

Instructions to ballast a Case IH tractor using the Weighting and Ballasting Calculator

The Case IH Weighting and Ballasting calculator was developed to assist owners and operators in improving the performance of their tractor quickly and easily. The Case IH Web-based Tractor Weighting and Ballasting calculator guides you to the best possible preferred tractor weight distribution. This is easily accomplished on any Tier 4A or Tier 4B Final Steiger, Magnum, Puma or Maxxum tractor. The guidelines and parameters within the program will provide you a suggested setup for the tractor to optimize performance in the field. Lighter tractors with properly inflated tires performing at higher field speeds, will commonly provide the best overall productivity and fuel economy while improving reliability and lessening compaction. Please note that these are recommended and you may need to modify, depending on your conditions and situation to achieve maximum productivity.

Getting Started:

To get started, click on the “Get Started” button. As you select the specifications of your tractor, the information will show to the left side of the screen and then click on “NEXT”. NOTE: At any time you can change the specifications of the tractor to meet the correct criteria (by clicking on the topic on the left hand side of the screen). NOTE: When you change a specification, the information following that change will be deleted, meaning the remaining items will have to be re-selected.

Once you have completed inputting the specifications desired, a recommended ballast weight will be generated. If you would like to generate custom ballast options, you can select the "Custom Options" button located on the results page.

1. Select a family by clicking on the drop down box highlight and click on the family of tractor desired (click NEXT) and then select either Tier 4A or Tier 4B (click NEXT).
2. Select the desired model from the drop down box, (click NEXT).
3. Select the options that apply to your tractor by clicking on them (click NEXT after each selection). The selection categories will be:
 - A. Transmission (click NEXT)
 - B. Front Axle (click NEXT)
 - C. Rear 3-point hitch (click NEXT)
 - D. Front 3-point hitch (if available) (click NEXT)
 - E. Drawbar (click NEXT)
4. Select the rear tires on your tractor (click NEXT).
5. Select the appropriate singles, duals, or triples (click NEXT).
6. If spacers are used, so select. (Particular tires on certain tractors require spacers) (click NEXT).

7. Select the appropriate front tires (click NEXT).
8. Select duals if appropriate and appropriate spacer (if available) (click NEXT).
9. Select the appropriate implement towing application. This will determine the proper front to rear weight ratio for the tractor for that application (click NEXT).
10. Select the load level by clicking on the desired field speed for the application (click NEXT).
11. NOTE: Enter the application weight if applicable (normally caused from a high vertical load or three point hitch mounted implement adding weight to the rear tires).
12. The Ballasting Results sheet should now display the Recommended ballast. The page is segmented:
 - A. Showing your tractor specifications to the left
13. Across the top there will be two "Boxes" - one showing the Target and the second showing the Recommended Results. The front, rear and total weight, with ratio percentage front and rear, with <pounds per horsepower > shown.
14. If the tractor cannot be ballasted per the desired criteria, a message will be shown to direct you to possible options. (Green check mark "✓" means successful, the Yellow Caution symbol "!" means you are within the 2% range of ratio, and the Red "X" means that a change may have to be made to the tractor specifications, application or field speed.
15. Below the message section you will see three boxed sections showing:
 - A. The unballasted setup
 - B. The Recommended ballast weight
 - C. The tire pressure for the front and rear and the individual tire load
16. At the top you will find a "Custom" area to customize the tractor to the application
 - A. This will allow you to re-ballast your tractor by adding weight in the custom ballast weight area.
 - i. Add weight to the front of the tractor
 - ii. Add weight to the rear of the tractor
 - B. This will give you the ability to compare the recommended ballast to the new weight ballast you have selected in the custom area.

Remember to always consult your proper tractor Operator Manual on any questions or limitations which may apply. This Weighting and Ballasting calculator is not intended to go against the Operator's Manual or any Case IH limitations or restrictions.