



## Installing Stage II Kit KTM 250cc-450cc SX/F/XCF 4-Stroke (2016-17)

Thank you for choosing 2Tall Racing. We have spent countless hours of R&D and testing to ensure you receive the highest quality product on the market today.

All 2Tall Racing llc products are developed using the most current technology available for design and manufacturing.

All 2Tall Racing Parts are made and packaged in South Florida, USA. We use only the highest quality American materials for function and durability.

2Tall Racing llc is the first to bring you complete bolt on Space Kits specifically engineered to raise the height of your motorcycle for taller riders.

2Tall Racing; Taking motocross to new heights.

**INSTRUCTIONAL VIDEO can be seen on [www.2tallracing.com](http://www.2tallracing.com).**

**Patent Pending.**

Please read all instructions thoroughly before installation. Failure to follow all installation instructions will void any warranty implied or otherwise.

2Tall Racing llc is not responsible for problems/Injuries due to improper installation and/or improper use.

we recommend wearing safety glasses and mechanics gloves.

You must know how to remove and reinstall the tank, subframe, air boot; exhaust, radiators and handlebar clamps in order to install this 2Tall Racing product otherwise have it installed by a professional mechanic. Keep all stock parts from your existing bike as some components may be necessary to install your new 2Tall Racing Space Kit depending on the application.

This product is designed for closed course use only unless otherwise stated.

**For information on replacement parts, model parts, etc; please email us at 2Tall Racing LLC using the email [jan@2tallracing.com](mailto:jan@2tallracing.com)**

**IMPORTANT: The chain length should never be shorter than the standard KTM setting. Preferably, position the wheel further back from the standard position. This will avoid the tire from rubbing the rear guard plastics and preventing damage to your plastics.**

Parts Supplied: 250-450 SX-F Stage II Space Kit

- 1) 2x 2Tall Handlebar Riser Clamps plus 2x 5mm Spacer (2x M10 x 60mm socket bolt)
- 2) 2x 2Tall Shroud Mounts plus 2x Shroud Rubber elastics
- 3) 1x 2Tall Rubber Tank riser
- 4) 1x 2Tall Tank Dowel
- 5) 1x 2Tall Airboot Extender
- 6) 1x 2Tall Muffler Bracket
- 7) 1x 2Tall Mudflap plus Mudflap bracket (3x screws and nuts for bracket)
- 8) 2x 2Tall Lower Subframe bracket
- 9) 2x 2Tall Upper Subframe bracket
- 10) 2x 2Tall Tank Support Brackets
- 11) 1x Permatex 3oz Silicone sealant
- 12) 1x M6 x 55mm Torx Hex Bolt (tank)
- 13) 4x Specialty M8 x 16mm Bolt (subframe)
- 14) 2x M6 x 30mm Torx Hex Bolt (muffler)
- 15) 2x M6 x 12 mm Torx Hex Bolt
- 16) 4x Replacement Cable Ties

Tools Required:

- |                           |                   |
|---------------------------|-------------------|
| 1) 8mm Socket Wrench      | 8) Pliers/Cutters |
| 2) 10mm Socket Wrench     | 9) Loctite        |
| 3) 13mm Socket Wrench     | 10) 8mm Spanner   |
| 4) CRX Torx 45 Hex Key    |                   |
| 5) Cr-v6 Allen Key        |                   |
| 6) Flat Head Screw Driver |                   |
| 7) Spring Puller          |                   |

**NOTE: Make sure engine is completely cool and that the motorcycle has been thoroughly clean and dried prior to installation. Be sure the vehicle is on a stand in a stable vertical position where at least rear wheel is off the ground (not triangle stand)**

### **2Tall Installation:**

#### **Section 1. Installing 2Tall Racing Handlebar Clamps: (Picture on page 4)**

- Remove Bar Pad. Remove standard mounts from triple clamp. Keep standard riser mount for later use.
- Position 2Tall Racing Handlebar risers and then place the standard handle bar riser above, bolt securely using 2x M10 x 60mm socket bolt provided and Loctite.
- Position handlebar to rider preference. Install top clamps using the four stock bolts and tighten evenly.



#### **Section 2. Installing 2Tall Racing Kit:**

- Remove seat, air filter, tank, muffler and subframe; Keep bolts for later use. **(Note: Some cable ties need to be cut to loosen the cables as the bike is being lifted, It may seem there is not enough cable length but with a little play and adjusting, there is enough length. Cable ties are provided to secure cables after installation of subframe)**
- Remove rubber air boot from the subframe. **(To Install Air boot extender to stock air boot, Go to ‘Section 3. Installing 2Tall Racing Airboot Extender to standard KTM air boot.’ Do this Section before continuing as the silicone provided needs 24 hours cure time)**
- **Sub-frame Brackets:** Begin with installing the Right (pipe side) Upper Bracket first. Remove top shock bolt and allow rear wheel to rest on ground. Attach bracket to frame using one of the Specialty M8 x 16mm bolts with Loctite. Bracket should be positioned for the shock bolt to be inserted through the lower through hole of the bracket. Lift shock into position; fasten shock using standard shock bolt and Loctite.
- Now install Left Upper Bracket with provided Specialty M8 x 16mm bolt with Loctite. Position bracket in line with the Right Upper Subframe Bracket.
- Apply both lower subframe brackets to frame using Stock KTM Torx subframe bolts with Loctite **(The bolts are positioned in a manner so that if you were to take the subframe off, you would only have to loosen the standard KTM subframe bolts. This means leaving the lower brackets attached to the subframe).** Make sure the Left and Right lower bracket is on the correct side.
- **Airboot:** Once 2Tall Racing airboot extender has been sealed to the standard KTM airboot and left to cure for 24 hours, attach the whole airboot back into the subframe. When attached, position the top of the subframe in line with the inserts of the upper subframe brackets. Slide the legs of subframe into the grooves of the lower subframe brackets. Fasten the Upper Subframe brackets first using the standard KTM subframe bolts with Loctite. Attach airboot to Injector/Carburetor before fastening the Lower Subframe Brackets using the Specialty M8 x 16mm bolts provided with Loctite. **(NOTE: Make sure Airboot is positioned correctly and do not forget to tighten hose clamp. Also reinstall both Engine Breather Hose and Air Temperature Sensor. If you have problems with getting the subframe to line up with the brackets, try loosen all the bolts fastening the brackets to the frame so that the brackets and subframe adjust itself into position).**
- **Pipe:** First install 2Tall Racing pipe bracket to the uninstalled muffler using the M6 x 30mm Torx bolts provided. Once the bracket is securely installed to the muffler, slide the muffler into the header pipe. Use small washers from stock bolt on the remaining two M6 x 30mm Torx bolts provided. Insert the right bolt first (bolt closer to engine) halfway before inserting the left bolt (bolt further from engine), then fasten both bolts securely. Reinstall the Stock Exhaust Spring between muffler and header pipe.

- **Rubber Tank Riser:** With the tank still removed, make sure to also remove the stock rubber attachment located between the frame and the tank. First insert the middle circle opening of the 2Tall Rubber Tank Riser over the frame thread fixture. Apply the Tank Spacer into the top of the circle opening. Push down firmly until the spacer comes into contact with frame fixture.
- **Tank supports:** Install the two tank supports shown in the **picture on page 4**.
- **Shrouds:** Remove radiator protectors. Then remove the two bolts fastening the RIGHT radiator to the frame. Pull the lower end of the shroud and attach the 2Tall Shroud Mounts to the lower fixture with the inside of the hook shape facing the opposite radiator. Carry out the same process on the LEFT radiator. Remember to reinstall both radiator protectors.
- Now attach both Shroud Rubber Elastics to shroud of motorcycle. Make sure you remove the washers in the shroud before inserting the elastics. Begin with the Right shroud. Insert Shroud elastic through the rear of the opening in the shroud. Carry out the same process on the LEFT shroud.
- **Tank:** The tank can now be installed. Position tank into the correct place so that the tank spacer lines up. Using the stock rubber spacer and M6 x 55mm bolt provided, fasten tank bolt to the frame. Pull the Shroud elastics over the hook of the Shroud mounts. Now install provided tank guard elastics where the tank comes into contact with the frame. The tank should now sit securely in place with no play.
- **Cables:** Test the throttle cable and front brake cable by turning the handle bar both ways. If the front brake cable is tight, loosen the bolt fastening the cable to the reservoir and adjust cable so that it is facing down. Fasten bolt when in the correct position. If throttle cable is also tight, loosen throttle handle and adjust until cable becomes loose.
- **Check:** After tank is securely fastened, inspect the complete bike and kit. Make sure all bolts have been fastened securely. Loctite must be used on all subframe, shock and handlebar clamp bolts. Finally attach seat. Secure seat with standard bolt.

### 3. Installing the 2Tall Racing Air boot Extender to Standard KTM Airboot:

- Remove standard air boot from subframe. Make sure to clean air boot thoroughly all over.
- When clean, attach the 2Tall Racing air boot Extender to the Standard Air boot using the same method as attaching the standard air boot to the subframe.
- When attached, lay the air boot on a flat surface with the 2Tall Racing Air boot Extender facing down.
- Take the Permatex Silicone Sealant (Please follow instructions for the silicone sealant and allow sufficient time to cure before starting the engine) and attach nozzle. Cut the nozzle tip down to the third step and then insert nozzle tip between the exterior opening of the Air boot and 2Tall Racing Air boot Extender. Carefully squeeze the tube and apply around the entire exterior opening between air boot and air boot extender. After applied, squeeze the air boot and air boot extender together and wipe away any excess silicone with a rag.  
**(Note: Take your time when applying the silicone sealant)**
- Allow to fully cure for 24 hours before installing on motorcycle.





#### Section 4: Installing 2Tall Mudflap:

- Remove standard mudflap
- Position and install the 2Tall mudflap using the two standard bolts and washers
- Drill holes into plastic through the 3 holes in the mudflap.
- Place bracket with through holes in line with holes in mudflap. Insert screws provided and use the nut provided to fasten bracket to the mudflap. You can install the nuts for the screws through the air box.



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2Tall Racing reserves the right to repair or replace defective product at its discretion.

Product returned as a warranty after having been used, if found to be defective, is not valued at the full purchase price. A depreciated value will be estimated for used product. Products accepted as a warranty claim and repaired or replaced will need to be shipped/post back to the 2Tall Racing office (Address can be found on our website [www.2tallracing.com](http://www.2tallracing.com)) at the customers' expense.

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Please use invoice number as reference when returning the good. Returns must be sent back to 2Tall Racing office. Proof of purchase, such as a copy of the original invoice, must accompany all warranty claims. Warranties will be honored to the direct purchaser only.