



# INSTALLATION GUIDE

PARTS: 0414-0549, 0414-0589, 0414-0590

## 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.



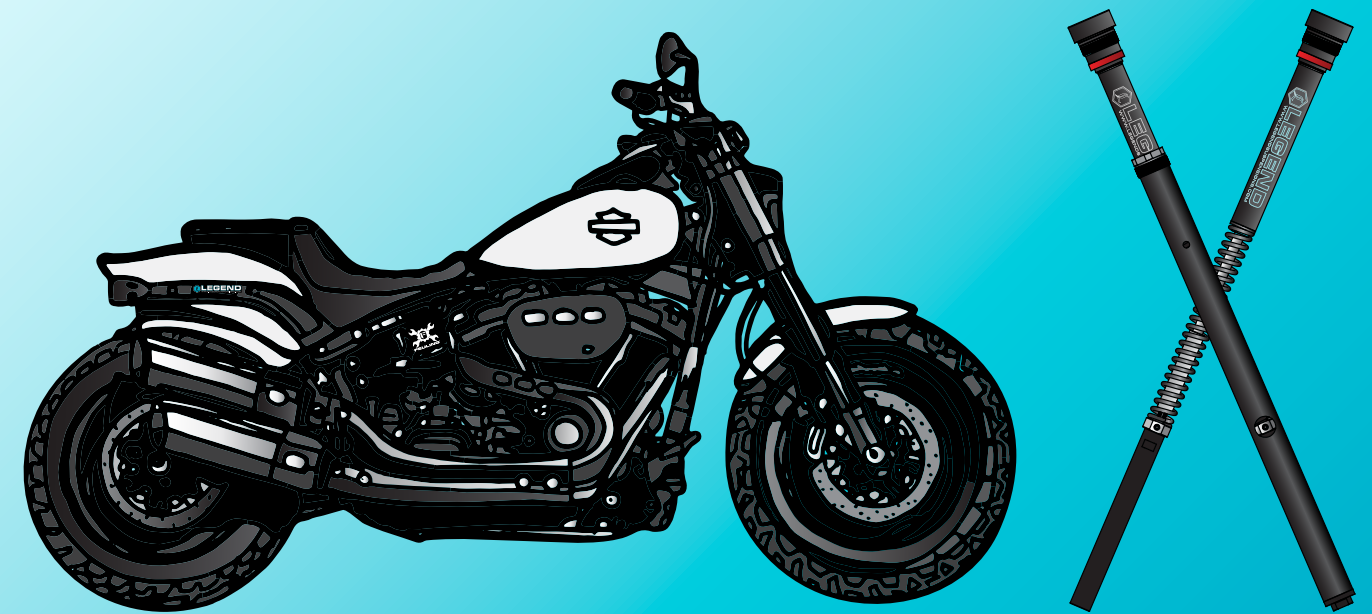
**NOTE:** LEGEND SUSPENSIONS RECOMMENDS THE USE OF THE FOLLOWING FORK OILS: SCREAMIN' EAGLE HEAVY, MAXIMA 20W V-TWIN, OR AN EQUIVALENT 20W FORK OIL

### FITMENT:

**0414-0549**  
INVERTED 2018-2022 HARLEY-DAVIDSON SOFTAIL M8 FXFB/FXFBS/FXLRS/FXLRST MODELS

**0414-0589**  
INVERTED 2018-21 HARLEY-DAVIDSON SOFTAIL M8 SPORT GLIDE FL5B MODELS

**0414-0590**  
INVERTED 2019-20 HARLEY-DAVIDSON SOFTAIL M8 FXDR MODELS



## OIL VOLUME CHART FOR AXEO43

**NOTE:** LEGEND SUSPENSIONS RECOMMENDS THE USE OF THE FOLLOWING FORK OILS: SCREAMIN' EAGLE HEAVY, MAXIMA 20W V-TWIN, OR AN EQUIVALENT 20W FORK OIL

AXEO PART	TUBE SIZE	FITMENT	LENGTH	OZ OF OIL TO ADD
0414-0549 RH HAND FORK	43 MM	2018-22 FXFB, FXFBS, FXLRS, FXLRST	STD	5.1 OZ
0414-0549 LH HAND FORK	43 MM	2018-22 FXFB, FXFBS, FXLRS, FXLRST	STD	8.5 OZ
0414-0589 RH HAND FORK	43 MM	2018-21 SPORT GLIDE FL5B	STD	4.8 OZ
0414-0589 LH HAND FORK	43 MM	2018-21 SPORT GLIDE FL5B	STD	8.2 OZ
0414-0590 RH HAND FORK	43 MM	2019-20 FXDRS	STD	6.2 OZ
0414-0590 LH HAND FORK	43 MM	2019-20 FXDRS	STD	9.6 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 alternation 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 on 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 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 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.

# AXEO43 LEFT HAND FORK:



# AXEO43 RIGHT HAND FORK:

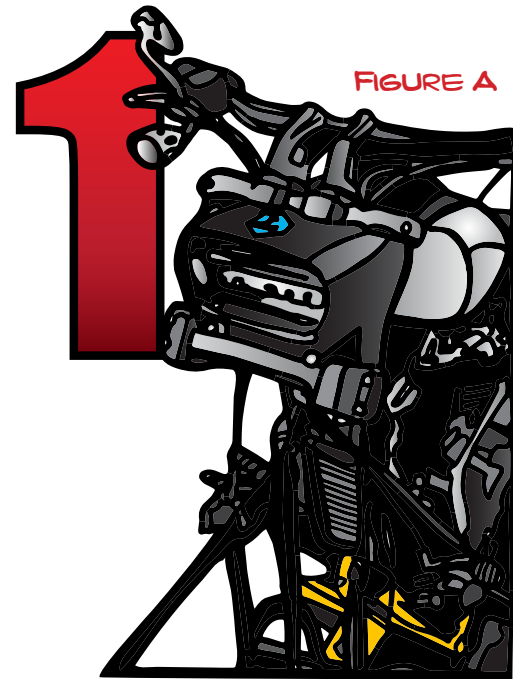


FIGURE A

# 2

**IMPORTANT: MAKE SURE THIS IS REMOVED**

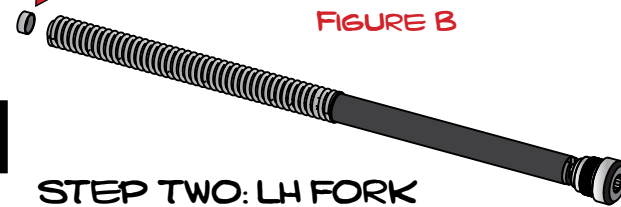


FIGURE B

## STEP TWO: LH FORK DISASSEMBLY

**WARNING**  
FORK CAP IS UNDER SPRING PRESSURE

- A. SECURE LH FORK ASSEMBLY IN TUBE VISE.
- B. REMOVE FORK CAP CAREFULLY.
- C. REMOVE THE LOWER ROD BOLT AND COPPER SEAL WASHER USING AN IMPACT GUN AND HEX DRIVER.
- D. REMOVE THE STOCK CARTRIDGE, MAIN SPRING, SPACER, RETAINER AND DUMP THE OIL.  
**IMPORTANT: MAKE SURE THE CARTRIDGE CENTERING PLATE DUMPS OUT. FIGURE B**
- E. NOTE: SPORT GLIDE ONLY - MUST SEPARATE THE TUBE AND SLIDER AND **\*REMOVE DUST SEAL\***.
- F. INSPECT BUSHINGS AND TUBE SEAL AND REPLACE AS NEEDED.

## STEP ONE: FORK REMOVAL

- A. PROPERLY SUPPORT YOUR MOTORCYCLE AND REMOVE LH FORK.
- B. CONSULT WITH AN EXPERIENCED TECHNICIAN OR SERVICE MANUAL BEFORE REMOVAL.

# 3

## STEP THREE: CLEAN FORKS

- A. USE SUSPENSION CLEANER TO REMOVE ALL USED OIL FROM TUBE AND SLIDER.

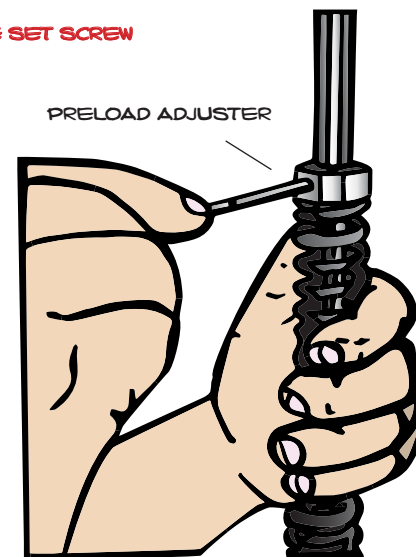
# 4

## STEP FOUR: SET PRELOAD ON MAIN SPRING (LEGEND PRELOAD IS SET TO ZERO).

- A. TO ADJUST PRELOAD, USE AN ALLEN WRENCH TO LOOSEN THE SET SCREW.
- B. WHILE CONTINUING TO HOLD THE ALLEN WRENCH IN THE SET SCREW TO KEEP THE COLLAR FROM ROTATING, GRAB THE LOWER ROD END AND ROTATE THE ROD, PER YOUR PRELOAD NEEDS. SEE CHART ON BACK FOR DETAILS.
- C. USE LOCTITE 243 (BLUE SERVICE REMOVABLE) ON SET SCREW THREADS
- D. **IMPORTANT: MAKE SURE YOU TIGHTEN THE SET SCREW ON THE ROD FLAT. FIGURE D.**

PRELOAD ADJUSTER

FIGURE D



# 4

## STEP FOUR: SET PRELOAD FOR LEGEND CARTRIDGE NOTE: LEGEND PRELOAD IS SET TO ZERO

- A. TO ADJUST PRELOAD, USE AN ALLEN WRENCH TO LOOSEN THE SET SCREW THROUGH THE LARGE ACCESS HOLE. SEE ABOVE FORK IMAGE.
- B. WHILE CONTINUING TO HOLD THE ALLEN WRENCH IN THE SET SCREW TO KEEP THE COLLAR FROM ROTATING, GRAB THE LOWER ROD END AND ROTATE THE ROD, PER YOUR PRELOAD NEEDS. SEE CHART ON BACK FOR DETAILS.
- C. USE LOCTITE 243 (BLUE SERVICE REMOVABLE) ON SET SCREW THREADS
- D. **IMPORTANT: MAKE SURE YOU TIGHTEN THE SET SCREW ON THE ROD FLAT. FIGURE D**

# 5

## STEP FIVE: REASSEMBLE LH FORK

- A. REASSEMBLE THE UPPER TUBE AND LOWER SLIDER, BUT **\*NO DUST SEAL FOR SPORT GLIDE ONLY\*** AND RETURN TO THE TUBE VISE.
- B. SLIDE THE LH AXEO CARTRIDGE INTO THE LOWER SLIDER TUBE, MAKE SURE THE RED POLYURETHANE SEAL IS ON THE FORK CAP.
- C. **IMPORTANT: MAKE CERTAIN THE LOWER ROD IS IN THE SEAT BORE BEFORE RE-INSTALLING THE LOWER ROD BOLT AND COPPER SEAL WASHER, TORQUE TO 15 LBS.**
- D. REFER TO THE OIL VOLUME CHART ON THE BACK COVER OF THIS INSTALL GUIDE FOR THE TYPE AND AMOUNT OF OIL TO INSTALL IN THE LH FORK LEG.
- E. LIFT THE UPPER TUBE AND THREAD THE FORK CAP IN AND TORQUE TO 25 FT/LBS.
- F. RE-INSTALL LH FORK ON BIKE.

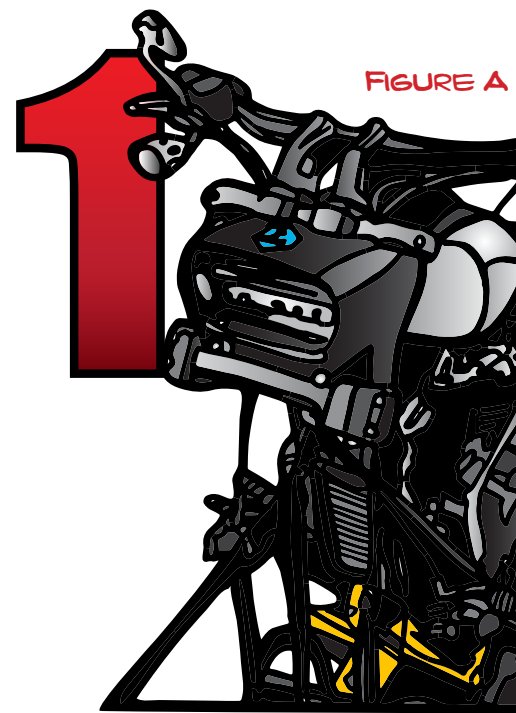


FIGURE A



FIGURE B

## STEP TWO: RH FORK DISASSEMBLY

- A. SECURE RH FORK ASSEMBLY IN TUBE VISE.
- B. REMOVE FORK CAP AND LIFT THE CONNECTION ROD SUB-ASSEMBLY UP. FIGURE B
- C. USE JIMS TOOL #5831/DK SPECIALTIES #3805 OR H-D #47852 TO REMOVE SPRING RETAINER, CASTLE BOLT.
- D. **IMPORTANT: BE VERY CAREFUL THIS CASTLE BOLT IS UNDER SPRING PRESSURE.**
- E. REMOVE THE CONNECTION ROD SUB-ASSEMBLY.
- F. REMOVE THE MAIN SPRING, SPACER, WASHER AND DUMP THE OIL. FIGURE C
- G. NOTE: SPORT GLIDE ONLY - MUST SEPARATE THE TUBE AND SLIDER AND **\*REMOVE DUST SEAL\***
- H. INSPECT BUSHINGS AND TUBE SEAL AND REPLACE AS NEEDED.

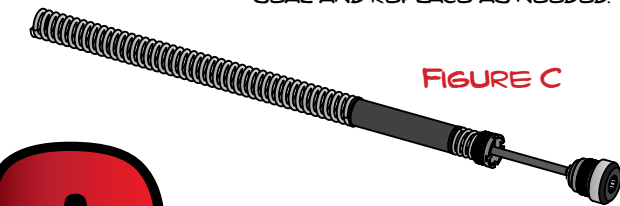


FIGURE C

# 3

## STEP THREE: CLEAN FORKS

- A. USE SUSPENSION CLEANER TO REMOVE ALL USED OIL FROM TUBE AND SLIDER.

# 5

## STEP FIVE: REASSEMBLE RH FORK

- A. NOTE: SPORT GLIDE ONLY - REASSEMBLE THE UPPER TUBE AND LOWER SLIDER, BUT **\*NO DUST SEAL\*** AND RETURN TO THE TUBE VISE.
- B. SLIDE THE RH AXEO CARTRIDGE (WITH OVER-TUBE) INTO THE LOWER SLIDER TUBE.
- C. PUT SMALL AMOUNT OF LOCTITE 243 (BLUE SERVICE REMOVABLE) ON THE 40 MM STAINLESS STEEL HEX NUT AND THREAD IN AGAINST THE OVER-TUBE END.
- D. USING A **40MM SERVICE WRENCH** VERY FIRMLY HAND TIGHTEN THE NUT AGAINST THE OVER-TUBE, CLAMPING THE CARTRIDGE DOWN IN THE SLIDER. BE SURE **NOT** TO SCAR THE END OF THE NUT OR DISTORT ITS ROUNDNESS AS THIS IS ALSO A SEAL SURFACE FOR THE RED POLYURETHANE BUMPER.
- E. REFER TO THE OIL VOLUME CHART ON THE BACK COVER OF THIS INSTALL GUIDE FOR THE TYPE AND AMOUNT OF OIL TO INSTALL IN THE RH FORK LEG.
- F. LIFT THE UPPER TUBE AND THREAD THE FORK CAP IN AND TORQUE TO 25 FT/LBS.
- G. RE-INSTALL RH FORK ON BIKE

**PARTS INCLUDED:**  
(2) - AXEO CARTRIDGES



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