

9700 TWS

Trailer Suspension Series

Configurations & Parts Identification



Advancing the Practical Application of Suspension Technology

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Application

The 9700 Tandem Wide Spread (TWS) Series suspensions are designed to meet the needs of those who require a longer wheel base to better distribute trailer weight, and to keep the gross trailer weight or the weight of each individual axle within lawful limits. A variety of hanger styles and axle configurations allow the 9700 TWS to be adapted to virtually any type of frame.

Capacity

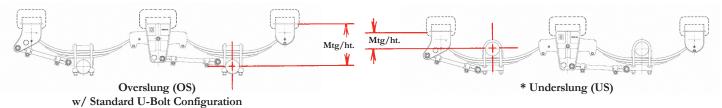
Heavy-duty three leaf or eight leaf springs are recommended for use with 9700 TWS suspensions. When equipped with these springs, the Gross Axle Weight Rating (G.A.W.R.) is 25,000 lbs./axle. When equipped with standard three leaf or seven leaf springs the G.A.W.R. is 22,400 lbs./axle.

Features

- ► A Huck "lockbolt" fastening system for the rocker/rocker hanger assembly that is virtually maintenance free.
- ► Lightweight, fabricated hangers and equalizers with 1/2" wear pads to reduce wear at all spring contact points.
- ► Cast steel hangers and equalizers with increased wall thickness at spring contact points...eliminating the need for additional wear pads.
- ► The industry's finest rocker bushing...combining a new rubber compound and improved bushing installation techniques, coupled with dimensional changes in the bushing and fasteners.
- ► A redesigned top plate that is lighter and offers greater stability under U-bolt clamp loads.
- ► Wrapped fabricated torque arm eye ends that utilize a single 5/8" bolt and a higher clamp load to prevent separation under extreme conditions.
- ► Torque arm screws that are coated with "NEVER-SEEZ", and then painted to resist corrosion while allowing easy adjustment for suspension alignment.
- ► A multitude of mounting heights resulting from a variety of spring seat heights and suspension configurations.

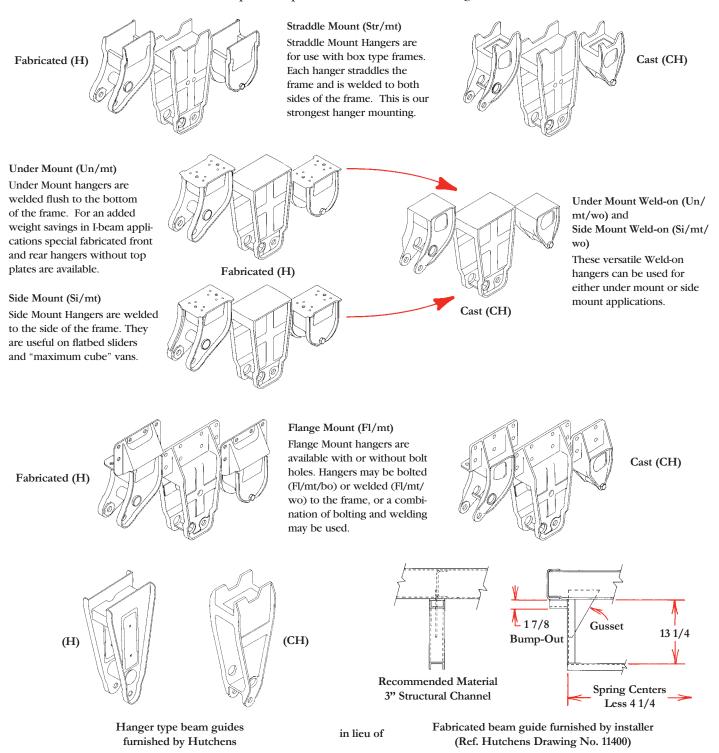
Options

The 9700 TWS Series suspensions are, by definition, tandem axle units. However, multi-axle configurations – suspensions having more than two axles – are possible. A tri-axle suspension consists of a tandem axle kit plus a multi-axle conversion kit. Many such combinations are possible.



^{*} Available on 54.5", 57.5", 61", 67", 73" and 81" models when utilizing Str/mt, Un/mt and Fl/mt hangers only. Available on 97", 109" and 121" models when utilizing Un/mt hangers only.

All 9700 Series suspensions are available with either fabricated or cast steel hangers. These hangers come in various styles. Please note that on all intermediate widespread suspensions the center rocker hanger is cast.



Note: Wear pads of UHMW Polymer are factory installed in the fabricated hanger type beam guides.

Beam guides are not a requirement on widespread units up to 60". From 60" up to 71", a single beam guide is required on the rear. From 72" on up, front and rear beam guides are required. The fabricated channel type beam guide (Ref. Hutchens Drawing No. 11400) is used on widespread axle spacings from 60" through 81". On the 72" to 81" spreads, this fabricated channel guide is used on the front and rear. From 97" on up, the front guide can either be the fabricated channel or hanger type, while the rear guide must be of the hanger type for torque arm attachment. If you should have any questions regarding beam guide usage and/or placement, please contact Hutchens for assistance. Hanger spacings for the various TWS units can be found with their appropriate isometric illustrations. Axle spacings of 54.5", 57.5", 61", 67", 73", 81", 109" and 121" will be covered in this section. For the availability of axle spacings not covered in this section, please contact Hutchens Industries.

As an option to the Huck fastener, a single cap screw fastener is available for the rocker and center rocker hanger. This system is also offered as a replacement for the Huck fastener should that become necessary.



Spring seats and U-bolts to fit 5" round axles (shown below) are standard. These spring seats range in height from 3/4" to 4 3/4" in 1/2" increments. Spring seats and U-bolts for special axle shapes are available as an option.



A no-hop feature is available for rear axle application on overslung H and CH 9700 models with axle spacings of 54.5", 57.5", 61", 67", 73" and 81". The no-hop feature is standard on the overslung 9700 TWS units with axle spacings of 97", 109" and 121". This feature is designed to prevent rear axle rotation and the resulting "chatter" or "hop" that sometimes occurs when an empty trailer brakes hard. All overslung H and CH 9700 Series suspensions are available with optional 3/4" U-bolts in lieu of the standard 7/8" U-bolts. These model variations are standard catalog items. Many more combinations are possible. If your particular need is not covered in this publication, please contact Hutchens for assistance.

How To Order Your 9700 TWS Series Suspension System

With so many options available on the 9700 TWS Series suspensions, the basis of any order must begin with a complete description of the unit. The following procedure will provide the descriptive information required. (Note: A definition for any abbreviation listed may be found in the Options section of this booklet.)

- **1.** Determine the number of axles required and the spacing of these axles. Unless otherwise specified, tandem axles are assumed.
- **2.** Select the style of hangers required to mount the suspension on your particular frame or subframe. Specify whether these hangers are to be fabricated (H) or cast (CH) steel. With certain axle configurations some styles of hangers are not recommended; therefore, refer to the Options section of this booklet.
- **3.** Determine the mounting height (Mtg/ht) your application requires. For your convenience, a Mounting Height Chart may be found on Page 4 of this booklet. From this chart please note that mounting height is dependent upon:
 - a) Suspension configuration Overslung or Underslung. Unless otherwise specified, suspension configuration is assumed to be overslung.
 - b) Axle size -5" Round or other. (Hutchens does not manufacture or sell axles.)
 - c) Spring seat height 3/4" to 4 3/4" in 1/2" increments.
 - d) Spring type Standard or Heavy-Duty, number of leaves and spring arch. Hutchens is not a spring manufacturer. As a service to our customers we will supply springs upon request. Whether or not we provide you with springs, we will need to know what springs you intend to use to assure we furnish the appropriate U-bolt for the spring and spring seat combination you've ordered.
- **4.** Choose which U-bolt size you would like (either the standard 7/8" or the optional 3/4" size).

Note: In many instances more than one combination will result in the same mounting height. Therefore, all of the aforementioned factors should be taken into consideration when ordering.

Example: A tandem axle (T) 9700 Series suspension with an axle spacing of 109" (WS – Wide Spread) requiring a mounting height of 17" and fabricated (H) straddlemount hangers (Str/mt) for use with 3/4" U-bolts and 5" round axles with 752-06 springs and forward beam guides would be ordered as follows:

Quantity	Fabricated Steel	Series No.	Tandem Widespread	Axle Spacing	Straddlemount Hangers	For use with 3/4" U-bolts	5" Round Axles	See Mtg/ht Chart	With 752-06 Springs	And forward beam guides	
1 ea.	Н	9700	TWS	109	Str/mt	3/4" U-bolts	5" rd.	3/4" seat		52-06 springs and forward	
									t	eam guides	

Example: A tandem axle (T) 9700 Series suspension with an axle spacing of 61" (WS – Wide Spread) requiring a mounting height of 51/2" and cast (CH) undermount hangers (Un/mt) in an underslung (US) configuration for use with 4" x 6" rectangular axles less 365-00 springs would be ordered as follows:

Quantity	Cast Steel	Series No.	Underslung Config.	Tandem Widespread	Axle Spacing	Undermount Hangers	4" x 6" Rect. Axles	See Mtg/ht Chart	Less 365-00 Springs
1 ea.	СН	9700	US	TWS	61	Un/mt	4" x 6" rect.	3/4" seat	L/ 365-00 springs

Mounting Height Chart: Nominal Values For No-Load Conditions

5" (127mm) Round Axles With 3/4" (19mm) Spring Seats

			Overslung Config.	Underslung Config
Spring Part No.	Description	GAWR (lbs.)	Tandem Axle 73" (1854mm) Axle Centers	Tandem Axle 73" (1854mm) Axle Centers
324-01	Hi-arch, 2-leaf	22,400	16" (406mm)	7 1/2" (191mm)
325-01	Med-arch, 2-leaf	22,400	14 1/2 (368)	6 (152) **
326-01	Low-arch, 2-leaf	22,400	13 1/2 (343)	5 1/2 (140) **
354-00	Hi-arch, 3-leaf	22,400	16 (406)	7 (178)
355-00	Med-arch, 3-leaf	22,400	14 1/4 (362)	5 1/2 (140) **
356-00	Low-arch, 3-leaf	22,400	13 3/4 (349)	4 1/2 (114) **
363-00	Low-arch, 1-leaf	22,400	13 3/4 (349)	5 3/4 (146) **
365-00	Hi-arch, 3-leaf H.D.	25,000	16 (406)	6 1/2 (165)
365-01	Low-arch, 3-leaf H.D.	25,000	13 3/4 (349)	4 1/4 (108) **
751-01	Low-arch, 7-leaf	22,400	NR	NR
751-05	Hi-arch, 7-leaf	22,400	NR	NR
751-06	Hi-arch, 7-leaf	22,400	16 1/4 (413)	6 1/8 (156)
752-01	Low-arch, 8-leaf H.D.	25,000	14 1/4 (362)	3 5/8 (92) **
752-05	Hi-arch, 8-leaf H.D.	25,000	NR	NR
752-06	Hi-arch, 8-leaf H.D.	25,000	16 3/4 (425)	6 1/8 (156)
16316-01	Low-arch, FRP H.D.*	24,000	14 1/2 (368)	4 1/2 (114) **
16710-01	Med-arch, 2-leaf, 2 stage	22,400	14 3/4 (375)	5 1/4 (133) **
17882-01	Med-arch, 2-leaf, 2 stage †	22,400	14 3/4 (375)	5 1/4 (133) **

^{*} FRP mounting heights include additional 1/4" (6mm) for reinforced seats. ** Not to be used with 97", 109" and 121" underslung configurations. † Middle spring for multi-axle widespread.

Notes

- **1.** Mounting heights shown are for 73" axle spacings. For other spacings apply the following corrections: 54 1/2" subtract 3/8" (10mm), 61" subtract 1/4" (6mm), 67" subtract 1/8" (3mm), 73" shown above, 81" add 1/8" (3mm), 97" add 1/4" (6mm), 109" add 1/2" (13mm), 121" add 3/4" (19mm).
- **2.** Mounting heights given are for units with 5" (127mm) round axles and 3/4" (19mm) spring seats. Add 1/2" (13mm) to the mounting height shown for each 1/2" (13mm) increase in spring seat height.
- **3.** The mounting heights for 5" x 5" (127mm x 127mm) square axles are the same as those for 5" (127mm) round axles. To obtain the mounting heights for overslung 4" x 6" (102mm x 152mm) rectangular axles add 1/2" (13mm) to the appropriate 5" (127mm) round mounting height. For underslung 4" x 6" (102mm x 152mm) axles subtract 1/2" (13mm) from the appropriate 5" (127mm) round mounting height.
- **4.** Mounting heights shown are for Undermount, Sidemount and Flangemount hangers. Subtract 1/4" (6mm) for Straddlemount hangers.
- **5.** Mounting heights shown are for fabricated hangers...springs unloaded. These dimensions should be considered approximations due to spring tolerances, etc. Cast hangers produce slightly lower heights: 1/4" (6mm) 3/8" (10mm).
- **6.** Mounting heights must not exceed 17 1/4" (438mm) on No-Hop suspensions. For best performance, do not exceed 17 1/4" (438mm) mounting heights on any suspension.
- **7.** It is recommended that a minimum of 4 1/2" (114mm) vertical clearance be maintained above the tires with trailer or chassis in an unloaded condition.

H and CH-9700 TWS 54.5" and 57.5"

Bill of Materials

	·	Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart A, Below	2	Front Spring Hanger
2	See Chart A, Below	2	Center Rocker/Rocker Hanger Assembly
3	See Chart A, Below	2	Rear Spring Hanger Assembly
4	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
5	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
6	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
7	See Chart C, Page 8	8	U-Bolt - Standard 7/8" U-Bolt (Shown)
8	16868-01	4	Top Plate
9	17350-02	4	Galvanized Liner ①
10	See Spring Appendix	4	Spring Assembly - Standard 3-Leaf (Shown)
11	See Chart B, Below	4	Spring Seat - 5" Round (Shown)
12	See Chart D, Page 8	4	Bottom Plate - 5" Round (Shown)
13	35-00 or	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt Shown)
	817-00	16	Washer - 1/8" x 13/16 ID x 1 1/2 OD (For Optional 3/4" U-Bolt)
14	34-04 or	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt Shown)
	16303-01	16	Hex Nut - 3/4" - 16 UNF (For Optional 3/4" U-Bolt)
15	16398-04	1	Adj. Radius Rod w/ Bushing – 19 1/4 LG, Front Roadside (LH) Only
	16398-05	2	Adj. Radius Rod w/ Bushing - 20 1/4 LG, 54.5" Axle Spacing
	16398-07	2	Adj. Radius Rod w/ Bushing - 22 1/4 LG, 57.5" Axle Spacing
16	See Chart E, Page 8	2	Spring Seat - Replaces Rear Spring Seat Only
17	See Chart E, Page 8	2	Attach Fitting - Replaces Rear Bottom Plate Only
18	See Chart E, Page 8	2	Adj. Radius Rod w/ Bushing - Replaces 2 Adj. Radius Rods on Rear Axle Only
19	7717-01	2 per Hanger	Washer Bushing - Replaces Sideplate Washer 10561-00 on Fabricated (H) Front
			and Center Hangers Only
20	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
21	37-03	2 per Rocker	Hex Lock Nut - 5/8" - 18 UNF, GRB (Shipped loose, not part of center rocker
		1 per Rear Hgr.	& hanger assy. However it is part of the rear hanger assy.)
22	756-00	2 per Rocker	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of
		1 per Rear Hgr.	center rocker & hanger assy. However it is part of the rear hanger assy.)
23	759-00	2 per Rocker	Hex Bolt - 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
24	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
25	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 ID x 2 1/4 OD
26	24820-01	2	Fabricated Rocker Assembly w/ Rubber Bushing - 54.5" Axle Spacing
	21833-01	2	Fabricated Rocker Assembly w/ Rubber Bushing - 57.5" Axle Spacing
27	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
28	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
29	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00,
		-	1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03

Chart A - Hanger: For Overslung and Underslung 54.5" and 57.5" Models

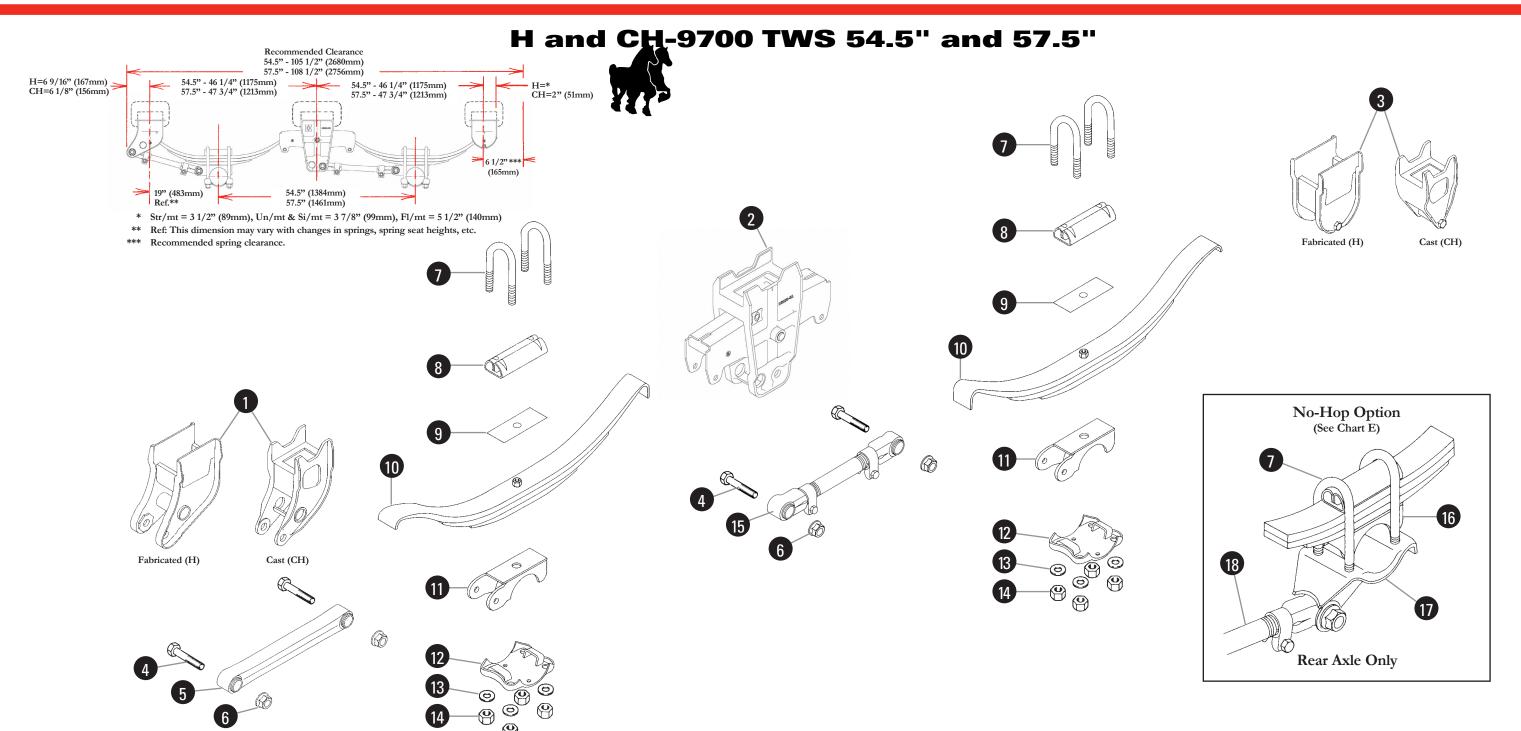
				Hanger Configuration	on		
Description	Part No.	Str/mt	Un/mt	Un/mt (I-beam)	Si/mt	Fl/mt/wo	Fl/mt/bo
Front Hgr., Fab. (H)	7701-	-01	20728-01	16481-01	L 20729-01 R 20730-01	L-05 R-06	L-07 R-08
Front Hgr., Cast (CH)		702-01	L 16291-03	NA	L 16291-03	L 702-09	L 702-11
			R 16291-04		R 16291-04	R 702-10	R 702-12
Rocker & Hgr. Assembly 54.5"	17160-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Rocker & Hgr. Assembly 57.5"	16450-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Rocker Hgr. Only, Cast (CH)		16180-01	16181-01	16181-01	16181-01	L 16183-05	L 16183-03
54.5" & 57.5"						R 16183-06	R 16183-04
Rear Hgr. Assy., Fab. (H)	7703-	-01	20732-01	16483-01	L-20733-01 R 20734-01	L-05 R-06	L-07 R-08
Rear Hgr. Assy., Cast (CH)		712-01	L 16293-01	NA	L 16293-01	L 712-09	L 712-11
			R 16293-02		R 16293-02	R 712-10	R 712-12

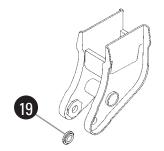
Chart B - Spring Seat

Seat Height		3/4"	1 1/4"	13/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 1/4"	4 3/4"
5" Round	19360-	-01	-02	-03	-04	-05	-06	-07	-08	-09
5" x 5" Square	19365-	-01	-02	-03	-04	-05	-06	-07	-08	-09
4" x 6" Rect.	19364-	-01	-02	-03	-04	-05	-06	-07	-08	-09

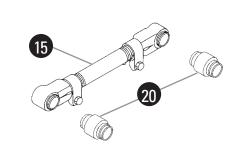
¹ Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf springs).

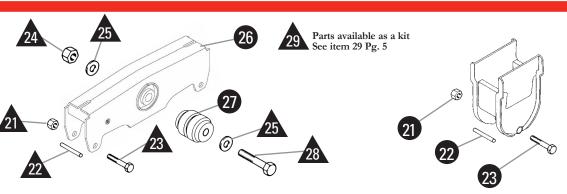






Replacement Parts





H and CH-9700 TWS 54.5" and 57.5"

16 1/4

Chart C - U-Bolt

	5" Round Axle													
	U-Bolts													
	7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below													
	16300 – See Below, Opt. 3/4 Dia. x 3 Rd. x See Length Below													
	Single Two Three Seven Eight													
Seat	Leaf		Leaf		Leaf		Leaf		Leaf					
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length				
3/4	-06	9 3/4	-07	10 1/4	-08	10 3/4	-10	11 3/4	-11	12 1/4				
1 1/4	-07	10 1/4	-08	10 3/4	-09	11 1/4	-11	12 1/4	-12	12 3/4				
1 3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4				
2 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4				
2 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4				
3 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4				
3 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4				
4 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4				

-14 13 3/4 -15 14 1/4 -16 14 3/4 -18 15 3/4 -19 5" x 5" Square Axle

-1	۱_	В	O	lts

	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength	Below	
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
2 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4
3 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4
3 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4
4 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4
4 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4

4" x 6" Rectangle Axle

U-Bolts

	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength	Below	
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4
2 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4
3 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4
3 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4
4 1/4	-17	15 1/4	-18	15 3/4	-19	16 1/4	-21	17 1/4	-22	17 3/4
4 3/4	-18	15 3/4	-19	16 1/4	-20	16 3/4	-22	17 3/4	-23	18 1/4

Chart D - Bottom Plate

Axle Size	Part No.
5" Rd. w/ 7/8" Dia. U-Bolts	710-00
5" Rd. w/ 3/4" Dia. U-Bolts	16297-01
5" x 5" Square	7747-01
4" x 6" Rect.	7746-00

Chart E - No-Hop Option

5" Round Axle

1	Τ.	Ra	140

	7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below											
	16300 – See Below, Opt. 3/4 Dia. x 3 Rd. x See Length Below											
	Single		Two		Three		Seven		Eight			
Seat	Leaf		Leaf		Leaf		Leaf		Leaf			
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length		
3/4	-06	9 3/4	-07	10 1/4	-08	10 3/4	-10	11 3/4	-11	12 1/4		
1 1/4	-07	10 1/4	-08	10 3/4	-09	11 1/4	-11	12 1/4	-12	12 3/4		
1 3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4		
2 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4		
				A 1								

Axle Group

	Radi	us Rod	Attach	Fitting	
Seat	16398-See Below		(w/ Std. 7/8	(w/ Opt. 3/4	
Height	54.5"	57.5"	Dia. U-Bolts)	Dia. U-Bolts)	Seat
3/4	-07	-08	10775-00	16308-01	22215-01
1 1/4	-07	-08	10775-00	16308-01	22215-02
1 3/4	-07	-08	10775-00	16308-01	22215-03
2 1/4	-07	-08	10775-00	16308-01	22215-04

5" x 5" Square Axle

				•	J -D 01	ıs						
	7040 - See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below											
	Single		Two		Three		Seven		Eight			
Seat	Leaf		Leaf		Leaf		Leaf		Leaf			
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length		
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4		
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4		
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4		
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4		
				Ax	le Gro	nun						

Seat Height	Radius Rod	Attach Fitting	Seat	
3/4	Contact	7738-01	22226-01	
1 1/4	Factory	7738-01	22226-02	
1 3/4	For	7738-01	22226-03	
2 1/4	Availability	7738-01	22226-04	

4" x 6" Rectangle Axle

U-Bolts

	7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below										
	Single		Two		Three		Seven		Eight		
Seat	Leaf		Leaf		Leaf		Leaf		Leaf		
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length	
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4	
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4	
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4	
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4	

Axle Group

Seat Height	Radius Rod	Attach Fitting	Seat
3/4	Contact	7738-00	22228-01
1 1/4	Factory	7738-00	22228-02
1 3/4	For	7738-00	22228-03
2 1/4	Availability	7738-00	22228-04

^{*} When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs.

^{**} When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

H and CH-9700 US TWS 54.5" and 57.5"

Bill of Materials

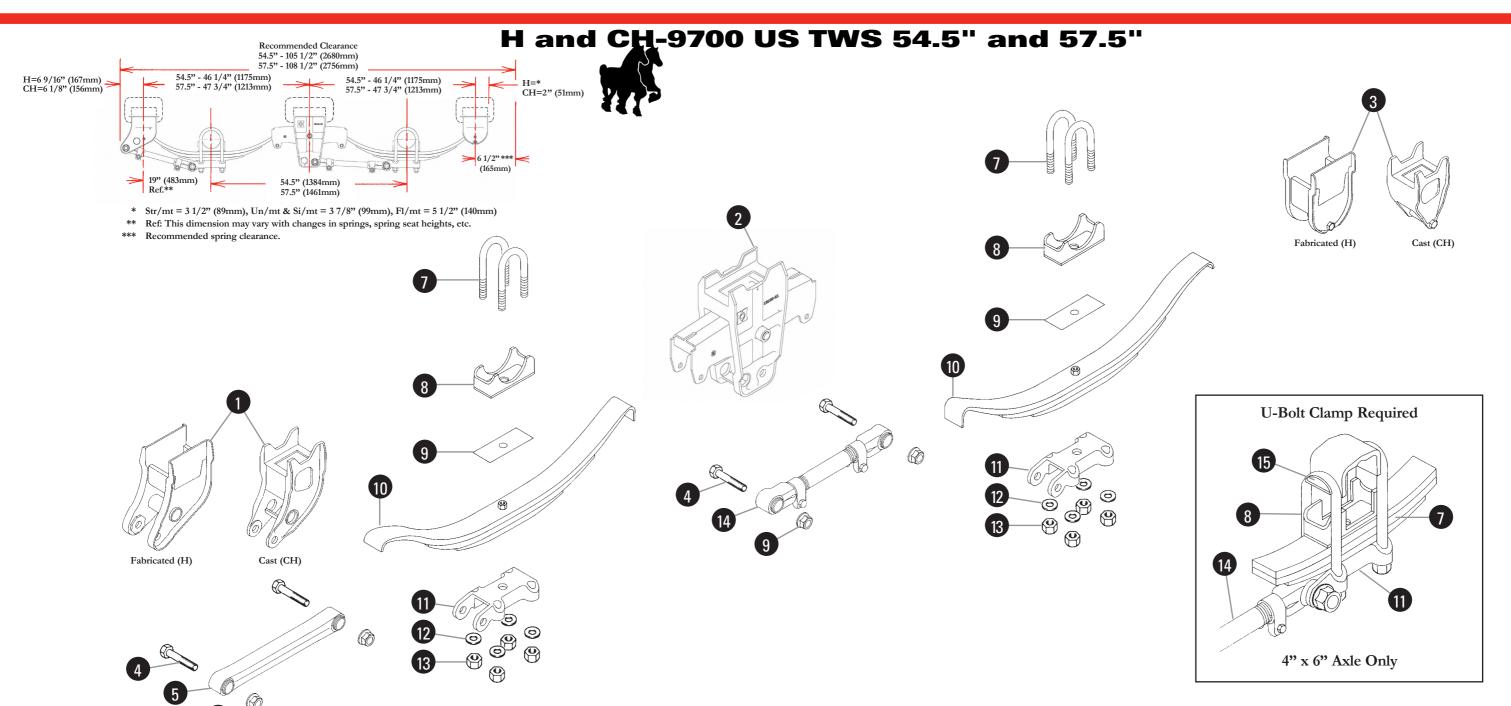
		Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart A, Below	2	Front Spring Hanger
2	See Chart A, Below	2	Center Rocker/Rocker Hanger Assembly
3	See Chart A, Below	2	Rear Spring Hanger Assembly
4	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
5	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
6	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
7	See Chart F, Page 12	8	U-Bolt – Standard 7/8" U-Bolt
8	See Chart G, Page 12	4	Spring Seat - 5" Round (Shown)
9	17350-02	4	Galvanized Liner 1
10	See Spring Appendix	4	Spring Assembly - Standard 3-Leaf (Shown)
11	706-01	4	Bottom Plate Att.
12	35-00	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt)
13	34-04	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt)
14	16398-04	1	Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Roadside (LH) Only
	16398-05	2	Adj. Radius Rod w/ Bushing - 20 1/4" LG, 54.5" Axle Spacing
	16398-07	2	Adj. Radius Rod w/ Bushing - 22 1/4" LG, 57.5" Axle Spacing
15	6786-00	4	U-Bolt Clamp - 4" x 6" Rect. Axle Only
16	7717-01	2 per Hanger	Washer Bushing - Replaces Sideplate Washer 10561-00 on Fabricated (H) From and Center Hangers Only
17	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
18	37-03	2 per Rocker	Hex Lock Nut - 5/8" - 18 UNF, GRB (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
19	756-00	2 per Rocker	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
20	759-00	2 per Rocker	Hex Bolt - 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
21	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
22	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 ID x 2 1/4 OD
23	24820-01	2	Fabricated Rocker Assembly w/ Rubber Bushing - 54.5" Axle Spacing
	21833-01	2	Fabricated Rocker Assembly w/ Rubber Bushing - 57.5" Axle Spacing
24	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
25	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
26	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00, 1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03

Chart A - Hanger: For Overslung and Underslung 54.5" and 57.5" Models

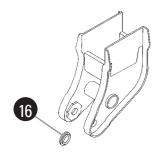
	Hanger Configuration						
Description	Part No.	Str/mt	Un/mt	Un/mt (I-beam)	Si/mt	Fl/mt/wo	Fl/mt/bo
Front Hgr., Fab. (H)	7701-	-01	20728-01	16481-01	L 20729-01 R 20730-01	L-05 R-06	L-07 R-08
Front Hgr., Cast (CH)		702-01	L 16291-03	NA	L 16291-03	L 702-09	L 702-11
			R 16291-04		R 16291-04	R 702-10	R 702-12
Rocker & Hgr. Assembly 54.5"	17160-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Rocker & Hgr. Assembly 57.5"	16450-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Rocker Hgr. Only, Cast (CH)		16180-01	16181-01	16181-01	16181-01	L 16183-05	L 16183-03
54.5" & 57.5"						R 16183-06	R 16183-04
Rear Hgr. Assy., Fab. (H)	7703-	-01	20732-01	16483-01	L-20733-01 R 20734-01	L-05 R-06	L-07 R-08
Rear Hgr. Assy., Cast (CH)		712-01	L 16293-01	NA	L 16293-01	L 712-09	L 712-11
			R 16293-02		R 16293-02	R 712-10	R 712-12

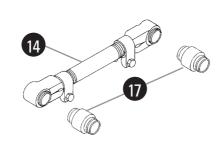
[•] Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf springs).

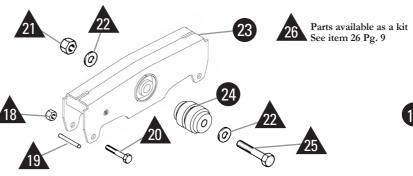


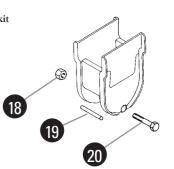












H and CH-9700 US TWS 54.5" and 57.5"

Chart F - U-Bolt

	5" Round Axle										
					U-Bolts						
	7816 – See Below, Std. 7/8 Dia. x 5 Rd. x See Length Below										
	Single		Two		Three		Seven		Eight		
Seat	Leaf		Leaf		Leaf		Leaf		Leaf		
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length	
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4	
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4	
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4	
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4	

				5" x 5	″ Squar	e Axle				
	U-Bolts									
	7840 – See Below, Std. 7/8 Dia. x 5 Sq. x See Length Below									
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-04	10 3/4	-05	11 1/4	-06	11 3/4	-08	12 3/4	-09	13 1/4
1 1/4	-05	11 1/4	-06	11 3/4	-07	12 1/4	-09	13 1/4	-10	13 3/4
1 3/4	-06	11 3/4	-07	12 1/4	-08	12 3/4	-10	13 3/4	-11	14 1/4
2 1/4	-07	12 1/4	-08	12 3/4	-09	13 1/4	-11	14 1/4	-12	14 3/4

le f	Two	Below, Std.	U-Bolts 7/8 Dia. x 3	Rd. x See Lo	ength Below Seven	7	Eight	
	Two	Below, Std.		Rd. x See Lo		7	Eight	
			Three		Seven		Eight	
I	Leaf		Leaf		Leaf		Leaf	
g Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
	10 3/4 11 1/4	10 3/4 -09 11 1/4 -10 11 3/4 -11	10 3/4 -09 11 1/4 11 1/4 -10 11 3/4 11 3/4 -11 12 1/4	10 3/4 -09 11 1/4 -10 11 1/4 -10 11 3/4 -11 11 3/4 -11 12 1/4 -12	10 3/4 -09 11 1/4 -10 11 3/4 11 1/4 -10 11 3/4 -11 12 1/4 11 3/4 -11 12 1/4 -12 12 3/4	10 3/4 -09 11 1/4 -10 11 3/4 -12 11 1/4 -10 11 3/4 -11 12 1/4 -13 11 3/4 -11 12 1/4 -12 12 3/4 -14	10 3/4 -09 11 1/4 -10 11 3/4 -12 12 3/4 11 1/4 -10 11 3/4 -11 12 1/4 -13 13 1/4 11 3/4 -11 12 1/4 -12 12 3/4 -14 13 3/4	10 3/4 -09 11 1/4 -10 11 3/4 -12 12 3/4 -13 11 1/4 -10 11 3/4 -11 12 1/4 -13 13 1/4 -14 11 3/4 -11 12 1/4 -12 12 3/4 -14 13 3/4 -15

Chart G - Spring Seat

Seat Height		3/4"	11/4"	13/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 1/4"	4 3/4"
5" Round	22215-	-01	-02	-03	-04	NR	_	_	_	_
5" x 5" Square	22226-	-01	-02	-03	-04	NR	_	_	_	_
4" x 6" Rect.	22228-	-01	-02	-03	-04	NR	_	_	_	_

 $^{^{\}ast}$ When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs. ** When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

H and CH-9700 TWS 61", 67", 73" and 81"

Bill of Materials

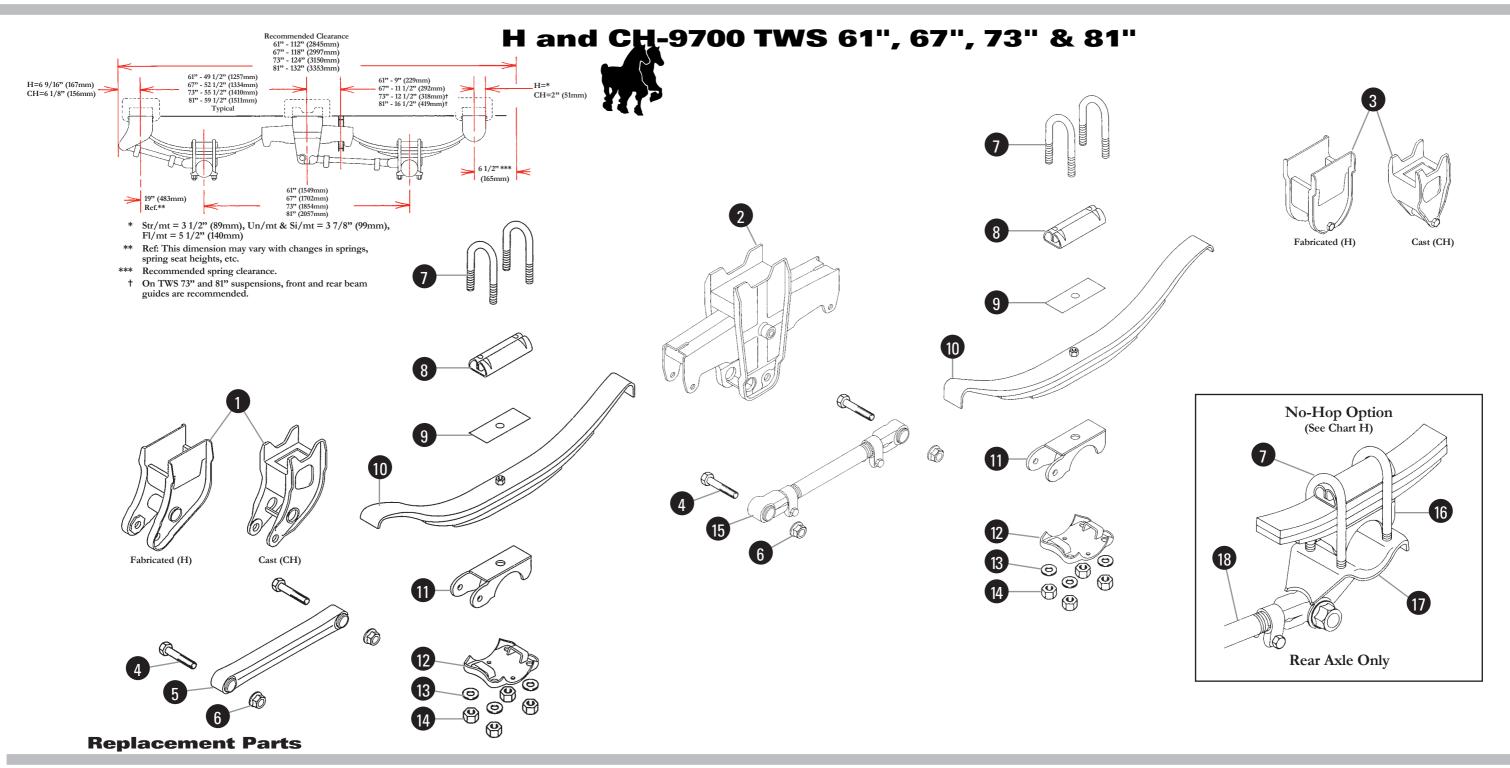
		Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart J, Page 20	2	Front Spring Hanger
2	See Chart J, Page 20	2	Center Rocker/Rocker Hanger Assembly
3	See Chart J, Page 20	2	Rear Spring Hanger Assembly
4	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
5	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
6	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
7	See Chart C, Page 16	8	U-Bolt - Standard 7/8" U-Bolt (Shown)
8	16868-01	4	Top Plate
9	17350-02	4	Galvanized Liner 0
10	See Spring Appendix	4	Spring Assembly – Standard 3-Leaf (Shown)
11	See Chart B, Below	4	Spring Seat - 5" Round (Shown)
12	See Chart D, Page 16	4	Bottom Plate - 5" Round (Shown)
13	35-00 or	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt Shown)
13	817-00	16	Washer - 1/8" x 13/16 ID x 1 1/2 OD (For Optional 3/4" U-Bolt)
14	34-04 or	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt Shown)
	16303-01	16	Hex Nut - 3/4" - 16 UNF (For Optional 3/4" U-Bolt)
15	16398-04	1	Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Roadside (LH) Only
	16398-08 or	2	Adj. Radius Rod w/ Bushing - 23 1/2" LG, 61" Axle Spacing
	16398-10 or	2	Adj. Radius Rod w/ Bushing - 26 1/2" LG, 67" Axle Spacing
	16398-12 or	2	Adj. Radius Rod w/ Bushing - 29 1/4" LG, 73" Axle Spacing
	16398-14	2	Adj. Radius Rod w/ Bushing - 33 1/2" LG, 81" Axle Spacing
16	See Chart H, Page 16	2	Spring Seat - Replaces Rear Spring Seat Only
17	See Chart H, Page 16	2	Attach Fitting - Replaces Rear Bottom Plate Only
18	See Chart H, Page 16	2	Adj. Radius Rod w/ Bushing - Replaces 2 Adj. Radius Rods on Rear Axle Onl
19	7717-01	2 per Hanger	Washer Bushing – Replaces Sideplate Washer 10561-00 on Fabricated (H) Front and Center Hangers Only
20	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
21	37-03	2 per Rocker 1 per Rear Hgr.	Hex Lock Nut - 5/8" - 18 UNF, GRB (Shipped loose, not part of center rocker & hanger assy. However it is part of the rear hanger assy.)
22	756-00	2 per Rocker 1 per Rear Hgr.	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of cent rocker & hanger assy.)
23	759-00	2 per Rocker 1 per Rear Hgr.	Hex Bolt – 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center rocker & hanger assy. However it is part of the rear hanger assy.)
24	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
25	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 ID x 2 1/4 OD
26	21834-01 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 61" Axle Spacing
	16168-03 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 67" Axle Spacing
	21835-01 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 73" Axle Spacing
	16168-07	2	Fabricated Rocker Assembly w/ Rubber Bushing, 81" Axle Spacing
27	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
28	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
29	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00, 1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03

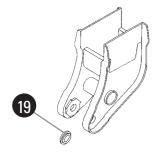
Chart B - Spring Seat

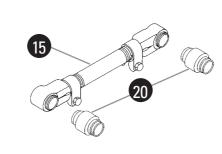
Seat Height		3/4"	11/4"	13/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 1/4"	4 3/4"
5" Round	19360-	-01	-02	-03	-04	-05	-06	-07	-08	-09
5" x 5" Square	19365-	-01	-02	-03	-04	-05	-06	-07	-08	-09
4" x 6" Rect.	19364-	-01	-02	-03	-04	-05	-06	-07	-08	-09

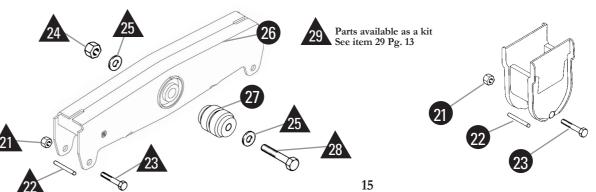
[•] Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf) springs.











H and CH-9700 TWS 61", 67", 73" and 81"

16 1/4

Chart C - U-Bolt

5" Round Axle

U-Bolts

				,) -D 01	ıs				
	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength	Below	
	16300	- See B	elow, (Opt. 3/	4 Dia.	x 3 Rd.	x See	Length	Below	7
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-06	9 3/4	-07	10 1/4	-08	10 3/4	-10	11 3/4	-11	12 1/4
1 1/4	-07	10 1/4	-08	10 3/4	-09	11 1/4	-11	12 1/4	-12	12 3/4
1 3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
2 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
2 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
3 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
3 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4
4 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4

5" x 5" Square Axle

-15 14 1/4 -16 14 3/4 -18 15 3/4

U-Bolts

	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength.	Below	
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
2 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4
3 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4
3 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4
4 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4
4 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4

4" x 6" Rectangle Axle

	n 1	
1 1-1	Kol	ts

				•	J- D 01	13				
	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength !	Below	
Seat	Single Leaf		Two Leaf		Three Leaf		Seven Leaf		Eight Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4
2 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4
3 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4
3 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4
4 1/4	-17	15 1/4	-18	15 3/4	-19	16 1/4	-21	17 1/4	-22	17 3/4
4 3/4	-18	15 3/4	-19	16 1/4	-20	16 3/4	-22	17 3/4	-23	18 1/4

Chart D - Bottom Plate

Axle Size	Part No.
5" Rd. w/ 7/8" Dia. U-Bolts	710-00
5" Rd. w/ 3/4" Dia. U-Bolts	16297-01
5" x 5" Square	7747-01
4" x 6" Rect.	7746-00

Chart H - No-Hop Option

5" Round Axle

U-Bolts

7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below 16300 – See Below, Opt. 3/4 Dia. x 3 Rd. x See Length Below

	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-06	9 3/4	-07	10 1/4	-08	10 3/4	-10	11 3/4	-11	12 1/4
1 1/4	-07	10 1/4	-08	10 3/4	-09	11 1/4	-11	12 1/4	-12	12 3/4
1 3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
2 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
				Α	La Car					

Axle Group

	Spring		Radiu	s Rod		Attach	Fitting	Spring
	Seat		16398- Se	ee Below		(7/8" Dia. U-Bolts)	(3/4" Dia. U-Bolts)	Seat
	Height	61"	67"	73"	81"			
	3/4	-09	-11	-13	-15	10775-00	16308-01	22215-01
	1 1/4	-09	-11	-13	-15	10775-00	16308-01	22215-02
_	1 3/4	-09	-11	-13	-15	10775-00	16308-01	22215-03
	2 1/4	-09	NR	NR	NR	10775-00	16308-01	22215-04

5" x 5" Square Axle

U-Bolts

	7040 -	- See B	elow, S	td. 7/8	Dia. x	3 Rd.	x See I	ength	Below	
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4

Axle Group

Spring Seat	Radius Rod 16398- See Below	Attach Fitting	Spring Seat
Height	61" 67" 73" 81"		
3/4	Contact	7738-01	22226-01
1 1/4	Factory	7738-01	22226-02
1 3/4	For	7738-01	22226-03
2 1/4	Availability	7738-01	22226-04

4" x 6" Rectangle Axle

U-Bolts

	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength :	Below		
	Single		Two		Three		Seven		Eight	Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf		
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length	
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4	
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4	
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4	
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4	

Spring Seat	1	Radiu 6398- Se	s Rod ee Below		Attach Fitting	Spring Seat
Height	61"	67"	73"	81"		
3/4		Con	tact		7738-00	22228-01
1 1/4		Fact	ory		7738-00	22228-02
1 3/4		Fo	or		7738-00	22228-03
2 1/4		Availa	bility		7738-00	22228-04

^{*} When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs.

^{**} When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

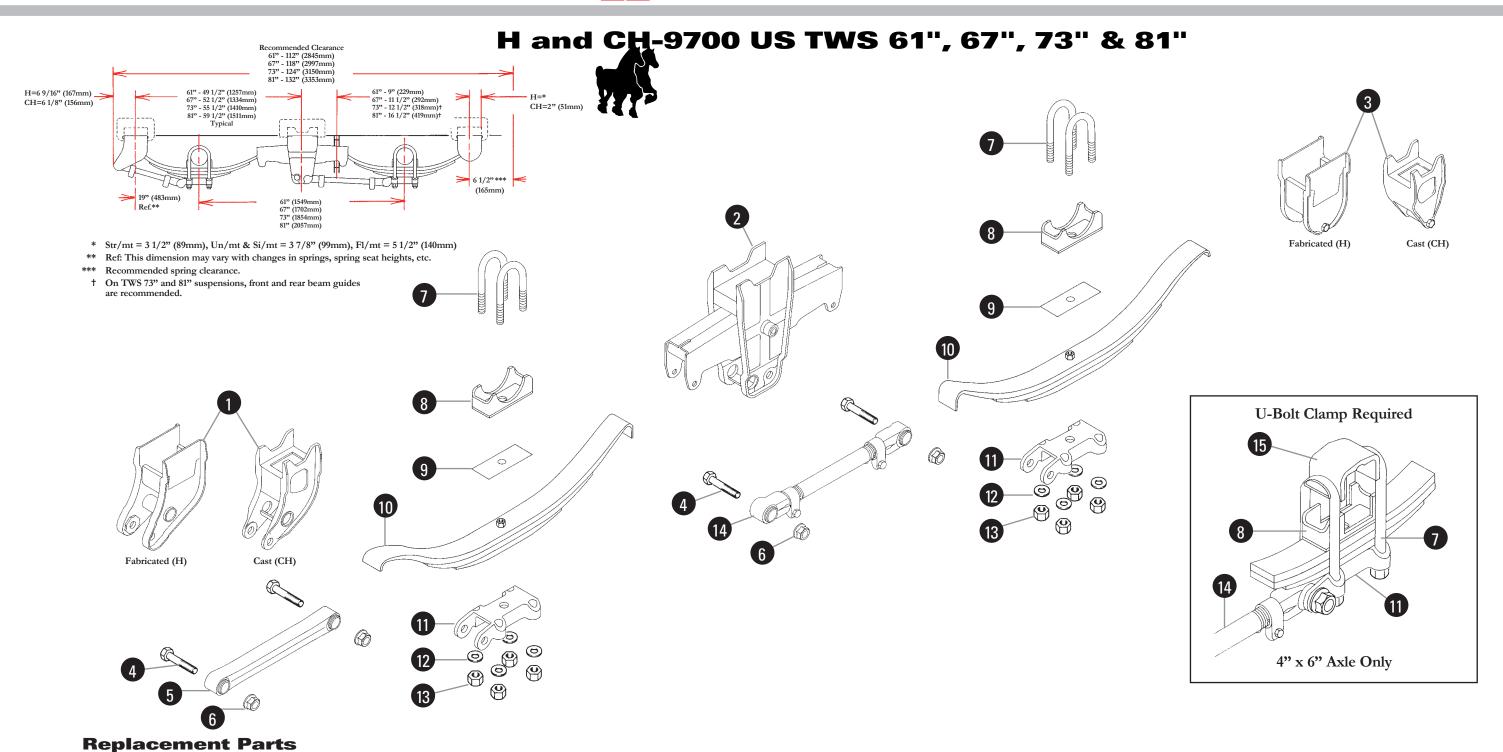
H and CH-9700 US TWS 61", 67", 73" and 81"

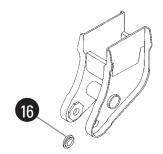
Bill of Materials

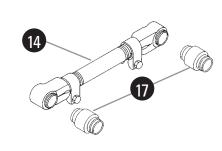
		Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart J, Page 20	2	Front Spring Hanger
2	See Chart J, Page 20	2	Center Rocker/Rocker Hanger Assembly
3	See Chart J, Page 20	2	Rear Spring Hanger Assembly
4	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
5	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
6	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
7	See Chart F, Page 20	8	U-Bolt – Standard 7/8" U-Bolt
8	See Chart G, Page 20	4	Spring Seat - 5" Round (Shown)
9	17350-02	4	Galvanized Liner ①
10	See Spring Appendix	4	Spring Assembly - Standard 3-Leaf (Shown)
11	706-01	4	Bottom Plate Att.
12	35-00	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt)
13	34-04	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt)
14	16398-04	1	Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Roadside (LH) Only
	16398-08 or	2	Adj. Radius Rod w/ Bushing - 23 1/2" LG, 61" Axle Spacing
	16398-10 or	2	Adj. Radius Rod w/ Bushing - 26 1/2" LG, 67" Axle Spacing
	16398-12 or	2	Adj. Radius Rod w/ Bushing - 29 1/4" LG, 73" Axle Spacing
	16398-14	2	Adj. Radius Rod w/ Bushing - 33 1/2" LG, 81" Axle Spacing
15	6786-00	4	U-Bolt Clamp - 4" x 6" Rect. Axle Only
16	7717-01	2 per Hanger	Washer Bushing - Replaces Sideplate Washer 10561-00 on Fabricated (H)
			Front and Center Hangers Only
17	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
18	37-03	2 per Rocker	Hex Lock Nut - 5/8" - 18 UNF, GRB (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
19	756-00	2 per Rocker	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
20	759-00	2 per Rocker	Hex Bolt - 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
21	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
22	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 OD x 2 1/4 OD
23	21834-01 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 61" Axle Spacing
	16168-03 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 67" Axle Spacing
	21835-01 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 73" Axle Spacing
	16168-07	2	Fabricated Rocker Assembly w/ Rubber Bushing, 81" Axle Spacing
24	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
25	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
26	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00,
			1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03

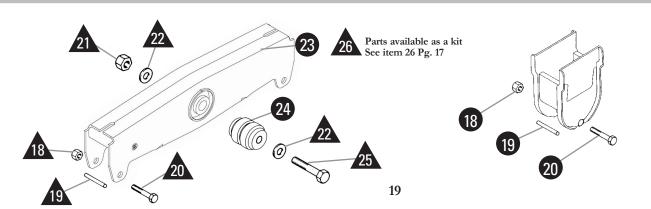
[•] Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf springs).











H and CH-9700 US TWS 61", 67", 73" and

Chart F - U-Bolt

	5" Round Axle												
	U-Bolts												
			7816 – See I	Below, Std.	7/8 Dia. x 5	Rd. x See Lo	ength Below	,					
Seat	Single Two Three Seven Eight Seat Leaf Leaf Leaf Leaf Leaf												
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length			
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4			
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4			
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4			
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4			

	5″ x 5″ Square Axle												
					U-Bolts								
			7840 – See 1	Below, Std.	7/8 Dia. x 5	Sq. x See Le	ength Below						
Seat													
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length			
3/4	-04	10 3/4	-05	11 1/4	-06	11 3/4	-08	12 3/4	-09	13 1/4			
1 1/4	-05	11 1/4	-06	11 3/4	-07	12 1/4	-09	13 1/4	-10	13 3/4			
1 3/4	-06	11 3/4	-07	12 1/4	-08	12 3/4	-10	13 3/4	-11	14 1/4			
2.1/4	-07	12 1/4	-08	12.3/4	-09	13 1/4	-11	14 1/4	-12	14 3/4			

	4" x 6" Rectangle Axle												
	U-Bolts												
	7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below												
	Single Two Three Seven Eight												
Seat	Leaf		Leaf		Leaf		Leaf		Leaf				
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length			
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4			
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4			
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4			
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4			

Chart G - Spring Seat

Seat Height		3/4"	11/4"	13/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 1/4"	4 3/4"
5" Round	22215-	-01	-02	-03	-04	NR	_	_	_	_
5" x 5" Square	22226-	-01	-02	-03	-04	NR	_	_	_	_
4" x 6" Rect.	22228-	-01	-02	-03	-04	NR	_	_	_	_

Chart J - Hanger: For Overslung and Underslung 61", 67", 73" and 81" Models

				Н	anger Configura	tion		
Description		Part No.	Str/mt	Un/mt	Un/mt (I-beam	n) Si/mt	Fl/mt/wo	Fl/mt/bo
Front Hgr., Fab. (H))	7701-	-01	20728-01	16481-01	16481-01 L 20729-01 R 20730-01		L-07 R-08
Front Hgr., Cast (CI	H)		702-01	L 16291-03	NA	NA L 16291-03		L 702-11
				R 16291-04		R 16291-04	R 702-10	R 702-12
Rocker, Fab (H)	61"	16451-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
& Hgr., Cast (CH)	67"	16452-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Assembly	73"	16453-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
	81"	16454-	L-01 R-02	L-03 R-04	L-03 R-04	L-03 R-04	L-09 R-10	L-07 R-08
Rocker Hgr. Only,			16180-01	16181-01	16181-01	16181-01	L 16183-05	L 16183-03
Cast (CH)							R 16183-06	R 16183-04
Rear Hgr. Assy., Fab). (H)	7703-	-01	20732-01	16483-01	L 20733-01 R 20734-01	L-05 R-06	L-07 R-08
Rear Hgr. Assy.,	,		712-01	L 16293-01	NA	L 16293-01	L 712-09	L 712-11
Cast (CH)				R 16293-02		R 16293-02	R 712-10	R 712-12

^{*} When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs.

^{**} When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

H-9700 TWS 97", 109" and 121"

Bill of Materials

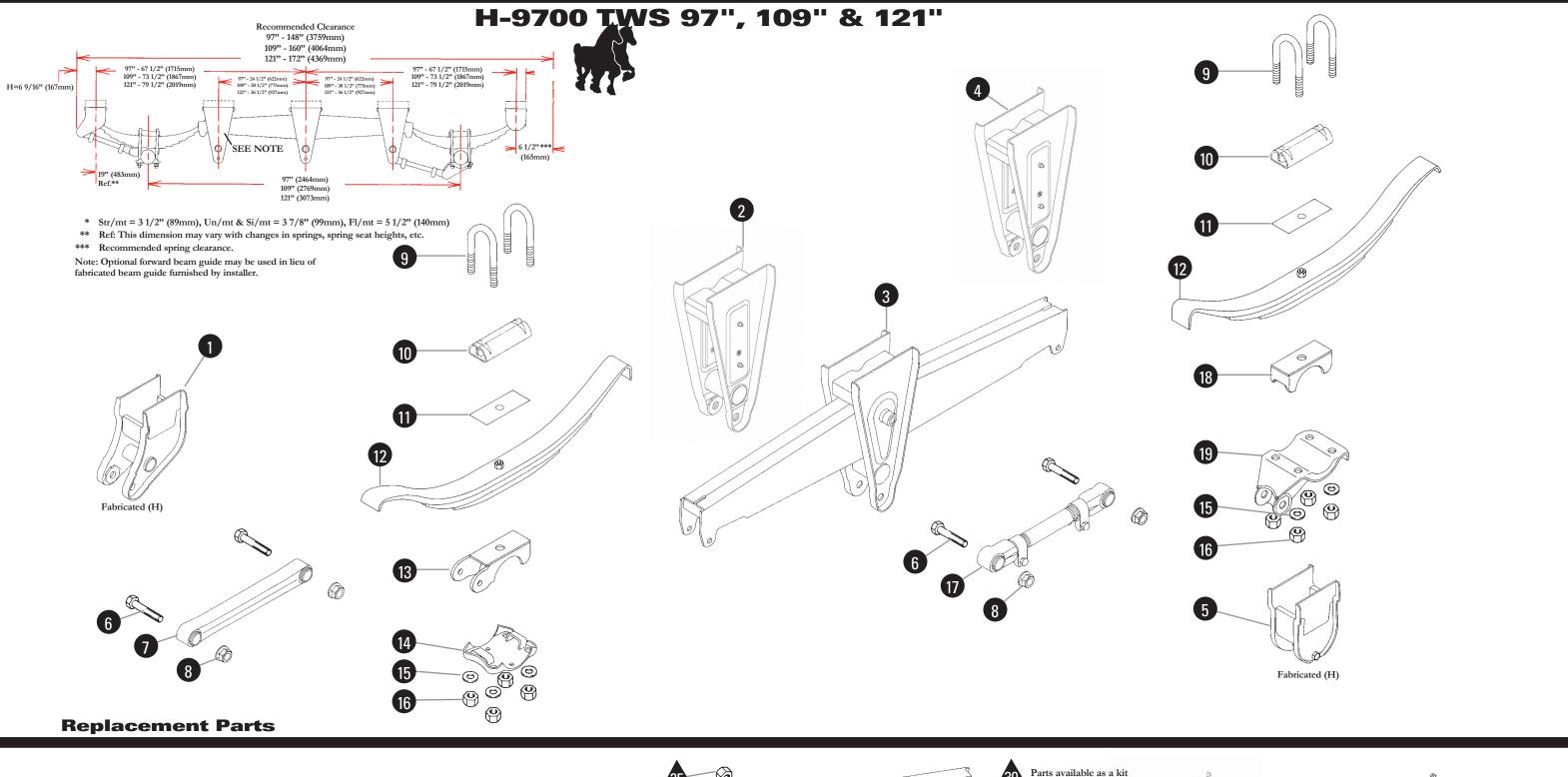
		Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart M, Page 28	2	Front Spring Hanger
2	See Chart M, Page 28	2	Front Beam Guide - Optional
3	See Chart M, Page 28	2	Center Rocker/Rocker Hanger Assembly - Fabricated
4	See Chart M, Page 28	2	Rear Beam Guide Att.
5	See Chart M, Page 28	2	Rear Spring Hanger Assembly
6	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
7	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
8	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
9	See Chart C, Page 24	8	U-Bolt - Standard 7/8" U-Bolt (Shown)
10	16868-01	4	Top Plate
11	17350-02	4	Galvanized Liner 0
12	See Spring Appendix	4	Spring Assembly - Standard 3-Leaf (Shown)
13	See Chart B, Below	4	Spring Seat - 5" Round (Shown)
14	See Chart D, Page 24		Bottom Plate - 5" Round (Shown)
15	35-00 or	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt Shown)
1)	817-00	16	Washer - 1/8" x 13/16 ID x 1 1/2 OD (For Optional 3/4" U-Bolt)
16	34-04 or	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt Shown)
	16303-01	16	Hex Nut - 3/4" - 16 UNF (For Optional 3/4" U-Bolt)
17	16398-04	1	Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Roadside (LH) Only
		2	Rear Both Sides (LH and RH) When Using 5" Round Axles
	16398-17	2	Adj. Radius Rod w/ Bushing - 17 LG Adj. To 17 1/4, Rear Both Sides
10	0 01 17 0 04	2	(LH and RH) When Using 5" x 5" Square or 4" x 6" Rect. Axles
18	See Chart K, Page 24		Spring Seat - 5" Round (Shown)
19	See Chart K, Page 24		Attach Fitting
20	7717-01	2 per Hanger	Washer Bushing – Replaces Sideplate Washer 10561-00 on Fabricated (H)
21	722.00	2 D-4 D-4	Front and Center Hangers Only
21	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
22	37-03	2 per Rocker 1 per Rear Hgr.	Hex Lock Nut - 5/8" - 18 UNF, GRB (Shipped loose, not part of center rocker & hanger assy. However it is part of the rear hanger assy.)
23	756-00	2 per Rocker	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of center
		1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
24	759-00	2 per Rocker	Hex Bolt - 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center
	1115/00	1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
25	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
26	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 OD x 2 1/4 OD
27	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
28	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
29	16168-09 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 97" Axle Spacing
	16168-10 or	2 2	Fabricated Rocker Assembly w/ Rubber Bushing, 109" Axle Spacing
20	16168-13		Fabricated Rocker Assembly w/ Rubber Bushing, 121" Axle Spacing Pocker Penlacement Bolt Kit Consisting of Lea 16150.01, 2 ea 837.00
30	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00, 1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03
31	11664-01	2 per Rocker Guide	Wear Pad - Rocker Guide - 1/4" x 2" x 10"
32	11623-03		Cap Screw - 5/16" - 18 UNC, GR8
33	11624-03	4 per Rocker Guide	Hex Lock Nut - 5/16" - 18 UNC, GRC

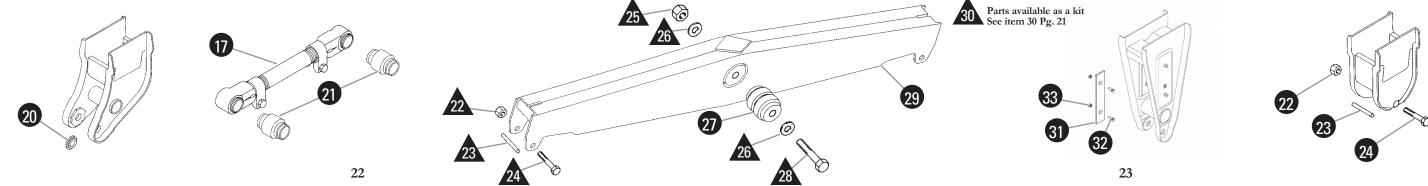
Chart B - Spring Seat

Seat Height		3/4"	1 1/4"	13/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 1/4"	4 3/4"
5" Round	19360-	-01	-02	-03	-04	-05	-06	-07	-08	-09
5" x 5" Square	19365-	-01	-02	-03	-04	-05	-06	-07	-08	-09
4" x 6" Rect.	19364-	-01	-02	-03	-04	-05	-06	-07	-08	-09

[•] Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf) springs.







H-9700 TWS 97", 109" and 121"

Chart C - U-Bolt

5" Round Axle **U-Bolts** 7040 - See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below 16300 - See Below, Opt. 3/4 Dia. x 3 Rd. x See Length Below Two Three Seven Leaf Leaf Leaf Seat Leaf Leaf Length Spring* Length Spring** Length Height Spring Spring Length Spring Length 3/4 -06 9 3/4 -07 10 1/4 -08 10 3/4 -10 11 3/4 -11 12 1/4 1 1/4 -07 10 1/4 -08 10 3/4 -09 11 1/4 -11 12 1/4 -12 12 3/4 1 3/4 -08 10 3/4 11 1/4 11 3/4 -12 12 3/4 -13 13 1/4 2 1/4 -09 11 1/4 11 3/4 12 1/4 -13 $13\ 1/4$ 13 3/4 -11 -14 2 3/4 -10 11 3/4 -11 12 1/4 -12 12 3/4 -14 13 3/4 -15 14 1/4 3 1/4 -11 12 1/4 -12 12 3/4 -13 13 1/4 -15 14 1/4 -16 14 3/4 3 3/4 -12 123/4 -13 13 1/4 13 3/4 14 3/4 -17 15 1/4 -14 -16 4 1/4 -13 13 1/4 -14 13 3/4 14 1/4 -17 15 1/4 15 3/4 -15 -18 4 3/4 -15 16 1/4 -14 13 3/4 14 1/4 14 3/4 -18 15 3/4 -19

5" x 5" Square Axle

	U-Bolts												
	7040 - See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below												
	Single Two Three Seven Eight												
Seat	Leaf		Leaf		Leaf		Leaf		Leaf				
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length			
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4			
1 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4			
1 3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4			
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4			
2 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4			
3 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4			
3 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4			
4 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4			
4 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4			

4" x 6" Rectangle Axle

	U-Bolts										
	7040 - See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below										
	Single		Two		Three		Seven		Eight		
Seat	Leaf		Leaf		Leaf		Leaf		Leaf		
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length	
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4	
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4	
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4	
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4	
2 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4	
3 1/4	-15	14 1/4	-16	14 3/4	-17	15 1/4	-19	16 1/4	-20	16 3/4	
3 3/4	-16	14 3/4	-17	15 1/4	-18	15 3/4	-20	16 3/4	-21	17 1/4	
4 1/4	-17	15 1/4	-18	15 3/4	-19	16 1/4	-21	17 1/4	-22	17 3/4	
4 3/4	-18	15 3/4	-19	16 1/4	-20	16 3/4	-22	17 3/4	-23	18 1/4	

Chart D - Bottom Plate

Axle Size	Part No.
5" Rd. w/ 7/8" Dia. U-Bolts	710-00
5" Rd. w/ 3/4" Dia. U-Bolts	16297-01
5" x 5" Square	7747-01
4" x 6" Rect.	7746-00

Chart K

	5" Round Axle											
	U-Bolts											
7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below 16300 – See Below, Opt. 3/4 Dia. x 3 Rd. x See Length Below												
	Single		Two		Three		Seven		Eight			
Seat	Leaf		Leaf Leaf Leaf				Leaf					
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length		
3/4	-06	9 3/4	-07	10 1/4	-08	10 3/4	-10	11 3/4	-11	12 1/4		
1 1/4	-07	10 1/4	-08	10 3/4	-09	11 1/4	-11	12 1/4	-12	12 3/4		
1 3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4		
2 1/4	-09	11 1/4	-10	11 3/4	-11	12 1/4	-13	13 1/4	-14	13 3/4		
				Ax	le Gro	oup						
Se	at			At	tach Fitti	ng						
Hei	ght	(w/ Std	. 7/8 Dia	a. U-Bol	ts) (w	/ Opt. 3	/4 Dia.	U-Bolts)	S	eat		
3/4 10775-00				16308-01			22215-01					
1 1/4 10775-00				16308-01			22215-02					
1 3/4 10775-00				16308-01			22215-03					
2 1	/4		10775-0	00		10	6308-01		222	15-04		

5" x 5" Square Axle

	5 X 5 Square Axie											
	U-Bolts											
7040 – See Below, Std. 7/8 Dia. x 3 Rd. x See Length Below												
	Single		Two		Three		Seven		Eight			
Seat	Leaf		Leaf		Leaf		Leaf		Leaf			
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length		
3/4	-08	10 3/4	-09	11 1/4	-10	11 3/4	-12	12 3/4	-13	13 1/4		
1 1/4	-09	09 11 1/4 -10 11 3/4 -11 12 1/4					-13	13 1/4	-14	13 3/4		
1 3/4	3/4 -10 11 3/4 -11			12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4		
2 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4		
				Ax	le Gro	oup						
	Seat H	eight		At	tach Fitt	ing		5	Seat			
	3/4	í			7738-01			22226-01				
1 1/4				7738-01			22226-02					
	1 3/	/4		7738-01			22226-03					
	2 1,	/4			7738-01			222	26-04			

4" x 6" Rectangle Axle

				'		<u> </u>														
				Ţ	J -Bol 1	ts														
	7040 -	- See B	elow, S	td. 7/8	B Dia. x	3 Rd.	x See I	ength	Below											
Seat	Single Leaf		Two Leaf		Three Leaf		Seven Leaf		Eight Leaf											
Height	Spring	Length	Spring*	Length	Spring**	Length	Spring	Length	Spring	Length										
3/4	-10	11 3/4	-11	12 1/4	-12	12 3/4	-14	13 3/4	-15	14 1/4										
1 1/4	-11	12 1/4	-12	12 3/4	-13	13 1/4	-15	14 1/4	-16	14 3/4										
1 3/4	-12	12 3/4	-13	13 1/4	-14	13 3/4	-16	14 3/4	-17	15 1/4										
2 1/4	-13	13 1/4	-14	13 3/4	-15	14 1/4	-17	15 1/4	-18	15 3/4										
Axle Group																				
Seat Height Radius Rod Attach Fitting Seat																				

	THE .	oroup		
Seat Height	Radius Rod	Attach Fitting	Seat	
3/4	16398-04	7738-00	22228-01	
1 1/4	16398-04	7738-00	22228-02	
1 3/4	16398-04	7738-00	22228-03	
2 1/4	16398-04	7738-00	22228-04	

^{*} When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs.

^{**} When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

H and CH-9700 US TWS 97", 109" and 121"

Bill of Materials

		Quantity Tandem	
Item	Part No.	Axle	Description
1	See Chart M, Page 28	2	Front Spring Hanger
2	See Chart M, Page 28	2	Front Beam Guide - Optional
3	See Chart M, Page 28	2	Center Rocker/Rocker Hanger Assembly
4	See Chart M, Page 28	2	Rear Beam Guide Att.
	See Chart M, Page 28	2	Rear Spring Hanger Assembly
6	719-02	8	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5"
7	715-00	1	Non-Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Curbside (RH) Only
8	10562-00	8	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & Oil
9	See Chart N, Page 28	8	U-Bolt - Standard 7/8" U-Bolt
10	See Chart L, Below	4	Spring Seat - 5" Round (Shown)
11	17350-02	4	Galvanized Liner 0
12	See Spring Appendix	4	Spring Assembly - Hi-Arch Only 2
13	706-01	4	Bottom Plate Att.
14	35-00	16	Washer - PL, 15/16 ID x 1 3/4 OD (For Std. 7/8" U-Bolt)
15	34-04	16	Hex Nut - 7/8" - 14 UNF (For Std. 7/8" U-Bolt)
16	16398-04	1	Adj. Radius Rod w/ Bushing - 19 1/4" LG, Front Roadside (LH) Only
		2	Rear Both Sides (LH and RH) When Using 5" Round Axles
	16398-17	2	Adj. Radius Rod w/ Bushing - 17 LG Adj. To 17 1/4, Rear Both Sides (LH and RH
			When Using 5" x 5" Square or 4" x 6" Rect. Axles
17	7717-01	2 per Hanger	Washer Bushing - Replaces Sideplate Washer 10561-00 on Fabricated (H)
	- 22.00		Front and Center Hangers Only
18	722-00	2 per Rad. Rod	Radius Rod Bushing Only - 3" LG
19	37-03	2 per Rocker 1 per Rear Hgr.	Hex Lock Nut – 5/8" - 18 UNF, GRB (Shipped loose, not part of center rocker & hanger assy. However it is part of the rear hanger assy.)
	756-00	2 per Rocker	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part of center
20	/ 30-00	1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
21	759-00	2 per Rocker	Hex Bolt – 5/8" - 18 UNF x 4 1/2 LG, GR2 (Shipped loose, not part of center
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 per Rear Hgr.	rocker & hanger assy. However it is part of the rear hanger assy.)
22	11154-00	1 per Rocker	Hex Lock Nut - 1 1/8" - 7 UNC, GR5
23	837-00	2 per Rocker	Washer - 1/8" x 1 1/4 OD x 2 1/4 OD
24	18723-01	1 per Rocker	Rocker Bushing Only - Rubber
25	16150-01	1 per Rocker	Hex Cap Screw - 1 1/8" x 7" x 6 5/8" LG, GR5
26	16168-09 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 97" Axle Spacing
	16168-10 or	2	Fabricated Rocker Assembly w/ Rubber Bushing, 109" Axle Spacing
	16168-13	2	Fabricated Rocker Assembly w/ Rubber Bushing, 121" Axle Spacing
27	16353-01	1 per Rocker	Rocker Replacement Bolt Kit Consisting of 1 ea. 16150-01, 2 ea. 837-00,
			1 ea. 11154-00, 2 ea. 759-00, 2 ea. 756-00 and 2 ea. 37-03

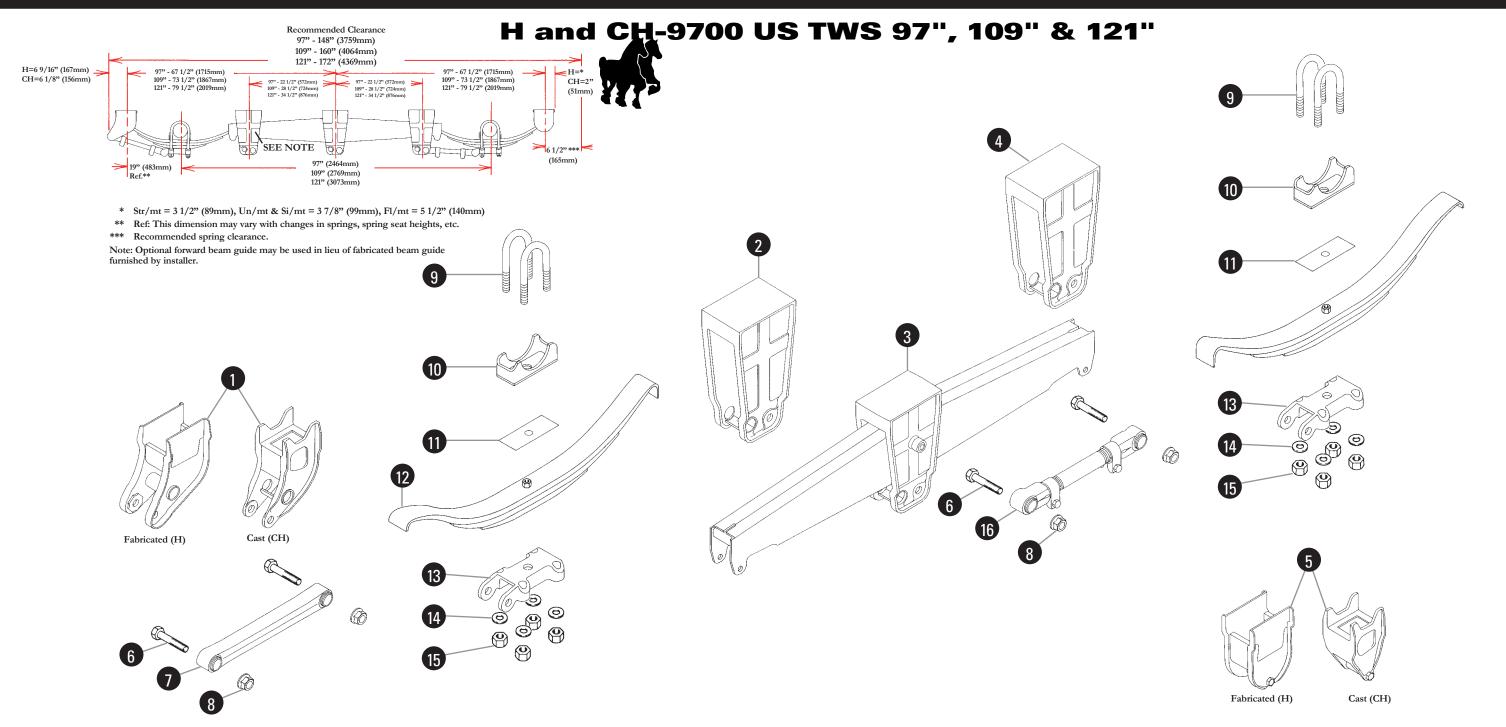
Chart L - Spring Seat

	<u> </u>
Seat Height	3/4"
5" Round	22215-01
5" x 5" Square	22226-01
4" x 6" Rect.	22228-01

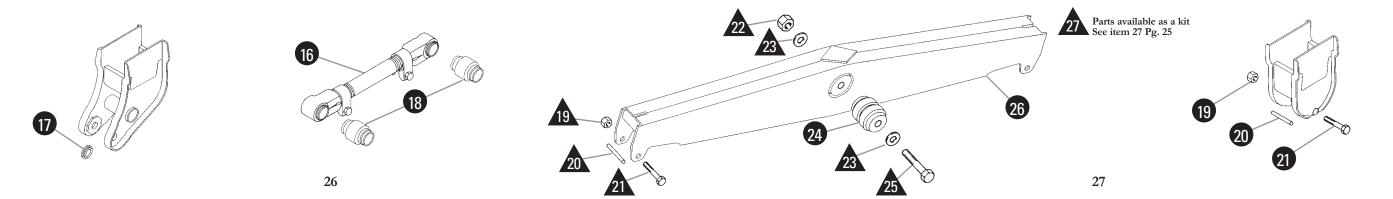
[•] Galvanized liners are required on the tension (top) side of each plate when taper (i.e., single, two and three leaf) springs are utilized. One spring liner per spring (for top leaf) will be shipped loose from Hutchens or spring vendor. Liners are not required on flat plate (seven or eight leaf springs).

② Spring usage in H and CH 9700 US TWS 97", 109" and 121" suspensions is limited to high arch only.





Replacement Parts



H and CH-9700 US TWS 97", 109" and 121"

Chart M - Hanger: For Overslung and Underslung (US) 97", 109" and 121"

t No. 701- 707-	Str/mt -01 702-01	Un/mt 20728-01 L 16291-03 R 16291-04	Un/mt (I-beam) 16481-01 NA	Si/mt NA	Fl/mt/wo NA	F1/mt/bo L-07 R-08
	702-01	L 16291-03			NA	L-07 R-08
707-			NA			E 0 / It 00
707-		D 1/20104	T AT F	NA	NA	L 702-11
707-		K 10291-04				R 702-12
	-13	-14	-14	NA	NA	NA
	NA	12834-05	NA	NA	NA	NA
	NA	12921-05	NA	NA	NA	NA
456-	-01	-03	-03	NA	NA	NA
680-	NA	L-01 R-02	L-01 R-02	NA	NA	NA
457-	-01	-03	-03	NA	NA	NA
681-	NA	L-01 R-02	L-01 R-02	NA	NA	NA
458-	-01	-03	-03	NA	NA	NA
682-	NA	L-01 R-02	L-01 R-02	NA	NA	NA
680-	NA	L-01 R-02	NA	NA	NA	NA
681-	NA	L-01 R-02	L-01 R-02	NA	NA	NA
682-	NA	L-01 R-02	NA	NA	NA	NA
1	6184-01	16185-01	16185-01	NA	NA	NA
	NA	16543-03	NA	NA	NA	NA
	NA	16542-03	NA	NA	NA	NA
707-	-13	-14	-14	NA	NA	NA
	NA	12834-05	NA	NA	NA	NA
	NA	12921-05	NA	NA	NA	NA
703-	-01	20732-01	16483-01	NA	NA	L-07 R-08
	712-01	L 16293-01	NA	NA	NA	L 712-11
		R 16293-02				R 712-12
0 2 0 0 0	456- 680- 457- 681- 458- 682- 680- 681- 682- 1	NA N	NA 12834-05 NA 12921-05 65601 -03 680- NA L-01 R-02 65701 -03 681- NA L-01 R-02 65801 -03 682- NA L-01 R-02 6580- NA L-01 R-02 6580- NA L-01 R-02 6581- NA L-01 R-02 6581- NA L-01 R-02 6581- NA L-01 R-02 6582- NA L-01 R-02 6582- NA L-01 R-02 6581- NA L-01 R-02 6582- NA L-01 R-02 6583- NA L	NA 12834-05 NA NA 12921-05 NA 65601 -03 -03 680- NA L-01 R-02 L-01 R-02 65701 -03 -03 681- NA L-01 R-02 L-01 R-02 65801 -03 -03 682- NA L-01 R-02 L-01 R-02 6582- NA L-01 R-02 L-01 R-02 6580- NA L-01 R-02 NA 6581- NA L-01 R-02 NA 6581- NA L-01 R-02 NA 6581- NA L-01 R-02 NA 6582- NA L-01 R-02 NA 6581- NA L-01 R-02 NA 6581- NA L-01 R-02 NA 6681- NA L-01 R-02 NA 676- 16184-01 16185-01 16185-01 NA 16543-03 NA NA 16542-03 NA 0713 -14 -14 NA 12834-05 NA NA 12921-05 NA 0301 20732-01 16483-01 712-01 L 16293-01 NA	NA 1283405 NA NA NA 12921-05 NA NA NA 12921-05 NA NA NA NA 12921-05 NA N	NA 12834-05 NA NA NA NA NA NA NA 12921-05 NA

Chart N - U-Bolt

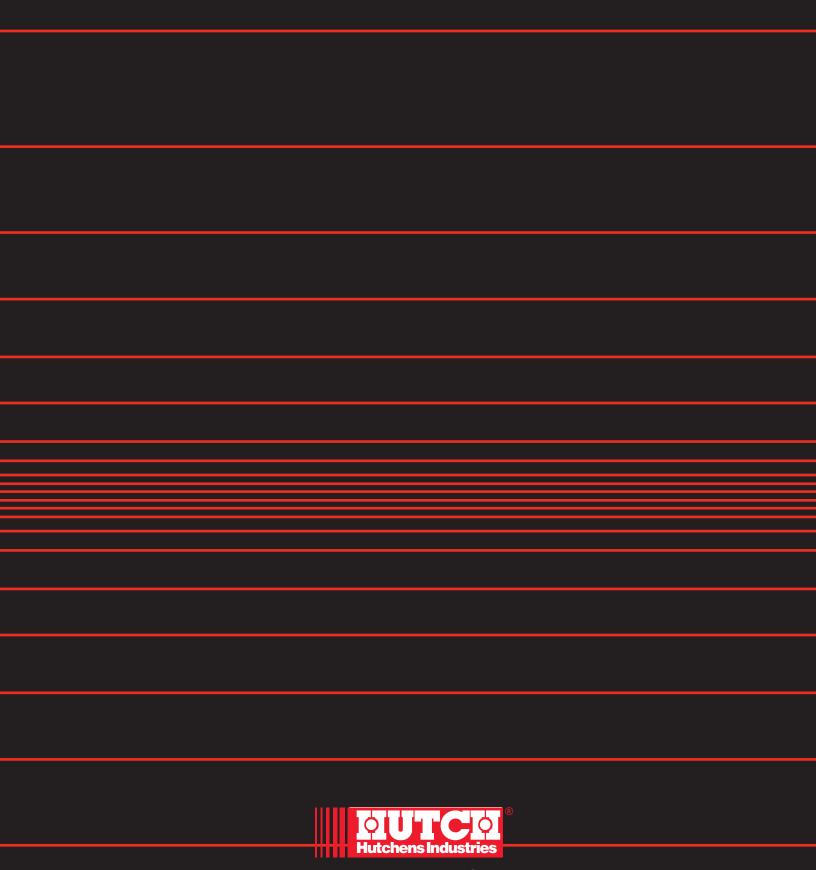
				5" F	Round A	\xle				
					U-Bolts					
			7816 – See	Below, Std. 7	7/8 Dia. x 5	Rd. x See Le	ength Below	7		
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring	Length	Spring*	Length	Spring	Length	Spring	Length
3/4	NA	NA	NA	NA	-10	11 3/4	-12	12 3/4	-13	13 1/4
				5" x 5	″ Squar	e Axle				
					U-Bolts					
			7840 – See	Below, Std.	7/8 Dia. x 5	Sq. x See Le	ength Below	,		
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring	Length	Spring*	Length	Spring	Length	Spring	Length
3/4	NA	NA	NA	NA	-06	11 3/4	-08	12 3/4	-09	13 1/4
				4" x 6"	Rectang	gle Axlo	е			
					U-Bolts					
			7040 – See	Below, Std. 7	7/8 Dia. x 3	Rd. x See Le	ength Below	7		
	Single		Two		Three		Seven		Eight	
Seat	Leaf		Leaf		Leaf		Leaf		Leaf	
Height	Spring	Length	Spring	Length	Spring*	Length	Spring	Length	Spring	Length
3/4	NA	NA	NA	NA	-10	11 3/4	-12	12 3/4	-13	13 1/4

 $^{^{\}ast}$ When using 365-00 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.

Numerical Listing of Parts

Part No.	Description	Pg. #	Part No.	Description	Pg. #
34-00	Hex Nut - Hi, 7/8" - 14 UNF	8, 12, 16, 20, 24, 28	7747-01	Bottom Plate - 5" x 5" Square	8, 16, 24
34-04	Hex Nut - 7/8" - 14 UNF	5, 9, 13, 17, 21, 25	7816-08	U-Bolt - 7/8 Dia. x 5" Round x 10 3/4 LG	12, 20
35-00	Washer - PL, 15/16 ID x 1 3/4 OD	5, 9, 13, 17, 21, 25	7816-09	U-Bolt - 7/8 Dia. x 5" Round x 11 1/4 LG	12, 20
37-03	Hex Locknut - 5/8" - 18 UNF	5, 9, 13, 17, 19, 25	7816-10	U-Bolt - 7/8 Dia. x 5" Round x 11 3/4 LG	12, 20, 28
324-01	Spring Assembly - 2 Leaf, High Arch	4, Spring Appendix	7816-11	U-Bolt - 7/8 Dia. x 5" Round x 12 1/4 LG	12, 20
325-01 326-01	Spring Assembly – 2 Leaf, Medium Arch Spring Assembly – 2 Leaf, Low Arch	4, Spring Appendix 4, Spring Appendix	7816-12 7816-13	U-Bolt - 7/8 Dia. x 5" Round x 12 3/4 LG U-Bolt - 7/8 Dia. x 5" Round x 13 1/4 LG	12, 20, 28 12, 20, 28
354-00	Spring Assembly – 2 Leaf, How Arch	4, Spring Appendix	7816-14	U-Bolt - 7/8 Dia. x 5" Round x 13 1/4 LG	12, 20
355-00	Spring Assembly – 3 Leaf, Medium Arch	4, Spring Appendix	7816-15	U-Bolt - 7/8 Dia. x 5" Round x 14 1/4 LG	12, 20
356-00	Spring Assembly - 3 Leaf, Low Arch	4, Spring Appendix	7816-16	U-Bolt - 7/8 Dia. x 5" Round x 14 3/4 LG	12, 20
363-00	Spring Assembly - 1 Leaf, Low Arch	4, Spring Appendix	7840-04	U-Bolt - 7/8 Dia. x 5" Square x 10 3/4 LG	12, 20
365-00	Spring Assembly - 3 Leaf, High Arch H.D.	4, Spring Appendix	7840-05	U-Bolt - 7/8 Dia. x 5" Square x 11 1/4 LG	12, 20
365-01	Spring Assembly - 3 Leaf, Low Arch H.D.	4, Spring Appendix	7840-06	U-Bolt - 7/8 Dia. x 5" Square x 11 3/4 LG	12, 20, 28
702-01	Front Spring Hanger - Cast, Str/mt	5, 9, 20, 28	7840-07	U-Bolt - 7/8 Dia. x 5" Square x 12 1/4 LG	12, 20
702-09	Front Spring Hanger - Cast, Fl/mt/wo, Left	5, 9, 20, 28	7840-08	U-Bolt - 7/8 Dia. x 5" Square x 12 3/4 LG	12, 20, 28
702-10 702-11	Front Spring Hanger - Cast, Fl/mt/wo, Right	5, 9, 20, 28	7840-09 7840-10	U-Bolt - 7/8 Dia. x 5" Square x 13 1/4 LG	12, 20, 28
702-11	Front Spring Hanger – Cast, Fl/mt/bo, Left Front Spring Hanger – Cast, Fl/mt/bo, Right	5, 9, 20, 28 5, 9, 20, 28	7840-11	U-Bolt - 7/8 Dia. x 5" Square x 13 3/4 LG U-Bolt - 7/8 Dia. x 5" Square x 14 1/4 LG	12, 20 12, 20
706-01	Bottom Plate - Att., Cast	9, 17, 25	7840-12	U-Bolt - 7/8 Dia. x 5" Square x 14 3/4 LG	12, 20
710-00	Bottom Plate - U-Bolt, 5" Round	8, 16, 24	10562-00	Flange Locknut - 1 - 14 UNS, GRF, Phosphate & G	
712-01	Rear Spring Hanger - Cast, Str/mt	5, 9, 20, 28	10775-00	Att., Assembly - Radius Rod, 5" Round	8, 16, 24
712-09	Rear Spring Hanger - Cast, Fl/mt/wo, Left	5, 9, 20, 28	11154-00	Hex Locknut - 1 1/8 - 7 UNC, GR5	5, 9, 13, 17, 21, 25
712-10	Rear Spring Hanger - Cast, Fl/mt/wo, Right	5, 9, 20, 28	11623-03	Cap Screw - 5/16" - 18 UNC, GR8	21
712-11	Rear Spring Hanger - Cast, Fl/mt/bo, Left	5, 9, 20, 28	11624-03	Hex Lock Nut - 5/16" - 18 UNC, GRC	21
712-12	Rear Spring Hanger - Cast, Fl/mt/bo, Right	5, 9, 20, 28	11664-01	Wear Pad - Rocker Guide - 1/4" x 2" x 10"	21
715-00	Non-Adj. Radius Rod w/ Bushing - 19 1/4 LG	5, 9, 13, 17, 21, 25	12834-05	Beam Guide - Cast, Un/mt, Widespread,	28
719-02 722-00	Radius Rod Bolt - Hex Bolt - 1 - 14 UNS x 5" Radius Rod Bushing - 3 LG	5, 9, 13, 17, 21, 25 5, 9, 13, 17, 21, 25	12921-05	US 97 & 109 Beam Guide - Cast, Un/mt, Widespread, US 121	28
751-01	Spring Assembly - 7 Leaf, Low Arch	4, Spring Appendix	16150-01	Hex Cap Screw - 1 1/8 x 7 x 6 5/8 LG, GR5	5, 9, 13, 17, 21, 25
751-05	Spring Assembly – 7 Leaf, High Arch	4, Spring Appendix	16168-03	Rocker Assembly - Fab. w/ Rubber Bushing, 67 A	
751-06	Spring Assembly - 7 Leaf, High Arch, Single Axle		16168-07	Rocker Assembly - Fab. w/ Rubber Bushing, 81 A	
752-01	Spring Assembly - 8 Leaf, Low Arch H.D.	4, Spring Appendix	16168-09	Rocker Assembly - Fab. w/ Rubber Bushing, 97 A	A/C 21, 25
752-05	Spring Assembly - 8 Leaf, High Arch H.D.	4, Spring Appendix	16168-10	Rocker Assembly - Fab. w/ Rubber Bushing, 109	A/C 21, 25
752-06	Spring Assembly - 8 Leaf, High Arch H.D.	4, Spring Appendix	16168-13	Rocker Assembly - Fab. w/ Rubber Bushing, 121	
	Single Axle & Widespread		16180-01	Rocker Hanger - Cast, Str/mt, 54.5 - 81 A/C	5, 9, 20
756-00	Sleeve Spacer - 3/4 OD x 18 GA x 3 1/4"	5, 9, 13, 17, 21, 25	16181-01	Rocker Hanger - Cast, Un/mt & Si/mt, 54.5 - 81 A	
759-00 817-00	Hex Bolt - 5/8" - 18 UNF x 4 1/2", GR2	5, 9, 13, 17, 21, 25	16183-03 16183-04	Rocker Hanger - Cast, Fl/mt/bo, Left, 54.5 - 81 A	
837-00	Washer - 1/8" x 13/16 ID x 1 1/2 OD Washer - 1/8" x 1 1/4 ID x 2 1/4 OD	5, 13, 21 5, 9, 13, 17, 21, 25	16183-05	Rocker Hanger – Cast, Fl/mt/bo, Right, 54.5 - 81 A Rocker Hanger – Cast, Fl/mt/wo, Left, 54.5 - 81 A	
6786-00	U-Bolt Clamp - 4" x 6" Axle, Cast	9, 17	16183-06	Rocker Hanger - Cast, Fl/mt/wo, Right, 54.5 - 81	
7040-06	U-Bolt - 7/8 Dia. x 3" Round x 9 3/4 LG	8, 16, 24	16184-01	Rocker Hanger - Fab., Str/mt, 97 - 121 A/C	28
7040-07	U-Bolt - 7/8 Dia. x 3" Round x 10 1/4 LG	8, 16, 24	16185-01	Rocker Hanger - Fab., Un/mt, 97 - 121 A/C	28
7040-08	U-Bolt - 7/8 Dia. x 3" Round x 10 3/4 LG	8, 12, 16, 20, 24	16291-03	Front Spring Hanger - Cast, Un/mt & Si/mt, Left	5, 9, 20, 28
7040-09	U-Bolt - 7/8 Dia. x 3" Round x 11 1/4 LG	8, 12, 16, 20, 24	16291-04	Front Spring Hanger - Cast, Un/mt & Si/mt, Right	t 5, 9, 20, 28
7040-10	U-Bolt - 7/8 Dia. x 3" Round x 11 3/4 LG	8, 12, 16, 20, 24, 28	16293-01	Rear Spring Hanger - Cast, Un/mt & Si/mt, Left	5, 9, 20, 28
7040-11	U-Bolt - 7/8 Dia. x 3" Round x 12 1/4 LG	8, 12, 16, 20, 24	16293-02	Rear Spring Hanger - Cast, Un/mt & Si/mt, Right	
7040-12	U-Bolt - 7/8 Dia. x 3" Round x 12 3/4 LG	8, 12, 16, 20, 24, 28	16297-01	Bottom Plate - 5" Round, 3/4 Dia. U-Bolt	8, 16, 24
7040-13 7040-14	U-Bolt - 7/8 Dia. x 3" Round x 13 1/4 LG U-Bolt - 7/8 Dia. x 3" Round x 13 3/4 LG	8, 12, 16, 20, 24, 28 8, 12, 16, 20, 24	16300-06	U-Bolt - 3/4 Dia. x 3" Round x 9 3/4 LG U-Bolt - 3/4 Dia. x 3" Round x 10 1/4 LG	8, 16, 24 8, 16, 24
7040-14	U-Bolt = 7/8 Dia. x 3" Round x 14 1/4 LG	8, 12, 16, 20, 24	16300-07	U-Bolt - 3/4 Dia. x 3" Round x 10 1/4 LG U-Bolt - 3/4 Dia. x 3" Round x 10 3/4 LG	8, 16, 24
7040-16	U-Bolt - 7/8 Dia. x 3" Round x 14 3/4 LG	8, 12, 16, 20, 24	16300-09	U-Bolt - 3/4 Dia. x 3" Round x 11 1/4 LG	8, 16, 24
7040-17	U-Bolt - 7/8 Dia. x 3" Round x 15 1/4 LG	8, 16, 24	16300-10	U-Bolt - 3/4 Dia. x 3" Round x 11 3/4 LG	8, 16, 24
7040-18	U-Bolt - 7/8 Dia. x 3" Round x 15 3/4 LG	8, 16, 24	16300-11	U-Bolt - 3/4 Dia. x 3" Round x 12 1/4 LG	8, 16, 24
7040-19	U-Bolt - 7/8 Dia. x 3" Round x 16 1/4 LG	8, 16, 24	16300-12	U-Bolt - 3/4 Dia. x 3" Round x 12 3/4 LG	8, 16, 24
7040-20	U-Bolt - 7/8 Dia. x 3" Round x 16 3/4 LG	8, 16, 24	16300-13	U-Bolt - 3/4 Dia. x 3" Round x 13 1/4 LG	8, 16, 24
7040-21	U-Bolt - 7/8 Dia. x 3" Round x 17 1/4 LG	8, 16, 24	16300-14	U-Bolt - 3/4 Dia. x 3" Round x 13 3/4 LG	8, 16, 24
7040-22	U-Bolt - 7/8 Dia. x 3" Round x 17 3/4 LG	8, 16, 24	16300-15	U-Bolt - 3/4 Dia. x 3" Round x 14 1/4 LG	8, 16, 24
7040-23 7701-01	U-Bolt - 7/8 Dia. x 3" Round x 18 1/4 LG Front Spring Hanger - Str/mt	8, 16, 24 5, 9, 20, 28	16300-16 16300-17	U-Bolt - 3/4 Dia. x 3" Round x 14 3/4 LG	8, 16, 24 8, 16, 24
7701-01 7701-05	Front Spring Hanger - Str/mt Front Spring Hanger - Fl/mt/wo, Left	5, 9, 20, 28 5, 9, 20, 28	16300-17 16300-18	U-Bolt - 3/4 Dia. x 3" Round x 15 1/4 LG U-Bolt - 3/4 Dia. x 3" Round x 15 3/4 LG	8, 16, 24 8, 16, 24
7701-05	Front Spring Hanger - Fl/mt/wo, Right	5, 9, 20, 28	16300-19	U-Bolt - 3/4 Dia. x 3" Round x 16 1/4 LG	8, 16, 24
7701-07	Front Spring Hanger - Fl/mt/bo, Left	5, 9, 20, 28	16303-01	Hex Nut - 3/4 - 16 UNF, GR8	5, 13, 21
7701-08	Front Spring Hanger - Fl/mt/bo, Right	5, 9, 20, 28	16308-01	No-Hop Att. Assy 5" Round, 3/4 Dia. U-Bolt	8, 16, 24
7703-01	Rear Spring Hanger - Str/mt	5, 9, 20, 28	16316-01	Spring Assembly - FRP, Low Arch H.D.	4, Spring Appendix
7703-05	Rear Spring Hanger - Fl/mt/wo, Left	5, 9, 20, 28	16353-01	Rocker Replacement Bolt Kit	5, 9, 13, 17, 21, 25
7703-06	Rear Spring Hanger - Fl/mt/wo, Right	5, 9, 20, 28	16398-04	Adj. Radius Rod w/ Bushing &	5, 9, 13, 17, 21, 25
7703-07	Rear Spring Hanger - Fl/mt/bo, Left	5, 9, 20, 28	1/20	NEVER-SEEZ - 19 1/4 LG	
7703-08	Rear Spring Hanger - Fl/mt/bo, Right	5, 9, 20, 28	16398-05	Adj. Radius Rod w/ Bushing &	5, 9
7707-13	Beam Guide - Str/mt, Widespread, Att.	28	16209.07	NEVER-SEEZ - 20 1/4 LG	500
7707-14 7717-01	Beam Guide - Un/mt, Widespread, Att. Washer Bushing	28 5, 9, 13, 17, 21, 25	16398-07	Adj. Radius Rod w/ Bushing & NEVER-SEEZ - 22 1/4 LG	5, 8, 9
7738-00	Att. Fitting - Radius Rod, 4" x 6" Rect.	8, 16, 24	16398-08	Adj. Radius Rod w/ Bushing &	8, 13, 17
7738-01	Att. Fitting - Radius Rod, 5" x 5" Square	8, 16, 24	200,000	NEVER-SEEZ - 23 1/2 LG	-, -0, -/
7746-00	Bottom Plate - 4" x 6" Rect.	8, 16, 24	16398-09	Adj. Radius Rod w/ Bushing &	16
				NEVER-SEEZ - 25 LG	
			20		

Part No.	Description	Pg. #	Part No.	Description	Pg. #
16398-10	Adj. Radius Rod w/ Bushing &	13, 17	16681-01	Rocker & Hanger Assy Un/mt, Left, US 109 A/C	28
	NEVER-SEEZ - 26 1/2 LG		16681-02	Rocker & Hanger Assy Un/mt, Right, US 109 A/	C 28
16398-11	Adj. Radius Rod w/ Bushing &	16	16682-01	Rocker & Hanger Assy Un/mt, Left, US 121 A/C	28
	NEVER-SEEZ - 28 LG		16682-02	Rocker & Hanger Assy Un/mt, Right, US 121 A/	C 28
16398-12	Adj. Radius Rod w/ Bushing &	13, 17	16710-01	Spring Assembly - 2 Leaf, 2 Stage, Medium Arch	4, Spring Appendix
	NEVER-SEEZ - 29 1/4 LG		16868-01	Top Plate - Roll Formed	5, 13, 21
16398-13	Adj. Radius Rod w/ Bushing &	16	17160-01	Rocker & Hanger Assy Str/mt, Left, 53.5/54.5 A/	
	NEVER-SEEZ - 30 3/4 LG		17160-02	Rocker & Hanger Assy Str/mt, Right, 53.5/54.5	
16398-14	Adj. Radius Rod w/ Bushing &	13, 17	17160-03	Rocker & Hanger Assy Un/mt, Left, 53.5/54.5 A	
	NEVER-SEEZ - 33 1/2 LG		17160-04	Rocker & Hanger Assy Un/mt, Right, 53.5/54.5	
16398-15	Adj. Radius Rod w/ Bushing &	16	17160-07	Rocker & Hanger Assy Fl/mt/bo, Left, 53.5/54.5	
	NEVER-SEEZ - 34 3/4 LG		17160-08	Rocker & Hanger Assy Fl/mt/bo, Right, 53.5/54.	
16398-17	Adj. Radius Rod w/ Bushing &	21, 25	17160-09	Rocker & Hanger Assy Fl/mt/wo, Left, 53.5/54.5	
	NEVER-SEEZ - 17 LG		17160-10	Rocker & Hanger Assy Fl/mt/wo, Right, 53.5/54	
16450-01	Rocker & Hanger Assy Str/mt, Left, 57.5 A/C	5, 9	17350-02	Galvanized Liner05 x 3 x 7 1/2 w/ Hole	5, 9, 13, 17, 21, 25
16450-02	Rocker & Hanger Assy. – Str/mt, Right, 57.5 A/C	5, 9	17882-01	Spring Assembly - 2 Leaf, 2 Stage, Medium Arch	4, Spring Appendix
16450-03	Rocker & Hanger Assy Un/mt, Left, 57.5 A/C	5, 9	10722.01	Multi Axle & Widespread	5 0 12 17 21 25
16450-04	Rocker & Hanger Assy Un/mt, Right, 57.5 A/C	5, 9	18723-01	Rocker Bushing Assembly - Rubber	5, 9, 13, 17, 21, 25
16450-07	Rocker & Hanger Assy Fl/mt/bo, Left, 57.5 A/C	5, 9	19360-01	Spring Seat - Att., 5" Round, 3/4 High	5, 13, 21
16450-08	Rocker & Hanger Assy. – Fl/mt/bo, Right, 57.5 A/C	5, 9	19360-02	Spring Seat - Att., 5" Round, 1 1/4 High	5, 13, 21
16450-09	Rocker & Hanger Assy. – Fl/mt/wo, Left, 57.5 A/C	5, 9	19360-03	Spring Seat - Att., 5" Round, 1 3/4 High	5, 13, 21
16450-10	Rocker & Hanger Assy. – Fl/mt/wo, Right, 57.5 A/C	5, 9	19360-04 19360-05	Spring Seat - Att., 5" Round, 2 1/4 High	5, 13, 21
16451-01	Rocker & Hanger Assy Str/mt, Left, 61 A/C	20		Spring Seat - Att., 5" Round, 2 3/4 High	5, 13, 21
16451-02	Rocker & Hanger Assy Str/mt, Right, 61 A/C	20	19360-06 19360-07	Spring Seat – Att., 5" Round, 3 1/4 High Spring Seat – Att., 5" Round, 3 3/4 High	5, 13, 21
16451-03	Rocker & Hanger Assy Un/mt & Si/mt, Left, 61 A/C	20	19360-07	Spring Seat - Att., 5" Round, 4 1/4 High	5, 13, 21 5, 13, 21
16451-04 16451-07	Rocker & Hanger Assy Un/mt & Si/mt, Right, 61 A/C Rocker & Hanger Assy Fl/mt/bo, Left, 61 A/C	20 20	19360-08	Spring Seat - Att., 5" Round, 4 1/4 High	5, 13, 21
16451-07	Rocker & Hanger Assy Fl/mt/bo, Right, 61 A/C	20	19364-01	Spring Seat - Att., 4" x 6" Rect., 3/4 High	5, 13, 21
16451-08	Rocker & Hanger Assy Fl/mt/bo, Right, 61 A/C Rocker & Hanger Assy Fl/mt/wo, Left, 61 A/C	20	19364-02	Spring Seat - Att., 4" x 6" Rect., 3/4 High	5, 13, 21
16451-10	Rocker & Hanger Assy Fl/mt/wo, Right, 61 A/C	20	19364-03	Spring Seat - Att., 4" x 6" Rect., 1 1/4 High	5, 13, 21
16452-01	Rocker & Hanger Assy Str/mt, Left, 67 A/C	20	19364-04	Spring Seat - Att., 4" x 6" Rect., 2 1/4 High	5, 13, 21
16452-02	Rocker & Hanger Assy. – Str/mt, Right, 67 A/C	20	19364-05	Spring Seat - Att., 4" x 6" Rect., 2 3/4 High	5, 13, 21
16452-03	Rocker & Hanger Assy Un/mt & Si/mt, Left, 67 A/C	20	19364-06	Spring Seat - Att., 4" x 6" Rect., 3 1/4 High	5, 13, 21
16452-04	Rocker & Hanger Assy. – Un/mt & Si/mt, Right, 67 A/C	20	19364-07	Spring Seat - Att., 4" x 6" Rect., 3 3/4 High	5, 13, 21
16452-07	Rocker & Hanger Assy Fl/mt/bo, Left, 67 A/C	20	19364-08	Spring Seat - Att., 4" x 6" Rect., 4 1/4 High	5, 13, 21
16452-08	Rocker & Hanger Assy Fl/mt/bo, Right, 67 A/C	20	19364-09	Spring Seat - Att., 4" x 6" Rect., 4 3/4 High	5, 13, 21
16452-09	Rocker & Hanger Assy Fl/mt/wo, Left, 67 A/C	20	19365-01	Spring Seat - Att., 5" x 5" Square, 3/4 High	5, 13, 21
16452-10	Rocker & Hanger Assy Fl/mt/wo, Right, 67 A/C	20	19365-02	Spring Seat - Att., 5" x 5" Square, 1 1/4 High	5, 13, 21
16453-01	Rocker & Hanger Assy Str/mt, Left, 73 A/C	20	19365-03	Spring Seat - Att., 5" x 5" Square, 1 3/4 High	5, 13, 21
16453-02	Rocker & Hanger Assy Str/mt, Right, 73 A/C	20	19365-04	Spring Seat - Att., 5" x 5" Square, 2 1/4 High	5, 13, 21
16453-03	Rocker & Hanger Assy Un/mt & Si/mt, Left, 73 A/C	20	19365-05	Spring Seat - Att., 5" x 5" Square, 2 3/4 High	5, 13, 21
16453-04	Rocker & Hanger Assy Un/mt & Si/mt, Right, 73 A/C	20	19365-06	Spring Seat - Att., 5" x 5" Square, 3 1/4 High	5, 13, 21
16453-07	Rocker & Hanger Assy Fl/mt/bo, Left, 73 A/C	20	19365-07	Spring Seat - Att., 5" x 5" Square, 3 3/4 High	5, 13, 21
16453-08	Rocker & Hanger Assy Fl/mt/bo, Right, 73 A/C	20	19365-08	Spring Seat - Att., 5" x 5" Square, 4 1/4 High	5, 13, 21
16453-09	Rocker & Hanger Assy Fl/mt/wo, Left, 73 A/C	20	19365-09	Spring Seat - Att., 5" x 5" Square, 4 3/4 High	5, 13, 21
16453-10	Rocker & Hanger Assy Fl/mt/wo, Right, 73 A/C	20	20728-01	Front Spring Hanger - Un/mt	5, 9, 20, 28
16454-01	Rocker & Hanger Assy Str/mt, Left, 81 A/C	20	20729-01	Front Spring Hanger - Si/mt, Left	5, 9, 20, 28
16454-02	Rocker & Hanger Assy Str/mt, Right, 81 A/C	20	20730-01	Front Spring Hanger - Si/mt, Right	5, 9, 20, 28
16454-03	Rocker & Hanger Assy Un/mt & Si/mt, Left, 81 A/C	20	20732-01	Rear Spring Hanger - Un/mt	5, 9, 20, 28
16454-04	Rocker & Hanger Assy Un/mt & Si/mt, Right, 81 A/C	20	20733-01	Rear Spring Hanger - Si/mt, Left	5, 9, 20, 28
16454-07	Rocker & Hanger Assy Fl/mt/bo, Left, 81 A/C	20	20734-01	Rear Spring Hanger - Si/mt, Right	5, 9, 20, 28
16454-08	Rocker & Hanger Assy Fl/mt/bo, Right, 81 A/C	20	21833-01	Rocker Assembly - Fab. w/Rubber Bushing, 57.5 A	L/C 5, 9
16454-09	Rocker & Hanger Assy Fl/mt/wo, Left, 81 A/C	20	21834-01	Rocker Assembly - Fab. w/Rubber Bushing, 61 A/	C 13, 17
16454-10	Rocker & Hanger Assy Fl/mt/wo, Right, 81 A/C	20	21835-01	Rocker Assembly - Fab. w/Rubber Busing, 73 A/C	13, 17
16456-01	Rocker & Hanger Assy Fab., Str/mt, 97 A/C	28	22215-01	Spring Seat - 5" Round, 3/4 High	8, 12, 16, 20, 24, 25
16456-03	Rocker & Hanger Assy Fab., Un/mt, 97 A/C	28	22215-02	Spring Seat - 5" Round, 1 1/4 High	8, 12, 16, 20, 24
16457-01	Rocker & Hanger Assy Fab., Str/mt, 109 A/C	28	22215-03	Spring Seat - 5" Round, 1 3/4 High	8, 12, 16, 20, 24
16457-03	Rocker & Hanger Assy Fab., Un/mt, 109 A/C	28	22215-04	Spring Seat - 5" Round, 2 1/4 High	8, 12, 16, 20, 24
16458-01	Rocker & Hanger Assy Fab., Str/mt, 121 A/C	28	22226-01	Spring Seat - 5" x 5" Square, 3/4 High	8, 12, 16, 20, 24, 25
16458-03	Rocker & Hanger Assy Fab., Un/mt, 121 A/C	28	22226-02	Spring Seat - 5" x 5" Square, 1 1/4 High	8, 12, 16, 20, 24
16481-01		, 9, 20, 28	22226-03	Spring Seat - 5" x 5" Square, 1 3/4 High	8, 12, 16, 20, 24
16483-01		, 9, 20, 28	22226-04	Spring Seat - 5" x 5" Square, 2 1/4 High	8, 12, 16, 20, 24
16542-03	Rocker Hanger - Cast, Un/mt, US 121 A/C	28	22228-01	Spring Seat - 4" x 6" Rect., 3/4 High	8, 12, 16, 20, 24, 25
16543-03	Rocker Hanger - Cast, Un/mt, US 97 & 109 A/C	28	22228-02	Spring Seat - 4" x 6" Rect., 1 1/4 High	8, 12, 16, 20, 24
16680-01	Rocker & Hanger Assy Un/mt, Left, US 97 A/C	28	22228-03	Spring Seat - 4" x 6" Rect., 1 3/4 High	8, 12, 16, 20, 24
16680-02	Rocker & Hanger Assy Un/mt, Right, US 97 A/C	28	22228-04	Spring Seat - 4" x 6" Rect., 2 1/4 High	8, 12, 16, 20, 24
			24820-01	Rocker Assembly - Fab. w/Rubber Bushing, 54.5 A	L/C 5, 9



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