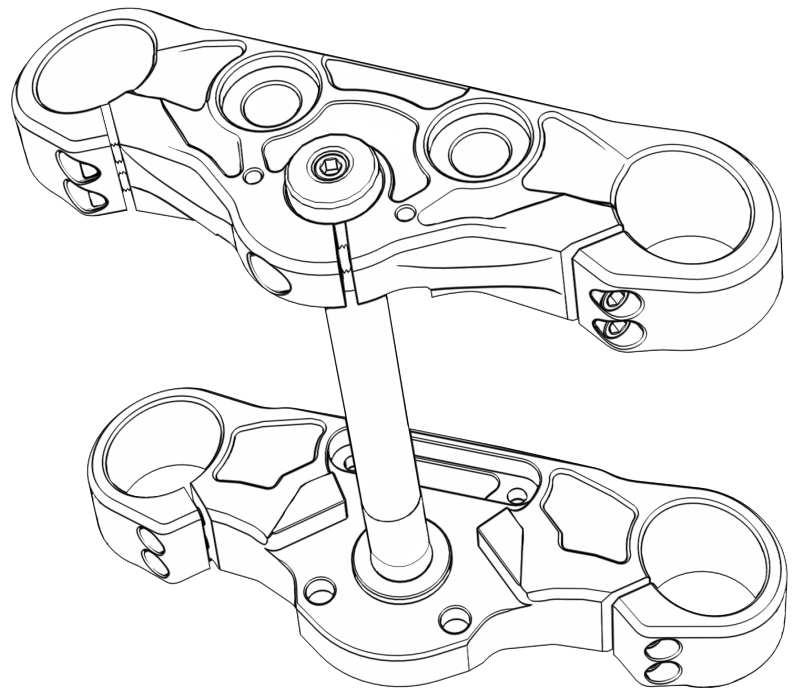


AXIS SOFTTAIL TRIPLE TREES

Installation Guide

AXIS SOFTTAIL TRIPLE TREES FITMENT:
2018 and Up — Softail Lowrider S
2022 and Up — Softail Lowrider ST





KRAUS Motor Company designs, engineers, tests, and manufactures performance systems for Harley-Davidson™ motorcycles designed to deliver improved road feel in real world punishing riding conditions. KRAUS Softail Packages come complete with all necessary stock hardware and parts to bolt a KRAUS Axis Softail Triple Trees package up to your bike.

These instructions are meant to be an overview, a guide for the experienced technician. If you do not have prior experience or training installing motorcycle suspension componentry, we strongly recommend that you consider hiring a qualified, experienced technician to install this KRAUS Performance package for you.

ABOUT FINISHES:

Like most finishes, anodizing is delicate and can be scratched. Extra care should be taken during installation and cleaning of all of our parts. Although we use a high-grade type 2 anodizing that has a UV resistance, anodizing is an organic process/substance and can fade with excessive sun exposure or be stained with chemicals and cleaners.

PROJECT DETAILS:

Time required: One full day for a Sr. Tech.
Existing Componentry and OEM Fork Set
Removal: 1.5 hours
KRAUS Performance Package install: 2.5 hours
Validation and Road Test: 1 hour

TOOLS REQUIRED:

- Torque wrench
- Allen Key Set: T-handle/Ball and regular SAE & Metric
- Socket Set: SAE & Metric
- 2 Non-marring Wedges
- Bearing Press
- Loctite® Threadlocker

DISCLAIMERS:

- Axis Softail Triple Trees instructions will begin from the point where the front end of the bike is completely disassembled. Front wheel, forks, and trees **MUST** be removed.

REMOVE YOUR OEM PARTS:

- Fairing, if equipped
- Gauges
- Front Forks
- Triple Tree... AND any associated bodywork or accessories

REMEMBER:

- Take your time removing all of the controls and bodywork. We recommend covering your tank.

NOTE:

- We strongly recommend replacing your neck bearings with new bearings.

INSTALLATION OF TRIPLE TREES:

1. Install bars and risers onto top triple tree. **(See fig. 1)**
2. Clean/inspect races, bearings & dust shields then grease your bike's neck bearings for install.
3. Install/slide the lower neck bearing dust shield followed by the lower neck bearing onto stem. Press them carefully onto the stem attached to the lower triple tree.
4. Press the lower bearing down the stem towards the dust shield until firmly seated at the stem's base. The bearing should spin freely.
5. Apply the specified and appropriate grease to the upper and lower neck bearing races.
6. Carefully slide bottom triple tree and stem up through frame neck.
7. Carefully place the top neck bearing onto the stem.
8. Gently press the upper bearing down the stem towards the fork neck until firmly seated on the top bearing race. The bearing should spin freely. Place top dust shield over the top neck bearing.
9. Install top triple tree onto stem.
10. Install yoke bushing onto top triple tree with 3/8" - 24x1.5" screw. **(See Fig. 2)**
11. Review following instructions in order to set bearing preload correctly.

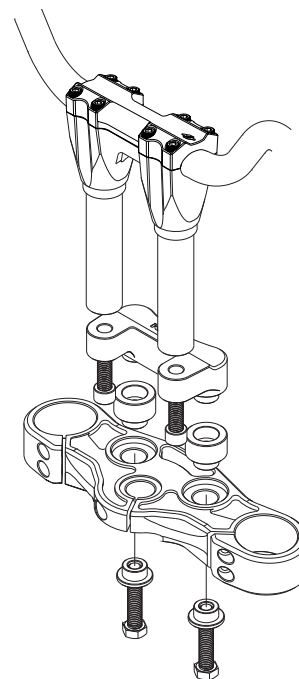


Fig. 1

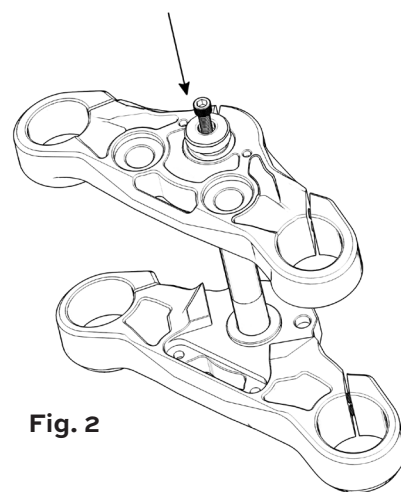
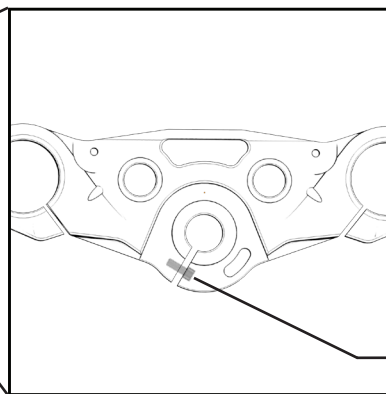
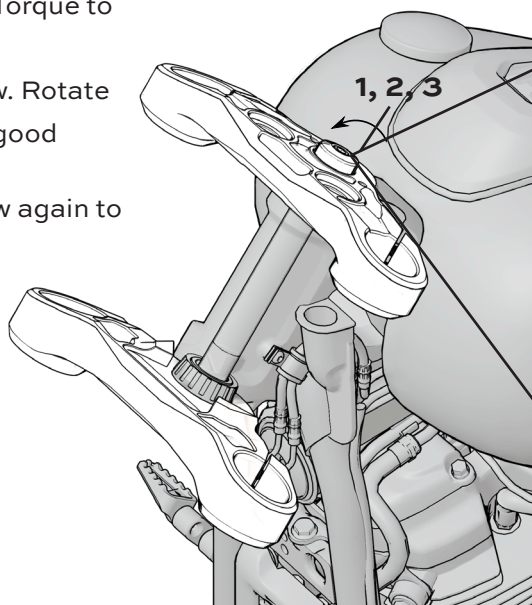


Fig. 2

1. Install stem screw through yoke nut bushing. Torque to 160 in-lbs.
2. Loosen stem screw. Rotate trees 45°. Ensure good bearing feel.
3. Tighten stem screw again to 62 in-lbs.



4. Tighten fork stem pinch screw to 20 ft.

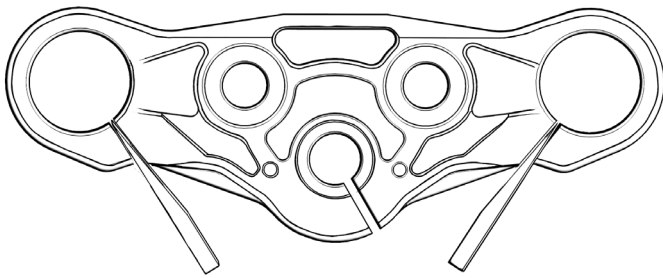


Fig. 3

TORQUE SPECS:

- Bottom tree pinch screws: 12 ft-lbs.
- Top tree pinch screws: 20 ft-lbs.

INSTALLATION OF FORK LEGS:

IMPORTANT! Not using shims can potentially cause damage or scoring to forks.

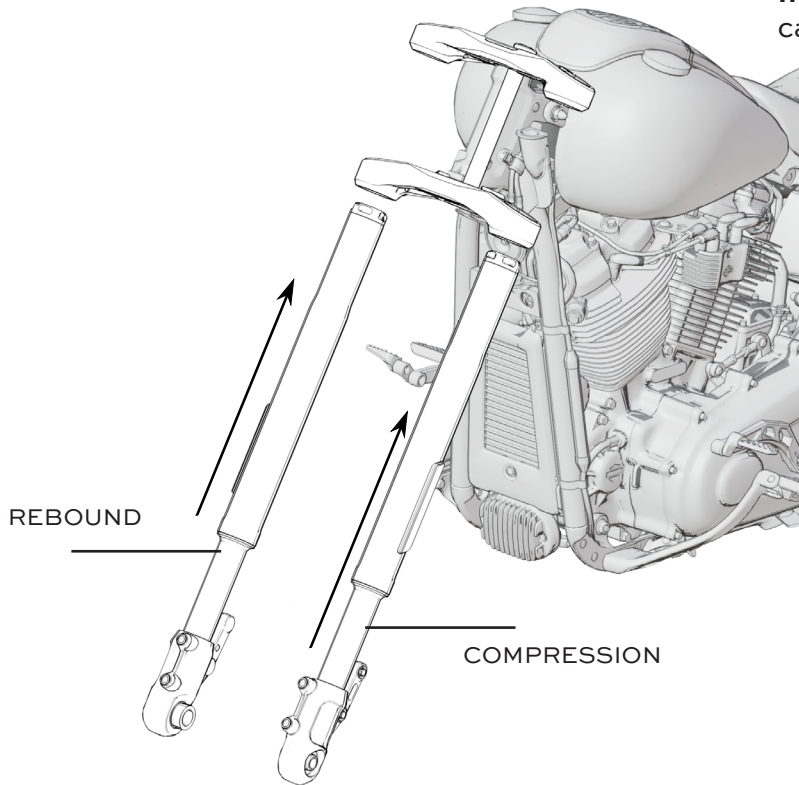


Fig. 4

1. Before installing forks into either KRAUS tree, use spreader/shims to open the bore of each tree. **(See Fig. 3)**
2. Install each fork leg into trees. **(See Fig. 4)** Ensure pinch bolts are loose. Starting with one side of the triple tree using small flat blade screwdrivers or shims, expand both top and bottom fork clamp pinch bolts slightly. This makes sliding the fork into the triple trees easier, while avoiding damaging the fork legs. Repeat process with opposite side.
3. Make sure right and left forks are in their proper position. **Riders right side fork is REBOUND, left side fork is COMPRESSION.**
4. Slide each fork leg upwards into triple trees clamps: avoid scratching the fork tubes. Ensure top triple tree does not lift off the dust shield.
5. Adjust the fork tube height in the triple trees so that just the fork cap is protruding above the top triple tree. Push down on top triple tree to make sure the top triple tree has positive contact with the top neck bearing dust shield. Set both forks equal height in triple trees, confirm alignment by sliding the axle into the slider bottoms.
6. Make sure axial alignment is correct for proper fork and upper tube clearance.
7. Torque bottom Tree pinch screws to **12 ft-lbs.**
8. Torque top Tree pinch screws to **20 ft-lbs.**

FINAL ASSEMBLY/PROCEDURES:

1. When installing your brake line, confirm brake lines are proper length and not stressed or stretched whether the front end is compressed or extended.
2. Once the front end is installed and tightened up to specifications, you are ready to reinstall all of the components that you removed including any associated bodywork or accessories. We recommend that you refer to your OEM manual for procedure, step by step run through, required tools and specifications.
3. After all pieces and parts are properly installed, go for a slow, careful test ride. Afterwards, double check all pieces, parts and systems.

TORQUE SPECS:

- Top tree and clamp nut screws: 20ft-lbs.



4520 S. Commerce Drive
St. George, UT 84790
krausmotorco.com

For further information contact us at:
info@krausmotorco.com