

## BIG TWIN TRANSMISSION BELT SPROCKETS

Fits all EV80 and Twin 88 5 and 6 speed transmissions, 29, 30, 31, 33 and 34 teeth available



32 tooth stock replacement sprockets available - Spring '04

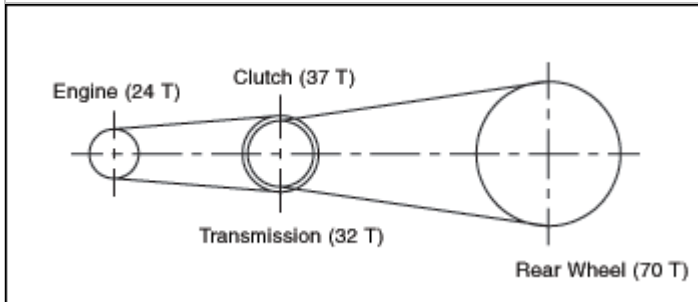
<b>POWER SPROCKETS:</b> 29 Tooth sprockets 9% MORE RPM*	<b>OVERDRIVE SPROCKETS:</b> 34T sprockets 6% LESS RPM* (180 RPM drop in engine RPM @ 60 MPH)	<b>POWER SPROCKETS:</b> 31T sprockets 3% MORE RPM*
<b>Part #290290</b> ('85-'93) <b>Part #290294</b> ('94-up)	<b>Part #290344</b> ('94-up) <b>Part #290340</b> ('85-'93)	<b>Part #290314</b> ('94-up) <b>Part #290310</b> ('85-'93)
30 Tooth sprockets 6% MORE RPM*	*More RPM means more power; less RPM means more MPH than stock 32 T sprocket.	33T sprockets 3% LESS RPM*
<b>Part #290304</b> ('94-up) <b>Part #290300</b> ('85-'93)		<b>Part #290334</b> ('94-up) <b>Part #290330</b> ('85-'93)

Andrews sprocket pulleys match 1994 style design. This arrangement has the advantage of 50% longer internal spline length compared to the early design. New style pulleys will fit both early (1985-1993) and late transmission shafts. Overall Belt drive ratio changes of 3%, 6% or 9% are very noticeable to a rider! *All '85- '93 pulley kits have new style spacer, lock ring, retainer bolts and seals included as part of the kit. Pulley kits for '94-up must use original stock seal and lock ring.*

Sprocket Tooth Counts & Ratios 1994-2001 (36 T clutch-25 T engine sprocket)			Sprocket Tooth Counts & Ratios 1985-1993 (37 T clutch-24 T engine sprocket)		
TRANS.	REAL WHEEL	OVERALL	TRANS.	REAR WHEEL	OVERALL
29	70	3.48	29	70	3.72
30	70	3.36	30	70	3.60
31	70	3.25	31	70	3.48
32 (Stock)	70	3.15	32 (Stock)	70	3.37
33	70	3.05	33	70	3.27
34	70	2.96	34	70	3.17

29	65 ('95 softail)	3.23	29	61 ('93 softail)	3.24
30	65 ('95 softail)	3.12	30	61 ('93 softail)	3.13
31	65 ('95 softail)	3.02	31	61 ('93 softail)	3.03
32 ( <i>Stock</i> )	65 ('95 softail)	2.93	32 ( <i>Stock</i> )	61 ('93 softail)	2.94
33	65 ('95 softail)	2.83	33	61 ('93 softail)	2.85
34	65 ('95 softail)	2.75	34	61 ('93 softail)	2.76

### BELT DRIVE SPROCKETS - INSTALLATION NOTES



Installing a transmission sprocket with more or less teeth than stock requires adjusting the rear axle forward (for more teeth on sprocket) or backwards (for less teeth on sprocket).

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

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

If there is not enough axle adjustment at the rear frame, it may be necessary to use a belt with more or less teeth. There are at least 8 different drive belts available at this time. They have 126, 128, 130, 132, 133, 135, 136 or 139 teeth. The only sure way to tell which belt you have is to physically count the teeth. (Use a paint mark for reference).

1984-1993 EV80 overall final drive ratio (engine to rear wheel) is 3.37 to 1

$$\text{Overall} = ( 37 / 24 ) \times ( 70 / 32 ) = 3.37$$

1994-2001 EV80 overall final drive ratio (engine to rear wheel) is 3.15 to 1