



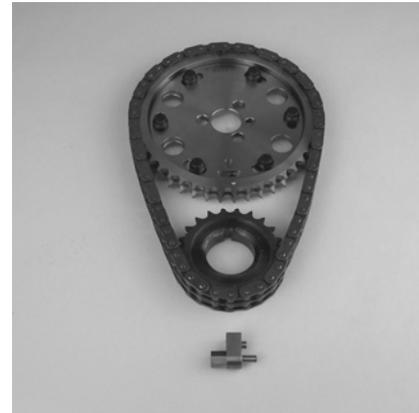
## INSTRUCTIONS

### 8100 Series Ultimate Adjustable Timing Sets

Thank you for choosing COMP Cams® products; we are proud to be your manufacturer of choice. Please read this instruction sheet carefully before beginning installation, and also take a moment to review the included limited warranty information.

#### Kit Contents

- (1) Adjustable Cam Sprocket
- (1) Double Roller Chain
- (1) Crank Sprocket
- (1) Adjustment Tool
- (1) Thrust Bearing
- (1) Bronze Thrust Washer (#8138 Kit Only)
- (1) Instruction Sheet



**Note: These cam sprockets have been designed to use the included thrust bearing between the sprocket & cam thrust plate.**

#### Installation Instructions:

The COMP Cams® 8100 series adjustable timing set makes infinite cam adjustment quick and easy. Simply install your 8100 series adjustable timing set with the adjustable cam sprocket aligned and tightened (13-14 ft./lbs.) to “0” for a straight up cam position or advance/retard your cam by adjusting the cam sprocket accordingly.

#### **Ford Windsor Instructions:**

To use the thrust bearing in the #8138 kit, you will need to counter sink the holes in the thrust plate and use counter sink bolts (not included), that will tighten flush or below the thrust plate surface. Affix the bearing to the engine side of the sprocket with the black mark facing the engine. **Note: Failure to perform this modification to the thrust plate will destroy the bearing during installation due to the thrust plate bolt to thrust bearing contact.**

#### **Thrust Bearing & Washer Installation:**

#### **Thrust Bearing Instructions**

1. Properly lubricate the thrust bearing assembly using engine oil.
2. For Ford engines: Install the bearing with the “black” mark facing the engine.



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### **Thrust Washer Instructions (#8138 Kit Only)**

- 1) Properly lubricate the thrust washer.
- 2) Install the thrust washer on the rear (machined surface) of the cam sprocket.

### **Adjustment Procedure:**

To make a cam timing adjustment once installed on the engine, first back off rocker arms to reduce spring pressure on the valve train. Next, loosen outer cam sprocket bolts and insert the adjustment tool supplied with the kit into the slotted holes in the cam sprocket. Use a 3/8" wrench or socket to turn and make the adjustment. Make sure the long pin on the tool goes into the outer most hole in the sprocket, below the slot, opposite the timing marks.

It is highly recommended to degree the cam in with a degree wheel to accurately determine actual cam timing. Make your adjustments to the cam sprocket and lightly tighten the cam sprocket bolts. **Then one at a time, remove the bolts, apply Red Locktite, re-insert and torque to 13-14 ft./lbs.**

**Note: It is recommended to loosen the rocker arms when adjusting cam timing. This allows the camshaft to be turned easier, preventing possible damage to the adjustment tool. Be sure you store your adjustment tool away until further adjustments are made.**

### **Limited Warranty**

Competition Cams, Inc. warrants that all of its products are free from defects in material and workmanship, and against excessive wear for a period of (1) one year from the date of purchase. This **limited warranty** shall cover the original purchaser.

**Competition Cams, Inc.'s obligation under this warranty is limited to the repair or replacement of its product.** To make a warranty claim, the part must be returned within (1) one year of purchase to the address listed below, freight prepaid. Items covered under warranty will be returned to you freight collect.

**It is the responsibility of the installer to ensure that all of the components are correct before installation. We assume no liability for any errors made in tolerances, component selection, or installation.**

**There is absolutely no warranty on the following:**

- A) **Any parts used in racing applications;**
- B) **Any product that has been physically altered, improperly installed or maintained;**
- C) **Any product used in improper applications, abused, or not used in conjunction with the proper parts.**

**There are no implied warranties of merchantability or fitness for a particular purpose.** There are no warranties, which extend beyond the description of the face hereof. Competition Cams, Inc. will not be responsible for incidental and consequential damages, property damage or personal injury damages to the extent permitted by law. Where required by law, implied warranties or merchantability and fitness are limited for a term of (1) one year from the date of original purchase.

This warranty gives you specific legal rights and you may also have other legal rights, which vary from state to state.



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