

GUIDE TO ESTIMATING

ESTIMATED WORK TIMES

All operation times are listed in hours and tenths of an hour. A time listed as 3.5 indicates three and one half hours.

ESTIMATED WORK TIME PREMISE

The estimated work times reported in this publication are to be used as a **GUIDE ONLY**. MOTOR recommends a review of the OE service information at the time of estimate preparation to confirm the OE manufacturer repair procedure(s). MOTOR assumes the repair facility is equipped with the necessary tools, equipment, and training to complete any given repair following published vehicle manufacturer repair procedures. Reported times include normal adjustment procedures within the range of motion permitted by the fastener(s) or component to ensure proper fit of the individual new part being replaced. Reported times include tube/padded OEM caulking and seam sealer removal/application on bonded, riveted, and welded replacement panels. Sprayable seam sealer equipment requires preparation and adjustment before application and is **NOT INCLUDED** IN ESTIMATED WORK TIME.

Estimated work times do not apply to vehicles with equipment other than that supplied by the vehicle manufacturer as standard or regular production options. If other equipment is used, the time may be adjusted to compensate for the variables. Removal and replacement of exchanged or used parts is not considered. If additional aligning or repair must be made, such factors should be considered when developing the estimate. Items not listed under the **INCLUDED/DOES NOT INCLUDE** heading for any given procedure have not been considered in the estimated work time development for that procedure, unless specified by a footnote. All included/not included items for labor procedures listed between pages G10 and G33 are for component R&R and R&I procedures unless otherwise indicated in operation heading.

Many OEMs recommend a pre-and post-repair diagnostic scan on all vehicles involved in a collision that could reveal pre-accident or accident-related damage. Due to the variety of vehicle manufacturer-approved scan tools, both OEM and aftermarket, as well as the variation from vehicle to vehicle and repair to repair, MOTOR is unable to develop a time that accounts for these different scenarios. Therefore, MOTOR recommends an on-the-spot evaluation to determine an appropriate estimated time to perform diagnostic scans for each repair. Please refer to OEM position statements and repair procedures for more information.

OPERATION TIMES LISTED ARE BASED ON NEW UNDAMAGED PARTS INSTALLED ON NEW UNDAMAGED VEHICLES AS INDIVIDUAL OPERATIONS. TIME HAS NOT BEEN CONSIDERED FOR ALIGNMENT PULLS, DAMAGE-RELATED ACCESS TIME, DAMAGED, USED, REMANUFACTURED OR AFTERMARKET PARTS. SOME OPERATION TIMES ARE APPLICABLE AFTER BOLTED, ATTACHED OR RELATED PARTS HAVE BEEN REMOVED. REFER TO SPECIFIC FOOTNOTES ATTACHED TO OPERATION TIME LISTING.

ESTIMATED WORK TIME PREMISE - Continued

- Brackets & braces transfer
- Broken glass removal or clean up
- Brakes, bleed and adjust
- Caulk (non-OEM), sound insulate or paint inner areas
- Clean up or detailing of vehicle prior to delivery
- Computer control module D&R/relearn
- Conversion Vans (special components, equipment and trim)
- Cutting, pulling or pushing collision damaged parts for access
- Damaged or defective replacement parts
- Drain & refill fuel tank
- Drilling, modification or fabrication of mounting holes
- Fabricate templates, reinforcing inserts, sleeves or flanges
- Filling, plugging and finishing of unneeded holes in new parts
- Information label installation
- Maintenance costs of building or equipment
- Material costs
- Pinch weld clamp damage repair
- Refinishing
- Repair information retrieval/lookup
- Reset electronic memory functions after battery disconnect
- **Rivet gun set-up or preparation**
- Road test vehicle
- Rusted, frozen, broken or corrosion damaged components or fasteners
- Scaffolding/temporary support setup and removal
- Scan tool clear/reset electronic module
- Scan tool diagnostics
- Steering Angle Sensor recalibration
- Straighten or align used, reconditioned or non-OEM parts
- Structural damage diagnosis and vehicle set up time
- Structural foam removal or application
- Test for water leaks (except Windshield, Back Glass, and Stationary Glass)
- Test panel/spray caulk
- Testing/practice to duplicate OE caulking appearance
- Trial-Fit of a component to verify dimensional accuracy of adjoining parts
- Undercoating, tar or grease removal
- Unprimed bumpers, removal of mold-release agents
- Waste disposal fees (all types)
- Weld through primer
- Welded seam surface finishing finer than 150 grit sandpaper
- Welder set-up or preparation
- Wheel or hub cap locks R&I

FRONT BUMPER ASSEMBLY - R&I ALL TYPES



LABOR OPERATIONS

Motor Collision Estimating Guide

Donald E. Struble, John D. Struble



Motor Collision Estimating Guide:

Auto Repair United States. Congress. House. Committee on Interstate and Foreign Commerce. Subcommittee on Consumer Protection and Finance, 1979 **Automotive Accident Reconstruction** Donald E. Struble, John D. Struble, 2020-01-24 This fully updated edition presents practices and principles applicable for the reconstruction of automobile and commercial truck crashes Like the First Edition it starts at the very beginning with fundamental principles information sources and data gathering and inspection techniques for accident scenes and vehicles It goes on to show how to analyze photographs and crash test data The book presents tire fundamentals and shows how to use them in spreadsheet based reverse trajectory analysis Such methods are also applied to reconstructing rollover crashes Impacts with narrow fixed objects are discussed Impact mechanics structural dynamics and conservation based reconstruction methods are presented The book contains a comprehensive treatment of crush energy and how to develop structural stiffness properties from crash test data Computer simulations are reviewed and discussed Extensively revised this edition contains new material on side pole impacts It has entirely new chapters devoted to low speed impacts downloading electronic data from vehicles deriving structural stiffness in side impacts and incorporating electronic data into accident reconstructions **Crashworthiness of**

Motor Vehicles: a Bibliography L. Flynn (comp), 1978 *How to Repair and Restore Bodywork* David H. Jacobs, 1991

The New Materials Society, 1990 *The New Materials Society: Materials shifts in the new society*, 1990

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House. Committee on the Judiciary. Subcommittee on Courts, Civil Liberties, and the Administration of Justice, 1989

Automobile Crash Parts United States. Congress. Senate. Committee on Commerce. Consumer Subcommittee, 1976

Passenger Safety and Convenience Systems Ronald K Jurgen, 2000-11-01 Passenger Safety and Convenience Systems is made up of 61 technical papers and articles written in the last decade covering a variety of electronic systems for driver and passenger safety and convenience Many papers in this book could arguably be considered in both categories because they provide the driver passenger with multiple functions of safety and convenience Some examples include keyless entry security systems night vision and more This book concludes with a chapter on Future Development in Electronically Controlled Body and Safety Systems

The Top Books of the Year Motor Collision Estimating Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Motor Collision Estimating Guide : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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