

----- VEHICLE DATA -----

Vehicle Name:	Freightliner FLD 120	Class 3 Trailer
Vehicle Type:	Truck	Trailer
Vehicle Version Number:	V 2.0	V 2.00
Body Overall Length (in):	307.75	402.40
Body CG To Front (in):	158.75	250.00
Body CG To Rear (in):	-149.00	-152.40
Body Overall Width (in):	96.00	96.00
CG Elevation (in):	45.35	35.13
Roll Couple Dist:	0.20	0.55
Total Weight (lb):	22449.84	9049.87
Total Mass (lb-sec <sup>2</sup> /in):	58.10	23.42
Yaw Inertia (lb-sec <sup>2</sup> -in):	658984.75	336384.41
3-D Geometry Filename:	Centraldumplv1.iv	CBridgeTrailerIV1.iv
Number of Vertices:	5002	1997
Number of Damaged Vertices:	446	0

	A Stiff (lb/in)	B Stiff (lb/in <sup>2</sup> )	A Stiff (lb/in)	B Stiff (lb/in <sup>2</sup> )
Front End:	1000.0	250.0	1000.0	250.0
Right Side:	1000.0	250.0	1000.0	250.0
Back End:	1000.0	250.0	1000.0	250.0
Left Side:	1000.0	250.0	1000.0	250.0

----- WHEEL AND TIRE DATA -----

Wheels & Tires, Front Axle --	Right	Left	Right	Left
Wheel Locn (in) - x:	117.70	128.10	68.25	68.25
y:	40.75	-40.75	36.00	-36.00
z:	24.00	24.00	20.70	20.70
Tire Name:	Generic Rib	Generic Rib	Generic	Generic
Tire Size:	11.00R20H	11.00R20H	LT235/75R15	LT235/75R15
Inner-dual Space (in):			13.50	13.50
Slide Mu (*):	0.55	0.55	0.60	0.60
Vel Dependence (sec/in):	-0.00031	-0.00031	0.00000	0.00000
Cornering Stiffness (lb/deg):	-580.99	-580.99	-220.00	-220.00

Second Axle --	Right	Left	Right	Left
Wheel Locn (in) - x:	-62.05	-62.05	-28.40	-28.40
y:	36.25	-36.25	36.00	-36.00
z:	24.00	24.00	20.70	20.70
Tire Name:	Generic Rib	Generic Rib	Generic	Generic
Tire Size:	11.00R20H	11.00R20H	LT235/75R15	LT235/75R15
Inner-dual Space (in):	12.88	12.88	13.50	13.50
Slide Mu (*):	0.55	0.55	0.60	0.60
Vel Dependence (sec/in):	-0.00031	-0.00031	0.00000	0.00000
Cornering Stiffness (lb/deg):	-580.99	-580.99	-220.00	-220.00

Third Axle --      Right      Left  
Wheel Lochn (in) - x:   -112.55   -112.55  
                         y:    36.25   -36.25  
                         z:    24.00   24.00  
Tire Name:Generic Rib Generic Rib  
Tire Size: 11.00R20H 11.00R20H  
Inner-dual Space (in):    12.88    12.88  
Slide Mu (\*):    0.55    0.55  
Vel Dependence (sec/in):   -0.00031   -0.00031  
Cornering Stiffness (lb/deg):   -580.99   -580.99

----- VEHICLE DATA -----

Vehicle Name:International Loadstar B Class 2 Fixed Barrier  
Vehicle Type:                      Truck                      Fixed Barrier  
Vehicle Version Number:                      V 2.00                      V 1.00  
Body Overall Length (in):                      431.30                      24.00  
Body CG To Front (in):                      187.66                      12.00  
Body CG To Rear (in):                      -243.64                      -12.00  
Body Overall Width (in):                      90.50                      24.00  
CG Elevation (in):                      25.35                      125.00  
Roll Couple Dist:                      0.20  
Total Weight (lb):                      20491.95                      386400000.00  
Total Mass (lb-sec^2/in):                      53.03                      1000000.00  
Yaw Inertia (lb-sec^2-in):                      875300.75                      1000000.00  
3-D Geometry Filename:                      centraltestbus.h3d                      SteelPole2Ft.h3d  
Number of Vertices:                      5766                      34  
Number of Damaged Vertices:                      313                      8

	A Stiff	B Stiff	A Stiff	B Stiff
	(lb/in)	(lb/in^2)	(lb/in)	(lb/in^2)
Front End:	1000.0	250.0	1000.0	1000.0
Right Side:	1000.0	250.0	1000.0	1000.0
Back End:	1000.0	250.0	1000.0	1000.0
Left Side:	1000.0	250.0	1000.0	1000.0

----- WHEEL AND TIRE DATA -----

Wheels & Tires, Front Axle --      Right      Left  
Wheel Lochn (in) - x:    154.86    154.86  
                         y:    35.75   -35.75  
                         z:    4.00    4.00  
Tire Name:Generic Rib Generic Rib  
Tire Size: 11.00R20H 11.00R20H  
Slide Mu (\*):    0.55    0.55  
Vel Dependence (sec/in):   -0.00031   -0.00031  
Cornering Stiffness (lb/deg):   -580.99   -580.99

Second Axle --      Right      Left  
Wheel Lochn (in) - x:   -99.14   -99.60  
                         y:    32.00   -32.00  
                         z:    4.00    4.00  
Tire Name:Generic Rib Generic Rib  
Tire Size: 11.00R20H 11.00R20H

Inner-dual Space (in):	13.50	13.50
Slide Mu (*):	0.55	0.55
Vel Dependence (sec/in):	-0.00031	-0.00031
Cornering Stiffness (lb/deg):	-580.99	-580.99

-----DRIVER CONTROL TABLES -----

Driver Controls for Freightliner FLD 120

Steer Table:

Time (sec)	R/F (deg)	L/F (deg)	R/R (deg)	L/R (deg)	R/T (deg)	L/T (deg)
0.0000	0.00	0.00	0.00	0.00	0.00	0.00
1.5000	-1.61	-1.61	0.00	0.00	0.00	0.00
2.0000	-1.61	-1.61	0.00	0.00	0.00	0.00
2.9000	-1.61	-1.61	0.00	0.00	0.00	0.00
3.0000	-3.57	-3.57	0.00	0.00	0.00	0.00
5.2000	3.57	3.57	0.00	0.00	0.00	0.00
6.2000	3.57	3.57	0.00	0.00	0.00	0.00
7.2000	3.57	3.57	0.00	0.00	0.00	0.00

Throttle Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)	R/T (%/100)	L/T (%/100)
0.0000	0.00	0.00	0.00	0.00	0.00	0.00

Brake Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)	R/T (%/100)	L/T (%/100)
0.0000	0.00	0.00	0.00	0.00	0.00	0.00
0.7500	0.00	0.00	0.00	0.00	0.00	0.00
1.2500	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58
2.8000	-0.58	-0.58	-0.58	-0.58	-0.58	-0.58
2.9000	-0.01	-0.01	-1.00	-1.00	-1.00	-1.00
3.1000	-0.01	-0.01	-1.00	-1.00	-1.00	-1.00
3.2000	-0.01	-0.01	-0.02	-0.02	-0.02	-0.02

Driver Controls for Class 3 Trailer

Steer Table:

Time (sec)	R/F (deg)	L/F (deg)	R/R (deg)	L/R (deg)
0.0000	0.00	0.00	0.00	0.00

Throttle Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)
0.0000	0.00	0.00	0.00	0.00

Brake Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)
0.0000	0.00	0.00	0.00	0.00
0.7500	0.00	0.00	0.00	0.00
1.2500	-1.00	-1.00	-1.00	-1.00
3.2000	-1.00	-1.00	-1.00	-1.00

3.3000	-1.00	-1.00	-1.00	-1.00
4.0000	-1.00	-1.00	-1.00	-1.00
4.1000	-0.01	-0.01	-0.01	-0.01
4.8000	-0.01	-0.01	-0.01	-0.01
4.9000	-0.01	-0.01	-1.00	-1.00
5.5000	-0.01	-0.01	-1.00	-1.00
5.6000	-0.01	-0.01	-0.01	-0.01

Driver Controls for International Loadstar Bus  
Steer Table:

Time (sec)	R/F (deg)	L/F (deg)	R/R (deg)	L/R (deg)
0.0000	0.00	0.00	0.00	0.00
2.7000	0.00	0.00	0.00	0.00
2.8000	0.00	0.00	0.00	0.00
2.9000	-12.86	-12.86	0.00	0.00
4.9000	0.00	0.00	0.00	0.00

Throttle Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)
0.0000	0.00	0.00	0.00	0.00

Brake Table:

Time (sec)	R/F (%/100)	L/F (%/100)	R/R (%/100)	L/R (%/100)
0.0000	0.00	0.00	0.00	0.00
4.8000	0.00	0.00	0.00	0.00
4.9000	-0.37	-0.37	-0.37	-0.37