§ 227.00. Purpose.

(a) The regulations in this article implement, interpret and make specific Division 16.6 (commencing with section 38750) of the Vehicle Code, originally added by Statutes of 2012, Chapter 570 (SB 1298), providing for the regulation of autonomous vehicles operated on public roads in California.

(b) A motor vehicle shall not be operated in autonomous mode on public roads in California except as permitted under Vehicle Code section 38750 and the regulations in this article.

(c) This article shall become effective 120 days after the date of adoption by the department.


§ 227.02. Definitions.

As used in this article the following definitions apply:

(a) “Autonomous mode” means an autonomous vehicle, as defined by this article, that is operated or driven without active physical control by a natural person sitting in the vehicle’s driver’s seat. An autonomous vehicle is operating or driving in autonomous mode when it is operated or driven with the autonomous technology engaged.

(b) “Autonomous technology data recorder” is a mechanism, in addition to, and separate from, any other mechanism required by law, installed in an autonomous vehicle to record technical information about the status and operation of the vehicle’s autonomous technology sensors for 30 seconds prior to a collision and at least 5 seconds after a collision or until the vehicle comes to a complete stop.

(c) “Autonomous test vehicle” is an autonomous vehicle that is operated and properly permitted as required by this article for testing purposes.

(bd) “Autonomous vehicle” means any vehicle equipped with technology that has the capability of operating or driving the vehicle without the active physical control or monitoring of a natural person, whether or not the technology is engaged, excluding vehicles equipped with one or more systems that enhance safety or provide driver assistance but are not capable of driving or operating the vehicle without the active physical control or monitoring of a natural person. For the purposes of this article an “autonomous vehicle” meets the definition of Levels 3, 4, or 5 of the Society of Automotive Engineers’ Taxonomy and Definitions for Terms Related to On-Road Motor Vehicle Automated Driving Systems.
(e) “Autonomous vehicle test driver” means a natural person seated in the driver’s seat of an autonomous vehicle, whether the vehicle is in autonomous mode or conventional mode, who possesses the proper class of license for type of vehicle being driven or operated, and is capable of taking over active physical control of the vehicle at any time.

(d) “Conventional mode” means the vehicle is under the active physical control of a natural person sitting in the driver’s seat operating or driving the vehicle with the autonomous technology disengaged.

(g) “Deployment” means the operation of an autonomous vehicle on public roads by members of the public who are not employees, contractors, or designees of a manufacturer or other testing entity.

(e) “Designee” means the natural person identified by the manufacturer to the department as an autonomous vehicle test driver person authorized by the manufacturer to drive or operate the manufacturer’s autonomous vehicles on public roads.

(i) “Driver” means the human operator of an autonomous vehicle when it is not operating in the autonomous mode.

(j) “Dynamic driving task” means all of the real-time functions required to operate a vehicle in on-road traffic, excluding selection of final and intermediate destinations, and including without limitation: object and event detection, recognition, and classification; object and event response; maneuver planning; steering, turning, lane keeping, and lane changing, including providing the appropriate signal for the lane change or turn maneuver; and acceleration and deceleration.

(f) “Manufacturer” means a manufacturer of autonomous technology as defined in Vehicle Code section 38750 (a)(5) and includes a vehicle manufacturer as defined in Vehicle Code section 672 that produces an autonomous vehicle from raw materials or new basic components; and, a person as defined in Vehicle Code section 470 who modifies any vehicle by installing autonomous technology.

(l) “Operational Design Domain” is the specific operating domain(s) in which an automated function or system is designed to properly operate, including but not limited to roadway type, speed range, environmental conditions (weather, daytime/nighttime, etc.), and other domain constraints.

(m) “Public road” means “highway” as defined in Vehicle Code section 360, “offstreet public parking facility” as defined in Vehicle Code section 4000, and “street” as defined in Vehicle Code section 590.

(n) “Remote operator” is the person that engages a vehicle’s autonomous technology but is not sitting in the vehicle.

(o) “Testing” means the operation of an autonomous vehicle on public roads by employees, contractors, or designees of a manufacturer for the purpose of assessing, demonstrating, and validating the autonomous technology’s capabilities.
§ 227.04. Requirements for a Manufacturer’s Testing Permit.

A manufacturer may conduct testing of autonomous vehicles on public roads in California if all of the following requirements are met:

(a) The manufacturer is conducting the testing.

(b) The vehicle is operated by an autonomous vehicle test driver who is an employee, contractor, or designee of the manufacturer, who has been certified by the manufacturer to the department as competent to operate the vehicle and has been authorized by the manufacturer to operate the vehicle.

(c) The manufacturer has in place and has provided the department with evidence of the manufacturer’s ability to respond to a judgment or judgments for damages for personal injury, death, or property damage arising from the operation of autonomous vehicles on public roads in the amount of five million dollars ($5,000,000), in the form of: an instrument of insurance issued by an insurer admitted to issue insurance in California; a surety bond issued by an admitted surety insurer or an eligible surplus lines insurer, and not a deposit in lieu of bond; or a certificate of self-insurance.

(d) The manufacturer certifies that testing will be conducted in accordance with the National Highway Traffic Safety Administration’s “Vehicle Performance Guidance for Automated Vehicles.”

(d)(e) The manufacturer has applied for and the department has issued to the manufacturer a Manufacturer’s Testing Permit to conduct autonomous vehicle testing on public roads in California.


A manufacturer’s obligation to provide evidence of an ability to respond to damages under Vehicle Code section 38750 is in addition to any other insurance obligation required by law.

§ 227.08. Instrument of Insurance.

A manufacturer may satisfy the requirement of Vehicle Code section 38750(b)(3) to provide evidence of financial responsibility to the department as a precondition of conducting testing of an autonomous vehicle on public roads by submitting evidence of the existence of an instrument of insurance as follows:

(a) The instrument of insurance is issued by an insurer admitted to sell the line of insurance under which the policy is issued or an eligible surplus lines insurer that meets the requirements of Insurance Code section 1765.1.

(b) The instrument of insurance specifies the name, National Association of Insurance Commissioner’s (NAIC) number, and the address of the insurer providing the policy to the manufacturer.

(c) The insurance policy insures the autonomous vehicles of the manufacturer.

(d) The instrument specifies the policy number and the effective date and the expiration date of the policy.

(e) The insurer certifies that the policy meets the requirements of Vehicle Code section 38750.


§ 227.10. Surety Bond.

A manufacturer may satisfy the requirement of Vehicle Code section 38750(b)(3) to provide evidence of financial responsibility as a precondition of conducting testing of autonomous vehicles on public roads by giving the department an instrument evidencing the existence of bond, as follows:

(a) The bond shall be issued by an admitted surety.

(b) The bond shall be in the penal amount of five million dollars ($5,000,000).

(c) The bond shall be conditioned that the surety shall be liable if the manufacturer, as principal, fails to pay any final judgment for damages for personal injury, death or property damage arising from an accident involving an autonomous vehicle operated by the manufacturer under Vehicle Code section 38750(b).

(d) The bond shall be subject to the Bond and Undertaking Law, Chapter 2 (commencing with Section 995.010), Title 14, Part 2, of the Code of Civil Procedure.

(e) The bond shall be considered a bond given as a condition of license or permit, shall be continuous in form, remain in full force and effect, and run concurrently with the manufacturer’s
authority to test vehicles on public roads under Vehicle Code section 38750 and any and all renewals or until cancellation or withdrawal of the surety from the bond.

(f) The bond shall be a bond, and not a deposit in lieu of bond.

(h) The bond shall be submitted to the department on the Autonomous Vehicle Manufacturer Surety Bond, form OL 317 (NEW 9/2013), which is hereby incorporated and has been approved by the California Attorney General under Government Code sections 11110 through 11113.


(a) A manufacturer insured by a policy of insurance shall at all times maintain in its autonomous test vehicles a copy of the proof of insurance provided by the insurance company.

(b) A manufacturer shall maintain in the its test vehicles at all times it is operated on public roads a copy of the bond, when the manufacturer relies upon a bond to comply with the requirements of Vehicle Code section 38750(b)(3).


(a) A manufacturer may satisfy the requirement of Vehicle Code section 38750(b)(3) to provide evidence of financial responsibility as a precondition of conducting testing of autonomous vehicles on public roads by applying to the department for and being issued a certificate of self-insurance. The application shall be submitted on the Autonomous Vehicle Tester Program Application for Certificate of Self-Insurance, form OL 319 (NEW 9/2013), which is hereby incorporated by reference.

(b) The manufacturer shall also submit with the application audited financial statements reflecting a net worth of not less than five million dollars ($5,000,000) for the three-year period immediately preceding the date of the application including, but not limited to, documents commonly known as balance sheets, profit and loss statements, explanatory notes or other documents which allow the department to determine the manufacturer’s net worth.

(1) When an applicant has not been in existence for three years prior to the date of the application, the department may accept a financial statement covering the period the applicant has been in existence.

(2) The manufacturer shall submit an opinion of the financial condition of the manufacturer rendered by an independent certified public accountant, and not an employee or a person with a financial interest in the manufacturer, licensed to audit financial statements and render an opinion as to the subject’s financial condition.
(c) The department shall not permit a manufacturer to operate under a certificate of self-insurance if its net worth is less than five million dollars ($5,000,000), or, if there are any outstanding unsatisfied final judgments against the manufacturer arising out of a motor vehicle accident.

(d) The department shall review the application. If the application is incomplete or insufficient, the department shall notify the manufacturer of the incompleteness or insufficiency and provide the manufacturer with a reasonable opportunity to cure the deficiencies. If the application is complete and the manufacturer meets all requirements for issuance, the department shall issue the manufacturer a certificate reciting that the manufacturer has permission from the department to satisfy the requirements of Vehicle Code section 38750(b)(3) by self-insurance.

(e) In the event the department receives information suggesting that the manufacturer no longer meets the requirements for permission to satisfy the requirements of Vehicle Code section 38750(b)(3) by self-insurance, the department may require additional evidence of the manufacturer’s ability to respond to damage, and the manufacturer shall be required to provide additional evidence.

(f) The department may cancel a certificate of self-insurance for any of the following reasons:

(1) The holder of the certificate has not provided the additional evidence required by subsection (e).

(2) Inability, refusal or failure of the holder of the certificate to submit financial statements and supporting documentation as required by subsection (b).

(3) The submission of fraudulent or incomplete documents.

(g) Any suspension, revocation, or other involuntary termination of the permission to satisfy the requirements of Vehicle Code section 38750(b)(3) shall be subject to the hearing requirements provided in these regulations for the suspension or revocation of permits or authorizations under Vehicle Code section 38750.


(a) A manufacturer shall not operate an autonomous test vehicle on public roads unless the manufacturer has provided the department, in writing, the identification of the autonomous vehicle to be used for testing on public roads. For each vehicle so identified, the manufacturer shall provide to the department all of the following:

(1) The make, model, and model year of the vehicle.

(2) The full vehicle identification number.
(3) The license plate number and state of issuance.

(b) Each document identifying autonomous vehicles for testing shall be signed by a person authorized by the manufacturer to bind the manufacturer, under penalty of perjury under the laws of the State of California.


§ 227.18. Requirements for Autonomous Vehicle Test Drivers.

A manufacturer shall not conduct testing of an autonomous vehicle on public roads unless the vehicle is operated or driven by an autonomous vehicle test driver who meets each of the following requirements:

(a) The autonomous vehicle test driver is either in immediate physical control of the vehicle or is actively monitoring the vehicle’s operations and capable of taking over immediate physical control.

(b) The autonomous vehicle test driver is an employee, contractor or designee of the manufacturer.

(c) The autonomous vehicle test driver shall obey all provisions of the Vehicle Code and local regulation applicable to the operation of motor vehicles whether the vehicle is in autonomous mode or conventional mode.

(d) The autonomous vehicle test driver knows the limitations of the vehicle’s autonomous technology and is capable of safely operating the vehicle in all conditions under which the vehicle is tested on public roads.


A manufacturer shall not allow any person to act as an autonomous vehicle test driver for testing autonomous vehicles on public roads unless all of the following have been met:

(a) The manufacturer has identified the autonomous vehicle test driver to the department in writing, providing the driver’s true full name and the driver’s license number and jurisdiction of issuance of the license and the autonomous vehicle driver has been issued an Autonomous Vehicle Testing (AVT) Program Test Vehicle Operator Permit, form OL 314 (NEW 9/2013), which is incorporated by reference.

(b) The manufacturer has certified to the department, for each autonomous vehicle test driver permitted by the manufacturer to operate its autonomous vehicles on public roads, that the driver meets all of the following requirements:
(1) The autonomous vehicle test driver has been licensed to drive a motor vehicle for the three years immediately preceding application to the department; and, at that time the driver:

(A) Did not have more than one violation point count determined as provided in subsections (a), (b), (c), (d), (e), (g), or (h) of Vehicle Code section 12810.

(B) Was not the at-fault driver of a motor vehicle involved in an accident that resulted in injury or death of any person.

(C) For the ten years immediately preceding application to the department was not convicted for driving or operating a vehicle under the influence of alcohol or any drug, and did not suffer any driver’s license suspension or revocation based on driving or operating any vehicle under the influence of alcohol or of any drug.

(2) The autonomous vehicle test driver has completed the manufacturer’s autonomous vehicle test driver training program and the date the driver completed the program.


§ 227.22. Autonomous Vehicle Test Driver Training Program.

A manufacturer conducting testing of autonomous vehicles on public roads shall maintain a training program for its autonomous vehicle test drivers and shall provide the department with a course outline and description of the autonomous vehicle test driver training program. The autonomous vehicle test driver training program shall include, but not be limited to the following:

(a) Instruction on the automated driving system technology to be tested in the manufacturer’s vehicles, including behind the wheel instruction provided by an experienced driver on the capabilities and limitations of the manufacturer’s automated driving systems.

(1) For purposes of this section, an “experienced driver” is one who has met the qualifications provided in Section 227.20, subsections (a) and (b)(1) of this Article and through training and experience has developed skill and knowledge in the operation of the manufacturer’s autonomous technology.

(b) Defensive driver training, including practical experience in recovering from hazardous driving scenarios.

(c) Instruction that matches the level of the autonomous test vehicle driver’s experience operating the specific type of automated driving system technology with the level of technical maturity of the automated system.

§227.24. Manufacturer’s Testing Permit.

(a) A manufacturer shall not conduct testing of an autonomous vehicle on public roads in California without having applied to the department for a permit to conduct testing, the department having issued a Manufacturer’s Testing Permit to conduct testing, and the permit being currently in full force and effect.

(b) A manufacturer shall not test autonomous vehicles on public roads unless the manufacturer has tested the autonomous vehicles under controlled conditions that simulate, as closely as practicable, the real world conditions that the manufacturer intends to subject the vehicles to on public roads and the manufacturer has reasonably determined that it is safe to operate the vehicles on public roads under those conditions.


§ 227.26. Manufacturer’s Testing Permit Application.

(a) A manufacturer desiring to conduct testing of autonomous vehicles on public roads in California shall submit an application for a permit to conduct testing to the department on Autonomous Vehicle Tester Program (AVT) Application for Manufacturer’s Testing Permit, form OL 311 (NEW 9/2013), which is hereby incorporated by reference.

(1) The manufacturer shall submit a fee of (To Be Determined) for the processing of the application which will permit the operation of up to 10 autonomous vehicles and up to 20 autonomous vehicle test drivers.

(2) The manufacturer may supplement the application with additional pages to add more than 10 vehicles and more than 20 drivers by submitting the fee of Fifty dollars ($50) for each additional set of 1 to 10 vehicles and 1 to 20 drivers.

(3) The manufacturer shall submit with the application a copy of the safety assessment letter submitted to the National Highway Traffic Safety Administration as specified in the “Vehicle Performance Guidance for Automated Vehicles.”

(b) Any changes or modifications to the Manufacturer’s Testing Permit required by the manufacturer during the term of the permit shall be accomplished by submitting a revised form OL 311 and submit the seventy dollars ($70) fee for the processing of the modification.


§ 227.28. Review of Application.

(a) The department shall review the Autonomous Vehicle Tester Program (AVT) Application for Manufacturer’s Testing Permit, and notify the manufacturer within 10 days of receipt of the application whether it is complete or it is determined to be deficient. The department shall approve an application and issue a Manufacturer’s Testing Permit after determining that the application is sufficient. The department shall approve an application and issue an Autonomous
Vehicle Testing (AVT) Program Manufacturer Permit, form OL 315, (NEW 9/2013), which is hereby incorporated by reference.

(b) The department shall notify the manufacturer of any deficiency and allow the manufacturer a reasonable period of time in which to correct the deficiency. The department will review material submitted to correct an application deficiency. If the department determines that the application remains deficient, the department shall notify the manufacturer/applicant of the continuing deficiency. The department shall deny an application if the manufacturer/applicant fails to make the application sufficient after a reasonable opportunity to do so.


§ 227.30. Term of Permit.

(a) Every Manufacturer’s Testing Permit issued under this article shall be valid for a period of one year from midnight of the last day of the month of issuance unless sooner revoked or surrendered. Renewal of the permit for the ensuing year may be obtained by the manufacturer to whom the permit was issued upon application to and approval by the department and payment of the fee required by subsection (b).

(b) Every application for renewal of a Manufacturer’s Testing Permit which expires pursuant to this section shall be made by the manufacturer to whom the permit was issued 60 days prior to the expiration date, and shall be made by submitting the completed renewal application form to the department and payment of the To Be Determined annual renewal fee.


§ 227.32. Enrollment in Employer Pull Notice Program.

(a) Prior to applying for a testing permit a manufacturer shall enroll in the Employer Pull Notice Program pursuant to Vehicle Code section 1808.1.

(b) If the manufacturer fails to enroll in the Employer Pull Notice Program the application for a testing permit shall be denied until the manufacturer provides proof that it has enrolled in the Employer Pull Notice Program.


§ 227.34. Prohibitions on Operation on Public Roads.

A manufacturer shall not permit any of its autonomous test vehicles to be operated on public roads in California:

(a) By a person other than one of its employees, contractors or designees who has been identified to the department as authorized by the manufacturer to operate the manufacturer’s autonomous vehicle.
(b) By a person not licensed to operate the appropriate class of vehicle to operate one of its autonomous vehicles.

(c) By a person who does not meet the requirements of Section 227.20 of this Article.

(d) When the operator is not seated in the vehicle’s driver seat and either: monitoring its operations and able to take over physical control of the vehicle; or, in physical control of the vehicle.

(e) When the manufacturer does not have in effect evidence or proof of financial responsibility as required by Vehicle Code section 38750 and these regulations and as required by Division 7 (commencing with section 16000) of the Vehicle Code.

(f) When the Manufacturer’s Testing Permit is revoked, suspended, expired, or otherwise not in full force and effect.


§ 227.36. Refusal, Suspension, Revocation of Testing Permit.

The department may refuse an application for a Manufacturer’s Testing Permit, or for the renewal of a Manufacturer’s Testing Permit, and may suspend or revoke a Manufacturer’s Testing Permit:

(a) For a violation of Vehicle Code section 38750 or this Article.

(b) For any act or omission of the manufacturer or one of its agents, employees, contractors or designees which the department finds makes the conduct of autonomous vehicle testing on public roads by the manufacturer an unreasonable risk to the public.


§ 227.38. Demand for Hearing after Refusal or Non-Renewal.

(a) Upon a refusal by the department to issue or renew a Manufacturer’s Testing Permit, the manufacturer shall be entitled to demand in writing a hearing before the director or his or her representative within 60 days after the notice of refusal.

(b) The hearing shall be conducted pursuant to the provisions of Chapter 5 (commencing with Section 11500) of Part 1 of Division 3 of Title 2 of the Government Code.


(a) The department may suspend or revoke the Manufacturer’s Testing Permit of any manufacturer for any of the following reasons:

(1) The manufacturer has failed to maintain financial responsibility in the amount required by Vehicle Code section 38570 and Sections 227.08, 227.10, or 227.14 of this Article.

(2) The manufacturer has allowed its autonomous vehicles to be operated on public roads by drivers or operators who are not employees, contractors or designees of the manufacturer, or who do not meet the requirements of Section 227.20 of this Article.

(3) The manufacturer’s autonomous vehicles have been operated on public roads without a driver or operator sitting in the driver seat capable of taking over immediate manual control of the vehicle at all times.

(b) The department will provide a 15-day written notice to the manufacturer before suspending the Manufacturer’s Testing Permit. However, the department shall immediately suspend the Manufacturer’s Testing Permit if a manufacturer is engaging in a practice in such a manner that immediate suspension is required for the safety of persons on the highway.


§ 227.42. Reinstatement of Testing Permit.

Upon the suspension of a Manufacturer’s Testing Permit by the department, the manufacturer shall cease all testing of autonomous vehicles on public roads until the department has verified that the manufacturer has taken appropriate action to correct the deficiencies that caused the suspension and the department has lifted the suspension.


§ 227.44. Reporting Accidents.

A manufacturer whose autonomous vehicle while operating under a Manufacturer’s Testing Permit is in any manner involved in an accident originating from the operation of the autonomous vehicle on a public road that resulted in the damage of property or in bodily injury or death shall report the accident to the department, within 10 days after the accident, on Report of Traffic Accident Involving an Autonomous Vehicle, form OL 316 (NEW 9/2013)(REV 9/2016) which is hereby incorporated by reference. The manufacturer shall identify on the form, by name and current address, if available, all persons involved in the accident, and a full description of how the accident occurred. Nothing in this section relieves any person from compliance with any other statutory and/or regulatory accident reporting requirements.

§227.46. Reporting Disengagement of Autonomous Mode.

(a) Upon receipt of a Manufacturer’s Testing Permit, a manufacturer shall commence retaining data related to the disengagement of the autonomous mode. For the purposes of this section, “disengagement” means a deactivation of the autonomous mode when a failure of the autonomous technology is detected or when the safe operation of the vehicle requires that the autonomous vehicle test driver disengage the autonomous mode and take immediate manual control of the vehicle.

(b) Every manufacturer authorized under this article to test autonomous vehicles on public roads shall prepare and submit to the department an annual report summarizing the information compiled pursuant to subsection (a) by January 1st, of each year.

   (1) The first report shall cover the period from the date of issuance of the Manufacturer’s Testing Permit to November 30th of the following year.

   (2) After the first report, subsequent annual reports shall cover the period December 1st of the current year to November 30th of the following year.

   (3) The annual report shall summarize disengagements for each month as follows:

      (A) The total number of autonomous mode disengagements and the circumstances or testing conditions at the time of the disengagements including:

         (i) The location: interstate, freeway, highway, rural road, street, or parking facility.

         (ii) A description of the facts causing the disengagements, including: weather conditions, road surface conditions, construction, emergencies, accidents or collisions, and whether the disengagement was the result of a planned test of the autonomous technology.

      (B) The total number of miles each autonomous vehicle tested in autonomous mode on public roads each month.

      (C) The period of time elapsed from when the autonomous vehicle test driver was alerted of the technology failure and the driver assumed manual control of the vehicle.

§ 227.48. Test Vehicle Registration and Certificates of Title.

(a) A person shall not drive, move, or leave standing an autonomous test vehicle upon public roads unless the department has been notified of its use pursuant to Section 227.16 of this Article.

(b) In addition to the requirements set forth in Vehicle Code section 4150, an application for original registration of an autonomous test vehicle shall include:

(1) The certificate of ownership or certificate of origination from the vehicle manufacturer as defined in Vehicle Code section 672.

(2) A written description of the autonomous technology or features integrated into the vehicle and the functional capabilities made possible by this technology.

(3) A Brake and Light Adjustment Certificate issued by an entity licensed by the California Bureau of Automotive Repair.

(4) An Emissions Certification issued by an entity licensed by the California Bureau of Automotive Repair or a permit issued pursuant to Health and Safety Code section 43014.

(c) In addition to the requirements set forth in Vehicle Code section 5902, an application for transfer of ownership of an autonomous test vehicle shall include:

(1) A written description of the autonomous technology or features integrated into the vehicle.

(2) A Brake and Light Adjustment Certificate issued by an entity licensed by the California Bureau of Automotive Repair.

(3) An Emissions Certification issued by an entity licensed by the California Bureau of Automotive Repair or a permit issued pursuant to Health and Safety Code section 43014.

(d) An autonomous test vehicle shall be identified as such on the face of the registration card and any certificate of ownership and the Autonomous Vehicle Testing (AVT) Program Test Vehicle Permit, form OL 313 (NEW 9/2013), which is incorporated by reference, issued by the department pursuant to this Article.


§227.50. Transfers of Interest or Title for an Autonomous Test Vehicle.

No person shall offer for sale, sell, transfer, or dispose of an autonomous test vehicle, or major component parts for such a vehicle that has been used for testing purposes on public roads except as follows:

(a) To a manufacturer holding a valid autonomous vehicle Manufacturer’s Testing Permit.
(b) The manufacturer disposing of the vehicle has obtained a Nonrepairable Vehicle Certificate ensuring that the vehicle is not retitled or resold, and ownership of the vehicle is transferred to an auto dismantler.

(c) Transfer of ownership to an educational or research institution or a museum where it would be appropriate for display or study.


§227.52. Vehicles Excluded from Testing and Deployment.

(a) The following vehicles shall not be approved for testing or deployment as autonomous vehicles on public roads:

(1) Trailers as defined in Vehicle Code section 242 (camp trailer), section 324 (fifth-wheel travel trailer), and section 635 (trainer coach).

(2) Motorcycles as defined in Vehicle Code section 400.

(3) Motor vehicles with interstate operating authority pursuant to Vehicle Code sections 8050 through 8058.

(4) A vehicle with a gross vehicle weight rating of 10,001 or more pounds.

(5) Vehicles described in Vehicle Code sections 34500 and 31309.


§227.54. Manufacturer’s Permit to Test Autonomous Vehicles that do not Require a Driver.

A manufacturer desiring to conduct testing of autonomous vehicles capable of operating without the presence of a driver inside the vehicle on public roads in California shall submit an application for a permit to conduct driverless testing to the department on Autonomous Vehicle Tester (AVT) Program Application for a Manufacturer’s Testing Permit- Driverless Vehicles, form OL 318 (New 9/2016), which is hereby incorporated by reference. Notwithstanding the requirements of sections 227.04, 227.18, 227.20, 227.22, 227.32, 227.34 (a) through (d), and 227.40 (a)(2) and (a)(3), and 227.46 a manufacturer may conduct testing of autonomous vehicles capable of operating without the presence of a driver inside the vehicle on public roads in California if all of the following requirements are met:

(a) The manufacturer is conducting the testing in cooperation with local authorities.
(b) The manufacturer provides a reference to the ordinances or resolutions from local authorities that specifies the operational design domains within the jurisdiction of the local authorities that the vehicles may be operated.

(c) The manufacturer has in place and has provided the department with evidence of the manufacturer’s ability to respond to a judgment or judgments for damages for personal injury, death, or property damage arising from the operation of autonomous vehicles on public roads in the amount of five million dollars ($5,000,000), in the form of: an instrument of insurance issued by an insurer admitted to issue insurance in California as specified in sections 227.08 and 227.12; a surety bond issued by an admitted surety insurer or an eligible surplus lines insurer, and not a deposit in lieu of bond as specified in section 227.10; or a certificate of self-insurance as specified in section 227.14.

   (1) The manufacturer shall assume any and all responsibility for liability associated with the operation of the vehicles on public roads.

(d) The manufacturer has provided the department, in writing, the identification of the autonomous vehicles capable of operation without a driver that are to be tested on public roads. For each vehicle the manufacturer shall provide to the department all of the following:

   (1) The make, model, and model year of the vehicle.
   (2) The full vehicle identification number.
   (3) The license plate number and the state of issuance.

(e) The manufacturer has provided a description of the driverless technology to be tested and identified the operational design domain of the vehicles to be tested.

(f) The manufacturer has applied for and the department has issued to the manufacturer a Manufacturer’s Testing Permit to conduct the testing on public roads of vehicles that do not require a driver.

(g) The manufacturer certifies that the vehicle complies with all of the following:

   (1) There is a communication link between the vehicle and the remote operator to provide information on the vehicle’s location and status and allow two-way communication between the remote operator and any passengers if the vehicle experiences any failures that would endanger the safety of the vehicle’s passengers or other road users while operating without a driver. The certification shall include a description of how the manufacturer will monitor the communication link.

   (2) There is a process to display or transfer vehicle owner or operator information as specified in Vehicle Code section 16025 in the event that the vehicle is involved in a crash, collision, or accident or if there is a need to provide that information to a law enforcement officer for any reason.

   (3) The subject autonomous vehicles comply with all relevant Federal Motor Vehicle Safety Standards, Title 49 Code of Federal Regulations, Part 571, as well as the “Vehicle

(4) Any vehicle that is not equipped with manuals controls, such as a steering wheel, brake pedal, and accelerator pedal, complies with all Federal Motor Vehicle Safety Standards as well as the “Vehicle Performance Guidance for Automated Vehicles” in the National Highway Traffic Safety Administration’s Federal Automated Vehicles Policy, or the manufacturer provides evidence of an exemption that has been approved by the National Highway Traffic Safety Administration.


(i) The manufacturer certifies that the vehicle is capable of operation solely in the operational design domain specified in the application.

(i) The manufacturer certifies that it is responsible for monitoring the status of the vehicle and the two-way communication link with the autonomous vehicle. The certification shall include an explanation of how all of the vehicles deployed by the manufacturer will be monitored;

(k) The manufacturer provides a copy of a law enforcement interaction plan, which includes information that manufacturer will provide to the law enforcement agencies and other first responders in the vicinity of the operational design domains of the autonomous vehicles that will instruct those agencies on how to interact with the vehicle in emergency and traffic enforcement situations. The manufacturer shall certify that it developed the law enforcement interaction plan in consultation with the impacted law enforcement agencies.

(1) Within 10 days of approval of the application, the law enforcement interaction plan shall be submitted, at no cost, to law enforcement agencies and other first responders within the vicinity of the operational design domain of the autonomous vehicles.

(2) Within 10 day of approval of the application law enforcement interaction plan shall also be submitted to the California Highway Patrol at:

California Highway Patrol
Commercial Vehicle Section
601 N. 7th Street
Sacramento, CA 95811

(l) The manufacturer shall maintain a training program for its remote operators and provide the department with a course outline and description of the remote operator training program. The remote operator training program shall include, but not be limited to the following:

(1) Instruction on the automated driving system technology being tested, including how to respond to emergency situations and hazardous driving scenarios experienced by the vehicle or the vehicle’s occupants.
(2) The instruction shall match the level and technical maturity of the automated driving system.

(m) The manufacturer shall submit the fee of (To be Determined) for the processing of the application which will accommodate up to 10 driverless autonomous test vehicles. The manufacturer may supplement the application with additional pages to add more than 10 vehicles by submitting the additional fee of fifty dollars ($50) for each set of 1 to 10 vehicles.

(1) The department may also require the manufacturer to reimburse the department for all costs incurred for consultants or contractors retained by the department to provide services the department may deem necessary to review the application.

(2) In the event the manufacturer’s contact information changes, or the named administrator, the manufacturer shall within ten (10) days of the change submit the OL 320 to the department with the updated information, and submit a modification fee of seventy dollars ($70).

(n) Upon receipt of a Manufacturer’s Testing Permit to conduct the testing on public roads of vehicles that do not require a driver, a manufacturer shall commence retaining data related to the disengagement of the autonomous mode. For the purposes of this section, “disengagement” means the deactivation of the autonomous mode when there is a failure of the autonomous technology or when the safety of the vehicle, the occupants of the vehicle, or the public requires that the autonomous technology be deactivated.

(1) The manufacturer shall prepare and submit to the department an annual report summarizing the information compiled pursuant to this subsection within one month of the close of each report period.

(2) The first report shall cover the period of one year immediately following the date of issuance of the Manufacturer’s Testing Permit.

(3) Subsequent annual reports shall be based on the same twelve-month interval as the first report.

(4) The annual report shall summarize disengagements for each month as follows:

(A) The total number of autonomous mode disengagements and the circumstances or testing conditions at the time of the disengagements including:

(i) The location: interstate, freeway, highway, rural road, street, or parking facility.

(ii) A description of the facts causing the disengagements, including: weather conditions, road surface conditions, construction, emergencies,
accidents or collisions, and whether the disengagement was the result of a planned test of the autonomous technology.

(B) The total number of miles each autonomous vehicle tested in autonomous mode on public roads each month.

(o) A manufacturer whose autonomous vehicle while operating under a Manufacturer’s Testing Permit to conduct the testing on public roads of vehicles that do not require a driver, is in any manner involved in an accident originating from the operation of the vehicle on public roads that resulted in the damage of property or in bodily injury or death shall report the accident to the department, within 10 days after the accident, on Report of Traffic Accident Involving an Autonomous Vehicle, form OL 316 (REV 9/2016). The manufacturer shall identify on the form, by name and current address, if available, all person involved in the accident, and a full description of how the accident occurred. Nothing in this section relieves any person from compliance with any other statutory and/or regulatory accident reporting requirements.

(p) Each document identifying vehicles for testing shall be signed by a person authorized by the manufacturer to bind the manufacturer, under penalty of perjury under the laws of the State of California.


§227.56. Financial Requirements for a Permit to Deploy Autonomous Vehicles on Public Roads.

An autonomous vehicle may be deployed on public roads for non-testing use only when the manufacturer of the vehicle meets all of the following requirements:

(a) The manufacturer has in place and has provided the department with evidence of the manufacturer’s ability to respond to a judgment or judgments for damages for personal injury, death, or property damage arising from collisions or accidents caused by the autonomous vehicles produced by the manufacturer in the form of an instrument of insurance, or a surety bond, or proof of self-insurance as follows:

(1) A surety bond shall meet the requirements of Section 227.10 (a), (b), (d), and (f), shall be conditioned that the surety shall be liable if the manufacturer, as principal, fails to pay any final judgment for damages for personal injury, death or property damage arising from an accident involving an autonomous vehicle operated by the manufacturer under Vehicle Code section 38750(c), and shall be submitted to the department with the Autonomous Vehicles Manufacturer Deployment Program Surety Bond, form OL 317A (New 6/2014); or

(2) An instrument of insurance must meet the requirements of Section 227.08; or

(3) The manufacturer provides proof of self-insurance that meets the requirements of Section 227.14 (b) and (c) to the department on an Autonomous Vehicle Manufacturer’s Deployment Program Application for Certificate of Self-
Insurance, form OL 319A (New 5/2015), which is hereby incorporated by reference.

(A) If the application is complete and the manufacturer meets all requirements for issuance, the department shall issue the manufacturer a certificate reciting that the manufacturer has permission from the department to satisfy the requirements of Vehicle Code section 38750, subsection (c)(3), by self-insurance. The department will reject any Autonomous Vehicle Manufacturer’s Deployment Program Application for Certificate of Self-Insurance that is incomplete or insufficient.

(B) In the event the department receives information suggesting that the manufacturer no longer meets the requirements for permission to satisfy the requirements of Vehicle Code section 38750, subsection (c)(3), by self-insurance, the department may require additional evidence of the manufacturer’s ability to respond to a judgment or judgments for damages, and the manufacturer shall be required to provide additional evidence.

(C) The department shall cancel a certificate of self-insurance for any of the following reasons:

(i) The holder of the certificate has not provided the additional evidence required by Vehicle Code section 38750, subsection (c)(2).

(ii) Inability, refusal, or failure of the holder of the certificate to submit the required financial statements and supporting documentation.

(iii) The submission of fraudulent or incomplete documents.

(b) Any cancellation of the permission to satisfy the requirements of Vehicle Code section 38750, subsection (c)(3), shall be subject to the hearing requirements provided in these regulations for the suspension or revocation of permits or authorizations.

(c) The manufacturer’s evidence of financial responsibility as required by Vehicle Code section 38750, subsection (c)(3), is in addition to that required by Vehicle Code section 38750, subsection (b)(3), and does not absolve any vehicle owner of the requirement to be able to show, at all times, evidence of financial responsibility in the amounts specified in Vehicle Code section 16056.


(a) Except for testing as permitted by sections 227.24 and 227.54, and deployment as provided in section 227.60, an autonomous vehicle shall not be deployed on any public road in California until the manufacturer has submitted and the department has approved an Application for a Permit to Deploy Autonomous Vehicles on Public Streets, form OL 321 (New X/2016), which is hereby incorporated by reference.

(1) The manufacturer shall identify in the application the make and model of the vehicles intended for public deployment (the “subject autonomous vehicle”). The manufacturer may include like vehicle models on the same application. For purposes of this section, “like vehicle models” are defined as vehicles with the same vehicle platform and body style and are equipped with the same autonomous technology system.

(2) The manufacturer shall identify in the application the operational design domain in which the subject autonomous vehicles are designed to operate and certify that the vehicles are incapable of operating in the autonomous mode in areas outside of the disclosed operational design domain.

(3) The manufacturer shall identify any commonly-occurring or restricted conditions, including but not limited to: snow, fog, black ice, wet road surfaces, construction zones, and geo-fencing by location or road type, under which the vehicles are incapable of operating in the autonomous mode and certify that the vehicles are incapable of operating in autonomous mode under those conditions.

(4) The manufacturer shall submit the fee of (To be Determined) for the processing of the application. The department may also require the manufacturer to reimburse the department for all costs incurred for consultants or contractors retained by the department to provide services the department may deem necessary to review the application.

(5) The manufacturer must provide on the application the number of the Manufacturer’s License issued by the department pursuant to Vehicle Code section 11701.

(6) The manufacturer shall certify in the application that the subject autonomous vehicles are equipped with an autonomous technology data recorder that captures and stores autonomous technology sensor data for all vehicle functions that are controlled by the autonomous technology at least 30 seconds before and at least 5 seconds after or until the vehicle comes to a complete stop after a collision with another vehicle, person, or other object while the vehicle is operating in autonomous mode. The data captured and stored by the autonomous technology data recorder, in a read only format, must be capable of being accessed and retrieved by a commercially available tool.

(A) The manufacturer shall certify that it will release autonomous technology sensor data as specified in this section that is in its possession or control to law enforcement or peace officers within 24 hours of their request for such data.

(b) The manufacturer shall submit with the application all of the following:

(1) Certification that the vehicle complies with the “Vehicle Performance Guidance for Automated Vehicles” in the National Highway Traffic Safety Administration’s Federal Automated Vehicles Policy.

(2) Certification that the autonomous vehicle’s autonomous technology is designed to detect and respond to roadway situations in compliance with all provisions of the California Vehicle Code and local regulation applicable to the operation of motor vehicles.

(A) The manufacturer shall also certify that the autonomous technology shall be updated at least annually or by the effective date of any changes in the California Vehicle Code and local regulation applicable to the operation of motor vehicles.

(B) The manufacturer shall also certify that location and mapping information utilized or referenced for the purpose of vehicle location and operation shall be updated on a continual basis consistent with changes to the physical environment captured by the maps.

(3) A copy of the consumer education plan that addresses the topics and issues raised in the “Vehicle Performance Guidance for Automated Vehicles” in the National Highway Traffic Safety Administration’s Federal Automated Vehicles Policy.

(A) Copies of the end user education plan shall be provided at no cost to law enforcement and emergency response agencies in the vicinity of the operational design domain of the vehicles and shall be provided to the California Highway Patrol at the address provided in this section.

(4) A description of how the vehicle will safely come to a complete stop when there is an autonomous technology failure that would endanger the safety of the vehicle’s occupants or other road users and the driver does not or is unable to take manual control of the vehicle, including but not limited to, all of the following:

(A) Moving the vehicle a safe distance from the travel lanes.

(B) Activation of systems that will allow the vehicle to continue operation until the vehicle has reached a location where it can come to a complete stop.

(5) A copy of a law enforcement interaction plan, which includes information that the manufacturer will provide to the law enforcement agencies and other first responders in the vicinity of the operational design domains of the autonomous vehicles that will instruct those agencies on how to interact with the vehicle in emergency and traffic enforcement situations. The manufacturer shall certify that it developed the law enforcement interaction plan in consultation with the impacted law enforcement agencies.
(A) Within 10 days of approval of the application, the law enforcement interaction plan shall be submitted, at no cost, to law enforcement agencies and other first responders within the vicinity of the operational design domain of the autonomous vehicles.

(B) Within 10 day of approval of the application law enforcement interaction plan shall also be submitted to the California Highway Patrol at:

California Highway Patrol
Commercial Vehicle Section
601 N. 7th Street
Sacramento, CA 95811

(6) A copy of the written disclosure required by section 227.78.

(7) A certification that the subject autonomous vehicle satisfies each requirement of Vehicle Code section 38750, subsection (c)(1).

(8) A certification that the manufacturer has complied with its responsibility to register with the National Highway Traffic Safety Administration and that it is aware of its responsibilities to comply with federal motor vehicle safety requirements.


(c) The requirements identified in subsection (b) of this section shall be submitted as follows:

(1) Documents shall be submitted on business letterhead and clearly identify the party completing the plan or report.

(2) Each plan or report shall contain at least a two-page summary including the contents and conclusion of the plan or report. Charts, graphs or other visual or audio materials may be included as attachments to the summary.

(3) Each page shall be sequentially numbered, and contain the name of the party completing the plan or report, and shall name or identify the subject autonomous vehicles covered by the technology in the plan or report.

(4) Each plan or report shall be signed and dated under penalty of perjury, certifying the correctness of its contents.

(d) The manufacturer shall also submit a sample copy of the certification stickers, as specified in section 227.84, to be affixed to the manufacturer’s vehicles and a certification that the subject vehicles’ autonomous technology does not make inoperative or adversely impact any Federal Motor Vehicle Safety Standards, other federal regulations, or California vehicle or emission standards for the vehicle’s model year.

§227.60. Application for a Permit for Post-Testing Deployment of Autonomous Vehicles that do not Require a Driver on Public Roads.

(a) Except for testing as provided in section 227.54, an autonomous vehicle that does not require a driver shall not be deployed on any public road in California until the manufacturer has submitted and the department has approved an Application for a Permit to Deploy Driverless Autonomous Vehicles on Public Streets, form OL 320 (New 9/2016), which is hereby incorporated by reference.

(1) The manufacturer shall identify in the application the make and model of the vehicles intended for public deployment (the “subject autonomous vehicle”). The manufacturer may include like vehicle models on the same application. For purposes of this section, “like vehicle models” are defined as vehicles with the same vehicle platform and body style and are equipped with the same autonomous technology system.

(2) The manufacturer shall identify in the application the operational design domain in which the subject autonomous vehicles are designed to operate and certify that the vehicles are incapable of operating in the autonomous mode in areas outside of the disclosed operational design domain.

(3) The manufacturer shall identify any commonly-occurring or restricted conditions, including but not limited to: snow, fog, black ice, wet road surfaces, construction zones, and geo-fencing by location or road type, under which the vehicles are incapable of operating in the autonomous mode and certify that the vehicles are incapable of operating in autonomous mode under those conditions.

(4) The manufacturer shall submit the fee of (To be Determined) for the processing of the application. The department may also require the manufacturer to reimburse the department for all costs incurred for consultants or contractors retained by the department to provide services the department may deem necessary to review the application.

(5) The manufacturer must provide on the application the number of the Manufacturer’s License issued by the department pursuant to Vehicle Code section 11701.

(6) The manufacturer shall certify in the application that the subject autonomous vehicles are equipped with an autonomous technology data recorder that captures and stores autonomous technology sensor data for all vehicle functions that are controlled by the autonomous technology at least 30 seconds before and at least 5 seconds after or until a complete stop after a collision with another vehicle, person, or other object while the vehicle is operating in autonomous mode. The data captured and stored by the autonomous technology data recorder, in a read only format, must be capable of being accessed and retrieved by a commercially available tool.

(A) The manufacturer shall certify that it will release autonomous technology sensor data as specified in this section that is in its possession or control to law enforcement or peace officers within 24 hours of their request for such data.

(8) The manufacturer shall certify that it has completed testing of the vehicles consistent with the “Vehicle Performance Guidance for Automated Vehicles” in the National Highway Traffic Safety Administration’s Federal Automated Vehicles Policy.

(9) The manufacturer holds a Manufacturer’s Permit to Test Autonomous Vehicles that do not Require a Driver and submitted at least one report required by subdivision (n) of section 227.54. The manufacturer shall certify that it has evaluated and remediated the causes of the disengagements reported to the department.

(b) The manufacturer shall submit with the application all of the following:

(1) Certification that the vehicle complies with the “Vehicle Performance Guidance for Automated Vehicles” in the National Highway Traffic Safety Administration’s Federal Automated Vehicles Policy.

(2) Certification that the autonomous vehicle’s autonomous technology is designed to detect and respond to roadway situations in compliance with all provisions of the California Vehicle Code and local regulation applicable to the operation of motor vehicles.

(A) The manufacturer shall also certify that the autonomous technology shall be updated at least annually or by the effective date of any changes in the California Vehicle Code and local regulation applicable to the operation of motor vehicles.

(B) The manufacturer shall also certify that location and mapping information utilized or referenced for the purpose of vehicle location and operation shall be updated on a continual basis consistent with changes to the physical environment captured by the maps.

(3) A copy of the consumer education plan that addresses the topics and issues raised in the National Highway Traffic Safety Administration’s “Vehicles Performance Guidance for Automated Vehicles” in the Federal Automated Vehicles Policy.

(A) Copies of the end user education plan shall be provided at no cost to law enforcement and emergency response agencies in the vicinity of the operational design domain of the vehicles and shall be provided to the California Highway Patrol at the address provided in this section.

(4) A description of how the vehicle will safely come to a complete stop when there is an autonomous technology failure that would endanger the safety of the vehicle’s occupants or other persons or property, including but not limited to, all of the following:

(A) Moving the vehicle a safe distance from the travel lanes.

(B) Activation of systems that will allow the vehicle to continue operation until the vehicle has reached a location where it can come to a complete stop.
(5) A copy of a law enforcement interaction plan, which includes information that the manufacturer will provide to the law enforcement agencies and other first responders in the vicinity of the operational design domains of the autonomous vehicles that will instruct those agencies on how to interact with the vehicle in emergency and traffic enforcement situations. The manufacturer shall certify that it developed the law enforcement interaction plan in consultation with the impacted law enforcement agencies.

(A) Within 10 days of approval of the application, the law enforcement interaction plan shall be submitted, at no cost, to law enforcement agencies and other first responders within the vicinity of the operational design domain of the autonomous vehicles.

(B) Within 10 day of approval of the application law enforcement interaction plan shall also be submitted to the California Highway Patrol at:

California Highway Patrol
Commercial Vehicle Section
601 N. 7th Street
Sacramento, CA 95811

(6) A copy of the written disclosure required by section 227.78.

(7) A certification that the subject autonomous vehicle satisfies each requirement of Vehicle Code section 38750, subsection (c)(1).

(8) A certification that the manufacturer has complied with its responsibility to register with the National Highway Traffic Safety Administration and that it is aware of its responsibilities to comply with federal motor vehicle safety requirements.


(c) The manufacturer certifies that the vehicle complies with the all of the following:

(1) A communication link between the vehicle and the remote operator to provide information on the vehicle’s location and status and allow two-way communication between the remote operator and any passengers if the vehicle experiences any failures that would endanger the safety of the vehicle’s passengers or other road users while operating without a driver.

(2) The ability to display or transfer vehicle owner or operator information as specified in Vehicle Code section 16025 in the event that the vehicle is involved in a crash, collision, or accident or if there is a need to provide that information to a law enforcement officer for any reason.

(3) Any vehicle that is not equipped with manual controls, such as a steering wheel, brake pedal, and accelerator pedal, complies with all Federal Motor Vehicle Safety Standards as well as the “Vehicle Performance Guidance for Automated Vehicles” in the National
Highway Traffic Safety Administration’s *Federal Automated Vehicles Policy*, or the manufacturer provides evidence of an exemption that has been approved by the National Highway Traffic Safety Administration.

(d) The requirements identified in subsection (b) of this section shall be submitted as follows:

(1) Documents shall be submitted on business letterhead and clearly identify the party completing the plan or report.

(2) Each plan or report shall contain at least a two-page summary including the contents and conclusion of the plan or report. Charts, graphs or other visual or audio materials may be included as attachments to the summary.

(3) Each page shall be sequentially numbered, and contain the name of the party completing the plan or report, and shall name or identify the subject autonomous vehicles covered by the technology in the plan or report.

(4) Each plan or report shall be signed and dated under penalty of perjury, certifying the correctness of its contents.

(e) The manufacturer shall also submit a sample copy of the certification stickers, as specified in section 227.84, to be affixed to the manufacturer’s vehicles and a certification that the subject vehicle’s autonomous technology does not make inoperative or adversely impact any Federal Motor Vehicle Safety Standards, other federal regulations, or California vehicle or emission standards for the vehicle’s model year.


(a) The department shall review the applications submitted pursuant to sections 227.58 and 227.60 and notify the manufacturer within 30 business days of receipt whether the application is determined to be incomplete. After notification by the department, manufacturers may submit materials necessary to complete the application up to one year after the date of the original submission of the application.

(b) Applications deemed complete will be reviewed for approval, except as required by the timeframes set forth in Vehicle Code section 38750.

(c) The department shall issue a notice of correction to manufacturers whose applications are deemed deficient in content details within thirty (30) business days of the application being deemed complete. The manufacturer may resubmit the application with the corrections required by the notice of correction within one year of the original submission of the application.

(d) Pending applications that have not been approved by the department after notice of incompleteness under subsection (a) or notice of correction under subsection (c) shall expire one year from the original date of submission to the department.
(e) The department shall approve the application if the manufacturer has:

(1) submitted all the information and certifications required by sections 227.56, 227.58 and 227.60; and,

(2) based on the submitted information and certifications, conducted testing necessary to satisfy the department that the subject autonomous vehicles are safe to operate on public roads.

(f) Pursuant to Vehicle Code section 38750 subdivision (e)(2), approval of an application submitted under section 227.60 will be effective no sooner than 180 days after the application was submitted.


§227.64. Amendment of Application.
(a) Within ten (10) days of any change to the contact information provided on the Application for a Permit to Deploy Autonomous Vehicles on Public Streets or Application for a Permit to Deploy Driverless Autonomous Vehicles on Public Streets, a manufacturer shall notify the department in writing on the manufacturer’s letterhead of the change, including changes in contact names, telephone numbers, or mailing address.

(b) A manufacturer shall submit a new application for public deployment prior to implementing a material change in the capabilities or performance of an autonomous vehicle previously approved by the department for public deployment. For the purposes of this section, a material change is defined as any hardware, software, or other significant update to the autonomous vehicle’s autonomous technology that triggers the need to submit a new safety assessment letter to the National Highway Traffic Safety Administration as specified in the “Vehicle Performance Guidance for Automated Vehicles.”

(c) A manufacturer shall not deploy the material change to the autonomous vehicle or autonomous technology until the new application has been approved by the department.


§227.66. Reporting Safety Defects.

A manufacturer who identifies a safety-related defect in their autonomous technology shall submit to the department a copy of the report prepared in compliance with the timeframe and requirements specified in Part 573, Title 49 of the Code of Federal Regulations.


§227.68. Conditions Related to the Term of Permit.

(a) Every Permit to Deploy Autonomous Vehicles on Public Streets issued under this article shall be valid until such time that it is suspended or revoked by the department pursuant to section 227.76 or surrendered by the manufacturer.
(b) A manufacturer shall only allow the deployment of vehicles by the general public for the period of time that the Permit to Deploy is valid as specified in subsection (a) of this section.


§227.70. Refusal of an Application for a Permit to Deploy

The department may refuse an Application for a Permit to Deploy Autonomous Vehicles on Public Streets or an Application for a Permit to Deploy Driverless Autonomous Vehicles on Public Streets and may suspend or revoke such a Permit for any of the following:

(a) If a manufacturer violates any provision of Vehicle Code section 38750, subsection (c), or this Article.

(b) For any act or omission of the manufacturer or one of its agents, employees, contractors, or designees which the department determines creates a safety risk to the public.


§227.72. Demand for Hearing on Refusal of Permit.

(a) Upon refusal by the department to issue a Permit to Deploy Autonomous Vehicles on Public Streets, a manufacturer shall be entitled to request in writing a hearing before the director or his or her representative. Such request must be delivered to the department within 60 days after the notice of refusal is issued.

(b) The hearing shall be conducted by the director or by a hearing officer appointed by the director from the officers or employees of the department at a time and place designated by the department.

(c) Upon conclusion of the hearing the hearing officer shall make findings and render a determination on behalf of the department and shall notify the manufacturer within 30 days.

(d) All matters in a hearing not covered by this section shall be governed, as far as applicable, by Chapter 5 (commencing with section 11500) of Part 1 of Division 3 of Title 2 of the Government code.


§227.74. Suspension or Revocation of Permit.

(a) The department will provide a 30-day written notice to the manufacturer before suspending the Permit to Deploy Autonomous Vehicles on Public Streets. The department may suspend or revoke a Permit to Deploy Autonomous Vehicles on Public Streets for any of the following reasons:

(1) The manufacturer has failed to maintain financial responsibility in the amount required by Vehicle Code section 38750, subsection (c)(3), and section 227.56 of this Article.
(2) The manufacturer submitted incorrect or misleading information in the Application for a Permit to Deploy Autonomous Vehicles on Public Streets or the Application for a Permit to Deploy Driverless Autonomous Vehicles on Public Streets.

(3) The manufacturer fails to report to the department any change to the information or certifications required and provided in the application under section 227.64 within 10 days of the date of the change.

(4) The manufacturer fails to comply with any of the provisions of this article related to the deployment of autonomous vehicles.

(b) The department may immediately suspend the Permit to Deploy Autonomous Vehicles on Public Streets for any of the following reasons:

(1) If a manufacturer’s vehicle manufacturer, distributor, or remanufacturer license has been suspended or revoked by the department.

(2) If the manufacturer deploys any vehicle equipped with autonomous vehicle functions that were not disclosed in the manufacturer’s Application for a Permit to Deploy Autonomous Vehicles on Public Streets or Application for a Permit to Deploy Driverless Autonomous Vehicles on Public Streets.

(3) If the manufacturer has misrepresented any information related to safety of the autonomous technology of its vehicles.

(4) If the autonomous technology of the manufacturer’s vehicles makes inoperative any federally required motor vehicle safety systems.

(5) If the manufacturer’s vehicles are subject to an open National Highway Traffic Safety Administration recall related to the safe operation of the autonomous technology.

(6) Based upon the performance of the vehicles, the department determines the manufacturer’s vehicles are not safe for the public’s operation.

(c) Upon suspension or revocation by the department of a Permit to Deploy Autonomous Vehicles on Public Streets, a manufacturer shall cease all further deployments of its autonomous vehicles on public streets until the department has verified that the manufacturer has taken appropriate action to correct the deficiencies or complied with the National Highway Traffic Safety Administration recall that led to the suspension or revocation and the suspension has been lifted or the revocation withdrawn by the department.

(d) Upon suspension or revocation by the department of a Permit to Deploy Autonomous Vehicles on Public Streets, a manufacturer shall also notify all owners of its autonomous vehicles that the manufacturer’s Permit to Deploy has been suspended or revoked by the department and the reason for the suspension or revocation.

§227.76. Administrative Procedures for a Suspension or Revocation of Permit.

(a) A manufacturer that has received an order of suspension or revocation from the department may request in writing a hearing on the matter as specified in section 227.72. Any hearing shall be conducted by the director or by a hearing officer appointed by the director from the officers or employees of the department.

(1) If a manufacturer wishes to have a hearing before the effective date of the order of suspension or revocation, the request for hearing shall be made within ten days of the receipt of the order of suspension or revocation. The hearing shall be held at a time and place designated by the department.

(2) The department shall hold the hearing before the effective date of the order of suspension or revocation if the request for hearing is received by the department on or before ten days after the manufacturer’s receipt of the order of suspension or revocation.

(3) The only issues at the hearing on an order of suspension of revocation shall be those listed in subsections (a) and (b) of section 227.74.

(4) Upon conclusion of the hearing the hearing officer shall make findings and render a determination of behalf of the department and shall notify the manufacturer. The decision shall take effect as stated in the order of suspension or revocation.

(5) A request for hearing does not stay the order of suspension or revocation. If the department does not conduct a hearing and make a determination before the effective date of the suspension or revocation, the department shall stay the effective date of the order pending the determination.

(b) If a suspension or revocation is effective immediately as specified in subsection (b) of section 227.74, the manufacturer may request a hearing within five days of receipt of the order of suspension or revocation. The department shall provide for a hearing within a reasonable time not to exceed 21 days after a written request for hearing is filed with the department. A request for hearing does not stay the effective date of the suspension or revocation.

(1) If the order is for a suspension of a permit, at the hearing the manufacturer shall show cause why the suspension should not be continued. Following the hearing the department may terminate the suspension or continue the suspension in effect.

(2) If the order is for a revocation of a permit, at the hearing the manufacturer shall show cause why the permit should not be revoked. Following the hearing the department may sustain the revocation or determine that the permit should be suspended.
(c) All matters in a hearing not covered by this section shall be governed, as far as applicable, by Chapter 5 (commencing with section 11500) of Part 1 of Division 3 of Title 2 of the Government Code.


§227.78. Information Privacy.

(a) The manufacturer shall either:

(1) Provide a written disclosure to the operator of an autonomous vehicle that describes the information collected by the autonomous technology that is not necessary for the safe operation of the vehicle; or,

(2) Anonymize the information that is not necessary for the safe operation of the vehicle.

(b) If the information is not anonymized, the manufacturer shall obtain the written approval of the operator of an autonomous vehicle to collect any information by the autonomous technology that is not necessary for the safe operation of the vehicle.

(c) A manufacturer shall not deny use of an autonomous vehicle to any person on the basis that they do not provide the written approval specified in subsection (b) of this section.


§227.80. Registration of Vehicle Modified with Autonomous Technology.

(a) In addition to the requirements set forth in Vehicle Code section 4150, an application for registration of an autonomous vehicle previously titled in California prior to the incorporation of autonomous technology shall include:

(1) The certificate of ownership or certificate of origination from the vehicle manufacturer as defined in Vehicle Code section 672.

(A) The certificate of origination shall clearly indicate when a vehicle has been equipped with autonomous technology by including a field designated as “MISC”, followed by “AV” as an abbreviation for autonomous vehicle or “AV-D” as an indication the vehicle is capable of operating without a driver.

(2) An indication that the certification label pursuant to section 227.82 is present on a Verification of Vehicle (REG 31).

(b) An autonomous vehicle so modified shall be identified as such on the face of the registration card and any certificate of ownership.

§227.82. Vehicle Labeling Requirements and Content.

(a) A manufacturer of a new autonomous motor vehicle shall affix a certification label on each vehicle with the following characteristics:

1. Manufacturer or Business Name
2. Manufactured Date (month and year)
3. Vehicle Identification Number
4. The following statement: “The manufacturer of this autonomous vehicle has certified it conforms to State of California requirements for autonomous vehicles in effect on the date shown above.”
5. Printed using 12-point or larger font
6. A minimum length of 4½ inches and a minimum width of 3½ inches.

(b) A manufacturer that installs autonomous technology into a vehicle after its original manufacture so that it qualifies as an autonomous vehicle shall affix a certification label on each vehicle with the following characteristics:

1. Manufacturer or Business Name
2. Installation Date (month and year)
3. Vehicle Identification Number
4. The following statement: “This vehicle has been modified with the incorporation of autonomous technology that the manufacturer has certified conforms to State of California requirements for autonomous vehicles in effect on the date of manufacture shown above.”
5. Printed using 12-point or larger font
6. A minimum length of 4½ inches and a minimum width of 3½ inches.

(c) The autonomous vehicle label shall be affixed to either the hinge pillar, door-latch post, or the door edge that meets the door-latch post, next to the driver's seating position. The location of the label must be such that it is easily readable without moving any part of the vehicle except an outer door.


§227.84. Registration Requirements for Manufactured Autonomous Vehicles.

(a) All new autonomous vehicles shall be labeled pursuant to section 227.82 (labeling requirements) and shall not be registered unless the label has been verified by the department or a dealer.
(b) In addition to the requirements set forth in Vehicle Code section 4150, an application for original registration of an autonomous vehicle shall include verification that the required certification label is present through either a written statement accompanying the Application For Registration of New Vehicle (REG 397) or an indication the certification label is present on a Verification of Vehicle (REG 31).

(1) The application for registration shall clearly indicate when a vehicle has been equipped with autonomous technology by including a field designated as “MISC”, followed by “AV” as an abbreviation for autonomous vehicle or “AV-D” as an indication the vehicle is capable of operating without a driver.

(c) An autonomous vehicle shall be identified as such on the face of the registration card and any certificate of ownership issued by the department pursuant to this Article.


§227.86. Driver and Manufacturer Responsibility.

(a) The driver of any autonomous vehicle equipped with an automated system that monitors the dynamic driving task but requires the driver to respond when there is a need to intervene shall possess the proper class of license for the type of vehicle being operated.

(1) In the event that the system requires the driver to take control of the vehicle or when the vehicle is operating outside of its approved operational design domain, the driver shall be responsible for the safe operation of the vehicle, including compliance with all traffic or other laws.

(2) The manufacturer shall be responsible for the safe operation of the vehicle, including compliance with all traffic laws, when the autonomous vehicle is operating in autonomous mode within its approved operational design domain.

(b) The manufacturer of any autonomous vehicle that is capable of performing all aspects of the dynamic driving task without reliance on the intervention of a driver shall be responsible for the safe operation of the vehicle at all times the vehicle is operating in its operational design domain, including compliance with all traffic or other laws.


Any autonomous vehicle operated on any public road in California shall be maintained to the Federal Motor Vehicle Safety Standards to which it was originally manufactured. The date displayed on the manufacturer certification label required by section 227.82 shall be the definitive source to determine the applicable Federal Motor Vehicle Safety Standard requirements.

§ 227.90. Statements About Autonomous Technology

(a) No vehicle shall be advertised as an autonomous vehicle unless it meets all of the following requirements:

(1) The vehicle meets the definition of an autonomous vehicle specified in Vehicle Code section 38750 and section 227.02(d) of this Article.

(2) The vehicle was manufactured by a manufacturer licensed pursuant to Vehicle Code section 11701 also holding a valid autonomous vehicle manufacturer’s permit issued pursuant to this Article at the time of the vehicle’s manufacture.

(b) Terms such as “self-driving”, “automated”, “auto-pilot”, or other statements made that are likely to induce a reasonably prudent person to believe a vehicle is autonomous, as defined, constitute an advertisement that the vehicle is autonomous for the purposes of this section and Vehicle Code section 11713.