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01/30/17

## Autonomous Vehicles

The purpose of this bulletin is to provide guidance when encountering Autonomous Vehicles (AV) being driven on public roads.

California Vehicle Code § 38750 defines an "Autonomous Vehicle" as any vehicle equipped with autonomous technology that has been integrated into that vehicle. "Autonomous technology" is defined as technology that has the capability to drive a vehicle without the active physical control or monitoring by a human operator. An autonomous vehicle may be operated in autonomous mode on public roads for testing purposes. If the vehicle is not in autonomous mode, it is not considered to be for "testing" purposes and therefore, the following does not apply.

In order to operate an AV in autonomous mode on public roads, the manufacturer that equips the vehicle with autonomous technology at the time the vehicle is originally completed, or owner who modifies the vehicle by installing autonomous technology to convert it to an autonomous vehicle after the vehicle was originally manufactured, must have a permit for autonomous operation issued by the California Department of Motor Vehicles. DMV also issues a permit for each authorized driver that the driver is required to have in possession when driving the AV in autonomous mode.

A copy of the three below listed and attached permits is required to be kept in the vehicle during autonomous mode operation. These permits are not required if the vehicle is not operated in autonomous mode.

- OL 313 indicates that the driver of the vehicle is permitted.
- OL 314 indicates that the vehicle is permitted for testing operation.
- OL 315 indicates that the manufacturer is permitted for testing.

If, during the course of a traffic stop for a moving violation, you are able to reasonably determine that the vehicle was being operated autonomously, you may ask the driver to present the necessary DMV documentation for AV operation. If the driver does not present the necessary documentation and is also the owner of the vehicle, a citation may be issued per 38750 (b) (3) CVC - AV Testing W/O License and Insurance. (Cite 38750 (b) (3) CVC as an infraction.) If the driver is not the owner of the vehicle, a separate owner's responsibility citation may be issued. Do not have the driver sign this citation. Check the owner's responsibility box and write "owner's responsibility" in the driver's signature box. Give the driver the driver's copy of the citation and submit the Court copy as usual.

The driver/operator will always be cited for the initial moving violation, regardless if it was in autonomous mode, because they are responsible for obeying all traffic laws. If the vehicle is determined to be in autonomous mode and the operator cannot provide the required DMV documents, then an owner's responsibility citation may be issued.

The driver is always cited for the initial moving violation. Do not issue an owner's responsibility citation for a moving violation.

Do not effect a traffic stop for the sole purpose of determining if the required AV permit is issued.

  
WILLIAM SCOTT  
Chief of Police



## AUTONOMOUS VEHICLE TESTING (AVT) PROGRAM TEST VEHICLE PERMIT

**NOTICE:** This permit must be kept in the vehicle or in possession at all times when operating an autonomous vehicle.

### SECTION 1 — TYPE OF VEHICLE

Auto                       Commercial

VEHICLE IDENTIFICATION NUMBER	LICENSE PLATE NUMBER	MAKE	YEAR MODEL
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### SECTION 2 — MANUFACTURER INFORMATION

MANUFACTURER NAME	AVT NUMBER
BUSINESS ADDRESS	
CITY	STATE      ZIP CODE

### SECTION 3 — ACKNOWLEDGEMENT

The autonomous vehicle is being operated on roads in this state solely by employees, contractors, or other persons designated by the manufacturer of the autonomous technology.

The autonomous vehicle has a mechanism to engage and disengage the autonomous technology that is easily accessible to the operator.

The autonomous vehicle has a visual indicator inside the cabin to indicate when the autonomous technology is engaged.

The autonomous vehicle has a system to safely alert the operator if an autonomous technology failure is detected while the autonomous technology is engaged, and when an alert is given, the system shall require the operator to take control of the autonomous vehicle or if the operator does not or is unable to take control of the autonomous vehicle, the autonomous vehicle shall be capable of coming to a complete stop.

The autonomous vehicle shall allow the operator to take control in multiple manners, including, without limitation, through the use of the brake, the accelerator pedal, or the steering wheel, and it shall alert the operator that the autonomous technology has been disengaged.

The autonomous vehicle's autonomous technology meets Federal Motor Vehicle Safety Standards for the vehicle's model year and all other applicable safety standards and performance requirements set forth in state and federal law and the regulations promulgated pursuant to those laws.

The autonomous vehicle has a separate mechanism, in addition to, and separate from, any other mechanism required by law to capture and store the autonomous technology sensor data for at least 30 seconds before a collision occurs between the autonomous vehicle and another vehicle, object, or natural person while the vehicle is operating in autonomous mode. The autonomous technology sensor data shall be captured and stored in a read-only format by the mechanism so that the data is retained until extracted from the mechanism by an external device capable of downloading and storing the data. The data shall be preserved for three years after the date of the collision.

### SECTION 4 — CERTIFICATION

***I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.***

PRINTED NAME	TITLE	AREA CODE/TELEPHONE NUMBER
SIGNATURE		DATE
<b>X</b>		

**NOTICE:** This permit enables the above described vehicle to operate in the capacity as an AVT vehicle.

ISSUING OFFICE	DATE
ISSUING EMPLOYEE'S PRINTED NAME	ISSUING EMPLOYEE'S SIGNATURE
	<b>X</b>



### AUTONOMOUS VEHICLE TESTING (AVT) PROGRAM TEST VEHICLE OPERATOR PERMIT

A Public Service Agency

**NOTICE:** This permit must be kept in the vehicle or in possession at all times when operating an autonomous vehicle.

#### SECTION 1 — OPERATOR INFORMATION

NAME (LAST, FIRST, MIDDLE)		DRIVER LICENSE NUMBER	
ADDRESS			
CITY		STATE	ZIP CODE

#### SECTION 2 — MANUFACTURER INFORMATION

MANUFACTURER NAME		AVT NUMBER	
BUSINESS ADDRESS			
CITY		STATE	ZIP CODE

This permit enables the above described individual to operate in the capacity as an AVT operator.

ISSUING OFFICE		DATE
ISSUING EMPLOYEE'S PRINTED NAME	ISSUING EMPLOYEE'S SIGNATURE	

See the back of this permit for Acknowledgement and Certification for the operation of an Autonomous Vehicle.

OL 314 (NEW 8-2013) UH REGS

#### SECTION 3 — ACKNOWLEDGEMENT

The operator of an autonomous vehicle will possess the proper class of license for the type of vehicle being operated.

The autonomous vehicle will be operated on roads in this state solely by employees, contractors or other persons designated by the manufacturer of the autonomous technology.

The driver shall be seated in the driver's seat, monitoring the safe operation of the autonomous vehicle, and capable of taking over immediate manual control of the autonomous vehicle in the event of an autonomous technology failure or other emergency.

Prior to the start of testing in this state, the manufacturer performing the testing has obtained an instrument of insurance, surety bond or proof of self-insurance in the amount of five million dollars, and has provided evidence to the department.

#### SECTION 4 — CERTIFICATION

*I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.*

PRINTED NAME	TITLE	AREA CODE/TELEPHONE NUMBER ( )
SIGNATURE	DATE	

This permit enables the above described individual to operate in the capacity as an AVT operator.

ISSUING OFFICE		DATE
ISSUING EMPLOYEE'S PRINTED NAME	ISSUING EMPLOYEE'S SIGNATURE	

OL 314 (NEW 9-2013) UH REGS



## AUTONOMOUS VEHICLE TESTING (AVT) PROGRAM MANUFACTURER PERMIT

**NOTICE:** This permit must be kept in the vehicle or in possession at all times when operating an autonomous vehicle.

### SECTION 1 — TYPE OF VEHICLE

Auto             Commercial

### SECTION 2 — MANUFACTURER INFORMATION

MANUFACTURER NAME	AVT NUMBER
BUSINESS ADDRESS	
CITY	STATE      ZIP CODE

### SECTION 3 — ACKNOWLEDGEMENT

The manufacturer performing the testing will maintain an instrument of insurance, surety bond, or proof of self-insurance in the amount of five million dollars.

The autonomous technology satisfies all of the following requirements:

- The autonomous vehicle has a mechanism to engage and disengage the autonomous technology that is easily accessible to the operator.
- The autonomous vehicle has a visual indicator inside the vehicle to indicate when the autonomous technology is engaged.
- The autonomous vehicle has a system to safely alert the operator if an autonomous technology failure is detected while the autonomous technology is engaged, and when an alert is given, the system shall require the operator to take control of the autonomous vehicle or if the operator does not or is unable to take control of the autonomous vehicle, the autonomous vehicle shall be capable of coming to a complete stop.

The autonomous vehicle allows the operator to take control in multiple manners, including, without limitation, through the use of the brake, the accelerator pedal, or the steering wheel, and it alerts the operator that the autonomous technology has been disengaged.

The autonomous vehicle's autonomous technology meets Federal Motor Vehicle Safety Standards for the vehicle's model year and all other applicable safety standards and performance requirements set forth in state and federal law and the regulations promulgated pursuant to those laws.

### SECTION 4 — CERTIFICATION

***I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.***

PRINTED NAME	TITLE	AREA CODE/TELEPHONE NUMBER (      )
SIGNATURE <b>X</b>		DATE

**This permit enables the above described entity to operate in the capacity as an AVT manufacturer.**

ISSUING OFFICE	DATE
ISSUING EMPLOYEE'S PRINTED NAME	ISSUING EMPLOYEE'S SIGNATURE <b>X</b>