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# 2024 Unitized Structural Body Repair Exam Guide with complete solution

**Unibody** - Lightweight stamped sheet metal components that are welded to each other to create a single unit.

**Space Frame** - Body panels can be made from plastic or steel. Steel may be Mild, Intermediate, or HSS. Panels may hide damage to frame or structure.

**Crush Zones** - Structural components such as rails are designed to collapse and bend at specific points.

**Collision Energy Management** - Goal is passenger protection. Front and rear structures act as crushable energy absorbers.

**Direct Damage** - POI. Easily located and diagnosed.

**Indirect Damage** - transmission of collision energy beyond the area of immediate impact. Examples: Split seam sealers, pulled spot welds, misaligned panels, buckles in steel, cracked glass, and cracked or chipped paint.

**Passive Restraint Systems** - Must have service manual. No two are alike.

**Datum** - Imaginary plane or line beneath the vehicle. Measures height.

**Centerline** - Vertical plane that passes from the front of the vehicle to the rear. Measures Width. May have stamped marks on vehicle body structure. Is confirmed by referencing at least 3 width measurements in the undamaged portion of the vehicle.

**Zero Planes** - Vertical plane that passes from side to side. Confirmed by measuring 3 length measurements from the undamaged portion of the vehicle.

# Michigan Unitized Body Structural Repair Manual

**SJ Ball**



## **Michigan Unitized Body Structural Repair Manual:**

**Michigan Administrative Code 1979** ,1980     Michigan Register Michigan. Legislative Council,1996-06  
Government Reports Announcements & Index ,1976     Transport Topics ,1962     **Motor Body Repair Manual**  
Specialists in Automobile Body Repair Equipment,1964     Auto Body Repair Technology James E. Duffy,2014-12-10 AUTO  
BODY REPAIR TECHNOLOGY Sixth Edition features extensive new and updated material reflecting the latest automotive  
technology and current industry best practices In addition to incorporating current ASE Education Foundation Collision  
Repair and Refinish Program Standards and Task Lists this market leading book provides detailed information on working  
with hybrid and electric vehicles using environmentally friendly water based paints and other cutting edge methods and  
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procedures you need to succeed as a professional automotive technician Important Notice Media content referenced within  
the product description or the product text may not be available in the ebook version     *Tech Manual for Duffy's Auto Body  
Repair Technology* James E. Duffy,2014-12-15 The Tech Manual is designed to bridge the chapter content with application in  
the shop     Motor Auto Body Repair, Technical Manual Robert Scharff,Ltd Staff Scharff Associates,1992-03     **The**  
**Auto-body Repair Manual 1960** Scientific Magazines Publishing Company,1959     Unibody Collision Repair Manual for  
1982-1985 "A" Body, 1980-1985 "X" Body General Motors Corporation,1986     Tech Manual for Duffy's Auto Body Repair  
Technology, 5th James E. Duffy,2008     Body Repair Manual American Motors Corporation,1961     **Chilton's Minor Auto**  
**Body Repair Manual** Chilton Automotive Books,The Nichols/Chilton,1989-06 Covers all minor and major damage repair  
The Auto-body Repair Manual 1960 ,1959     *Motor Body Repair Manual* SABRE.,     **Unibody Collision Repair**  
**Manual for 1987-1988 "L" Body** General Motors Corporation,1987     Mitchell Auto Body Repair Tech Manual Duffy  
Scharff,1997-12-01     **Lab Manual for Duffy's Auto Body Repair Technology, 7th** Paul Uhrina,James E. Duffy,Jonathan  
Beaty,2020-02-14 The Tech Manual is designed to help readers apply what they learn from chapter content through hands on  
activity in the shop     **Automotive Body Repair & Painting Manual** John Haynes,1989-10-15 This is a complete do it  
yourself guide What you can learn Full color sections on minor repairs and painting Damage repair Painting Rust Repair  
Additional detailed information includes Rustproofing and undercoating Tools and equipment Repair of minor dents and rust  
damage Metal working techniques Major rust repair Body component replacement Sanding and painting Car care and  
detailing Welding Table of Contents Chapter 1 Introduction Chapter 2 Maintaining and preserving the paint body and interior

Chapter 3 Damage repair Doing it yourself or having it done Chapter 4 Tools and working facilities Chapter 5 Minor body repairs Chapter 6 Major body repair Chapter 7 Body component replacement Chapter 8 Preparation for painting Chapter 9 Painting Chapter 10 Doors and glass Chapter 11 Trim and accessories Chapter 12 Welding     **Tech Manual for Thomas/Jund's Collision Repair and Refinishing** Alfred Thomas, Michael Jund, 2018-01-08 The Tech Manual to accompany Thomas Jund's COLLISION REPAIR AND REFINISHING A FOUNDATION COURSE FOR TECHNICIANS Third Edition is designed to work hand in hand with the textbook to offer additional opportunities for review and application of the material covered in the book's chapters Work Assignments Work Orders and Review Questions are included in each chapter for a fully rounded approach to learning and applying chapter content

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