



**DRIVEN BY POSSIBILITY™**



**FLEET AND HEAVY-DUTY**

# **BUS BELT TENSIONER SOLUTION**



## **BREAKTHROUGH SOLUTION FOR BUS A/C DRIVES**

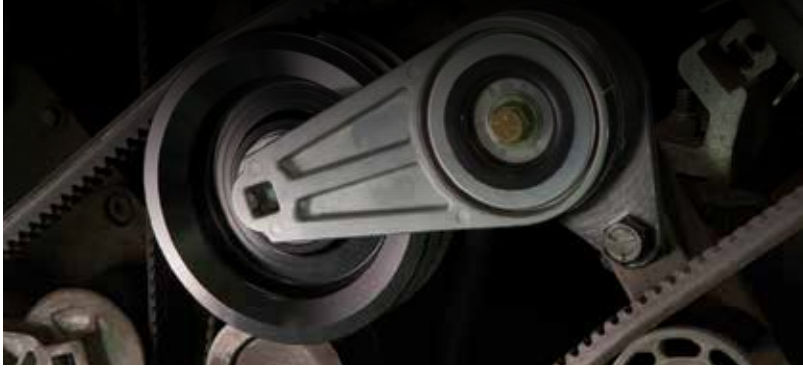
### **INSTALL CONFIDENCE. INSTALL GATES®.**

The new Gates Green Stripe™ DriveAlign™ Heavy-Duty Bus Belt Tensioner (#38655) significantly outlasts other tensioners in the punishing environment of the bus engine compartment. This purpose-built tensioner utilises all the patented features that make Green Stripe™ DriveAlign™ tensioners the best in the market today. Features include a longer swing arm, heavy-duty components and a large-diameter double groove pulley to accommodate PowerBand™ belts. In real-world testing, it delivered up to three times the service life of the OEM version. Smoother operation and superior damping increases belt life, reducing downtime and extending maintenance intervals. The exclusive, patented shoe damper absorbs shock loads better than any other tensioner brand – including OEM – and protects A/C compressor and generator bearings from shock loads and excess heat.

# CUSTOM APPLICATIONS MADE SIMPLE

The Gates Green Stripe™ DriveAlign™ Bus Belt Tensioner provides a solution to problem drives with two single or PowerBand™ belts with tensioning issues.

Gates Green Stripe™ DriveAlign™ Bus Belt Tensioner (#38655) includes an adapter plate that provides a wide range of positioning options and enables the tensioner to be installed on most engines, even those with retrofit brackets.



## GREEN STRIPE™ DRIVEALIGN™ TENSIONERS AND PULLEYS

Gates Green Stripe™ DriveAlign™ tensioners and pulleys are the longest lasting in the industry, and feature several exclusive, patented features that contribute to superior performance.

- Double row bearing and high-temperature grease provide up to 3 times the service life.
- Labyrinth seal prevents contamination of internal parts.
- Round spring design lasts longer than the flat-spring design with less flex-fatigue.
- Patented damping mechanism provides maximum stability, reducing vibration and increasing tensioner life.
- Patented pivot bushing ensures accurate pulley alignment.
- Long swing arm reduces tensioner movement and wear.
- Double groove pulley reduces pulley wear and extends belt life.

## ADDITIONAL TOOLS FOR CUSTOMERS



### PENCIL TENSION TESTER

Maximum deflection force of 30lbs. for small V-belts and synchronous belts.

Part #7401-0076



### SONIC TENSION METER

Measures the vibration of the belt span and instantly converts the vibration frequency into belt static tension. This is the span vibration method of tensioning belts.

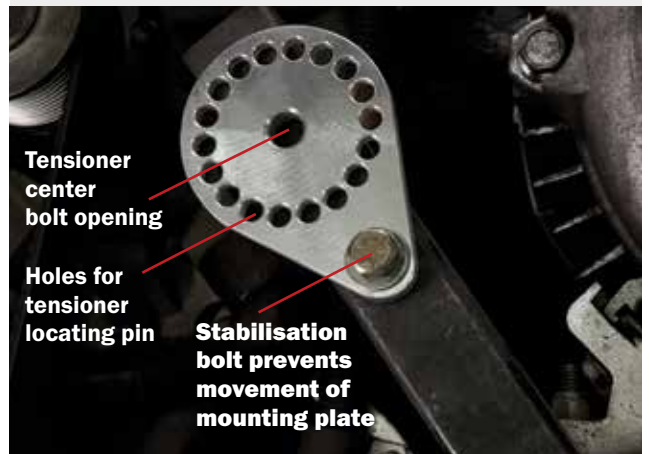
Part #7420-0508

#### Application Video link:

<https://youtu.be/S4g95xZLIUg>

<https://youtu.be/Ucia3gdTAac>

**Notes:** 5V PowerBand™ pulley fitted on tensioner. Compatible with 5V PowerBand™ belts. XPB or SPB PowerBand™ belts are not compatible with 5V pulleys. XPB and SPB single matched belts are compatible in 5V pulley.



#### GATES AUSTRALIA PTY LTD

1-15 Hydrive Close, Dandenong South, Victoria, 3175  
PH: +61 3 9797 9666 FAX: +61 3 9797 9600

#### GATESAUSTRALIA.COM.AU

FOLLOW: GATES AUSTRALIA



OCTOBER 2018



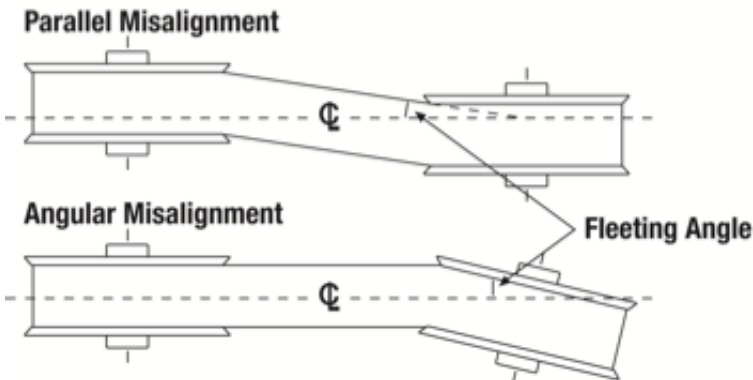
DRIVEN BY POSSIBILITY™

# INSTALLATION INSTRUCTIONS



This tensioner is designed to provide tension on applications using PowerBand™ belts. For best results follow the guidelines below.

- Install the tensioner on the slack side of the drive.
- Install the tensioner 1/3 of the way between two adjacent pulleys.
- Check for angular and parallel misalignment. Correct as necessary.



- A mounting bracket is included with this tensioner to help position the tensioner to provide optimal belt tension. With the belt installed, place the bracket on the back of the tensioner.
- Check that the tensioner mounting pin does not stick out on the other side of the bracket as this will result in angular misalignment. Shave off a few mm's of the pin if necessary.

**Fig. 1**

- Hold both components on the mounting surface to check for position. There are 18 different holes for the tensioner locating pin to properly position the tensioner. When the tensioner is installed, the line on the tensioner arm should be midway between the two marks on the spring housing (base).

**Fig. 3**

Mounting pin should not protrude through the back of the bracket



**FIGURE 1**



**FIGURE 2**

Position indicators on tensioner base



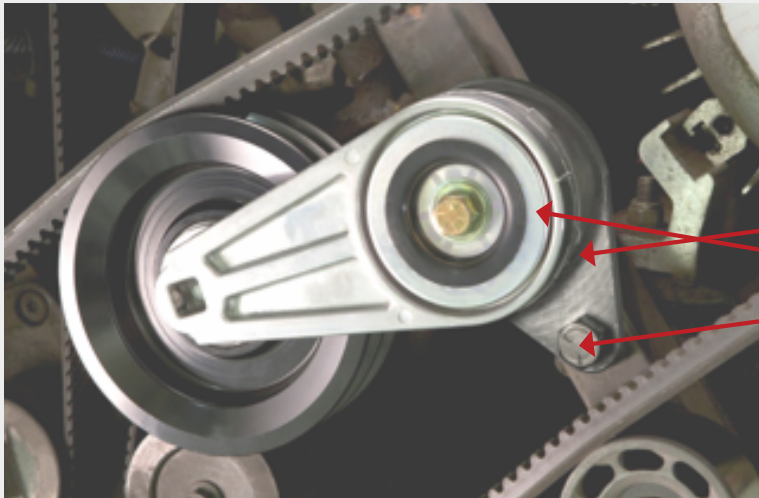
**FIGURE 3**

Position indicator on tensioner arm



**DRIVEN BY POSSIBILITY™**

- **Caution: Make sure that the bolt used to hold the mounting bracket in place does not interfere with the tensioner pulley**
- The bracket can be used to help shim the tensioner in the correct position or can be used as a template to drill the mounting holes needed to install the tensioner. **Fig 2. (Previous Page)**
- **Caution: Be sure to use a washer between the mounting bolt and the tensioner!**



**Arm position indicator is approximately centered between the two base indicator marks.**

**Here is a photo of the tensioner installed correctly. Note the position of the position indicator marks.**

**GATES AUSTRALIA PTY LTD**

1-15 Hydrive Close, Dandenong South, Victoria, 3175  
PH: +61 3 9797 9666 FAX: +61 3 9797 9600

**GATESAUSTRALIA.COM.AU**

FOLLOW: GATES AUSTRALIA



OCTOBER 2018