
XR1200 & 2004-Up 883 Pulley & Sprocket Options

Available options, and how much percent change. You can mix and match to get what you want, just add the percentages together. The “38” is the 1200 engine sprocket, the “34” is the XR1200 & 883 engine sprocket. The stock 1200 has the 38/29/68 combo, the 883 has the 34/28/68 until 2010 when HD changed to a 34/29/68 combo on the 883. The XR1200's have the 883 combo, 34/28/68.

Pulley tooth count and the percent change:

- 28 to 30 = 7.1% (front)
- 28 to 32 = 14.3% (front) The 32 for XR's is only available in aluminum with a steel center. The 32 must run a custom pulley cover for clearance.
- 68 to 66 = 2.9% (rear)
- 34 to 38 = 11.8% (primary)

You can achieve 29.0% change, 50 mph (34/28/68) becomes 65 mph at same engine rpm (38/32/66).

Engine RPM at 70 mph. Stock is about 3725 rpm (34/28/68), 3000 is a minimum RPM target.

- 38/32/66 = 2660, which means 4th gear below 75.
- 38/32/68 = 2770, which means 4th gear below 75.
- 38/30/66 = 2930, which means 4th gear below 75, 883's.
- 38/30/68 = 3040
- 34/32/66 = 3100
- 34/32/68 = 3210
- 38/28/68 = 3300
- 34/30/66 = 3375
- 34/30/68 = 3480
- 34/28/66 = 3640
- 34/28/68 = 3750

Just ride your bike to find the engine rpm you'd like to cruise at in 5th gear. Find the sprocket combo that gives you that rpm at 70 mph, that is the pulley combo you'll be most happy. The benefit of front and rear pulley combo's is not having to open the primary to change to the 38.

While the XR1200's have tachometers, the 883's do not. Listed below is the engine RPM at different speeds. 883er's, just match your speedometer to the RPM and then pick your pulley combination above.

<u>MPH</u>	<u>RPM</u>	<u>MPH</u>	<u>RPM</u>	<u>MPH</u>	<u>RPM</u>
45	2400	60	3200	75	3990
50	2660	65	3460	80	4260
55	2925	70	3725	85	4520