

## ON-VEHICLE INSPECTION

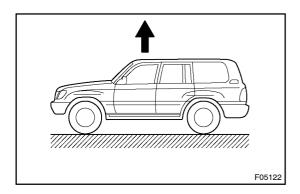
## 1. INSPECT[FLUID[LEVEL

(a) Start the engine on all evel place. Adjust the vehicle height to[]N"[position[with[]he[]yehicle[]unloaded.

## **NOTICE:**

After adjusting the vehicle height to control the fluid pressure in the height control accumulator, do not turn the engine OFF.

- (b) Check that the fluid tevel in the reservoir tank of the AHC pump[&[motor[]s[within[]he[standard[]ange.
- 2. OPERATE HEIGHT SELECT SWITCH AND CHECK **CHANGE OF VEHICLE HEIGHT**
- (a) Check the tires for the proper inflation pressure (See page[\$A-5)[]
- (b) Check the vehicle height See page A-9)
- Start the engine.



- Push the height select switch to change from "N" to the (d)
- Check the time required for the height change and the (e) changed amount of the vehicle height.

## Standard value

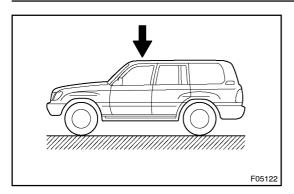
Up time	15 secs. less than
Down time	10 secs. less than

## Amount of change in vehicle height

Front	30 – 45 mm (1.18 – 1.77 in.)
Rear	40 – 55 mm (1.57 – 2.17 in.)

#### **NOTICE:**

After vehicle height control has been completed, wait for approx. 5 secs. until the height is fixed securely, then check the changed amount of vehicle height.



- (f) Push the height select switch to change from "N" to the "LO" mode.
- (g) Check the time required for the height change and the changed amount of the vehicle height.

#### Standard value

Up time	15 secs. less than
Down time	10 secs. less than

## Amount of change in vehicle height

Front	40 – 55 mm (1.57 – 2.17 in.)
Rear	30 – 45 mm (1.18 – 1.77 in.)

## **NOTICE:**

After vehicle height control has been completed, wait for approx. 5 secs. until the height is fixed securely, then check the changed amount of vehicle height.

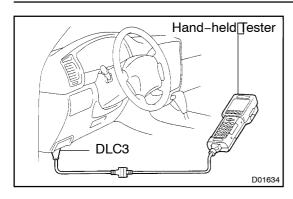
- 3. INSPECT VEHICLE SPEED SENSING FUNCTION
- (a) When vehicle height is in the "LO" position:
  - (1) Start the engine and push the height select switch to select the "LO" mode.
  - (2) Drive the vehicle at 5 km/h (3 mph) or more and check with an indicator that the vehicle height changes from "LO" to the "N" position.
- (b) When vehicle height is in the "HI" position:
  - (1) Start the engine and push the height select switch to select the "HI" mode.
  - (2) Drive the vehicle at 50 km/h (31 mph) or more and check with an indicator that the vehicle height changes from "HI" to the "N" position.
- (c) When the height control switch is operated:
  - (1) Push the height control switch to turn off the height control.
  - (2) Drive the vehicle and check with the indicator that the height control is activated automatically.

## Standard value

Vehicle Height	Vehicle Speed
HI	More than 30 km/h (19 mph)
N	More than 80 km/h (50 mph)
LO	More than 30 km/h (19 mph)

4. INSPECT PRESSURE VALUE OF FRONT SHOCK AB-SORBER (IN CASE OF USING HAND-HELD TESTER) NOTICE:

Perform the operation with vehicle unloaded (with the fuel tank and sub fuel tank filled up).



- (a) Connect The Thand-held Tester To TDLC3 Ton The Tyehicle.
- (b) Start the engine and push the theight select witch to adjust the vehicle theight of the N' position.
- (c) Push[]the[]height[]select[]switch[]to[]adjust[]the[]yehicle[]height from[]the[]N"[]to[]LO"[]then[]back[]to[]N"[]position.

## **NOTICE:**

## Adjust[it]with[no[passengers[are]]n.

- (d) ☐ Stop The Lengine.
- (e) Read[thepressure]value[of[thef]ront[shock[absorber]]with hand-held[tester[at]this[time.

#### Pressure:

## 6.9 ± 0.5 MPa (70 ± 5 kgf/cm + 996 ± 71 psi)

#### HINT:

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If the value shot within the specified value, adjust the torsion bar spring See page \$A-313).

- (f) Start the engine and push the height select switch to adjust the vehicle height to the "N" position.
- (g) Check[he[fluid[evel[See[page[\$A-305]).

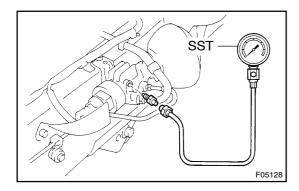
5. INSPECT PRESSURE VALUE OF FRONT SHOCK AB-SORBER (IN CASE OF NOT USING HAND-HELD TES-TER)

#### NOTICE:

- Perform the operation with the vehicle unloaded (with the fuel tank and sub fuel tank filled up).
- After and before using LSPV gauge (SST), make sure to clean the hose, gauge and adopter.
- (a) Start the engine and push the height select switch to adjust the vehicle height to the "LO" position.
- (b) With the ignition switch OFF, discharge the suspension fluid AHC from the bleeder plug of the either front right or left wheel dumping force control actuator.

## **CAUTION:**

The fluid gushes out because of high pressure, so discharge the fluid in the same way as air bleeding.



- (c) Remove[the[bleeder[plug[of[either[right[or]eft[dumping force[control[actuator[and[install[the[LSPV[gauge[SST] and[bleed[air.
  - SST 09709-29018
- (d) Start the engine and push the theight select witch to adjust the vehicle theight of the N' position.
- (e) Push[the[height[select[switch[to[adjust[the[vehicle[height from[the]]N"[to]]LO"[then[back[to]]N"[position.
- (f) ☐ Stop The Lengine.
- (g) Read[he[pressure[value[with]LSPV[gauge[SST)]at[his time

SST[] 09709-29018

## Pressure:

## 5.7 ± 0.3 MPa (58 ± 3 kgf/cm<sup>2</sup>) 825 ± 43 psi)

If the value is not within the specified value, adjust the torsion bar spring See page \$A-313).

- (h) Start the engine and push the theight select witch to adjust the vehicle theight of the LO" position.
- (i) With[the]gnition[switch]OFF,[discharge]the[suspension fluid[AHC]from[the]bleeder[plug[of]LSPV[gauge](SST).

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## **CAUTION:**

The fluid gushes out because of high pressure, so discharge the fluid in the same way as air bleeding.

- (j) ☐ Remove[t]he[t]LSPV[t]auge[t]SST).
  - SST∏ 09709-29018
- (k) Install the theeder thug.

Torque: 8.3 N·m 84 kgf·cm, 73 n.·lbf)

(I) Bleed the air See page SA-303).

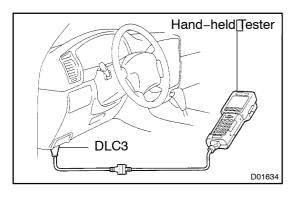
#### HINT:

 $Bleed \cite{thebleeder} \cit$ 

(m) ☐ Check The Thuid Tevel (See page \$A-305).

6. INSPECT PRESSURE VALUE OF REAR SHOCK AB-SORBER (IN CASE OF USING HAND-HELD TESTER) NOTICE:

Perform the operation with the vehicle unloaded (with the fuel tank and sub fuel tank filled up).



- (a) Connect The Thand-held Tester To TDLC3 Ton The Tyehicle.
- (b) Disconnect he fluid merature sensor connector.
- (c) Start the engine and push the theight select witch to adjust the vehicle theight from the "N" to "LO" then back to "N" position.

## **NOTICE:**

## Adjust[it]with[ho]passengers[are]in.

- (d) Stop the the dengine.
- (e) Read[]he[]pressure[]value[]pf[]he[]ear[]shock[]absorber[]vith hand-held[]ester[]at[]his[]ime.

#### Pressure:

w/o[\$ub[fuel[tank:

5.6 -[6.7[MPa[[57 -[68[kgf/cm<sup>2</sup>]]811 -[967[psi) w/[Sub[tuel[tank:

5.9 -[7.0[MPa[60 -[71[kgf/cm2]]853 - 1,010[psi)

If the pressure is not within the specified range, its cause may be that a load object is either installed or removed.

HINT:

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- (f) Connect the fluid temperature sensor connector.
- (g) Check the DTC See page DI-208).

If a DTC is displayed, clear the DTC (See page DI-208).

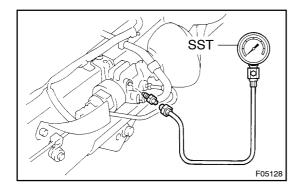
- (h) Start the engine and push the height select switch to adjust the vehicle height to the "LO" then to "N" position. At this time, check that the 4 wheels are raised simultaneously.
- 7. INSPECT PRESSURE VALUE OF REAR SHOCK AB-SORBER (IN CASE OF NOT USING HAND-HELD TES-TER)

#### NOTICE:

- Perform the operation with the vehicle unloaded (with the fuel tank and sub fuel tank filled up).
- After and before using LSPV gauge (SST), make sure to clean the hose, gauge and adopter.
- (a) Start the engine and push the height select switch to adjust the vehicle height to the "LO" position.
- (b) With the ignition switch OFF, discharge the suspension fluid AHC from the bleeder plug of the either rear right or left wheel dumping force control actuator.

## **CAUTION:**

The fluid gushes out because of high pressure, so discharge the fluid in the same way as air bleeding.



- (c) Remove[the[bleeder[plug[of[either[right[or]eft[dumping force[control[actuator[and[install[the[LSPV[gauge[SST] and[bleed[air.
  - SST 09709-29018
- (d) Start the engine and push the theight select witch to adjust the vehicle to the interest of the start the result of the start the select witch to adjust the start the select witch to adjust the start th
- (e) Push[the[height[select[switch[to[adjust[the[vehicle[height from[the]]N"[to]]LO"[then[back[to]]N"[position.
- (f) Stop the engine.
- (g) Read[he[pressure[value[with]LSPV[gauge[SST)]at[his time

SST[] 09709-29018

## Pressure:

w/o[\$ub[fuel[tank:

4.4 -[\$.5[MPa[45 -[\$6[kgf/cm2]640 -[797[psi)

w/\bigsymbol{\psi}\text{sub|\fuel|\fank:}

4.7 -[5.8[MPa[]48 -[59[kgf/cm<sup>2</sup>]]683 -[839[]psi)

If the pressure is not within the specified in ange, its cause in ay be that alload bject is either installed or itemoved.

- (h) Start the engine and push the theight select witch to adjust the vehicle to the interest of the start of
- (i) With the gnition witch OFF, discharge the suspension fluid AHC from the bleeder plug of LSPV gauge (SST).

#### **CAUTION:**

The fluid gushes out because of high pressure, so discharge the fluid in the same way as air bleeding.

(i) Remove the LSPV gauge (SST).

SST 09709-29018

(k) Install the bleeder plug.

Torque: 8.3 N·m (84 kgf·cm, 73 in.·lbf)

(I) Bleed the air See page SA-303).

## HINT:

Bleed the bleeder plug with LSPV gauge (SST) installed to only once.

(m) ☐ Check ☐ the ☐ the

**CHECK FLUID LEAKAGE** 

# 8. CHECK F

Check the connections of tube and parts for fluid leakage.

