

Engine  
Chassis  
**Transmission**  
E-Mobility

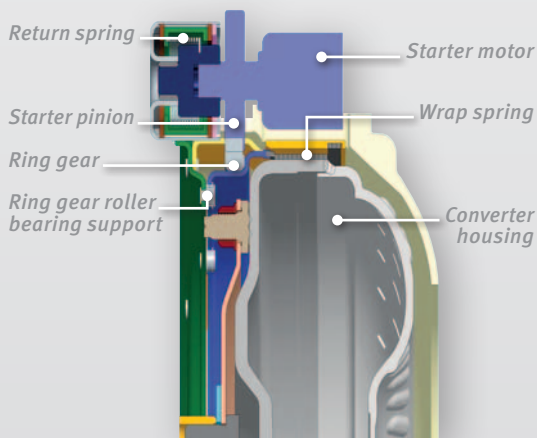
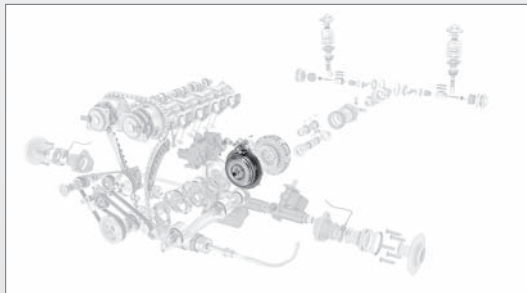
**SCHAEFFLER**

# Permanently Engaged Starter with Wrap Spring

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# Starter with Wrap Spring for Automatic Transmissions



## Description

- System for a permanently engaged starter (PES) with a wrap-around band for use with automatic transmission applications

## Functional advantages

- One-way clutch prevents system losses during normal driving operation
- Highly efficient package – requires no additional space in the drive train
- Allows dynamic and quiet engine restarts, particularly during change-of-mind events

## Product benefits

- Reduction of emissions
- System is cost effective compared to solutions currently available on the market

## Integration/assembly efforts

- Arranged directly on the torque converter, almost no modifications to the bell housing or torque converter are required
- Drop-in module – can be assembled with the torque converter at the transmission plant