



## **SSM 54338 2021-2026 Various Vehicles - 5.0L/5.2L/6.8L/7.3L Engines - Rattle/Scrape Noise From Starter Upon Startup**

Some 2021-2025 F-150 vehicles equipped with a 5.0L/5.2L engine, 2021-2025 F-Super Duty/F-53 Motorhome/F59 Commercial Stripped Chassis vehicles equipped with a 6.8L/7.3L engine and 2021-2026 E-Series/F-650/F-750 vehicles equipped with a 7.3L engine may exhibit a rattle/scraping noise upon startup that may remain after the engine is running. This may be due to the starter motor drive gear not retracting after starting. To correct this condition, inspect the starter motor drive gear and shaft. If the starter motor drive gear slides back and forth by hand and/or shows signs of scoring or damage, replace the starter motor following Workshop Manual (WSM), Section 303-06 Starting System > Removal and Installation > Starter.