

**Manufacturer's Pre Delivery Checklist for ARB Confirmatory Test Vehicle**

This document is available on the Internet at <http://www.arb.ca.gov/msprog/onroad/cert/hmctcp/precheck.pdf>

Certifying Manufacturer: \_\_\_\_\_ Engine Family: \_\_\_\_\_

Certification Category (check one): \_\_\_ONMC \_\_\_OFMC \_\_\_ATV \_\_\_OFRUV \_\_\_OFRSV \_\_\_SC

**Test vehicle arriving at ARB not prepared or ready for testing may not be admitted.**  
**Drain fuel tank(s) before shipping test vehicle to ARB laboratory (including local shipping).**  
**Contact ARB certification staff 1 - 3 business days before vehicle arrival at ARB laboratory.**

Vehicles delivered for ARB confirmatory testing must be prepared and ready for testing, e.g., fuel tank heating devices (e.g., heating blanket/strips) and instrumentation properly installed *and successfully validated*, battery fully charged, unique test adaptors or apparatus provided. *A completed and signed checklist, must be provided to ARB certification staff prior to, or concurrently with, vehicle arrival at ARB.* See the bottom of page 2.

Test vehicle should be shipped on standard pallet that can be moved by the delivery person to the back of delivery truck for access by ARB forklift. ARB personnel are not authorized to be aboard delivery truck or assist in handling any truck freight. *There is no loading dock at ARB laboratory.*

The shipping address is:	Delivery dates and times are:	Upon delivery:
California Air Resources Board Haagen-Smit Laboratory 9528 Telstar Avenue El Monte, CA 91731	Monday through Friday, except CA State holidays. 8:30 am through 3:30 pm, local time.	The delivery personnel may contact your ARB certification staff, or Vehicle Coordination office at (626) 575-6823.

**CHECK ALL APPLICABLE (NA = not applicable. Describe\* = describe or attach as appropriate)**

**Owner's Operating Manual Provided (if available):** \_\_\_NA \_\_\_YES  
**Production Vehicle Used For Confirmatory Testing, Vehicle Test Log Provided:** \_\_\_NA \_\_\_YES  
**Special Test Procedure:** \_\_\_NA \_\_\_YES (ARB Reference No. Approval \_\_\_\_\_)  
 \_\_\_Extra fan/cooling needed: Schematic/instructions for extra fan/cooling provided: \_\_\_NA \_\_\_YES.  
 \_\_\_Test vehicle cannot follow required speed trace (i.e., needs WOT): \_\_\_Attach actual speed trace.  
 \_\_\_Other/Describe\*: \_\_\_\_\_  
**Special Starting Procedure:** \_\_\_NA \_\_\_YES (ARB Reference No. Approval \_\_\_\_\_)  
 Describe\*: \_\_\_\_\_  
**Unique Test Adaptor(s) or Apparatus Provided:** \_\_\_NA \_\_\_YES/Describe\*: \_\_\_\_\_  
**Special Equipment for Test Vehicle Preparation Provided:** \_\_\_NA \_\_\_YES/Describe\*: \_\_\_\_\_  
**Fuel System:** \_\_\_Fuel Injection \_\_\_Carburetor with Adjustable Parameters: \_\_\_Attach Picture(s)  
 showing all adjustable parameters & their anti-tampering devices.  
**Vehicle Dimensions (in\_\_ or cm \_\_):** Length\_\_\_ Width\_\_\_ Height\_\_\_ Track\_\_\_ Wheelbase\_\_\_  
**Tires (flat tire unacceptable): Drive Wheel Tires:** Width: \_\_\_ inches. Pressure: \_\_\_ psi \_\_\_ or kPa\_\_\_  
**Shift Schedule (man. trans. only):** \_\_\_Standard [per CFR 86.528-78(h)] or \_\_\_Alternate/Describe below

		Shift Point (km/hr)				
		1 <sup>st</sup> -2 <sup>nd</sup>	2 <sup>nd</sup> -3 <sup>rd</sup>	3 <sup>rd</sup> -4 <sup>th</sup>	4 <sup>th</sup> -5 <sup>th</sup>	5 <sup>th</sup> -6 <sup>th</sup>
ARB Reference No. Approval Of Alternate Shift Schedule: _____	Upshift (gear)					
	Speed (km/hr)					
	Downshift (gear)	2 <sup>nd</sup> -1 <sup>st</sup>	3 <sup>rd</sup> -2 <sup>nd</sup>	4 <sup>th</sup> -3 <sup>rd</sup>	5 <sup>th</sup> -4 <sup>th</sup>	6 <sup>th</sup> -5 <sup>th</sup>
	Speed (km/hr)					

**ATV, OFRUV, OFRSV and SC Specifics (applicable only if certified under engine test option.)**

\_\_\_Adaptor for engine dynamometer provided. \_\_\_Engine cooling provided.

**For Evaporative Test Specifics, See Page 2.**

**Manufacturer's Pre Delivery Checklist for ARB Confirmatory Test Vehicle**

**(Continued)**

**Manufacturer Vehicle Checklist for Evaporative Emissions Testing**

**Evaporative Test Specifics.**

- U.S. Type J T/Cs and connectors are installed.
- Heating devices properly installed *and successfully validated*.
- Attach Temperature Profiles (fuel & vapor) for diurnal heat build *as performed on delivered test vehicle*. Profiles meets test procedures:  YES  NO. Date Conducted \_\_\_\_\_
- Adaptor(s) provided if heating devices use non-United States standard 3- or 2-prong 120V plug.

The Air Resources Board's (ARB's) motorcycle confirmatory evaporative test procedure requires that the liquid fuel and fuel vapor be heated and their temperatures monitored and kept within specified limits. The test vehicle fuel tank shall be heated with two separate and independently controlled heat sources. One source must provide heat to the liquid fuel residing in the lower half of the fuel tank. The second source must provide heat to the fuel vapor residing in the upper half of the fuel tank. (Please refer to the 40 CFR 86.107-78 and 86.107-90 for details.)

The manufacturer must provide and comply with the following:

- 1) Fuel and fuel vapor heating blankets are to be securely adhered to the test vehicle's fuel tank prior to vehicle delivery to the ARB. The manufacturer's heating blankets must not exceed 20 Amp current rating and must use standard 120 Volt plugs to connect to ARB's outlets pictured in Figure 1.
- 2) With the heating blankets positioned on the fuel tank, the manufacturer must achieve a successful heat build diurnal. The ARB will not reposition the heat blanket if an unsuccessful heat build occurs during confirmatory testing. Prior to delivering the test vehicle to the ARB, the manufacturer must provide the ARB with test data indicating that a successful diurnal heat build was achieved with the blankets positioned as-delivered to the ARB
- 3) Fuel and fuel vapor thermocouples with J-type connectors must be installed to monitor the fuel and fuel vapor temperature. Figure 2 shows the required thermocouple connector.



Figure 1



Figure 2

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Manufacturer's Authorized Representative Completing Pre-Delivery Checklist:

**Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_ **Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_