STEERING AND SUSPENSION DAMAGE ANALYSIS

DAM06

Properly analysing collision damaged vehicles often requires today's technicians to have an understanding of suspension and steering components. The correct analysis of damaged components will help ensure repairs are performed thoroughly. With the large number of front wheel drive vehicles available in the market today, the correct alignment of the structure and steering and suspension components will ensure the vehicle owner has the motor vehicle returned with the knowledge that a complete and safe repair has been performed.

Course Content

Module 1—Steering and Suspension Overview

This module identifies types of steering systems, steering systems parts and parts of front and rear suspension systems.

Module 2—Damage Analysis

In this module, the student will learn about suspension alignment angles and identify testing procedures for steering and suspension damage analysis. The student will examine ways to properly analyse steering and suspension issues and determine which types of damage can cause specific problems. The student will also learn about performing steering and suspension quick checks, analysing parts for damage and diagnose damage by interpreting alignment angles.

Recommendations

This class covers a range of parts and materials common on many of today's vehicles. It is recommended that students have an understanding of vehicle construction and damage analysis procedures. Other courses that may be helpful include:

- Fundamentals of Collision Repair (FCR01)
- Structural Steel Damage Analysis (DAM12)

Registration

To register for Steering and Suspension Damage Analysis (DAM06) click here or visit www.i-car.com.au

Course Highlights

Points: 1

Estimated Duration: 4 Hours

Format: Classroom & Virtual Classroom

Meets the I-CAR training requirements for the following roles:


ESTIMATOR


ASSESSOR

After completing this course, you will be able to:

- Explain the role of steering systems and front and rear suspension
- Understand general concepts around steering and suspension
- Identify damaged parts related to steering and suspension
- Analyse caster, camber, toe and other alignment angles
- Determine damaged parts that cause steering and wheel tracking problems
- Understand ride heights difference, additional inspection methods and using alignment angle readings to ensure complete and accurate damage analysis
- Locate and identify damaged steering and suspension parts prior to wheel alignment inspection