



**The World's Leading
Manufacturer Of Trailer Sliders
For Over Four Decades.**

SERIES 10



Slider

Applications & Parts



Advancing the Practical Application of Suspension Technology

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Series 10 Slider

Application

The Hutchens Series 10 van slider is designed for Van Trailer (Dry or Refrigerated) applications, requiring a 48" nominal frame width and 49" axle centers. The Series 10 works with current Hutchens van slider body rails and can be used anywhere the 9801 spring slider is used. This slider may only be used with overslung axles and the following taper leaf springs: 363-00, 324-01, 325-01, 326-01, 354-00, 355-00, 356-00, 365-00 and 365-01. The hangers of the Series 10 produce a one inch lower "mounting height" than the straddle mount hangers of the H9700 series. Also, the frame height of the Series 10 is 9 1/4" (not including body rails) which is one inch taller than the 9801. The combination of the new hanger design and taller frame makes the "total" mounting height the same as the 9801 (when using the same springs and seat heights).

Capacity

The Series 10 gross axle weight rating (G.A.W.R.) is limited to a maximum of 25,000 lbs./axle resulting in an overall maximum capacity of 50,000 lbs., per unit.

Features

- ▶ 9" deep frame made from high strength, 76 KSI minimum yield steel.
- ▶ C-Channel side rails with optimized flange contours reduce weight and resist corrosion.
- ▶ Individual hanger towers provide vertical load support.
- ▶ The insides of the hanger towers are Sharp® soft coated for increased corrosion resistance.
- ▶ Full depth crossmembers provide optimal lateral support.
- ▶ Huck® fasteners at high stress crossmember attachments.
- ▶ Low profile "spring hangers" reduce frame stresses.
- ▶ Strategically placed, large diameter lock pins and heavy duty hold down clips resist braking loads and sliding forces.
- ▶ Structurally designed for maximum durability at impact zones.
- ▶ Maintenance free, Huck® fastened rocker connection.
- ▶ Hutch's locator bar...the industry's best compromise in weight and strength.
- ▶ Backed by Hutchens' ten year warranty.

Options

Body rails up to 392" long, in 4" increments. The Series 10 slider can also be "hot dip galvanized" upon request.

How To Order Your Series 10 Slider Assembly

As discussed above, the Series 10 slider may only be used with overslung axles and the following taper leaf springs: 363-00, 324-01, 325-01, 326-01, 354-00, 355-00, 356-00, 365-00 and 365-01.

1. Determine if the 48" frame with and 49" axle centers of the Series 10 slider will fit within the envelope of your particular application. The deeper frame combined with shorter, "hybrid" hangers produces the same overall mounting height as that of our 9801 slider assembly. **See Figs. 1 and 2.**
2. The Series 10 slider is equipped with low profile, "hybrid" 9700 hangers attached at our factory.
3. Select the range of slide adjustment you need and determine the body rail length required to provide that range. The Series 10 will work with current Hutchens van slider body rails. **See Chart A.**

4. A locator bar assembly is a standard component with every Hutchens slider. **See Chart B.** The locator bar should be used as directed when re-positioning the slider. **See "To Position The Sliding Suspension."**

5. Even with the limited options of the Series 10, each unit must be ordered by a description of the slider.

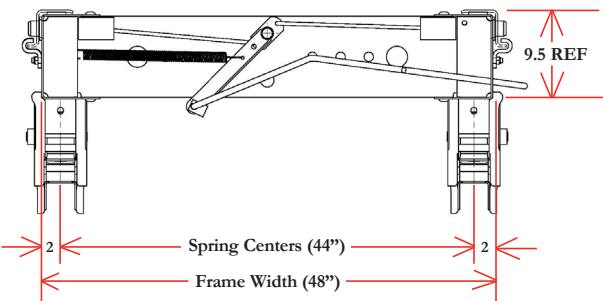
Example:

A Series 10 slider with 48" frame width, 49" axle centers, 192" body rails and a locator bar would be ordered as follows:

Quantity	Model	Frame Width	Body Rail Length	With Locator Bar
1 ea.	Series 10	48"	192"	w/ Locator Bar
1 ea.	Series 10 – 48 – w/192" body rails and locator bar*			

* If you are ordering a complete suspension with the slider, a description of the unit must follow (i.e. 3/4" seats for 5" round axles, less standard 3 leaf springs with 7040-08 U-bolts).

Fig. 1



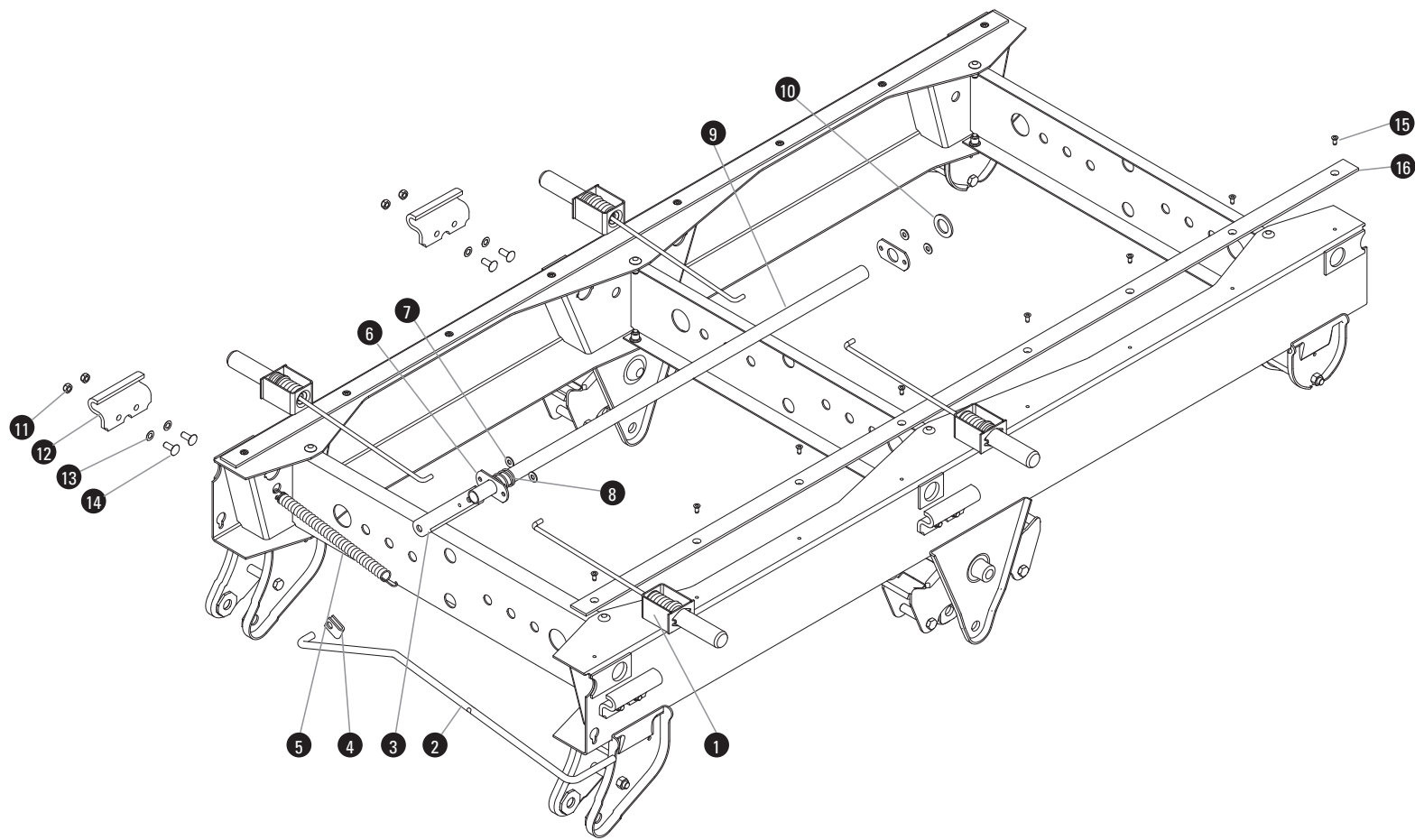
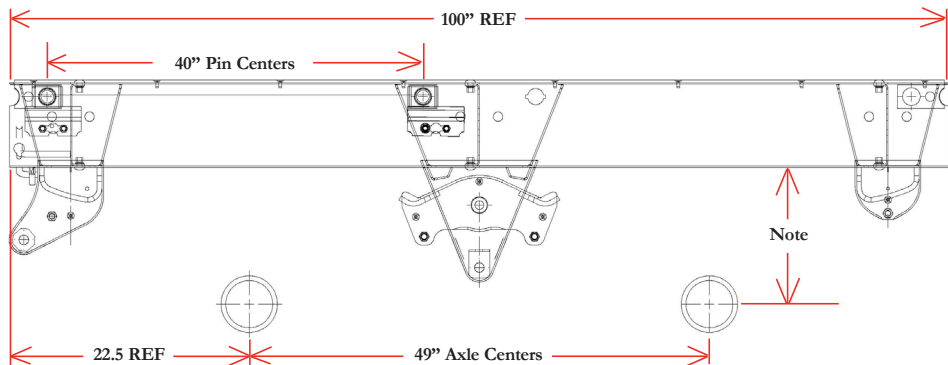


SERIES 10



Fig. 2

Note: Mounting heights for the Series 10 hangers are 1" less than standard H9700 straddle mount hangers.



Bill of Materials

Item	Part No.	Quantity	Description
1	25590-01	4	EZ Pull Sub Assembly
2	19468-01	1	Pull Handle
3	19224-01	1	Crank
4	11409-01	1	Handle Clip
5	8018-02	1	Spring – Helex, 1 PD x 10 1/8" LG
6	8028-00	2	Cam – Puller Kit
7	177-00	4	Flat Washer 3/8"
8	18064-01	1	Compression Spring
9	8010-29	1	Pipe – 1" STD x 50" LG
10	9224-00	1	Flat Washer
11	33-01	8	Hex Locknut – 1/2" – 20 UNF
12	20289-01	4	Hold Down Clip
13	25594-01	8	Push Bolt Retainer – 1/2" Bolt
14	25595-01	8	Carriage Bolt – 1/2" – 20 UNF
15	9627-00	16	Thread Form Screw – 5/16" – 18 x 3/4", CS HD
16	11421-32	2	Slider Pad – 99" LG

Chart A – Body Rail Assemblies

Part No.	Length Ranges*	Material Thickness
12713-XX	100" – 328"	.232"
16816-XX	120" – 392"	.275"

* Lengths outside of these ranges are available upon request.

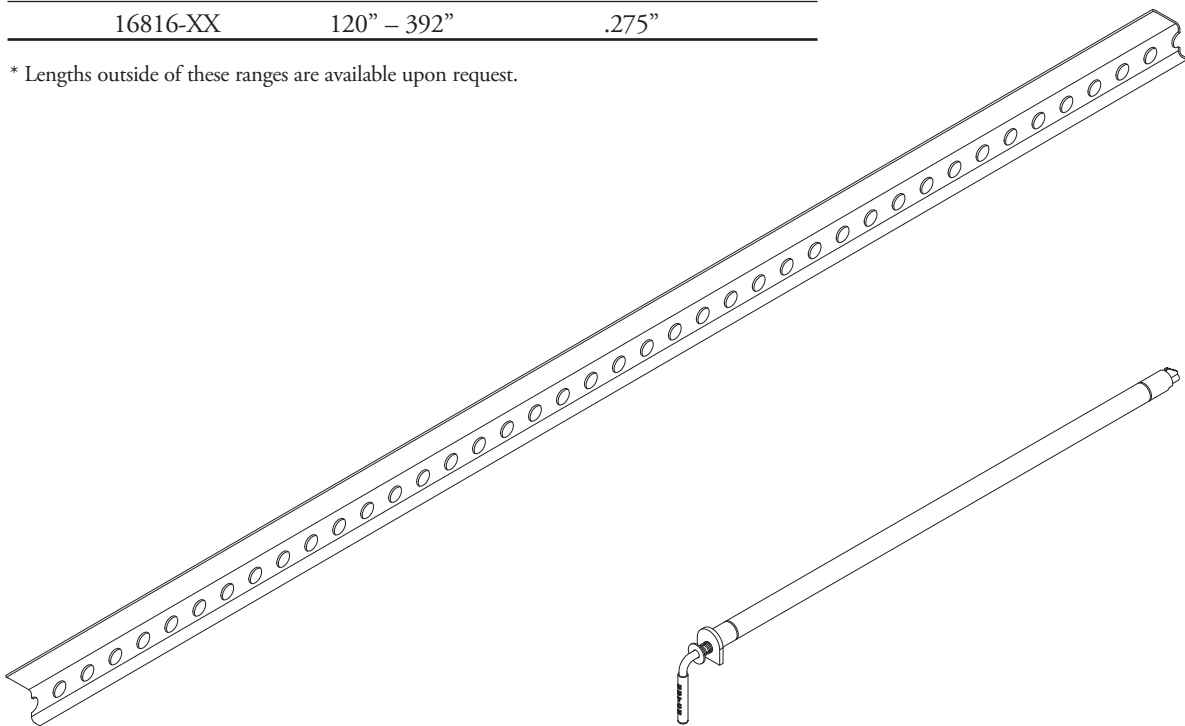


Chart B – Locator Bar Assembly

Part No.	Frame Width
11642-10	48"

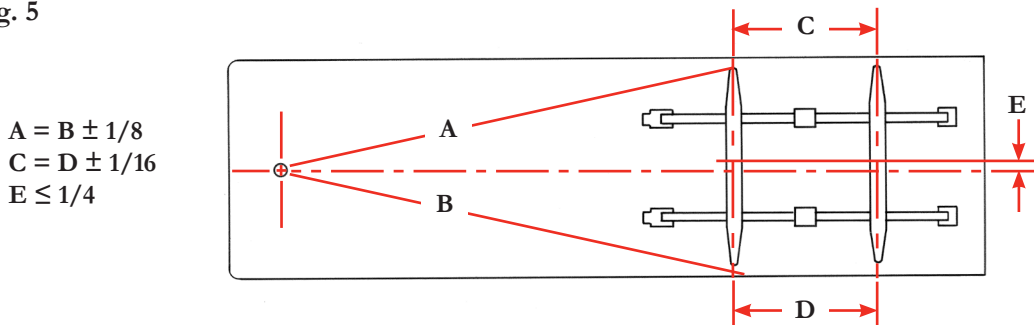
Suspension Alignment

ALIGNMENT CAN ONLY BE ACHIEVED IF THE LOCKPIN HOLES ARE EVENLY LOCATED FROM THE KINGPIN, LEFT AND RIGHT. ALIGNMENT SHOULD ALWAYS BE DONE WHILE THE TRAILER IS EMPTY.

To properly align the suspension attached to your Series 10 slider, the trailer should be pulled in a straight line for a sufficient distance to ensure there are no binds in the suspension. The trailer should then be pulled straight forward with the trailer brakes locked, so the locking pins rest against the rear of the holes in the body rails. This approximates the position of the pins when the trailer is being pulled on a highway, and ensures proper trailer tracking. Alignment can be achieved with an optical device designed especially for this purpose, or manually in the following manner.

- a) Measure the distance from the kingpin to the centerline of the spindles on the front axles. It is recommended that spindle extensions be utilized. As noted in **Fig. 5**, dimensions A and B must be equal within 1/8 of an inch. Alignment is accomplished by loosening the torque arm clamp bolts on both ends of the adjustable torque arm and turning the adjustment screw as required.

Fig. 5





- b) After the front axle is aligned, tighten the 5/8" torque arm clamp bolts to 130 lb-ft (oiled), 170 lb-ft (dry) torque in order to lock the position of this axle. Next, align any succeeding axles with the front axle by following the same procedure.
- ▶ Loosen the torque arm clamp bolts, turn the adjustment screw until dimensions C and D are equal within 1/16" of each other, then tighten the clamp bolts to the proper torque.
 - ▶ Check dimension E, the lateral centerline relationship of the trailer body and axles. If E exceeds 1/4", contact the trailer manufacturer for recommendations.
 - ▶ After alignment has been completed on all axles, all 5/8" torque arm clamp bolts should be rechecked to make certain that they are tightened to the necessary 130 lb-ft (oiled), 170 lb-ft (dry) torque.
 - ▶ Relocate the slider to the forward position and recheck the kingpin alignment. Variance in A and B dimensions would indicate lock pin hole discrepancies.
 - ▶ Refer to TTMA RP No. 71-10 (Trailer Axle Alignment) for more detail.

To Position The Sliding Suspension

1. Set both the tractor and trailer brakes.
2. Remove the locator bar from behind the slider and move to desired location.
3. To release the lock pins, pull the operating handle all the way out and lock in place.
4. Release the tractor brakes and carefully drive forward or backward until the sliding suspension is at the desired location.
5. Release the operating handle and visually check all lock pins for locking. The main body of each lock pin must extend through the holes in the rails.
6. Lock the locator bar in both rails immediately behind the slider.
7. With the trailer brakes applied, gently rock the trailer backward and forward to ensure the sliding suspension is properly locked, and follow the procedures set out above before pulling the trailer. The lock pins must be checked at each stop to ensure each is locked.

Important: Warning Decal Note

When the installation of your “Hutch” slider is complete and the trailer and/or subframe has been painted, the decal (shown here) must be installed in plain view on the road side of the trailer immediately above the suspension. The decal must be in plain view on each trailer equipped with a “Hutch” slider, and must be read before using the sliding suspension. Decals are shipped with the slider units. If decals are not received, or if for any reason additional decals are wanted, contact our Customer Service Department at (417) 862-5012 or fax (417) 862-2317 and decals will be shipped promptly at no charge.

 WARNING	
FAILURE TO LOCK THE SLIDING SUSPENSION CAN CAUSE A LOSS OF VEHICLE CONTROL, DEATH, SERIOUS BODILY INJURY, AND PROPERTY DAMAGE.	
OPERATIONAL INSTRUCTIONS FOR SLIDERS WITH HUTCHENS "EZ PULL" PIN SYSTEM.	
<small>THIS TRAILER IS EQUIPPED WITH A SLIDING SUSPENSION THAT MUST BE SECURELY LOCKED PRIOR TO OPERATION. THE SLIDING SUSPENSION IS LOCKED WHEN THE MAIN BODY OF EACH LOCK PIN EXTENDS THROUGH THE HOLES IN THE RAILS. BEFORE PULLING THE TRAILER, THE SLIDING SUSPENSION MUST BE CAREFULLY INSPECTED TO ENSURE IT IS PROPERLY POSITIONED AND THE MAIN BODY OF EACH LOCK PIN DOES EXTEND THROUGH THE HOLE IN THE RAILS. BEFORE PULLING THE TRAILER, APPLY THE TRAILER BRAKES AND GENTLY ROCK TRAILER BACKWARDS AND FORWARDS TO ENSURE SLIDING SUSPENSION IS SECURE.</small>	
<small>TO POSITION THE SLIDING SUSPENSION:</small>	
<small>1. Set both tractor and trailer brakes.</small>	
<small>2. Remove locator bar from behind slider and move to desired location.</small>	
<small>3. To retract the lock pins, grasp the pull handle in the conventional manner and pull it all the way out until the locking notch in the rod engages the slot in the slider rail.</small>	
<small>NOTE: Some or all of the lock pins may not retract when the handle is in the outboard position.</small>	
<small>4. If any of the lock pins do not retract after the pull handle is in the outboard position, gently rock the trailer back and forth with the trailer brakes applied. As soon as any binding between the pins and the body rail is relieved, the lock pins will retract.</small>	
<small>5. Carefully drive forward or backward until the sliding suspension is at the desired location.</small>	
<small>6. Release pull handle and visually check that each lock pin has returned to the locked position and extends completely through the holes in the body rails.</small>	
<small>NOTE: It may be necessary to rock the trailer backwards and forwards to allow all the lock pins to line up with the holes in the rails.</small>	
<small>7. Lock the locator bar in the body rails immediately behind the slider. Inspect the slider at each stop to ensure that all lock pins are fully engaged in the body rails.</small>	
	<small>Hutchens Industries, Inc., P.O. Box 1427, Springfield, Missouri 65801-1427 Toll Free 1 (800) 654-8824 Decal Part Number 24762-01</small>