

## TECH TIP

### Chassis Posture Measurement Guidelines & Specifications

#### OVERVIEW:

The purpose of this publication is to communicate the standard measuring positions on the Hino chassis. In some cases, the customer may report a visual chassis posture concern where the chassis appears to be leaning more towards the driver side or passenger side. The following publication can be referenced to obtain the manufacture's measurement positions and specifications. Should the truck not meet the specifications, you should consider the following potential causes noted in the inspection guideline section below.



#### SUBJECT

**VEHICLES:** All Hino Trucks

**Note:** This technical tip is provided as technical information and is not authorization for a warrantable repair.

#### INSPECTION GUIDELINES

- These guidelines are based on a cab/chassis (incomplete chassis) configuration.
- The weight distribution of the cargo including the addition of a body, fuel tanks, electric lift, tool boxes and any other modification, approved or unapproved, can alter the chassis posture. For additional information on chassis modification and body installation, reference the Body Builder Book.
- Tire pressures must be set to the tire manufacture specifications.
- Confirm the absence of worn or broken suspension components.
- The originally installed fuel tank(s) should be filled to approximately 30%.
- The truck must be on a flat level surface with no surface variation (gravel, broken or uneven concrete, dirt, grass, etc.)
- No driver or passengers are present in the cab or on the chassis.

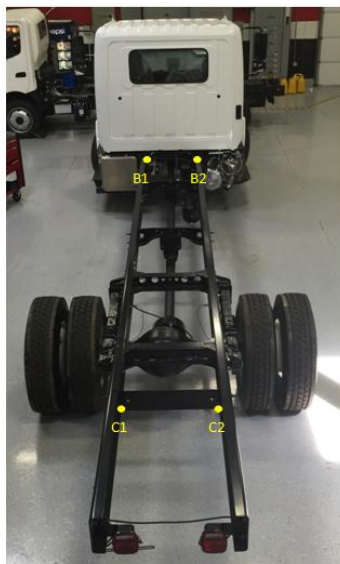
## TECH TIP

(Without Box)

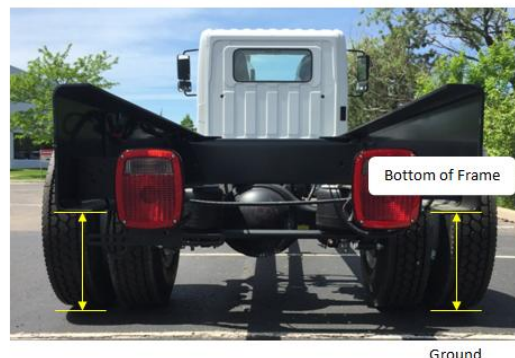


Measuring  
Point A  
(Front lower  
edge of  
frame)

Measuring  
Point B (Last  
cab  
crossmember)



Measuring  
Point C  
(Last  
Crossmember)



\*The measurement difference when comparing the driver side, side rail, and the passenger side, side rail measurements. The measurements should not exceed more than a 7.0mm difference side to side.

| Side Rail Measurement Points |     |    |     | Measurement Result |
|------------------------------|-----|----|-----|--------------------|
| A1                           | (-) | A2 | (=) | (+/- 7.0mm)        |
|                              | (-) |    |     |                    |
| B1                           | (-) | B2 | (=) | (+/- 7.0mm)        |
|                              | (-) |    |     |                    |
| C1                           | (-) | C2 | (=) | (+/- 7.0mm)        |
|                              | (-) |    |     |                    |

\* Record your measurement results for later reference.

## TECH TIP

(With Box)



Dimension “A” Bottom of front frame flange to level ground.

Dimension “B” Bottom of frame flange at the 2<sup>nd</sup> crossmember to level ground.

Dimension “C” Bottom of rear frame flange to level ground.

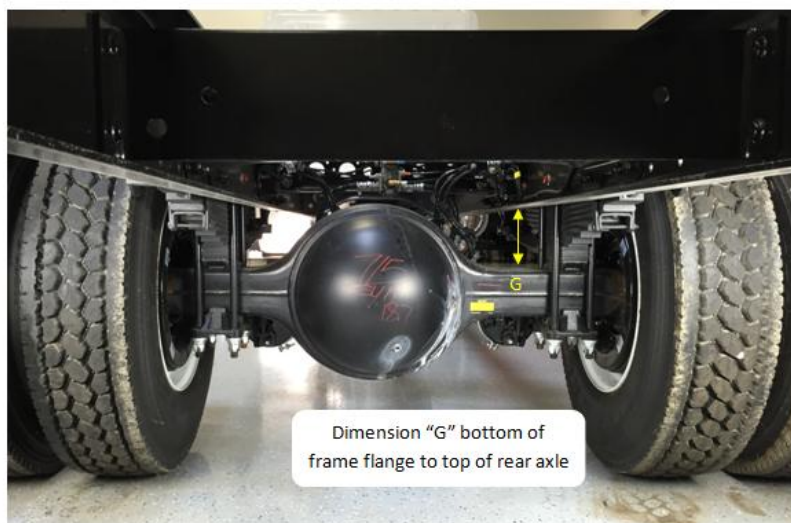
Dimension “D” Bottom of forward body corner to level ground.

Dimension “E” Bottom of rear body corner to level ground.

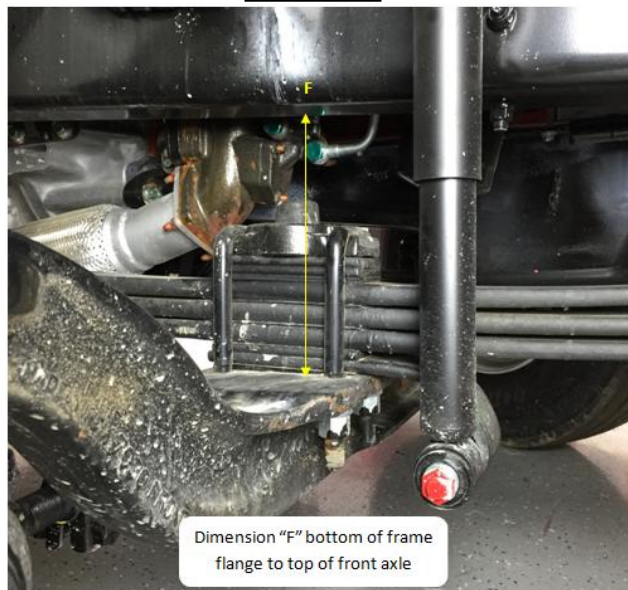
| EMPTY        |                | LOADED       |                |
|--------------|----------------|--------------|----------------|
| DRIVER SIDE  | PASSENGER SIDE | DRIVER SIDE  | PASSENGER SIDE |
| DIM. “A” in. | DIM. “A” in.   | DIM. “A” in. | DIM. “A” in.   |
| DIM. “B” in. | DIM. “B” in.   | DIM. “B” in. | DIM. “B” in.   |
| DIM. “C” in. | DIM. “C” in.   | DIM. “C” in. | DIM. “C” in.   |
| DIM. “D” in. | DIM. “D” in.   | DIM. “D” in. | DIM. “D” in.   |
| DIM. “E” in. | DIM. “E” in.   | DIM. “E” in. | DIM. “E” in.   |

## TECH TIP

REAR



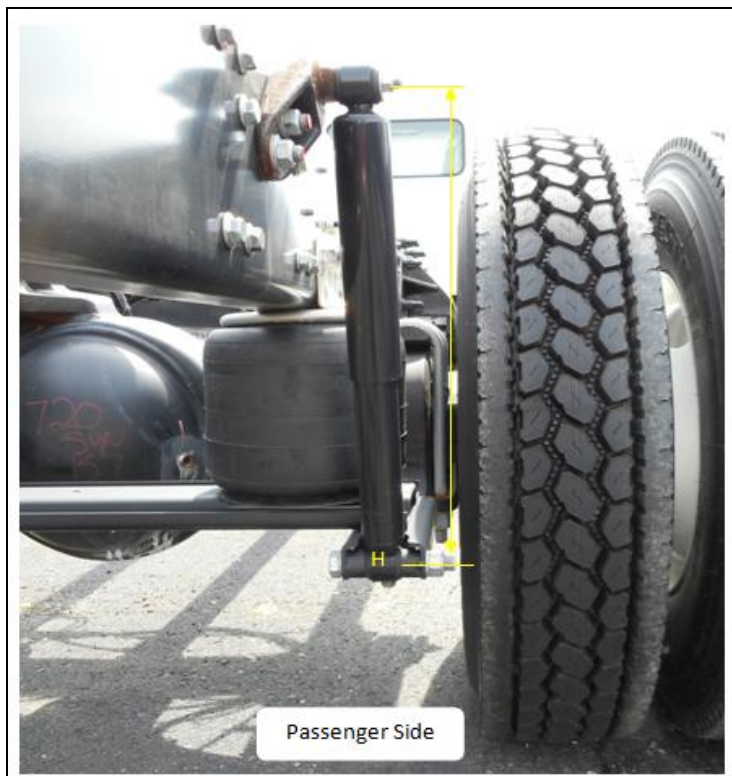
FRONT



| EMPTY        |                | LOADED       |                |
|--------------|----------------|--------------|----------------|
| DRIVER SIDE  | PASSENGER SIDE | DRIVER SIDE  | PASSENGER SIDE |
| DIM. "F" in. | DIM. "F" in.   | DIM. "F" in. | DIM. "F" in.   |
| DIM. "G" in. | DIM. "G" in.   | DIM. "G" in. | DIM. "G" in.   |

## TECH TIP

### With Rear Air Suspension



Dimension "H" bottom shock  
bolt to top shock bolt

| EMPTY        |                | LOADED       |                |
|--------------|----------------|--------------|----------------|
| DRIVER SIDE  | PASSENGER SIDE | DRIVER SIDE  | PASSENGER SIDE |
| DIM. "H" in. | DIM. "H" in.   | DIM. "H" in. | DIM. "H" in.   |