

## 2004 2005 Mercedes Benz Slr Class Maintenance Manual

· Technical explanation of composite materials in vehicle design and manufacture · Covers all phases of composites design, formulation, fabrication, and testing · Features hundreds of case studies and hard-to-find formulas and analytical data · Detailed information on resins, preforms, lightweighting, biobased materials -----

----- This technical book provides a comprehensive explanation of how advanced composite materials, including FRPs, reinforced thermoplastics, carbon-based composites and many others are designed, processed and utilized in exterior, interior, under-the-hood, structural, semi-structural and non-structural components in passenger cars, performance cars, trucks, motorbikes, and mass transit vehicles. The book clarifies how the material properties of composites can be optimized to decrease weight, expand design options, improve crashworthiness, and reduce fuel consumption in response to CAFE and other regulations. The many case studies and equation-based analyses in this book are intended to assist engineers and others in the selection of materials and the fabrication of vehicle parts. Table of Contents: CHAPTER 1: INTRODUCTION 1.1

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Introduction 1.2 History and Legislative Actions 1.3

The Case for Lightweighting 1.4 Technological

Barriers 1.5 Advantages and Opportunities 1.6

Integral Factors 1.7 Summary 1.8 References

CHAPTER 2: POLYMER RESINS, ADDITIVES AND  
SANDWICH CORES FOR AUTOMOTIVE, MASS

TRANSIT AND HEAVY TRUCKS 2.1 Introduction

2.2 Polymer Resins: Thermoset and Thermoplastic

2.3 Thermoset Polymer Composites 2.4

Thermoplastic Resins 2.5 Additives 2.6 Structural

Foams and Core Materials 2.7 Summary 2.8

References CHAPTER 3: REINFORCEMENTS FOR  
AUTOMOTIVE AND TRANSPORTATION

APPLICATIONS 3.1 Reinforcing Fibers 3.2

Reinforcement Length Scales and Forms 3.3 Glass

Fibers 3.4 Carbon or Graphite Fibers 3.5 Aramid

(Kevlar") Fibers 3.6 High-Strength Polyolefin Fibers

3.7 Basalt Fibers 3.8 Summary5 3.9 References

CHAPTER 4: MATERIAL FORMS FOR

AUTOMOTIVE, HEAVY TRUCKS AND MASS

TRANSIT 4.1 Need for Intermediate Material Forms

4.2 Preforming 4.3 Intermediate Material Form for

Thermoplastic Composites 4.4 Summary 4.5

References CHAPTER 5: DISCONTINUOUS

REINFORCEMENT-BASED PROCESSES FOR  
AUTOMOTIVE AND TRANSPORTATION

APPLICATIONS 5.1 Discontinuous Forms 5.2 Glass

Mat Thermoplastic Composites (GMT) 5.3 Long

Fiber Thermoplastics (LFT) 5.4 Sheet Molding

# Access Free 2004 2005 Mercedes Benz Slr Class Maintenance Manual

Compound (SMC) 5.5 Compression Molding 5.6  
Programmable Powdered Preform Process (P4) 5.7  
Structural Foam Molding 5.8 Other Application Case  
Studies with Discontinuous Fiber Composites 5.9  
Exterior 5.10 Interior 5.11 Lightweighting Fuel Cells  
5.12 Summary 5.13 References CHAPTER 6:  
CONTINUOUS FIBER REINFORCEMENT BASED  
PROCESSES FOR AUTOMOTIVE, HEAVY  
TRUCKS AND MASS TRANSIT 6.1 Continuous  
Fiber Composites 6.2 Preforming 6.3 Continuous  
Fiber Processes for Automotive and Transportation  
Applications 6.4 Application Case Studies with  
Continuous Fiber Reinforcements 6.5 Summary 6.6  
References CHAPTER 7: MECHANICS AND  
DESIGN TIPS 7.1 Test Methods and Specific  
Properties 7.2 Conversion Between Volume and  
Weight Fractions 7.3 Stiffness and Strength  
Prediction of Discontinuous and Continuous Fiber  
Composites 7.4 Stiffness Equivalency 7.5 Sandwich  
Composites 7.6 Ribbed LFT and Tape Reinforced  
LFT 7.7 Summary 7.8 References CHAPTER 8:  
COMPOSITE MANUFACTURING PROCESS  
ANALYSIS FOR AUTOMOTIVE PARTS 8.1  
Background 8.2 Production Requirements 8.3  
Representative Part 8.4 Cost Analysis 8.5 Economic  
Benefit for the Material Supplier 8.6 Summary 8.7  
References CHAPTER 9: CARBON FIBER 9.1  
Background 9.2 Challenges 9.3 Typical Properties of  
Automotive Carbon Fiber Composites 9.4 Carbon

# Access Free 2004 2005 Mercedes Benz Slr Class Maintenance Manual

Fibers in Cars 9.5 Summary 9.6 References

CHAPTER 10: PERFORMANCE CARS 10.1

Background 10.2 Performance Cars 10.3 Hypercar

10.4 Futuristic Concept Cars 10.5 Race Motorbikes

10.6 Summary 10.7 References CHAPTER 11:

HEAVY TRUCKS AND MASS TRANSIT 11.1

Commercial Motor Vehicles (CMVs) 11.2 Role of

Composites in Mass Transit 11.3 Composite

Subelements for Mass Transit 11.4 Summary 11.5

References CHAPTER 12: JOINING AND

ADHESIVES 12.1 Joining and Bonding Strategies

12.2 Adhesive Bonding 12.3 Fusion

Bonding/Welding 12.4 Joining in Automotive and

Transportation Components 12.5 Summary 12.6

References CHAPTER 13: BIOCOMPOSITES,

RECYCLING AND ENVIRONMENTAL ASPECTS

13.1 Need for Environmentally Friendly Materials

13.2 History 13.3 Regulations 13.4 Green

Materials/Natural Fibers 13.5 Bio-Resins and

Nanoclay Modified Resins 13.6 Nanocomposites

13.7 Intermediate Forms 13.8 Examples of Natural

Fiber and Biocomposite Automotive Parts 13.9

Recycled Composite Scrap for Transportation 13.10

Summary 13.11 References CHAPTER 14:

OVERALL SUMMARY 14.1 Overall Trends 14.2

Opportunities and Challenges Index

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### Regulations2000-

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