

WOLF ONE PRO KIT

(23+ CVO)

INSTALLATION GUIDE

DISCLAIMER: Kraus Motor Co. recommends that you defer to a certified mechanic or technician on any installation when possible. Refer to your OEM service manual for procedure, step-by-step procedures, required tools and specifications to make sure all pieces and parts are properly installed. Kraus Motor Co. is not responsible for improper installation of any OEM or Kraus component/kit. After completing installation, go for a slow, careful test ride. Afterwards, double-check all pieces, parts and systems. Improper installation may result in severe injury or death.

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PREPARING FOR INSTALLATION

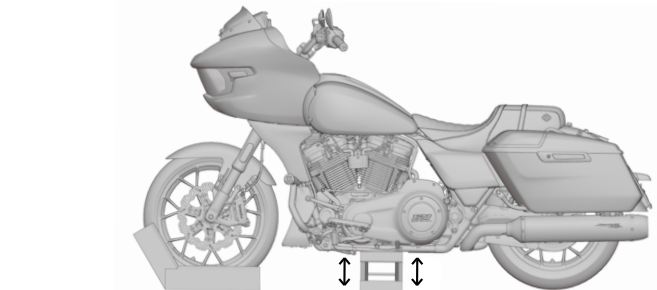
Refer to the OEM Factory Service Manual

TECH TIP: Chocking front wheel and supporting chassis with center jack while installing is necessary, otherwise prepare to remove complete front end assembly.

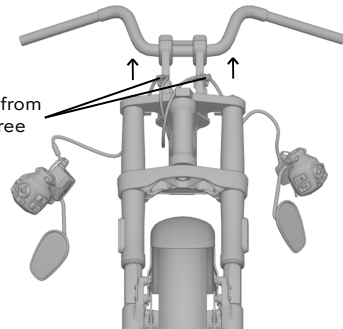
- Remove Seat
- Disconnect battery negative
- Cover/Protect Fuel Tank
- Remove nacelle and disconnect ground connector on the upper tree
- Disconnect wiring for hand controls
- Remove Clutch Line and Brake Master Cylinder from handlebar and set aside. **DO NOT DISCONNECT HYDRAULIC LINES UNLESS YOU ARE REPLACING THEM**
- Inspect and verify no other cables or wires need to be disconnected or obstruct the removal of the handlebars and upper triple tree.
- Remove upper triple tree and handlebars as one assembly.

Not chocking front wheel & supporting chassis can create a risk of front end rolling out during installation

TECH TIP: Center jack can raise/lower to help removal of tree. When center jack is supporting chassis correctly, it will ease removal and installation of top tree.



NOTE: Remove lines from P-Clamp before top tree removal

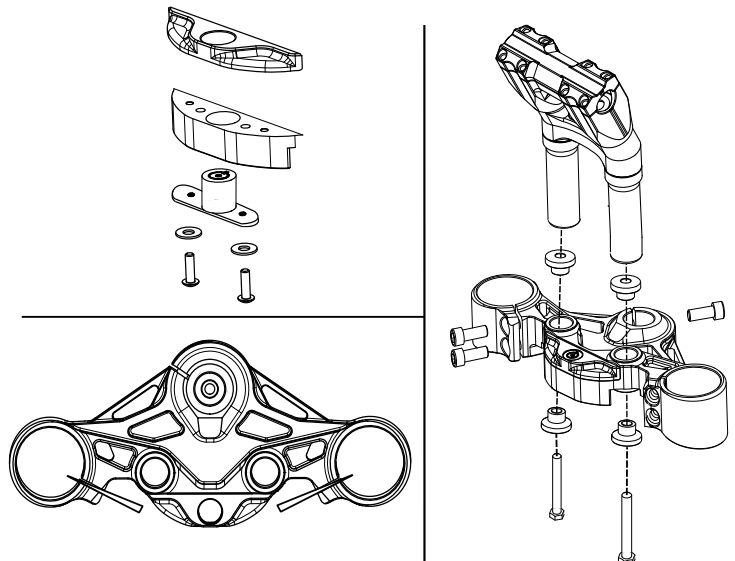


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BEGIN INSTALLATION

TECH TIP: Wolf One lock cover/lock should be installed or check for tightness at this time. The provided key is different from your original HD key. **DO NOT LOSE.**

- Apply Blue Loctite 243 to the riser leg bolts (1/2-13 x 3)
- Install Solid Riser Bushings into Wolf One Top Tree and assemble the risers on the new top tree. Torque riser leg bolts **55ft-lbs**
- Loosen but **DO NOT REMOVE** the pinch bolt on the back of the Wolf One Top Clamp.
- Remove the four pinch bolts on the clamping area of the top tree and insert a plastic wedge into the pinch gaps of the tree to ease assembly onto forks.



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- Slide Wolf One Top Tree and Riser assembly on the forks of the bike.

- Install CVO Yoke Nut Bushing and reuse fork stem screw.

- Lower motorcycle until forks begin to compress.

- Tighten fork stem screw and begin torque sequence.

Torque to 18ft-lbs (24N-m)

Loosen 180 degrees

Tighten to 8-9 ft-lbs (11.5N-m)

- Verify top clamp is evenly positioned on both forks

- Install stem pinch bolt into upper triple tree. Torque to **20 ft-lbs (27N-m)**

- Tighten fork clamp pinch screws. **Torque to 20 ft-lbs (27N-m)**

- Begin to install the wiring through the handlebars.

- Install handlebars onto midsection of risers.

- Route wiring through the midsection.

- Install top clamp and torque bolts to **6 ft-lbs.**

Reference Image (1) for torque pattern

At this point we recommend using wire loom or clean up of any exposed wires.

- Begin to connect and jumper wire front the handlebar to the motorcycle.

- Zip-tie excess wiring to the exsisting OEM harness.

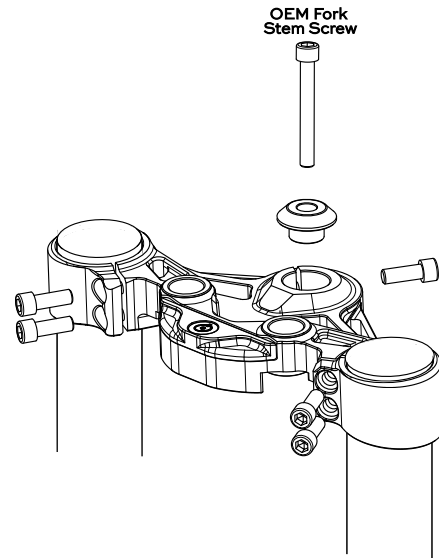
Temporarily connect battery negative and test all the handlebar components before re-installing all other OEM components.

Refer to the OEM Service Manual

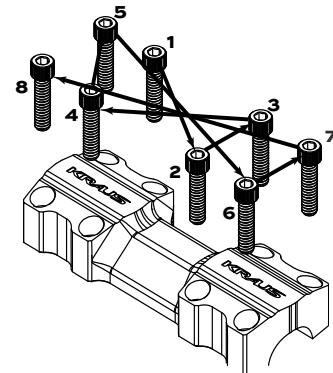
- Install Fuel Tank and connect battery negative cable.

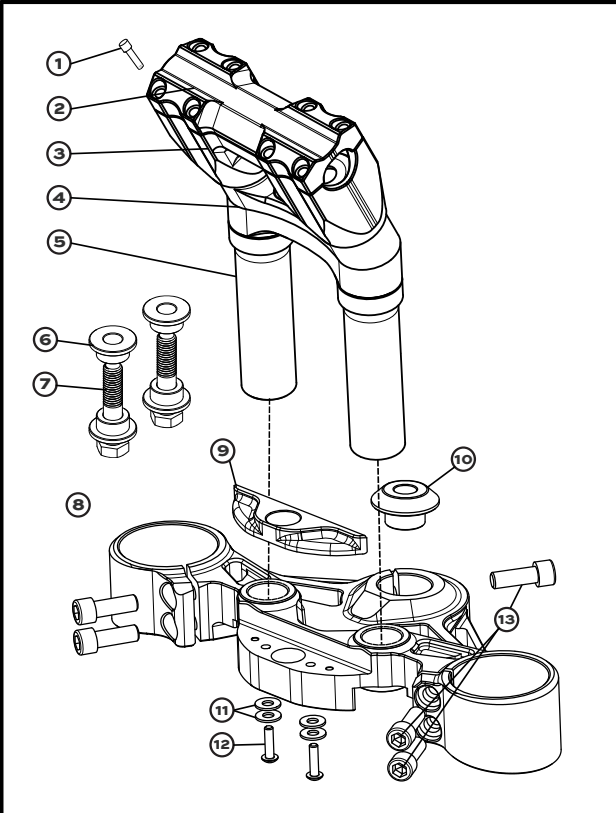
- Install Seat

Installation is now complete!



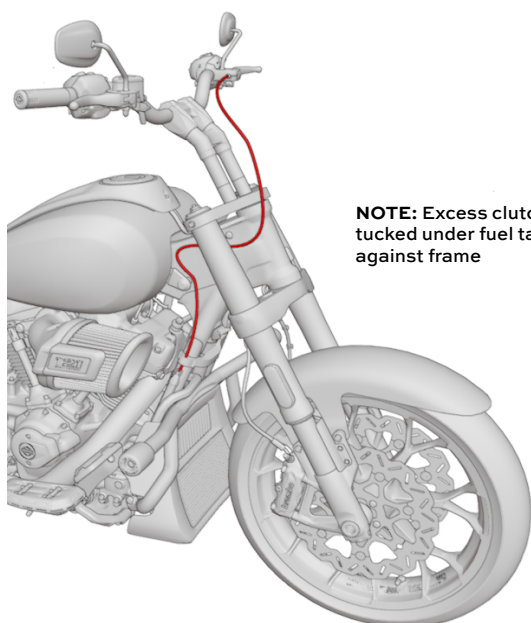
TIGHTENING PATTERN



	①	1/4"-20 x 1" L 3/16" Hex Drive 18-8 Plain Stainless Steel Socket Head Cap Screw
	②	Isolated Riser Top Clamp 1" (Black or Machine)
	③	Isolated Riser Midsection 1" (Black or Machine)
	④	Isolated Riser KICKBACK Brace (Black or Machine)
	⑤	Isolated Riser Leg (Black or Machine)
	⑥	ST Solid Mount Bushing (Black or Machine)
	⑦	1/2"-13 x 3" SAE J429 Grade 5 Zinc Finish Steel Tap Bolt
	⑧	CVO Wolf One Top Tree (Black or Machine)
	⑨	WOLF ONE Lock Cover (Black or Machine)
	⑩	CVO Yoke Nut Bushing (Black or Machine)
	⑪	3/16" x 0.442" OD Aluminum Large OD General Purpose Flat Washer
	⑫	10-24 x 3/4" 6-Lobe Drive Pan Head Grade 18-8 Stainless Steel Screw
	⑬	3/8"-16 x 1" L 5/16" Hex Drive 18-8 Plain Stainless Steel Socket Head Cap Screw

Troubleshooting Tips

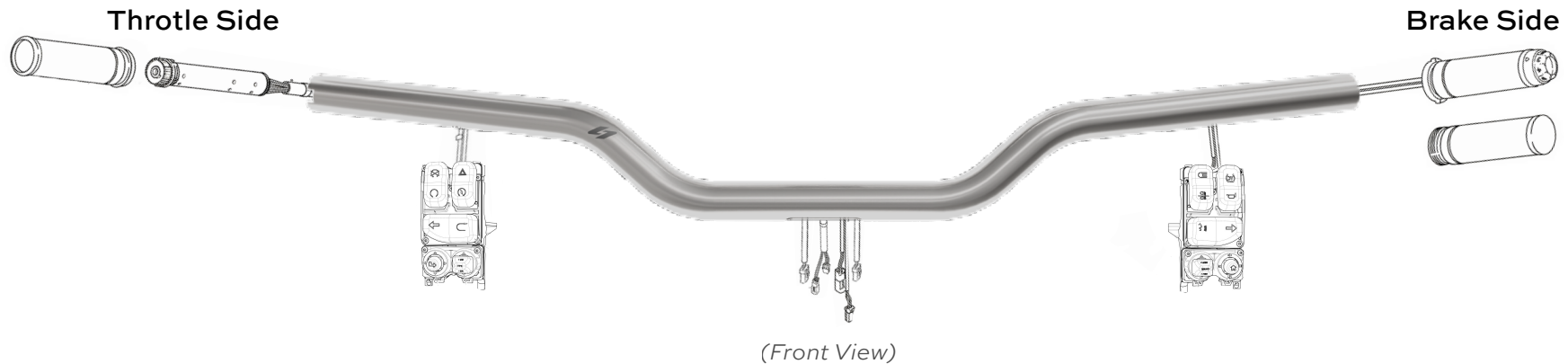
- Check for operation of the clutch before riding. Clutch adjustment may be necessary.
- If you have any excess from the clutch cable, it may need to be re-routed or tucked closed to frame.
- Verify throttle play. The right hand control can be adjusted along the handlebar to improve the snap-back.
- Any issues or concerns regarding the handlebar may be resolved on the **KR Low Bar Diagram**.
- If you are experiencing front end wobble, revisit the neck bearing torque sequence. Loosen the fork clamp bolts, add 1 ft-lbs of force at a time, check for smooth side to side movement of trees, tighten fork clamp bolts and verify on a test ride if wobble is still present.
If neck bearing tension is above 13 ft-lbs, other factors are likely contributing to the wobble.



NOTE: Excess clutch cable can be tucked under fuel tank while pressed against frame

KR LOW BAR PRODUCT GUIDE

Throttle By Wire (2023 & under Touring / 2024 and under Sofail)



2025+ Sofail / 2024+ HD Touring / 2023+ CVO

