



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 identification 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.
- 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.
- Further measuring points may need to be taken to accurately capture and assess vehicle accident damage

The competitor will be provided with the necessary Car-O-Liner frame measuring:

1. Measuring slide and pod
2. Frame spec software

**D-2.2:** Using the Car-O-Liner under body measurements taken in D-2.1, provide a written description of the damage found. Be sure to use appropriate frame condition terminology and distances.

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**D-2.3:**

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-3:**

**Measuring locations #2:**

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

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

**D-3.1:** Competitor must calibrate the measuring device.

**D-3.2:** Take measurements at 4 pre-determined points as highlighted on the under-hood specification sheet.

