

## Service Guide



# The National Agency for Automobile (NALTEC) contributes to the transportation is safe and

## History of establishment

NALTEC was established through the integration of two Independent Administrative Agencies, the National Agency of Vehicle Inspection and the National Traffic Safety and Environment Laboratory. Its objectives are to secure a safe and environmentally friendly transportsystem through the generation of synergy from comprehensive measures from the design process and new vehicles to the usage process based on the Act to Partially Revise the Road Transport Vehicle Act and Act on the National Agency of Vehicle Inspection, Independent Administrative Agency (Act No. 44 promulgated June 24, 2015).



## First-term mid-term plans

NALTEC operates based on a prescribed mid-term plan to achieve the 1st term mid-term objectives (2016 ficical year to 2020 ficical year) indicated by the Minister of Land, Infrastructure, Transport and tourism.

## Accurate, strict, and fair implementation of duties

- ① Examinations of vehicle (Standards compliance examinations for type approval) (Standards compliance examinations for the usage stage)
- 2 Vehicle registration confirmation check
- 3 Technical verification for automobile recalls

## **Basic policies**

- Establish and thoroughly implement strict and fair inspection methods
- Establish research and inspection for new technology and strengthen international communicativity

## Support administrations that deal with new technology and social demands

- 4 Produce high-quality research results
- (§) Improvement and enhancement of vehicle examinations
- Improvement and enhancement of vehicle examinations of technical verification for automobile recalls

## Support the international standardization of Japanese technology

- ① International standardization of automobile technology
- 8 International standardization of railroad technology

## and Land Transport Technology realization of a world in which environmentally friendly.

## **Operations**

NALTEC carries out comprehensive operations from design process and new vehicles to the usage process through integration and implements rapid and reliable measures to introduce new technology and discover defects.

Research that contributes to the drafting of related administrative policies carried out by the government, the formulation of technical regulation, etc. (4) and 5) of mid-term plan)

▶ Research work









Regulations compliance examinations for type approval, etc. (1) of mid-term plan)

▶ Regulations compliance examinations for type approval carried before vehicles are introduced to the market, etc.









Standards compliance examinations for the usage stage (1) and (5) of mid-term plan)

\* For details, see the following two-page spread

Inspection at the inspection stations







▶ Research of OBD\* inspection methods





**%OBD:On-board diagnostics** 

- 4 Vehicle registration confirmation check (2) of mid-term plan)
- ▶ Pre confirmation check application documents, etc.



- 5 Technical verification for automobile recalls (3) and 6 of mid-term plan)
- ▶ Verification tests at research facilities











## Regulations compliance examinations for the usage process



Inspectors efficiently check individual vehicles in the inspection lane using cutting-edge equipment.

## Inspection Lanes

The National Agency for Automobile and Land Transport Technology conducts inspections using lanes for compliance checks and for measurement.

Display

Headlight tester

## Office Building

The Ministry of Land, Infrastructure, Transport and Tourism accepts applications for inspections and issues an inspection certificate for vehicles that pass inspection.

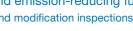


Vehicle safety and emission-reducing functions are examined (Initial, periodical and modification inspections.)

Layout of inspection equipment and main elements of the

inspection lane

The arrangement of equipment is different at some inspection stations.





Sideslip teste

results

Vehiclé category selection button Re-inspection

application button



## Brake tester Speedometer tester Brake inspection

Braking force measurement



## External inspection

- · Body and frame · Safety-related devices
- Running system Seat and seat belt
- Lamps Engine Electric devices
- Steering devices

## Sideslip inspection

Steering wheel alignment



## Speedometer inspection

Speedometer error



## Confirmation of identity

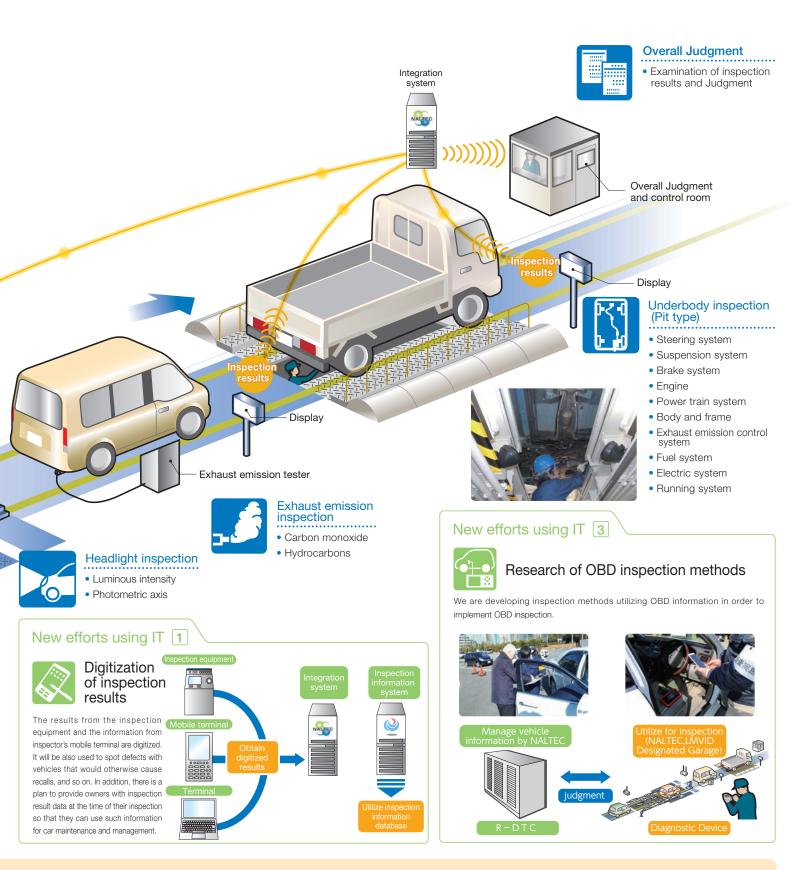
- Chassis number
   Engine type
- Number plate 
   Vehicle category
- Use
   Vehicle shape















Proximity exhaust noise inspection Exhaust noise made through mufflers are measured.





Inspection of stable inclination angle
Stability of motor vehicles is examined.

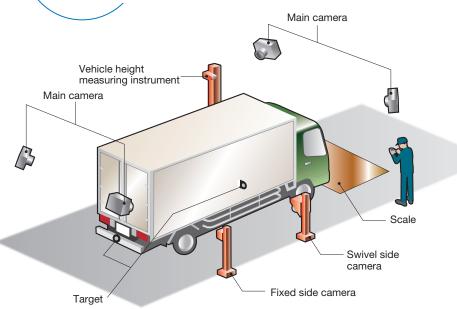




Diesel smoke inspection
Opacity meters, etc. are used to examine black smoke.

## Measurement Lane

Vehicle size and weight are measured and vehicle images are obtained primarily (initial and modification inspections.)



## New efforts using IT [2]



## Introduction of 3D measurement and image acquisition equipment

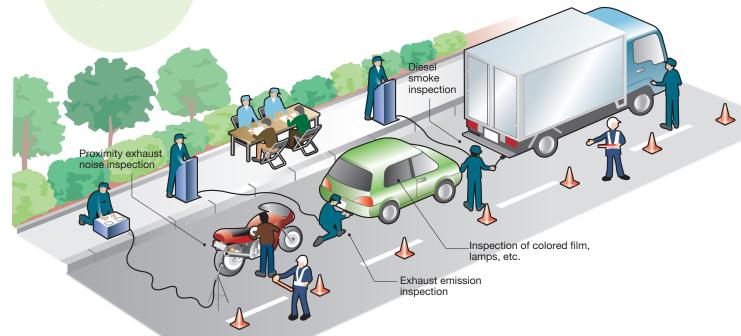
The use of 3D measurement and image acquisition equipment in initial inspection, etc. was introduced in 2008. This equipment takes highly accurate measurements of the specifications of motor vehicles and acquires images of the vehicles, which are then electronically recorded and saved. The image data acquired can then be used in periodical technical inspection or roadside inspection with the aim of preventing unauthorized secondary modifications, etc. after the initial or modification inspection.



Roadside Inspection

Inspectors conduct inspections along roadsides.

Officers of the Ministry of Land, Infrastructure, Transport and Tourism issue maintenance orders for vehicles with unauthorized modifications and poorly maintained vehicles.







Conducting special roadside inspection in areas where many motor vehicles with unauthorized modifications are predicted to be driven.

In order to eliminate vehicles with unauthorized modifications, special roadside examinations are conducted in areas where many such vehicles are predicted to be found, such as near the venues of custom motor vehicle shows, or on New Year's Day, when drivers or bikers gather and drive recklessly for the first sunrise of the year.



## About vehicle inspections

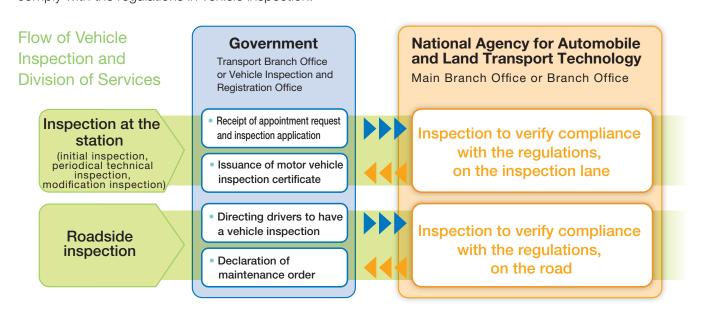
In order to secure automobile safety and preserve the environment, the function of vehicle inspections is to ensure that individual vehicles comply with the regulations set by the Ministry of Land, Infrastructure, Transport and Tourism. Vehicle inspections also play a role in confirming that users are properly maintaining their vehicles.

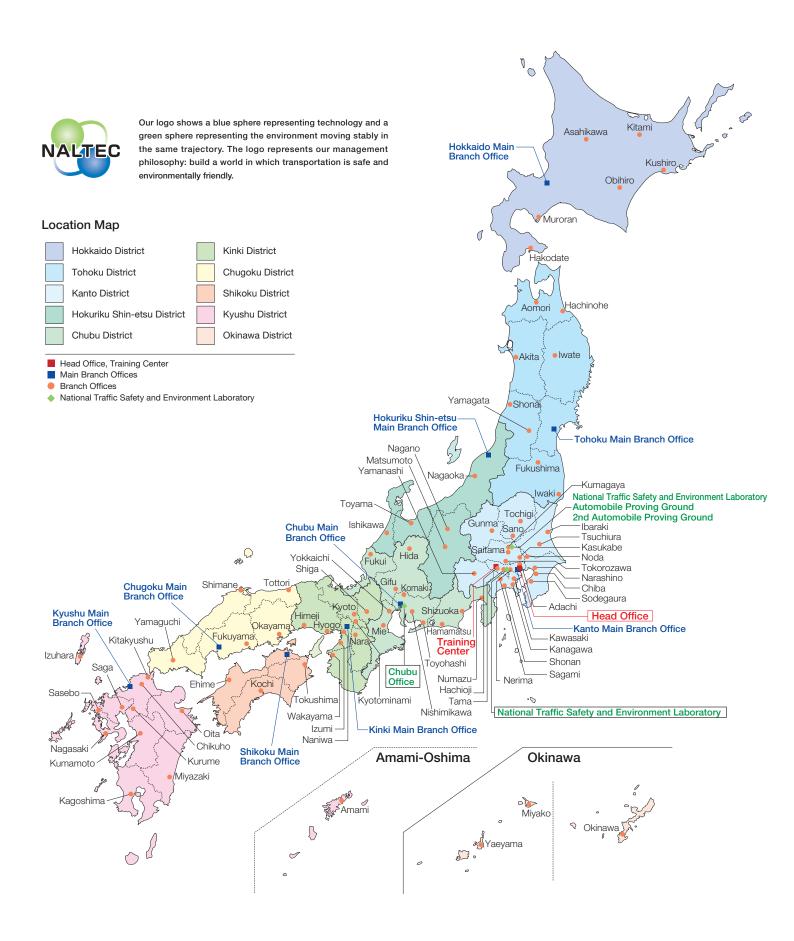
## Category of Vehicle Inspections

Inspection Category		Content	Applicable Inspection Lanes
**************************************	Initial Inspection	Inspection required when first operating a vehicle. (Article 59 of the Road Vehicles Act) (In addition to inspecting conformity to the regulations, the size and weight of vehicles are also measured.)	Compliance Check Lane     Measurement Lane
自動車投資品 自動車投資品 更 新	Periodical technical Inspection	Inspection required when renewing vehicle inspection certificate. (Article 62 of the above)	Compliance Check Lane
2350kg	Modification Inspection	Inspection required when modifications to a vehicle have been made in length, width, height, maximum loading capacity, or for other changes to its structure. (Article 67 of the above)  (In addition to inspecting conformity to the regulations, the size and weight of vehicles are also measured.)	Compliance Check Lane     Measurement Lane
The state of the s	Roadside Inspection	Inspection carried out on roads and other places to remove vehicles with unauthorized modifications and poorly maintained vehicles.  (Article 100 of the above)	

## The role of the National Agency for Automobile and Land Transport Technology in vehicle inspections

The specific role of the National Agency for Automobile and Land Transport Technology is to verify whether vehicles comply with the regulations in vehicle inspection.





## National Agency for Automobile and Land Transport Technology

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