

MacDon D50/D60/FD70 - Case 2142/2152/2162 Quick Card

Recommended Header Settings for Direct Cutting

| OPERATING VARIABLES | | | | | | | | | | | | |
|---------------------|----------------|----------------|--------------|-----------------------|-----------------------|----------------------|-----------------|---------------------|---------------|-----------------------------|---------------------------|-------------------|
| Crop Type | Stubble Height | Crop Condition | Divider Rods | Draper Speed (Note 1) | Header Angle (Note 2) | Knife Speed (Note 3) | Reel Time Pitch | Reel Speed (Note 4) | Reel Position | Skid Shoe Position (Note 5) | Stabilizer Wheel (Note 5) | Upper Cross Auger |
| Cereals | Ground | Light | Off | 5 | Middle (B) | 600 - 650 | 3 | 10% - 15% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Heavy | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Recommended |
| | | Lodged | Off | 4 | Middle (B) | 525 - 600 | 3 or 4 | 5% - 10% | 4 or 5 | 1 or 2 | Storage | Not Required |
| | 4-8 inches | Light | Off | 5 | Middle (B) | 600 - 650 | 4 | 10% - 15% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Normal | On | 4 | Shallow (A) | 550 - 600 | 2 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Heavy | On | 4 | Shallow (A) | 550 - 600 | 2 | 10% | 6 or 7 | 2 or 3 | Variable | Recommended |
| | | Lodged | Off | 4 | Steep (D) | 525 - 600 | 3 or 4 | 5% - 10% | 4 or 5 | 3 | Variable | Not Required |
| | 10+ inches | Light | Off | 5 | Shallow (A) | 600 - 650 | 4 | 10% - 15% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Normal | On | 4 | Shallow (A) | 550 - 600 | 2 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Heavy | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Lodged | Off | 4 | Middle (B) | 525 - 600 | 3 or 4 | 5% - 10% | 4 or 5 | Not Applicable | Variable | Not Required |
| Canola | 4-8 inches | Light | On | 4 | Shallow (A) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 3 | Variable | Recommended |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 1 | 10% | 6 or 7 | 2 or 3 | Variable | Recommended |
| | | Heavy | On | 5 | Middle (B) | 550 - 600 | 1 | 10% | 3 or 4 | 3 | Variable | Recommended |
| | | Lodged | On | 4 | Steep (D) | 525 - 600 | 2 | 5% - 10% | 3 or 4 | 2 or 3 | Variable | Recommended |
| | 10+ inches | Light | On | 4 | Shallow (A) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | Not Applicable | Variable | Recommended |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | Not Applicable | Variable | Recommended |
| | | Heavy | On | 5 | Middle (B) | 550 - 600 | 1 or 2 | 10% | 3 or 4 | Not Applicable | Variable | Recommended |
| | | Lodged | On | 4 | Steep (D) | 525 - 600 | 2 or 3 | 5% - 10% | 3 or 4 | Not Applicable | Variable | Recommended |
| California Rice | Ground | Light | Whisker (6) | 2 | Steep (D) | 600 - 650 | 2 | 10% - 15% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Normal | Whisker (6) | 2 | Middle (B) | 550 - 600 | 2 | 10% | 4 or 5 | 1 or 2 | Storage | Not Required |
| | | Heavy | Whisker (6) | 2 | Middle (B) | 550 - 600 | 2 | 10% | 4 or 5 | 1 or 2 | Storage | Not Required |
| | | Lodged | Whisker (6) | 2 | Steep (D) | 525 - 600 | 2 | 5% - 10% | 4 or 5 | 1 or 2 | Storage | Not Required |
| | 4-8 inches | Light | Whisker (6) | 2 | Steep (D) | 600 - 650 | 3 | 10% - 15% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Normal | Whisker (6) | 2 | Middle (B) | 550 - 600 | 3 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Heavy | Whisker (6) | 2 | Middle (B) | 550 - 600 | 3 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Lodged | Whisker (6) | 2 | Steep (D) | 525 - 600 | 4 | 5% - 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | 10+ inches | Light | Whisker (6) | 2 | Shallow (A) | 600 - 650 | 3 | 10% - 15% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Normal | Whisker (6) | 2 | Middle (B) | 550 - 600 | 3 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Heavy | Whisker (6) | 2 | Middle (B) | 550 - 600 | 3 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Lodged | Whisker (6) | 2 | Steep (D) | 525 - 600 | 4 | 5% - 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| Delta Rice | 2-6 inches | Light | Off | 3 | Steep (D) | 600 - 650 | 2 or 3 | 10% - 15% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Normal | Off | 3 | Middle (B) | 550 - 600 | 2 or 3 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Heavy | Off | 3 | Middle (B) | 550 - 600 | 2 or 3 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Lodged | Off | 3 | Steep (D) | 525 - 600 | 3 or 4 | 5% - 10% | 4 or 5 | 2 or 3 | Variable | Not Required |
| | 8 + inches | Light | Off | 3 | Shallow (A) | 600 - 650 | 2 or 3 | 10% - 15% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Normal | Off | 3 | Middle (B) | 550 - 600 | 2 or 3 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Heavy | Off | 3 | Middle (B) | 550 - 600 | 2 or 3 | 10% | 6 or 7 | Not Applicable | Variable | Not Required |
| | | Lodged | Off | 3 | Steep (D) | 525 - 600 | 3 or 4 | 5% - 10% | 4 or 5 | Not Applicable | Variable | Not Required |
| Soybeans | Ground | Light | On | 5 | Steep (D) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Heavy | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Lodged | On | 4 | Steep (D) | 525 - 600 | 2 | 5% - 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| Flax | 2 - 6 inches | Light | On | 5 | Middle (B) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Normal | On | 4 | Shallow (A) | 600 - 650 | 2 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Heavy | On | 4 | Middle (B) | 600 - 650 | 2 | 10% | 6 or 7 | 2 or 3 | Variable | Not Required |
| | | Lodged | On | 4 | Steep (D) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 3 | Variable | Not Required |
| Peas | Ground | Light | On | 4 | Middle (B) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 1 or 2 | Storage | Recommended |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Recommended |
| | | Heavy | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 4 or 5 | 1 or 2 | Storage | Recommended |
| | | Lodged | On | 4 | Steep (D) | 525 - 600 | 2 | 5% - 10% | 4 or 5 | 1 or 2 | Storage | Recommended |
| Lentils | Ground | Light | On | 5 | Middle (B) | 600 - 650 | 2 | 5% - 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Normal | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Heavy | On | 4 | Middle (B) | 550 - 600 | 2 | 10% | 6 or 7 | 1 or 2 | Storage | Not Required |
| | | Lodged | On | 4 | Steep (D) | 525 - 600 | 2 | 5% - 10% | 6 or 7 | 1 or 2 | Storage | Not Required |

Notes:

1. Draper speed is given as the amount of complete turns out from fully closed on the speed control knob. To set draper speed, turn knob fully clockwise then turn counter clockwise the number of complete turns outlined in chart above.
2. It is recommended to have the guard angle as shallow as possible. Center link position depends on skid shoe and stabilizer wheel position. Set guard angle and skid shoe position to maximize amount of poly on the ground while maintaining desired cutting height.
3. Knife speed is given as minimum knife drive pulley RPM for single knife drive headers only.
4. Reel speed given as a percentage above ground speed.
5. Cutting height is controlled with a combination of skid shoes, stabilizer wheels and header angle. Having the header "ride" on the skid shoes or stabilizer wheels allows the adapter to float the header over obstacles and follow grand contours.
6. Whisker divider has to be ordered through parts. Having the divider rod at its shallowest or second to shallowest setting provide good dividing in standing crop. In down crop this setting allows the divider to skim over the down crop and provide down pressure on the crop to aid in a cleaner cut at the RH edge. The LH divider is not as crucial as it usually only comes into play when opening a check. There is no need to have a matched set of divider rods between the LH and RH ends.

Float Adjustments for Header Models D50/D60/FD70 – 2142/2152/2162

(Supplement to set-up in Operators Manual. See Operators Manual for greater detail.)

This instruction is intended as a quick reference for setting the float on the models listed above as well as wing balance on the FD70 Flexdraper and Case 2162 headers. Please ensure all set-up, as outlined in the operators manual has been completed prior to following the steps listed below.

Adapter Float (all headers):

1. Adjust header settings to match the following:
 - a. Lock wings into the rigid position (FD70 / 2162 only).
 - b. Set guard angle at mid position (B and ½ as indicated on the indicator mounted on the combine adapter if equipped).
 - c. Set the reel in the mid fore-aft position (5 or 6 on the indicator).
 - d. Lower reel all the way to the cutter bar.
 - e. Store stabilizer wheels in the storage position, off the ground (if equipped).
 - f. Raise header so cutter bar is 6-10" off the ground.
 - g. Engage adapter float by placing handle in the down position.
2. Set adapter float.
 - a. Tighten adapter float springs until washer under down stop nut becomes loose. See figure 1.

Note: It is recommended that you rock the header as you adjust the float springs to reduce errors due to friction.

- b. Back off 2 full turns on each coil spring to ensure header rests back on down stop.

Note: This setting is for cutting on the ground only. If cutting off the ground, float may need to be set heavier to avoid excessive bouncing and uneven stubble height. Stabilizer wheels are also recommended when cutting off of the ground.

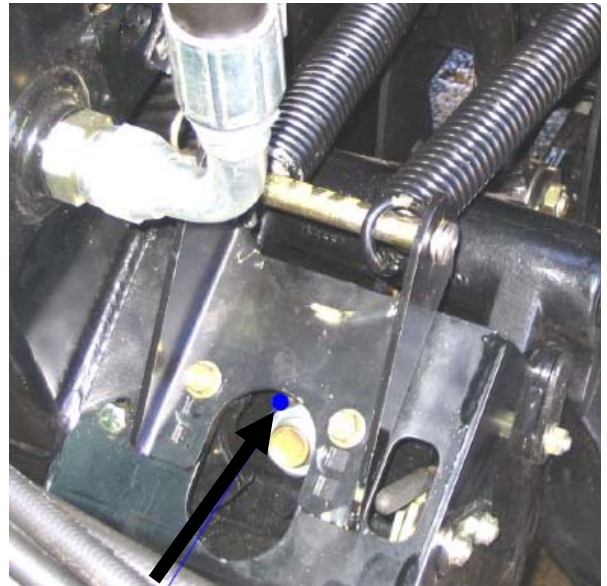
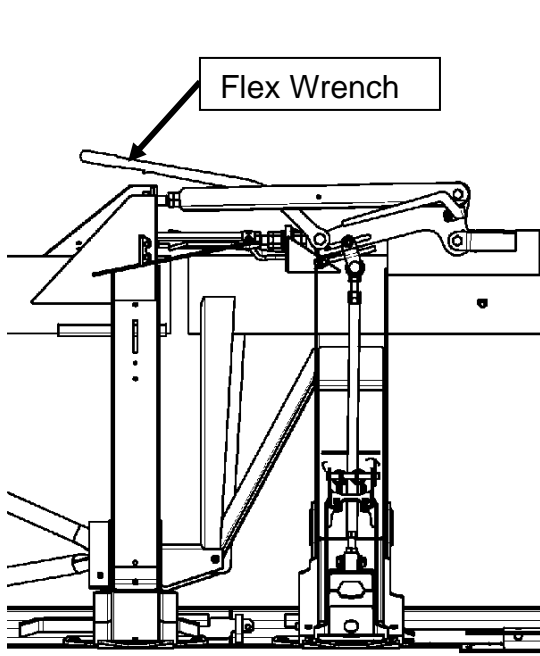
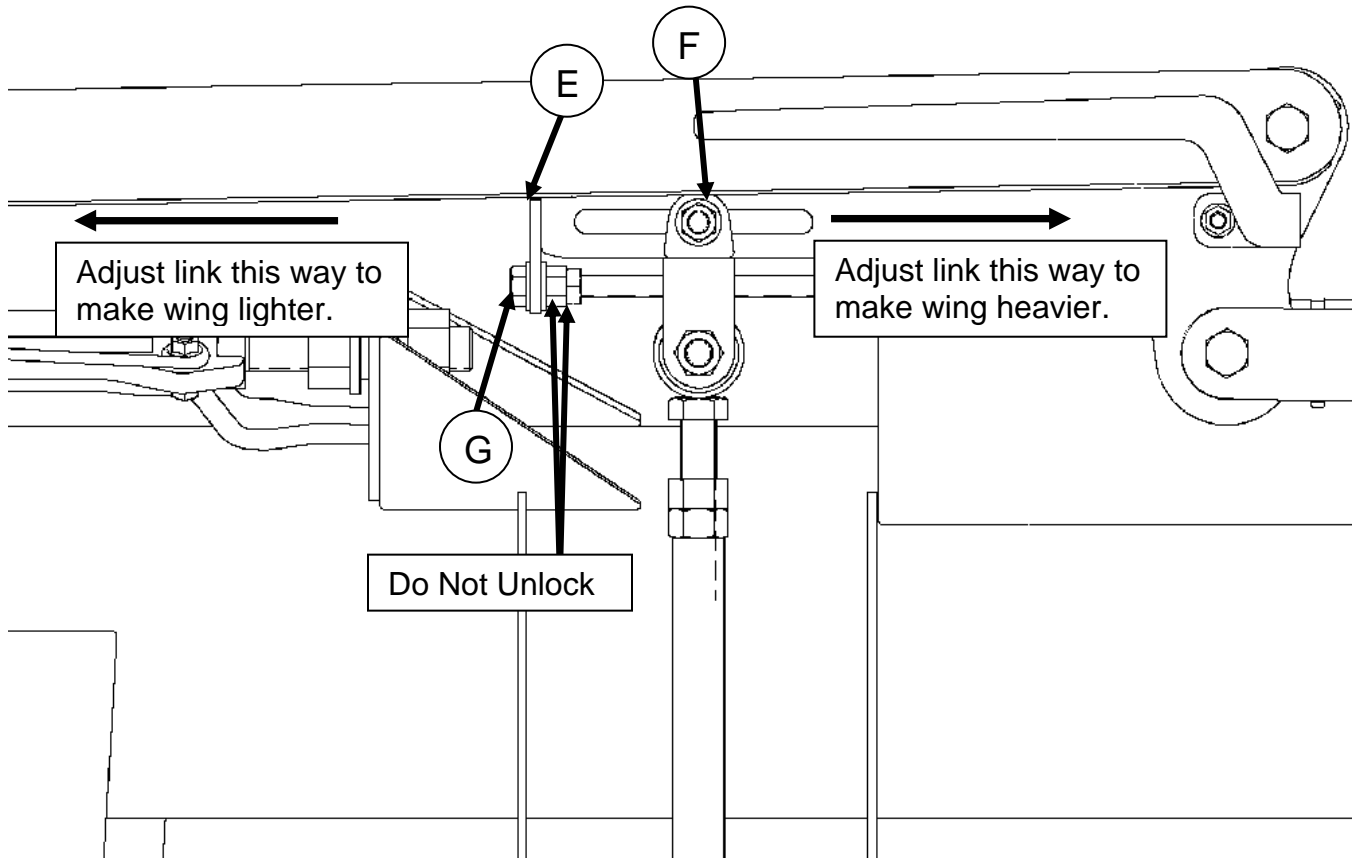


Figure 1

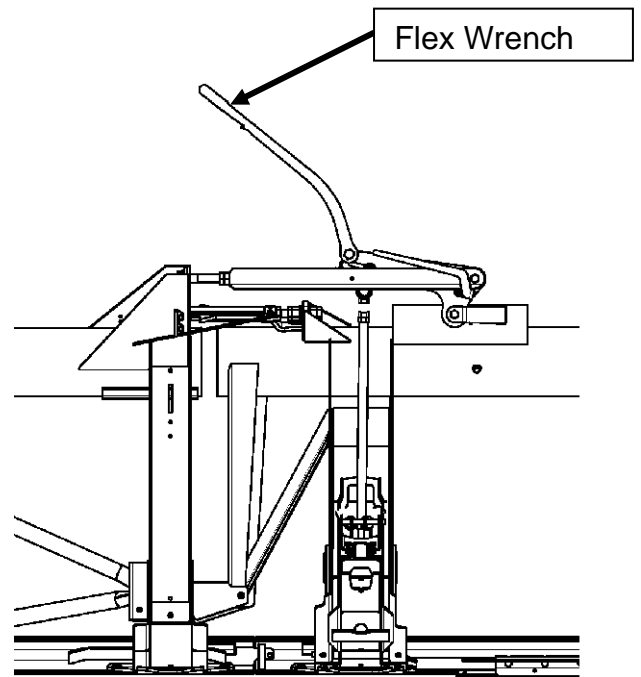
Wing Balance (for FD70 / 2162 only):

3. Set wing balance. See illustrations on next page.
 - a. Remove poly linkage cover.
 - b. Unlock wings by moving lever to unlock position. If wing does not unlock use wrench (stored in R/H leg) to apply torque to bolt E (see illustration next page) to turn the bell crank.
 - c. Move wing up and down by applying torque to bolt E (see illustration next page) to turn the bell crank.
 - d. Adjust wing balance so that the wing can be moved into smile (up) or frown (down) with approximately the same force.
 - i. If wing tend to smile (stay up), loosen clamp bolt F and turn draw bolt G counterclockwise to move the clevis inboard
 - ii. If wing tends to frown (stay down), loosen clamp bolt F and turn draw bolt G clockwise to move the clevis outboard.

FD70 / 2162 Wing Balance Adjustment



FULL FROWN



FULL SMILE

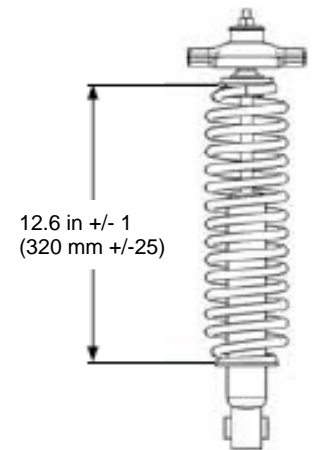
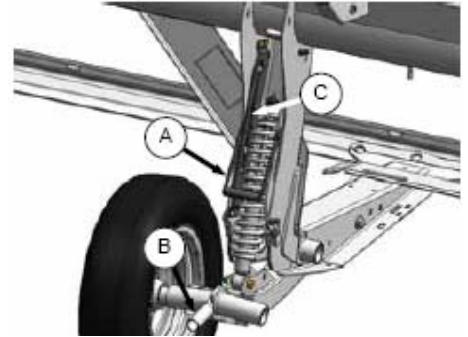
Stabilizer Wheel Height Adjustments

The stabilizing wheel system in both options is designed to minimize bouncing at the header ends and may be used to “float” the headers to achieve an even cutting height when cutting above ground level in cereal grains.

Note: Using the stabilizer wheels when operating with the cutterbar on the ground (i.e. cutting soybeans) is not recommended. They should be fully raised to prevent contact with the ground.

For Stabilizer Wheels only:

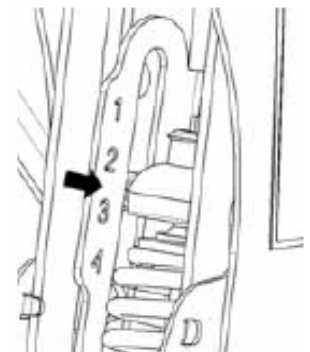
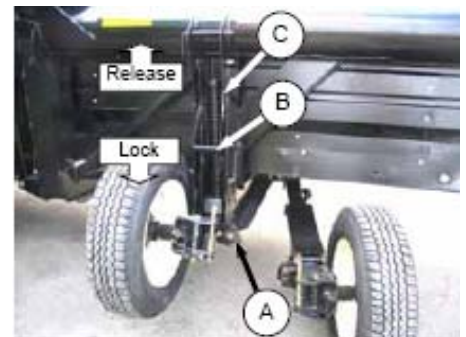
1. Ensure adapter float is properly set.
2. Raise header above desired cutting height using windrower or combine controls.
3. Support wheel weight by lifting slightly on handle (B) with one hand.
4. Pull up on handle (A) to release lock.
5. Lift wheel with handle (B) to desired height and engage support channel into slot (C) in upper support.
6. Push down on handle (A) to lock.
7. Lower header to desired cutting height using combine or windrower controls, and check spring length as shown. Readjust wheels as required to achieve proper range. Overall spring length should be 12.6 in (320 mm).



Note: Continuous operation with excessive spring compression (spring length shorter than 11.6 in/295 mm) can result in damage to the suspension system.

For Transport/Stabilizer Wheels only:

1. Ensure adapter float is properly set.
2. Raise header above desired cutting height using windrower or combine controls.
3. Disengage latch (A) and lift right wheel out of hook and place on ground as shown. This reduces weight of assembly and makes adjusting wheel position easier.
4. Support wheel weight by lifting slightly with one hand. Pull up on handle (B) to release lock.
5. Lift wheel to desired height and engage support channel into slot (C) in upper support.
6. Push down on handle (B) to lock.
7. Lift right hand wheel back into field position and ensure latch (A) is engaged.
8. Lower header to desired cutting height using combine or windrower controls, and check spring compression as shown. Readjust wheels as required to achieve proper range. Load indicator should be between 2 and 3.



Note: Continuous operation with excessive spring compression (load indicator reading greater than #4) can result in damage to the suspension system.