

Regular and systematic lubrication is the best assurance against breakdowns and delays. It will help you get better service from your corn planter and save on your maintenance costs.

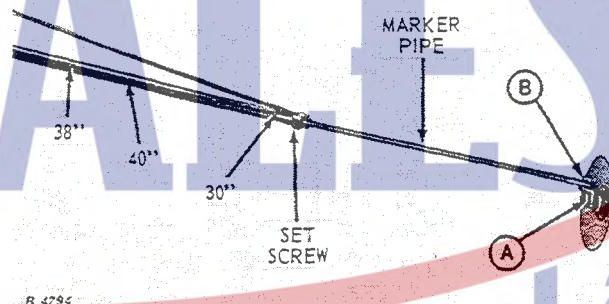
TIRE INFLATION

Inflate the planter 6.70 x 15 traction-type tires to 24 psi of air pressure.

ROW WIDTHS

The planter is a 30-inch row width drill type corn planter. It may also be used to plant six 28-inch rows or four 38- or 40-inch rows.

MARKER ADJUSTMENT

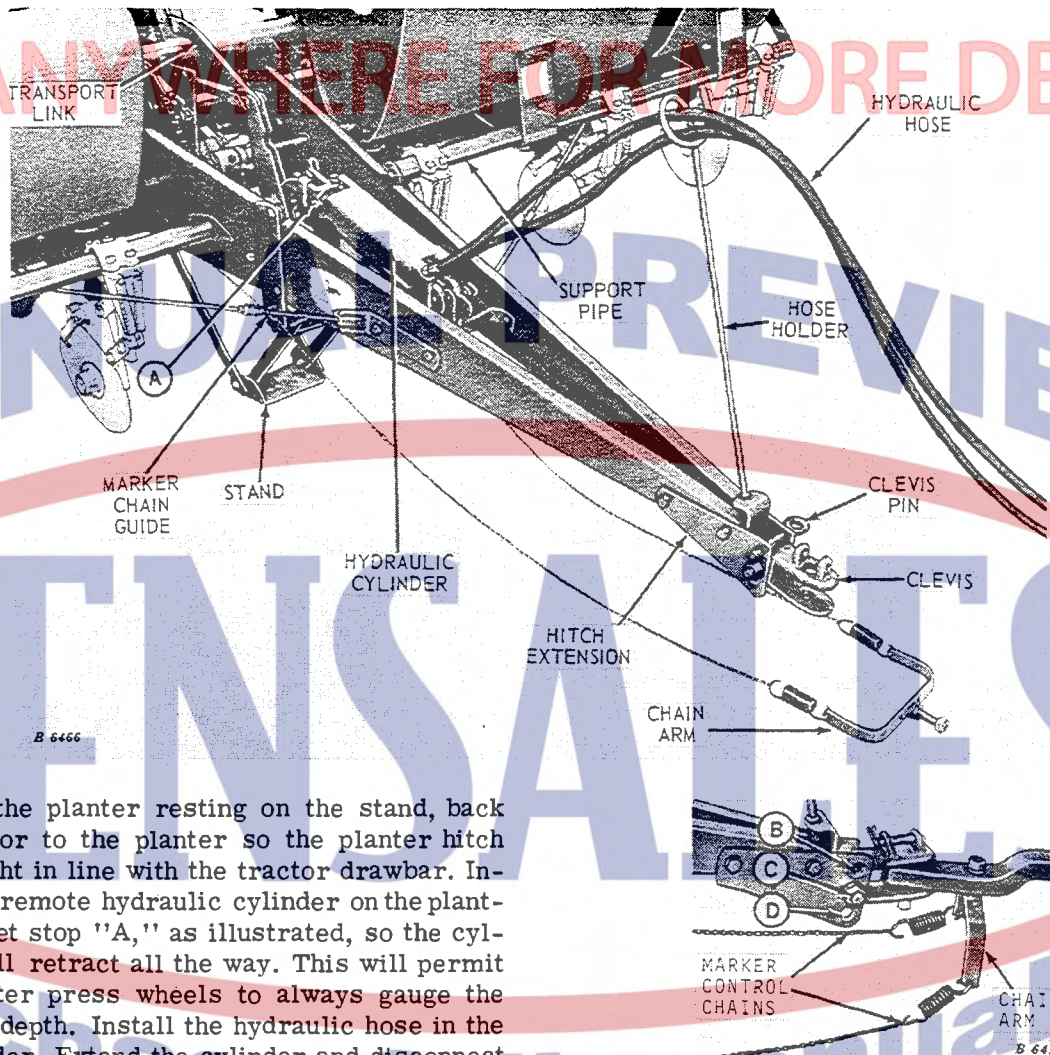


The markers are adjustable for 30-, 38-, or 40-inch row widths.

The marker illustrated is set for 30-inch row widths. To change the markers for other row widths loosen the set screws so marker pipes will slide. Set the inside end of each marker pipe to line up with the center of the hole in the marker arm, for desired row width. Turn each marker pipe so bracket "A" is in position illustrated. Tighten the set screws securely to hold markers in position. The angle of each marker disk may be adjusted for various soil conditions by loosening bolt "B" and turning the disk. After adjustment is made tighten bolt "B" securely.

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HITCHING



With the planter resting on the stand, back the tractor to the planter so the planter hitch is straight in line with the tractor drawbar. Install the remote hydraulic cylinder on the planter and set stop "A," as illustrated, so the cylinder will retract all the way. This will permit the planter press wheels to always gauge the planting depth. Install the hydraulic hose in the hose holder. Extend the cylinder and disconnect the transport links from the transport lug.

Remove the clevis pin from the clevis and place it in the hitch extension holes, as illustrated, to hold the clevis straight out. If the clevis is installed in the upper holes, place clevis pin in the lower hitch extension holes.

Place the marker control chains over the fertilizer drive, under the support pipes and through the chain guides. Attach the marker control chains to the springs and chain arm.

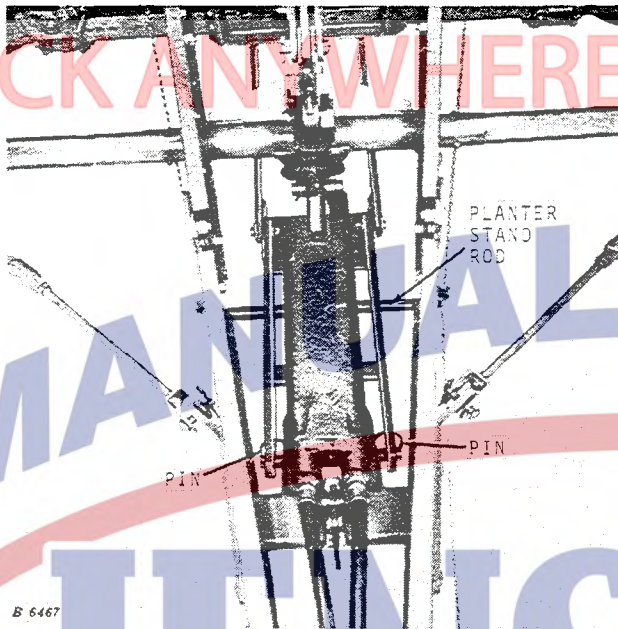
Retract the hydraulic cylinder until the planter hitch is the same height as the tractor drawbar. Attach the clevis to the tractor drawbar with the clevis pin and secure in place with the retaining pin as shown. Extend the hydraulic cylinder to raise the planter off of the stand.

Attach the chain arm at right angles to the tractor drawbar. Tighten the bolt securely as the marker chain arm must be held rigidly to the tractor drawbar.

Set the clevis in holes "B," "C," or "D," so the lower edge of the planter hitch is parallel to the ground when in planting position.

NOTE: Retighten all bolts in hitch panel after planting approximately five acres.

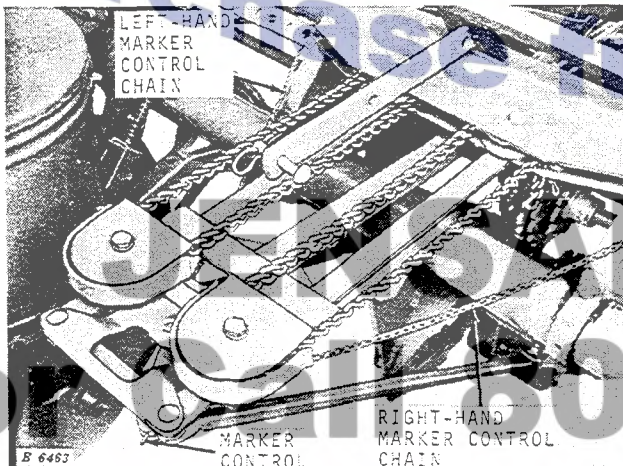
HITCHING—Continued



Pull the pins and push the planter stand up over the planter stand hitch rod and hook the front legs of the stand over the rod on the hydraulic cylinder bracket. Hold the planter stand in place with the pins.

To place the planter stand back into position for unhooking from planter, reverse the above procedure.

MARKER CONTROL CHAINS



Pull the right-hand marker control chain until marker control lever points to left-hand side of planter, as illustrated.

Attach the spring to chain arm, and hook the left-hand marker control chain to spring at the shortest link possible, without stretching the spring.

Now pull the left-hand marker control chain until the marker control lever points to right-hand side of planter.

Attach the spring to chain arm, and hook the right-hand marker control chain to spring at the shortest link possible, without stretching the spring.

NOTE: Be certain all parts of marker assembly move freely.

MARKER LIFT CHAINS

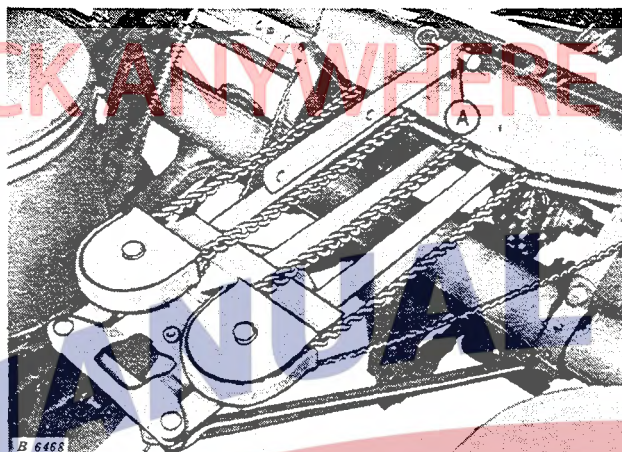


With the remote hydraulic cylinder extended to maximum length, pull marker lift chains tight at each end of planter and adjust each lift chain in the marker chain retainer so marker arm is snug against the marker stop.

Place the loose end of each marker chain in the marker stop.

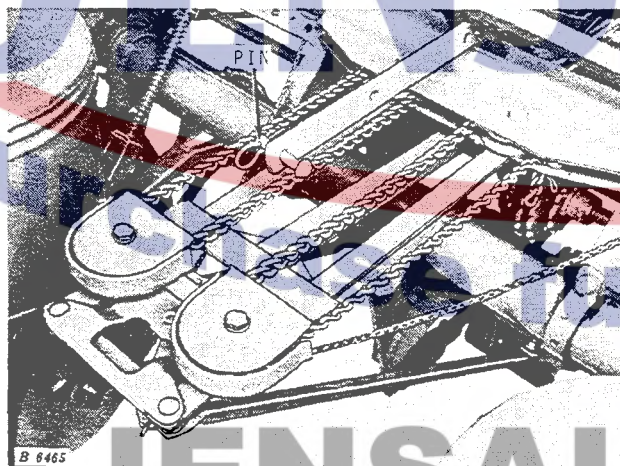
CAUTION: Keep the loose end of each marker chain in the marker stop at all times, except when planting.

TRANSPORTING



Extend the remote hydraulic cylinder and insert the pin in hole "A" as shown.

CAUTION: When transporting the planter on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



After reaching the field, extend the remote hydraulic cylinder and place the pin as illustrated.

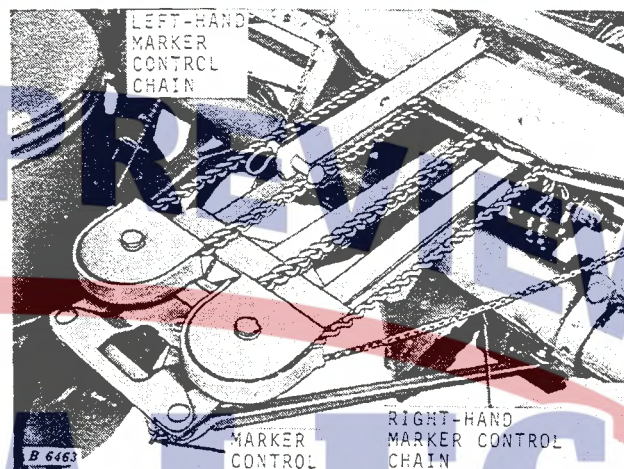
MARKERS

Remove the end of each marker chain from the marker stops before lowering the planter in the field.

NOTE: When planting the rows next to the fence, hold the markers up by inserting the marker chains in the marker stops. When markers

are latched up, chains will be slack. When raising planter, be very careful that slack chain does not catch and break.

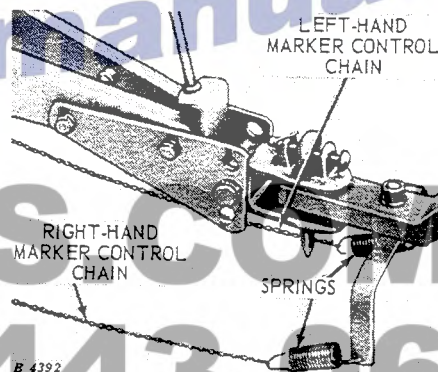
The position of the marker control lever will determine which marker will drop when the planter is lowered.



When the marker control arm points to the left-hand side of the planter, as illustrated, the right-hand marker will drop.

The marker control arm will stay in this position, and the right-hand marker will raise and drop when planter is raised and lowered until the tractor is turned sharply to the right. Then the left-hand marker control chain will tighten and point the marker control arm toward the right-hand side of the planter and the left-hand marker will drop when the planter is lowered.

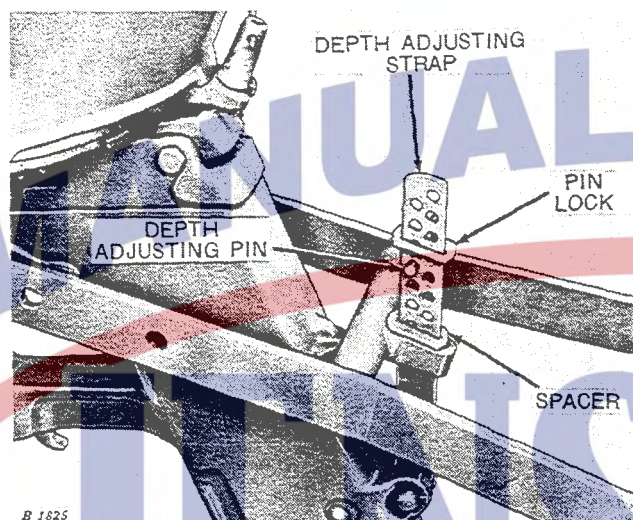
The marker that is down will automatically raise when the planter is raised.



If the right-hand marker will not drop after a sharp left turn, shorten the right-hand marker control chain at spring, one link at a time, until right-hand marker will drop after a sharp left turn. Shorten the left-hand marker control chain if left-hand marker fails to drop after a sharp right turn.

PLANTING DEPTH

The planting depth of the planter is gauged by the planter press wheels and not with the tractor remote hydraulic cylinder. The remote hydraulic cylinder must be fully retracted when planting.



The planting depth of each unit is determined by the setting of the depth adjusting pin in the depth adjusting strap. To change the planting depth move the pin up to increase the depth or down to decrease the depth. Hold pin in place with the pin lock.

Each hole in the depth adjusting strap represents a change of approximately 1/2-inch in the planting depth. To increase the planting depth by 1/4-inch remove the spacer from under the locking pin.

Always insert the depth adjusting pin and pin lock as illustrated.

Adjust all units to plant at the same depth.

Each planting unit has a spring which can be adjusted to increase or decrease the down pressure on the planting unit.

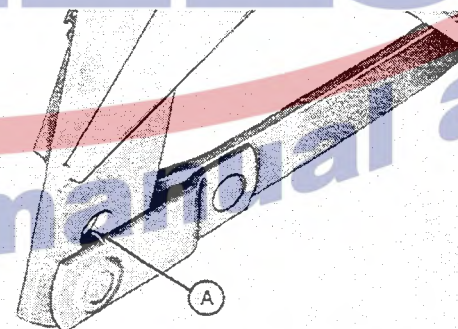
If the runner tends to ride out of the ground, raise the planter and move the adjusting bracket down to the next position as shown.

NOTE: Do not attempt to penetrate the plow pan. In hard ground conditions, this could cause the planter drive wheels to raise off the ground.



Adjust all planting units so the spring pressure is the same on each unit.

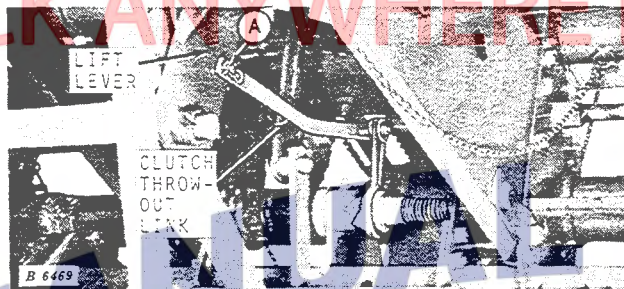
NOTE: When operating in the field, lower the planter only when the tractor is moving forward. This will prevent the planter runners from clogging in moist soil conditions.



In some field conditions where planter frame must be closer to ground than normal, and when there is no additional adjustment in pressure rod, position lift arm in hole "A" in wheel frame.

DRILL PLANTING

ENGAGING PLANTER DRIVE

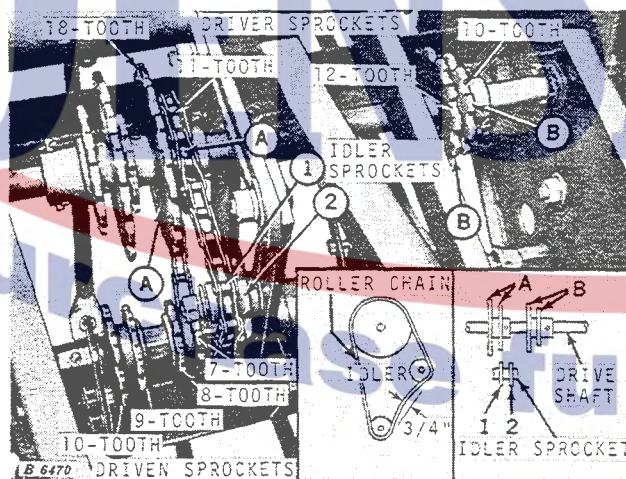


Pin the clutch throw-out link to the lift lever at "A" to engage the planter drive.

DRILLING DISTANCES

Sixteen different drilling distances can be obtained with each seed plate.

For drill planting, the sprocket setting varies the distance between seeds.



18- and 11-Tooth Driver Sprocket and No. 1 Idler Sprocket Combination

NOTE: No. 1 Idler Sprocket is used with the 18- and 11-Tooth Driver Sprocket combination at "A."

No. 2 Idler Sprocket is used with the 12- and 10-Tooth Driver Sprocket combination at "B."

The 12- and 10-Tooth Sprocket should be stored as shown above when not in use.

Position the chain idler so there is 3/4-inch slack in drive chain.



12- and 10-Tooth Driver Sprocket and No. 2 Idler Sprocket Combination

The chart on the following page gives the approximate drilling distances which are obtainable and the maximum recommended speed.

After planting about 80 rods, make a seed population check at selected operating speed. At speeds over 5 mph some seed grades may require a seed plate with slightly longer cells for better cell fill.

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