HIGH PERFORMANCE

USVSEC GROUP
US Vehicle Security Group, LLC

INSTALLATION GUIDE

FLATS OVER®
SAFETY BAND

HEAVY DUTY

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- You can find an instructional video at **www.usvsec.com/media**
- These instructions apply to one (1) High Performance FlatsOver insert installation
- For High Performance FlatsOver from 16" to 23"

Follow these instruction to install Flats Over run flat insert on for a tire with a manufactured date less than two years ago. If your tire was manufactured more than two years ago, please use the "Installation Guide for Older Tires". You can find it at **www.usvsec.com/Media/InstallationOld.pdf**

These instructions must be followed as outlined, failure to comply with these procedures and/or fail to properly use the listed tools, can affect the operation of the FlatsOver insert and reduce its level of performance. US Vehicle Security shall not be held liable for any claim if these instructions are not followed as directed.

HIGH PERFORMANCE

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FITTING TOOLS

- Regular and Torque wrench
- Wrench extension (Tip: tape the socket to prevent it from falling down under the wheel)
- 18mm Hex socket
- Tire mount bar
- Long flat screwdriver handy
- For lubrication during install use water - based tire lube.

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UNPACKING

Once you received the FlatsOver Set, take it out of the box and/or protective wrapping. Verify number of pieces and size. Double check integrity for the rubber parts, cables and locking mechanism.

TESTING THE SYSTEM

Check that cables are properly secured and make lock nut turn one click per size. Apply WD40 to locking nut or spring if necessary.

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INSTALLATION STEP 1

Proceed to apply the tire water lubrication to the inner face of the FlatsOver system. Once the tire and wheel are secured and ready on the tire mounting machine, proceed to slide the FlatsOver system inside the tire with the locking mechanism facing up and looking to align the TPS notch with the TPS sensor.

INSTALLATION STEP 2

Closing the gap: start closing the system by turning 1 to 2 clicks per side of the FlatsOver. While you are closing the system always be careful to maintain the TPS aligned with the TPS notch. Be extra careful not to apply force to the TPS sensor.

Tip: tape the 18mm Hex socket to the extension to prevent it from falling under the wheel.

INSTALLATION STEP 3

Positioning the system: Once the system is starting to be tighter around the wheel, use the tire mounting bar to adjust the system upward to be aligned with the inner edge of the wheel. Repeat this procedure while rotating the wheel all around. Always close down 1 or 2 clicks per side until you reach a nice closing of the pieces. this procedure avoids lots of trouble.

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INSTALLATION STEP 4

Torque Checkpoint: when the system is tight, switch to the Torque Wrench tool. The goal is to achieve 116 LBF/Ft of torque when reaching the last click on each side locking mechanism, DO NOT over tighten the system, it can cut or damage the rubber and locking mechanism. At the point where you hear the click when the desire torque is reached, the system can be closed down to the point that the ends touch or there can be a space of no more than an inch per side. The images shown without the tire are ONLY for demonstrative purposes, ALWAYS install the systems with the tire on the wheel.

INSTALLATION STEP 5

Finishing Installation: once desired torque is reached, check that the TPS is loose and not pressed by the FlatsOver. Proceed to lube and re-install the tire lip back into the wheel. Inflate and balance the tire. Balancing: once balanced, the tire with the FlatsOver installed should not exceed 3 oz of counterweights. If this is not possible, troubleshooting is required, re-installation could be necessary.

RELEASING AND REINSTALLING

Releasing cables and re-install: If the system is not closed down evenly when you reach 116 LBF/Ft on one side, then you may need to loosen the system and start tightening it again from the beginning. In order to release the locking mechanism, you have to use the wrench, extension, 18 mm socket and flat screwdriver. First start by tighten the locking mechanism, when you achieve less than 1 turn, use the flat screwdriver to separate the locking pin and roll back the locking nut while pulling the cables and releasing or creating space in the system.

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