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Axle Position When Building A Trailer

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:

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

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

X = (10% Total - Tongue Weight) Times DTotal Weight

Example #1

Tongue greater than 10% of Wheel Weight

Tongue Weight = 1025# Wheel Weight = 7200# D = 264" Total Weight = 8225#

% Tongue Weight = 300/8500 = 0.035 or 3.5% "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 - 61/2" = 257.5

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''