




INSTALLATION GUIDE

PARTS: 0414-0516, 0414-0517, 0414-0494, 0414-0495, 0414-0496, 0414-0497

PRELOAD SETTING CHART

RUNNING WEIGHT IS TOTAL OF: RIDER + RUNNING GEAR	NUMBER OF TURNS 
100-249 LBS	0
250-349 LBS	1
350-450 LBS	2
450+ LBS	3

RIDER PREFERENCE - Read Prior to Installation

This chart is not a one size fits all. What constitutes as a firm or a soft ride will vary from one rider to another based on rider preference. This chart is designed as a starting point when determining the preload adjustment of the AXEO cartridge. No matter the preload adjustment setting chosen, the AXEO cartridge will provide a luxury ride, while also improving handling and performance of the front suspension, regardless of rider weight. **It's up to the installer or rider to determine exactly the type of ride quality desired when adjusting preload to ensure customer satisfaction.**

Points to consider:

- **DO NOT include passenger weight when determining preload adjustment** as their weight is mainly over the rear shocks and it is only a factor under hard braking when the center of gravity of the motorcycle is shifted forward.
- **The AXEO will ride slightly firmer than stock with the nature of the design.** With an increase in performance you will feel more feedback from the front suspension over small road expansion joints, cracks, etc. Softer stock suspensions will result in the absorption of these small road imperfections; however, this will result in an undesirable reaction when encountering the larger potholes, uneven bridge joints, cracks, etc. The AXEO will adsorb these larger road imperfections, without the jarring effect experienced with stock suspension.
- **The change in firmness of the AXEO is significant when increasing or decreasing preload adjustment.**

Rider Preference Scenario 1:

Rider weighs 250 lbs. with gear. Rider states they would prefer a comfortable ride with an increase in performance = stay with 0 turns of preload

Rider Preference Scenario 2:

Rider weighs 250 lbs. with gear. Rider states they prefer a firmer feel in the front end and exercise the limits of their motorcycle when cornering, braking, etc. They understand the front suspension already will be slightly firmer than stock and are aware of the noticeable change in firmness between setting 0 and 1 turn of preload = adjust with 1 turn of preload.

This preference interpretation can be applied to all weight ranges.

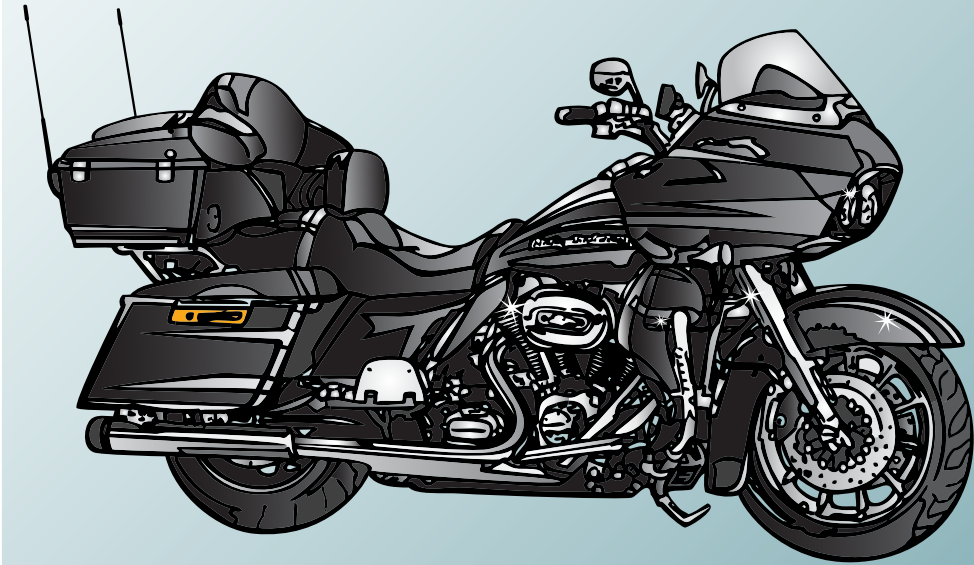
**NOTE:** These settings DO NOT change the gross vehicle weight of your motorcycle, see your owner's manual for this specification and understand these limits. These performance descriptions will help you choose a setting that will give you the ride quality, enhance steering, braking and traction at a level you desire. Legend Suspensions is not liable for damages or injuries as the result of exceeding the gross vehicle weight of the motorcycle.



FITMENT:

- 0414-0516 (STANDARD)**  
**0414-0517 (1" LOWERED):**  
2017-20 HARLEY-DAVIDSON FLH  
TOURING MODELS (49 MM)
- 0414-0494 (STANDARD)**  
**0414-0495 (1" LOWERED):**  
2014-16 HARLEY-DAVIDSON FLH  
TOURING MODELS (49 MM)

- 0414-0496 (STANDARD)**  
**0414-0497 (1" LOWERED):**  
1997-13 HARLEY-DAVIDSON FLH  
TOURING MODELS (41 MM)



OIL VOLUME CHART FOR AXEO

AXEO PART	TUBE SIZE	FITMENT	FORK TUBE LENGTH	OZ OF OIL TO ADD
0414-0496	41 MM	1997-13 FLH	STD	3.5 OZ
0414-0497	41 MM	1997-13 FLH	LWD	3.5 OZ
0414-0494	49 MM	2014-16 FLH	STD	11.5 OZ
0414-0495	49 MM	2014-16 FLH	LWR	12 OZ
0414-0516	49 MM	2017+ FLH	STD	11 OZ
0414-0517	49 MM	2017+ FLH	LWR	11.5 OZ

WARRANTY

All Legend ® Suspensions' parts are guaranteed to the original purchaser to be free of manufacturing defects and workmanship. Parts that fail to conform to these conditions will be repaired or replaced at Legend ® Suspensions' option if the parts are returned to Legend ® Suspensions by the original purchaser. Delivery of the original purchase invoice or receipt along with the part to Legend ® Suspensions is a condition precedent to Warranty coverage. Warranty coverage is limited lifetime.

In the event the original purchaser believes warranty service is required, the original purchaser must call or e-mail Legend ® Suspensions immediately to discuss the concern. Some concerns may be rectified by a telephone call and need no further course of action.

A part that is suspect of being defective must not be replaced by a Dealer or any other person without prior written authorization from Legend ® Suspensions. If it is deemed necessary for Legend ® Suspensions to make an evaluation of the part to determine whether a defect exists, a return authorization number (RA#) must be obtained from Legend ® Suspensions by the original purchaser. Properly obtaining a return authorization number from Legend ® Suspensions is a condition precedent to Warranty coverage.

The part must be packaged properly so as to not cause further damage and be returned prepaid to Legend ® Suspensions with a copy of the original invoice or receipt of purchase. If after evaluation, Legend ® Suspensions finds the part to be defective, Legend ® Suspensions will repair or replace the part, at the discretion and option of Legend ® Suspensions.

- Exclusions  
This warranty is void if:
- (1) the Legend ® Suspensions' part is repaired, modified or altered, unless such repair, modification or alteration is expressly authorized by Legend ® Suspensions in writing;
  - (2) the Legend ® Suspensions' part becomes defective in whole or in part as a result of improper installation, improper maintenance, improper use, abnormal operation, or any other misuse or mistreatment of the Legend ® Suspensions' part;
  - (3) the Legend ® Suspensions' part is installed or used in any motorcycle or other vehicle other than an Unmodified Factory OEM Motorcycle;
  - (4) the Legend ® Suspensions' part is installed or used on any motorcycle or other vehicle being used in any form of competitive riding or racing, off road riding, or stunt riding. Stunt riding shall include, but not be limited to, any form of acrobatic maneuvering of the motorcycle, wheelies, stoppies, burnouts, jumping, or operating the motorcycle at an excessive rate of speed;
  - (5) the Legend ® Suspensions' part is installed or used on any motorcycle or other vehicle being operated at a speed in excess of the speed allowed by any applicable law, regulation, or ordinance or is operated in any other manner in violation of any applicable law, regulation or ordinance;
  - (6) the serial or parts identification number of the Legend ® Suspensions' part is defaced or missing;
  - (7) the Legend ® Suspensions' part is returned with no authorization number issued from Legend ® Suspensions; or
  - (8) the original purchase invoice or receipt is not provided to Legend ® Suspensions along with the part.

- Additional Limitations
- (1) Legend ® Suspensions shall have no warranty or liability obligation to cover work shop labor charges incurred to install or remove suspension systems or individual components.
  - (2) Electrical components are limited to a one-year manufacturer's warranty from the original invoice date or installation.
  - (3) Limited lifetime warranty as used within this warranty is further defined as the lifetime of the specific product line. Any product line that has been discontinued for which replacement parts are no longer available by is not covered by this warranty.
  - (4) The customer is liable for shipping charges to and from Legend ® Suspensions for warranty repairs or replacement parts consistent with this warranty.

LEGEND ® SUSPENSIONS (INCLUDING ITS SUBSIDIARIES, AFFILIATES, OFFICERS, DIRECTORS, EMPLOYEES, AGENTS OR SHAREHOLDERS) SHALL NOT, UNDER ANY CIRCUMSTANCES, WHETHER AS A RESULT OF BREACH OF CONTRACT, BREACH OF WARRANTY, TORT, STRICT LIABILITY, THE FAILURE TO DELIVER, DELAY IN DELIVERY IN NON-CONFORMING CONDITION, OR FOR ANY OTHER BREACH OF CONTRACT OR DUTY BETWEEN LEGEND ® SUSPENSIONS AND A CUSTOMER OR OTHERWISE, BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR EXEMPLARY OR PUNITIVE DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS OR REVENUES, LOSS OF OTHER GOODS OR ASSOCIATED EQUIPMENT OR DAMAGES TO ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL OR LABOR, COST OF REPLACEMENT OR SUBSTITUTE PRODUCTS, OR LOSS OF TIME. IN THE EVENT THAT LEGEND ® SUSPENSIONS SHALL BE UNABLE TO REPAIR OR REPLACE THE PRODUCT AS REQUIRED HEREIN, THE LIABILITY OF LEGEND ® SUSPENSIONS TO YOU OR ANY OTHER PARTY SHALL NOT EXCEED THE PRICE ACTUALLY PAID BY YOU FOR THE PRODUCT, UPON THE PAYMENT OF WHICH, LEGEND ® SUSPENSIONS SHALL BE RELEASED FROM AND DISCHARGED OF ALL FURTHER OBLIGATIONS AND LIABILITY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

WARNING: Legend ® Suspensions assumes no responsibility for damage or injuries which may result from the use or installation of its products, whether or not properly installed or used. Installing a Legend ® Suspension may decrease initial ground clearance when in lowered position. The motorcycle will be lower to the ground and care should be taken to avoid bottoming out, especially over bumps or in turns. To maintain proper balanced geometry, we recommend riding in the stock height position.

Dispute Resolution  
You agree that any dispute between you and Legend ® Suspensions arising hereunder will be resolved exclusively and finally by arbitration administered by the American Arbitration Association ("AAA") and conducted under its rules, except as otherwise provided below.

The arbitration will be conducted before a single arbitrator and will be limited solely to the dispute between you and Legend ® Suspensions. The arbitration shall be held at any reasonable location in Meade County, South Dakota, or by submission of documents, by telephone, online or in person. Any decision rendered in such arbitration proceedings will be final and binding on each of the parties, and judgment may be entered thereon in any court of competent jurisdiction. Should either party bring a dispute in a forum other than AAA, the arbitrator may award the other party its reasonable costs and expenses, including attorney fees and disbursements incurred in staying or dismissing such other proceedings or in otherwise enforcing compliance with this dispute resolution provision.

YOU UNDERSTAND THAT YOU WOULD HAVE HAD A RIGHT TO LITIGATE DISPUTES THROUGH A COURT, AND THAT YOU HAVE EXPRESSLY AND KNOWINGLY WAIVED THAT RIGHT AND AGREED TO RESOLVE ANY DISPUTES THROUGH BINDING ARBITRATION.

For the purposes of this section, the term "dispute" means any dispute, controversy, or claim arising out of or relating to: (1) this Agreement, its interpretation, or the breach, termination, applicability or validity thereof, or (2) the purchase or use of any Product, Accessory, service or otherwise from Legend ® Suspensions.

For purposes of this Agreement, the term Legend ® Suspensions means Legend ® Suspensions, its subsidiaries, affiliates, directors, officers, employees, beneficiaries, agents or assigns; the term "you" means you, the original purchaser, your agents, beneficiaries, or heirs.

Governing Law  
Both you and Legend ® Suspensions consent to the application of the laws of the State of South Dakota to govern, interpret, and enforce all of your rights and Legend ® Suspensions' rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Limited Lifetime Warranty, without regard to conflict of law principles.



**DO NOT TAMPER WITH THE SCHRADER VALVE ON TOP OF CAP!**



**PROPERLY SUPPORT YOUR MOTORCYCLE PRIOR TO SUSPENSION INSTALLATION!**

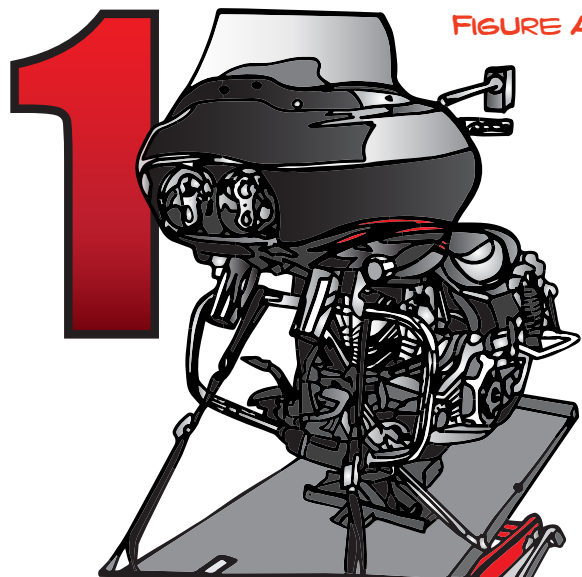


FIGURE A

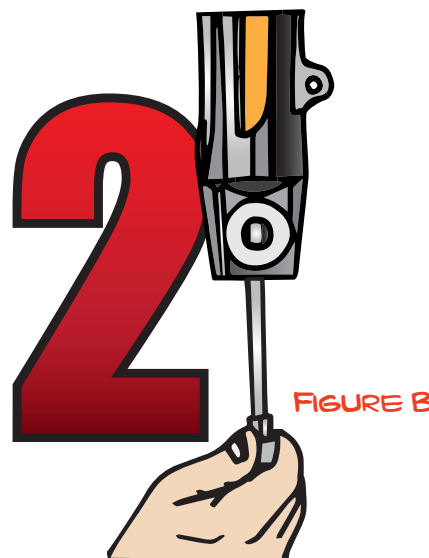


FIGURE B



FIGURE C

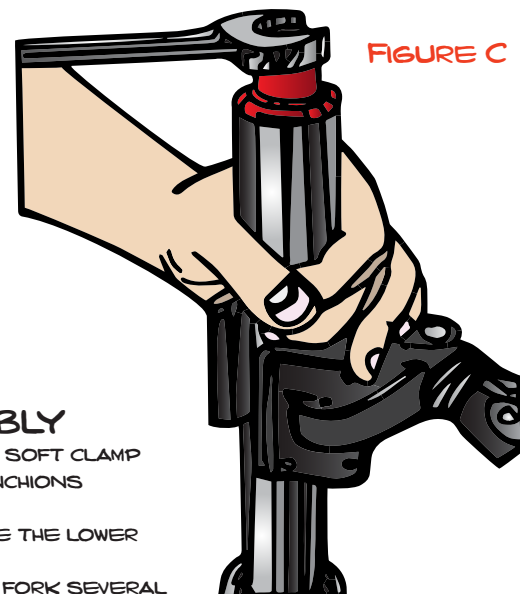


FIGURE D

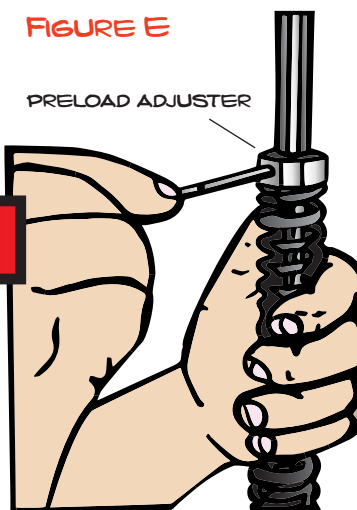


### STEP THREE: CLEAN FORKS

- IF YOU DIDN'T SPLIT YOUR FORKS CLEAN ALL OF THE USED OIL AND CONTAMINANTS FROM FORKS.
- USE A SOLVENT TANK AND LONG BRUSH TO SCRUB THE INSIDE OF YOUR FORKS. ONCE ALL OF THE OIL IS WASHED OUT, USE SUSPENSION CLEANER THAT DOESN'T LEAVE AN OILY FILM, AND WASH THE SOLVENT OUT.
- BLOW ALL PARTS DRY WITH COMPRESSED AIR.



FIGURE E



### STEP FOUR: SET PRELOAD FOR LEGEND CARTRIDGE

- REFER TO THE PRELOAD SETTING CHART (BASED ON RIDER AND GEAR WEIGHT) ON THE BACK COVER OF THIS INSTALL GUIDE.
- USE AN ALLEN WRENCH TO LOOSEN THE SET SCREW ON THE PRELOAD ADJUSTER. **FIGURE E.**
- USE THE RECOMMENDED NUMBER OF TURNS FROM THE CHART AND THREAD YOUR PRELOAD ADJUSTER TOWARDS THE SPRING. **PRELOAD ADJUSTER IS SET AT ZERO**, ONE FULL TURN IS INDICATED BY SET SCREW ALIGNING WITH "FLAT."
- IMPORTANT: LINE THE SET SCREW UP WITH THE "FLAT" THAT IS MACHINED IN THE SHAFT, AND RE-TIGHTEN THE SET SCREW WHEN COMPLETE.**



### STEP SEVEN: INSTALL FORKS

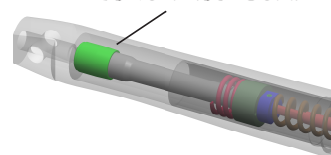
- ONCE FORKS ARE COMPLETELY ASSEMBLED RE-INSTALL THEM ONTO YOUR MOTORCYCLE. FOLLOW THE MANUFACTURERS' TORQUE SPECS FOR SAFETY.

### STEP TWO: DISASSEMBLY

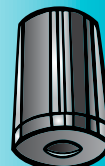
- SECURE FORKS IN A FORK VICE OR SOFT CLAMP TO ELIMINATE SCRATCHING ON STANCHIONS (UPPER TUBES).
- USE AN IMPACT WRENCH TO REMOVE THE LOWER ALLEN BOLT. **FIGURE B.**
- LET THE OIL DRAIN OUT AND PUMP FORK SEVERAL TIMES TO REMOVE ALL ORIGINAL OIL.
- WITH FORK STILL IN VICE, REMOVE TOP FORK CAP. **WARNING: BE EXTREMELY CAREFUL WHEN REMOVING THE CAP, IT IS UNDER HIGH SPRING PRESSURE AND MAY CAUSE INJURY. FIGURE C.**
- DUMP ALL STOCK COMPONENTS OUT OF FORKS. **FIGURE D.**  
**NOTE: SPLITTING OF THE LOWER SLIDER AND STANCHION TUBE IS UNNECESSARY UNLESS:**  
1. YOUR CURRENT FORK SET HAS THE OEM DAMPER CARTRIDGE IN "ONE" LEG AND YOU MUST REPLACE THAT CARTRIDGE SEAT WITH THE PROVIDED LOWER ROD SEAT FROM LEGEND.  
2. YOU WISH TO REPLACE YOUR FORK SEALS AND BUSHINGS AT THIS TIME (HIGHLY RECOMMENDED)
- IF SO, REMOVE THE SNAP RING. USE THE STANCHION AS A SLIDE HAMMER AND PULL FORK PART. CLEAN YOUR FORKS AND REPLACING YOUR SEALS AND BUSHINGS IS HIGHLY RECOMMENDED.

#### SEE STEP 2: E NOTE

#### LOWER ROD SEAT



- 0414-0494: LEGEND PROVIDES ONE LOWER ROD SEAT
- 0414-0495: LEGEND PROVIDES ONE LOWER ROD SEAT
- 0414-0496: LEGEND PROVIDES ONE LOWER ROD SEAT
- 0414-0497: LEGEND PROVIDES ONE LOWER ROD SEAT
- 0414-0516: CUSTOMER REUSES OEM LOWER ROD SEAT
- 0414-0517: CUSTOMER REUSES OEM LOWER ROD SEAT



### STEP FIVE: INSTALL LEGEND CARTRIDGES

- MAKE SURE YOUR ALIGNMENT CUP IS ALIGNED WITH UPPER TUBE (USE A FLASHLIGHT AND MAKE SURE YOU CAN SEE ALL THE WAY THROUGH THE FORK TO THE LOWER BOLT HOLE).
- MAKE SURE STOCK TOP OUT SPRINGS ARE REMOVED. THEN DROP THE PROVIDED TOP OUT SPRINGS INTO THE TOP OF TUBE AND MAKE SURE THEY ARE ALIGNED IN THE BOTTOM OF THE STANCHION. **FIGURE F.**
- WITH THE FORK FULLY COMPRESSED, LOWER THE CARTRIDGE INTO THE TUBE, MAKING SURE IT IS IN THE ALIGNMENT CUP.
- INSPECT THE COPPER WASHER FROM THE LOWER BOLT YOU REMOVED EARLIER. CLEAN WASHER AND MAKE SURE THERE ARE NO BLEMISHES.
- APPLY SMALL AMOUNT OF LOC-TITE TO THREADS OF LOWER BOLT AND INSTALL IT WITH COPPER WASHER
- HOLD CARTRIDGE AND TIGHTEN BOLT TO 15 FT. LBS FOR A 41 MM FORK AND 30 FT. LBS FOR A 49 MM FORK.

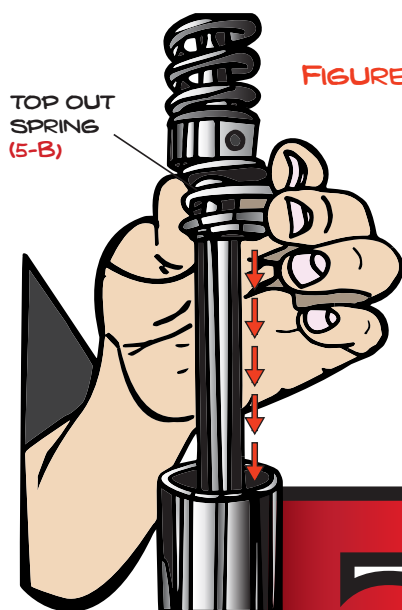


FIGURE F

TOP OUT SPRING (5-B)

#### PARTS INCLUDED:

- (2) - AXEO CARTRIDGES
- (1) - FORK OIL, ONE QUART
- (1) - ALIGNMENT CUP
- (2) - REBOUND SPRINGS

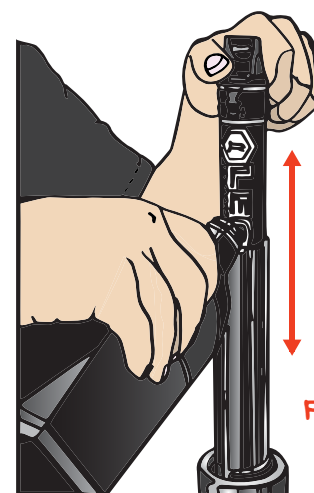


FIGURE G

### STEP SIX: ADDING OIL AND BLEEDING

- REFER TO THE OIL VOLUME CHART ON THE BACK COVER OF THIS INSTALL GUIDE FOR THE AMOUNT OF OIL TO ADD PER FORK. **IMPORTANT: THE AMOUNT OF OIL ADDED INSURES THE HYDRAULIC BUMP STOP WILL FUNCTION.**
- POUR OIL IN TOP OF TUBE, YOU WILL NEED TO PUMP THE STANCHION A FEW TIMES WHILE DOING THIS TO LET OIL DRAIN DOWN INTO TUBE. **FIGURE G.**
- ONCE RECOMMENDED AMOUNT OF OIL HAS BEEN ADDED, PUMP THE STANCHION UP AND DOWN SEVERAL TIMES TO MAKE SURE YOU HAVE THE OIL INTO THE LOWER PART OF THE SLIDER.
- AFTER BLEEDING THE FORKS, SLIDE THE STANCHION UP AND THREAD ONTO THE FORK CAP.
- TIGHTEN THE FORK CAP TO 25 FT. LBS.