Ski-Doo Summit X 2021+ and Freeride 2020+

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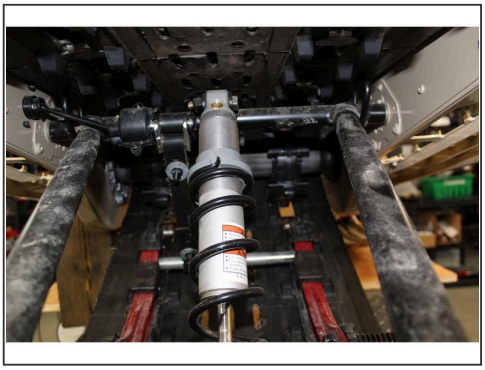
Step 1 — Installing the new Elka front shocks





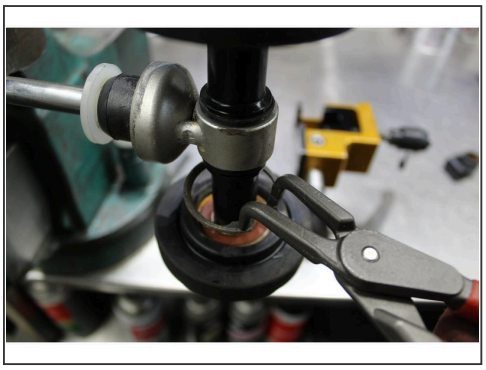
- Lift the front of the snowmobile in such a way that the skis are off the ground.
- Remove the stock shocks according to the procedures recommended by the manufacturer.
- Install the Elka front shocks with the piggyback reservoir pointing towards the side of the snowmobile as shown.
- The lower shock eyelets should be installed with the rebound adjuster oriented towards the outside of the vehicle as shown.
- We recommend tightening the bolts to factory spec with the weight on the skis.

Step 2 — Removing the center shock


- Remove the limiter strap.
- Lift the rear of the snowmobile in such a way that the track is not touching the ground.
- Remove the spring supports to remove any tension on the torsion springs.
- Remove the stock suspension.

Step 3 — Removing the lower shaft from the center shock





- Remove the circlips and remove the idler wheel off one side of your centre shock assembly.
- Installe the shaft gently in a vice, you can tap or press the bearing off on one side.
- Remove the shaft assembly from the bottom of the centre shock.
- This shaft assembly can now be reinstalled into the Elka shock.

Step 4 — Installing the lower shaft on the Elka center shock.





- Liberally greasing the bushing area and including the two washers supplied with the Elka shock absorber.
- Reinstall the lower shaft on the center Elka shock in the reverse order it was remove.
- When assembling the lower shaft, place the provided spacer (shown by the red arrow) between the eyelet and its contact surface. Do this on each side.
- Install de center shock with the head facing up and the reservoir facing the right side, away from the limiter strap.
- The lower shock eyelets should be installed with the rebound adjuster oriented towards the rear of the vehicle as shown.
- Torque all fasteners to factory spec using blue loctite on the lower shock bolts.
- The upper bolt has a Nylok thread locking system. And can be reused two or three times before being replaced.

Step 5 — Installing the Elka rear shock



- Remove the rear shock according to the procedures recommended by the manufacturer.
- Install the Elka rear shock with the reservoir at the bottom and oriented towards the front of the snowmobile as shown on the photo.
- The lower shock eyelets should be installed with the rebound adjuster oriented downwards of the snowmobile.
- Reinstall the spring supports
- Lower the snowmobile completely and re-install the limiter strap

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