

With this example the calculated ratio of 4.50 is not available. The closest available ratios would be either a 4.30 or a 4.56. With most drag racing applications it is usually safe to go to the next highest numerical ratio (unless calculation was done with the engine rpm at it's max) since drag cars do have to deal with tire growth. In this case the 4.56 ratio would be the choice. Again with this example the calculated ratio of 7.00 is not available and there is not a ratio close enough to use. This is where the transmission ratios come into play. To be able to get the desired result of a 7.00 final drive ratio the transmission will have to be run in a gear other than high. To find out what gear that will be, take the calculated ratio of 7.00 and divide it by the ratios in the transmission. For this example the third gear ratio in a four speed trans is 1.46.

Divide 7.00 by 1.46 = 4.93 ratio

As before the 4.93 is not an available ratio. The closest ratios would be either 4.86 or 5.00.

Note: Not all ratios are the same between makes of rear ends.Check the latest Mark Williams catalog to see what ratios are available for the type rear end being used.