

Description of Revisions: *This SB replaces the previous version dated May 1995. Revised are the forward axle seat angles to include changes caused by the one-piece, cast axle seats that became available August 8, 1995.*

As a guide to component application, consult the following tables for the rear drive axle pinion angles for various suspension heights, axle configurations, and load conditions.

IMPORTANT: Measure these heights at the lefthand forward drive axle stop. Refer to Group 32 of the applicable service manual for complete instructions.

For models RT-40, 44, and 46, see [Table 1](#).

For model DS-402, see [Table 2](#).

For model DS-404, see [Table 3](#).

NOTE: AirLiner suspensions feature three types of axle seats:

- a one-piece axle seat, which is not welded to the axle housing;
- a one-piece, cast axle seat, which is welded to the axle housing;
- a two-piece, fabricated axle seat, which is welded to the axle housing.

See [Fig. 1](#) to determine the axle seat type.

Suspension Height (Inches)		Unloaded		30,000 lb.		34,000 lb.		36,000 lb.		40,000 lb.		
FLA, FLB, FLD with one-piece axle seats	FLA, FLB, FLD with two-piece axle seats or FLC 112 & Business Class or FLA, FLB, FLD with lower than standard front suspension heights *	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft	
	2.625 (min)	2.375 (min)	2.10	10.60	3.03	11.53	3.20	11.70	3.28	11.78	3.45	11.95
	2.75	2.5	2.38	10.88	3.31	11.81	3.48	11.98	3.57	12.07	3.73	12.23
	2.875	2.625	2.66	11.16	3.59	12.09	3.76	12.26	3.84	12.34	4.01	12.51
	3.0	2.75	2.94	11.44	3.87	12.37	4.04	12.54	4.12	12.62	4.29	12.79
	3.12 (max)	2.87 (max)	3.22	11.72	4.15	12.65	4.32	12.82	4.40	12.90	4.57	13.07

* No spacer, excluding shock bracket, or FF943, FG943 (5-inch drop) front axles.

Table 1, Pinion Angles (in degrees), AirLiner Suspension 51-in and 55-in Axle Spacing, Axle Models RT-40, 44, and 46. (Axle seat angles fwd = 2.00 to 3.00 deg., aft = 5.50 deg., based on level frame.)

Freightliner
Service Bulletin> FLA COE
> FLB COE> FLD Conventional
> Business Class

> FLC 112 Conventional

Suspension Height (Inches)		Unloaded		30,000 lb.		34,000 lb.		36,000 lb.		40,000 lb.	
FLA, FLB, FLD with one-piece axle seats	FLA, FLB, FLD with two-piece axle seats or FLC 112 & Business Class or FLA, FLB, FLD with lower than standard front suspension heights *	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft
2.625 (min)	2.375 (min)	2.10	8.10	3.03	9.03	3.20	9.20	3.28	9.28	3.45	9.45
2.75	2.5	2.38	8.38	3.31	9.31	3.48	9.48	3.57	9.57	3.73	9.73
2.875	2.625	2.66	8.66	3.59	9.59	3.76	9.76	3.84	9.84	4.01	10.01
3.0	2.75	2.94	8.94	3.87	9.87	4.04	10.04	4.12	10.12	4.29	10.29
3.12	2.87	3.22	9.22	4.15	10.15	4.32	10.32	4.40	10.40	4.57	10.57

* No spacer, excluding shock bracket, or FF943, FG943 (5-inch drop) front axles.

Table 2, Pinion Angles (in degrees), AirLiner Suspension 51-in and 55-in Axle Spacing, Axle Model DS-402.
(Axle seat angles fwd = 2.00 to 3.00 deg., aft = 3.00 deg., based on level frame.)

Suspension Height (Inches)		Unloaded		30,000 lb.		34,000 lb.		36,000 lb.		40,000 lb.	
FLA, FLB, FLD with one-piece axle seats	FLA, FLB, FLD with two-piece axle seats or FLC 112 & Business Class or FLA, FLB, FLD with lower than standard front suspension heights *	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft	Fwd	Aft
2.625	2.375	2.10	9.60	3.03	10.53	3.20	10.70	3.28	10.78	3.45	10.95
2.75	2.5	2.38	9.88	3.31	10.81	3.48	10.98	3.57	11.07	3.73	11.23
2.875	2.625	2.66	10.16	3.59	11.09	3.76	11.26	3.84	11.34	4.01	11.51
3.0	2.75	2.94	10.44	3.87	11.37	4.04	11.54	4.12	11.62	4.29	11.79
3.12	2.87	3.22	10.72	4.15	11.65	4.32	11.82	4.40	11.90	4.57	12.07

* No spacer, excluding shock bracket, or FF943, FG943 (5-inch drop) front axles.

Table 3, Pinion Angles (in degrees), AirLiner Suspension 51-in and 55-in Axle Spacing, Axle Model DS-404.
(Axle seat angles: fwd = 2.00 to 3.00 deg., aft = 4.50 deg., based on level frame.)

This is an informational bulletin only. Warranty does not apply.

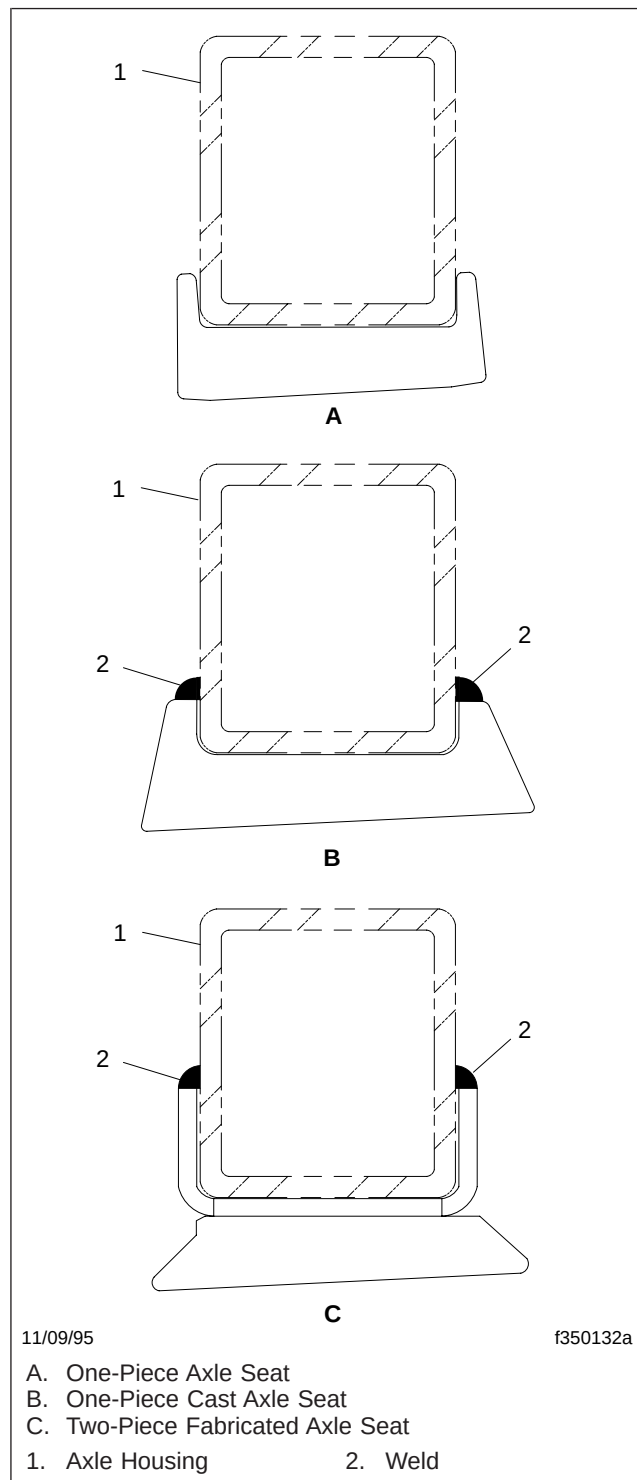


Fig. 1, Axle Seats