



PROJECT D

Autobody Repair

SECONDARY and POST-SECONDARY

MEASURING AND DAMAGE ANALYSIS TASK SHEET

Duration of project: 1 hour

This section will determine the competitor's ability to retrieve vehicle specification information use measuring equipment, vehicle specification sheets, and knowledge of vehicle damage analysis.

D-1.1.1-5 Information retrieval using Car-O-Liner equipment. An orientation will be provided on the Car-O-Liner

D-2.1 **Measuring locations #1:** Take and record measurements, at eight underbody control point locations. First pair of measuring locations will be the "Zero Points" as determined by the Car-O-Liner software. The second set will be the front of the vehicle "Center Section" or front "Torque Box" locations. Note: a fifth random point may be needed to complete the software requirements. Four more measuring points will then be taken to measure the remaining control points, two at the front and two at the rear. The competitor will be provided with the necessary Car-O-Liner frame measuring:

1. Measuring slide and pod
2. Frame spec software

The competitor must match the following terms to the definitions.

1. _____ rails are out of parallel when viewed from the side
2. _____ rail has buckles on all side's length is shortened
3. _____ rail has lateral misalignment; buckles are on one side of rail only
4. _____ rails are in a parallelogram shape when viewed from the bottom
5. _____ rail has datum misalignment, buckles on top or bottom of rail only

Term list – a) Side sway, b) Sag, c) Mash, d) Twist, e) Diamond

D-2:

Measuring locations #2:

The competitor will be provided with frame measuring equipment such as:

1. Tape measure and tram bar frame measuring equipment
2. Clipboard, assessment sheets, and pencil
3. Frame spec sheet of underhood section

