Pin and Bushing Replacement Instructions

Pin and Bushing Kit (ARMORPBK)

Tools Required
- Crowbar
- Pliers
- 9/16” socket
- Kingpin tool

Personal Protective Equipment
- Safety glasses
- Work gloves
- Steel toe boots

Warning!
- Keep hands away from throat of operating fifth wheel
- Wear Personal Protective Equipment (PPE)
- Make sure the wheel is disarmed before maintenance
- Follow all instructions
- Read operating manual before use
- Use proper procedures
- Use proper tools

For instructional video scan or go to fifthwheel.com/maintenance/

Bracket Pins
Bushings

Fifth Wheel Replacement Video available at: fifthwheel.com/armor
Choose “Training” then “Pin and Bushing Replacement”

Pin and Bushing Kit
Part # ARMORPBK
Standard Repair Time: 30 Minutes

See video at fifthwheel.com/maintenance/
Choose “Pin and Bushing Replacement”

All kits include hardware
Disassembly

Hint: If you need help with parts identification see pages 5-7.

1. Trip the wheel closed using a crowbar. **NEVER use hands to trip an activated fifth wheel.**

2. Raise the yard truck boom for easy access, then remove the air hose from the air cylinder quick release valve.

3. Remove two spring tension by removing the cotter pin with pliers. Then remove the two spring tensioner nuts. **Hint:** You can place a screwdriver in the main spring loop to prevent spring from rotating when unbolting nuts (see video).

4. Bracket pins are secured by cotter pins located underneath the fifth wheel on both sides.

Hint: A fifth wheel is closed when the locking jaw is completely across the throat of the fifth wheel.

See video at fifthwheel.com/maintenance/
Choose “Pin and Bushing Replacement”
Disassembly

5

Pull out bracket pins from outside to remove.

6

Carefully lift the top plate using a crane or forklift; then push out the old busings on both sides.

Remove cotter pins on both sides

Tap with hammer to loosen.

Cotter Pin

All kits include hardware

See video at fifthwheel.com/maintenance/
Choose “Pin and Bushing Replacement”
Assembly

1. Grease the new busings and slide them into place on both sides of the fifth wheel.

2. Carefully lower the top plate back onto the brackets; then insert the new pins and set with a hammer.

3. Secure the bracket pins with cotter pins on both sides of the fifth wheel.

4. Connect the air hose to the air cylinder quick release valve.

5. Tilt the fifth wheel down and lower the yard truck boom. Test the wheel using the Fontaine kingpin tool (ARMORKPK) by frequently opening and closing the fifth wheel (see video).
Part Identification

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Included in kit</th>
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<tbody>
<tr>
<td>1</td>
<td>Wear plate</td>
<td>2</td>
<td>ARMORWPK</td>
</tr>
<tr>
<td>2</td>
<td>Knockout rod</td>
<td>1</td>
<td>ARMORKRK</td>
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<tr>
<td>3</td>
<td>Knockout rod clip</td>
<td>1</td>
<td>ARMORKRK</td>
</tr>
<tr>
<td>4</td>
<td>Knockout rod spring</td>
<td>1</td>
<td>ARMORKRK</td>
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<tr>
<td>5</td>
<td>Knockout rod nut</td>
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<td>Locking jaw</td>
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<td>Torsion spring</td>
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<td>9</td>
<td>Trigger</td>
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<td>15</td>
<td>3-way air valve</td>
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<td>Cover plate</td>
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<td>Bushings</td>
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</tr>
</tbody>
</table>

Bushings install in mount
Part Identification – Bottom View

Three way air valve
Air Cylinder
Main Spring
Stationary Jaw
Trigger
Tertiary lock (for use outside private yard)
Manual Override Pull Handle Hole. Also used for tertiary locking.
Secondary Lock

Serial Number
Knockout rod
Knockout rod nut
Cover Plate
Locking Jaw
Torsion Spring
Operating Handle
Wear Plate

Month
Year
Sequence of Month Above

28th fifth wheel manufactured in September, 2014

Example serial number 09140028

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Wear Plates (removable for easy maintenance)

Locking jaw access (under wear plate). Locking jaw slides in for easy maintenance.

Stationary Jaw

Locking Jaw

Knockout rod access (under wear plate). Slot for easy knockout rod maintenance.

Air cylinder bolt access (under wear plate)