



## COMP Cams® Stud Girdles

### *Kit Components*

- 1 stabilizer bar for each cylinder head (either 1-piece or split design)
- 1 rocker arm adjusting nut for each valve. Most canted valve applications require different nuts for the intake and exhaust. Most kits have nuts with a small tru-arc ring to locate the bars on the nuts. All the nuts have posi-stop set screws in the nuts.

*Note: COMP Cams® Stud Girdles are CAD designed to fit stock stud locations, and CNC machined using the most precise equipment in the industry. Made simple and durable, they are guaranteed to fit properly on all heads with standard stud locations. Some aftermarket heads have relocated stud holes for wider valve centerlines, and unless that application is specifically listed, the girdle will probably not fit.*

### *Installation Instructions*

#### **Step 1**

Prior to installation, inspect and clean all parts. Using a 7/32" Allen wrench, back the set screw in the adjusting nut all the way up into the hex end of the nut. This will assure that there is proper room on top to set the lash on the valve.

#### **Step 2**

*Small Block Chevy & Ford, Pontiac* - With all rocker arms in place (make sure that the trunion of the rocker arm is counter bored for the adjusting nut to sit on), screw the polylocks down to secure the rockers. Leave them finger tight and do not worry about the set screw at this time. Make sure the nuts with the tru-arc ring are on the extreme end studs so that the bar cannot slide too far down the nut.

**Note: Proceed to Step 4.**

*Canted Valve Engines Big Block Chevy, 429-460 Ford* - These engines have a complex valve arrangement; therefore, the procedures are a little different. Initially, install only the top row of adjusting nuts. These are the intake studs and require the long adjusting nuts - (except for the 429-460 which have the same length adjusting nuts). As with the wedge engines, make sure the trunion of the rocker arm is properly rotated with the counter bore to the top.

#### **Step 3**

*Canted Valve Engines Big Block Chevy, 429-460 Ford* - Slide the bar onto the top row of adjusting nuts. **Do not force the bar on!** If everything is correct, it will slide on smoothly. Move the bar down until the bottom row of studs is centered in the bottom row of holes in the adjusting bar. Then slide the short exhaust nuts through the holes and thread them onto the bottom row of studs. Notice that the holes in the stud girdle bar are angled and therefore require the adjustment of the bar up and down so that the lower row of adjusting nuts will line up with their corresponding stud. It may be necessary to wiggle the bar to line up all of the nuts, but if the bar is at the correct position, the nuts will all start and go on correctly.

#### Step 4

When all nuts are installed and snugged down to the rocker arm, gently move the bar around to make sure it is centered on all the adjusting nuts. The final stage of this step is to lightly snug up the through bolts in the bar.

#### Step 5

At this time, it is a good idea to check valve cover stud girdle clearance. If the valve cover interferes with the girdle, COMP Cams® has several valve covers available, or there are many suitable products on the market.

#### Step 6

At this time, you must check clearances between the rocker arm, the girdle bars and the adjusting nuts. Watch the pushrod side of the rocker arm and rotate the engine through two complete revolutions to make sure the bar is not too far down on the nuts. Check to be sure that the slot in the rocker is not hitting the adjusting nut. There are many different types of adjusting nuts and many designs of rocker arms. These two parts must be compatible.

#### Step 7

Set the valve lash to the specified setting using the procedures as described in the camshaft installation procedures. It is important to note that the stud girdle bar is not intended to keep the adjusting nut from rotating, but rather to minimize flex in the entire system. If the adjusting nuts and set screws are not properly installed, the nuts will not stay tight and improper adjustment will result.

#### ***Rocker Arm Adjusting Nuts***

All COMP Cams® adjusting nuts are designed for the ultimate in strength and locking force. The stud girdle polylocks are precision ground for minimum run out and tapered for extra strength.

<b>Part #</b>	<b>Description</b>	<b>Stud Size</b>	<b>O.D. @ Rocker</b>
4508-16	Stud Girdle Adjusting Nut	7/16"	0.555"
4508S-1	Stud Girdle Adjusting Nut (w/ snap ring to hold girdle bar)	7/16"	0.555"
4509-16	Stud Girdle Adjusting Nut	3/8"	0.555"
4509S-1	Stud Girdle Adjusting Nut (w/ snap ring to hold girdle bar)	3/8"	0.555"
4510-8	Stud Girdle Adjusting Nut-Intake BB Chevy	7/16"	0.555"
4511-16	Stud Girdle Adjusting Nut	7/16"	0.555"
4513-16	Stud Girdle Adjusting Nut (for use with Jesel Stud Rocker System)	3/8"	0.597"



Competition Cams, Inc  
3406 Democrat Rd.  
Memphis, TN 38118  
(901)795-2400 FAX (901)366-1807  
www.compcams.com

**Part #144**  
**Revised 12/15/03**

## *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.



Competition Cams, Inc  
3406 Democrat Rd.  
Memphis, TN 38118  
(901)795-2400 FAX (901)366-1807  
www.compcams.com

**Part #144**  
**Revised 12/15/03**

