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How To...

How To Determine The Correct Axle Position

Axle position is important for proper weight distribution.

1. Weigh the trailer (under wheels) “Wheel Weight”
2. Obtain “Tongue Weight” (Actual)
3. Measure distance from tongue to axle, or to C between Dual Axle Set (D)
4. Determine Total Weight
 Total Weight = Tongue Weight + Wheel Weight

Figure 5: Axle Position



If tongue weight is greater than 10% of Total Weight, decrease distance “D” by “X” where

$$X = \frac{(\text{Tongue Weight} - 10\% \text{ Total}) \times D}{\text{Total Weight}}$$

Example #1

Tongue greater than 10% of Wheel Weight
 Tongue Weight = 1025#
 Wheel Weight = 7200#
 D = 264” Total Weight = 8225#
 % Tongue Weight = 1025 / 8225 = 0.1246 or 12.5%
 “X” = 1025 - 822.5 / 8225 Times 264 = 6.499”

Move the Axle(s) toward the Tongue of the trailer approximately 6 1/2”

New D = 264 - 6 1/2” = 257.5

If tongue weight is less than 10% of Total Weight, increase distance “D” by “X” where

$$X = \frac{(10\% \text{ Total} - \text{Tongue Weight}) \times D}{\text{Total Weight}}$$

Example #2

Tongue less than 10% of Wheel Weight
 Tongue Weight = 300#
 Wheel Weight = 8200#
 D = 264” Total Weight = 8500#
 % Tongue Weight = 300 / 8500 = 0.035 or 3.5%
 “X” = 850 - 300 / 8500 Times 264 = 17”

Move the Axle(s) toward the rear of the trailer approximately 17”

New D = D + 17” + 264 + 17 = 281”