

Only

FONTAINE®

Gives You the TechLock® System Advantage

Rebuild



**ASSEMBLY, DISASSEMBLY
& TROUBLESHOOTING
INSTRUCTIONS
NO-SLACK®
5092 SERIES**

**FOR YOUR SAFETY USE
ONLY GENUINE FONTAINE
SERVICE PARTS. USING
PARTS THAT DO NOT MEET
FONTAINE SPECIFICATIONS
WILL VOID WARRANTY.**


FONTAINE
FIFTH WHEEL®

NO-SLACK® 5092 DISASSEMBLY

Degrease fifth wheel before installing new parts.

For H5092 and X5092 Series Fifth Wheels

Refer to exploded view of assembly on page 7 to identify item numbers and parts.

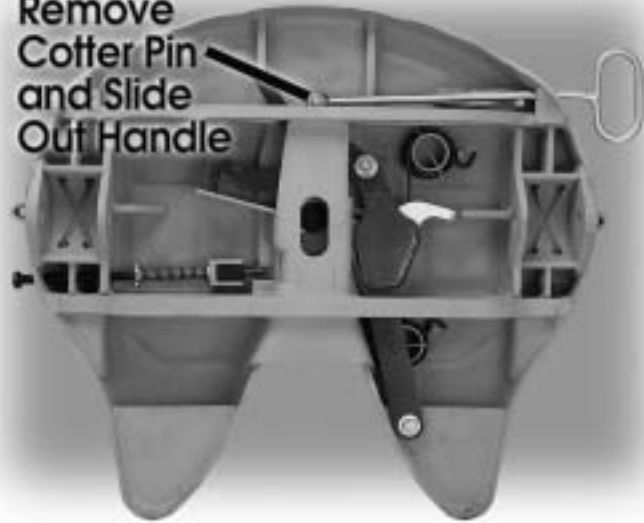
1 Set the fifth wheel in a locked position (Handle pushed in). Unhook the bumper spring from the bumper tang and the tab on the side of the fifth wheel substructure. Remove the bumper spring.

Remove Bumper Spring



2 Remove the cotter pin and washer that holds the pull handle to the operating handle. Slide the pull handle out through the side of the fifth wheel.

Remove Cotter Pin and Slide Out Handle



3 Remove the two bolts on the operating handle. Each bolt has a nut, washer and bushing. Discard the bushings and lock nuts.

Remove Bolts



4 Slide the operating handle over to the side of the fifth wheel. Slide the bottom part first. This will allow the underside of the handle to clear the jaw and wedge studs and timer.

Slide Operating Handle to Right to Reveal Timer



Caution: Always wear safety glasses and do not stand directly over parts while disassembling or assembling wheel.

NO-SLACK® 5092 DISASSEMBLY

5 Remove the timer by lifting upward. Then slide the operating handle out through the slot in the rear cross member of the fifth wheel.

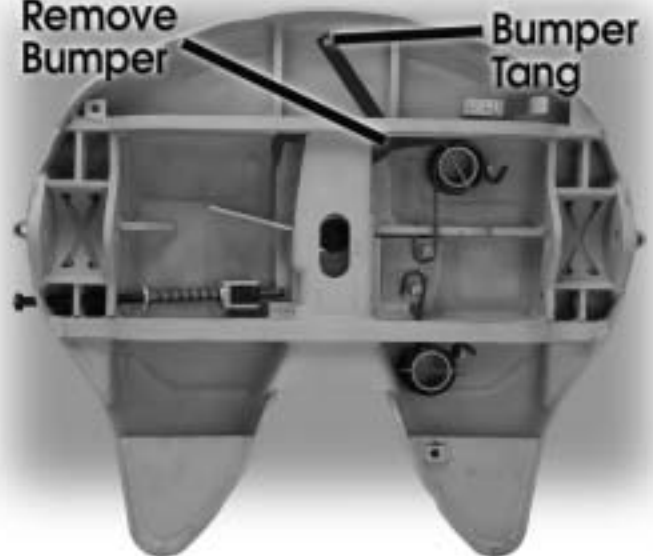
Remove Timer



6 Slide the bumper toward the operating handle slot and to the rear of the fifth wheel until the bumper tang clears the operating handle slot and remove.

Remove Bumper

Bumper Tang



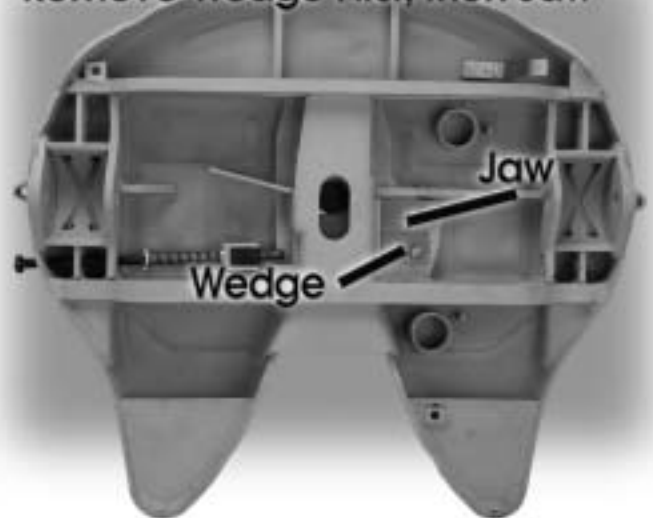
7 CAUTION! Remove and discard the cotter pins from the jaw and wedge spring boss. Pry the small tail of the springs up over the jaw and wedge studs. Remove and discard both springs.

Remove Cotter Pins



8 Remove the wedge first and then the jaw. Discard the jaw and wedge.

Remove Wedge First, then Jaw



Note: Spring tool part no. is MSC-710.

***CAUTION! The wedge spring is under extreme tension. Always wear safety glasses. Do not stand directly over the springs while disassembling or assembling wheel.**

NO-SLACK® 5092 ASSEMBLY

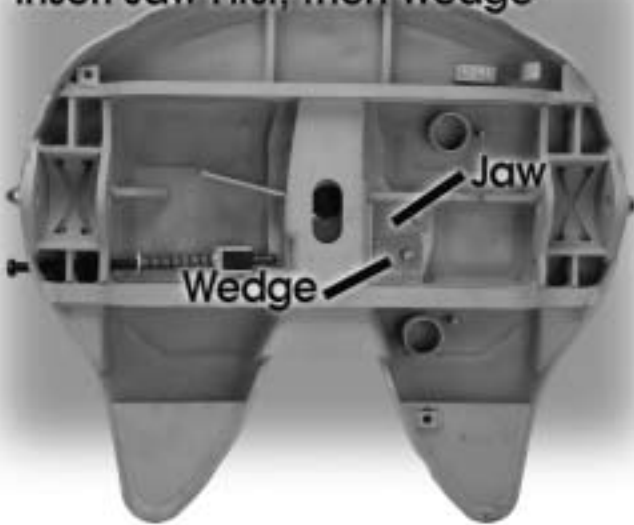
Adequate lubrication should be used.

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).

1 Always assemble parts around a 2" kingpin or a shaft with a 2" diameter. Insert new jaw first and then the new wedge below it. Grease the jaw and wedge on top and bottom. See note at top of page 5 for more information. Also apply grease to the stationary jaw in the throat of the fifth wheel.

2 Insert the new wedge spring through the slot in the rear cross member and lay the coil over the spring boss. Using a spring tool, engage the small hooked tail of the wedge spring and wind it around until it is directly over the small stud at the back of the bracket. Using a hammer, nudge the spring downward allowing it to catch on the stud. Insert the new cotter pin. Repeat these steps to replace the jaw spring. **Note: The jaw spring has minimal tension and can carefully be replaced by hand.**

Insert Jaw First, Then Wedge



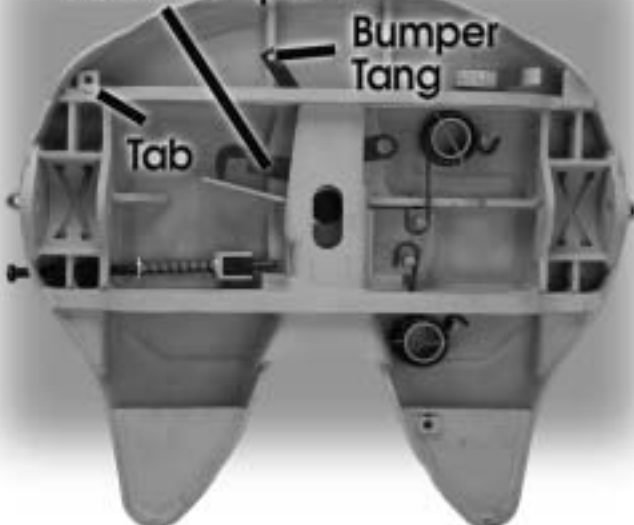
Install Jaw and Wedge Springs



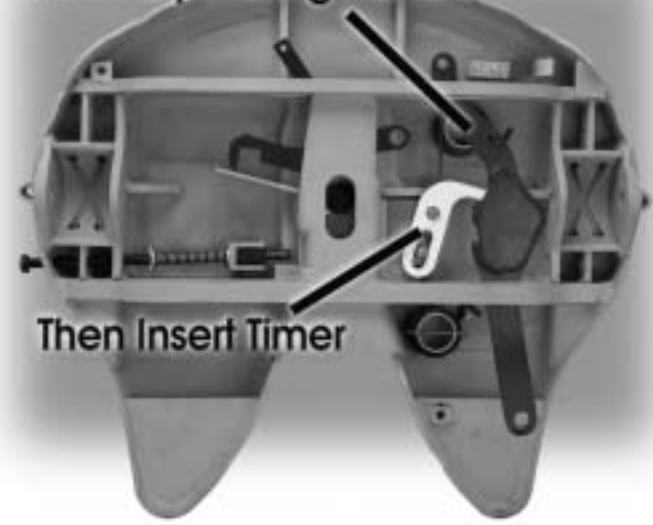
3 Place the bumper back in position, sliding bumper tang through the operating handle guide slot and toward the tab on the side of the fifth wheel substructure.

4 Apply a liberal amount of grease to the grooved middle section of the operating handle. Insert the operating handle and move it over to the side of the wheel. Insert timer over the jaw and wedge studs. The small hole on the timer fits over the jaw stud and the slotted hole fits over the wedge stud. Be certain the small bent arm of the timer is facing downward.

Insert Bumper



Insert Operating Handle



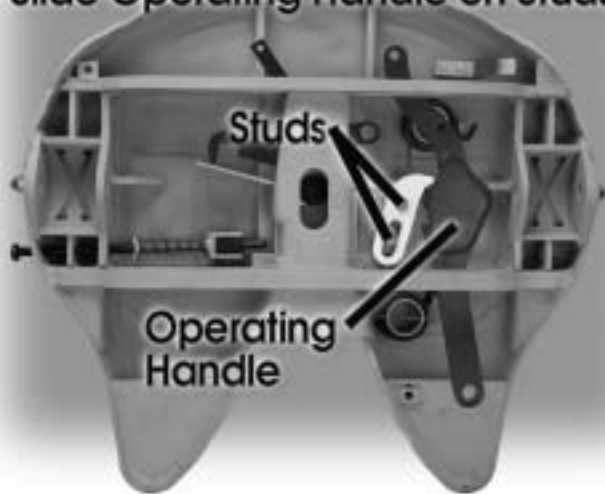
Under no circumstances should a fifth wheel be repaired or used if any component (cross member, saddle bearing, etc.) is cracked.

NO-SLACK® 5092 ASSEMBLY

Note: Fontaine suggests the use of a Moly based lubricant such as Mobil grease Moly 50 or equivalent when applying lubricant to the locking jaw and wedge. Lightly oil other moving parts in the fifth wheel.

- 5** Slide operating handle toward the center of wheel to engage handle with studs on the jaw and wedge. Slide the top part first. This will ensure that the grooves on the operating handle are aligned with the studs.

Slide Operating Handle on Studs



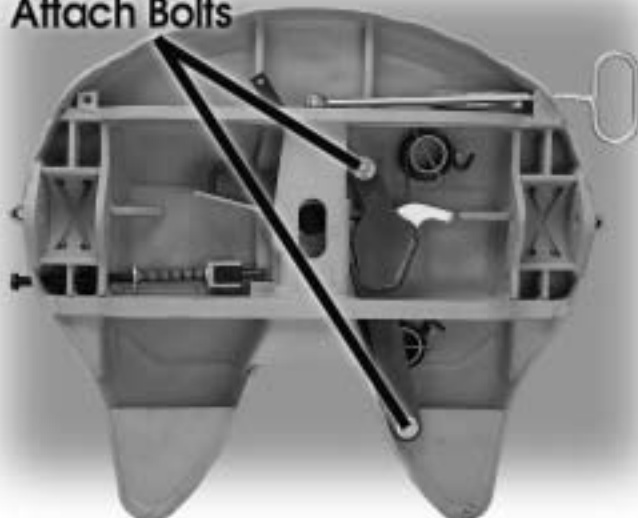
- 6** Insert the pull handle through the fifth wheel skirt. Using the cotter pin and washer, fasten it to the top hole of the operating handle.

Install Pull Handle



- 7** Align the bumper hole with the operating handle hole. Replace the bolts on the operating handle. The bolt which fastens the operating handle to the bumper must be inserted with the threads facing toward you to prevent interference with the jaw spring. The other bolt should be positioned with the threads facing downward. (See drawing on page 7) Each bolt has a washer and a **new** nut and bushing. Apply grease to the bolt parts and where there is metal to metal contact with the operating handle. Do not over tighten bolts. Lubricate all pivot points.

Attach Bolts



- 8** Connect the bumper spring to its clasp. Apply grease to the bracket pockets and to the grease fittings on the side of the fifth wheel until grease flows into upper brackets. Also apply a liberal amount of grease to the top plate.

Attach Bumper Spring



NO-SLACK® 5092 REBUILD TROUBLESHOOTING

Problem	Possible Cause	Remedy
Difficulty Coupling	<ol style="list-style-type: none"> 1. Kingpin too high to trip latch. 2. Damaged trailer plate or kingpin. 	<ol style="list-style-type: none"> 1. Lower landing gear 2. Check trailer plate for flatness. Check kingpin for squareness with trailer plate.
Excessive wear on fifth wheel top plate	<ol style="list-style-type: none"> 1. Damaged trailer plate. 	<ol style="list-style-type: none"> 1. If trailer plate is not flat – replace it.
Difficulty uncoupling	<ol style="list-style-type: none"> 1. Pressure on locking mechanism caused by truck drifting apart from trailer putting excess pressure on lock 2. Oval-shaped kingpin 3. Debris build-up in the grease 	<ol style="list-style-type: none"> 1. Back up tractor and set brakes. Strike the wedge stop rod which protrudes through the side of the fifth wheel. This spring loaded rod will release the pressure on the locking mechanism.
Slack	<ol style="list-style-type: none"> 1. Wedge stop rod not adjusted properly. 2. Undersized kingpin 3. Worn jaw and wedge 	<ol style="list-style-type: none"> 1. Open fifth wheel and insert 2" kingpin or shaft with 2" diameter. Trip the lock and adjust the wedge stop rod so that it is 1/4" from the wedge. 2. Replace kingpin if worn greater than 3 mm (1/8") at 5 m (2") diameter. 3. Jaw and wedge could have excessive wear – Replace.

Note: All fifth wheel installations must be approved by Fontaine Fifth Wheel.

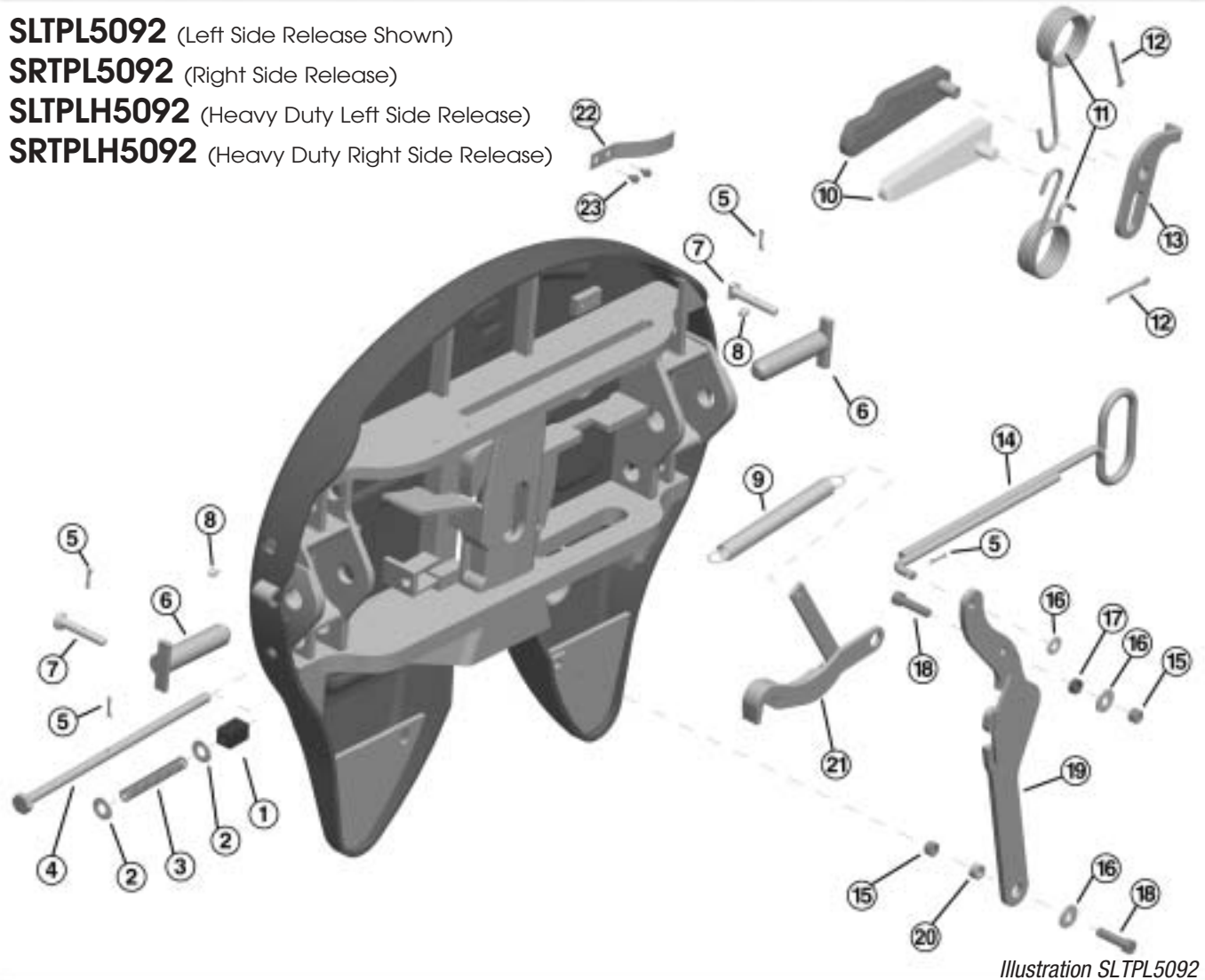
NO-SLACK® 5092 REBUILD DIAGRAM

SLTPL5092 (Left Side Release Shown)

SRTPL5092 (Right Side Release)

SLTPLH5092 (Heavy Duty Left Side Release)

SRTPLH5092 (Heavy Duty Right Side Release)



Item No.	Description	Part Number	Quan.
①	Wedge Stop Rod Nut	NUT-319	1
②	Flat Washer, 5/8", Plain	WSH-304-5	2
③	Wedge Stop Rod Spring	SPR-317	1
④	Wedge Stop Rod	ROD-1108	1
⑤	Cotter Pin, 3/16"x1"	PIN-165	4
⑥	Bracket Pin	PIN -191P	2
⑦	Bracket Retainer Pin	PIN -124P	2
⑧	Grease Fitting	MSC-375	2
⑨	Bumper Spring	SPR-128	1
⑩	Step Jaw and Wedge Set	WED-200-*	1
⑪	Jaw and Wedge Spring Set	SPR-137-138	1
⑫	Cotter Pin, 1/4" x 3"	PIN-95	2
⑬	Timer	TMR-134-*	1

Item No.	Description	Part Number	Quan.
⑭	Pull Handle	PUL-5092	1
⑮	Hex Lock Nut, 1/2"-13, Grade "C"	NUT-303-9	2
⑯	Flat Washer, 1/2" I.D. 1-3/8", O.D., Plain	WSH-304-4	3
⑰	Bushing, 5/16"	BSH-629	1
⑱	Hex Head Bolt, 1/2" - 13 x 2", Grade 5	BLT-302-15	2
⑲	Operating Handle	OPR-5000-S*	1
⑳	Bushing, 7/16"	BSH-115	1
㉑	Bumper	BPR-5092-*	1
㉒	Leaf Spring	SPR-569	1
㉓	Self Tapping Screw, 1/4" - 20 x 3/8"	SCR-425	2

* Specify left side (driver's side) or right side (curb side) release by adding an "L" or "R" after Part # (Example: TMR-134L).

GENUINE FONTAINE® KITS

"Item Number" is shown in Schematic Illustration of Parts on previous page.

Item No.	Description	Quantity
KIT-BPR-5092*		
5092 Series Bumper Kit		
9	Bumper Spring	1
15	Hex Head Bolt, 1/2" - 13	1
16	Flat Washer, 1/2" I.D.	2
17	Bushing, 5/16"	1
18	Hex Lock Nut, 1/2" - 13	2
20	Bushing, 7/16"	1
21	Bumper	1
KIT-PIN-191		
Universal Series Pin and Bushing Kit		
5	Cotter Pin, 3/16" x 1"	2
6	Bracket Pin	2
7	Bracket Retainer Pin	2
<small>Not Pictured</small>	Bracket Bushing (pr.)	1
KIT-PUL-5092		
5092 Series Pull Handle Kit		
5	Cotter Pin, 3/16" x 1"	1
14	Pull Handle	1
16	Flat Washer, 1/2" I.D.	1
KIT-RPR-5092*		
5092 Repair Kit		
9	Bumper Spring	1
10	Step Jaw and Wedge Set	1
11	Jaw and Wedge Spring Set	1
12	Cotter Pin, 1/4" x 3"	2
17	Bushing, 5/16"	1
18	Hex Lock Nut, 1/2" - 13	2
20	Bushing, 7/16"	1

Item No.	Description	Quantity
KIT-ROD-1108		
Wedge Stop Rod Kit		
1	Wedge Stop Rod Nut	1
2	Flat Washer, 5/8"	2
3	Wedge Stop Rod Spring	1
4	Wedge Stop Rod	1
5	Cotter Pin, 3/16" x 1"	1
KIT-TMR-134*		
5000 Series Timer Kit		
13	Timer	1
17	Bushing 5/16"	1
18	Hex Lock Nut, 1/2" - 13	2
20	Bushing 7/16"	1

* Specify left side (driver's side) or right side (curb side) release by adding an "L" or "R" after Part # (Example: KIT-RPR-5092L).



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