

IRON BALTIC

VAUHTI VARIKKO

MULTILINGUAL MANUAL



code.ironbaltic.com/u/sfvwKpxB

SECONDARY CLUTCH HELIX 38°- 48°

Segway Snarler AT6
Code 80.1180

Version 08122023



Distributor **IronBaltic, Estonia**

Producer **Vauhti Varikko, Finland**

Keep this manual for future reference!

If you need any spare parts, please send this packaging data to your local dealer or to Iron Baltic sales@ironbaltic.com

SPECIFICATION

Pos.	Description	Code	Amount
1	Helix 38°-48°	80.5001	1
2	Sticker (VauhtiVarikko)	PM.13.05.024	1
3	Sticker (IronBaltic)	PM.13.05.007	1



INSTRUCTIONS

38-48 degrees secondary clutch helix is ONLY suitable for SEGWAY SNARLER AT6 with Stage 1 clutch kit!

38-48 degrees secondary clutch helix is intended for use with stock or similar light weight 25" – 27" tires!

NB! If you have heavy weight 28"- 32" tires, then you must also install Stage 2 secondary spring 80.3702 (included in Stage 1 kit)!

Secondary clutch helix is intended for use with model specific stage 1 clutch upgrade kit and with clutch spring (see clutch kits www.ironbaltic.com)

Thank You that you have chosen our Clutch kit. Our Clutch kit helps to transfer the engine power better to the wheels so you can use the engine potential more effectively and vehicle is smoother to use. We have gone through long testing period – including real life driving tests as well as the dynamometer tests - before we have chosen this specific setup combination.

Our most popular, best all-around use kit helps to transfer the engine power better to the wheels!

- BEST for trail riding, occasional mud and sand riding, plowing and hauling.
- Smoother Engagement!
- The lower part of helix will let you drive low speed with higher rpm and therefore gives more HP and torque to wheels.
- The higher part is designed to give more and more upshifting with same rate as your engine is making more power!
- Better acceleration and overall feeling
- Quicker backshift which results in crisp throttle response!
- Reduces belt slip and heat.

Clutch upgrade kits are fully tested and accepted by most SEGWAY distributors. Correctly installed upgrade kit will not cause any damages to your vehicle. The manufacturer of the Clutch upgrade kit is not responsible for any damage or failure of your vehicle or in case the warranty of your machine will be voided. To ensure correct installation and to avoid possible inconveniences we recommend ordering the installation from an authorized SEGWAY dealer.

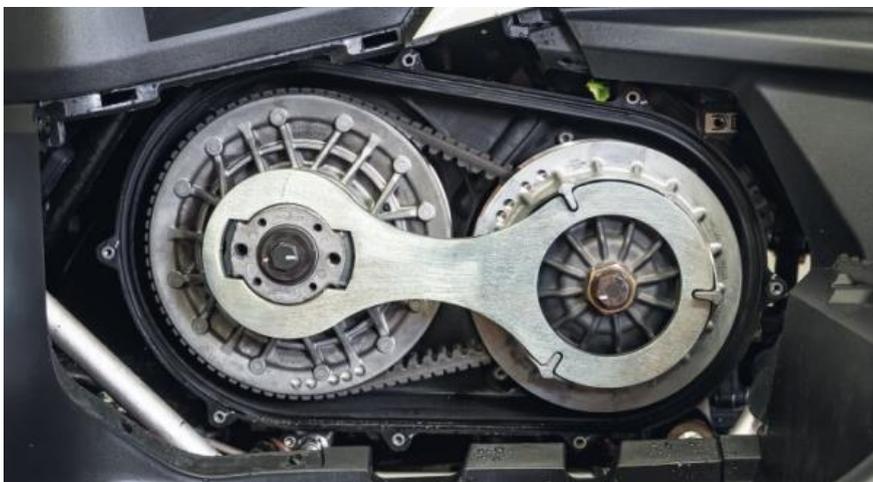
1. Remove plastic cover around the CVT. One retainer clip is hidden under the white plastic.



2. Open CVT cover.



3. Install the clutch holding tool (80.3900).



4. Remove the secondary clutch nut. Use an 18 mm wrench.
***Skip this step if you do not plan to adjust the secondary clutch.
It is necessary when using bigger tires (27"-28").***



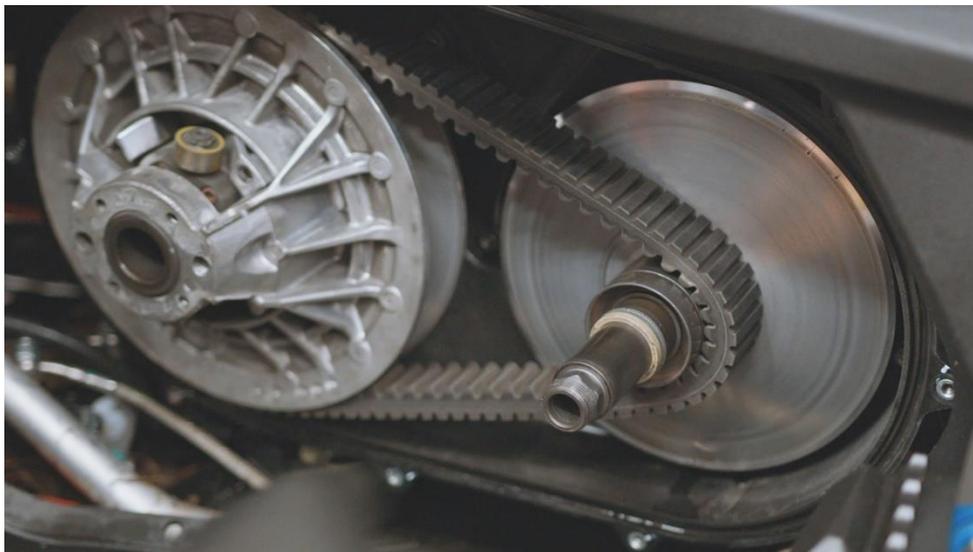
5. Remove the clutch bolt. Use 21 mm wrench. **NB! Bolt has left hand thread!**



6. Remove the cover plate nut. Use 32 mm wrench. **NB! Nut has left hand thread!**

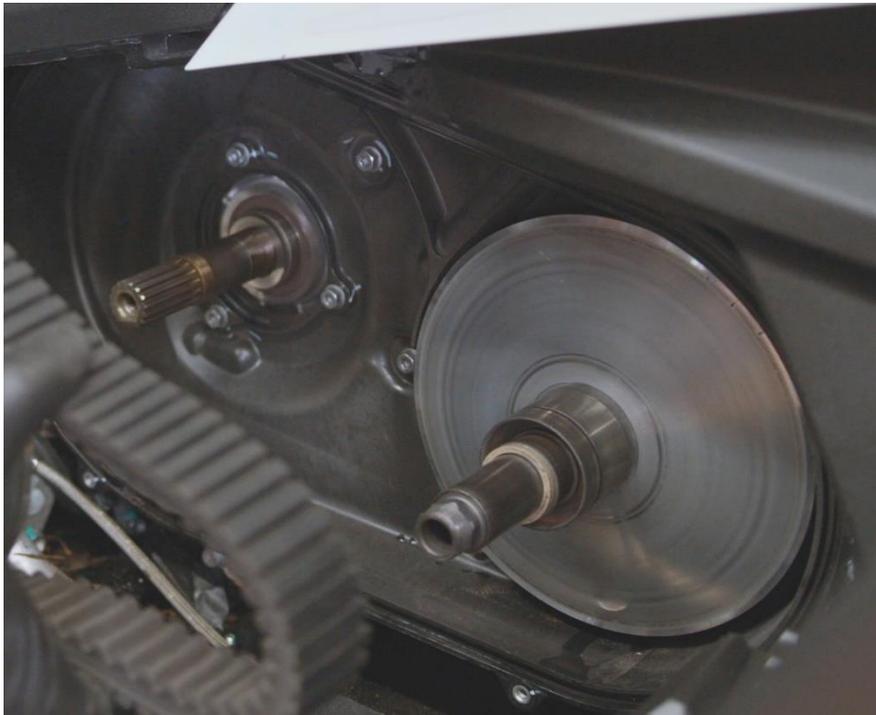
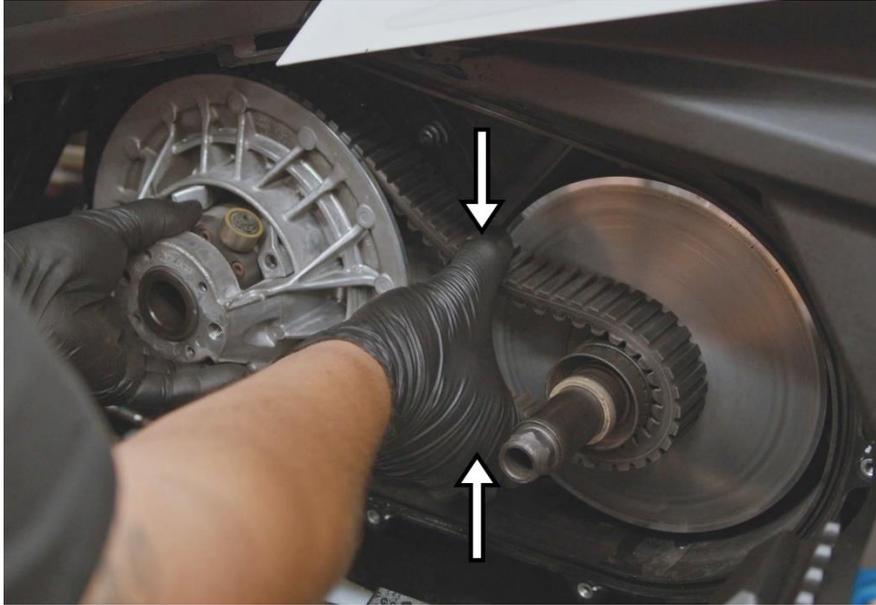


7. Remove clutch holding tool and primary clutch.



***Skip to Step 14 if you do not plan to change the secondary clutch.
It is necessary when using bigger (28"-30") tires***

8. Squeeze the belt, so the belt would sit lower in the secondary clutch and then remove the secondary clutch.



9. Open secondary clutch.

A special tool (clutch spring compression tool: 80.400) is required.

- a. Place the secondary clutch to tool.



- b. Lower the spring seat with the compression tool until the retaining ring appears and remove it with an appropriate pair of pliers.



- c. Raise the compression tool slowly until the spring pressure is completely loosen and you can remove the spring seat. Be careful of the loaded spring! Remove the old spring.

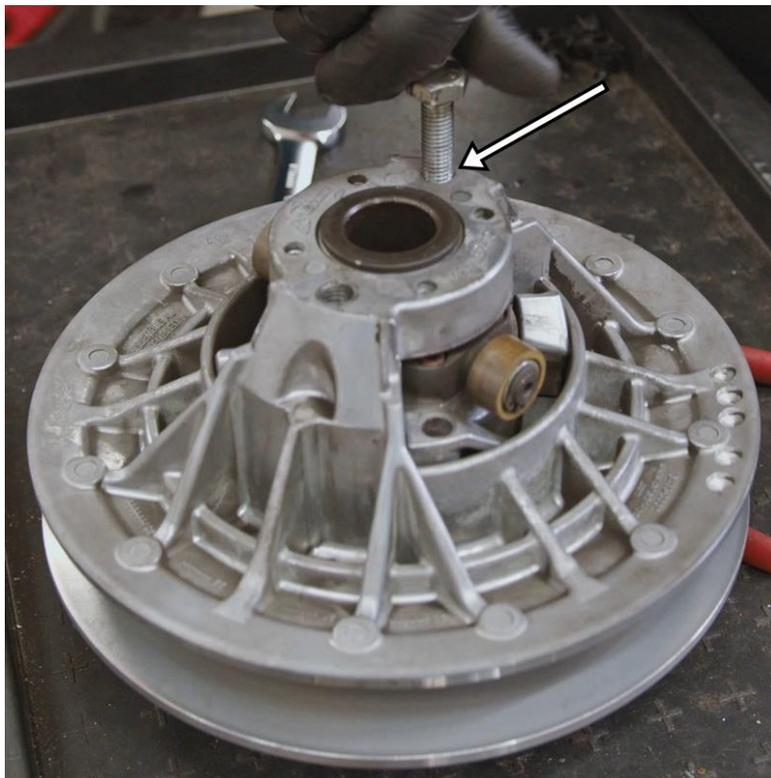


10. Install new secondary spring (80.3702) and reassemble secondary clutch.
Press the spring seat with compression tool until you can install the retaining ring back.
NB! Make sure the spring seat is in correct position! Notch on the seat fits with spring end.

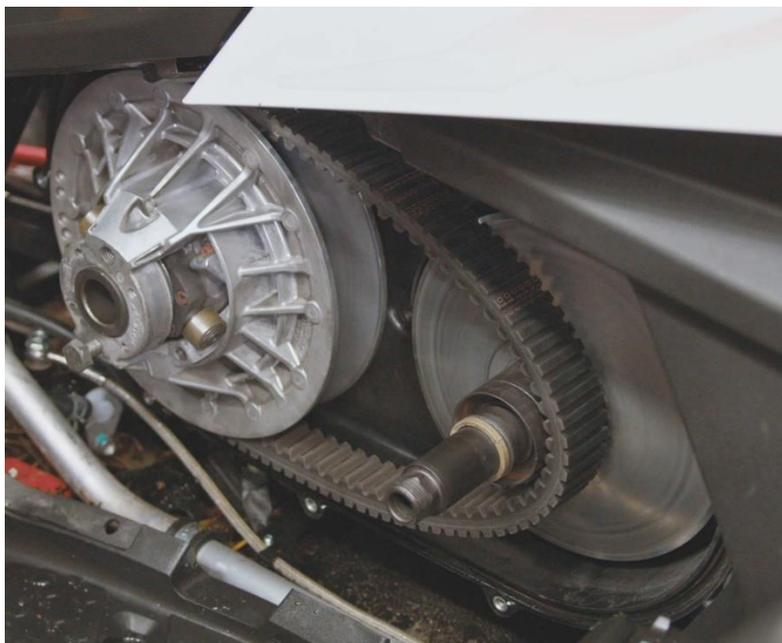


11. Remove the compression tool.

12. Screw in the special bolt (80.3903) to spread the secondary clutch a little bit, so the belt can fit between the two halves.



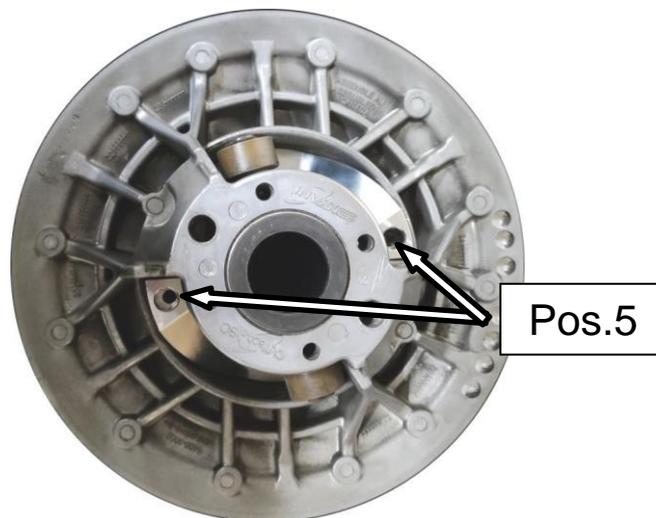
13. Re-install CVT belt and secondary clutch. Remove the special bolt (80.3903) from secondary clutch.



14. Remove stoppers from secondary clutch. You can do it when secondary clutch is removed from ATV or in place. After removing stoppers, turn one clutch plate while holding the other in place, so that the rollers would be where stoppers were.



15. Remove old helixes by lifting them out and install new ones. Use thread lock fluid when assembling.



16. Turn the clutch plate to the other side and reinstall the stoppers. Use thread lock fluid when assembling.



17. Re-install the primary clutch in place.



18. Reinstall the back plate nut. Do not tighten it. Use thread-lock glue. **NB! Nut has left hand thread!**



19. Reinstall the Clutch Bolt. Do not tighten it. Use thread-lock glue. **NB! Bolt has left hand thread!**



20. Reinstall secondary clutch bolt. Do not tighten it. Use thread-lock glue.



21. Install the clutch holding tool (80.3900)



22. Tighten the bolts / nuts.

a. Use 32 mm wrench and tighten **back plate nut** to 105-120 Nm.

NB! Nut has left hand thread!

b. Use 21 mm wrench and tighten the **clutch bolt** to 105-120 Nm.

NB! Nut has left hand thread!

c. Use 18 mm wrench and tighten the **secondary clutch nut** to 80 Nm.

23. Remove clutch holding tool. Check that everything is secured and install CVT cover and plastics back.

You are ready to test drive!

IRON BALTIC

IRON BALTIC OÜ
Joa tee 17
Vääna 76903
Estonia / Europe

+372 6 533 711
sales@ironbaltic.com

www.ironbaltic.com
www.facebook.com/ironbaltic
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