

# **Component Procedures: Timing Chain Tensioner**

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# Component Procedures: Timing Chain Tensioner

## Parts and Labor (itype\_189)

### Parts

Qualifier	Part #	Name	Price	Note
Tensioner > Primary	12609263	19 - Tensioner	91.69	
Tensioner > Secondary > Right	12609259	19 - Tensioner	83.41	
Tensioner > Secondary > Left	12609261	19 - Tensioner	87.59	

### Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	Chain Tensioner > All	B	7.7	0.0
Replace	Chain Tensioner > One	B	7.6	0.0
Replace	Shoes > One Bank	B	7.6	0.0
Replace	Shoes > Both Banks	B	7.7	0.0

## Secondary Camshaft Intermediate Drive Chain Tensioner Replacement - Left Side (Article 12200)

### Removal Procedure

- Remove the engine front cover . Refer to Engine Front Cover Replacement .
- Remove the left bank secondary camshaft drive chain tensioner. Refer to Camshaft Timing Chain Components Removal .
- Clean and inspect all of the camshaft timing drive components. Refer to Camshaft Timing Drive Components Cleaning and Inspection .

### Installation Procedure

- Install the left bank secondary camshaft drive chain tensioner . Refer to Camshaft Timing Chain Components Installation .
- Install the engine front cover. Refer to Engine Front Cover Replacement .

## Secondary Camshaft Intermediate Drive Chain Tensioner Replacement - Right Side (Article 12201)

### Removal Procedure

- Remove the engine front cover . Refer to Engine Front Cover Replacement .
- Remove the right side secondary camshaft drive chain tensioner. Refer to Camshaft Timing Chain Components Removal .
- Clean and inspect all of the camshaft timing drive components. Refer to Camshaft Timing Drive Components Cleaning and Inspection . Replace components as necessary.

### Installation Procedure

- Install the right side secondary camshaft drive chain tensioner . Refer to Camshaft Timing Chain Components Installation .
- Install the engine front cover. Refer to Engine Front Cover Replacement .

## Secondary Timing Chain Tensioner Shoe Replacement - Left Side (Article 12204)

### Removal Procedure

- Remove the engine front cover . Refer to Engine Front Cover Replacement .
- Remove the left side secondary camshaft drive chain tensioner, shoe, and guide. Refer to Camshaft Timing Chain Components Removal .
- Clean and inspect all of the camshaft timing drive components. Refer to Camshaft Timing Drive Components Cleaning and Inspection . Replace components as necessary.

### Installation Procedure

- Install the left side secondary camshaft drive chain shoe, guide, and tensioner. Refer to Camshaft Timing Chain Components Installation .
- Install the engine front cover. Refer to Engine Front Cover Replacement .

## Secondary Timing Chain Tensioner Shoe Replacement - Right Side (Article 12205)

### Removal Procedure

- Remove the engine front cover . Refer to Engine Front Cover Replacement .
- Remove the right side secondary camshaft drive chain tensioner, shoe, and guide. Refer to Camshaft Timing Chain Components Removal .

- Clean and inspect all of the camshaft timing drive components. Refer to Camshaft Timing Drive Components Cleaning and Inspection . Replace components as necessary.
- Installation Procedure
- Install the right side secondary camshaft drive chain shoe, guide and tensioner. Refer to Camshaft Timing Chain Components Installation .
  - Install the engine front cover. Refer to Engine Front Cover Replacement .

### **Primary Camshaft Intermediate Drive Chain Tensioner Replacement (Article 12195)**

#### Removal Procedure

- Remove the engine front cover . Refer to Engine Front Cover Replacement . [Click for full-size image](#)
- Remove the primary camshaft drive chain tensioner . Refer to Camshaft Timing Chain Components Removal .

#### Installation Procedure

- Install the primary camshaft drive chain tensioner. Refer to Camshaft Timing Chain Components Installation . [Click for full-size image](#)
- Install the engine front cover. Refer to Engine Front Cover Replacement .