



## What Causes a Transmission Whining Noise

# Manual Transmission Making Rattling Noise

**Wolfgang Guggemos**



## **Manual Transmission Making Rattling Noise:**

**How To Rebuild and Modify Your Manual Transmission** Robert Bowen, This resource explains how to rebuild and modify transmissions from both rear and front wheel drive cars It explains the principles behind the workings of all manual transmissions and helps readers understand what they need to do and know to rebuild their own transmissions Includes how to determine what parts to replace how and why to replace certain seals spacers springs forks and other parts and where to find and how to measure the specifications for each particular transmission *Lemon-Aid Used Cars and Trucks 2012-2013* Phil Edmonston, 2012-05-19 A guide to buying a used car or minivan features information on the strengths and weaknesses of each model a safety summary recalls warranties and service tips **Automotive Transmissions** Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak, 2010-11-09 This book gives a full account of the development process for automotive transmissions Main topics Overview of the traffic vehicle transmission system Mediating the power flow in vehicles Selecting the ratios Vehicle transmission systems basic design principles Typical designs of vehicle transmissions Layout and design of important components e g gearshifting mechanisms moving off elements pumps retarders Transmission control units Product development process Manufacturing technology of vehicle transmissions Reliability and testing The book covers manual automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles Furthermore final drives power take offs and transfer gearboxes for 4 WD vehicles are considered Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions About 40% of the second edition s content is new or revised with new data *Chilton's Motor/age Automotive Service Manual* ,1974 Cumulative Index [of The] SAE Papers Society of Automotive Engineers, 1965 Lemon-Aid Used Cars and Trucks 2011-2012 Phil Edmonston, 2011-04-25 As Toyota skids into an ocean of problems and uncertainty continues in the U S automotive industry Lemon Aid Used Cars and Trucks 20112012 shows buyers how to pick the cheapest and most reliable vehicles from the past 30 years Lemon Aid guides are unlike any other car and truck books on the market Phil Edmonston Canada s automotive Dr Phil for 40 years pulls no punches Like five books in one Lemon Aid Used Cars and Trucks is an expos of car scams and gas consumption lies a do it yourself service manual an independent guide that covers beaters lemons and collectibles an archive of secret service bulletins granting free repairs and a legal primer that even lawyers cant beat Phil delivers the goods on free fixes for Chrysler Ford and GM engine transmission brake and paint defects lets you know about Corvette and Mustang tops that fly off gives the lowdown on Honda Hyundai and Toyota engines and transmissions and provides the latest information on computer module glitches **Petersen's Basic Automotive Troubleshooting** Richard Bean, 1977 **Glenn's Auto Repair Manual** ,1956 Manual of Drive Trains and Axles Thomas W. Birch, 1994 *Lemon-Aid Used Cars and Trucks 2009-2010* Phil Edmonston, 2009-02-16 For the first time in one volume Phil Edmonston Canada s automotive Dr Phil covers all used vehicles packing this guide with insider tips to

help the consumer make the safest and cheapest choice possible from cars and trucks of the past 25 years **Lemon-Aid**

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Baumann,2023 Caused by downsizing of combustion engines the torque fluctuation at the crankshaft induces torsional vibrations in the powertrain Manual transmissions and dual clutch transmissions are particularly sensitive to gear rattle noise Gear rattle noise arises from oscillations of loose parts with clearance e g idler gears synchronizer rings and gearshift sleeves The aim of this research is the formulation of a gear oil for the application in a manual transmission to minimize gear rattling noise Acoustic measurements on a gear rattle noise test bench verify the noise reduction of the developed gear oils with commonly used low oil viscosity An analysis of the transmission error proves that gear tooth impacts during rattling lead to elastic deformation of the meshing gear pairs The main source for the intensity of gear rattle noise is the additional presence of meshing impacts at the beginning of each gear pair meshing Gear rattle noise reduction can be achieved by avoiding meshing impacts e g by minimizing the traction coefficient of the gear oil About the author Dr Axel Baumann is an engineer top business expert for technology in vehicle and mechanical engineering He has proven leadership and management skills from his many years of work as a department and project manager and from his 4 years as a university lecturer and scientist His studies and doctorate at the University of Stuttgart in the field of machine components dealt with powertrain technology *Phil Edmonston's Lemon-Aid SUVs, Vans, and Trucks 2005* Phil Edmonston,2004-12-01

**Automobile Bulletin** ,1964 Automotive Engines William Harry Crouse,Donald L. Anglin,1976 *Chilton's Chrysler/Dodge/Plymouth Repair Manual, 1981-88* ,1989 These manuals provide comprehensive repair and maintenance information on all makes and model years as indicated for each manufacturer For consumers who stick to one make of car this series will provide multi vehicle information For retailers with limited shelf space this series provides model specific coverage in only five volumes Motor Cycling and Motoring ,1910 **Used Car and Truck Book** Consumer

Guide,2001-03 This all new edition profiles more than 180 of the most popular models from 1990 to the present including photos descriptions specifications retail prices safety recalls trouble spots and replacement costs Features evaluations of cars trucks SUVs and minivans Plus shopping tips checklists and essential information that helps the buyer choose the right car the first time *Investigation on Abnormal Gear Rattle Noise in Automated Manual Transmission (AMT) After Gear*

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