

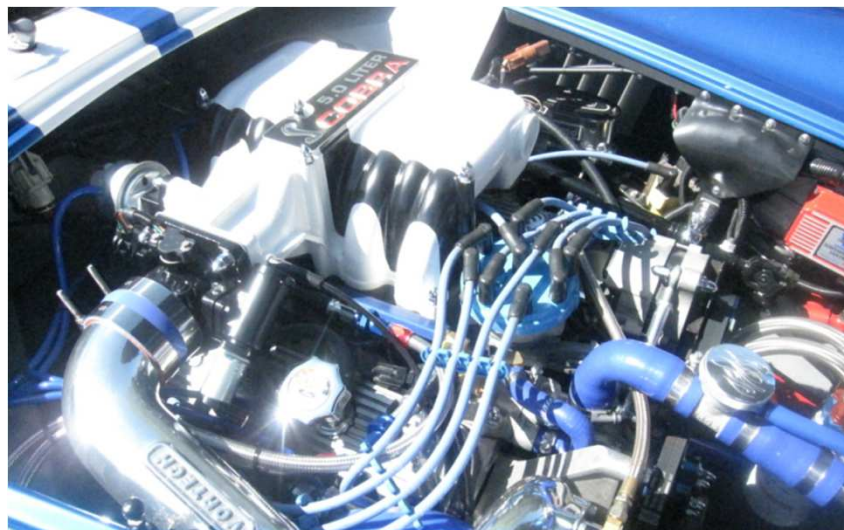


# Certification for Engines for Specially Constructed Vehicles

California Air Resources Board  
November 17, 2011  
Byron Sher Auditorium

# Outline

- Background
- Regulatory Process
- Staff's Proposed Certification Procedures
- Summary and Staff Recommendation



## Background: SPCNS Definition

- a vehicle built for private use, not for resale, and not constructed by a licensed manufacturer or remanufacturer.
- may be built from:
  - (1) a kit;
  - (2) new or used, or a combination of parts; or
  - (3) a vehicle reported for dismantling, which, when reconstructed, does not resemble the original vehicle



## Background: Kit Cars (SPCNS)

- Hobby-driven market
- Thousands of kit cars currently registered in California
- Integral part of California's car culture



## Background:

### Certificate of Sequence (SB 100) Process

- 500 new SPCNS per year allowed to be registered in CA
- Exempt from Smog Check
- Every year since its creation in 2001, all 500 certificates have been handed out

# Background: Issues Surrounding Kit Cars

- Registration circumvention (Amnesty program)
- Kit Cars are high emitters
- Currently, no ARB mechanism to certify a lower emission solution



1 Uncontrolled SPCNS



30 Modern Vehicles

\*emissions are calculated on a per mile basis

# Purpose for Rulemaking

- Allow engine manufacturers to certify clean engines for kit cars
- Create a path to help deal with registration circumvention
- Staff's Proposal...
  - Cleaner engine choice
  - Ensures proper installation instructions
  - Allows for legal registration of kit cars in years the SB100 certificates of sequence are used up

# Regulatory Development Process

- Began in Spring 2011
- 2 Public Workshops – Sacramento (May) and El Monte (July)
  - Engine manufacturers, car hobbyists, engine installers, and *SEMA*
- Outreach to California engine installers and hobbyist publications
- Other State agencies:
  - Bureau of Automotive Repair (BAR), Department of Motor Vehicles, and California Highway Patrol



# Staff's Proposal: Overview

- Provides a new way for engine manufacturers to certify engines
- Helps ensure engines are installed properly
- Gives hobbyists a low-emitting engine option



# Staff's Proposal: Engine Manufacturer Requirements

- Low-emitting engine package
  - Meet current exhaust and evaporative standards for new vehicles
  - Emissions controls
  - On-board diagnostics (OBD) system
- Emissions test data based on a worst case vehicle
  - Can use data from previously certified vehicle
- Installation instructions
- Label
- Warranty

# Staff's Proposal: Engine Installer Requirements

- **Installer Definition**
  - Installs a certified engine package in a specially constructed vehicle for compensation
- **Install per manufacturer instructions**
  - Affidavit, reporting and recordkeeping to enable warranty claims and recalls
- **Installation Warranty**
  - 1 year/12,000 mi warranty



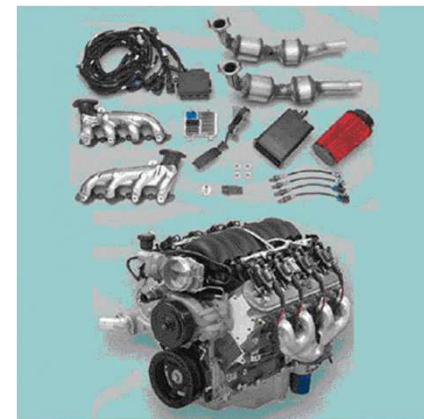
## Staff's Proposal: Hobbyist Requirements

- Install ARB certified engine package per manufacturer's instructions
- Take to referee station where referee inspects:
  - Ensures vehicle is low-pressure evap test capable
  - Functional Check Engine Light
  - Engine installed per manufacturer's specifications
- Submits warranty card to manufacturer



# 15-Day Modifications

- Incorporate forthcoming light-duty vehicle emission standards
  - To be considered by the board in January
- Incorporate BAR Automotive Repair Dealer definitions
- Corrections/clarifying changes



## Summary and Staff Recommendation

- Staff's proposed certification procedures...
  1. Account for the unique nature of SPCNS
  2. Allow manufacturers to certify light-duty engines
  3. Provide hobbyists a low-emitting engine option
- Adopt staff's proposal with additional recommendations

