**Belt Drive Sprockets—Installation Notes**

For pulleys with more teeth than stock (33T-34T), rear axle must be adjusted forward. Pulleys with less teeth than stock (30T, 31T or 29T) require the rear axle to be adjusted towards the rear of the bike.

Rear axle position adjustment for each tooth change on transmission sprocket = + /– .125 inches (3.2mm)

Rear axle position adjustment for each tooth change in belt length = + /– .280 inches (7.1 mm)

If there is not enough axle adjustment for the new pulley, use a belt with more (or less) teeth than stock.

Belt pulleys for new Milwaukee 8 bikes: 31 tooth power pulley, 34 tooth overdrive pulley and stock replacement (32 tooth) pulley. Page 24 shows the effect, in RPM, of changing transmission pulleys to different numbers of teeth. The final drive ratios are also shown.

The final drive ratio of engine RPM to rear wheel RPM on any HD bike can be calculated as follows:

\[ \text{Final Drive Ratio} = \frac{\# \text{ clutch teeth} \times \# \text{ engine teeth}}{\# \text{ rear wheel teeth} \times \# \text{ trans teeth}} \]

For M8 Baggers: \( FDR = \frac{46}{34} \times \frac{68}{32} = 2.87 \)

For M8 Soft Tails: \( FDR = \frac{46}{34} \times \frac{66}{32} = 2.79 \)

Also Available

- 32 Tooth Stock Replacement
  - 2017-2018 M8 Part# 290328

- 31 Tooth
  - 2017-2018 M8 Part# 290318

- 34 Tooth
  - 2017-2018 M8 Part# 290348

**Other years as listed below**

**Power Pulleys**

- 30 Tooth 6.4% More RPM
  - All ‘07–up & ‘06 Dyna Part# 290306
  - ‘94–‘06 except ‘06 Dyna Part# 290304
  - 85–‘93 Part# 290300

- 29 Tooth 9% More RPM
  - ‘94–‘06 except ‘06 Dyna Part# 290294
  - 85–‘93 Part# 290290

**Overdrive Pulleys**

- 34 Tooth 6.4% Less RPM
  - ‘06 Dyna Part# 290346
  - ‘94–‘06 Part# 290344
  - 85–‘93 Part# 290340

- 33 Tooth 3% Less RPM
  - ‘94–‘06 except ‘06 Dyna Part# 290334
  - 85–‘93 Part# 290330

**Stock Pulleys**

- 32 Tooth Stock Replacement
  - 2017-2018 M8 Part# 290328