

# Canola Optimization

**MacDon<sup>®</sup>**  
*The Harvesting Specialists.*

# Canola Optimization

This information provides recommended attachments, settings and adjustments to optimize the FD1, D1 and Legacy Series headers for straight cutting canola



# Canola Optimization

## Recommended Dealer Installed Attachments

### Upper Cross Auger (Full Length)

- An Upper Cross Auger is necessary to aid in conveying the crop laterally in conjunction with the side drapers to the feed auger

### FD1 & D1

B6462- 30' (9.1 m)

B6463- 35' (10.6 m)

B6464- 40' (12.2 m)

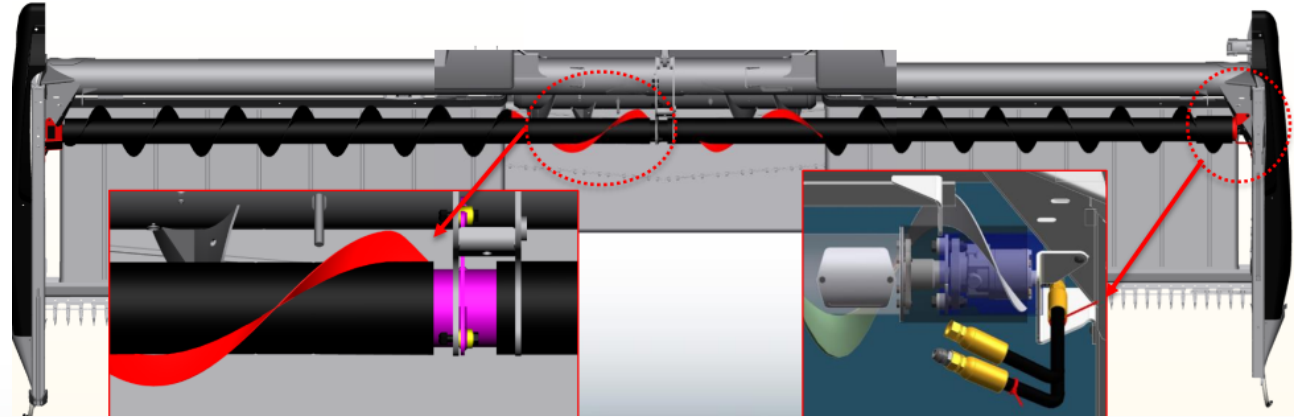
B6465- 45' (13.7 m) not full length

### FD70, FD75, D60, & D65

B6463- 35' (10.6m)

B4849- 40' (12.2m)

B4849- 45' (13.7m) not full length



Leave center beaters on upper cross auger (prior model) in ripe fluffy conditions, they aid in crop delivery into feed auger

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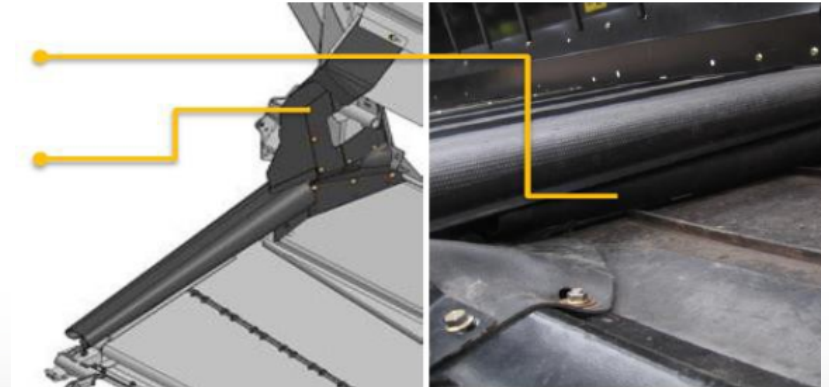
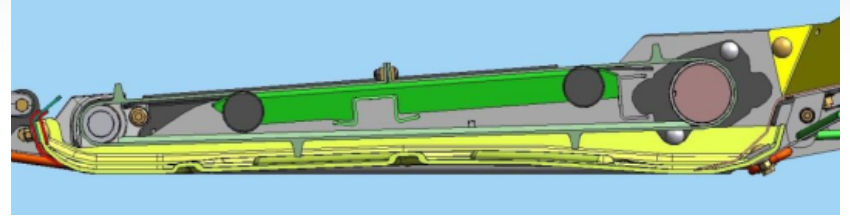
## Recommended Dealer Installed Attachments

### Seed Sealer Kit

- An optional Seed Sealer Kit designed specifically to seal the feed draper and side draper transition area to minimize losses in this shatter prone crop
- D1 and FD1 headers come standard with seed sealing components

**D60, FD70: B5661**

**D65, FD75: B5612**



# Canola Optimization

## Recommended Dealer Installed Attachments

### Relocate Reel Cylinders to Alternate “Aft” Position

- Allows the reel to be positioned 220 mm (9”) rearward (aft), enabling the reel to sweep canola into the Upper Cross Auger and reduce seed loss as the effective “Reel Sweep” and crop contact is behind the cutterbar
- Position may be suitable for other crops except for severely lodged situations where significant reel lifting action is required.

This procedure is outlined in the D60/FD70, D65/FD75 and D1/FD1 Op Manuals



# Canola Optimization

## Recommended Dealer Installed Attachments

### Center Reel Arm Short Brace Kit

#### D60 & FD70

- Not Required

#### D65 (dual reel), FD75, D1 and FD1

- B5605 allows reel position to be moved aft an additional 220 mm (9") behind cutter bar without interfering with reel support arms
- B6590 Rapid Reel Conversion Kit decreases the time required to change the fore-aft cylinder position on the reel support arms from the standard factory operating position to a farther rearward (canola) position that minimizes crop losses.



# Canola Optimization

## Feed Auger Optimization- Gearbox Sprocket

This information is for CA20 and CA25 adapters.  
The FM100 comes standard with the sprockets  
required to optimize performance

Optional higher speed sprockets for more capacity,  
available through MD Service Parts

**Manufactured Gearbox- 2011 and Prior**  
Lexion-Agco: 20 Tooth: MD Part #133425  
CNH-Deere: 26 Tooth: MD Part #133424

**Weasler Gearbox- 2012 and Newer**  
Lexion-Agco: 20 Tooth: MD Part #187523  
CNH-Deere: 26 Tooth: MD Part #187525



2012 and Newer Shown

# Canola Optimization

## Feed Auger Optimization- Fingers

This information is for CA20 and CA25 adapters. The FM100 comes standard with fingers required to optimize performance

1422 - 1676 mm (56" to 66") Feeder Openings - **25 Fingers**

1143 - 1397 mm (45" to 55" ) Feeder Openings - **23 Fingers**

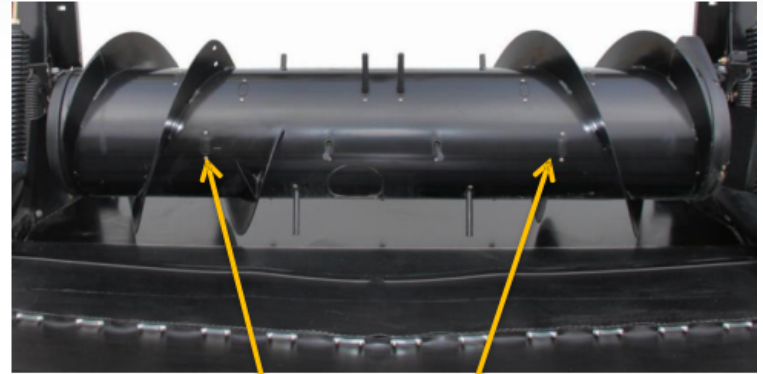
762 - 1118 mm (30" to 44") Feeder Openings - **17 - 19 Fingers**

Finger Assembly Part Number - **220938** Box of 5

Retaining Pin Part Number - **123180**

Finger Guide Part Number - **187081**

Ensure fingers are inboard min 50 mm (2") of Feeder Opening of Combine. Number of fingers may vary to achieve this, above is a guideline



Remove plugs and install additional fingers to both LH,RH



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## Feed Auger Optimization- Retention Springs

- Decrease spring tension to allow feed auger to move up for higher throughput
- Decrease LH and RH feed auger spring tension by loosening tensioning bolt until 15 mm (.60" ) of thread remains on the bottom end of the tensioning bolt for CA20 and CA25 (25mm / 1" for FM100)
- Ensure top jam nut is locked to new setting
- In lighter cereal crop conditions they may have to be retensioned if feeding issues occur



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## Initial Field Settings after Optimization

### Reel

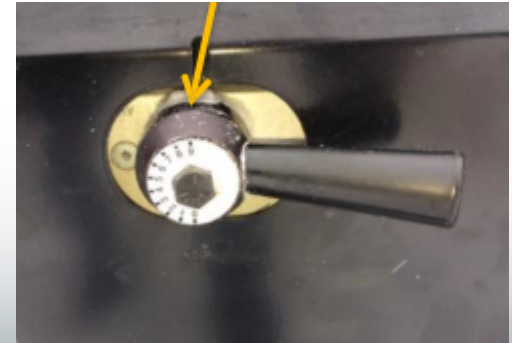
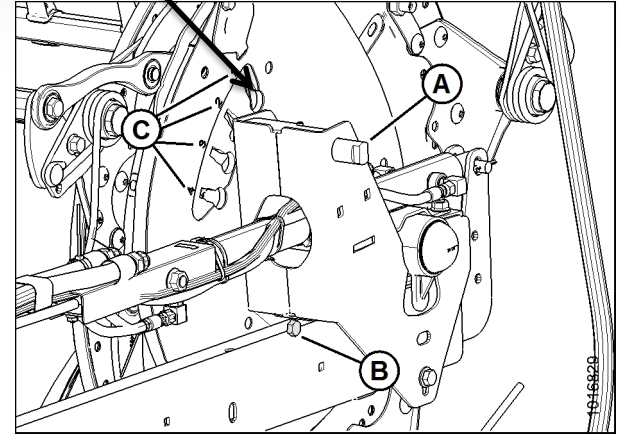
- Position reel as far rearward (aft) as possible (ensuring center of reel is behind cutterbar); delivering crop into the Upper Cross Auger
- Adjust reel height so that reel fingers just engage the crop
  - If reel is too low it can hamper crop flow
- Reel cam set to position 1
- Reel speed equal to ground speed

### Side Draper Speed

- Fully Open on CA20 and CA25 (position 9)
- Position **5** on FM100

Adjust as required for crop conditions

## Cam Position 1



# Canola Optimization

Once optimization is completed positive results and higher productivity rates in this crop will be observed.



**Thank You**

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