Proper Tractor Set-Up Steps

STEP ONE

Identify horsepower of the tractor.

EXAMPLE: *MFWD Case IH Magnum 180 Tractor with 165 PTO HP*

STEP TWO

Calculate the weight needed for proper tractor set-up based on tractor type. [SELECT ONE]

- **2WD** ..... 145 LBS x PTO HP
- **MFWD** ..... 130 LBS x PTO HP
- **4WD** ..... 110 LBS x Engine HP

EXAMPLE: *Tractor Type Weight (LBS) x PTO HP = Desired Tractor Weight (LBS)*

MFWD tractor 130 LBS x 165 PTO HP = 21,450 LBS Desired Tractor Weight

STEP THREE

Calculate the recommended front and rear axle weight splits based on the tractor type [SELECT ONE]

- **2WD** ..... FRONT 25% ..... REAR 75%
- **MFWD** [Draw Bar] ..... FRONT 35% ..... REAR 65%
- **MFWD** [3-point Hitch] ..... FRONT 40% ..... REAR 60%
- **4WD** ..... FRONT 51 - 55% ..... REAR 45 - 49%

EXAMPLE:

Front (or Rear) Axle % x Total Desired Tractor Weight = Desired Axle Weight (LBS)

MFWD tractor is used to pull a disk and planter.

Front: 35% x 21,450 LBS = 7,507 LBS

Rear: 65% x 21,450 LBS = 13,942 LBS

STEP FOUR

Weigh the tractor to determine actual weight.

EXAMPLE: *Weighed MFWD Case IH Magnum 180 Tractor with 165 PTO HP*

- *Front: 8,850 LBS*
- *Rear: 13,650 LBS*

STEP FIVE

Add or remove weight to the required axle for the optimum tractor set-up.

EXAMPLE:

Front Target 7,507 LBS – Front Actual 8,850 LBS = Remove Front -1,343 LBS

Rear Target 13,942 LBS – Rear Actual 13,650 LBS = Add +292 LBS

STEP SIX

Set inflation pressure using the Tire Inflation Calculator.

PROPER TIRE INFLATION

1] Utilize the Firestone Tire Inflation Calculator
http://inflacalc.firestoneag.com/
2] **Select Tire Size Marking:** Metric or Standard
3] **Enter Tire Size**
4] **Select Axle:** Front or Rear
5] **Enter the Axle Load**
6] **Select Tire Configuration:** Singles, Duals, or Triple
7] **Select Calculate**

TRACTOR EXAMPLE:

Case IH Magnum 180

- *Front Tire 380/85R34 Singles – Front Axle Weight 8,050 LBS ***
- *Rear Tires 480/80R46 Duals – Rear Axle Weight 13,650 LBS*

Determine the inflation pressure using the Firestone Inflation Calculator:

- *Front Tire 380/85R34 Singles 17 PSI*
- *Rear Tire 480/80R46 Duals 9 PSI*

***Front axle weight 8,050 LBS after all suitcase weights removed.*

For more information contact Firestone AG Engineering at **1.800.847.3364** or visit **FirestoneAg.com**.

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