

### AV Electrical Testing.

Date:

Your first name:

Your last name:

Owner first name:

Owner last name:

Vehicle make:

Vehicle model:

Vehicle year:

Vehicle engine:

**Objective:** This activity is designed for you to become familiar with the tools, equipment, and procedures required when performing electrical testing on ADAS components and/or related systems.

#### Tools and Equipment:

- Lab.
- Vehicle equipped with ADAS.
- Necessary tools and equipment according to SI.

**Instructions:** In this activity you will perform applicable electrical testing for ADAS components or related systems.

**Component Information:**

- Choose an ADAS component or related system on which to perform testing.

- What is the purpose of the component selected?

- Does the component serve other systems and if so, which ones?

**Voltage Testing:**

- Perform the manufacturer-specified test to measure voltage for the component:

- Connector #

- Terminal #

- Circuit #

- Wire color:

- Voltage:

- Referenced to:

(Ground, Voltage, another terminal.

- As specified?

- If the voltage reading was too low, what would be your next steps?

- How can low voltage affect an ADAS component or related system?

### Current Testing:

- Perform the manufacturer-specified tests to measure current for the component:

- Procedure used:

- Connector #

- Terminal #

- Circuit #

- Wire color:

- Current:

- If the measured current was too high, what would be your next steps?

- How could high current affect an ADAS component or related system?

### Voltage Drop Testing:

- Perform the manufacturer-specified tests to measure voltage drop for the component:
  - Connector #
  - Terminal #
  - Circuit #
  - Wire color:
  - Voltage:
  - Referenced to:  (Ground, Voltage, another terminal.)
  - As specified?
- If the measured voltage drop was too high, what would be your next steps?
- How might an incorrect voltage measurement procedure affect an ADAS component or related system?

### Continuity and Resistance Testing:

- Perform the manufacturer-specified tests to measure continuity and resistance for the component:
  - Connector #
  - Terminal #
  - Circuit #
  - Wire color:
  - Resistance:
  - Connector #
  - Terminal #
  - Circuit #
  - Wire color:
  - Continuity:
  - Referenced to:  (Ground, Voltage, another terminal.)
  - As specified?

- If measured resistance was too low, what would be your next step(s)?

- If the measured resistance is not correct, how can this affect the ADAS component or related system?

**Conclusion:**

- What meter did you use to perform the tests?

- What settings did you use on the meter?

Instructor approval and comments: