Fontaine Parts Connection
Service Training Catalog

Fontaine International:
- A global leader in the manufacture of fifth wheel coupling device
- Recognized technology leader in the fifth wheel industry
- More than 60 years of experience
- Broadest product line: cast steel, cast iron and stamped steel top plates

Fontaine No-Slack®
The world's only self-adjusting fifth wheel Lock

Patented No-Slack® lock is self-adjusting to give you a snug, secure connection every time you couple

Clean Connect™ reduces friction between the top plate and the trailer plate which improves steering and increases tire life (available on 7000CC series)

Patented secondary lock provides added safety and security

Steel construction with 28% larger surface contact area for greater strength and stability

StraightShot™ pull handle is the easiest to operate in the industry—no complicated opening sequence to remember

Optional in-cab air release only opens when the parking brake is set

Patented safety trigger eliminates high-hitching to reduce tractor, trailer and tire damage

7000CC Series
Clean Connect Cast Steel

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CONNECT YOUR BUSINESS WITH FONTAINE®
Fontaine No-Slack®
The world's only self-adjusting fifth wheel lock

- Patented No-Slack® design automatically resets the lock to accommodate wear
  - Switch from trailer to trailer hassle-free
  - Reduces shock inputs into the frame when braking and accelerating
  - Improves driver comfort
  - Reduces driver complaints
  - Extends service life of other components

- Patented safety trigger eliminates high-hitching
  - Reduces driver frustration
  - Reduces tractor, trailer and tire damage
  - Saves expensive wrecker and clean up bills

- Easy coupling force—only 30 lbs!
  - Less wear and tear on the kingpin
  - Extends service life of drivetrain components

- StraightShot™ pull handle is the easiest to operate in the industry
  - Opens easily with a simple, straight pull of the handle
  - No complicated opening sequence to remember
  - Reduces worker compensation exposure

- Rugged steel construction for added strength and durability
  - 28% larger surface area for greater stability

- Performance options
  - In-cab air release: The fifth wheel will not open unless the parking brake is set
  - Clean Connect™: Improves steering, increases tire life, reduces maintenance and helps protect the environment
  - NEW TechLock sensor fifth wheel: Electronic sensors let the driver know that the kingpin is correctly positioned inside the lock and the fifth wheel is closed
  - NEW SmartLock™ visual lock indicator: Gives the driver improved visual indication that the fifth wheel is properly closed
Identify your fifth wheel

Fontaine International complete assembly part numbers. Example: **SL7ATB675012**

1. Top plate

<table>
<thead>
<tr>
<th>SL Release</th>
<th>7 Top plate model</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL = Side Left</td>
<td>7 = 7000 No-Slack®</td>
</tr>
<tr>
<td>SR = Side Right</td>
<td>C = 7000CC No-Slack® (left release only)</td>
</tr>
<tr>
<td>AA = Air Actuated</td>
<td>H = 5092 No-Slack®</td>
</tr>
<tr>
<td>BL = Blocked Left</td>
<td>X = X5092 No-Slack®</td>
</tr>
</tbody>
</table>

Note: 6000 series top plate discontinued to the aftermarket

2. Mounting bracket

<table>
<thead>
<tr>
<th>ATB</th>
<th>Mounting bracket model</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATB = Air slide bracket</td>
<td></td>
</tr>
<tr>
<td>MTB = Manual slide bracket</td>
<td></td>
</tr>
<tr>
<td>PSA = Plate mount adjustable</td>
<td></td>
</tr>
<tr>
<td>FMA = Frame mount</td>
<td></td>
</tr>
<tr>
<td>BSM = Bracket stationary mount</td>
<td></td>
</tr>
<tr>
<td>AX = Xtra® heavy duty air wedge slide</td>
<td></td>
</tr>
</tbody>
</table>

3. Slide rail

<table>
<thead>
<tr>
<th>12 Slide travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 = 12&quot; slide</td>
</tr>
<tr>
<td>24 = 24&quot; slide</td>
</tr>
<tr>
<td>36 = 36&quot; slide</td>
</tr>
<tr>
<td>48 = 48&quot; slide</td>
</tr>
</tbody>
</table>

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No-Slack® 6000

- 6000 secondary lock
- One piece StraightShot™ pull handle

No-Slack® 7000

- 7000 secondary lock
- One piece StraightShot™ pull handle

No-Slack® 5092

- 5092 secondary lock
- Two piece pull handle

Shape

Note 5092 two piece pull handle

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Shape

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Shape

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800-874-9780 • www.fifthwheel.com
**Identify your fifth wheel**

How do I find my serial number?

**Old style serial number (before 11/27/00).** Serial number located on small rectangular tag on front of top plate. Note: position 3 and 4 of the serial number indicates the year built.

![No-Slack® front view](image)

**New style serial number (after 11/27/00).** Serial number engraved directly into the right side of fifth wheel skirt. Note: position 5 and 6 of the serial number indicates the year built.

![No-Slack® right side view](image)

How do I identify knock out vs wedge stop rod?

**Knock out rod**

Lock the wheel on a 2” kingpin the wedge stop rod should be set ¼” from the tip of the wedge.

![Knock out rod](image)

**Wedge stop rod**

Lock the wheel on a 2” kingpin the wedge stop rod should be set ¼” from the tip of the wedge.

![Wedge stop rod](image)
The Fontaine No-Slack® difference
The world’s only self-adjusting fifth wheel lock

The bottom flange of the kingpin makes contact with the bumper (shown in blue) closing the fifth Wheel.

The jaw and wedge (shown in red) close around the kingpin.

The secondary lock (shown in orange) automatically engages when the pull handle is 1” or less from the skirt of the wheel.
Troubleshooting

Slack
1. Check your pull handle.
   • If it is bent replace it.
2. Check your adjustment.
   • The stop rod should be set at ¼” from the end of the wedge when the fifth wheel is closed on a 2” kingpin.
   • The knock out rod does not require any adjustment. The knock out rod should be lubricated and free to travel in and out.
3. Check the serrations between the jaw and wedge.
   • Close the wheel by using a long pry bar. Separate the jaw and wedge using a flat head screw driver. Run the screw driver between the jaw and wedge to feel serrations. If the serrations are smooth the fifth wheel needs to be rebuilt (see rebuild instructions). If serrations exist grease the fifth wheel as outlined in maintenance section (page 8).
4. Check your trailer kingpin using a Fontaine kingpin gauge MSC-GAUGE (see 6 below).
   • If the kingpin is worn out replace it (see SAEJ2228).

Hard to close
1. Check the bumper.
   • With the fifth wheel in the open position check the upper tip of the bumper. If the bumper is damaged replace it.
2. Check the bumper and secondary lock springs.
3. Close the fifth wheel using your test kingpin. If the fifth wheel closes refer the driver to the proper coupling procedure guide.
4. Check the bottom flange of the kingpin for damage.

Hard to open
(If the fifth wheel releases when coupled to your test kingpin it will release when hooked to a trailer).
1. All pressure must be removed from the lock before it will open.
2. Check the pull handle.
   • If the pull handle is bent replace it.
3. Check for proper lubrication (see page 8).
4. Check adjustment on wheels with wedge stop rod.
   • The stop rod should be set at ¼” from the end of the wedge when the fifth wheel is closed on a 2” kingpin.
   • The knock out rod does not require any adjustment. The knock out rod should be lubricated and free to travel in and out.
5. Check the serrations between the jaw and wedge.
   • Close the wheel by using a long pry bar. Separate the jaw and wedge using a flat head screw driver. Run the screw driver between the jaw and wedge to feel serrations. If the serrations are smooth the fifth wheel needs to be rebuilt (see rebuild instructions). If serrations exist grease the serrations and fifth wheel as outlined in maintenance section (page 8).
6. Check the trailers kingpin using Fontaine kingpin gauge MSC-GAUGE.
   • If the kingpin is worn out replace it (see SAEJ2228).
1. Inspect the top plate and degrease if necessary. Lubricate the top surface of the fifth wheel with thin layer of grease. Leave area around the jaw and wedge free of grease.

2. Grease the mount brackets (4 zerks). Lift the top plate up with a pry bar to ensure grease gets to the top of the brackets.

Hint: If the zerks will not take grease, remove top plate and clear the grease channels.

3. Trip the locking mechanism with a pry bar by pushing the bumper off its seat. Keep your hands and arms out of the fifth wheel throat.

4. Separate the jaw and wedge with a screwdriver and press a moly based lubricant between the serrated surfaces (moly-based lubricant such as Mobil grease moly 50 or equivalent). Also press the lubricant in the kingpin contact area on both the stationary jaw and the moveable jaw. Work the action of the pull handle back and forth to spread the lube over all the surfaces.

PM service procedure every 90 days or 30,000 miles.
Thoroughly clean debris from the throat of the fifth wheel (This is best achieved by pressure washing).
Close the fifth wheel and use diesel fuel to thin grease.
Lubricate the fifth wheel surface.
Lubricate the stationary jaw and movable jaw.
Separate the jaw and wedge and lubricate the serrations.
Lubricate fifth wheel pivot points.

Lubricate saddle bearing area.
For lubrication use a moly-based lubricant such as Mobil grease moly 50 or equivalent.
Check fasteners.
Stationary mount repositioning – Use new fasteners.
When to seek approval, standard positioning (8” ahc).
Check slider locks and cylinder.

• Place nozzle of grease gun into all zerks (both sides).
• Pry up top plate for best results.
• Kingpin contact area
What about bracket liner replacement on the 7000?

Inspection criteria:
1. Initial inspection of bracket liners should be made at 180,000 miles on standard application and at 120,000 miles with heavy-duty application and every 30,000 miles there after.
2. Bracket liners should be replaced when liner thickness measures 0.125” or less. Measurement should be made at the thinnest point of the bracket liner. This is typically at the top portion of the liner.

Part Number
LNR-BKT-107

Installation Instructions
Removal of a bracket liner:
1. Remove fifth wheel from the mounting bracket. Fifth wheel removal includes:
   a. Removing cotter pins from the retainer pins
   b. Removing the retainer pins
   c. Removing the bracket pins from the fifth wheel
   d. Remove fifth wheel from mounting bracket
2. Using a flat head screwdriver, pry – in an upward force – on the end of the bracket liner. Bracket liner should release from the mounting bracket.

Installation of a new bracket liner:
1. Place the new bracket liner directly over the mounting bracket.
2. Using a rubber mallet, strike the top of the bracket liner. The new bracket liner should lock into place.
3. Once both new liners are installed, reinstall the fifth wheel onto the mounting bracket.
4. Insert the bracket pins back into the fifth wheel (note: placing some grease on the end of each bracket pin is recommended). Reinstall the retainer pin and cotter pins.
5. Tilt the fifth wheel to the front and back of the mounting bracket to ensure that the bracket liners are properly installed.

What about cold weather?

When the temperature drops below freezing, Fontaine recommends a thorough cleaning of the latching mechanism using a suitable cleaner or degreaser. Lubricate the fifth wheel prior to opening and closing. Refer to figures below. Open and close the fifth wheel several times to distribute the grease. Fontaine suggests the use of a moly-based lubricant such as Mobil grease moly 50 or equivalent. Areas or regions that experience extreme and/or prolonged freezing temperatures should consider using a less viscous substance such as: 90-weight oil, diesel fuel, kerosene, motor oil, etc. Fontaine recommends contacting your specific lubricant manufacturer for guidelines on mixing compatibility of any lubricant.

No-Slack® (6000/7000/7000CC)
Clean, oil and grease all moving parts (see arrows).
Rebuild

Note: Rebuild only after checking the serrations for wear.

Inspect fifth wheel and cover plate for damage.
1. Check stationary jaw for damage (see illustration at right).
2. Check cover plate for damage (see illustration below).
3. Check the throat of the wheel for excessive wear (see illustration below).
4. If any damage is found the wheel should be returned to the PDC.

Items needed for rebuild (follow rebuild instructions included in the KIT-RPR-6000L)
- ¾” wrench
- ¾” socket wrench (no impact)
- 1 1/16” wrench
- Pliers
- Flat head screw driver
- Long pry bar
- Correct operation handle
- Correct pull handle
- Test kingpin MSC-712
- Kingpin gauge MSC-GAUGE
- Moly-based lubricant such as Mobil grease moly 50 or equivalent
- Sprayer of diesel fuel

Rebuild the fifth wheel using only genuine Fontaine parts
Wear parts (genuine Fontaine parts)
- KIT-RPR-6000L (Rebuild kit 6000 and 7000)
- KIT-PUL-6000L (Pull handle 6000 and 7000)
- KIT-ROD-1108 (Wedge stop rod 5092, 6000 and 7000)
- MSC-GAUGE (Kingpin gauge)
- KLTP7000 (Replacement top plate)
- KIT-PIN-LLB (Replacement bracket pins with liners)
- LOC-669 (Slider lock wedge)
- KIT-ROD-6000 (Knock out rod)
- CYL-COMP
No-Slack® disassembly

For 6000 & 7000 series fifth wheels (procedures are the same for both series).

1. Remove secondary lock spring and bumper spring. Remove pull handle cotter pin and washer then slide out pull handle.

2. Unbolt and remove secondary lock from operating handle. Discard lock nut and bushing.

3. Unbolt and remove bumper from operating handle. Discard lock nut and bushing.

4. Unbolt operating handle from pivot mount and remove. Discard lock nut.

Caution: Always wear safety glasses and do not stand directly over parts while disassembling or assembling wheel.
The purpose of this notice is to alert Fontaine customers of the potential hazards from using non-genuine components, specifically the movable locking jaw and wedge. Recent reports have revealed the sale, use and failure of these components. Failures are occurring as a result of the locking wedge stud falling out (see photo in red) at an early cycle time which affects the proper opening and closing of the mechanism, and could create a dangerous condition. The non-genuine components are easy to identify by the physical characteristics listed below. The use of any non-genuine components not only creates a potential dangerous condition, it also voids the manufacture’s warranty. The seller and end user assume any/all responsibility for warranty, property and bodily damage as a result of using non-genuine parts.

### Non-genuine parts
- The non-genuine parts come in a white box.
- The non-genuine parts have jaw and wedge studs that are pressed/glued into the forging. A picture of the failed part is shown above.

### Genuine Fontaine No-Slack® parts
- Genuine Fontaine parts come in a small brown box with Fontaine part number KIT-RPR-6000L clearly printed on a white label (photo of box above).
- Genuine Fontaine parts have the model number forged into the jaw and wedge forging.
- Only Genuine Fontaine parts have “Genuine Fontaine Parts” printed on the box.
No-Slack® assembly

Before rebuilding the assembly, check to make sure that there are no cracks in the cross members or other components. Also check bracket pin holes to ensure they are not worn oversize (pins should fit snugly). Under no circumstances should a fifth wheel be repaired or used if any component (cross member, saddle bearing, etc.) is cracked.

1. Always assemble parts around a 2” kingpin or a 2” diameter shaft. Insert jaw first and then the wedge below it. Grease the jaw and wedge on top and bottom. See note below for more information.

2. Insert timer and timer spring.

3. Insert operating handle and bolt to pivot mount. Use existing bolt, washer, hairpin cotter and bushing (inspect for wear before using and replace if necessary). Use the new lock nut that is supplied in the repair kit.

4. Install bumper and bolt to operating handle. Use existing bolt and washers (inspect for wear before using and replace if necessary). Use new lock nut and bushing that is supplied in the repair kit. Note orientation of bolt. After installing the bumper check to make sure that it can pivot freely.
No-Slack® assembly

5. Insert secondary lock and bolt to operating handle. Use existing bolt and washers (inspect for wear before using and replace if necessary). Use new lock nut and bushing that is supplied in the repair kit. Note orientation of bolt.

6. Install pull handle. Use existing washer and cotter pin (inspect for wear before using and replace if necessary). Attach new secondary lock and bumper spring that is supplied in the repair kit. Now open and close the wheel to ensure that it works properly. Fifth wheel must be properly lubricated before opening and closing the wheel.

Conversion of Manual to Air Actuated Release

Your 6000 or 7000 Series fifth wheel can easily be converted to an air actuated release model. Order Part No. “KIT-AA-6000” and install per Technical Bulletin TB-004 included.

*Specify left side (driver’s side) or right side (curb side) release by adding an “L” or “R” after Part #.

Wedge Stop Rod Adjustment

Close the fifth wheel several times with a standard 2” kingpin tool. With the lock closed, adjust the wedge stop rod so that the end is 1/4” from the wedge.
## Warranty Form

### Warranty request form

Send all correspondence to:
Attention Warranty Department
5000 Grantswood Rd, Suite 200
Irondale, AL. 35210
Telephone: 205-421-4300
Fax: 205-421-4458

### Warranty form

| Manufacturer’s claim number: | 
|---|---|
| Customer: | 
| Fax: 205-421-4458 | 
| Vin number: | In service date: |
| Repair order date: | Vehicle make/model: |
| Mileage/odometer: | Fifth wheel serial no. |
| Application: | Terminal site: |
| Work performed: | Repair site: |
| Description of claim: | 
| Failed part number: | Part number’s replaced: |
| Component’s replaced: | 
| Total amount requested: | Parts amount requested: |
| Labor amount requested: | Miscellaneous amount requested: |
| Labor rate: | Explain: |
| Time to perform repair: | 

### How do I find my serial number?

#### Old style serial number (before 11/27/00)

Serial number located on small rectangular tag on front of top plate. Note: position 3 and 4 of the serial number indicates the year built.

#### New style serial number (after 11/27/00)

Serial number engraved directly into the right side of fifth wheel skirt. Note: position 5 and 6 of the serial number indicates the year built.

#### 3000 series serial number

Serial number engraved directly into the left side of fifth wheel skirt. Note: position 5 and 6 of the serial number indicates the year built.

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Sample warranty form: All pertinent information must be completed. See warranty information on page 16.
No-Slack® Limited Warranty

Basic Limited Warranty

Fontaine International, Inc. (Fontaine) warrants each No-Slack® (5092, 6000, 7000 and 7000 Clean Connect series) fifth wheel sold in North American on or after January 1, 2004 to be free from defects in material and workmanship for five years from date of sale, but does not cover failures due to:

1. Use in loads that are beyond federal, state and provincial highway limits or in special overweight load permits.
2. Improper installation of fifth wheel.
4. Accident.
5. Improper application.
6. Misuse, alteration or negligence.
7. Failure to properly maintain the fifth wheel.
8. Inadequate repairs or alterations that, in Fontaine’s judgment, adversely affect the fifth wheel’s performance or reliability.

Fontaine cannot guarantee the service life of any fifth wheel since service life can vary with application, usage, maintenance, environment, and other factors beyond Fontaine’s control.

Limited Performance Warranty

Fontaine warrants the performance of each No-Slack® (5092, 6000, 7000 and 7000 Clean Connect series) fifth wheel sold in North America on or after January 1, 2004 that is used in a “standard duty application” for five years from the date of sale. A “standard duty application” requires that (i) the vehicle is used 100% on highways with more than 30 miles between each stop, (ii) the vehicle does not exceed a gross combined vehicle weight of 95,000 lbs. (43,000 kilograms), (iii) the total number of axles that is not exceed two for two and (iv) the road type is maintained concrete or asphalt.

Fontaine warrants that each fifth wheel covered hereunder shall operate as described in the Fontaine Instruction Handbook, and the locking mechanism (jaw & wedge) will wear properly on the trailer kingpin when the fifth wheel is adjusted in accordance with the manufactures specifications.

Fontaine fifth wheels are designed and manufactured for use with SAE 2” trailer kingpins that conform to SAE specification (SAE L700, February 1993) and are subject to the wear limits of SAE specification (SAE L2228, June 1993).

Low Lube Specific Warranty

Fifth wheel lube free components are warranted for two years unlimited mileage per “standard duty application” requirements as listed.

Replacement of Parts and Repairs

Authorization from Fontaine must be obtained before replacing or returning any part under this Limited Warranty.

If the fifth wheel does not perform as warranted in this Limited Warranty, or if there is any defect in the material or workmanship covered by this Limited Warranty, Fontaine will, at its option, provide buyer with parts or reimburse the buyer for parts at its reasonable acquisition cost, up to the amount of the original suggested retail price. Further, Fontaine will cover labor cost in repairing the fifth wheel as long as the labor rate is reasonable and the repair time does not exceed Fontaine’s Standard Rate Time chart. Fontaine may require the unit or part to be returned to Fontaine’s factory or a Fontaine authorized representative for evaluation. All freight to and from Fontaine or a Fontaine authorized representative must be prepaid.

This is Fontaine’s only warranty. Fontaine makes no other warranty of any kind, expressed or implied. All implied warranties of merchantability and/or fitness for a particular purpose are hereby disclaimed by Fontaine and excluded. This Limited Warranty may not be changed except in writing by an authorized officer of Fontaine. Any action for any alleged breach of this Limited Warranty must be commenced within one year after such alleged breach occurred or shall be forever barred.

The remedies stated above shall be exclusive for any and all claims by the original user, or anybody claiming through the original user, against Fontaine, whether based on contract, negligence, tort, or any other theory. In no event shall Fontaine be liable for any incidental or consequential damages, losses, or expenses.

This limited warranty gives the buyer specific legal rights, and buyer may also have other rights, which may vary depending on the state, province or country where the truck is registered.