

## LiquidSpring CLASS® Application Guide

### Motor Home Application

Key:  
 CAB: Reg – Regular Cab, Ext – Extended (Super) Cab, CC – Crew Cab  
 Fuel Tank Location: M – Midship, R – Rear (aft of axle)  
 OnSpot Chain System Availability: Sway bars may need to be removed (if installed). Please contact OnSpot for exact part numbers and directions.

### Ford

#### E-350/450 Cutaway (not van/wagon) and Strip Rail Chassis

Model	Model Years	Rear Axle GAWR	Cab/WB/CA	Fuel Tank Location	LiquidSpring Kit	OnSpot Avail?	Comments
E450	2006 – Current	9600	Cutaway/158.0"/100.0" Cutaway/176.0"/118.0"	M,R	DS96FS2M (Late Availability)	No	

#### F-550 Cab Chassis

Model	Model Years	Rear Axle GAWR	Cab/WB/CA	Fuel Tank Location	LiquidSpring Kit	OnSpot Avail?	Comments
F550 4x2, 4x4 17,500 GVW	2017 – newer	13660	Reg/169.3"/84"	M*,R	DS137FS3M (Late Availability)	Yes	CLASS system will NOT work with midship fuel tank on 84" and 108" CA.
			Reg/193.3"/108"				
			Reg/205.3"/120"				
			Ext/191.9"/84"				
	2011 – 2016	13660	Reg/164.8"/84"	M*,R	DS137FS2M	Yes	
			Reg/188.8"/108"				
			Reg/200.8"/120"				
			Ext/185.8"/84"				
F550 4x2, 4x4 19,500 GVW	2017 - newer	14706	Reg/164.8"/84"	M*,R	DS147FS3M (Late Availability)	Yes	CLASS system will NOT work with midship fuel tank on 84" and 108" CA.
			Reg/188.8"/108"				
			Reg/200.8"/120"				
			Ext/185.8"/84"				
			CC/200.2"/84"				

\*DEF tank may have to be relocated when LiquidSpring system is installed on diesel with mid-ship tank.

#### F-650 Cab Chassis

Model	Model Years	Rear Axle GAWR	Rear Axle Model	Cab/WB/CA	Brakes	OEM Susp.	OnSpot Avail?	LiquidSpring Kit	Comments
F650 Straight Frame	2016 – Current	17,500	Dana S17-140	Reg/182"/108" And Greater	Hyd. only	Up to 17,500 Rear Steel Leaf	Yes (Hyd. Brakes only)	DS175F650SR- SHM (Late Availability)	Suspension is rated up to 17500 lbs GAWR.
				Ext/203"/108" And Greater					
				CC/218"/108" And Greater					
		19,000	Dana S19-140	Reg/182"/108" And Greater	Hyd. only	Up to 19,000 Rear Steel Leaf	Yes (Hyd. Brakes only)	DS190F650SR- SHM (Late Availability)	Suspension is rated up to 19000 lbs GAWR.
				Ext/203"/108" And Greater					
				CC/218"/108" And Greater					

Please provide LiquidSpring with either vehicle specification sheet or build sheet during time of order to assure proper suspension configuration is selected.

### F53 Strip Rail Chassis

Model	Model Years	Rear Axle GAWR	Rear Axle Model	WB	Brakes	OEM Susp.	OnSpot Avail?	LiquidSpring Kit	Comments
F53 16K GVW	2011 - newer	11,000	Dana 80	158.3", 176.3", 190.3"	Hyd.	Steel Leaf	No	DS120F53 (Available mid-late 2017)	
F53 18K GVW		12,000	Dana 80	178.2", 190.2", 208.2", 228.2"			No	DS120F53 (Available mid-late 2017)	
F53 20.5K GVW		13,500	Dana S13-110	208.1", 228.1"			No	DS135F53 (Available mid-late 2017)	
F53 22K GVW		15,000	Dana S16-130	208.3", 228.3", 242.3"			No	DS150F53	
F53 24K GVW		15,500	Dana 17060S	242.3", 252.3"			No	DS175F53 (Available mid-late 2017)	
F53 26K GVW		17,500	Dana 17060S	242.3", 252.3"			No	DS175F53 (Available mid-late 2017)	

## Freightliner

Model	Model Years <sup>2</sup>	Rear Axle GAWR <sup>3</sup>	Frame	Brakes	Exhaust Routing <sup>1</sup>	Fuel Tank Location	OEM Susp.	LiquidSpring Kit	OnSpot Avail?	Comments
M2 106 2WD  Also fits: MB-65 S2 S2C	2005 - Current	<b>Up to 15000</b>  Meritor: MS-17-14X  Detroit: DA-RS-17.5-4 DA-RS-17.5-2 DS-RS-15.0-2 <sup>3</sup>	546-020 546-021 546-094 546-093 546-099 546-100	Hyd. Only	Any	Any	Steel Leaf: 622-1MA 622-1MB 622-1MC 622-1MD 622-1ME 622-1MT	DS150FR-SM	Yes (Hyd. Brakes only)	Volumes and power module located behind rear axle (requires minimum of 62" rear overhang).
					Any	Side-under cab		DS150FR-SSM	Yes (Hyd. Brakes only)	Volumes located along side frame rails, between cab and rear axle.
				Hyd./ Air	Any	Forward (in front of rear axle)	Air Susp: 622-1CW 622-1CX 622-1CY	DS150FR-AM	Yes (Hyd. Brakes only)	Volumes and power module located behind rear axle (requires minimum of 62" rear overhang).
					Driver side	Aft of Axle		DS150FR-ARM	Yes	Volumes located along side frame rails, between cab and rear axle. Power Module inside frame, Passenger Side
					Passenger side	Aft of Axle		DS150FR-AREPM	Yes	Volumes located along side frame rails, between cab and rear axle. Power Module inside frame, Driver Side

### Notes:

<sup>1</sup>Exhaust routing refers to location of exhaust routed from engine, not tail pipe exit.

<sup>2</sup>On 2005-2011 vehicles, kit **11355** (steering sensor mounting) **MUST** be ordered.

<sup>3</sup>With Detroit Axle DA—RS-15.0-2 rear axle, kit **11337** (for steel leaf spring conversion) or kit **11338** (for air ride conversion) **MUST** be ordered.

### All Freightliner kits require the following codes:

Vehicle Interface Lighting (one of the locations):	<b>353-022</b> Vehicle interface wiring with body builder connector mounted back of cab. <b>353-023</b> Vehicle interface wiring with body builder connector mounted end of frame. <b>353-026</b> Vehicle interface wiring and PDM with body builder connector, back of cab. <b>353-027</b> Vehicle interface wiring and PDM with body builder connector, end of frame.
Transmission Interface Connector (one of the locations):	<b>34C-001</b> Transmission Interface Harness at the Front Wall <b>34C-002</b> Transmission Interface Harness at Back of Cab

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## General Motors (Chevrolet/GMC)

### Express/Savana G-Series Cutaway (not van/wagon)

Model	Model Years	Rear Axle GAWR	Cab/WB/CA	Fuel Tank Location	LiquidSpring Kit	OnSpot Avail?	Comments
G3500: G33503 G33803 G33903	2013 - Current	8600	Cutaway/139"/80" Cutaway/159"/100.0" Cutaway/177"/118.0"	R	DS96GM2M (Late Availability)	No	
G4500: G33803 G33903	2013 - Current	9600	Cutaway/159"/100.0" Cutaway/177"/118.0"	R	DS96GM2M (Late Availability)	No	

## Ram

### 5500 Cab Chassis

Model	Model Years	Rear Axle GAWR	Cab/WB/CA	Fuel Tank Location	LiquidSpring Kit	OnSpot Avail?	Comments
5500 4x2, 4x4	2014 - Current	13500	Reg/168.5"/84" Reg/192.5"/108" Reg/204.5"/120" CC/197.4"/84"	R	DS135RS2M	Yes	Must include the <b>XXS</b> VSIM option