

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

**Faster repairs • Greater uptime • Lowest total cost of ownership**

## Trigger Assembly Replacement Instructions

Trigger Assembly Kit (ARMORTAK)



**Trigger Assembly Kit**  
Part # **ARMORTAK**

Standard Repair Time:  
**45 Minutes**

**Trigger Assembly Kit Video available at:**  
[fifthwheel.com/armor](http://fifthwheel.com/armor)

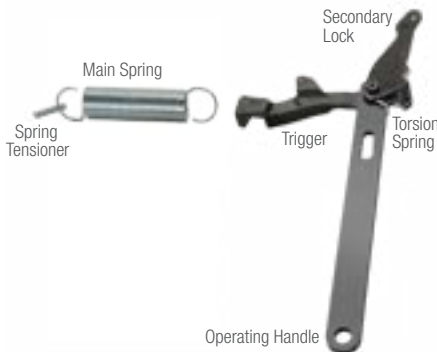


Choose "Training" then "Trigger Assembly Replacement"

For instructional video scan or go to  
[fifthwheel.com/maintenance/](http://fifthwheel.com/maintenance/)

Item	Description	Quantity
①	Torsion spring <i>All parts are</i>	1
②	Trigger <i>pre-assembled</i>	1
③	Secondary lock <i>in trigger</i>	1
④	Operating handle <i>assembly kit.</i>	1
⑤	Main spring	1
⑥	Spring tensioner	1

See video at [fifthwheel.com/maintenance/](http://fifthwheel.com/maintenance/)  
Choose "Trigger Assembly Replacement"



Tools Required
Crowbar
Pliers
3/4" deep well socket with 2" extension
9/16" socket
11/16" socket
1/4" allen wrench
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's locks is in the closed position
- Follow all instructions
- Read operating manual before use
- Use proper procedures
- Use proper tools
- Do not mix parts from other trigger kit assemblies



**FONTAINE®**  
PARTS CONNECTION

[fifthwheel.com](http://fifthwheel.com) • 800.874.9780

**All kits include hardware**

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Disassembly

Hint: If you need help with parts identification see pages 8-10.

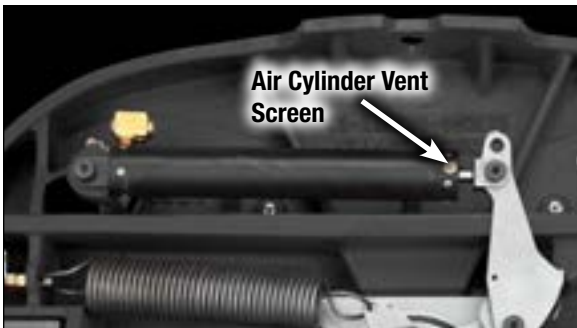
1



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



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



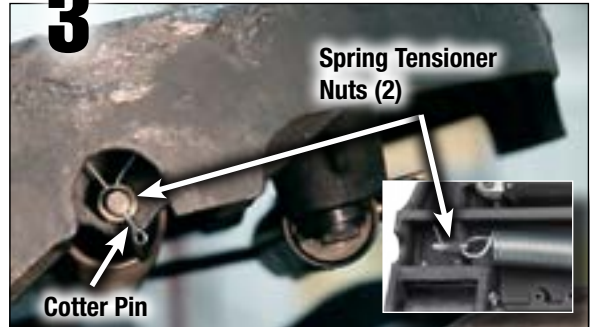
If present, please remove the air cylinder vent screen and discard. **DO NOT** reinstall.

2



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

3

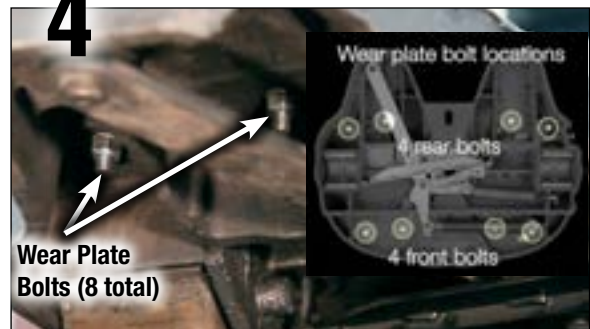


Remove spring tension by removing the cotter pin with pliers. Then remove the two spring tensioner nuts. **Hint:** You can place a screwdriver in the main spring loop to prevent spring from rotating when unbolting nuts (see video).



This deactivates the fifth wheel and allows the user to perform maintenance.

4



Tilt the top plate down to access the two front bolts from the opposite side of the top plate. Remove the eight wear plate nuts and washers. Note all eight nut locations in photo.

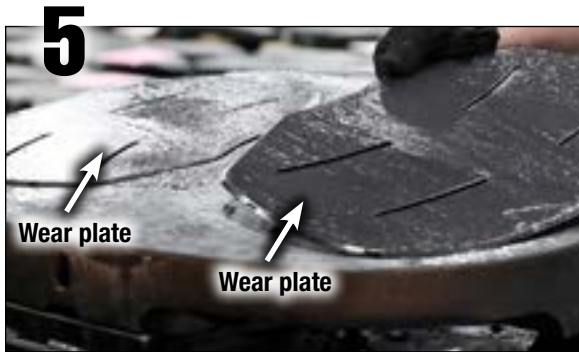
All kits include hardware

# ARMOR

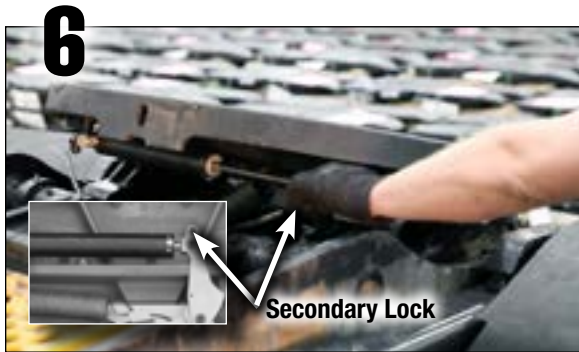
THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

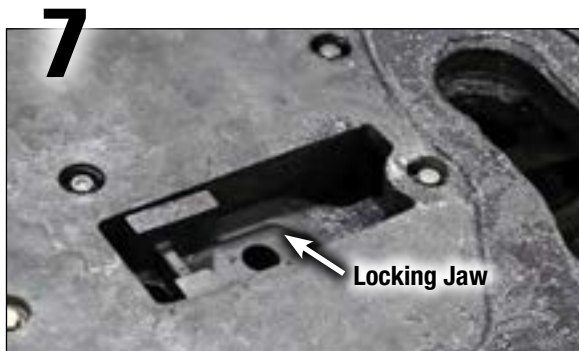
## Disassembly



Remove both wear plates.



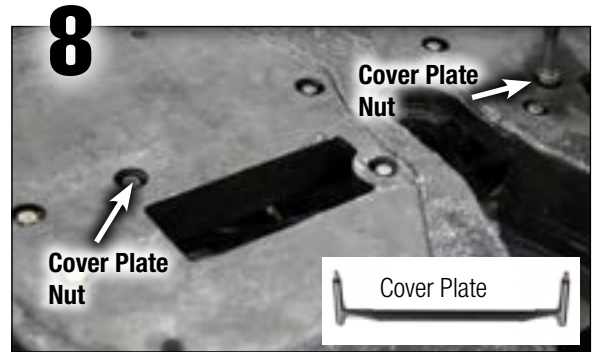
Tilt wheel down in rear to access secondary lock.  
Pull the secondary lock to open the fifth wheel.



Notice locking jaw is now visible because wear plate is off  
and fifth wheel is in open position.



Pull the locking jaw out of the top surface of the wheel.



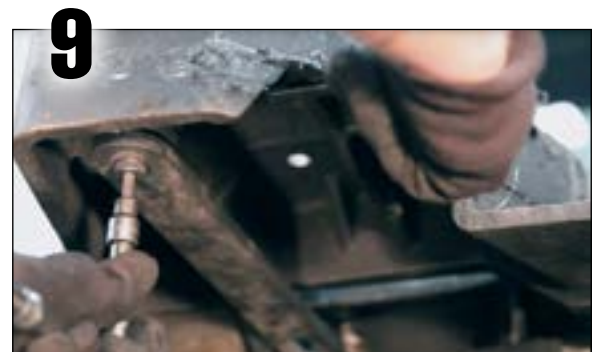
Remove both cover plate nuts.



Push up cover plate to access the two cover plate nuts.



Remove cover plate from below.



Remove operating handle nut and bolt.

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Disassembly

10



Remove air cylinder/secondary lock bolt.

11



Remove trigger assembly.

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Assembly

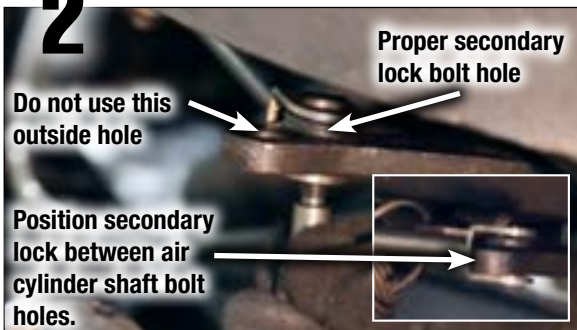
1



Insert new trigger assembly into top plate (make sure one end of the spring is connected to the bumper).



2



Fasten air cylinder to the correct secondary lock bolt hole. Outside hole in secondary lock is for manual release of lock in case of air system failure. Inside hole is for the air cylinder bolt.

3



Install operating handle bolt assembly (Bolt, nut, washer, spacer bushing and hair pin cotter).

4



Insert lock washers onto cover plate screws before inserting into the fifth wheel. Lock washers are installed underneath the fifth wheel.



Make sure cover plate is oriented properly with the angled side pointing towards you.

5



Fasten the two cover plate nuts and bolts.

# ARMOR

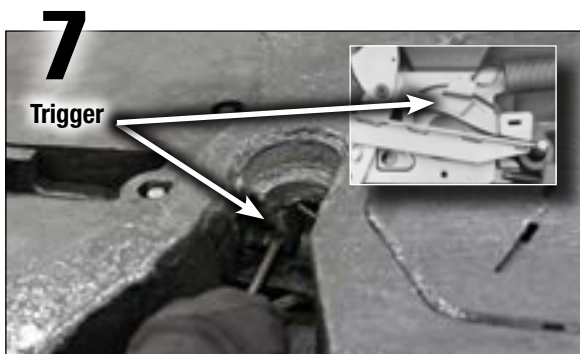
THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Assembly



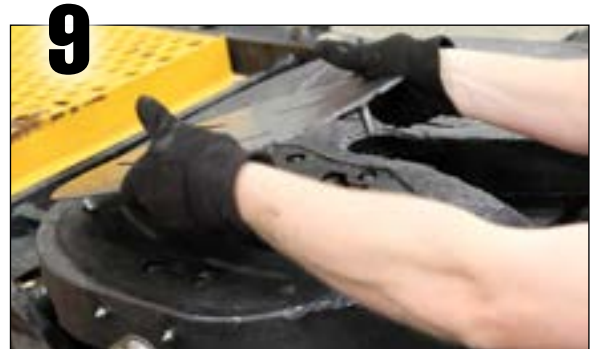
Position the jaw pin into the slot of the operating handle.



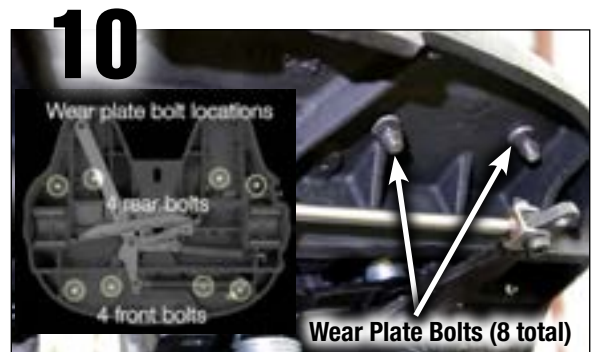
Trip the trigger off the stationary jaw stop. It pushes in.



Close the fifth wheel by pulling the loose end of the main spring.



Install both wear plates.



Install the eight wear plate nuts and washers. You can tilt fifth wheel up and down for easy access. Note all bolt locations in photo.



Insert the spring tensioner through the hole.

Install the TWO spring tensioner nuts. **Hint:** You can place a screwdriver in the main spring loop to prevent spring from rotating when bolting on nuts (see video).

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Assembly

12



Install the cotter pin.

13



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

\* Please note: the air cylinder quick release valve is critical to the operation of the fifth wheel. Do not replace with any other 90° elbows.

14



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). It is suggested that you test the fifth wheel at least three times.

Test Kingpin Tool  
Part # **ARMORKPK**

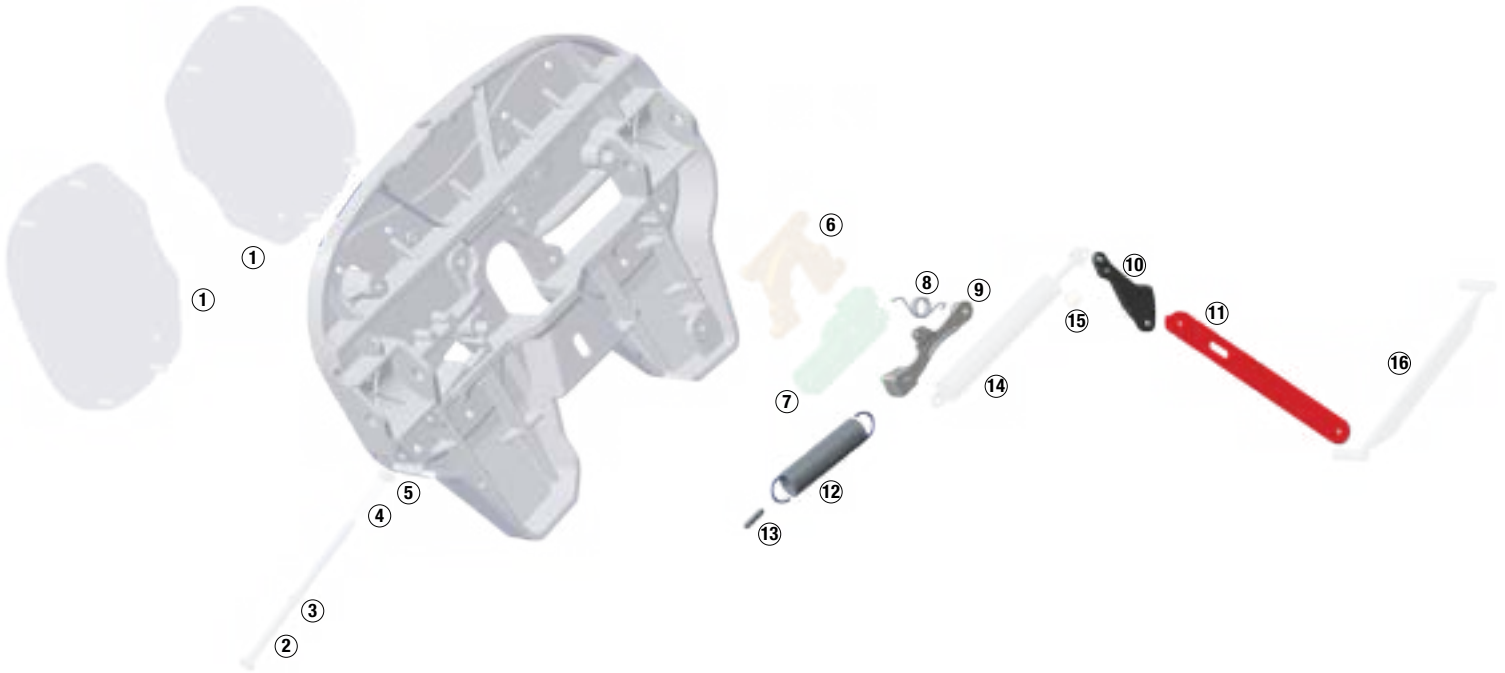


# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Part Identification



Item	Description	Quantity	Included in kit
①	Wear plate	2	ARMORWPK
②	Knockout rod	1	ARMORKRK
③	Knockout rod clip	1	ARMORKRK
④	Knockout rod spring	1	ARMORKRK
⑤	Knockout rod nut	1	ARMORKRK
⑥	Stationary jaw	1	ARMORSJK, ARMORLAK
⑦	Locking jaw	1	ARMORJRK, ARMORLAK
⑧	<b>Torsion spring</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK, ARMORSRK</b>
⑨	<b>Trigger</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK</b>
⑩	<b>Secondary lock</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK</b>
⑪	<b>Operating handle</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK</b>
⑫	<b>Main spring</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK, ARMORSRK</b>
⑬	<b>Spring tensioner</b>	<b>1</b>	<b>ARMORTAK, ARMORLAK, ARMORSRK</b>
⑭	Air cylinder	1	ARMORACK
⑮	3-way air valve	1	ARMORACK
⑯	Cover plate	1	ARMORLAK, ARMORCPK



**FONTAINE®**

PARTS CONNECTION

fifthwheel.com • 800.874.9780

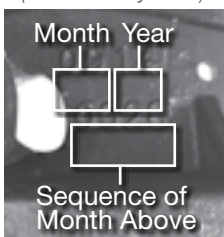
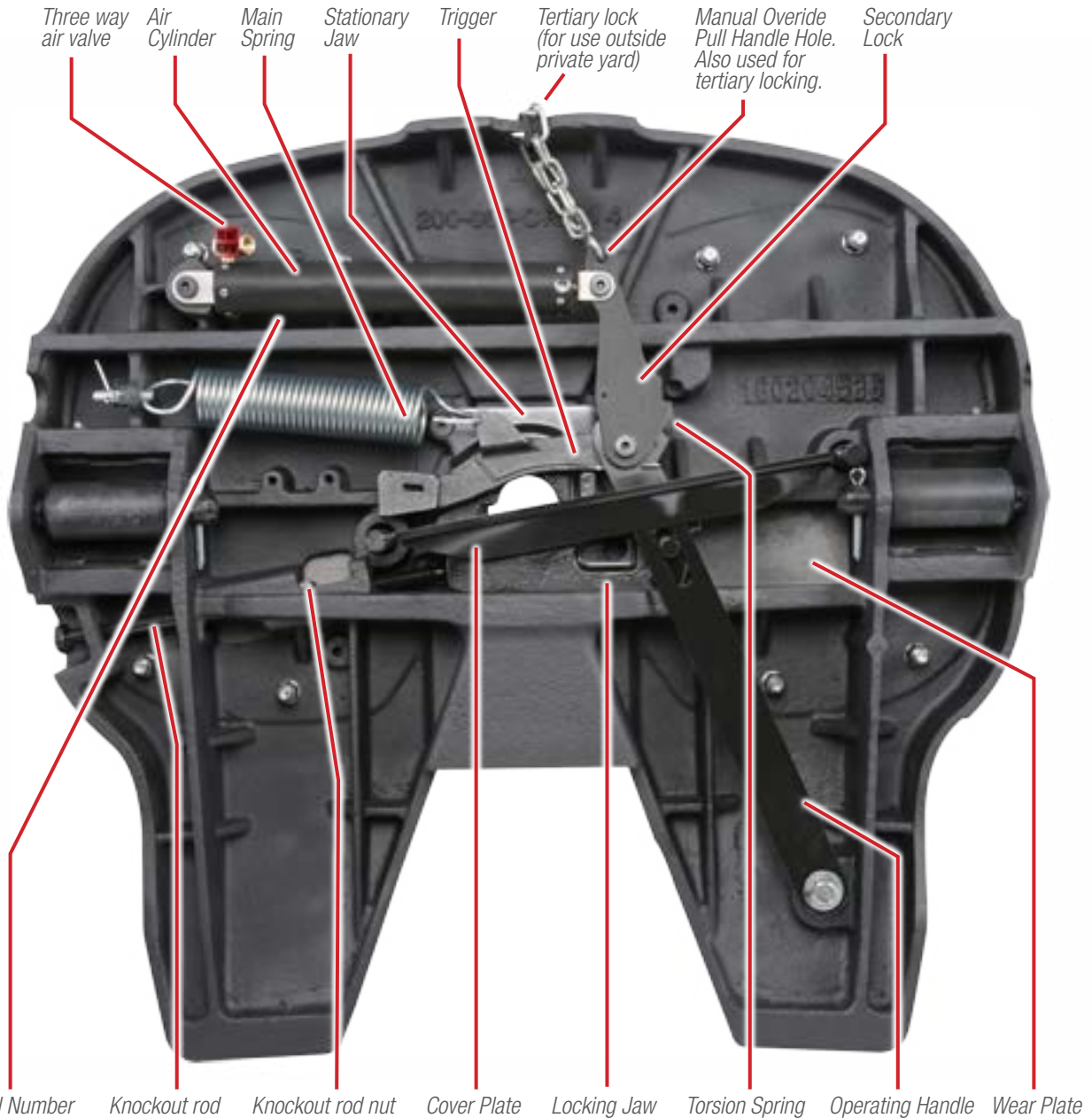


# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

## Part Identification – Bottom View



28th fifth wheel  
manufactured in  
September, 2014

Example serial number  
09140028



**FONTAINE**<sup>®</sup>

PARTS CONNECTION

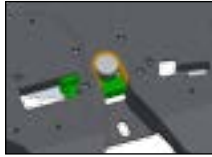
fifthwheel.com • 800.874.9780

# ARMOR

THE ONLY FIFTH WHEEL DESIGNED SPECIFICALLY FOR YARD TRUCKS

Faster repairs • Greater uptime • Lowest total cost of ownership

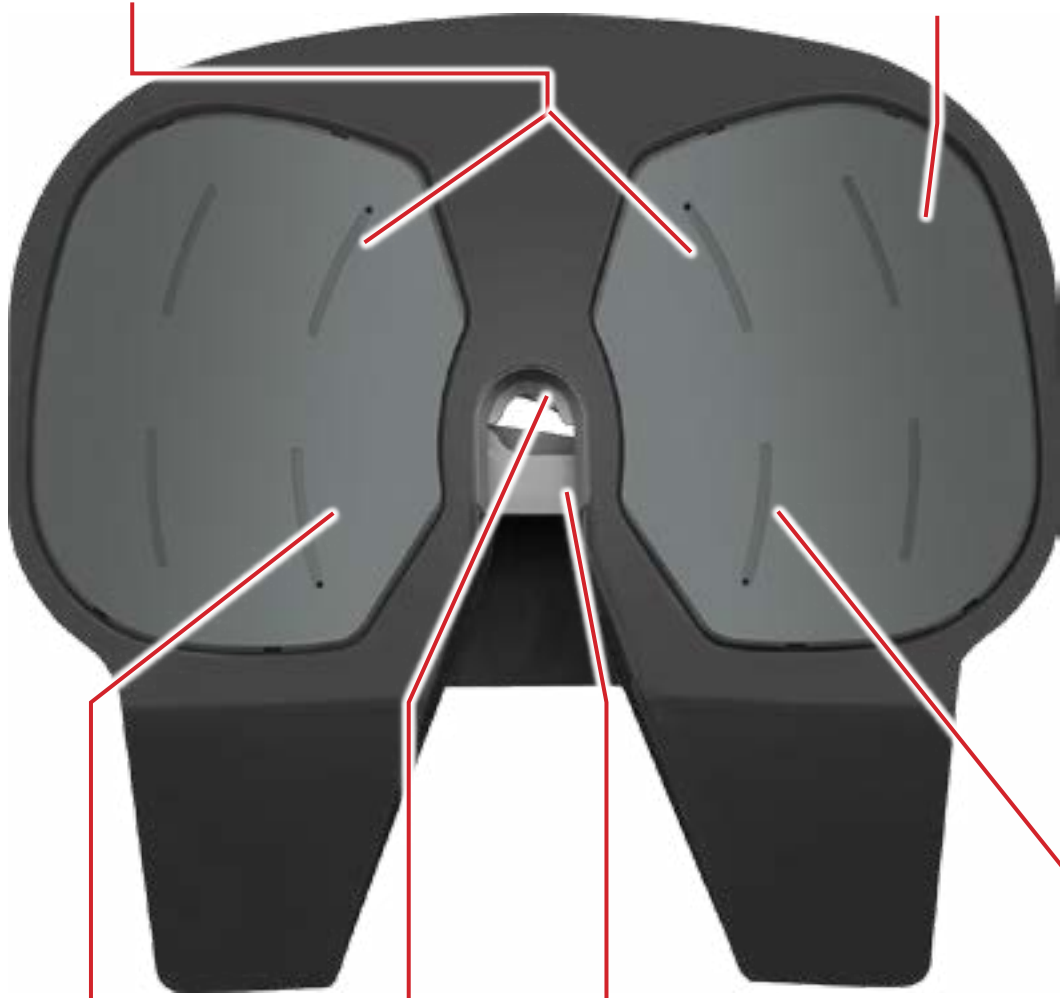
## Part Identification – Top View



Wear Plates (removable for easy maintenance)



Air cylinder bolt access (under wear plate)



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.



**FONTAINE**<sup>®</sup>

PARTS CONNECTION

fifthwheel.com • 800.874.9780