



## Raked Triple Trees

106210, 106220, 106270, 106280, 106500, 106510,  
106560, 106570, 106800, 106810, 106860, 106870

### PARTS LIST

### QTY:

#1	UPPER TREE	1
#2	LOWER TREE	1
#3	NECK STEM WITH FLAT HEAD SOCKET SCREW	1
#4	HANDLEBAR DAMPER KIT	1
#5	PINCH BOLTS 1/4-20x3/4 SHCS S/S	4
#6	FORK TUBE PLUGS WITH O-RINGS	2

### INSTALLATION

1. APPLY A QUALITY THREADLOCKER SUCH AS RED LOCTITE OR EQUIVALENT TO THE THREADS OF THE NECK STEM. SCREW THE NECK STEM INTO THE UPPER TRIPLE TREE UNTIL IT BOTTOMS OUT AND IS UNABLE TO BE TIGHTENED ANY FURTHER.
2. INSURE THAT THE UPPER AND LOWER BEARING RACES AND BEARINGS ARE IN GOOD CONDITION AND THE BEARINGS ARE PACKED WITH THE PROPER GREASE.
3. INSERT THE NECK STEM INTO THE FRAME STEERING HEAD AND FIT THE LOWER TREE ONTO THE NECK STEM HOLDING IT IN PLACE WITH THE FLAT HEAD SOCKET SCREW. AT THIS TIME TIGHTEN THE FLAT HEAD JUST ENOUGH TO TAKE OUT ANY NOTICEABLE PLAY. THE TRIPLE TREE SHOULD MOVE FREELY FROM SIDE TO SIDE AT THIS STAGE OF ASSEMBLY.
4. INSTALL THE FORK TUBE PLUGS INTO THE FORK LEG ASSEMBLIES. USE ANTI-SEIZE ON THE THREADS OF THE FORK TUBE PLUGS. AT THIS TIME YOU NEED TO ADD THE PROPER AMOUNT OF FORK OIL AS RECOMMENDED BY YOUR FORK LEG MANUFACTURER (PRO-ONE LOWER LEGS REQUIRE 11 O.Z. OF FORK OIL.) REMOVE THE BRASS FILLER PLUG ON TOP OF THE FORK TUBE PLUG AND ADD THE PROPER AMOUNT OF OIL. USE

TEFLON TAPE OR A TEFLON THREAD SEALANT ON THE THREADS OF THE BRASS FILLER PLUG BEFORE INSTALLING THE PLUG. INSURE THAT THE BRASS PLUG IS NOT PROTRUDING ABOVE THE TOP OF THE FORK TUBE PLUG. NEXT SLIDE THE FORK TUBE ASSEMBLIES INTO THE TRIPLE TREES USING CARE AS TO NOT SCRATCH OR DAMAGE THE FORK TUBES WHILE PASSING THROUGH THE TRIPLE TREES. TIGHTEN THE TUBES INTO THE TOP TREE UNTIL IT BOTTOMS OUT. (THE PINCH BOLTS WILL BE TORQUED TO 12 ft.lbs.) USING BLUE LOCTITE DURING THE ADJUSTMENT PHASE OF ASSEMBLY

5. AFTER THE FRONT TIRE AND WHEEL IS PROPERLY INSTALLED, IT IS TIME TO ADJUST THE "FALL AWAY." THIS IS THE TERM USED TO DESCRIBE THE PROPER NECK BEARING TIGHTNESS OR PRELOAD. TIGHTENING OR LOOSENING THE FLAT HEAD SOCKET SCREW ON THE BOTTOM OF THE NECK STEM SETS THE PRELOAD.
6. CONSULT AN AUTHORIZED SERVICE MANUAL FOR THE FRONT FORK ADJUSTMENT PROCEDURE TO OBTAIN THE PROPER "FALL AWAY." WHEN THE FORK ADJUSTMENT IS COMPLETE, USE BLUE LOCTITE ON THE PINCH BOLTS AND RED LOCTITE ON THE FLAT HEAD SOCKET SCREW THAT SCREWS INTO THE BOTTOM OF THE NECK STEM.

**IF THE TRIPLE TREES HAVE TURN SIGNALS, THE TRIPLE TREE IS SELF-GROUNDING. THE SINGLE WIRE ON THE LEFT CONNECTS TO THE LEFT TURN SIGNAL WIRE IN YOUR WIRING LOOM AND THE SINGLE WIRE ON THE RIGHT CONNECTS TO THE RIGHT TURN SIGNAL WIRE IN YOUR WIRE LOOM.**

IF YOU NEED ANY ASSISTANCE WITH THIS PRODUCT CONTACT  
PRO-ONE TOLL-FREE AT: 800-884-4173

# RAKED TRIPLE TREE DISCLAIMER

Raked Triple Trees are usually found on custom frames that have more rake than usually found on a stock V-Twin motorcycle. These raked trees are used successfully by many of the top custom bike builders in the industry.

## **WARNING:**

Installing RAKED TRIPLE TREES reduces the front end's trail and can result in undesirable handling characteristics if steering geometry is not calculated properly. High-speed wobble and instability are caused by too little trail.

Ride height, neck rake, triple tree rake, tire size, and fork tube length all must be considered to properly calculate steering geometry to avoid undesirable handling characteristics. Because of all the variables involved, Pro-One does not recommend any particular rake of triple tree.

Raked Triple Trees are not recommended for use on a stock V-Twin motorcycle.

**The end user is responsible for properly calculating steering geometry and assumes all liability for installing raked triple trees.**

PLEASE REVIEW THE EXAMPLES OF RAKE AND TRAIL ON PAGE 2 OF THESE DOCUMENT.

IF YOU HAVE ANY QUESTIONS REGARDING INSTALLATION OF THIS PRODUCT, PLEASE CONTACT US AT: **800-884-4173**.

# EXAMPLES OF RAKE & TRAIL

