

FONTAINE FIFTH WHEEL  
**APPLICATION GUIDE**



[www.fifthwheel.com](http://www.fifthwheel.com)

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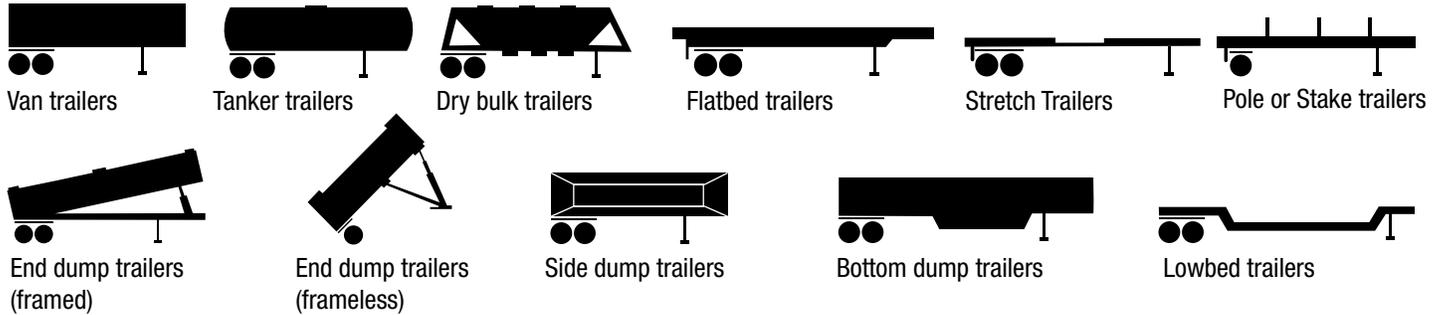
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# Important notes



## Top plate selection notes:

- For the Fontaine Top Plate selection guide see page 4-5. Air activated release styles are available on the No-Slack® 6000, 7000, 7000CC series top plates.

## Mount selection notes:

- See page 6 when choosing a Fontaine sliding mount or stationary mount for your top plate and application.
  - Stationary mount fifth wheels (plate or angle mounts) are an option and ideal for applications where the trailer kingpin position, kingpin weight, axle loading and vehicle length are constant or consistent when loaded. Stationary mount fifth wheels are usually lighter than sliding mount fifth wheels.
  - A sliding mount gives the owner more options. You can transfer weight between tractor axles, handle trailers with different kingpin settings, and vary vehicle combination lengths. A sliding mount fifth wheel also provides additional maneuverability, accommodates trailers with short landing gear clearance and allows the driver to extend the unit for maximum comfort when weight allows. The flexibility of sliding mount fifth wheels should increase the resale value of your truck.

## Important application notes:

- If your application exceeds the specified limits for GCW, road type, travel type, or axle count for a particular duty class, you must select the next higher duty class. See page 7 for duty class restrictions.
- When selecting a fifth wheel, if the application or vehicle usage places the maximum capacity on a certain fifth wheel, then the selection of a fifth wheel with a higher capacity is advised. For example, a tractor that is at a maximum vertical load of 50,000 lbs in a standard duty application should be using a fifth wheel with a vertical load capacity of 55,000 lbs or greater. This additional capacity should give better service life over a longer period of time.

## Special applications:

- **All logging, mining and oil field applications are considered severe duty. Do not select assemblies in the standard on-highway, standard or moderate levels when a special application is designated.**



### Minimum static load warning:

- Minimum static load warning!!! The trailer that is attached to the fifth wheel should impose a consistent vertical load. Repeated negative loading (trying to pull the fifth wheel off of the brackets with the kingpin) is not allowed. A minimum static load applied to the fifth wheel through the trailer is 10% of the gross trailer weight. See the load rating for the specific fifth wheel for maximum vertical load values.

Important: Contact your OEM or Fontaine Fifth Wheel for more information on the right fifth wheel for your application. Please refer to the Fontaine Fifth Wheel [warranty statement](#) for important warranty information. Selecting assemblies in conflict with this application guide without prior written approval from Fontaine engineering voids all warranties.

# Choosing the right fifth wheel Top Plates

## No-Slack® 6000 Series

Standard Duty On-Highway (See page 8 • Standard Duty (See page 9)  
50,000 lbs vertical load

- High strength alloy steel housing
- No-Slack® locking technology automatically self-adjusts to the trailer kingpin for a smoother ride, lower maintenance costs and longer component life
- Combined with the NWB Air Slide this fifth wheel is 40-70 lbs lighter than competitive systems
- Performance options include SmartConnect, Air Cab Release



Model # **SCTPL6000**  
SmartConnect driver side handle  
Model # **ACTPL6000**  
SmartConnect air cab release



Model # **SLTPL6000**  
Driver side handle release  
Model #: **AATPL6000**  
Air actuated cab release

## No-Slack® 7000 series and 7000CC (Clean Connect)

Standard Duty On-Highway (See page 8)  
Standard and Moderate Duty (See page 9 and 10)  
55,000 lbs vertical load

- Durable cast steel design provides greater capacity and vertical load
- No-Slack® locking technology automatically self-adjusts to the trailer kingpin for a smoother ride, lower maintenance costs and longer component life
- No-tilt fifth wheel options accommodate frameless dump applications
- 7000CC models feature lube-free top plate that no longer requires grease to lubricate between top plate surface and trailer coupling plate
- Performance options include No-Tilt, SmartConnect and Air Cab Release



Model # **SCTPL7000**  
SmartConnect driver side handle  
Model # **ACTPL7000**  
SmartConnect air cab release



Model # **SCTPL7000CC**  
SmartConnect driver side handle  
Model # **ACTPL7000CC**  
SmartConnect air cab release



Model # **SLTPL7000**  
Driver side handle release  
Model # **AATPL7000**  
Air actuated cab release



Model # **SLTPL7000CC**  
Driver side handle release  
Model # **AATPL7000CC**  
Air actuated cab release

## No-Slack® H7 Heavy Duty Series

Heavy / Severe Duty (See page 11)  
70,000 lbs vertical load

- Reinforced cast steel design designed for severe-duty applications
- No-Slack® locking technology automatically self-adjusts to the trailer kingpin for a smoother ride, lower maintenance costs and longer component life
- No-tilt fifth wheel options accommodate frameless dump applications



Model # **SLTPLH7**  
Driver side handle

# Choosing the right fifth wheel

## Specialty Top Plates



### No-Slack® D Series Dolly Fifth Wheel

Standard Duty On-Highway (See page 8)

Standard Duty (See page 9)

55,000 lbs vertical load

- Durable cast steel design provides greater capacity and vertical load
- No-Slack® locking technology automatically self-adjusts to the trailer kingpin for a smoother ride, lower maintenance costs and longer component life
- Drop-handle design with added reinforcement to protect the pull handle and adjusting rod if the driver misses the mark and the kingpin slides around the top plate.
- D7000 is used only on the FMA and FMAH mounts for converter dolly applications



Model # **SLDTPL7000**  
Driver side handle  
Dolly Fifth Wheel

### CD700 Custom Duty Fifth Wheel

Specialty Designed for Car Hauler and Light Commercial Applications

25,000 lbs vertical load

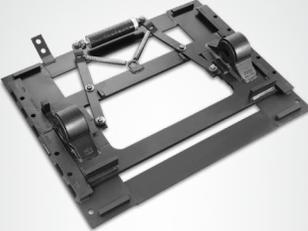
- Use where weight and space are an issue
- Couples to 2 inch kingpin
- Available in air slide or stationary assemblies
- Very simple to operate and maintain



# Choosing the right fifth wheel Mounting Options

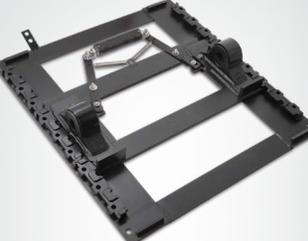
## Fontaine Air Slide Mounting Brackets

**NWB**



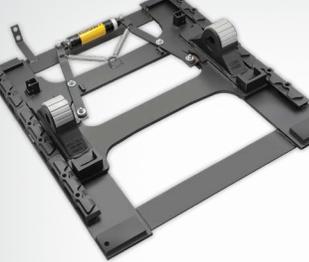
**Standard duty on-highway air slides**  
Model 6NWB (6000 top plate)  
Model 7NWB (7000 top plate)  
Model CNWB (7000CC top plate)

**LWB**



**Standard and moderate duty air slides**  
Model 6LWB (6000 top plate)  
Model 7LWB (7000 top plate)  
Model CLWB (7000CC top plate)

**HDS**



**HDS heavy / severe duty air slides**  
Model 7HDS (7000 top plate)  
Model H7HDS (H7 top plate)

**NHDS** Comes with No-Tilt hardware



**NHDS No-tilt heavy / severe duty slides**  
Model 7NHDS (7000 top plate)  
Model H7NHDS (H7 top plate)

## Fontaine Stationary Mounts

**FMA**



**Standard duty on-highway and standard duty brackets for converter dollies**  
Model 7FMA (7000 top plate)  
Model CFMA (7000CC top plate)  
Model D7FMA D7000 top plate for converter dollies

**FMAH**



**Standard duty on-highway and standard duty brackets for converter dollies**  
Model 7FMAH (7000 top plate)  
Model CFMAH (7000CC top plate)  
Model D7FMAH D7000 top plate for converter dollies

**PML**



**Standard duty on-highway and standard duty plates**  
Model 6PML (6000 top plate)  
Model 7PML (7000 top plate)  
Model CPML (7000CC top plate)

**PMH  
PMX**



*PMH (37-1/4" centers)  
PMX (38" centers)*

**Heavy / severe duty plates**  
Model 7PMH (7000 top plate)  
Model H7PMH (H7 top plate)  
Model 7PMX (7000 top plate)  
Model H7PMX (H7 top plate)

**NPMH  
NPMX** Comes with No-Tilt hardware



*NPMH (37-1/4" centers)  
NPMX (38" centers)*

**No-tilt heavy / severe duty plates**  
Model 7NPMH (7000 top plate)  
Model H7NPMH (H7 top plate)  
Model 7NPMX (7000 top plate)  
Model H7NPMX (H7 top plate)

# Duty Class Restrictions



With the Fontaine Fifth Wheel complete product line you can easily select the perfect fifth wheel for your application. We offer top plates and mounting options in a wide variety of sizes to handle even the most demanding applications.

To choose the right fifth wheel assembly for your application, three factors must be considered: the maximum anticipated GCW (gross combination weight), the vertical load imposed on the fifth wheel assembly, and the service conditions of your specific application.

The duty class restriction charts on this page will help you identify the correct duty class for your application.

After choosing the proper duty class, refer to the application charts on pages 8-11 to choose a top plate and lower mount option available for that duty class and your trailer type.

Top plate options listed on page 4 and 5 will provide further information on top plates and mounting options listed on page 6 will give you more information on mounting options.

If you need further assistance contact Fontaine Fifth Wheel at: 800-874-9780.

Standard Duty On-Highway	
<b>Max GCW</b>	Up to 95,000 lbs (43,000 kgs) gross combination weight (GCW)
<b>Road type</b>	100% on-highway application on maintained concrete or asphalt roads
<b>Travel type</b>	More than 30 miles between each couple
<b>Axle limitation</b>	Maximum number of towed axles equals 3

Standard Duty	
<b>Max GCW</b>	Up to 115,000 lbs (52,000 kgs) gross combination weight (GCW)
<b>Road type</b>	Less than 10% off-highway application on maintained concrete, asphalt, gravel or crushed rock roads
<b>Travel type</b>	No minimum mileage between couples
<b>Axle limitation</b>	Maximum number of towed axles equals 4

Moderate Duty	
<b>Max GCW</b>	Up to 166,000 lbs. (75,296 kgs) gross combination weight (GCW)
<b>Road type</b>	Less than 10% off-highway application on maintained concrete, asphalt, gravel or crushed rock roads
<b>Travel type</b>	No minimum mileage between couples.
<b>Axle limitation</b>	No axle limitations

Heavy / Severe Duty	
<b>Max GCW</b>	Up to 180,000 lbs. (81,647 kgs) gross combination weight (GCW)
<b>Road type</b>	Any off-highway application on all road types including non-maintained roads
<b>Travel type</b>	No minimum mileage between couples
<b>Axle limitation</b>	No axle limitations
<b>Special applications</b>	All logging, mining and oil field applications fall into this category regardless of anticipated weight, road type or number of axles



On-line selection guide is available.  
Scan code or go to: [www.fifthwheel.com](http://www.fifthwheel.com)

# Applications

## Standard Duty On-Highway

<b>Max GCW</b>	See GCW <sup>1</sup> ratings in table below
<b>Road type</b>	100% on-highway <sup>2</sup> 0% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type</b>	More than 30 miles between each couple
<b>Axle limitation</b>	Maximum number of towed axles equals 3

1 GCW = gross combined weight of tractor, trailer, and maximum payload

2 On-highway = maintained asphalt or concrete roads only

3 Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

4 Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate	6000		7000		7000CC		D7000 for converter dollies
	Stationary	Sliding	Stationary	Sliding	Stationary	Sliding	
<b>Maximum Gross Combined Weight (GCW)<sup>1</sup></b>	115,000 lbs (52,000 kg)	95,000 lbs (43,000 kg)	115,000 lbs (52,000 kg)	95,000 lbs (43,000 kg)	115,000 lbs (52,000 kg)	95,000 lbs (43,000 kg)	115,000 lbs (52,000 kg)
<b>Maximum Vertical Load</b>	50,000 lbs (22,700 kg)		55,000 lbs (25,000 kg)		55,000 lbs (25,000 kg)		55,000 lbs (25,000 kg)
<b>Mounting Style</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>
<b>Trailer Type</b>							
Van Trailers 	PML	NWB	PML	NWB	PML	NWB	–
Tanker & Dry Bulk Trailers 	PML	NWB	PML	NWB	PML	NWB	–
Flatbed, Stretch & Pole Trailers 	PML	NWB	PML	NWB	PML	NWB	–
End Dump (Framed Trailers) 	SEE MODERATE, HEAVY / SEVERE DUTY						
End Dump (Frameless) Trailers 							
Side Dump Trailers 							
Bottom Dump Trailers 							
Lowboy Trailers 	–	–	PML	NWB	PML	NWB	–
<b>B-Trains</b>							
Van, Flatbed & Stretch Trailers 	PML	NWB	PML	NWB	PML	NWB	–
Tank & Dry Bulk Trailers 	PML	NWB	PML	NWB	PML	NWB	–
Bottom Dump Trailers 	SEE MODERATE, HEAVY / SEVERE DUTY						
Side Dump Trailers 							
<b>Conversion Trailers</b>							
Converter Dollies 	–	–	–	–	–	–	FMA FMAH

# Applications

## Standard Duty



<b>Max GCW</b>	See GCW <sup>1</sup> ratings in table below
<b>Road type</b>	90% on-highway <sup>2</sup> 10% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type</b>	No minimum mileage between couples
<b>Axle limitation</b>	Maximum number of towed axles equals 4

1 GCW = gross combined weight of tractor, trailer, and maximum payload

2 On-highway = maintained asphalt or concrete roads only

3 Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

4 Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate	6000		7000		7000CC		D7000 for converter dollies	
	Stationary	Sliding	Stationary	Sliding	Stationary	Sliding	Stationary	
<b>Maximum Gross Combined Weight (GCW)<sup>1</sup></b>	115,000 lbs (52,000 kg)							
<b>Maximum Vertical Load</b>	50,000 lbs (22,700 kg)		55,000 lbs (25,000 kg)		55,000 lbs (25,000 kg)		55,000 lbs (25,000 kg)	
<b>Mounting Style</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	
<b>Trailer Type</b>								
Van Trailers 	PML	LWB	PML	LWB	PML	LWB	–	
Tanker & Dry Bulk Trailers 	PML	LWB	PML	LWB	PML	LWB	–	
Flatbed, Stretch & Pole Trailers 	PML	LWB	PML	LWB	PML	LWB	–	
End Dump (Framed Trailers) 	SEE HEAVY / SEVERE DUTY		PML	LWB	PML	LWB	–	
End Dump (Frameless) Trailers 								
Side Dump Trailers 								
Bottom Dump Trailers 			–	–	PML	LWB	PML	LWB
Lowboy Trailers 	–	–	PML	LWB	PML	LWB	–	
<b>B-Trains</b>								
Van, Flatbed & Stretch Trailers 	PML	LWB	PML	LWB	PML	LWB	–	
Tank & Dry Bulk Trailers 	PML	LWB	PML	LWB	PML	LWB	–	
Bottom Dump Trailers 	–	–	PML	LWB	PML	LWB	–	
Side Dump Trailers 	SEE HEAVY / SEVERE DUTY							
<b>Conversion Trailers</b>								
Converter Dollies 	–	–	–	–	–	–	FMA FMAH	

# Applications

## Moderate Duty

<b>Max GCW</b>	See GCW <sup>1</sup> ratings in table below
<b>Road type</b>	90% on-highway <sup>2</sup> 10% off-highway maintained <sup>3</sup> 0% off-highway <sup>4</sup>
<b>Travel type</b>	No minimum mileage between couples
<b>Axle limitation</b>	No axle limitations

1 GCW = gross combined weight of tractor, trailer, and maximum payload

2 On-highway = maintained asphalt or concrete roads only

3 Off-highway maintained = well maintained asphalt, concrete, gravel or crushed stone roads only

4 Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate		7000		7000CC	
<b>Maximum Gross Combined Weight (GCW)<sup>1</sup></b>		166,000 lbs (75,296 kgs)		140,000 lbs (63,600 kgs)	
<b>Maximum Vertical Load</b>		55,000 lbs (25,000 kg)		55,000 lbs (25,000 kg)	
<b>Mounting Style</b>		<b>Stationary</b>	<b>Sliding</b>	<b>Stationary</b>	<b>Sliding</b>
<b>Trailer Type</b>					
Van Trailers 		PMH PMX	HDS	PMH PMX	HDS
Tanker & Dry Bulk Trailers 		PMH PMX	HDS	PMH PMX	HDS
Flatbed, Stretch & Pole Trailers 		PMH PMX	HDS	PMH PMX	HDS
End Dump (Framed Trailers) 		NPMH NPMX	HDS	-	-
End Dump (Frameless) Trailers 		-	NHDS	-	-
Side Dump Trailers 		SEE HEAVY / SEVERE DUTY			
Bottom Dump Trailers 		-	-	-	-
Lowboy Trailers 		-	-	-	-
<b>B-Trains</b>					
Van, Flatbed & Stretch Trailers 		PMH PMX	HDS	PMH PMX	HDS
Tank & Dry Bulk Trailers 		PMH PMX	HDS	PMH PMX	HDS
Bottom Dump Trailers 		-	-	-	-
Side Dump Trailers 		SEE HEAVY / SEVERE DUTY			

# Applications

## Heavy / Severe Duty



<b>Max GCW</b>	See GCW <sup>1</sup> ratings in table below
<b>Road type</b>	Any off-highway <sup>2</sup> application on all road types including non-maintained roads
<b>Travel type</b>	No minimum mileage between couples
<b>Axle limitation</b>	No axle limitations
<b>Special applications</b>	All logging, mining and oil field applications fall into this category regardless of anticipated weight, road type or number of axles

1 GCW = gross combined weight of tractor, trailer, and maximum payload

2 Off-highway = Poorly and un-maintained Roadways - No Restrictions



Top Plate		H7	
<b>Maximum Gross Combined Weight (GCW)<sup>1</sup></b>		180,000 lbs (81,700 kg)	
<b>Maximum Vertical Load</b>		70,000 lbs (31,800 kg)	
<b>Mounting Style</b>		<b>Stationary</b>	<b>Sliding</b>
Trailer Type			
Van Trailers		PMH PMX	HDS
Tanker & Dry Bulk Trailers		PMH PMX	HDS
Flatbed, Stretch & Pole Trailers		PMH PMX	HDS
End Dump (Framed Trailers)		PMH PMX	HDS
End Dump (Frameless) Trailers		NPMH NPMX	NHDS
Side Dump Trailers		PMH PMX	HDS
Bottom Dump Trailers		PMH PMX	HDS
Lowboy Trailers		PMH PMX	HDS
B-Trains			
Van, Flatbed & Stretch Trailers		PMH PMX	HDS
Tank & Dry Bulk Trailers		PMH PMX	HDS
Bottom Dump Trailers		PMH PMX	HDS
Side Dump Trailers		PMH PMX	HDS

# Frequently Asked Questions

## What is the warranty coverage?

Fontaine's warranty is for five years covering parts for material and workmanship. There are a few exceptions. See our existing warranty statement or call us at 800-874-9780 for more information. Warranty document is at [www.fifthwheel.com](http://www.fifthwheel.com) (Choose "Support" and then "Warranty").

## What is the recommended maintenance procedure?

Recommended maintenance is at least every 90 days or 50,000 miles. All recommended practices are located in the Fifth Wheel Handbook supplied with every unit shipped or may be obtained at [www.fifthwheel.com](http://www.fifthwheel.com) (Choose "Support" and then "Helpful information" LT-001 Instruction Handbook).

## What if my fifth wheel is hard to open?

Make sure a pre-service lubrication has been completed before unit is put in service. Make sure the driver is backing tight against the trailer after setting the trailer brakes. This will reduce any tension or pressure on the locking jaw and wedge. **DO NOT dump chassis air bags before uncoupling from trailer.** Make sure the wedge-stop rod is properly set to the recommended gap. Make sure the truck and trailer are not in a bind or twist (No daylight between top plate and trailer plate). Check for any lower mount obstructions or interference underneath the wheel. Check for damage to the fifth wheel.

## Can I change the height of my fifth wheel?

Changing fifth wheel height can be as simple as changing the brackets. It all depends on the type of application, style of fifth wheel and the type of existing base. These factors will determine just how high or low you can go.

## How much wear is allowed for a kingpin?

According to SAE J2228 - Kingpin Wear Limits, if the upper shoulder which is 2.875" new or the smaller 2" diameter is worn more than .125 (1/8)" the kingpin should be replaced.

## Does Fontaine provide a kingpin tool?

Yes! Go to "[www.fifthwheel.com/wtb](http://www.fifthwheel.com/wtb)" to find out where you can purchase the No-Slack® test kingpin tool near you (part number KITKPT).



No-Slack® test kingpin  
KITKPT

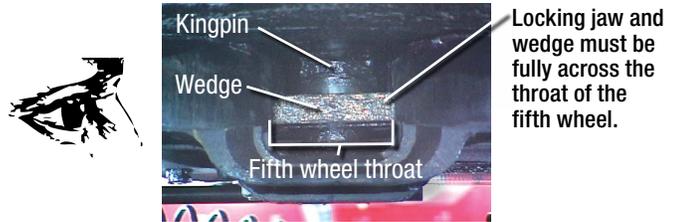
## How can I tell if my fifth wheel is properly locked?

Verify secure coupling with a "tug test", by easing the tractor forward, with the trailer brakes on, to feel resistance of the load. Set the parking brakes on the tractor and trailer and get out of the tractor and visually inspect, using a flashlight, that the fifth wheel is properly closed.

**IMPORTANT: Improperly coupled fifth wheel may in some circumstances be able to pass a "tug test". A visual inspection is always required.**

**The locking jaw and wedge must be fully across the throat of the fifth wheel, there must be no gap between the fifth wheel and the trailer plate, and the pull handle must be within 1" or less from the skirt of the fifth wheel. All three areas of the fifth wheel must be inspected to ensure that the fifth wheel is properly coupled.**

**Below are three critical areas of visual inspection that drivers must perform after every couple.**



**If the visual inspection indicates that you failed to obtain a proper couple, open the fifth wheel, inspect for damaged components, and repeat the coupling sequence.**

## Popular Literature



[Warranty Statement \(LT-077\)](#)



[Fifth Wheel Product Catalog \(LT-044\)](#)



[Fifth Wheel Aftermarket Parts Catalog \(LT-135\)](#)



[Heavy/Severe Duty Catalog \(LT-322\)](#)

**IMPORTANT** – Read and follow all product instructions before installation, use, and performing maintenance. Instructions available at [www.fifthwheel.com](http://www.fifthwheel.com). Specifications subject to change without notice.



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