Front Axle Spacer Replacement

32-033

FLA COE
> FLB COE
> FLD Conventional
> Business Class
FLC 112 Conventional

> Century Class Conventional
> Argosy
> Cargo
> Columbia
> 122SD and Coronado

> Business Class M2
> Cascadia
> New Cascadia
> 108SD/114SD

Freightliner Service Bulletin

Description of Revisions: *This service bulletin replaces the version dated 05/01/2016. This bulletin is updated to include the parts list.*

General Information

Some vehicles may exhibit a lean (right or left) due to weight difference on the front suspension. While this does not affect the operation of the vehicle, it may be visually unpleasing to many customers.

To correct this condition, replace the existing front axle spacer on the low side of the vehicle with a thicker one using the procedure below.

Procedure

IMPORTANT: This procedure is the only authorized alteration of the front axle spacer thickness. The maximum allowable increase of spacer thickness is 1/2 inch (13 mm).

1. Park the vehicle on a level surface, shut down the engine, and set the parking brake. Chock the tires.
2. At the front axle, measure the distance from the lower frame rail flange to the ground on both sides of the vehicle.
3. If one side is higher than the other by 3/8-inch (9.5 mm) or more, check the height difference at the rear of the frame rails. If this is significant, other adjustments will be necessary; otherwise, correct the height difference in the front by replacing the low-side axle spacer with one of applicable thickness.

   Refer to **Table 1** and **Table 2** for the correct thickness of the new front axle spacer.

   For instructions on replacing the low-side axle spacer, refer to the applicable vehicle service/workshop manual:

   - **Section 32.00** of the *Heavy Duty Trucks Service Manual* for FLB COEs and FLD Conventionals
   - **Section 32.00** of the *Century Class Trucks Workshop Manual* for Argosy COEs and Century S/T Conventionals
   - **Section 32.00** of the *Business Class Trucks Service Manual*
   - **Section 32.00** of the *Columbia Workshop Manual*
   - **Section 32.01** of the *Cargo Workshop Manual*
   - **Section 32.00** of the *Cascadia Workshop Manual*
   - **Section 32.00** of the *Business Class M2 Workshop Manual*
   - **Section 32.00** of the *108SD and 114SD Workshop Manual*
   - **Section 32.00** of the *Coronado Workshop Manual*

Parts

3-Inch Spacers (16-15109-XXX), Front Suspension Height-Adjustment	
Dash Number	**Spacer Thickness (height): inches (mm)**
010	0.39 (10)
015	0.59 (15)

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3-Inch Spacers (16-15109-XXX), Front Suspension Height-Adjustment	
Dash Number	**Spacer Thickness (height): inches (mm)**
020	0.79 (20)
025	0.98 (25)
030	1.18 (30)
040	1.57 (40)
050	1.97 (50)
060	2.36 (60)
065	2.56 (65)
070	2.75 (70)
075	2.95 (75)
085	3.35 (85)
100	3.94 (100)
105	4.13 (105)
115	4.53 (115)

Table 1, 3-Inch Spacers (16-15109-XXX), Front Suspension Height-Adjustment

4-Inch Spacers (16-15105-XXX), Front Suspension Height-Adjustment	
Dash Number	**Spacer Thickness (height): inches (mm)**
010	0.39 (10)
015	0.59 (15)
020	0.79 (20)
025	0.98 (25)
030	1.18 (30)
035	1.38 (35)
040	1.57 (40)
045	1.77 (45)
050	1.97 (50)
055	2.17 (55)
060	2.36 (60)
065	2.56 (65)
070	2.75 (70)
075	2.95 (75)
080	3.15 (80)
085	3.35 (85)
090	3.54 (90)
095	3.74 (95)
100	3.94 (100)
105	4.13 (105)

4-Inch Spacers (16-15105-XXX), Front Suspension Height-Adjustment	
Dash Number	**Spacer Thickness (height): inches (mm)**
115	4.53 (115)
120	4.72 (120)
130	5.12 (130)
140	5.51 (140)

Table 2, 4-Inch Spacers (16-15105-XXX), Front Suspension Height-Adjustment

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See **Table 3** for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

NOTE: This service bulletin only applies during the initial operation period of the vehicle.

NOTE: This service bulletin is not applicable to vehicles with a body installed because the weight distribution of the installed body may not be even, causing vehicle lean.

NOTE: This service bulletin is not applicable to gliders.

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	**Component Code**	**Cause Code**	**SRT Code**	**Description**	**Time: Hours**
16-15109-010 (Axle Spacer)	016-002-038	28	620-5002A	Spacer, Front Axle Suspension, Leaning Vehicle Correction, R/R	0.7

Table 3, OWL VMRS Codes and Labor Allowance