



## VTTEV Tesla Model 3/Y Range Extending / Performance Ultimate Lightweight Front Brake Kit install guide



**Thank you for your purchase of the VTTEV Tesla M/Y Ultimate Front Brake kit! First thing to do when you open your box is to make sure all parts are in their respective bags, and nothing has been left out or lost during shipping. Here is a breakdown of what you should have.**

- Two hats and rotors
- Two calipers of color choice
  - Two brackets
  - Two lines
- Two adapters 1/8" NPT to -3 straight
- Two rotor screws, M6x15 counter sunk
  - Four M10x30 flange bolts
  - Four m12x35 flange bolts
  - One set of Pads of choice



Once all parts are accounted for you can proceed with the Brake Installation. We suggest this only be done by a qualified technician. **THESE ARE YOUR BRAKES, IF YOU HAVE ANY DOUBTS DO NOT INSTALL THIS KIT AND LET A PROFESSIONAL HANDLE THE INSTALL!** If something was missing from your kit, please contact us immediately so we can remedy this.

**READ THE ENTIRE GUIDE BEFORE BEGINNING INSTALLATION!**



**ANY QUESTIONS, OR FITMENT PROBLEMS, PLEASE EMAIL [SALES@VARGASTURBO.COM](mailto:SALES@VARGASTURBO.COM) BEFORE TRYING TO FORCE OR MODIFY ANYTHING. THIS UPGRADE IS PLUG AND PLAY IF THESE INSTRUCTIONS ARE FOLLOWED, ANY ISSUES NEED TO BE ADDRESSED TO AVOID PROBLEMS**

# INSTALL STEPS

1. Install the brake line adapters into the new calipers using sealant. These are taper pipe threads, and seal on the thread. They will only tighten a couple turns, before jamming. This is NORMAL. Once hand tight, use a ¼” ratchet and 11mm socket to tighten down. Proper engagement will leave about 4mm of threads showing  
Loosely fit both lines on the calipers
2. Install the brake pads into the calipers, and make sure they can slide over the rotors
3. Raise vehicle safely, use jack stands or a lift.
4. Remove both front wheels
5. Work on one side at a time.
6. Remove the two bolts holding the caliper to the spindle. Lower the caliper with the line still attached. We do not want to break the line until we need to.
7. Remove the rotor set screw
8. Remove the rotor
9. Install the new rotor (TAKE NOTE OF ROTOR ROTATION), and reinstall the set screw. PLEASE NOTE! THE SET SCREW ALONE IS NOT ENOUGH TO FULLY SEAT THE ROTOR, IT VERY WELL MAY BE OUT OF ROUND UNTIL YOU USE THE LUG NUTS TO TIGHTEN IT DOWN. THIS IS NORMAL!
10. Install the caliper bracket onto the caliper using two of the M10 flange bolts. Take note you must tighten them down evenly to keep the bracket from binding up on the caliper. They are very tight fit.
11. Install the new caliper/bracket onto the vehicle, and mount using two of the M12 flange bolts
12. Remove the stock brake line from its center mount by removing the 10mm bolt
13. Now remove the brake line from the hardline, by removing the clip using a pry tool, leave it attached to the caliper. As quickly as you can attach the new line to the hard line to lose as little fluid as possible.
14. Reattach the clip that holds the line in place in the groove of the new fitting. Arrange the line as it should be with the grommet in line with its mounting position in the center, tighten both ends of the line. Then install, and tighten the provided clamp to secure the middle of the line
15. This side is now done, repeat for the opposite side.
16. Now we move on to bleeding/Flushing. If you are flushing and installing new fluid that is a sperate job and this does not cover that process. As far as bleeding you have more options than most. You can choose to use the Tesla bleeding function, please read up on that, or watch one of many you tube videos. You can also use a pressure bleeder and bleed the brakes manually. Whichever way you choose, you MUST bleed the brakes properly
17. Now that the brakes are bled. You MUST FOLLOW proper bedding procedure for the pads or your braking power will be severely limited, and double check you have no leaks, or issues, and enjoy your new kit
18. You have now installed the VTTEV Tesla 3/Y Ultimate front brake kit. Take it slow on the initial drive, always check to make sure you have adequate braking before driving.

## **TQ SPECS:**

**Provided M12 bolts – 70 FT/LBS**

**Provided M10 bolts – 55FT/LBS**





















































