



**Trailer Suspension Series** 

# Configurations & Parts Identification

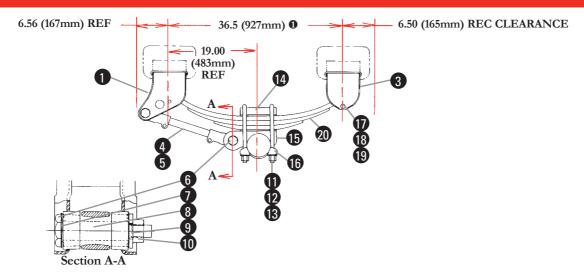


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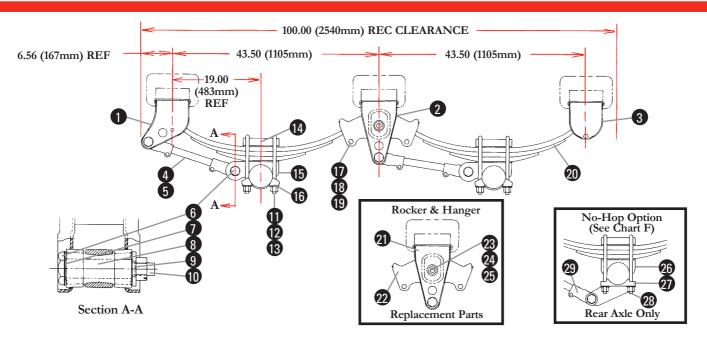
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# **Single Axle**

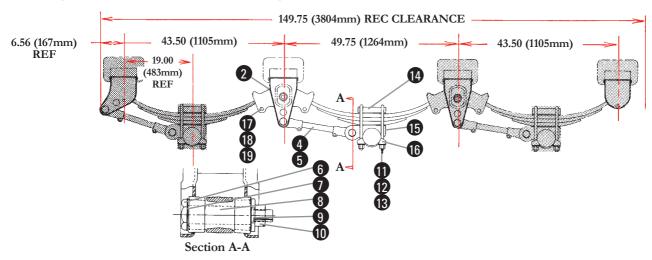


# Tandem Axle - 49" Axle Centers (1245mm)



# **Multi-Axle Conversion Kit**

#### One Required for Each Axle Beyond a Tandem





# Bill of Materials: 49" (1245mm)

			Quantity		
Item	Part No.	Single Axle	Tandem Axle	MAC@	Description
1	See Chart A	2	2	0	Front Spring Hanger
2	See Chart A	0	2	2	Center Rocker and Hanger Assembly (Hucked)
3	See Chart A	2	2	0	Rear Spring Hanger Assembly
4	16167-04	1	2	1	Torque Arm Assembly – Adj., 19.25 LG
5	11953-01	1	2	1	Radius Rod – 7600, Non-Adj., Fin
6	12709-01	4	8	4	Step Bolt – 1 1/4 x 7/8 - 14 UNF x 6.06, GR 5
7	12710-01	4	8	4	Washer – .060 x 1.31 ID x 2.25 OD
8	7620-00	8	16	8	Bushing
9	12711-01	4	8	4	Plain Washer – .229 x .94 ID x 2.25 OD
10	34-02	4	8	4	Hex Locknut – 7/8 - 14 UNF, GRADE B
11	See Chart B	4	8	4	U-Bolt – 7/8 Dia. x 3 RD x See Chart
12	35-00	8	16	8	Washer – PL, 15/16 ID x 1 3/4 OD
13	34-04	8	16	8	Hex Nut – 7/8 - 14 UNF - 2B, GR 5
14	16868-01	2	4	2	Top Plate – Roll Formed
15	See Chart C	2	4	2	Spring Seat – 5 Round (Shown)
16	See Chart D6	2	4	2	Bottom Plate – 5 Round (Shown)
17	759-00		2 per Rocker		Hex Bolt – 5/8 - 18 UNF x 4 1/2 LG, GR 2 (Shipped loose, not part of
			1 per Rear Hgr.		center rocker & hanger assy. However it is part of the rear hanger assy.)
18	756-00		2 per Rocker		Sleeve Spacer – 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part
			1 per Rear Hgr.		of center rocker & hanger assy. However it is part of the rear hanger assy.)
19	37-03		2 per Rocker		Hex Locknut – 5/8 - 18 UNF, GR B (Shipped loose, not part of center
			1 per Rear Hgr.		rocker & hanger assy. However it is part of the rear hanger assy.)
20 <b>Se</b>	e Spring Append	lix 2	4	2	Spring Assembly
21	See Chart A	0	2	2	Center Rocker Hanger
22	16158-01 or	0	2	2	Fabricated Rocker Assembly w/ Rubber Bushing
	17784-01	0	2	2	Cast Rocker Assembly w/ Rubber Bushing
23	16150-01		1 per Rocker		Hex Cap Screw – 1.125 - 7 UNC x 6.62 LG, GR 5
24	837-00		2 per Rocker		Washer – 1/8 x 1 1/4 OD x 2 1/4 OD
25	11154-00		1 per Rocker		Hex Locknut – 1 1/8 - 7 UNC, GR 5
26	See Chart F	0	2	2	Spring Seat – Replaces Spring Seats On Rear Axle
27	See Chart F	0	2	2	Attach Fitting – Replaces Bottom Plates On Rear Axle
28	See Chart F	0	4	4	U-Bolt – Replaces U-Bolts On Rear Axle
29	16167-06	0	2	2	Adj. Radius Rod – 21 LG - Replaces 1 Adj. and 1 Non-Adj. Radius
					Rod on Rear Axle

# Chart A - Hanger: Fabricated (H) and Cast (CH) Hangers

					Hanger Configuration		
Description	Part No.	Str/mt	Un/mt	Un/mt (I-bear	m) Si/mt	Fl/mt/wo	Fl/mt/bo
Front Hgr., Fab. (H)	7601-	- 01	20725-01	16482-01	L 20726-01 R 20727-01	L-03 R-04	L-07 R-08
Front Hgr., Cast (CH)	7655-	- 00	L-03 R-04	NA	L-03 R-04	L-05 R-06	L-07 R-08
Rocker & Hgr. Assy., Fab. (H)	16321-	- 01	- 02	- 02	- 04	- 08	- 07
Rocker & Hgr. Assy., Cast (CH)	16321-	- 51	- 52	- 52	- 52	- 58	- 57
Rocker Hgr. Only, Fab. (H)		16187-01	16188-01	16188-01	16190-01	16192-01	16191-01
Rocker Hgr. Only, Cast (CH)		16200-03	16201-03	16201-03	16201-03	16202-05	16202-03
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

#### **Notes:**

- When using 751-06, 752-01, 752-06 and 16316-01 springs, this hanger spacing should be 38" (965mm).
- ② A tri-axle suspension consists of a tandem axle plus a multi-axle conversion kit (MAC). Many such combinations are possible.
- ② An optional cast bottom plate is available for use with 5" round axles. See Chart D.

#### Chart E - Intermediate Widespread Rocker Hangers and Rocker Hanger Assemblies

		Hanger Configuration					
Axle Centers	Description	Str/mt	Un/mt, Un/mt (I-beam)	Si/mt			
54.5"	Rocker Hanger Only (CH)	16193-01	16194-03	16194-03			
	Rocker (H) & Hanger (CH) Assy.	L 17182-01 R 17182-02	L 17182-03 R 17182-04	NA			
60"	Rocker Hanger Only (CH)	16193-01	16194-03	16194-03			
	Rocker (H) & Hanger (CH) Assy.	L 16460-01 R 16460-02	L 16460-03 R 16460-04	NA			
72"	Rocker Hanger Only (CH)	16193-01	16194-03	16194-03			
	Rocker (H) & Hanger (CH) Assy.	L 16461-01 R 16461-02	L 16461-03 R 16461-04	NA			

#### Chart B - U-Bolt

	5" Round Axle									
				Ţ	J <b>-Bol</b> t	ts				
	704	10 – See	Below	, 7/8 I	)ia. x 3	Rd. x S	See Lei	ngth Be	low	
	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
4 3/4	-14	13 3/4	-15	14 1/4	-16	14 3/4	-18	15 3/4	-19	16 1/4

## 5" x 5" Square Axle

				J	J <b>-Bol</b> t	ts				
	704	0 – See	Below	, 7/8 I	)ia. x 3	Rd. x S	See Lei	ngth Be	low	
	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" Rectangular Axle

U-Bolts

				•	J- <b>D</b> 01	ıo				
	7040 - See Below, 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 C - Spring Seat**

Seat Height	5" Rd. Axle	5" x 5" Sq. Axle	4" x 6" Rect. Axle
3/4	19361-01	19362-01	19363-01
1 1/4	19361-02	19362-02	19363-02
1 3/4	19361-03	19362-03	19363-03
2 1/4	19361-04	19362-04	19363-04
2 3/4	19361-05	19362-05	19363-05
3 1/4	19361-06	19362-06	19363-06
3 3/4	19361-07	19362-07	19363-07
4 1/4	19361-08	19362-08	19363-08
4 3/4	19361-09	19362-09	19363-09

#### **Chart D - Bottom Plate**

Axle Configuration	Part No.
5" Round	710-00 or 7622-00***
5" x 5" Square	7747-01
4" x 6" Rect.	7746-00

## **Chart F - No-Hop Option**

# 5" Round and 5" x 5" Square Axles

	U-Bolts									
	7040 – See Below, 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

		Axle Grou	ıp		
Seat	Attach	Fitting	Se	eat	
Height	5" Round	5" x 5" Sq.	5" Round	5" x 5" Sq.	
3/4	7619-00	7621-00	22215-01	22226-01	_
1 1/4	7619-00	7621-00	22215-02	22226-02	
1 3/4	7619-00	7621-00	22215-03	22226-03	_
2 1/4	7619-00	7621-00	22215-04	22226-04	_

#### 4" x 6" Rectangular Axle

				J	J <b>-Bolt</b>	S				
	704	0 – See	Below	, 7/8 I	)ia. x 3	Rd. x S	See Ler	igth Be	low	
	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									

	Axie Gloup	
Seat Height	Attach Fitting	Seat
3/4	7660-00	22228-01
1 1/4	7660-00	22228-02
1 3/4	7660-00	22228-03
2 1/4	7660-00	22228-04

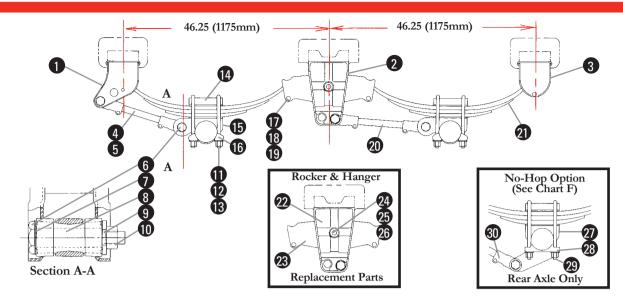
#### Chart G - Radius Rod

Axle Centers	Front Axle	Center & Rear Axles	No-Hop (Rear Axle Only)
54.5"	16167-04	16167-05	16167-07
60"	16167-04	16167-08	16167-09
72"	16167-04	16167-12	16167-13

<sup>\*</sup> When using the 16710-01 2-stage spring, use the same length U-bolt as used with 365-00 and 365-01 springs.

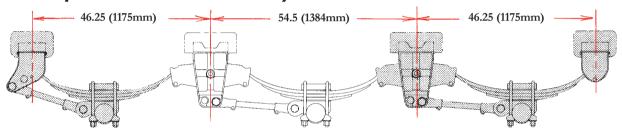
<sup>\*\*</sup> When using 365-00, 365-01 springs or 34-00 Hi-nuts, use 1/2" longer U-bolts.
\*\*\* Optional cast bottom plate. Use 1" longer U-bolts.

# 9600 Tandem Widespread 54.5" (1384mm)

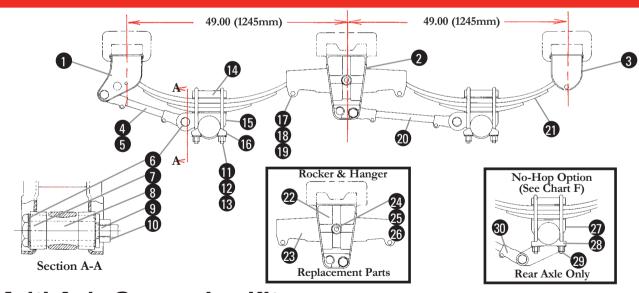


#### **Multi Axle Conversion Kit**

### One Required for Each Axle Beyond a Tandem

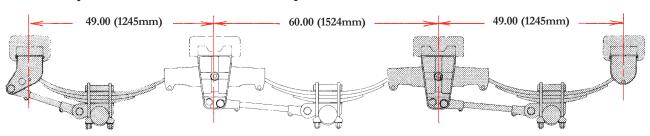


# 9600 Tandem Widespread 60" (1524mm)



#### **Multi Axle Conversion Kit**

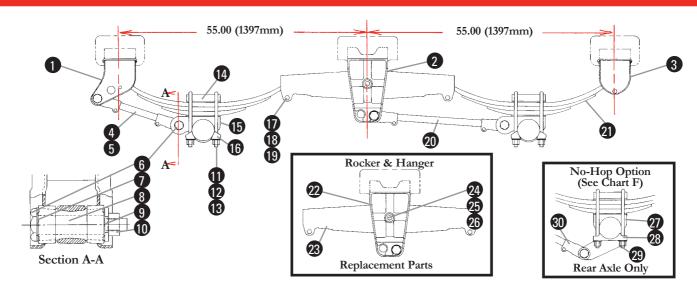
#### One Required for Each Axle Beyond a Tandem



# Bill of Materials: 54.5" (1384mm), 60" (1524mm) and 72" (1829mm)

		Quar	tity	
Iten	n Part No.	Tandem Axle	MAC@	Description
1	See Chart A	2	0	Front Spring Hanger
2	See Chart E	2	2	Center Rocker and Hanger Assembly (Hucked)
3	See Chart A	2	0	Rear Spring Hanger Assembly
4	16167-04	1	0	Torque Arm Assembly – Adj., 19.25 LG
5	11953-01	1	0	Radius Rod – 7600, Non-Adj., Fin
6	12709-01	8	4	Step Bolt – 1 1/4 x 7/8 - 14 UNF x 6.06, GR 5
7	12710-01	8	4	Washer – .060 x 1.31 ID x 2.25 OD
8	7620-00	16	8	Bushing
9	12711-01	8	4	Plain Washer – .229 x .94 ID x 2.25 OD
10	34-02	8	4	Hex Locknut – 7/8 - 14 UNF, GRADE B
11	See Chart B	8	4	U-Bolt – 7/8 Dia. x 3 RD x See Chart
12	35-00	16	8	Washer – PL, 15/16 ID x 1 3/4 OD
13	34-04	16	8	Hex Nut – 7/8 - 14 UNF - 2B, GR 5
14	16868-01	4	2	Top Plate – Roll Formed
15	See Chart C	4	2	Spring Seat – 5 Round (Shown)
16	See Chart D6	4	2	Bottom Plate – 5 Round (Shown)
17	759-00	2 per R	ocker	Hex Bolt – 5/8 - 18 UNF x 4 1/2 LG, GR 2 (Shipped loose, not part of
		1 per Re	ar Hgr.	center rocker & hanger assy. However it is part of the rear hanger assy.)
18	756-00	2 per R	ocker	Sleeve Spacer – 3/4 OD x 18 GA x 3 1/4 LG (Shipped loose, not part
		1 per Re		of center rocker & hanger assy. However it is part of the rear hanger assy.)
19	37-03	2 per R	ocker	Hex Locknut – 5/8 - 18 UNF, GR B (Shipped loose, not part
		1 per Re	ar Hgr.	of center rocker & hanger assy. However it is part of the rear hanger assy.)
20	See Chart G	2	2	Adj. Radius Rod
21	See Spring Appendix	4	2	Spring Assembly
22	See Chart E	2	2	Center Rocker Hanger
23	16160-01 or	2	2	Rocker Assembly – Cast 53.5/54.5, Rubber Bushing
	16168-02 or	2	2	WS Rocker – Rubber Bushing, Single Bolt, 60/61 AC
	16168-04	2	2	WS Rocker – Rubber Bushing, Single Bolt, 72/73 AC
24	16150-01	1 per Rocker		Hex Cap Screw – 1.125 - 7 UNC x 6.62 LG, GR 5
25	837-00	2 per Rocker		Washer – 1/8 x 1 1/4 OD x 2 1/4 OD
26	11154-00	1 per R		Hex Locknut – 1 1/8 - 7 UNC, GR 5
27	See Chart F	2	2	Spring Seat – Replaces Spring Seats On Rear Axle
28	See Chart F	2	2	Attach Fitting – Replaces Bottom Plates On Rear Axle
29	See Chart F	4	4	U-Bolt – Replaces U-Bolts On Rear Axle
30	See Chart G	2	2	Adj. Radius Rod – Replaces Adj. Radius Rods On Rear Axle

# 9600 Tandem Widespread 72" (1829mm)



# **Multi Axle Conversion Kit**

# One Required for Each Axle Beyond a Tandem

