

# D1 Series Draper Header / FM100 Float Module Quick Card

## IMPORTANT:

Read your operator's manual and complete all the pre-adjustment tasks before setting the header float.

### Step 1: Pre-adjustments

1. Park combine on a level surface, and ensure the combine feeder house is level. Refer to your combine operator's manual for instructions.
2. Ensure combine tires are equally inflated.
3. Adjust header so cutterbar is 154–254 mm (6–10 in.) off the ground.
4. Set guard angle to mid-position (A) (between reading B and C on the indicator).
5. Set the reel fore-aft to mid-position (between marker 5 and 6 on reel arm decal).
6. Fully lower the reel and shut down the combine.
7. Place both header float locks in unlocked (lowered) position (B) (right side float lock shown).
8. If equipped, set stabilizer/transport wheels to the fully raised position.

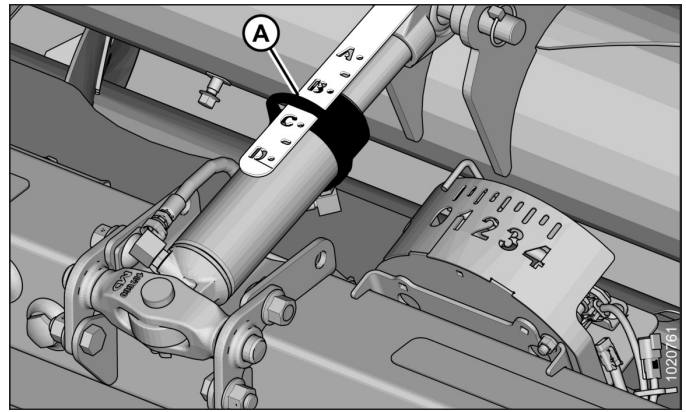


Figure 1: Center-Link

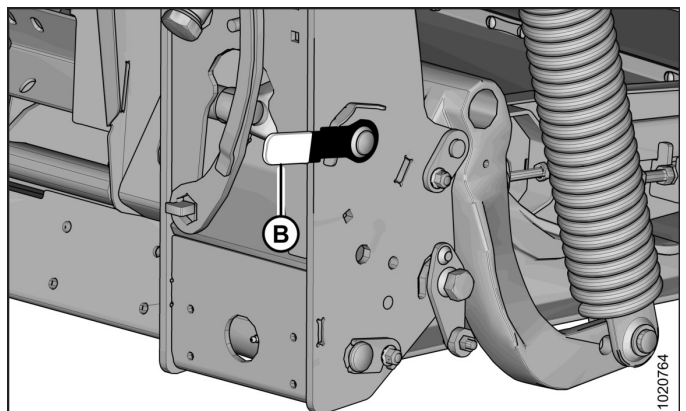


Figure 2: Float Unlocked – Right Side

### Step 2: Checking Header Float

1. Remove the supplied torque wrench (C) from the storage position on the right side of the FM100 Float Module.
2. Place the torque wrench onto the float lock (D). Note the change in orientation of the wrench between the left and right side.
3. Push down on torque wrench until bell crank (E) rotates forward.
4. Continue pushing down until indicator (F) on wrench reaches MAXIMUM reading and begins to decrease. Note the maximum reading.
5. Repeat above steps for opposite side.
6. Ensure the readings match the values in Table 1.1: Float Settings. If readings don't match the table values, adjust float settings (refer to Step 3: Setting Header Float).

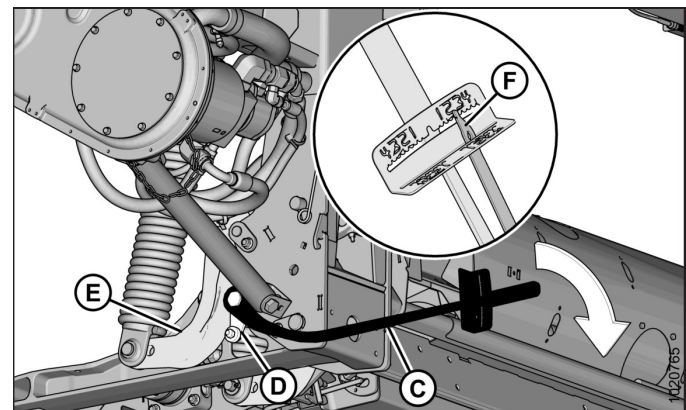


Figure 3: Checking Float – Left Side

Table 1.1: Float Settings

Header Size	Torque Settings	
	Cutting on the Ground	Cutting off the Ground
3.1, 7.6, 9.1, and 10.7 m (20, 25, 30 and 35 ft.)	1-1/2 to 2	2 to 2-1/2
12.2 and 13.7 m (40 and 45 ft.)	2 to 2-1/2	2-1/2 to 3

## IMPORTANT:

The torque settings in Table 1.1: Float Settings are recommended header float settings. It may be necessary to set float values outside of these ranges to accommodate varying crop and field conditions.

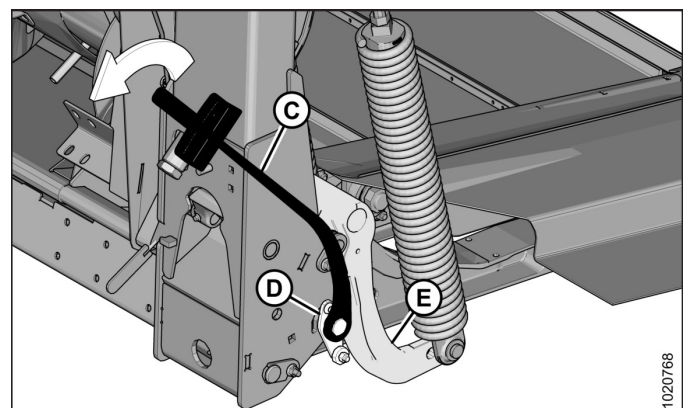


Figure 4: Checking Float – Right Side

## Step 3: Setting Header Float

1. Refer to Table 1.1: Float Settings for recommended initial float setting: If the reading on the wrench is high, the header is heavy. Increase float. If the reading on the wrench is low, the header is light. Decrease float.
2. Adjust the header float to match values in Table 1.1: Float Settings. Before adjusting float, rotate spring locks (A) out of the way by loosening bolts (B). Turn each float spring adjustment bolt (C) an equal amount.

**Increase float** (decrease header weight) by turning adjustment bolts (C) clockwise.

**Decrease float** (increase header weight) by turning adjustment bolts (C) counterclockwise.

**IMPORTANT:**

Ensure torque wrench reading is **EQUAL ON BOTH SIDES**.

3. Rotate spring locks (A) back into place and engage adjustment bolts (C) in spring lock cutouts. Tighten bolts (B) to secure spring locks (A).

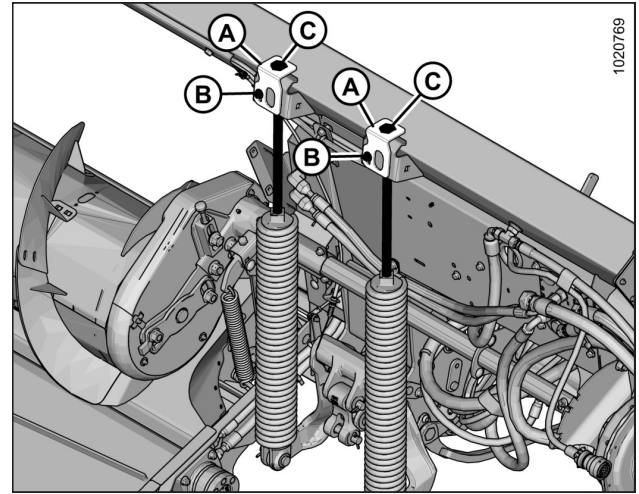


Figure 5: Float Adjustment Bolts – Left Side

## Recommended Fluids and Lubricants

Lubricant	Specification	Description	Use	Capacities
Grease	SAE multi-purpose	High temperature extreme pressure (EP) performance with 1% max molybdenum disulphide (NLGI Grade 2) lithium base	As required unless otherwise specified	—
		High temperature extreme pressure (EP) performance with 10% max molybdenum disulphide (NLGI Grade 2) lithium base	Driveline slip-joints	—
Gear Lubricant	SAE 85W-140	API service class GL-5	Knife drive box	2.2 liters (2.3 quarts)
			Main drive gearbox	2.5 liters (2.6 quarts)
Hydraulic Oil	Single grade trans-hydraulic oil Recommended brands: <ul style="list-style-type: none"> <li>• Petro-Canada Duratran</li> <li>• John Deere Hy-Gard J20C</li> <li>• Case Hy-Tran Ultraction</li> <li>• AGCO Power Fluid 821 XL</li> </ul>	Lubricant trans / hydraulic oil	Header drive systems reservoir	75 liters (20 US gallons)

## Break-In Inspections

Time	Item
<b>First 5 Minutes</b>	Check hydraulic oil level in reservoir (check after first run-up and after the hydraulic hoses have filled with oil).
<b>5 Hours</b>	Check for loose hardware and tighten to required torque.
	Check knife drive belts tension (check periodically for the first 50 hours).
<b>10 Hours</b>	Check auger drive chain tension.
	Check knife drive box mounting bolts.
<b>50 Hours</b>	Change float module gearbox oil.
	Change float module hydraulic oil filter.
	Change knife drive box lubricant.
	Check gearbox chain tension.
	Check deck height adjustment.

## Ongoing Maintenance Intervals

Time	Service
<b>Every 10 hours or daily</b>	Check hydraulic hoses and lines for leaks. Check knife sections, guards, and hold-downs. Check tire pressure. Grease knife (except in sandy conditions).
<b>Every 25 hours</b>	Check hydraulic oil level. Grease knifeheads.
<b>Every 50 hours</b>	Grease draper roller bearings. Grease driveline and driveline universals. Grease upper cross auger center support and U-joint. Change knife drive box lubricant.
<b>NOTE:</b> Refer to D1 Series / FM100 Operator's Manual for service beyond 50 hours.	