Table of Contents

REF: Gears, Sprockets, Belts - Sub-01A	3
Installing Chain-to-Belt Conversion	3
Parts	3
Details	

Last update: 2023/01/25 07:33	techtalk:ref:transfinal01a http://www.sportsterpedia.com/doku.php/techtalk:ref:transfinal01a

Go To Technical Menu

REF: Gears, Sprockets, Belts - Sub-01A

Installing Chain-to-Belt Conversion

This conversion information provided by 'dave76' of the XLForum - http://xlforum.net/forums/showthread.php?t=2082025

I finally found time to finish this project on my 1990 1200 XLH Sportster. I took it for a ride afterwards (it was freezing weather - but I enjoyed it). The belt is definitely quieter and smoother than the chain configuration.



Parts

I found multiple used rear pulleys on eBay under \$50. I got a used but perfect 128 tooth belt for \$65. I got the belt guard for \$35. Only bought a new VTwin front pulley for \$85.





Top: Belt guard ———- Bottom: 4 speed chain guard



A standard 1991 Belt Drive Sprocket Cover will be needed. The left middle bolt will not be used so I just placed a short faux bolt and nut there.

The Belt I used was 1-1/8" wide with 128 teeth. This puts the axle adjuster in the middle of the range.

The main part numbers that I was able to find were:

40271-89 - Front drive pulley 27 tooth

40258-89 - Rear driven pulley (pulley only not the chrome guide cover).

40273-89 - Rear pulley chrome guide cover.

I cannot find the number for the top or bottom belt guards. I sourced my rear pulley off eBay, the front came from V-Twin (Taiwan teddy).

40022-91 - Drive Belt (Standard Harley 1-1/8 x 128 teeth).

Details

General

This kit is designed for installation on 1986 to 1990 XLH model vehicles with 4-speed transmission and chain-drive original equipment. We recommend that this kit be installed by your authorized Harley-Davidson dealer.

QTY DESCRIPTION

Plug, hole, 1/4 in. Screw, hex socket, 10-24 x 3/8 in. Screw, hex socket, 5/16-18 x 4 in. Screw, button head, 10-32 x 1/2 in. 2 Screw, self-tapping 5 Screw, hex cap, 7/16-14 x 1-1/2 in. Screw, hex cap, 3/8-16 x 2-1/2 in. 1 1 Washer, flat, 1-1/8 in. O.D. 2 Washer, flat, #10 2 Lockwasher, split, #10 Lockwasher, external tooth, #10 1 2 Nut. acorn, #10-32 2 Locknut, hex, #10-32 1 Nut. hex, 5/16-18 Nut, hex jam, 3/4-16 1 Cover, transmission sprocket 1 1 Belt, secondary Sprocket, transmission 1 1 Sprocket, wheel Cover, wheel sprocket 1 1 Clamp Guard, belt 1 Support, belt guard (early) 1 Support, belt guard (late, flat on bottom) 1 Plate, mounting Deflector, debris 1 Washer, flat, 37/64 O.D. 1 1 U-bolt 1 Tool, counterbore 1 Loctite, 271 1 Cotter pin, 1/16 x 3/4 in. Cotter pin, 5/32 x 1-1/2 in. 1

> Lockwasher, split, 5/16 in. Washer, flat, 7/8 in. O.D.

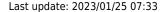
Washer, flat, 7/16 I.D.

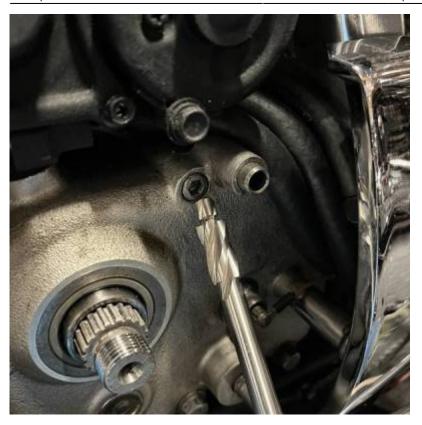
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I bought the counterbore from eBay. This is needed to sink one of the case bolts about 3/16 of an inch to provide better belt clearance.







To clear the new belt drive sprocket, I used a 1991-up Drive Sprocket Cover. On the engine, the top rear stand-off stud (near the motor mount) needs to removed. It is replaced with a $7/16-14 \times 2$ " bolt. The unused (open) hole in the sprocket cover just gets a faux bolt and nut.



Go To Technical Menu

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Last update: 2023/01/25 07:33

