



## FIX-N-FAX

(No.133 September 2011)

**Equipment Standard**

No. 148

**Mandatory Compliance**

Revised: October 1989

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### **Emergency Warning Devices (All Code 3-Equipped Vehicles)**

The intent of this Fix-N-Fax is to increase visibility of emergency vehicle warning lights and to reduce interior cab noise on all CAL FIRE owned or operated vehicles that are currently in service. When emergency warning device equipment is modified from its original configuration, the vehicle's optical and audible warning device package shall meet the minimum standard for "fire apparatus" as described in the current National Fire Protection Association, (NFPA) Standard for Automotive Fire Apparatus 1901. This minimum standard includes upper and lower optical zones that will require more than just a light bar. The NFPA standard design is based on vehicle size. When preparing to modify a code 3-equipped vehicle, review NFPA Standard 1901 to insure that the minimum requirements are met.

All siren speakers shall be removed from roof-top mounting and installed in the general front bumper area. The siren speaker shall utilize either a 100 watt driver or an existing driver with a "Y" adapter, whichever equals or exceeds the minimum 100 watt requirement.

When roof- top light bar and lower zone lighting is to be installed, it shall be a current make and model being utilized by the department. The local Region Fleet manager shall be consulted before a light bar is procured to insure the correct make and model is purchased. The Davis Equipment Facility may have the necessary lighting and equipment in stock or there may be a current contract that can be utilized in the acquisition.

An electronic emergency system controller will be required to provide an audible warning device and control emergency optical warning devices. The controller shall be configured as follows:

1. On the emergency system controller slide switch, the # 1 position will power all amber lighting.
2. The # 2 position will power all lighting in position #1 and all forward and side facing red lighting.
3. The # 3 position will power all devices powered in positions # 1 and 2 and rotators on the mechanical style light bars, allow the siren to sound and allow an optional high beam headlight wig wag.

A high-beam headlight wig-wag device is an approved local optional accessory. It shall be installed as follows:

1. Consult the local Region Fleet Manager for the current make and model.
2. Install per manufacturer's instructions.
3. Wire the device into the high beam headlights only.
4. Install the device to operate in electronic emergency system controller position "3" only.
5. Provide the device with a switch to independently turn the device on and off.

The Unit Fleet Manager shall have oversight and approve all installations and mountings. The Unit Fleet Manager may request advice, assistance and resource information from the Region Fleet manager.

Any deviation from this policy will be considered a **vehicle modification** and must have prior written approval as directed in the [Mobile Equipment Management Procedures Handbook Section 6820](#).

[\(see FIX-N-FAX INDEX\)](#)