

# Vehicle Practice

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## PARTS REPLACEMENT NEW & USED AND MODIFICATIONS – AERIAL DEVICES

Practice:

This practice applies to all critical components of **aerial devices** (per CSA-C225). **OEM** refers to **Original Equipment Manufacturer**.

### 1. Replacement Parts (New/Reconditioned)

When parts or components are replaced for any reason, they shall be identical in specification and function to the original aerial device parts or components or shall provide an equal or greater factor of safety as determined by the OEM or a qualified Professional Engineer. See Note below.

### 2. Replacement Parts (Used)

If “previously used” parts are to be stored for future reuse, example rotation gear box, outrigger legs, cylinders, etc., the item shall be tagged with the following information - original vehicle number; year, model, serial number, and make of aerial device; last time item was inspected, and date it was put on shelf for storage. Prior to installation, “previously used” parts shall be inspected. Only used parts that are identical in specification, function, and fall within OEM guidelines for wear and tolerance, can be used. The installation of used parts must be authorized by the NSPI Garage Supervisor. See Note below.

### 3. Modifications

No modifications or additions which affect the stability, mechanical, hydraulic or electrical integrity or the safe operation of the aerial device shall be made without the written approval of the OEM. If such modifications or changes are made, the capacity, operation and maintenance instruction markings shall be changed accordingly. In no case shall the safety factors be reduced below those specified by the manufacturer's design safety factors.

**Note:** Specifications for replaced or modified parts or components must be obtained from the OEM. Should the OEM no longer exist, a qualified Professional Engineer will produce the required specifications.

If critical parts or components are obtained from a source other than the OEM, the source must provide engineering certification that the part or component meets or exceeds the specification and/or the governing standard.

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*Fleet Services*

