

PRECAUTION

IN006-01

FOR VEHICLES EQUIPPED WITH A CATALYTIC CONVERTER

CAUTION: If large amounts of unburned gasoline flow into the converter, it may overheat and create a fire hazard. To prevent this, observe the following precautions and explain them to your customer.

1. Use only unleaded gasoline.

2. Avoid prolonged idling.

Avoid running the engine at idle speed for more than 20 minutes.

3. Avoid spark jump test.

(a) Perform spark jump test only when absolutely necessary. Perform this test as rapidly as possible.

(b) While testing, never race the engine.

4. Avoid prolonged engine compression measurement.

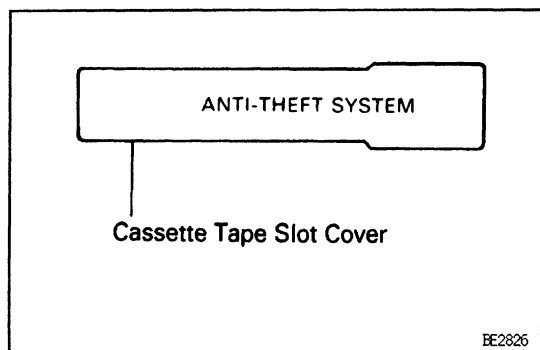
Engine compression tests must be done as rapidly as possible.

5. Do not run engine when fuel tank is nearly empty.

This may cause the engine to misfire and create an extra load on the converter.

6. Avoid coasting with ignition turned off and prolonged braking.

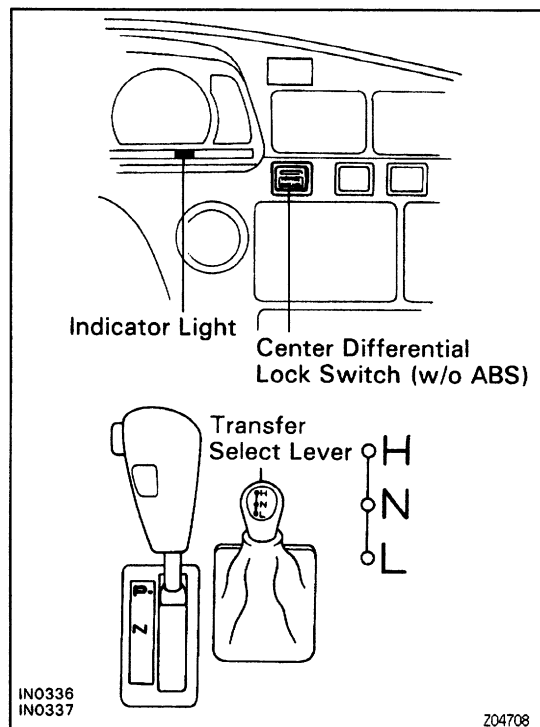
7. Do not dispose of used catalyst along with parts contaminated with gasoline or oil.



FOR VEHICLES WITH AN AUDIO SYSTEM WITH BUILT-IN ANTI-THEFT SYSTEM

Audio System displaying the sign "ANTI - THEFT SYSTEM" shown on the left has a built-in anti-theft system which makes the audio system soundless if stolen.

If the power source for the audio system is cut even once, the anti-theft system operates so that even if the power source is reconnected, the audio system will not produce any sound unless the ID number selected by the customer is input again. Accordingly, when performing repairs on vehicles equipped with this system, before disconnecting the battery terminals or removing the audio system the customer should be asked for the ID number so that the technician can input the ID number afterwards, or else a request made to the customer to input the ID number. For the method to input the ID number or cancel the anti-theft system, refer to the Owner's Manual.



WHEN SERVICING FULL-TIME 4WD VEHICLES

The full-time 4WD Land Cruiser Station Wagon is equipped with the mechanical lock type center differential system. When carrying out any kind of servicing or testing on a full-time 4WD in which the front or rear wheels are made to rotate (braking test, speedometer test, on-vehicle wheel balancing, etc.), or when towing the vehicle, be sure to observe the precautions given below. If incorrect preparations or test procedures are used, the test cannot be successfully carried out, and may be dangerous as well. Therefore, before beginning any such servicing or test, be sure to check the following items:

- (1) Center differential lock type
- (2) (w/o ABS)
 - Center differential mode position (FREE or LOCK)
- (3) Whether wheels should be touching ground or jacked up
- (4) Transmission gear position
- (5) Transfer gear position (H or L)
- (6) Maximum testing vehicle speed
- (7) Maximum testing time

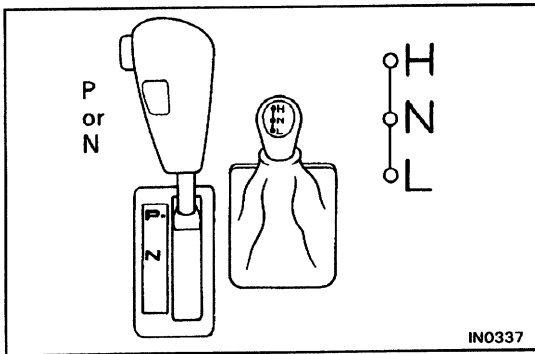
Also be sure to observe the following cautions:

- (1) Never accelerate or decelerate the vehicle suddenly.
- (2) Observe the other cautions given for each individual test.

Before Beginning Test

During tests with a brake tester or chassis dynamometer, such as braking force tests or speedometer tests, if only the front or rear wheels are to be rotated, it is necessary to set the position of the center differential to the FREE position or to the LOCK position depending on the type of test being performed.

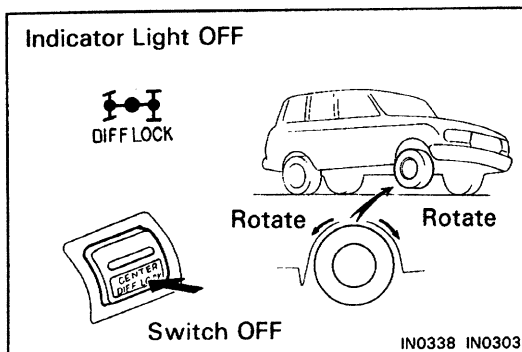
- (1) (w/o ABS)
 - Select the position of the center differential by pushing the center differential lock switch with the transfer select lever to "H" position.
- (2) After selecting the position, confirm the operation of indicator light.

**HINT:**

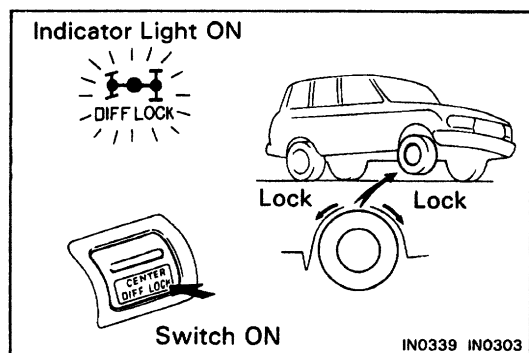
- (w/o ABS)
Move the vehicle backward or forward slightly if the indicator light does not operate correctly when the center differential lock switch is turned ON or OFF.
- When the transfer select lever is put in "L" position, the center differential is put in LOCK condition regardless of the position of the center differential lock switch.
- Transfer H ↔ L Gear Shifting Procedure:
When shifting, always put the shift lever of the automatic transmission in P or N range. In other ranges, the gears of the transfer clash, and switching cannot occur.

(w/o ABS)**CAUTIONS WHEN CENTER DIFFERENTIAL CONTROL SWITCH IS TURNED ON**

- Operate the switch only when all four wheels are stopped or when driving with the wheels in a straight line.
- Never operate the switch under the following conditions.
 - (1) When any tire is slipping.
 - (2) When any tire is spinning freely.
 - (3) When swerving or cornering.

**FREE Position**

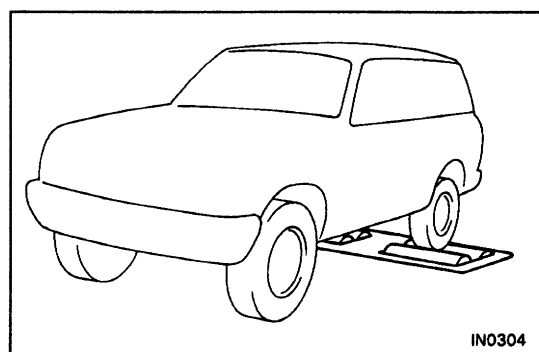
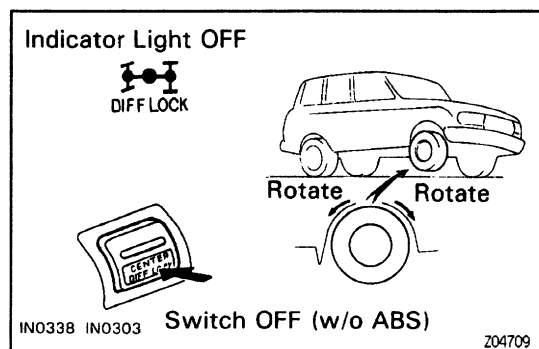
Center Differential Lock		Transfer Select Lever	Wheel
Control Switch	Indicator Light		
OFF	OFF	H	A lifted wheel can be rotated even if only one wheel is lifted up, as long as transmission is in N range.



LOCK Position

Center Differential Lock		Transfer Select Lever	Wheel
Control Switch	Indicator Light		
ON	ON	H	A lifted wheel cannot be rotated if only one wheel is lifted up, even if transmission is in N range.
OFF	ON	L	

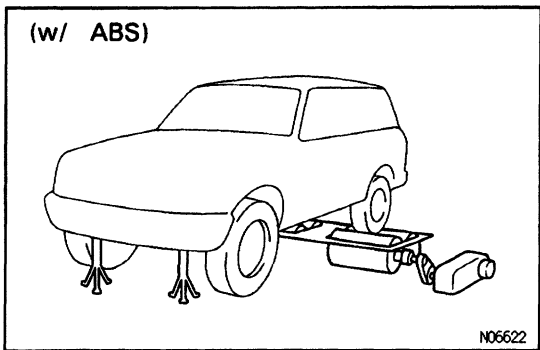
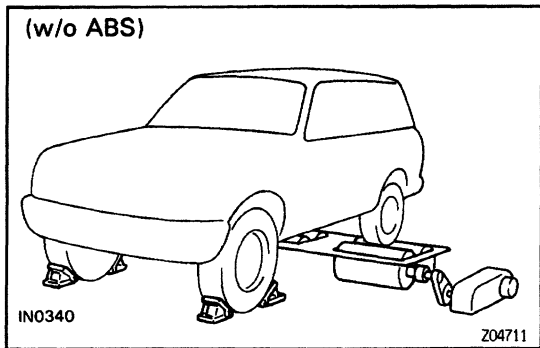
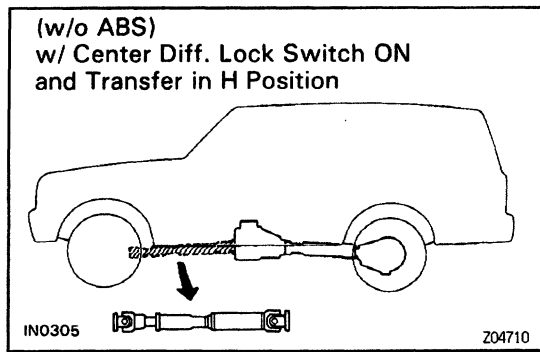
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Braking Force Test (Vehicle Speed: Below 0.5 km/h or 0.3 mph)

When performing low – speed type brake tester measurements, observe the following instructions.

- (1) Put the center differential in FREE position.
 - Shift the transfer select lever to H position.
 - (w/o ABS)
 - Turn the center differential lock switch to OFF and check that the center differential lock indicator light goes off.
- (2) Shift the transmission shift lever to N range.
- (3) Idle the engine, operate the brake booster and perform the test.



Speedometer Test or Other Tests (Using Speedometer Tester or Chassis Dynamometer)

(1) (w/o ABS)

Remove the front propeller shaft, put the center differential in LOCK position, then put the rear wheels on the tester roller and perform the test.

(2) (w/ ABS)

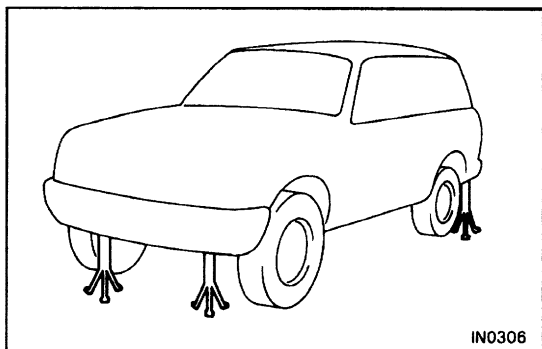
Shift the transfer select lever to H position, jack up the front wheels, then put the rear wheels on the tester roller and perform the test.

(3) When performing tests, observe the following precautions.

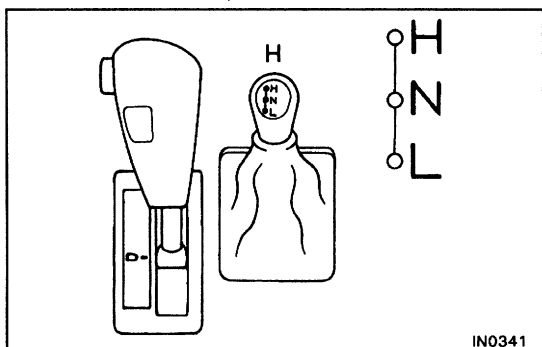
- (w/o ABS)
Check that the center differential is securely in LOCK condition.
- Confirm that the vehicle is securely immobilised.
- Never operate the brakes suddenly, suddenly drive the wheels, or suddenly decelerate.

On-Vehicle Wheel Balancing

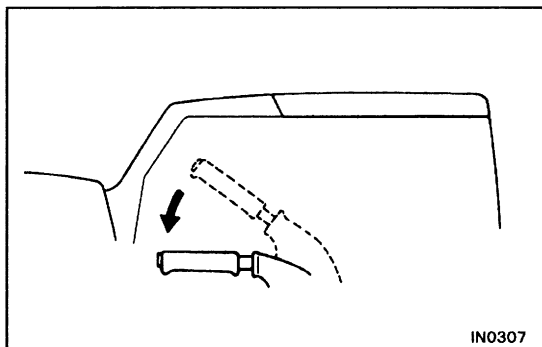
When doing on-vehicle wheel balancing on a full-time 4WD vehicle, to prevent the wheels from rotating at different speeds or in different directions from each other (which could lead to damage to the center differential or transfer gears), always be sure to observe the following precautions:



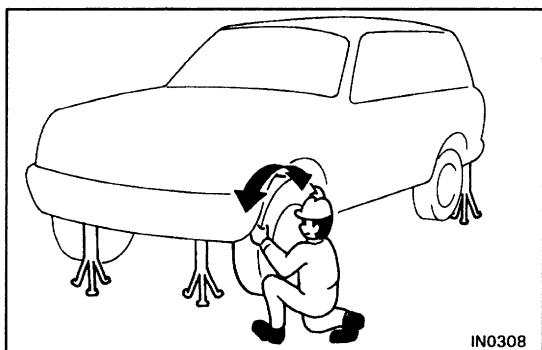
- (1) All four wheels should be jacked up, clearing the ground completely.



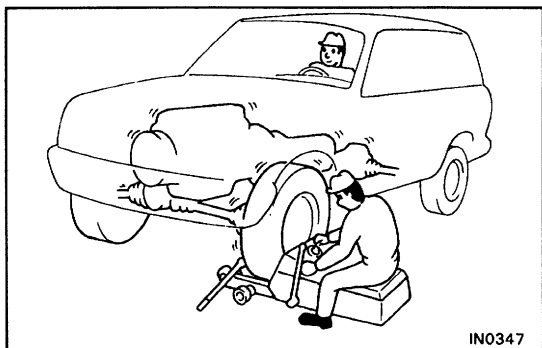
- (2) (w/o ABS)
The center differential should be in the LOCK position with the transfer gear in H position.
- (3) (w/ ABS)
Shift the transfer select lever to H position.



- (4) The parking brake lever should be fully released.



- (5) None of the brakes should be allowed to drag.



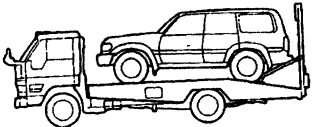
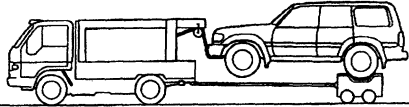
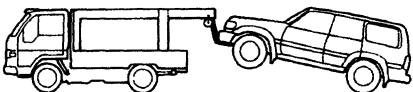
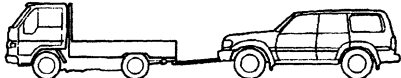
- (6) The wheels should be driven with both the engine and the wheel balancer.

HINT: When doing this, be careful of the other wheels, which will rotate at the same time.

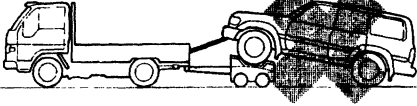
- (7) Avoid sudden acceleration, deceleration and braking.
- (8) Carry out the wheel balancing with the transmission in "D" or "3" range.

WHEN TOWING FULL-TIME 4WD VEHICLES

1. Use one of the methods shown below to tow the vehicle.
2. When there is trouble with the chassis and drivetrain, use method (1) (flat bed truck) or method (2) (sling type tow truck with dollies)
3. Recommended Methods: No.(1), (2) or (3)
Emergency Method: No.(4)

Condition Towing Method	Parking Brake	Transmission Shift Lever Position	Transfer Shift Lever Position	(w/o ABS) Center Differential Lock Switch	Center Differential
① Flat Bed Truck  IN0309	Applied	"P" Range	"H" Position	OFF	FREE Normal Driving
② Sling-Type Tow Truck with Dollies  IN0310					
③ Sling-Type Tow Truck (Front wheels must be able to rotate freely)  IN0311	Released	"N" Range	"N" Position	OFF	↑
④ Towing with Rope  IN0312	Released	"N" Range	"N" Position	OFF	↑
HINT: Do not tow the vehicle at a speed faster than 45 km/h (30 mph) or a distance greater than 80 km (50 miles).					

HINT: Do not use any towing methods other than those shown above.
For example, the towing method shown below is dangerous, so do not use it.

NO  IN0313	During towing with this towing method, there is a danger of the drive train heating up and causing breakdown, or of the front wheels flying off the dolly.
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