



Easy Diesel Hand Starting With  Kineteco Spring Starters

Spring Starter Check Procedure for SZ Range Spring starters

DO NOT WIND A SPRING STARTER UNLESS INSTALLED ON AN ENGINE

If you want to check that your **spring starter** is in good operating order, follow this procedure.
A qualified engineer should perform this operation.

STARTER INSTALLED ON ENGINE

1. Check that the spring is unwound by pulling or pushing the trip lever. This will discharge the starter, then ;
2. Check that the winding shaft can be rotated clockwise at least 10 revolutions without any increase in resistance. If so the starter is discharged and can be removed from the engine.

Report to Kineteco for further instructions if winding shaft will not rotate and the starter cannot be tripped or unwound, or if the resistance increases when attempting to wind. Do not dismantle the starter from the engine.

STARTER NOT INSTALLED ON ENGINE

1. Make sure that the procedure above was followed prior to removal of the starter from the engine and that the winding shaft will rotate in a clockwise direction. The pinion should be retracted and should rotate when the starter is wound.
2. Press the reset button and pull the trip lever. You should be able to hear a loud click as the reset button is pushed, and a much quieter one as the trip lever is pulled.
3. After pulling the trip lever, turn the handle and check that the pinion rotates freely without going forwards.
4. Pull the trip lever down, and check that the pinion can be pulled freely forward to the shoulder at the front of the shaft against the return spring pressure.
5. Press the reset button and turn the handle again. The pinion should rotate and lock, then try to move forward without rotating to the end of the shaft where it stops. If no resistance is placed on the pinion, it may jump back and then try again. If necessary, use the tip of a screwdriver to apply some load to the pinion, so that winding the starter can drive it right forward.
6. Stop turning the handle as soon as the pinion stops moving forward and resistance builds up on the winding handle. Trip the starter by pulling the lever. The pinion should withdraw back into the starter.

If there is a problem at any stage, contact Kineteco for further diagnostic instructions. Dismantling the **spring starter** will invalidate the warranty and make further diagnosis difficult.

Do not wind the starter to load it significantly at any stage when it is not mounted on the engine. Doing so may be dangerous and discharging the starter without a load may damage it.

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