

Manufacturer's Pre Delivery Checklist for ARB Confirmatory Test Vehicle

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 3.

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:	Delivery coordination:
California Air Resources Board Mary D. Nichols Campus 4001 Iowa Avenue Riverside, California 92507	Monday through Friday, except CA State holidays. 8:30 am through 3:30 pm, local time.	The delivery must be coordinated with your ARB certification staff.

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 st -2 nd	2 nd -3 rd	3 rd -4 th	4 th -5 th	5 th -6 th
ARB Reference No. Approval Of Alternate Shift Schedule: _____	Upshift (gear)					
	Speed (km/hr)					
	Downshift (gear)	2 nd -1 st	3 rd -2 nd	4 th -3 rd	5 th -4 th	6 th -5 th
	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 Test Article Specifications and Test Parameters, See Page 2.

Manufacturer's Pre Delivery Checklist for ARB Confirmatory Test Vehicle

(Continued)

Fill out the test article specifications and test parameters applicable to the test vehicle being delivered to ARB in the table below:

Test Article Specifications and Test Parameters	
Parameter	Test Article Information
Test Article (Year/Make/Model):	
Test Article VIN or other ID:	
Engine Family being Confirmatory Tested:	
Test Vehicle's Engine Family:	
Emission Standard:	
Family Emission Limit:	
Drive Modes to be Tested:	
Certification Test Fuel:	
Engine Displacement (cc):	
Vehicle Class:	
Idle Speed (RPM):	
Transmission:	
Maximum vehicle speed (km/hour)	
Tire Size:	
Drive Wheel Tire Pressure (psi):	
Loaded Vehicle Mass (kg):	
Equivalent Inertia Mass (kg):	
Canister Volume (l)	
Canister Working Capacity (g)	
Target/Force Coefficients:	
A (nt)	
C (nt/(km/h)²)	
Fuel Tank Capacity (liters):	
50% Fuel Tank Capacity (liters):	

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(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

Manufacturer's Authorized Representative Completing Pre-Delivery Checklist:

Name: _____ Title: _____ Signature: _____ Date: _____