

Trailer parts

catalog



AXLES • TABLE OF CONTENTS

Our typical axle part number is a seven digit number with the axle nomenclature definition comprised of several groups of digits representing available options on that part number. Immediately after the Table of Contents, there are nine charts to help outline those options. Below the main groups are defined to ease the process.

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All diagrams, charts, illustrations and images are for representation only.

AXLE CONVERSION CHART

Determine Your Axle Hub Face

Axle Model	Hub Face (Outside of Brake Flanges)	Spindle end to end
2.2K	+6.90	-4.562
3.5K	+6.34	-4.375
D44	+7.08	-5.062
5.2K (655)	+8.73	-5.75
6K, 7K (865)	+8.73	-5.75
5.2K-7K w/Demountable Hub	+7.73	-6.75
7.2K	+7.54	-5.875
8K	+9.09	-5.875
9K Hybrid	+10.63	-6.125
Old 9K (Pre 1990)	+10.46	-6.125
9K, 10K GD (Old Style '89-'09)	+13.50	-8.625
9K, 10K GD (New Style '09-C)	+10.98	-6.625
10K Heavy Duty	+14.35	-8.875
10K Heavy Duty 10-11.25	+11.15	-12.062
12K Low Profile	+21.77	-9.125
12K High Profile	+15.27	-9.125
12K High Profile Disc	+14.35	-9.125
15K	+17.45	-9.25
15K 10 on 11 1/4 Hub	+12.06	-12.062

NOTE: Use this chart as a general guide only. Verify conversion prior to attempting to order or install product.

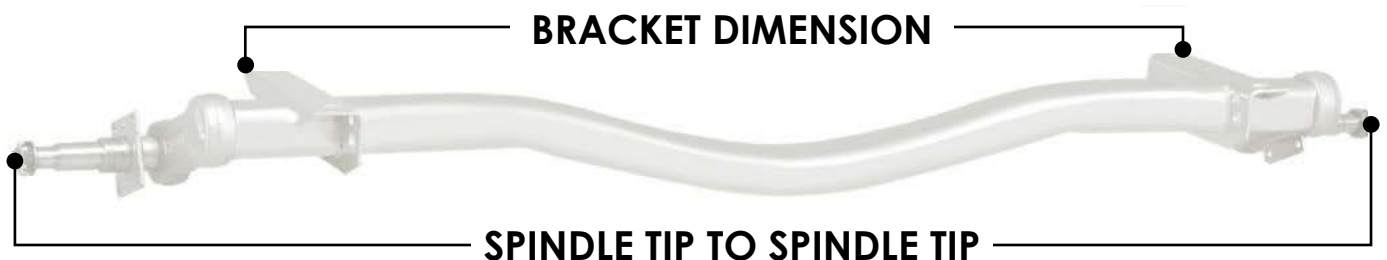
Marine Spring Square Tube Axles

M22 & M35 LEAF SPRING SQUARE TUBE MARINE AXLES are designed for light capacity boat trailers or trailers being towed by smaller vehicles. They are manufactured with high strength 2" square hot dipped galvanized tubing with E-Z Lube® spindles and Stainless Steel Wear Sleeves for grease seal journals. The Hubs or Hub & Drums are cast iron coated with GAL-DEX®. They are sold complete with Press-in Wheel Studs and Nuts. They are available in drop center V-bend axle configuration or straight. These axles are standard with heavy duty precision machined steel spindles. The M35 is available with corrosion resistant hydraulic free backing or hydraulic disc brakes.

Within the Marine Industry, these axles are routinely measured from Tip of one spindle to the Tip of the other. The chart below will enable a user with the Tip to Tip beam measurement to determine the Hub Face measurement needed for the purposes of ordering replacement beams. For example, if the Tip to Tip (T2T) beam measurement is 53" for a 2.2K Axle, following the chart below for the 2.2K Spindle End to End Measurement, the user would subtract 4.562 from 53 to determine a 48.438" Hub Face is needed. Rounded to the nearest 1/4" Inch, the user would order a M22 2.2K Beam with a Hub Face of 48.50".

Axle Model	Hub Face (Outside of Brake Flanges)	Spindle end to end
2.2K (D22, M22, TF9)	+6.90	-4.562
3.5K (D35, M35, TF10)	+6.34	-4.375

NOTE: Use this chart as a general guide only. Verify conversion prior to attempting to order or install product.



HOW TO ORDER AN AXLE

NEW AXLE CONFIGURATION

Questions that lead the user to the right axle:

1. What will you haul? What is the weight of that equipment combined?

LOAD CAPACITY: the load rating of an axle must support the maximum gross vehicle (GVW) rating. If your trailer weighs 1,000 lbs and your equipment weighs 2,200 lbs, you will need at least a 3,500 lbs capacity axle.

2. What deck height do you desire for your trailer? Do you want your wheels to ride outside the frame (lowering your deck height) or ride underneath your trailer frame (giving you a wider trailer deck)?

SPINDLE OPTIONS: the spindle options available are straight or drop. A drop spindle will give you the lower deck but limits the width available for your deck. Most common spindle choice is the straight.

3. What size tires and wheels do you want on your trailer? If you want at least a 6-bolt 225/75 Tire/Wheels, then you should order at least a 5,200 lbs capacity axle so that your tire and wheels do not out-capacity your axle.

TIRE AND WHEEL OPTIONS: There are many tire and wheel options (see section E of this catalog). The tire and wheel assemblies is often an important aspect of a trailer for a user. Your sales representative can help answer any questions regarding the choices provided.

4. A suspension consideration when selecting an axle is whether you want a Torsion Suspension or a Spring Suspension (see section D for the differences in these two offerings). Once the decision is made on the suspension type, then the axle type is determined. However, regardless of the axle type, a choice in bearing lubrication is necessary.

SUSPENSION: Torsion or Spring Options.

LUBE: Standard grease, E-Z Lube grease, and for higher capacity axles, Nev-R-Lube and Oil Bath Options.

5. Do you want trailer brakes?

BRAKE OPTIONS: No Brakes, Electric, Hydraulic Drum, or Hydraulic Disc Brakes? Each has other costs variances associated with them.

6. How long does the axle need to be?

TRACK WIDTH: To determine your trailer's track width, measure from the center of one tire to the center of the opposite tire on the other end of the same axle. A more precise measurement can be obtained by measuring the distance from the hub's face to the other end's hub face. This hub face (or track width) measurement will tell you the axle's length.

SPRING CENTER: For replacement axle, to determine the spring center, measure from the center of one spring to the center of the opposite spring. For new axles, determine the outside to outside width of the trailer frame and subtract 2-inches to obtain your spring centers.

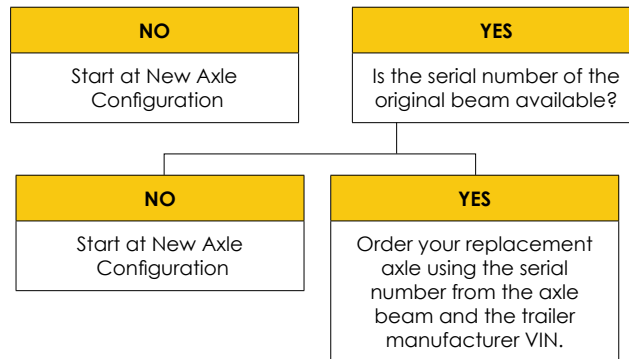
7. What other options are available that I haven't considered?

OTHER OPTIONS: There are many options available not mentioned above but finish is one of them. Typically, axles are finished with black paint. However, if your axles need to be galvanized, v-bent for marine applications, or even a torsion suspension with heavy duty air bags added, it is all options to consider when making your axle decision.

8. Cambered or No Cambered Axle?

Axles can be built with a small positive camber built into the beam, typically 1/4" Positive Camber. This is referred to as a "Cambered Axle". These axle beams are engineered with a slight upward bend so that when the load is placed on the trailer, the axle beam deflects to the load condition, enabling the tires to ride flat on the road. Some customers prefer to have no camber. It is optional on most axle orders. Most axles are standard with a cambered beam. The Camber of the axle is non-adjustable and is a permanent option.

REPLACING A DAMAGED AXLE

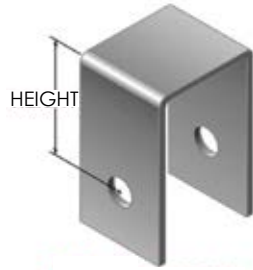


AXLE IDENTIFICATION:

In the unlikely event that you should require a replacement axle, please locate the serial number of the axle and have it available when you place your order or call for information. It will help ensure an exact replacement and / or that the correct parts are provided. Most axles since 2001 have an identification tag or engraved serial number or lot number on the axle beam. For easier identification of the engraved, rubbing some chalk over the number may help enhance the number for ease of copying.

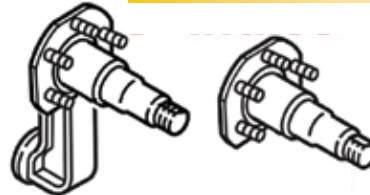


SPRUNG AXLES • AXLE MEASUREMENTS



HANGER

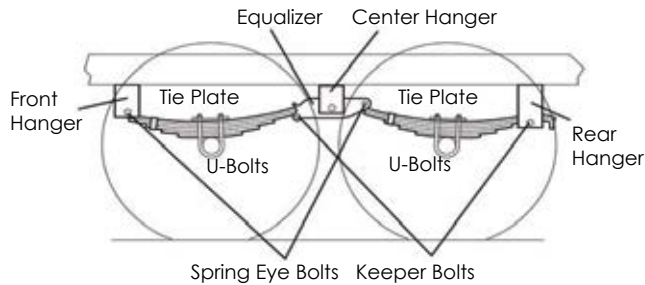
SPINDLES



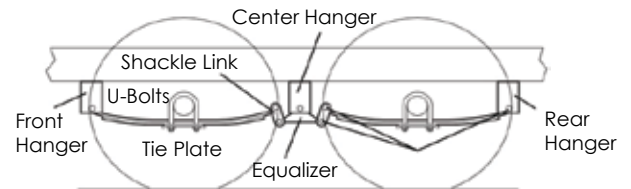
DROP

STRAIGHT

SPRING POSITION

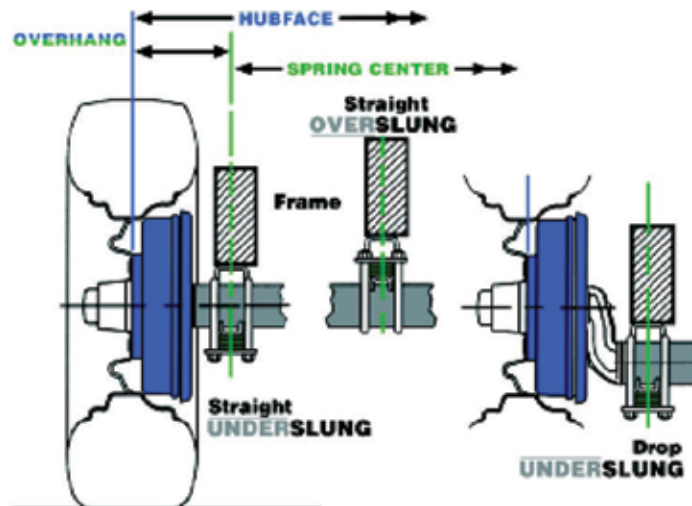


**OVERSLUNG
SPRINGS ARE OVER THE AXLE**

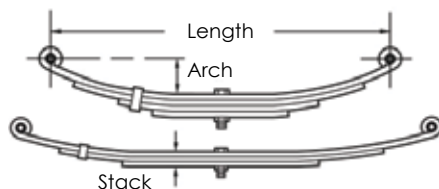


**UNDERSLUNG
SPRINGS ARE UNDER THE AXLE**

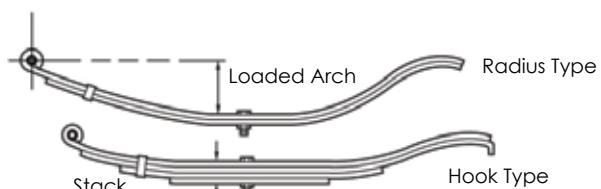
STRAIGHT • DROP • OVERSLUNG • UNDERSLUNG



SPRING TYPE



DOUBLE-EYE SPRING

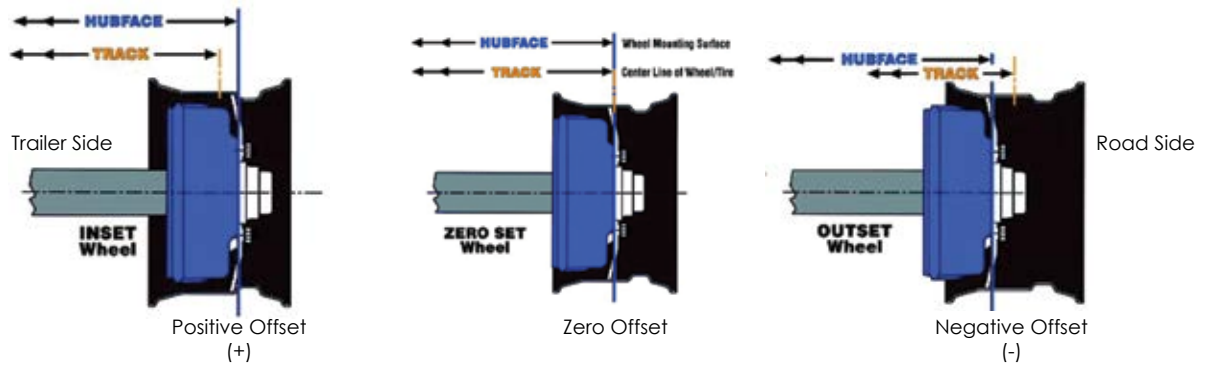


SLIPPER SPRING

Refer to Section D, Suspension for specific spring options available.

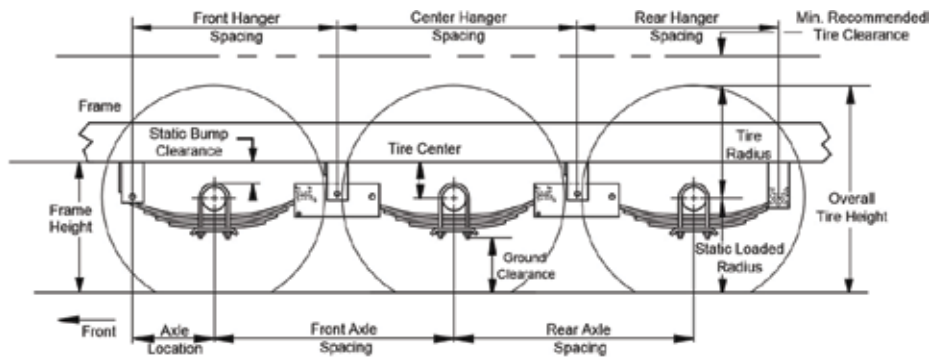
SPRUNG AXLES • AXLE MEASUREMENTS

WHEEL CONSIDERATIONS

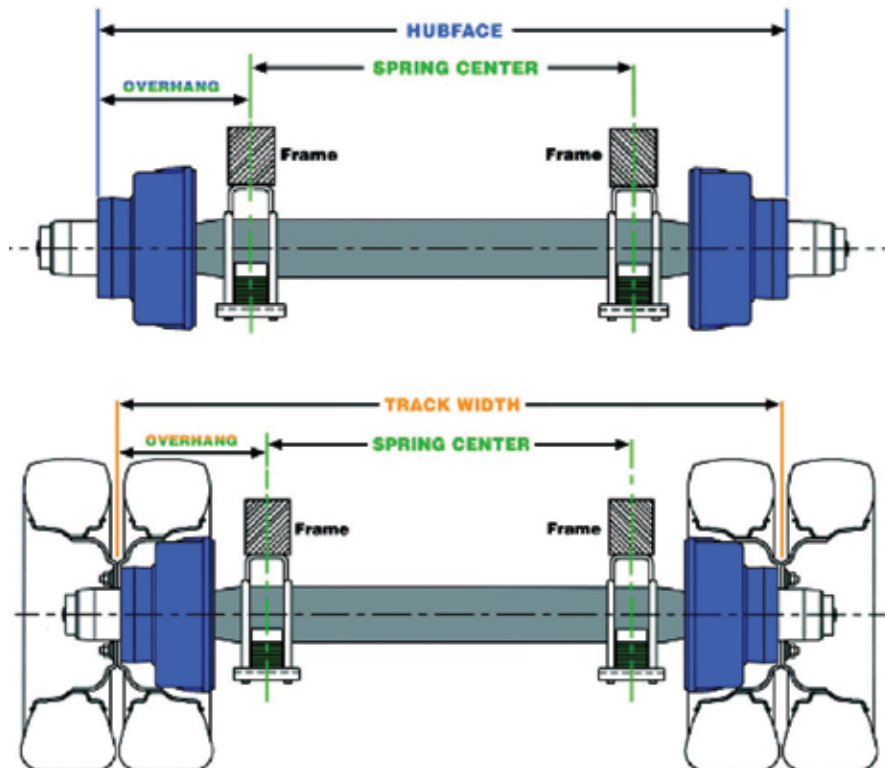


See Section E, Tire & Wheels for specific tire and wheel options available.

AXLE SPACING

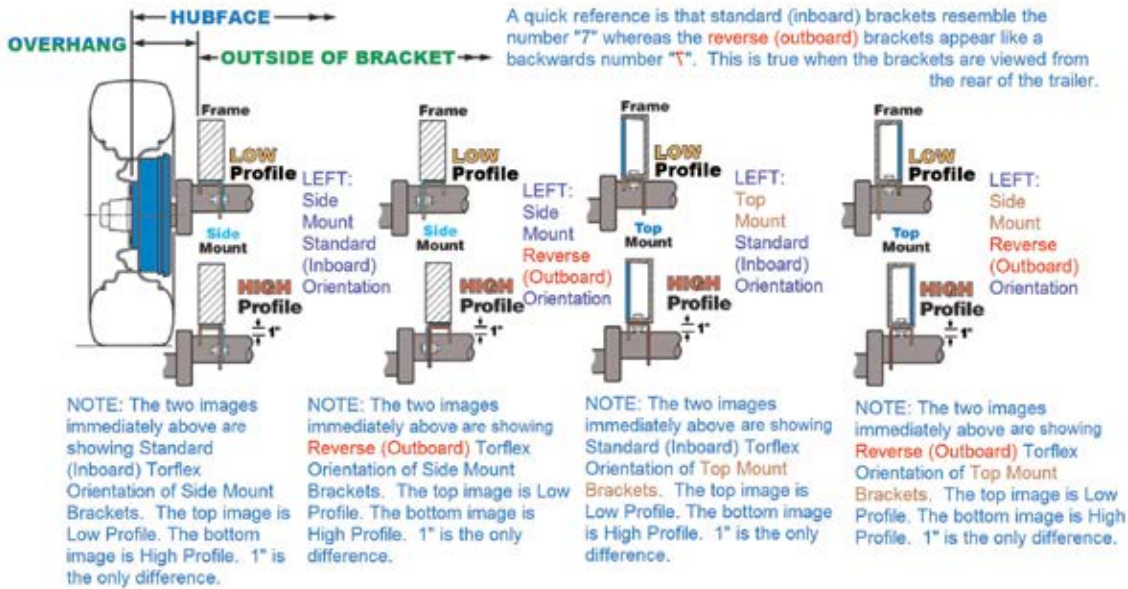


HUB FACE • TRACK WIDTH • SPRING CENTER

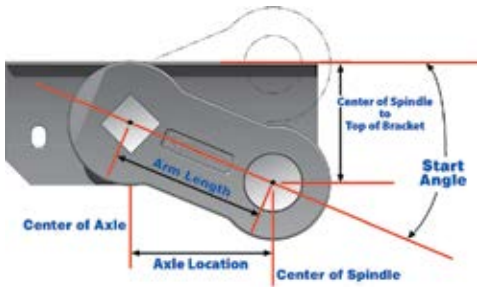
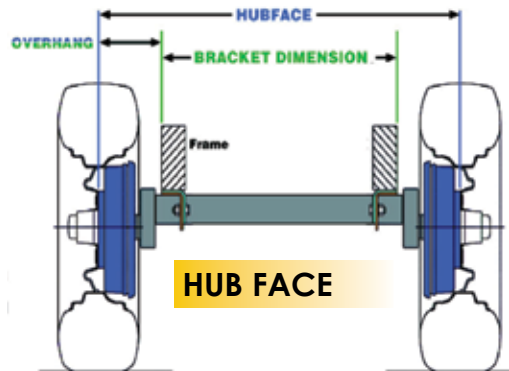
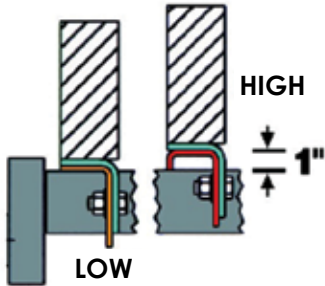


TORSION AXLES • AXLE MEASUREMENTS

BRACKET ORIENTATION



BRACKET PROFILE

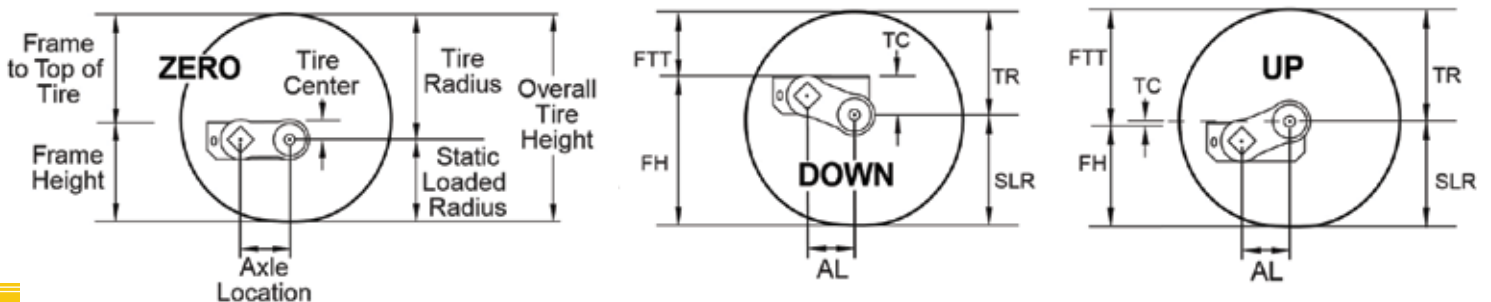


REMOVABLE SPINDLE



Ask your Sales Representative about this Torsion Removable Spindle Option. For more details see next page.

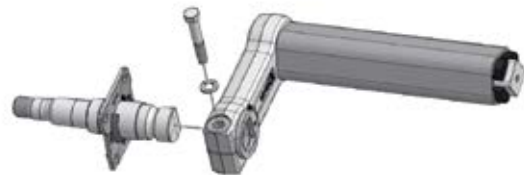
START ANGLE (UNLOADED)



TORFLEX® REMOVABLE SPINDLE CONSIDERATIONS



REPLACEMENT SPINDLE KIT	ID NO.	ITEM NO.
TF#9 2.2K REMOVABLE SPINDLE KIT	K71-742-00	8750108
TF#10 3.5K REMOVABLE SPINDLE KIT	K71-743-00	8750109
TF#11 6K REMOVABLE SPINDLE KIT	K71-744-00	8750110
TF#12 7K REMOVABLE SPINDLE KIT	K71-745-00	8750111



Features & Benefits

- Ability to replace a damaged spindle in the field greatly reduces repair costs by not having to replace the complete axle.
- With only one bolt to remove, the procedure is quick and easy
- Removal of the spindle requires no special tools.
- A positive spindle location with "D" washer design ensures proper brake flange location for brakes and EZ-Lube® hole.
- Positive depth location with clamping bolt and detent groove takes out the guess work with no measuring required.
- Clamping bolt and washer are made of stainless steel to resist corrosion resulting in easy removal.
- One spindle will replace either side, no need to order a left hand and right hand side.

Ordering Information:

- Removable Spindle Option must be designated at the time of ordering the axle.
- Only replace hub or hub-drum if damaged, although the bearing cones, cups and seals should be replaced.

SPRING AXLES • 2,200 LBS. Ⓢ

Axle Options



For illustration only: 2,200 LBS Straight E-Z Lube Spindle Idler Axle Shown without Brake Flange.



4 Wheel Studs on 4" Centers



5.5" Star Hub for 8-12" Wheels 5 Wheel Studs on 4-1/2" Centers



6.5" Hub for 13-15" Wheels 5 Wheel Studs on 4-1/2" Centers

	440	545 (5.5") 8-12" WHEELS	545 (6.5") 13-15" WHEELS
STRAIGHT			
IDLER GREASE	6151000	6151012	6156633
IDLER EZ-LUBE	6151001	6151013	6156634
ELECTRIC GREASE	6151002	N/A	6151014
ELECTRIC EZ-LUBE	6151003	N/A	6151015
HYDRAULIC GREASE	6151004	N/A	6151016
HYDRAULIC EZ-LUBE	6151005	N/A	6151017

DROP			
IDLER 4" DROP GREASE	6151006	6151018	6156635
IDLER 4" DROP EZ-LUBE	6151007	6151019	6156636
ELECTRIC 4" DROP GREASE	6151008	N/A	6151020
ELECTRIC 4" DROP EZ-LUBE	6151009	N/A	6151021
HYDRAULIC 4" DROP GREASE	6151010	N/A	6151022
HYDRAULIC 4" DROP EZ-LUBE	6151011	N/A	6151023

Beam Only

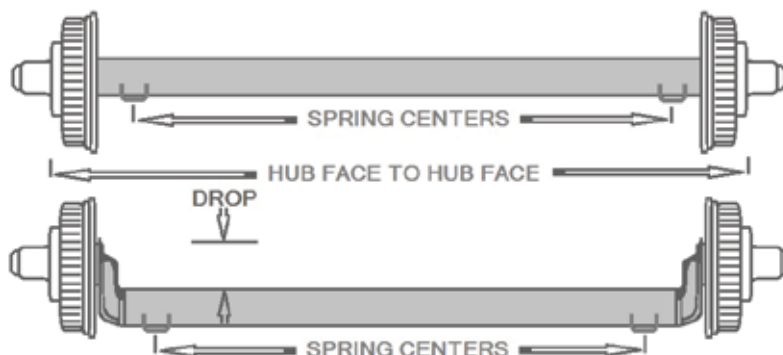
STRAIGHT	
BEAM STANDARD SPINDLE	6100500
BEAM EZ-LUBE SPINDLE	6100501

DROP	
BEAM STANDARD SPINDLE	6100518
BEAM EZ-LUBE SPINDLE	6100519

See pages A63-64 for detail about Marine Axles.

STANDARD FEATURES:	
*7" Brake	
*1/2"-20 Press-In Wheel Studs and Nuts	
*1.75" OD Tube on Straight Axle	
*2.38" OD Tube on Drop Axles	
*0.156" Axle Tube Thickness	
*1-1/16" Spindles	
*L44649 Inner & Outer Bearings	
*Idlers are without a brake flange.	
*Hub Face up to 96"	
UPGRADE OPTIONS:	
*2.38" OD Tube on Straight Axles	
*3.00" OD x 0.191" Thick Tube on Drop Axles	

Difference Between Hub Face and Spring Centers



	STRAIGHT
MAXIMUM	15.25"
RECOMMENDED	14.75"
MINIMUM	11.50"

	DROP
MAXIMUM	18.00"
RECOMMENDED	16.00"
MINIMUM	15.25"

SPRING AXLES • 2,200 LBS. ☺

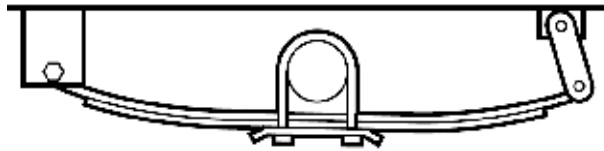


SPRING & U-BOLT KITS FOR 1-3/4" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150006-02	2-1020	1,000	1.75"	20.38"	3	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150073-02	2-PR722	1,250	1.75"	25.25"	3	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150065-02	2-WID2	1,000	1.75"	27.38"	2	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150007-02	2-WIH4	1,000	1.75"	24.62"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT

SPRING & U-BOLT KITS FOR 2-3/8" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150006-04	2-1020-D	1,000	1.75"	20.38"	3	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150073-04	2-722-D	1,250	1.75"	25.25"	3	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150065-04	2-WID2-D	1,000	1.75"	27.38"	2	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150007-04	2-WIH4-D	1,000	1.75"	24.62"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100063	APS1	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100116	APS2	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100007	APS3SE	2K-3.5K	1.75"	SINGLE AXLE SPLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits and Hanger Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



☺ SPRING AXLES • 2,200 LBS.



CONFIDENCE | TRUSTED | CERTIFIED | DEPENDABLE

The Strongest Axle Warranty Available

Over 50 Million Axles Installed

ISO 9001

Built in America



Maneuver Challenging Highway Conditions with Confidence

Disc Brake Systems

- Fixed caliper, opposing piston technology as used in racing for superior durability
- Self-adjusting calipers eliminate manual brake adjustments
- Brake pads can be replaced without removing caliper
- Improved resistance to brake fade
- Lower maintenance cost
- Dexter disc brake mounts to the axle using the same flange position as drum brakes
- Two-year limited warranty



GEARED FOR INNOVATION SINCE 1960
ISO 9001 Certified

SPRING AXLE • 3,500 LBS. ☺

Axle Options



For illustration only: 3,500 LBS Straight Grease Spindle Brake Axle Shown with Double-Eye Springs.

	545	555
	5475	655
STRAIGHT	550	
IDLER GREASE	6151100	6151170
IDLER EZ-LUBE	6151101	6151171
ELECTRIC GREASE	6151102	6151172
ELECTRIC EZ-LUBE	6151103	6151173
UNI-SERVO HYDRAULIC GREASE	6151106	6151175
UNI-SERVO HYDRAULIC EZ-LUBE	6151107	6151177
HYDRAULIC DISC GREASE*	6151104	n/a
HYDRAULIC DISC EZ-LUBE*	6151105	n/a
HYDRAULIC FREEBACKING GREASE	6151108	6151176
HYDRAULIC FREEBACKING EZ-LUBE	6151109	6151179

	545	555
	5475	655
DROP	550	
IDLER 4" DROP GREASE	6151110	6151181
IDLER 4" DROP EZ-LUBE	6151111	6151182
ELECTRIC 4" DROP GREASE	6151112	6151183
ELECTRIC 4" DROP EZ-LUBE	6151113	6151184
UNI-SERVO HYDRAULIC 4" DROP GREASE	6151116	6151185
UNI-SERVO HYDRAULIC 4" DROP EZ-LUBE	6151117	6151187
HYDRAULIC DISC 4" DROP GREASE*	6151114	n/a
HYDRAULIC DISC 4" DROP EZ-LUBE*	6151115	n/a
HYDRAULIC FREEBACKING 4" DROP GREASE	6151118	6151186
HYDRAULIC FREEBACKING 4" DROP EZ-LUBE	6151119	6151188

*Hydraulic Disc only available with a 545 Bolt Pattern.



Beam Only

STRAIGHT

BEAM STANDARD SPINDLE	6100502
BEAM EZ-LUBE SPINDLE	6100503

DROP

BEAM STANDARD SPINDLE	6100520
BEAM EZ-LUBE SPINDLE	6100521

See pages A66-A67 for detail about Marine Axles.

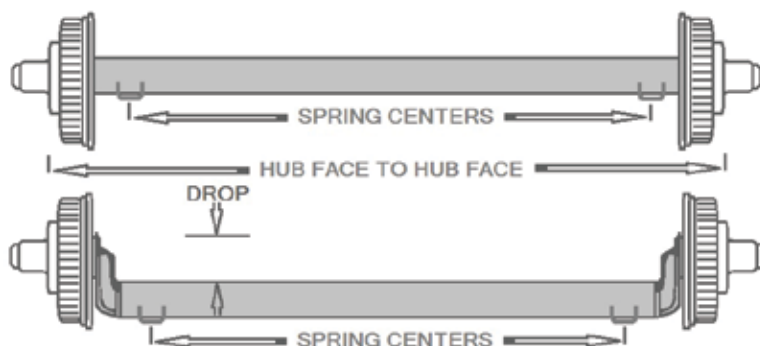
STANDARD FEATURES:

- *10" Brake
- *1/2"-20 Press-In Wheel Studs and Nuts
- *2.38"OD x 0.156" Thick Tube on Straight Axles
- *3.00"OD X 0.191" Thick Tube on Drop Axles
- *#84 Spindle
- *L68149 Inner Bearings & L44649 Outer Bearings
- *Hub Face up to 96"

UPGRADE OPTIONS:

- *3.00"OD x 0.191" Tube on Straight Axles
- *3.00"OD x 0.250" Thick Tube on Drop Axles
- *Park feature available on electric and hydraulic brakes.
- *Nev-R-Adjust Brakes

Difference Between Hub Face and Spring Centers



	STRAIGHT
MAXIMUM	18.00"
RECOMMENDED	16.00"
MINIMUM	11.25"
	DROP
MAXIMUM	18.00"
RECOMMENDED	16.50"
MINIMUM	14.00"

SPRING AXLE • 3,500 LBS. =

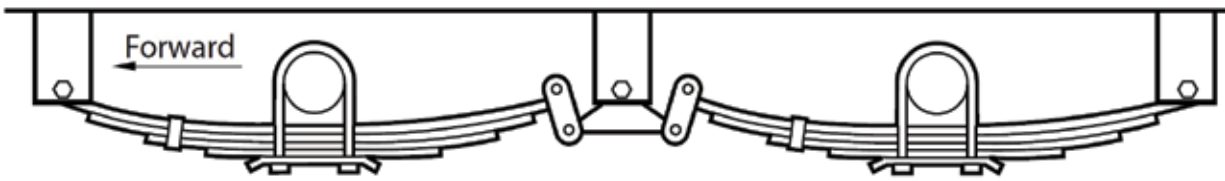


SPRING & U-BOLT KITS FOR 2-3/8" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150014-02	2-SW4B	1,750	1.75"	25.25"	4	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150015-02	2-WIG4	2,000	1.75"	30.25"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150011-04	2-WIF3-D	1,500	1.75"	30.25"	3	SINGLE AXLE RADIUS END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150016-02	2-SW4	2,500	1.75"	25.25"	4	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT

SPRING & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100063	APS1	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100116	APS2	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100007	APS3SE	2K-3.5K	1.75"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100064	APT1	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100041	APT3	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100060	APT4	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT



NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



SPRING AXLES • 3,500 LBS.

SPRING AXLE • 6,000 LBS. =

Axle Options



For illustration only: 6,000 LBS Straight Grease Spindle Brake Axle Shown with Double-Eye Springs.

STRAIGHT	655	865
IDLER GREASE	6151189	6151217
IDLER EZ-LUBE	6151190	6151218
IDLER OIL BATH	6156670	6151219
ELECTRIC GREASE	6151191	6151220
ELECTRIC EZ-LUBE	6151192	6151221
ELECTRIC OIL BATH	6156671	6151222
UNI-SERVO HYDRAULIC GREASE+	6151197	6151223
UNI-SERVO HYDRAULIC EZ-LUBE+	6151199	6151225
UNI-SERVO HYDRAULIC OIL BATH+	6156672	6151227
DUO-SERVO HYDRAULIC GREASE+	6151203	6151229
DUO-SERVO HYDRAULIC EZ-LUBE+	6151204	6151230
DUO-SERVO HYDRAULIC OIL BATH+	6156673	6151231
HYDRAULIC DISC GREASE*	6151194	n/a
HYDRAULIC DISC EZ-LUBE*	6151195	n/a
HYDRAULIC FREEBACKING GREASE	6151198	6151224
HYDRAULIC FREEBACKING EZ-LUBE	6151201	6151226
HYDRAULIC FREEBACKING OIL BATH	6156674	6151228

DROP	655	865
IDLER 4" DROP GREASE	6151206	6151232
IDLER 4" DROP EZ-LUBE	6151207	6151233
IDLER 4" DROP OIL BATH	6156675	6151234
ELECTRIC 4" DROP GREASE	6151208	6151235
ELECTRIC 4" DROP EZ-LUBE	6151209	6151236
ELECTRIC 4" DROP OIL BATH	6156676	6151237
UNI-SERVO HYDRAULIC 4" DROP GREASE+	6151212	6151238
UNI-SERVO HYDRAULIC 4" DROP EZ-LUBE+	6151214	6151240
UNI-SERVO HYDRAULIC 4" DROP OIL BATH+	6156679	6151242
DUO-SERVO HYDRAULIC 4" DROP GREASE+	6151216	6151244
DUO-SERVO HYDRAULIC 4" DROP EZ-LUBE+	6156680	6151245
DUO-SERVO HYDRAULIC 4" DROP OIL BATH+	6156681	6151246
HYDRAULIC DISC 4" DROP GREASE*	6151210	n/a
HYDRAULIC DISC 4" DROP EZ-LUBE*	6151211	n/a
HYDRAULIC FREEBACKING 4" DROP GREASE	6151213	6151239
HYDRAULIC FREEBACKING 4" DROP EZ-LUBE	6151215	6151241
HYDRAULIC FREEBACKING 4" DROP OIL BATH	6156682	6151243

*Hydraulic Disc only available with a 655 Bolt Pattern with Straight Spindle Axles.
+Rated only at 5,200-lbs Capacity.

See page A-69 for detail about Marine Axles.

Beam Only

STRAIGHT	
BEAM STANDARD SPINDLE	6100504
BEAM EZ-LUBE SPINDLE	6100505

DROP	
BEAM STANDARD SPINDLE	6100524
BEAM EZ-LUBE SPINDLE	6100525

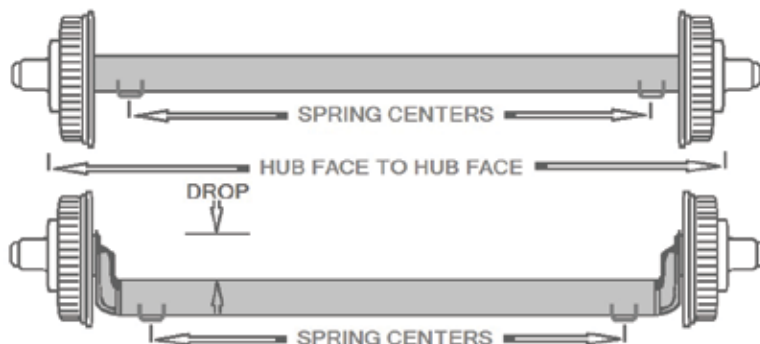
STANDARD FEATURES:

- *12" Brake
- *1/2"-20 Press-In Wheel Studs and Nuts
- *3.00"OD x 0.191" Thick Tube on Straight Axles
- *3.00"OD X 0.250" Thick Tube on Drop Axles
- *#42 Spindle
- *25580 Inner Bearings & LM67048 (5.2K), 15123 (6K 655), or 14125A (6K 865) Outer Bearings
- *Hub Face up to 96"

UPGRADE OPTIONS:

- *3.00"OD x 0.302" Thick Tube on Available
- *9/16"-18 Press-In Wheel Studs and Nuts
- *Nev-R-Adjust Brakes
- *UTG (Utility Grade) 5 Bolt Hub
- *Park feature available on electric and hydraulic brakes
- *Hydraulic Disc available in 655 Bolt Pattern Straight Spindle Axles Only
- *Forward Self-Adjusting Brakes
- *Nev-R-Lube available on Straight Axles Only

Difference Between Hub Face and Spring Centers



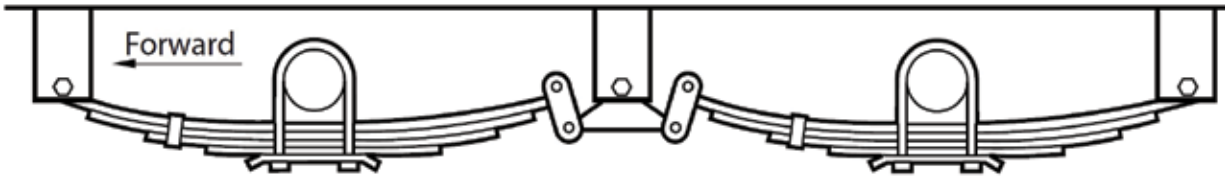
	STRAIGHT
MAXIMUM	19.00"
RECOMMENDED	16.00"
MINIMUM	12.75"
	DROP
MAXIMUM	19.00"
RECOMMENDED	18.50"
MINIMUM	15.75"

SPRING AXLE • 6,000 LBS. =



SPRING & U-BOLT KITS FOR 3" OD AXLE TUBES

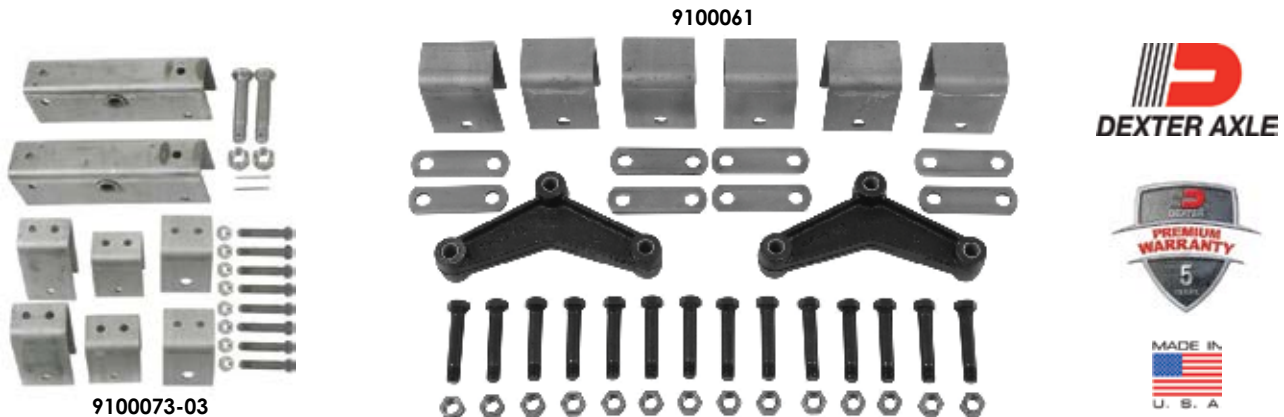
ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150020-02	2-E5226	3,400	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150022-02	2-HW5116	3,750	2.00"	26.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150034-02	2-1403T3	4,000	2.00"	26.18"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-02	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



SPRING AXLE • 6,000 LBS.

SPRING AXLE • 6,000 LBS. HEAVY DUTY =

Axle Options



For illustration only: 6,000 LBS Heavy Duty Straight Grease Spindle Brake Axle Shown with Double-Eye Springs.

STRAIGHT	655	865
IDLER GREASE	6151278	6151307
IDLER EZ-LUBE	6151279	6151311
IDLER OIL BATH	6156688	6151308
ELECTRIC GREASE	6151280	6151309
ELECTRIC EZ-LUBE	6151281	6151310
ELECTRIC OIL BATH	6156689	6151312
UNI-SERVO HYDRAULIC GREASE+	6151286	6151314
UNI-SERVO HYDRAULIC EZ-LUBE+	6151288	6151316
UNI-SERVO HYDRAULIC OIL BATH+	6156693	6151318
DUO-SERVO HYDRAULIC GREASE+	6151292	6151322
DUO-SERVO HYDRAULIC EZ-LUBE+	6151293	6151323
DUO-SERVO HYDRAULIC OIL BATH+	6156694	6151324
HYDRAULIC DISC GREASE*	6151283	n/a
HYDRAULIC DISC EZ-LUBE*	6151284	n/a
HYDRAULIC FREEBACKING GREASE	6151287	6151315
HYDRAULIC FREEBACKING EZ-LUBE	6151290	6151317
HYDRAULIC FREEBACKING OIL BATH	6156695	6151320

DROP	655	865
IDLER 4" DROP GREASE	6151295	6151326
IDLER 4" DROP EZ-LUBE	6151296	6151327
IDLER 4" DROP OIL BATH	6156692	6151328
ELECTRIC 4" DROP GREASE	6151297	6151329
ELECTRIC 4" DROP EZ-LUBE	6151298	6151330
ELECTRIC 4" DROP OIL BATH	6156698	6151331
UNI-SERVO HYDRAULIC 4" DROP GREASE+	6151301	6151332
UNI-SERVO HYDRAULIC 4" DROP EZ-LUBE+	6151303	6151334
UNI-SERVO HYDRAULIC 4" DROP OIL BATH+	6156699	6151336
DUO-SERVO HYDRAULIC 4" DROP GREASE+	6151305	6151338
DUO-SERVO HYDRAULIC 4" DROP EZ-LUBE+	6151306	6151340
DUO-SERVO HYDRAULIC 4" DROP OIL BATH+	6156701	6151341
HYDRAULIC DISC 4" DROP GREASE*	6151299	n/a
HYDRAULIC DISC 4" DROP EZ-LUBE*	6151300	n/a
HYDRAULIC FREEBACKING 4" DROP GREASE	6151302	6151333
HYDRAULIC FREEBACKING 4" DROP EZ-LUBE	6151304	6151335
HYDRAULIC FREEBACKING 4" DROP OIL BATH	6156702	6151337

*Hydraulic Disc only available with a 655 Bolt Pattern with Straight Spindle Axles.
+Rated only at 5,200-lbs Capacity.

See page A-70 for detail about Marine Axles.

Beam Only

STRAIGHT	
BEAM STANDARD SPINDLE	6100506
BEAM EZ-LUBE SPINDLE	6100507

DROP	
BEAM STANDARD SPINDLE	6100526
BEAM EZ-LUBE SPINDLE	6100527

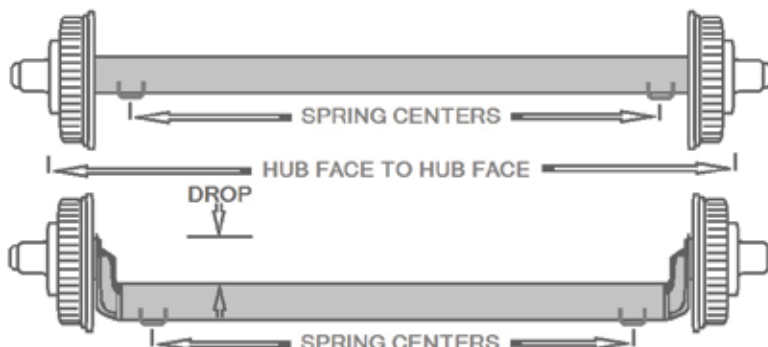
STANDARD FEATURES:

- *12" Brake
- *1/2"-20 Press-In Wheel Studs and Nuts
- *3.00"OD x 0.250" Thick Tube on Straight Axles
- *3.00"OD X 0.302" Thick Tube on Drop Axles
- *#42 Spindle
- *25580 Inner Bearings & 15123 (6K 655), or 14125A (6K 865) Outer Bearings
- *Hub Face up to 96"

UPGRADE OPTIONS:

- *3.50"OD x 0.250" Thick Tube on Available
- *9/16"-18 Press-In Wheel Studs and Nuts
- *Park feature available on electric and hydraulic brakes
- *Nev-R-Adjust Brakes
- *UTG (Utility Grade) 5 Bolt Hub
- *Hydraulic Disc available in 655 Bolt Pattern Straight Spindle Axles Only
- *Forward Self-Adjusting Brakes
- *Nev-R-Lube available on Straight Axles Only

Difference Between Hub Face and Spring Centers



STRAIGHT	
MAXIMUM	20.00"
RECOMMENDED	16.25"
MINIMUM	12.75"

DROP	
MAXIMUM	20.00"
RECOMMENDED	18.00"
MINIMUM	15.75"

SPRING AXLE • 6,000 LBS. HEAVY DUTY



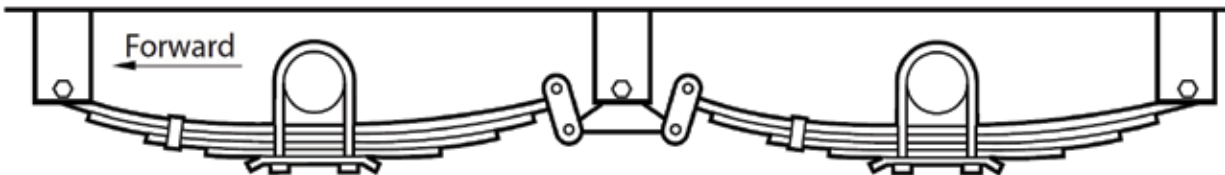
9150020-02

SPRING & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150020-02	2-E5226	3,400	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150022-02	2-HW5116	3,750	2.00"	26.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150034-02	2-1403T3	4,000	2.00"	26.18"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-02	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT

SPRING & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150034-03	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-03	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



9100020



SPRING AXLE • 6,000 LBS. HEAVY DUTY

SPRING AXLE • 7,000 LBS. =

Axle Options



For illustration only: 7,000 LBS Straight Grease Spindle Brake Axle Shown with Double-Eye Springs.

STRAIGHT	865
IDLER GREASE	6151380
IDLER EZ-LUBE	6151381
IDLER OIL BATH	6151382
ELECTRIC GREASE	6151383
ELECTRIC EZ-LUBE	6151384
ELECTRIC OIL BATH	6151385
UNI-SERVO HYDRAULIC GREASE	6151387
UNI-SERVO HYDRAULIC EZ-LUBE	6151389
UNI-SERVO HYDRAULIC OIL BATH	6151391
DUO-SERVO HYDRAULIC GREASE	6151395
DUO-SERVO HYDRAULIC EZ-LUBE	6151396
DUO-SERVO HYDRAULIC OIL BATH	6151397
HYDRAULIC DISC GREASE	6153570
HYDRAULIC DISC EZ-LUBE	6153568
HYDRAULIC DISC OIL BATH	6153569
HYDRAULIC FREEBACKING GREASE	6151388
HYDRAULIC FREEBACKING EZ-LUBE	6151390
HYDRAULIC FREEBACKING OIL BATH	6151393

DROP	865
IDLER 4" DROP GREASE	6151399
IDLER 4" DROP EZ-LUBE	6151400
IDLER 4" DROP OIL BATH	6151401
ELECTRIC 4" DROP GREASE	6151402
ELECTRIC 4" DROP EZ-LUBE	6151403
ELECTRIC 4" DROP OIL BATH	6151404
UNI-SERVO HYDRAULIC 4" DROP GREASE	6151405
UNI-SERVO HYDRAULIC 4" DROP EZ-LUBE	6151407
UNI-SERVO HYDRAULIC 4" DROP OIL BATH	6151409
DUO-SERVO HYDRAULIC 4" DROP GREASE	6151411
DUO-SERVO HYDRAULIC 4" DROP EZ-LUBE	6151412
DUO-SERVO HYDRAULIC 4" DROP OIL BATH	6151413
HYDRAULIC DISC 4" DROP GREASE	6156721
HYDRAULIC DISC 4" DROP EZ-LUBE	6156722
HYDRAULIC DISC 4" DROP OIL BATH	6156723
HYDRAULIC FREEBACKING 4" DROP GREASE	6151406
HYDRAULIC FREEBACKING 4" DROP EZ-LUBE	6151408
HYDRAULIC FREEBACKING 4" DROP OIL BATH	6151410

Beam Only

STRAIGHT	
BEAM STANDARD SPINDLE	6100508
BEAM EZ-LUBE SPINDLE	6100509

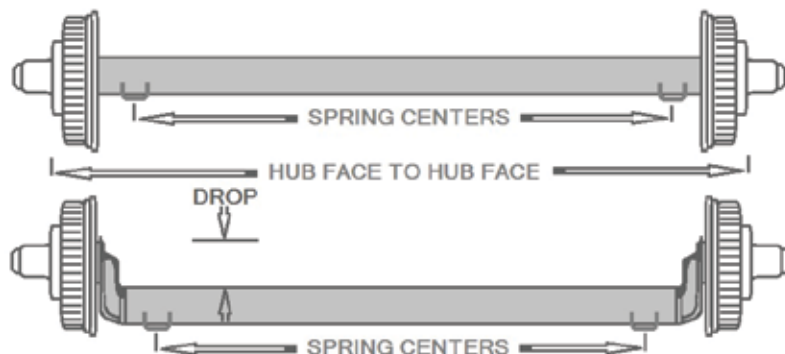
DROP	
BEAM STANDARD SPINDLE	6100528
BEAM EZ-LUBE SPINDLE	6100529

STANDARD FEATURES:
*12" Brake
*1/2"-20 Press-In Wheel Studs and Nuts
*3.00"OD x 0.250" Thick Tube on Straight Axles
*3.50"OD X 0.250" Thick Tube on Drop Axles
*#42F Spindle
*25580 Inner Bearings & 14125A (865) OR 15123 (UTG) Outer Bearings
*Hub Face up to 96"

UPGRADE OPTIONS:
*3.50"OD x 0.500" Thick Tube on Available
*9/16"-18 or 5/8"-18 Press-In Wheel Studs and Nuts
*Park feature available on electric and hydraulic brakes
*Nev-R-Adjust Brakes
*UTG (Utility Grade) 5 Bolt Hub
*Hydraulic Disc available in 655 Bolt Pattern Straight Spindle Axles Only
*Forward Self-Adjusting Brakes
*Nev-R-Lube available on Straight Axles Only

See page A-72 for detail about Marine Axles.

Difference Between Hub Face and Spring Centers



	STRAIGHT
MAXIMUM	18.00"
RECOMMENDED	16.25"
MINIMUM	13.00"

	DROP
MAXIMUM	18.00"
RECOMMENDED	17.75"
MINIMUM	15.75"

SPRING AXLE • 7,000 LBS. =



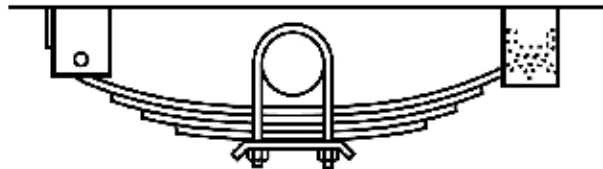
915000-02

SPRING & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150020-02	2-E5226	3,400	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150022-02	2-HW5116	3,750	2.00"	26.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150034-02	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-02	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT

SPRING & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES:

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150034-03	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-03	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



9100020



SPRING AXLE • 7,000 LBS.

SPRING AXLE • 7,200 LBS. Ⓢ

Axle Options



For illustration only: 7,200 LBS Straight Grease Spindle Brake Axle Shown with Double-Eye Springs.

STRAIGHT	865
ELECTRIC GREASE 9/16" STUDS	6151450
ELECTRIC EZ-LUBE 9/16" STUDS	6151451
ELECTRIC OIL BATH 9/16" STUDS	6151452
ELECTRIC GREASE 5/8" STUDS & FLANGE NUTS	6151635
ELECTRIC EZ-LUBE 5/8" STUDS & FLANGE NUTS	6151637
ELECTRIC OIL BATH 5/8" STUDS & FLANGE NUTS	6151639
ELECTRIC GREASE 5/8" STUDS	6151450
ELECTRIC EZ-LUBE 5/8" STUDS	6151638
ELECTRIC OIL BATH 5/8" STUDS	6151452

DROP	865
ELECTRIC 4" DROP GREASE 9/16" STUDS	6151453
ELECTRIC 4" DROP EZ-LUBE 9/16" STUDS	6151454
ELECTRIC 4" DROP OIL BATH 9/16" STUDS	6151455
ELECTRIC 4" DROP GREASE 5/8" STUDS & FLANGE NUTS	6151641
ELECTRIC 4" DROP EZ-LUBE 5/8" STUDS & FLANGE NUTS	6151643
ELECTRIC 4" DROP OIL BATH 5/8" STUDS & FLANGE NUTS	6151645
ELECTRIC 4" DROP GREASE 5/8" STUDS	6151642
ELECTRIC 4" DROP EZ-LUBE 5/8" STUDS	6151644
ELECTRIC 4" DROP OIL BATH 5/8" STUDS	6151646

STANDARD FEATURES:

- *12.25" x 2.50" Brake
- *9/16"-18 Press-In Wheel Studs and Nuts
- *3.00"OD x 0.250" Thick Tube on Straight Axles
- *3.50"OD X 0.500" Thick Tube on Drop Axles
- *DX Spindle
- *25580 Inner Bearings & 02475 Outer Bearings
- *Hub Face up to 96"

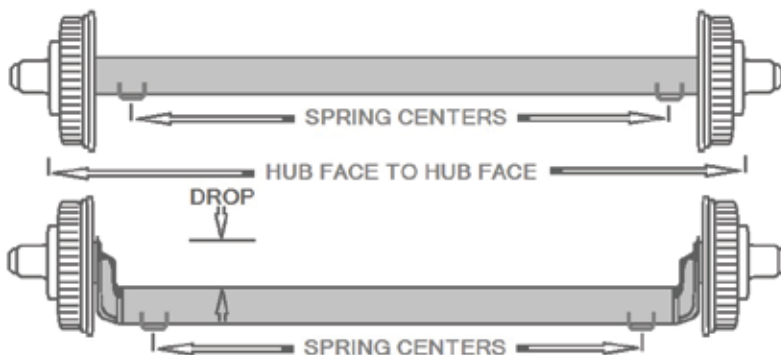
UPGRADE OPTIONS:

- *3.50"OD x 0.500" Thick Tube on Available
- *5/8"-18 Press-In Wheel Studs and Cone Nuts or Flange Nuts
- *Nev-R-Lube available on Straight Axles Only
- *Shock Absorbers with brackets
- *33" Lead Wires
- *32" Braided Wire Sleeves

Beam Only

STRAIGHT	
BEAM STANDARD SPINDLE	6100510
BEAM EZ-LUBE SPINDLE	6100511
DROP	
BEAM STANDARD SPINDLE	6100530
BEAM EZ-LUBE SPINDLE	6100531

Difference Between Hub Face and Spring Centers



	STRAIGHT
MAXIMUM	18.00"
RECOMMENDED	15.00"
MINIMUM	14.00"
	DROP
MAXIMUM	19.00"
RECOMMENDED	16.00"
MINIMUM	15.75"

SPRING AXLE • 7,200 LBS. ☺



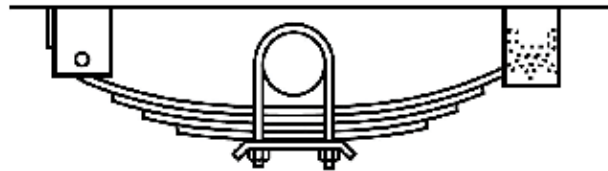
915000-02

SPRING & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150034-02	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-02	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT

SPRING & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150034-03	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE DOUBLE-EYE SPRINGS, U-BOLT & TIE PLATE KIT
9150024-03	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7.2K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7.2K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7.2K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.
 See Section B for Replacement Brakes.
 See Section C for Replacement Hub, Hub-Drums.
 See Section D for Hanger Kit Details.



9100020



9100119-01



9100018

☺ SPRING AXLE • 7,200 LBS.

SPRING AXLE • 8,000 LBS. =

Axle Options



For illustration only: 8,000 LBS Straight Grease Spindle Drum Brake Axle Shown with Double Eye Springs.

This axle is STANDARD Oil Bath Lubrication and Forward Self-Adjusting (FSA) Brakes.

STRAIGHT	865
IDLER OIL BATH	6151460
IDLER EZ-LUBE	6151461
ELECTRIC OIL BATH	6151462
ELECTRIC EZ-LUBE	6151463
DUO-SERVO HYDRAULIC OIL BATH	6151468
DUO-SERVO HYDRAULIC EZ-LUBE	6151469
HYDRAULIC DISC OIL BATH	6151465
HYDRAULIC DISC EZ-LUBE	6151466

DROP	865
IDLER 4" DROP OIL BATH	6151470
IDLER 4" DROP EZ-LUBE	6151471
ELECTRIC 4" DROP OIL BATH	6151472
ELECTRIC 4" DROP EZ-LUBE	6151473
DUO-SERVO HYDRAULIC 4" DROP OIL BATH	6151476
DUO-SERVO HYDRAULIC 4" DROP EZ-LUBE	6151477
HYDRAULIC DISC 4" DROP OIL BATH	6151474
HYDRAULIC DISC 4" DROP EZ-LUBE	6151475

STANDARD FEATURES:
*12.25" x 3.38" Brake
*9/16"-18 Press-In Wheel Studs and Nuts
*3.50"OD x 0.250" Thick Tube on Straight Axles
*3.50"OD X 0.500" Thick Tube on Drop Axles
*DX Spindle
*25580 Inner Bearings & 02475 Outer Bearings
*Forward Self-Adjusting Brakes
*Hub Face up to 96"

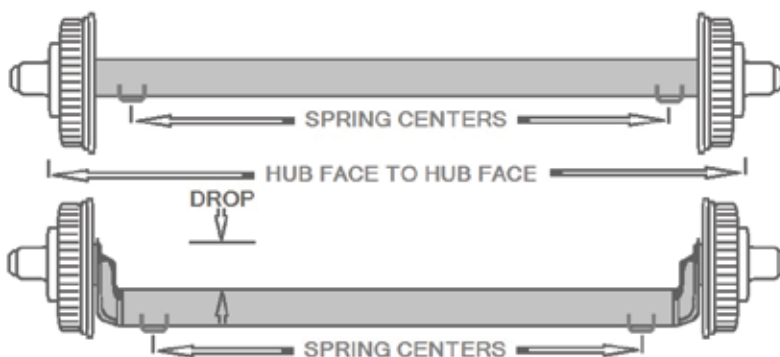
UPGRADE OPTIONS:
*3.50"OD x 0.500" Thick Tube on Available
*5/8"-18 Press-In Wheel Studs and Nuts
*Park feature available on hydraulic brakes
*Nev-R-Lube available on Straight Axles Only
*ABS Available hydraulic drum brakes

Beam Only

STRAIGHT	
BEAM STANDARD SPINDLE	6100512
BEAM EZ-LUBE SPINDLE	6100513

DROP	
BEAM STANDARD SPINDLE	6100532
BEAM EZ-LUBE SPINDLE	6100533

Difference Between Hub Face and Spring Centers



	STRAIGHT
MAXIMUM	19.00"
RECOMMENDED	19.00"
MINIMUM	16.00"

	DROP
MAXIMUM	19.00"
RECOMMENDED	19.00"
MINIMUM	18.00"

SPRING AXLE • 8,000 LBS. =

Axle Options



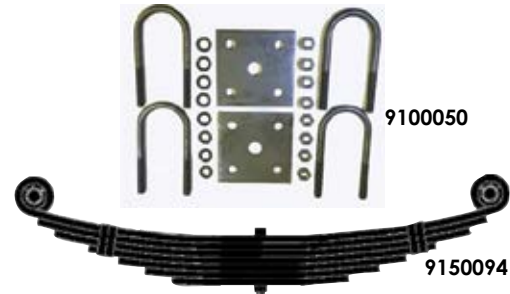
For illustration only: 8,000 LBS Straight Grease Spindle Drum Brake Axle Shown with Double Eye Springs.

SPRING & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES:

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	NO. OF LEAVES	DESCRIPTION
9150034-03	2-1403T3	4,000	2.00"	26.18"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT
9150024-03	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS, U-BOLT & TIE PLATE KIT



9150034-03



9100050

9150094

U-BOLT AND AXLE TIE PLATE BOXED KIT FOR 1-AXLE

ITEM NO.	ID NO.	CAPACITY	DIAMETER	LENGTH	DESCRIPTION
9100050	APUBR35D	8K	9/16"	7.8"	For 3-1/2" Round Tubes
9100049	APUBR35	8K	5/8"	9.0"	For 3-1/2" Round Tubes

SPRING ONLY FOR 8K AXLES*

ITEM NO.	ID NO.	WIDTH	LENGTH	LEAVES	TYPE SPRING
9150094	072-079-00	1.75"	26.00"	7	DOUBLE-EYE
9150038	072-051-02	2.00"	25.00"	7	SPLIPPER SPRING
9150036	072-051-01	2.00"	26.00"	7	SPLIPPER SPRING

*Requires 2-each springs per axle. Each spring capacity is 4K.

HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SPLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SPLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SPLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SPLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SPLIPPER SPRING HANGER KIT



9100020

NOTE: Spring and U-Bolt Kits and Hanger Kits - requires 1 kit per axle.
See Section B for Replacement Brakes.
See Section C for Replacement Hub, Hub-Drums.
See Section D for Hanger Kit Details.



9100018



9100119-01

SPRING AXLE • 9,000 LBS. =

Axle Options



For illustration only: 9,000 LBS Oil Bath Drum Brake Axle Shown with Slipper Springs.

AXLE	865
IDLER OIL BATH	6151490
ELECTRIC OIL BATH	6151491
DUO-SERVO HYDRAULIC OIL BATH	6151492
DUO-SERVO HYDRAULIC OIL BATH WITH ABS PACKAGE	6151493

ADD SPRINGS, U-BOLT AND AXLE TIE PLATE PER AXLE						
ITEM NO.	ID NO.	CAPACITY	LENGTH	LEAVES	TYPE	
6156825	72-10-2	4,500	30.00"	6	SLIPPER	

9,000 LBS SUSPENSION KITS

ITEM NO.	ID NO.	AXLE SPACING	DESCRIPTION
9100011	HAP-105-00	SINGLE AXLE	SINGLE AXLE HANGER & ATTACHING PARTS
9100008	HAP-205-01	*36-38"	**MULTI-AXLE CONVERSION KIT
9100009	HAP-205-02	42.25"	**MULTI-AXLE CONVERSION KIT
9100010	HAP-205-03	48.50"	**MULTI-AXLE CONVERSION KIT

* Axle spacing for single wheel axle is 36.00", for dual wheel axle spacing is 38.00".

** This kit must be added to a single to create a Tandem. Two kits must be added to a single to create a Triple.



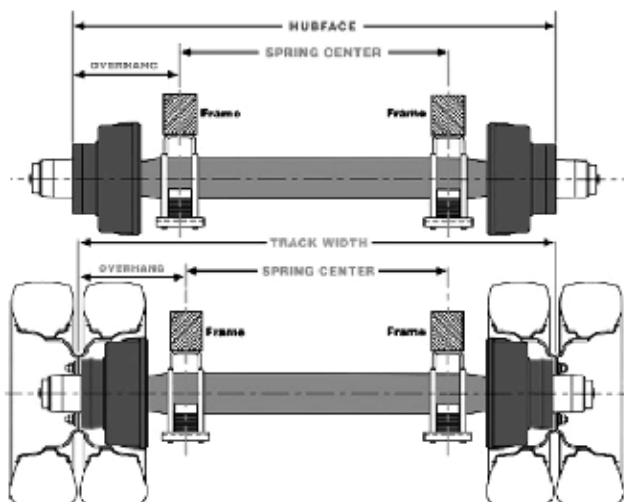
STANDARD FEATURES:
*12.25" X 3.38" Brake
*5/8"-18 Press-In Wheel Studs and Nuts
*4.00"OD x 0.310" Thick Tube
*865 Bolt Pattern with 4.75" Pilot
*387A Inner Bearings & 22580 Outer Bearings
*Forward Self-Adjusting Brakes
*Track Width up to 80"

UPGRADE OPTIONS:
*Adjustable Suspension
*Park feature available on hydraulic brakes
*ABS Available hydraulic drum brakes



Beam Only
BEAM STANDARD SPINDLE 6100514

Difference Between Hub Face / Track Width and Spring Centers

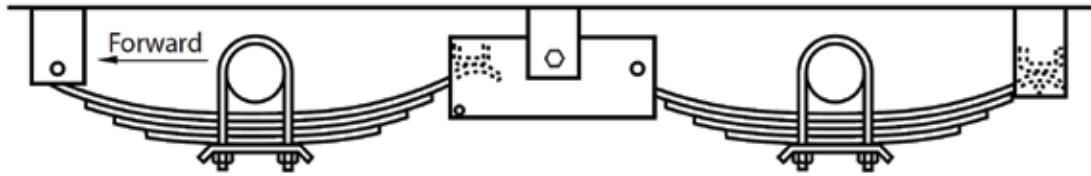


SINGLE WHEEL	
MAXIMUM	31.00"
RECOMMENDED	25.00"
MINIMUM	19.50"

DUAL WHEEL	
MAXIMUM	31.00"
RECOMMENDED	28.50"
MINIMUM	26.00"

*Must specify "Old Style Spindle" when replacing axles or beams built before August 2009.

SPRING AXLE • 9,000 LBS. =



				2" WIDE SLIPPER SPRING HANGER KITS FOR 9K AXLES				
				QUANTITY INCLUDED IN KIT				
				ITEM NO.	9100011	9100008	9100009	9100010
HANGER KIT COMPONENTS				ID NO.	HAP-105-00	HAP-205-01	HAP-205-02	HAP-205-03
ITEM NO.	ID NO.	DESCRIPTION	HEIGHT	SINGLE	38.00	42.30	TANDEM AXLE SPACING 48.50	
9000120	028-068-04	HANGER	4.500"	2	-	-	-	
9000118	030-068-01	HANGER	6.375"	2	-	-	-	
9000117	029-039-04	HANGER	4.500"	-	2	2	2	
9000072	013-117-03	EQUALIZER 38.00" SPACING		-	2	-	-	
9000071	013-118-03	EQUALIZER 42.25" SPACING		-	-	2	-	
9000073	013-119-03	EQUALIZER 48.50" SPACING		-	-	-	2	
9000020	007-007-00	SPRING KEEPER BOLT		2	2	2	2	
9000143	006-011-00	LOCKNUT		2	2	2	2	
9000021	007-181-00	SPRING EYE BOLT		2	2	2	2	
9000144	006-038-00	LOCKNUT		2	2	2	2	
9000019	007-182-00	EQUALIZER BOLT		-	2	2	2	
9000136	006-112-00	LOCKNUT		-	2	2	2	

See Suspension Section, page D-12 for more specific details.



SPRING AXLE • 10,000 LBS. GENERAL DUTY

Axle Options



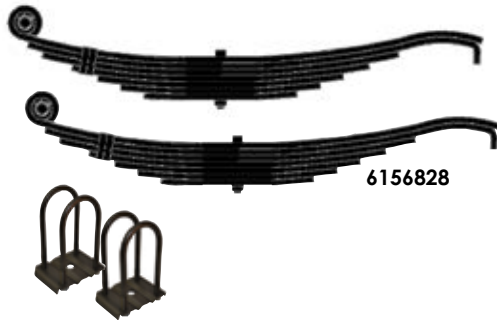
For illustration only: 10,000 LBS General Duty Oil Bath Drum Brake Axle Shown with Slipper Springs.

AXLE	865	ADD SPRINGS, U-BOLT AND AXLE TIE PLATE PER AXLE						
IDLER OIL BATH	6151505	ITEM NO.	ID NO.	CAPACITY	LENGTH	LEAVES	WIDTH	TYPE
ELECTRIC OIL BATH	6151506	6156826	72-80-1	5,000	30.00"	5	2.50"	SLIPPER
DUO-SERVO HYDRAULIC OIL BATH	6151507	6156828	72-43-1	5,000	30.00"	5	3.00"	SLIPPER
DUO-SERVO HYDRAULIC OIL BATH WITH ABS PACKAGE	6151508	6156830	72-44-1	6,000	30.00"	6	3.00"	SLIPPER
		6156831	72-45-1	7,500	30.00"	7	3.00"	SLIPPER

10,000 LBS GENERAL DUTY SUSPENSION KITS

ITEM NO.	ID NO.	AXLE SPACING	DESCRIPTION
9100072	HAP-158-00	SINGLE AXLE	SINGLE AXLE HANGER & ATTACHING PARTS
9100089	HAP-258-01	38.00"	*MULTI-AXLE CONVERSION KIT
9100090	HAP-258-02	42.25"	*MULTI-AXLE CONVERSION KIT
9100091	HAP-258-03	48.50"	*MULTI-AXLE CONVERSION KIT

* This kit must be added to a single to create a Tandem. Two kits must be added to a single to create a Triple.



STANDARD FEATURES:

- *12.25" X 3.38" Brake
- *5/8"-18 Press-In Wheel Studs and Nuts
- *5.00"OD x 0.250" Thick Tube
- *865 Bolt Pattern with 4.75" Pilot
- *387A Inner Bearings & 22580 Outer Bearings
- *Forward Self-Adjusting Brakes
- *Track Width up to 80"
- *7-Bolt Brake Flange

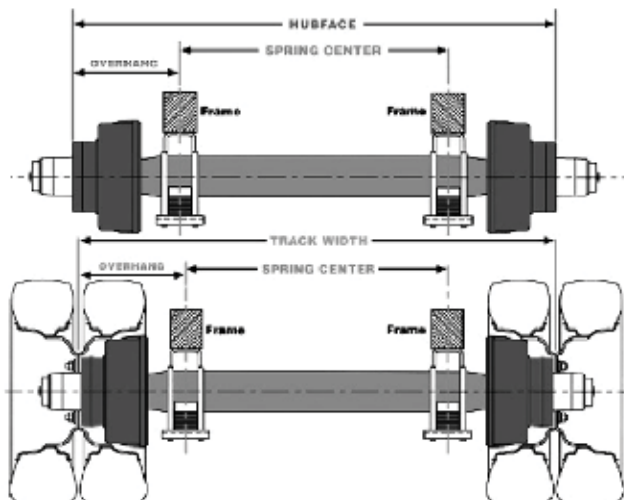
UPGRADE OPTIONS:

- *Adjustable Suspension
- *Park feature available on hydraulic brakes
- *ABS Available hydraulic drum brakes
- *33" Lead Wires
- *32" Braided Wire Sleeves
- *Wired for Electric Brakes

Beam Only

BEAM STANDARD SPINDLE 6100515

Difference Between Hub Face / Track Width and Spring Centers



SINGLE WHEEL

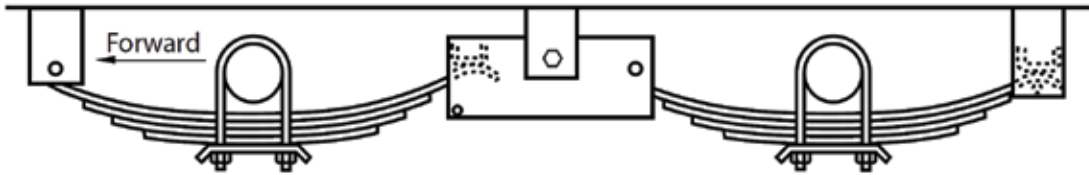
MAXIMUM	31.00"
RECOMMENDED	27.25"
MINIMUM	23.50"

DUAL WHEEL

MAXIMUM	31.00"
RECOMMENDED	28.50"
MINIMUM	26.00"

*Must specify "Old Style Spindle" when replacing axles or beams built before August 2009.

SPRING AXLE • 10,000 LBS. GENERAL DUTY



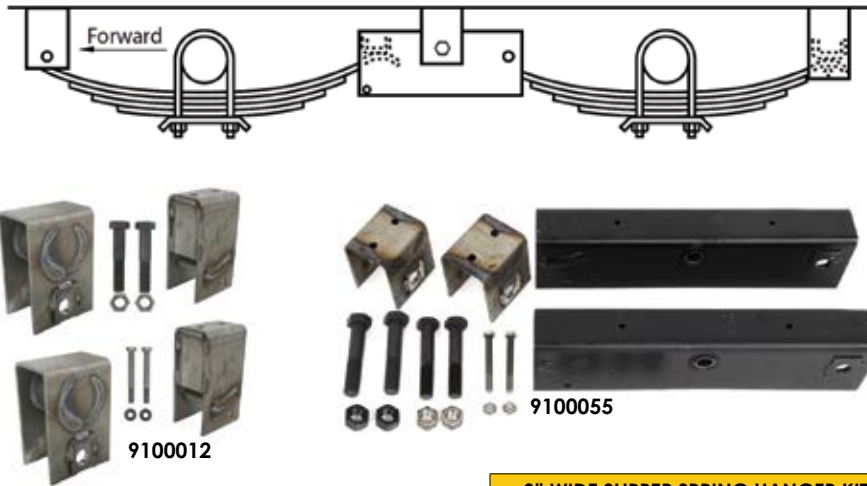
2-1/2" WIDE SLIPPER SPRING HANGER KITS FOR 10K GD AXLES

				QUANTITY INCLUDED IN KIT				
				ITEM NO.	9100089	9100090	9100091	
HANGER KIT COMPONENTS				ID NO.	HAP-158-00	HAP-258-01	HAP-258-02	HAP-258-03
ITEM NO.	ID NO.	DESCRIPTION	HEIGHT	SINGLE	38.00	42.30	TANDEM AXLE SPACING 48.50	
9000283	030-061-01	REAR HANGER	4.500"	2	-	-	-	
9000320	028-074-02	FRONT HANGER	5.250"	2	-	-	-	
9000321	029-042-02	CENTER HANGER	4.500"	-	2	2	2	
9100089-02	013-139-02	EQUALIZER 38.00" SPACING		-	1	-	-	
9100090-03	013-140-03	EQUALIZER 42.25" SPACING		-	-	1	-	
9100091-02	013-141-03	EQUALIZER 48.50" SPACING		-	-	-	1	
9000280	007-264-00	SPRING EYE HEX BOLT 3/4" DRY		2	2	2	2	
9000138	006-113-00	LOCKNUT		2	2	2	2	
9000013	007-169-00	EQUALIZER BOLT 1" DRY		-	2	2	2	
9000136	006-112-00	LOCKNUT		-	2	2	2	

See Suspension Section, page D-13 for more specific details.

SPRING AXLE • 10,000-15,000 LBS. HEAVY DUTY

Suspension Options



3" WIDE SLIPPER SPRING HANGER KITS FOR 10K - 15K AXLES

HANGER KIT COMPONENTS				QUANTITY INCLUDED IN KIT			
				ITEM NO.	9100012	9100006	9100055
ITEM NO.	ID NO.	DESCRIPTION	HEIGHT	SINGLE	38.00	42.30	TANDEM AXLE SPACING 48.50
9000111	030-066-01	REAR HANGER	6.630"	2	-	-	-
9000112	028-067-04	FRONT HANGER	6.250"	2	-	-	-
9000296	029-043-02	CENTER HANGER	4.120"	-	2	2	2
9000083	013-107-07	EQUALIZER 38.00" SPACING		-	2	-	-
9000082	013-108-03	EQUALIZER 42.25" SPACING		-	-	2	-
9000085	013-109-03	EQUALIZER 48.50" SPACING		-	-	-	2
9000014	007-095-00	SPRING KEEPER BOLT		2	2	2	2
9000137	006-466-00	LOCKNUT		2	2	2	2
9000013	007-169-00	SPRING EYE BOLT		2	2	2	2
9000136	006-112-00	LOCKNUT		2	2	2	2
9000012	007-170-00	EQUALIZER BOLT DRY		-	2	2	2
9000135	006-072-00	LOCKNUT		-	2	2	2

See Suspension Section, page D-14 for more specific details.

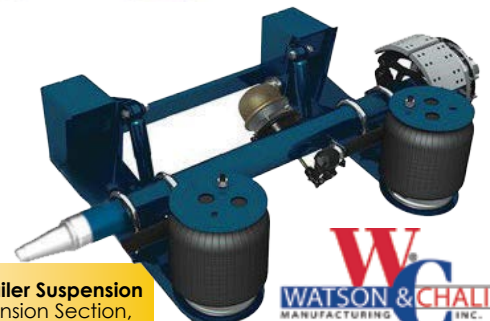
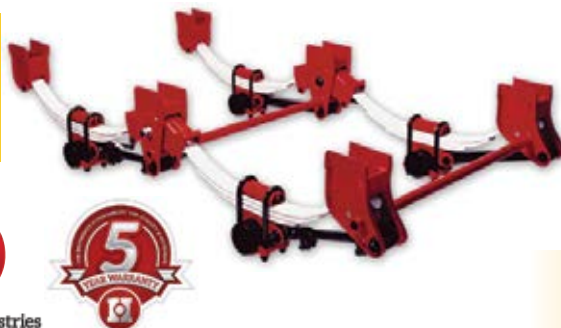
Dexter Heavy Duty Suspension System (HDSS)

See Suspension Section, page D-15 for details.



HUTCH 9700 Series Trailer Suspension System

See Suspension Section, page D-16 for details.



Air-Ride Trailer Suspension
See Suspension Section, page D-18 for details.



SPRING AXLE • 10,000 LBS. HEAVY DUTY

Axle Options



For illustration only: (Back) 10,000 LBS Heavy Duty Oil Bath Air Brake Axle Shown with Slipper Springs; (Front) Drum Brake Axle.

10,000 LBS HEAVY DUTY SUSPENSION KITS

ITEM NO.	ID NO.	AXLE SPACING	DESCRIPTION
9100012	HAP-103-00	Single Axle	SINGLE AXLE HANGER & ATTACHING PARTS
9100006	HAP-203-01	38.00"	*MULTI-AXLE CONVERSION KIT
9100055	HAP-203-02	42.25"	*MULTI-AXLE CONVERSION KIT
9100005	HAP-203-03	48.50"	*MULTI-AXLE CONVERSION KIT

* This kit must be added to a single to create a Tandem. Two kits must be added to a single to create a Triple.

ADD SPRINGS, U-BOLT AND AXLE TIE PLATE PER AXLE

ITEM NO.	ID NO.	CAPACITY	LENGTH	LEAVES	WIDTH	TYPE
6159790	72-80-1	5,000	30.00"	5	2.50"	SLIPPER
6159791	72-43-1	5,000	30.00"	5	3.00"	SLIPPER
6159792	72-44-1	6,000	30.00"	6	3.00"	SLIPPER
6159793	72-45-1	7,500	30.00"	7	3.00"	SLIPPER

AXLE	865
IDLER OIL BATH	6151520
ELECTRIC OIL BATH	6151521
DUO-SERVO HYDRAULIC OIL BATH	6151522
DUO-SERVO HYDRAULIC OIL BATH W/ ABS PACKAGE	6151523
HYDRAULIC DISC BRAKE OIL BATH	6151524
HYDRAULIC DISC BRAKE OIL BATH W/ ABS PACKAGE	6151525
AIR BRAKE OIL BATH	6151526
AIR BRAKE OIL BATH WITH ABS PACKAGE	6151527
AIR BRAKE WITH PARK OIL BATH	6151528
AIR BRAKE WITH PARK OIL BATH WITH ABS PACKAGE	6151529

Beam Only

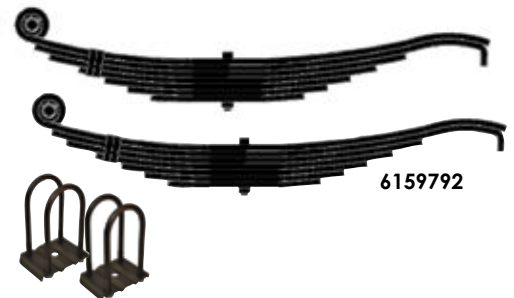
STANDARD BEAM W/ FLANGE	6100516
AIR BRAKE BEAM W/SPIDERS	6100517

STANDARD FEATURES:

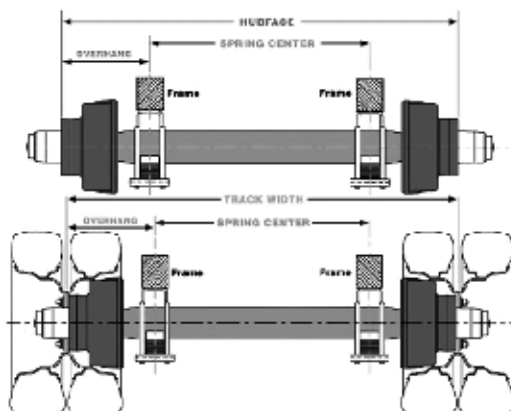
- *12.25" X 4" Brake
- *5/8"-18 Press-In Wheel Studs and Nuts
- *5.00"OD x 0.250" Thick Tube
- *865 Bolt Pattern with 4.75" Pilot
- *395S Inner Bearings & 387A Outer Bearings
- *Forward Self-Adjusting Brakes
- *Track Width up to 80"
- *7-Bolt Brake Flange
- *Air Brake Cam Shaft Lengths 16-3/8", 21-1/8", or 22-5/16"

UPGRADE OPTIONS:

- *Adjustable Suspension
- *5.00"OD x 0.440" Thick Tube
NOTE: 0.440" Tube required for Air-Ride
- *Park feature available on hydraulic brakes
- *ABS Available
- *Special Cam Lengths for Air Brakes
- *Auto Slack Adjusters & Spring Brakes
- *Wired for Electric Brakes



Difference Between Hub Face / Track Width and Spring Centers



	SINGLE WHEEL
MAXIMUM	30.50"
RECOMMENDED	28.25"
MINIMUM	25.50"

	DUAL WHEEL
MAXIMUM	31.00"
RECOMMENDED	28.50"
MINIMUM	26.00"

*Must specify "Old Style Spindle" when replacing axles or beams built before August 2009.

SPRING AXLE • 12,000 LBS. HEAVY DUTY

Axles & Axle Components



For illustration only: (Back) 12,000 LBS Heavy Duty Oil Bath Disc Brake Axle Shown with Slipper Springs; (Front) Drum Brake Axle.

AXLE	LOW PROFILE		HIGH PROFILE	
	865	865	865	865
ELECTRIC OIL BATH	6151541	6151540		
DUO-SERVO HYDRAULIC OIL BATH	6151546	6151544		
DUO-SERVO HYDRAULIC OIL BATH WITH ABS PACKAGE	-	6151545		
HYDRAULIC DISC BRAKE OIL BATH	n/a	6151542		
HYDRAULIC DISC BRAKE OIL BATH WITH ABS PACKAGE	n/a	6151543		
AIR BRAKE OIL BATH	6151549	6151547		
AIR BRAKE OIL BATH WITH ABS PACKAGE	6151550	6151548		
AIR BRAKE WITH PARK OIL BATH	6151553	6151551		
AIR BRAKE WITH PARK OIL BATH WITH ABS PACKAGE	6151556	6151552		

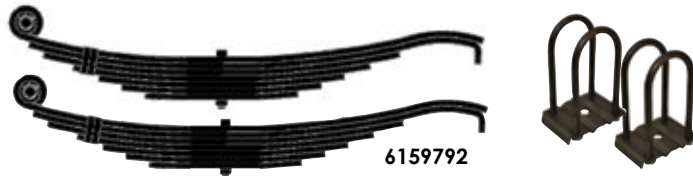
STANDARD FEATURES:
*12.25" X 5" Brake
*5/8"-18 Press-In Wheel Studs and Nuts
*5.00"OD x 0.440" Thick Tube
*865 Bolt Pattern with 4.75" Pilot
*3984 Inner Bearings & 28682 Outer Bearings
*Forward Self-Adjusting Brakes
*Track Width up to 80"
*7-Bolt Brake Flange
*Standard High-Profiles for 16"-16-1/2" Wheels
*Air Brake Cam Shaft Lengths 16-3/8" or 21-1/8"

ADD SPRINGS, U-BOLT AND AXLE TIE PLATE PER AXLE						
ITEM NO.	ID NO.	CAPACITY	LENGTH	LEAVES	WIDTH	TYPE
6159791	72-43-1	5,000	30.00"	5	3.00"	SLIPPER
6159792	72-44-1	6,000	30.00"	6	3.00"	SLIPPER
6159793	72-45-1	7,500	30.00"	7	3.00"	SLIPPER

UPGRADE OPTIONS:
*Adjustable Suspension
*Park feature available on hydraulic brakes
*ABS Available
*Special Cam Lengths for Air Brakes
*Auto Slack Adjusters & Spring Brakes
*Wired for Electric Brakes
*Low-Profile Configuration for 14-1/2" Wheels

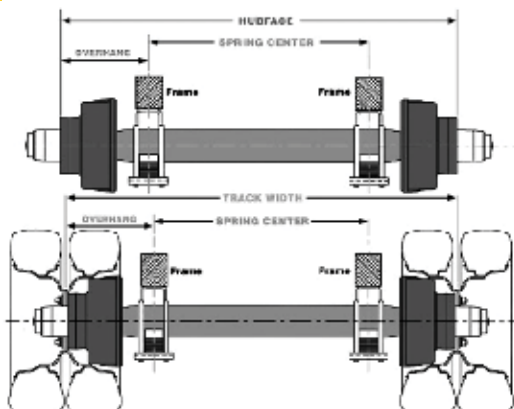
12,000 LBS HEAVY DUTY SUSPENSION KITS			
ITEM NO.	ID NO.	AXLE SPACING	DESCRIPTION
9100012	HAP-103-00	SINGLE AXLE	SINGLE AXLE HANGER & ATTACHING PARTS
9100006	HAP-203-01	38.00"	*MULTI-AXLE CONVERSION KIT
9100055	HAP-203-02	42.25"	*MULTI-AXLE CONVERSION KIT
9100005	HAP-203-03	48.50"	*MULTI-AXLE CONVERSION KIT

* This kit must be added to a single to create a Tandem. Two kits must be added to a single to create a Triple.



Beam Only	
STANDARD BEAM W/ FLANGE	6100394
AIR BRAKE BEAM W/SPIDERS	6100395

Difference Between Hub Face and Spring Centers



	SINGLE WHEEL	
	LOW PROFILE	HIGH PROFILE
	MAXIMUM	41.00"
RECOMMENDED	36.75"	33.50"
MINIMUM	32.75"	26.00"

	DUAL WHEEL	
	LOW PROFILE	HIGH PROFILE
	MAXIMUM	41.00"
RECOMMENDED	37.25"	33.75"
MINIMUM	33.50"	26.50"

SPRING AXLE 15,000 LBS. HEAVY DUTY

Axles & Axle Components



For illustration only: 15,000 LBS Heavy Duty Oil Bath Drum Brake Axle Shown with Slipper Springs.

AXLE	8-275MM
ELECTRIC OIL BATH	6151565
DUO-SERVO HYDRAULIC OIL BATH	6151566
DUO-SERVO HYDRAULIC OIL BATH WITH ABS PACKAGE	6151567
AIR BRAKE OIL BATH	6151568
AIR BRAKE OIL BATH WITH ABS PACKAGE	6151569
AIR BRAKE WITH PARK OIL BATH	6151570
AIR BRAKE WITH PARK OIL BATH WITH ABS PACKAGE	6151571

Available in dual wheel configuration only.

ADD SPRINGS, U-BOLT AND AXLE TIE PLATE PER AXLE						
ITEM NO.	ID NO.	CAPACITY	LENGTH	LEAVES	WIDTH	TYPE
6159791	72-43-1	5,000	30.00"	5	3.00"	SLIPPER
6159792	72-44-1	6,000	30.00"	6	3.00"	SLIPPER
6159793	72-45-1	7,500	30.00"	7	3.00"	SLIPPER

15,000 LBS HEAVY DUTY SUSPENSION KITS			
ITEM NO.	ID NO.	AXLE SPACING	DESCRIPTION
9100012	HAP-103-00	SINGLE AXLE	SINGLE AXLE HANGER & ATTACHING PARTS
9100006	HAP-203-01	38.00"	*MULTI-AXLE CONVERSION KIT
9100055	HAP-203-02	42.25"	*MULTI-AXLE CONVERSION KIT
9100005	HAP-203-03	48.50"	*MULTI-AXLE CONVERSION KIT

* This kit must be added to a single to create a Tandem. Two kits must be added to a single to create a Triple.

STANDARD FEATURES:
*12.25" X 5" Brake
*M22x1.5 Wheel Studs and Nuts
*5.00"OD x 0.440" Thick Tube
*8-275mm Bolt Pattern Hub-Piloted
*3984 Inner Bearings & 28682 Outer Bearings
*Forward Self-Adjusting Brakes
*Track Width up to 80"
*7-Bolt Brake Flange
*Air Brake Cam Shaft Lengths 16-3/8" or 21-1/8"

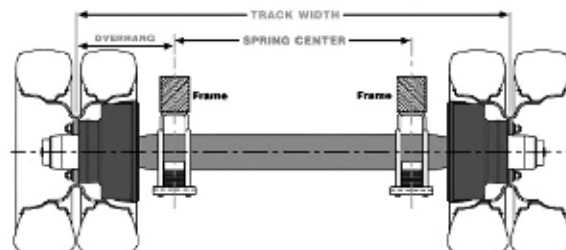
UPGRADE OPTIONS:
*Adjustable Suspension
*Park feature available on hydraulic brakes
*ABS Available
*Special Cam Lengths for Air Brakes
*Auto Slack Adjusters & Spring Brakes
*Wired for Electric Brakes

Beam Only	
STANDARD BEAM W/ FLANGE	6100551
AIR BRAKE BEAM W/SPIDERS	6100393



Difference Between Hub Face and Spring Centers

	DUAL WHEEL
MAXIMUM	33.00"
RECOMMENDED	31.00"
MINIMUM	29.00"



SPRING AXLE • 22,500-27,500 LBS. HEAVY DUTY

Axles & Axle Components



1

For illustration only: 22,500 LBS 8-275mm Hub Piloted Outboard Drum with bearings, seals and caps. 12-1/4" x 7-1/2" Air Brake with Manual Slack Adjusters. Air Brake Chambers not shown. For use with 17.5" or 19.5" 221mm Piloted Disc Wheels.



2

For illustration only: 22,500 LBS 10-8.75" Stud Piloted Inboard Drum with bearings, seals and caps. 12-1/4" x 7-1/2" Air Brake with Auto Slack Adjusters and Service Brake Air Chambers shown (not included with item numbers below.) For use with 15" or 17.5" Ball Seat Mounted Steel Disc Wheels.



4

For illustration only: 22,500 LBS 10-11.25" Hub Piloted Outboard Drum with bearings, seals and caps. 16-1/2" x 7" Air Brake with Manual Slack Adjusters. Air Brake Chambers are not shown. For use with 20", 22.5" or 24.5" 220mm Piloted Disc Wheels.



3

For illustration only: 22,500 LBS 10-11.25" Stud Piloted Inboard Drum with bearings, seals and caps. 16-1/2" x 7" Air Brake with Auto Slack Adjusters and Service Brake Air Chambers shown (not included with item numbers below.) For use with 20", 22.5" or 24.5" Ball Seat Mounted Steel Disc Wheels.

REF NO.	DESCRIPTION	22.5K	25K
		.500" LIGHT WALL	.620" MEDIUM WALL
12.25" X 7.5" BRAKE			
1	8-275MM HUB PILOTED - OUTBOARD DRUM	6159804	6159806
	8-275MM ABS EQUIPPED	6159805	6159807
2	10-8.75 STUD PILOTED - INBOARD DRUM	6151652	6151661
	10-8.75 STUD PILOTED - INBOARD DRUM ABS EQUIPPED	6151653	6151662
16.5" X 7" BRAKE			
3	10-11.25 STUD PILOTED - INBOARD DRUM	6151656	6151665
	10-11.25 STUD PILOTED - OUTBOARD DRUM	6151657	6151666
	10-11.25 STUD PILOTED - OUTBOARD DRUM ABS EQUIPPED	6151658	6151667
4	10-11.25 HUB PILOTED - OUTBOARD DRUM	6155318	CALL FOR PRICING

These part numbers are base items that alone do not meet minimum D.O.T. Standards for Highway Use. For Highway Use, always add at least, Auto Slack Adjusters and T30/30 Spring Brakes, and ensure one axle is ABS Equipped. See chart on page A-8 for ordering detail. See suspension options on pages D15-D20.

UPGRADE OPTIONS:

- *Track Widths available from 48" to 124"
- *T30/30 Spring Air Brake Chamber
- *Auto Slack Adjusters
- *5.00"OD x 0.620" Thick Tube (Medium Wall) is minimum allowable for Air-Ride Suspension.
- *Park feature available on hydraulic brakes
- *ABS Available
- *Available in 3-Spoke and 5-Spoke Wheel & Drum.
- *Available in 27.5K 5.00" x 0.750" Thick Wall Heavy Duty Capacity
- *Stemco Voyager or Stemco Guardian Seals
- *Complete ABS Package (Sensors, Blocks & Tone Rings)
- *Special CAM Lengths
- *Hub-Piloted Outboard Hubs
- *Special Studs for Aluminum Wheels

STANDARD FEATURES:

- *3/4"-16 Shoulder Wheel Studs and Nuts for Stud Piloted
 - *M22x1.5 Wheel Studs and Nuts for Hub Piloted
 - *5.00"OD x 0.500" Thick Tube
 - *HM218248 Inner Bearings & HM212049 Outer Bearings
 - *Manual Slack Adjusters+
 - *T30 Service Brake Chamber+
 - *Track Width up to 71.5"
 - *National Brand Seals
 - *Standard CAM Lengths 21-1/8" and 22-5/16" (for 12-1/4" Brake) or 20-3/8" and 23-7/16" (for 16-1/2" Brake)
 - +Must add Auto Slack Adjusters and T30/30 Spring Brake to meet minimum D.O.T. Standards for Highway Use.
- NOTE: One axle must be ABS to meet minimum D.O.T. Standards for Highway Use.**



SAVE TIME, SAVE MONEY WITH



- No more inner and outer bearings to repack
- Pre-lubricated and resistant to contamination
- Sealed for life, no bearing maintenance
- Increased durability and reliability
- No replacing seals when checking brakes
- Pre-set adjustment allows for easy installation
- Human error is virtually eliminated during adjustment
- Five year or 100,000 mile limited warranty

WHAT IS NEV-R-LUBE®?

Dexter's Nev-R-Lube® bearings are comprised of opposed tapered roller bearing cones sealed inside of a precision ground, one-piece double cup arrangement. These bearings are designed with a small amount of axial end play. The end play is essential to the longevity of the bearing's service life. Nev-R-Lube® is not designed for immersion in water, such as boat trailer use.



42mm SEALED CARTRIDGE BEARINGS

- D52 and D60 leaf spring axles
- #11 and #12 Torflex® axles
- Straight spindles only
- Up to 6,000 lbs. capacity
- 6 on 5.50" bolt circle hub-drums
- 12" x 2" brakes
- Use only zero offset wheels

50mm SEALED CARTRIDGE BEARINGS

- D70, D72, and D80 leaf spring axles
- #12, #12V, and #13 Torflex® axles
- Straight spindles only
- Up to 8,000 lbs. capacity
- 8 on 6.50" bolt circle hub-drums
- 12" x 2", 12-1/4" x 3-3/8", and 12-1/4" x 2-1/2" brakes
- Can be used with zero to 1/2" inset wheels at 7,000 lb. ratings
- Zero offset or 0.19" inset wheels only at 8,000 lbs. capacity



GEARED FOR INNOVATION SINCE 1960

Nev-R-Lube® is subject to the maintenance and inspection procedures as specified in Dexter Axle's current publication, "Operation Maintenance Service Manual".





Extreme Duty Torflex® Features

- Internal bronze bushing with a steel housing that is welded to the tube end
- Independent wheel suspension and self-damping action
- Heat-treated solid steel inner bar
- Forged torsion arm for maximum strength
- Easy installation with less overall maintenance
- Single, tandem, or triple (#13T only) axle assemblies
- Five-year limited warranty on suspension

Extreme Duty Torflex® Specifications

- Bearing lubrication options: E-Z Lube®, Nev-R-Lube®, or Oil (7,000 lbs. and above)
- 7,000, 8,000 and 10,000 lbs. capacities, manufactured to the customer's exact requirements
- Ride heights available: 45° down, 32° down, 22.5° down, 10° down, 0°, 10° up, and 22.5° up
- High profile only brackets with optional mounting brackets available
- CAUTION: Triple axle assemblies are only recommended with the use of Dexter's #13T model (8,000 lbs. capacity)



Grease zerk provides lubrication around the bushing. Groove on the ID of the bushing housing distributes grease along the load bearing surface.

Bushing supports a portion of the vertical load between the inner bar and axle tube providing less stress to the rubber cords.



GEARED FOR INNOVATION SINCE 1960



TORFLEX® RUBBER TORSION SUSPENSION AXLES

900 lbs. - 12,000 lbs. • Painted or Galvanized



For illustration only: #9 2.2K Grease Spindle 5-Bolt Idler Torsion Axle.



For illustration only: #10 3.5K E-Z Lube Spindle 5-Bolt Idler Torsion Axle Galvanized.



For illustration only: #13D 10KHD Oil Bath 8-Bolt Brake Torsion Axle with AirFlex® Suspension.

STANDARD FEATURES:

- *Independent wheel suspension and self-damping action
- *Rubber cushioning eliminates metal-to-metal contact
- *Less transfer of road shock for better cargo protection
- *Heat-treated solid steel inner bar
- *Forged torsion arm for maximum strength
- *Rubber cords compounded for dependability
- *Axle can be used as a load carrying cross member
- *Easy installation with less overall maintenance
- *High profile availability for maximum road clearance
- *Single, tandem, triple and extreme duty axle assemblies
- *Ten-year limited warranty
- *ISO 9001 Certified
- *Some models available with a removable spindle.

SPECIFICATIONS:

- *Bearing lubrications options: E-Z Lube® Nev-R-Lube® or Oil Bath on 7,000 lbs Capacity and above.
- *600 - 12,000 lbs Capacity manufactured to the 1/4" increments.
- *Ride heights available: 45° down, 32° down, 22.5° down, 10° down, Zero, 10° up, and 22.5° up.
- *High and low profile brackets with optional mounting brackets available.
- *CAUTION: Triple axle assemblies are not recommended for Torflex® axles unless triple designation is specified, 12T or 13T.

What is TORFLEX®?

The Torflex® Suspension System is a torsion arm type suspension which is completely self contained within the axle tube. It attaches directly to the trailer frame using brackets which are an integral part of the axle assembly. The Torflex® Axle provides improved suspension characteristics relative to leaf spring axles through the unique arrangement of a steel torsion bar surrounded by four rubber cords encased in the main structural member of the axle beam. The wheel/hub spindle is attached to a lever, called the torsion arm, which is fastened to the rubber encased bar. As load is applied, the bar rotates causing a rolling/compressive resistance in the rubber cords. This rotating action provides the same functionality as conventional sprung axles with several operating advantages in cluding independent suspension. Except for periodic inspection of the fasteners used to attached the Torflex® Axle to the vehicle frame, no other suspension maintenance is required on Torflex® Axles. They are, of course, subject to the maintenance and inspection procedures regarding brakes, hubs, bearings, seals, wheels, and tires as outlined in Dexter's current Operation Maintenance Service Manual, available at www.dexteraxle.com.

See information about a removable spindle option for the Torflex® Axle on page A-15.



TORFLEX® TORSION SUSPENSION AXLE • #9 2.2K



For illustration only: TF9 2.2K Grease Spindle
545 Bolt Pattern Idler Torsion Axle.



#9 2.2K TORFLEX® AXLES	440	545 (5.5")	545 (6.5")
DESCRIPTION		8-12" Wheels	13-15" Wheels
IDLER GREASE	6152000	6152006	6156637
IDLER EZ-LUBE	6152001	6152007	6156638
ELECTRIC GREASE	6152002	N/A	6152008
ELECTRIC EZ-LUBE	6152003	N/A	6152009
HYDRAULIC UNI SERVO GREASE	6152004	N/A	6152010
HYDRAULIC UNI SERVO EZ-LUBE	6152005	N/A	6152011



4 Wheel Studs
on 4" Centers



5.5" Star Hub for 8-12"
Wheels 5 Wheel Studs
on 4-1/2" Centers



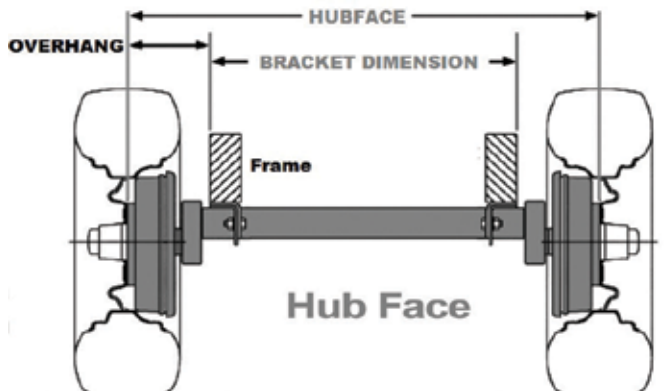
6.5" Hub for 13-15"
Wheels 5 Wheel
Studs on 4-1/2"
Centers

STANDARD FEATURES:
*1/2"-20 Press-In Wheel Studs and Nuts
*1-1/16" Spindles
*L44649 Inner & Outer Bearings
*Idlers are without a brake flange.
*Hub Face up to 96"
*2.17"OD Square Tube
*7" Brake

UPGRADE OPTIONS:
*Removable Spindle (See page A-15)
*Side Mount Brackets
*High Profile Brackets
*Brake Flange
*Hub Face over 96"

See page A-65 for more detail about Marine Torflex® Axles.

Difference Between Hub Face and Outside Bracket



	STANDARD SPINDLE
MAXIMUM	21.75"
MINIMUM	13.00"

	SHORT SPINDLE
MAXIMUM	21.75"
MINIMUM	12.00"

TORFLEX® TORSION SUSPENSION AXLE • #9 2.2K

Axles & Axle Components

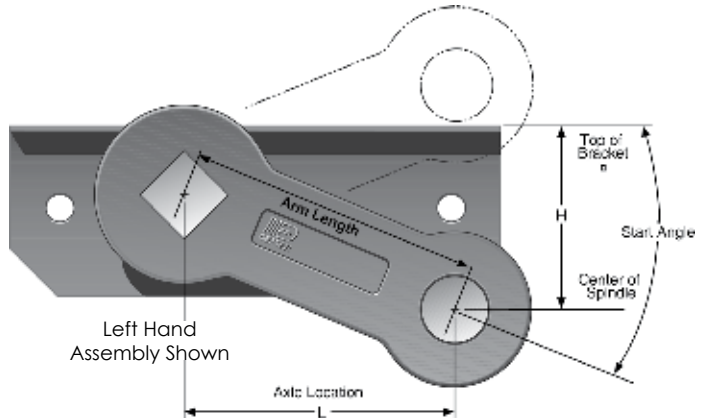


Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	5.46	4.24	3.52	5.54	2.39	5.88
	High	6.33	4.24	4.39	5.54	3.26	5.88
32° Down	Low	4.40	5.09	2.21	5.92	1.04	6.00
	High	5.27	5.09	3.08	5.92	1.91	6.00
22.5° Down	Low	3.52	5.54	1.22	6.00	0.05	5.88
	High	4.39	5.54	2.09	6.00	.92	5.88
10° Down	Low	2.26	5.91	-0.08	5.86	-1.20	5.49
	High	3.13	5.91	0.79	5.86	-0.33	5.49
0°	Low	1.22	6.00	-1.08	5.54	-2.11	4.99
	High	2.09	6.00	-0.21	5.54	-1.24	4.99
10° Up	Low	0.18	5.91	-2.00	5.06	-2.93	4.33
	High	1.05	5.91	-1.13	5.06	-2.06	4.33
22.5° Up	Low	-1.08	5.54	-3.02	4.24	-3.77	3.33
	High	-0.21	5.54	-2.15	4.24	-2.90	3.33

Beam Only

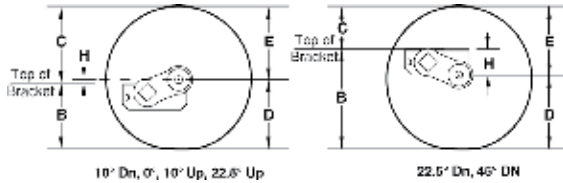
BEAM STANDARD SPINDLE	6100534
BEAM EZ-LUBE SPINDLE	6100535

Dimensions are for top mount only. Side mount is 0.18" higher. High Profile brackets are 0.88" higher. Allow 3" bump clearance from full load.



NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



Start Angle

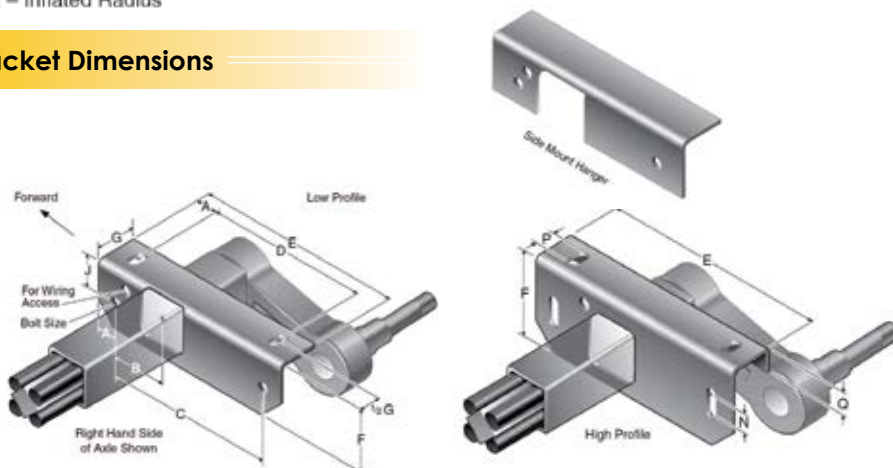
Tire	* D	** E	45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
			H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
ST175/80R13	11.2	12.0	3.5	14.7	8.5	1.2	12.4	10.8	-0.1	11.1	12.1	-1.1	10.1	13.1	-2.0	9.2	14.0	-3.0	8.2	15.0
4.80-8	7.9	8.8	3.5	11.4	5.3	1.2	9.1	7.6	-0.1	7.8	8.9	-1.1	6.8	9.9	-2.0	5.9	10.8	-3.0	4.9	11.8
4.80-12	9.5	10.8	3.5	13.0	7.3	1.2	10.7	9.6	-0.1	9.4	10.9	-1.1	8.4	11.9	-2.0	7.5	12.8	-3.0	6.5	13.8
20.5 x 8.0-10	9.7	10.8	3.5	13.2	7.3	1.2	10.9	9.6	-0.1	9.6	10.9	-1.1	8.6	11.9	-2.0	7.7	12.8	-3.0	6.7	13.8

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#9 Bracket Dimensions

	Low	High
A	1.00	1.00
B	2.38	2.38
C	8.00	8.00
D	7.75	7.75
E	10.00	10.00
F	2.88	3.75
G	2.00	2.00
J	1.57	1.57
N	----	.86
P	.94	.94
Q	1.00	1.00
Bolt Size	1/2" bolt	
Tube Size	2.17	2.17

TORFLEX® TORSION SUSPENSION AXLE • #10 3.5K =

Axles & Axle Components



For illustration only: TF10 3.5K Grease Spindle 545 Bolt Pattern Brake Drum Torsion Axle.

#10 3.5K TORFLEX® AXLES	545, 5475, 550 & 555	655
IDLER GREASE	6152012	6152046
IDLER EZ-LUBE	6152013	6152047
ELECTRIC GREASE	6152014	6152048
ELECTRIC EZ-LUBE	6152015	6152049
HYDRAULIC UNI SERVO GREASE	6152018	6152051
HYDRAULIC UNI SERVO EZ-LUBE	6152020	6152053
HYDRAULIC DISC BRAKE GREASE*	6152016	N/A
HYDRAULIC DISC BRAKE EZ-LUBE*	6152017	N/A
HYDRAULIC FREEBACKING GREASE	6152019	6152052
HYDRAULIC FREEBACKING EZ-LUBE	6152021	6152055

*Hydraulic Disc Brake is only available with a 545 Bolt Pattern.



For illustration only: TF10 3.5K EZ-Lube Spindle 545 Bolt Pattern GAL-DEX® Coated Brake Drum Hot Dipped Galvanized Torsion Axle

See page A-68 for more detail about Marine Torflex® Axles.

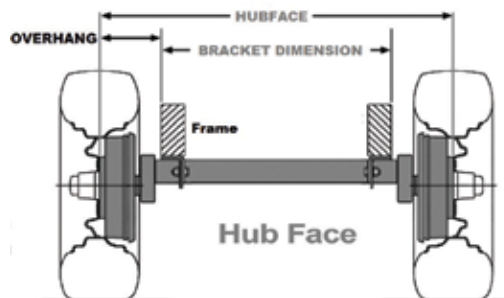
STANDARD FEATURES:

- *1/2"-20 Press-In Wheel Studs and Nuts
- *#84F Spindles
- *L68149 Inner & L44649 Outer Bearings
- *Hub Face up to 96"
- *2.62"OD Square Tube
- *10" Brake

UPGRADE OPTIONS:

- *Removable Spindle (See page A-15)
- *Side Mount Brackets
- *High Profile Brackets
- *Nev-R-Adjust Brakes
- *Hub Face over 96"
- *Park Feature is available with Electric or Hydraulic Brakes

Difference Between Hub Face and Outside Bracket



STANDARD SPINDLE

MAXIMUM	23.50"
DISC BRAKE	13.25"
MINIMUM	12.75"

TORFLEX® TORSION SUSPENSION AXLE • #10 3.5K

Axles & Axle Components



For illustration only: TF10 3.5K Galvanized EZ-Lube Spindle Marine Torsion Axle Replacement Beam.

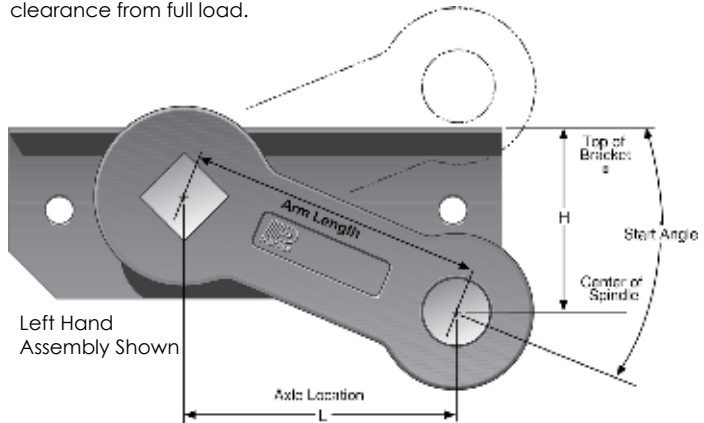


Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	5.73	4.24	3.79	5.54	2.66	5.88
	High	6.55	4.24	4.61	5.54	3.48	5.88
32° Down	Low	4.67	5.09	2.48	5.92	1.31	6.00
	High	5.49	5.09	3.30	5.92	2.13	6.00
22.5° Down	Low	3.79	5.54	1.49	6.00	0.32	5.88
	High	4.61	5.54	2.31	6.00	1.14	5.88
10° Down	Low	2.53	5.91	0.19	5.86	-0.93	5.49
	High	3.35	5.91	1.01	5.86	-0.11	5.49
0°	Low	1.49	6.00	-0.81	5.54	-1.84	4.99
	High	2.31	6.00	0.01	5.54	-1.02	4.99
10° Up	Low	0.45	5.91	-1.73	5.06	-2.66	4.33
	High	1.27	5.91	-0.91	5.06	-1.84	4.33
22.5° Up	Low	-0.81	5.54	-2.75	4.24	-3.50	3.33
	High	0.01	5.54	-1.93	4.24	-2.68	3.33

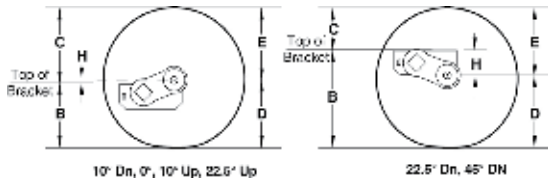
Beam Only

BEAM STANDARD SPINDLE	6100536
BEAM EZ-LUBE SPINDLE	6100537

Dimensions are for top mount only. Side mount is 0.18" higher. High Profile brackets are 0.88" higher. Allow 3" bump clearance from full load.



Full Load Dimensions



NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Start Angle

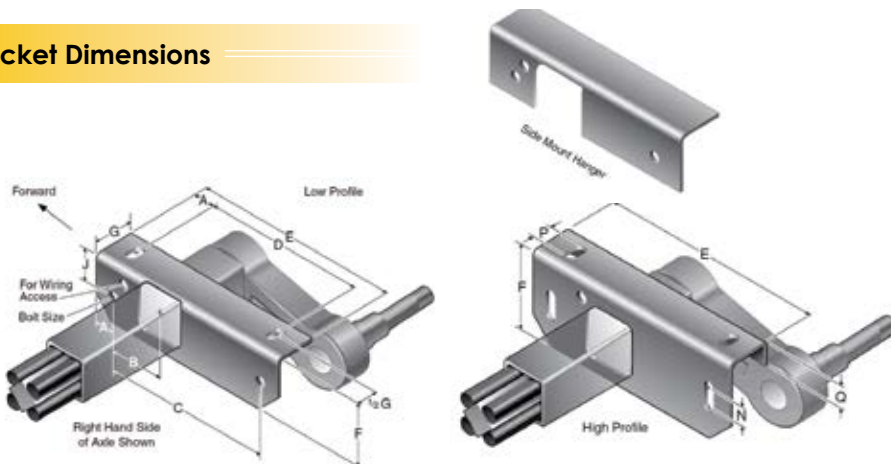
Tire	* **		45° Down			22.5° Down			10° Down			0°		10° Up			22.5° Up			
	D	E	H	B	C	H	B	C	H	B	C	H	C	H	B	C	H	B	C	
ST175/80R13	11.2	12.0	3.8	15.0	8.2	1.5	12.7	10.5	0.2	11.4	11.8	-0.8	10.4	12.8	-1.7	9.5	13.7	-2.8	8.4	14.8
ST205/75R14	12.1	13.1	3.8	15.9	9.3	1.5	13.6	11.6	0.2	12.3	12.9	-0.8	11.3	13.9	-1.7	10.4	14.8	-2.8	9.3	15.9
ST225/75R15	13.0	14.4	3.8	16.8	10.6	1.5	14.5	12.9	0.2	13.2	14.2	-0.8	12.2	15.2	-1.7	11.3	16.1	-2.8	10.2	17.2

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#10 Bracket Dimensions

	Low	High
A	1.00	1.00
B	2.50	2.50
C	8.00	8.00
D	8.00	8.00
E	10.00	10.00
F	3.43	4.25
G	2.50	2.50
J	1.62	1.62
N	----	1.03
P	----	1.00
Q	----	1.00
Bolt Size	5/8" bolt	
Tube Size	2.62	2.62

TORFLEX® TORSION SUSPENSION AXLE • #11 5.2K-6K

Axles & Axle Components



For illustration only: TF11 5.2K Grease Spindle 655 Bolt Pattern Brake Drum Torsion Axle.



#11 5.2K-6K TORFLEX® AXLES	655	865
IDLER GREASE	6152057	6152074
IDLER EZ-LUBE	6152058	6152075
IDLER OIL BATH	6156705	6152076
ELECTRIC GREASE	6152059	6152077
ELECTRIC EZ-LUBE	6152060	6152078
ELECTRIC OIL BATH	6156706	6152080
ELECTRIC NEV-R-LUBE	6152061	N/A
HYDRAULIC UNI SERVO GREASE	6152065	6152081
HYDRAULIC UNI SERVO EZ-LUBE	6152067	6152083
HYDRAULIC UNI SERVO OIL BATH	6156707	6152087
HYDRAULIC UNI SERVO NEV-R-LUBE	6152068	N/A
HYDRAULIC DUO SERVO GREASE	6152071	6152089
HYDRAULIC DUO SERVO EZ-LUBE	6152072	6152090
HYDRAULIC DUO SERVO OIL BATH	6156708	6152092
HYDRAULIC DUO SERVO NEV-R-LUBE	6152073	N/A
HYDRAULIC DISC GREASE	6152062	6159814
HYDRAULIC DISC EZ-LUBE	6152063	6159815
HYDRAULIC DISC NEV-R-LUBE	6152064	N/A
HYDRAULIC FREEBACKING GREASE	6152066	6152082
HYDRAULIC FREEBACKING EZ-LUBE	6152069	6152085
HYDRAULIC FREEBACKING OIL BATH	6156710	6152088
HYDRAULIC FREEBACKING NEV-R-LUBE	6152070	N/A

STANDARD FEATURES:
*1/2"-20 Press-In Wheel Studs and Nuts
*#42F Spindles
*25580 Inner & LM67048 (655 5.2K), 15123 (655 6K), or 14125A (865) Outer Bearings
*Hub Face up to 96"
*3.03"OD Square Tube
*12" Brake

UPGRADE OPTIONS:
*Removable Spindle
*Side Mount Brackets
*High Profile Brackets
*Nev-R-Adjust Brakes
*Hub Face over 96"
*Park Feature is available with Electric or Hydraulic Brakes
*9/16"-18 Studs, or 865 5/8"-18 Studs
*Nev-R-Lube on 655 Hubs

See page A-71 for more detail about Marine Torflex® Axles.

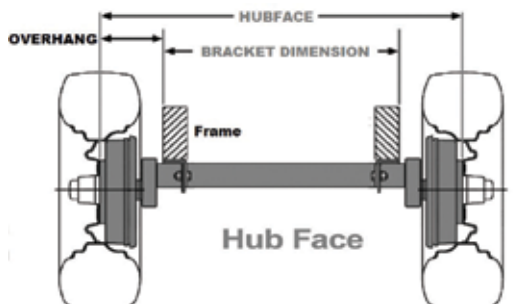


SAVE TIME, SAVE MONEY WITH NEV-R-LUBE®
42mm Sealed Cartridge Bearings.
Available only with 6-stud hubs and use with zero offset wheels.



See advertisement after page A-38 for more details.

Difference Between Hub Face and Outside Bracket



SHORT SPINDLE	
MAXIMUM	20.25"
DISC BRAKE	15.00"
MINIMUM	14.00"

STANDARD SPINDLE	
MAXIMUM	20.25"
DISC BRAKE	15.00"
MINIMUM	15.00"

TORFLEX® TORSION SUSPENSION AXLE • #11 5.2K-6K

Axles & Axle Components



For illustration only: TF11 5.2K Galvanized EZ-Lube Spindle Marine Torsion Axle Replacement Beam.

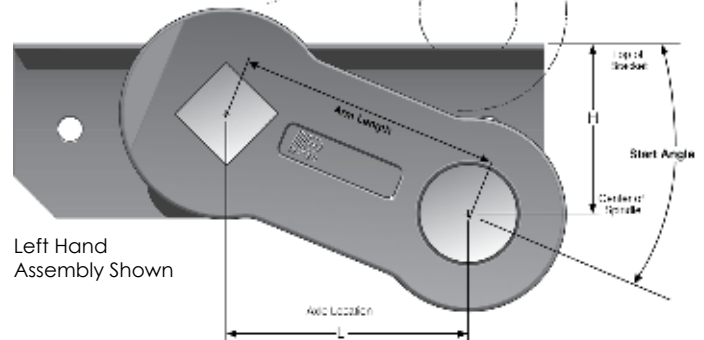


Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	6.01	4.24	4.07	5.54	2.94	5.88
	High	6.76	4.24	4.82	5.54	3.69	5.88
32° Down	Low	4.95	5.09	2.76	5.92	1.59	6.00
	High	5.70	5.09	3.51	5.92	2.34	6.00
22.5° Down	Low	4.07	5.54	1.77	6.00	0.60	5.88
	High	4.82	5.54	2.52	6.00	1.35	5.88
10° Down	Low	2.81	5.91	0.47	5.86	-0.65	5.49
	High	3.56	5.91	1.22	5.86	0.10	5.49
0°	Low	1.77	6.00	-0.53	5.54	-1.56	4.99
	High	2.52	6.00	0.22	5.54	-0.81	4.99
10° Up	Low	0.73	5.91	-1.45	5.06	-2.38	4.33
	High	1.48	5.91	-0.70	5.06	-1.63	4.33
22.5° Up	Low	-0.53	5.54	-2.47	4.24	-3.22	3.33
	High	0.22	5.54	-1.72	4.24	-2.47	3.33

Beam Only

BEAM STANDARD SPINDLE	6100538
BEAM EZ-LUBE SPINDLE	6100539

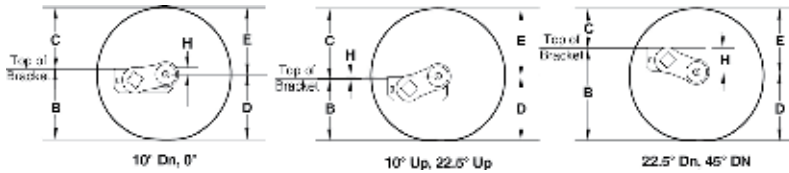
Dimensions are for top mount only. Side mount is 0.25" higher. High Profile brackets are 0.75" higher. Allow 3" bump clearance from full load.



Left Hand Assembly Shown

NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



Start Angle

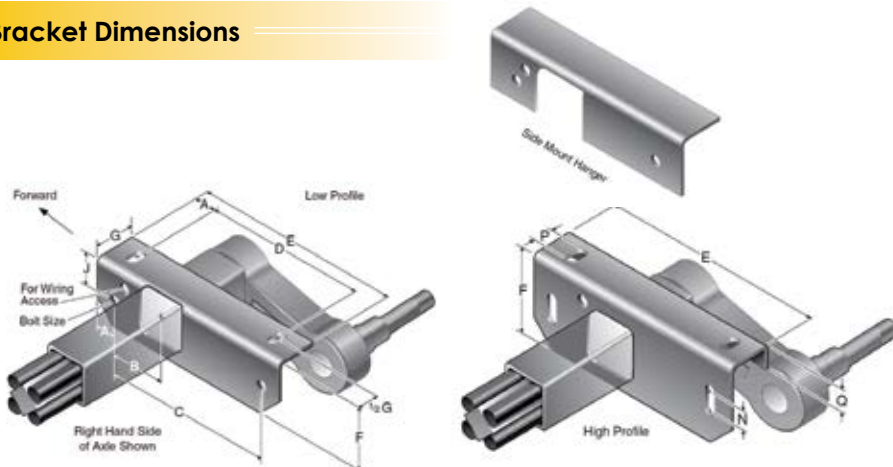
Tire	* **		45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
ST225/75R15	13.0	14.4	4.1	17.1	10.3	1.8	14.8	12.6	0.5	13.5	13.9	-0.5	12.5	14.9	-1.5	11.5	15.9	-2.5	10.5	16.9
LT235/85R16	14.3	15.4	4.1	18.4	11.3	1.8	16.1	13.6	0.5	14.8	14.9	-0.5	13.8	15.9	-1.5	12.8	16.9	-2.5	11.8	17.9
LT225/75R16	13.5	14.9	4.1	17.6	10.8	1.8	15.3	13.1	0.5	14.0	14.4	-0.5	13.0	15.4	-1.5	12.0	16.4	-2.5	11.0	17.4
8.75R16.5LT	13.8	14.8	4.1	17.9	10.7	1.8	15.6	13.0	0.5	14.3	14.3	-0.5	13.3	15.3	-1.5	12.3	16.3	-2.5	11.3	17.3

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions

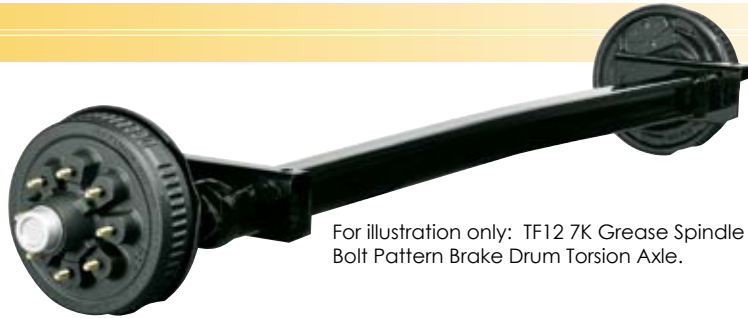


#11 Bracket Dimensions

	Low	High
A	.75	.75
B	3.50	3.50
C	9.50	9.50
D	9.00	9.00
E	11.00	11.00
F	3.91	4.66
G	2.50	2.50
J	1.83	1.83
N	----	1.03
P	----	1.00
Q	----	1.00
Bolt Size	5/8" bolt	
Tube Size	3.03	3.03

TORFLEX® TORSION SUSPENSION AXLE • #12 7K

Axles & Axle Components



For illustration only: TF12 7K Grease Spindle 865 Bolt Pattern Brake Drum Torsion Axle.

#12 7K TORFLEX® AXLES	865	12T TRIPLE APPLICATION
IDLER GREASE	6152123	
IDLER EZ-LUBE	6152124	
IDLER OIL BATH	6152125	
ELECTRIC GREASE	6152126	6154642*
ELECTRIC EZ-LUBE	6152127	6154641*
ELECTRIC OIL BATH	6152129	
ELECTRIC NEV-R-LUBE	6152128	
HYDRAULIC UNI SERVO GREASE	6152130	
HYDRAULIC UNI SERVO EZ-LUBE	6152132	
HYDRAULIC UNI SERVO OIL BATH	6152136	
HYDRAULIC UNI SERVO NEV-R-LUBE	6152133	
HYDRAULIC DUO SERVO GREASE	6152138	
HYDRAULIC DUO SERVO EZ-LUBE	6152139	
HYDRAULIC DUO SERVO OIL BATH	6152141	
HYDRAULIC DUO SERVO NEV-R-LUBE	6152140	
HYDRAULIC DISC GREASE	6153571	
HYDRAULIC DISC EZ-LUBE	6153572	
HYDRAULIC DISC OIL BATH	6153573	
HYDRAULIC FREEBACKING GREASE	6152131	
HYDRAULIC FREEBACKING EZ-LUBE	6152134	
HYDRAULIC FREEBACKING OIL BATH	6152137	
HYDRAULIC FREEBACKING NEV-R-LUBE	6152135	

*12T is the axle required to be used in Triple Axle Configurations. The 12T is available in other lubrications, as an idler, with hydraulic brakes, etc. Ask your Sales Representative for a special quote for your desire Triple Torsion Axle System.

STANDARD FEATURES:
*1/2"-20 Press-In Wheel Studs and Nuts
*#42F Spindles
*25580 Inner & LM67048 (655), 15123 (655 6K), or 14125A (865) Outer Bearings
*Hub Face up to 96"
*3.50"OD Square Tube
*3.88"OD Square Tube on 12T Axles
*12" Brake

UPGRADE OPTIONS:
*Removable Spindle (See page A-15)
*Side Mount Brackets
*High Profile Brackets
*Nev-R-Adjust Brakes
*Hub Face over 96"
*Park Feature is available with Electric or Hydraulic Brakes
*9/16"-18 Studs, or 5/8"-18 Studs
*Nev-R-Lube on 655 Hubs
*UTG (Utility Grade) Hubs available
*AirFlex® Suspension System (See page A-50)



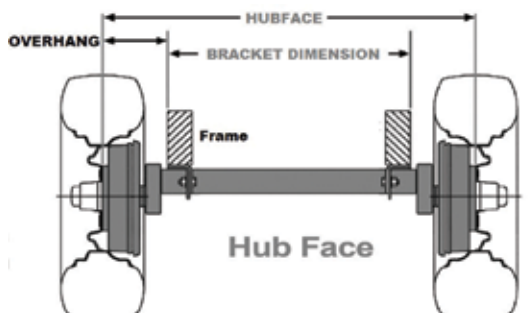
SAVE TIME, SAVE MONEY WITH NEV-R-LUBE®
42mm Sealed Cartridge Bearings.
Available only with 6-stud hubs and use with zero offset wheels.



See advertisement after page A-38 for more details.



Difference Between Hub Face and Outside Bracket



	TF12 & TF12T
	SHORT SPINDLE
MAXIMUM	30.25"
MINIMUM	14.00"
	STANDARD SPINDLE
MAXIMUM	30.25"
MINIMUM	15.00"

TORFLEX® TORSION SUSPENSION AXLE • #12 7K

Axles & Axle Components



For illustration only: TF12 7K Galvanized EZ-Lube Spindle Drum Brake Marine Torsion Axle.



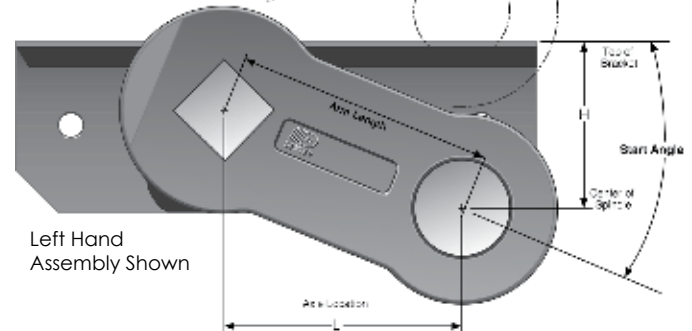
Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	6.24	4.24	4.30	5.54	3.17	5.88
	High	6.99	4.24	5.05	5.54	3.92	5.88
32° Down	Low	5.18	5.09	2.99	5.92	1.82	6.00
	High	5.93	5.09	3.74	5.92	2.57	6.00
22.5° Down	Low	4.30	5.54	2.00	6.00	0.63	5.88
	High	5.05	5.54	2.75	6.00	1.58	5.88
10° Down	Low	3.04	5.91	0.70	5.86	-0.42	5.49
	High	3.79	5.91	1.45	5.86	0.33	5.49
0°	Low	2.00	6.00	-0.30	5.54	-1.33	4.99
	High	2.75	6.00	0.45	5.54	-0.58	4.99
10° Up	Low	0.96	5.91	-1.22	5.06	-2.15	4.33
	High	1.71	5.91	-0.47	5.06	-1.40	4.33
22.5° Up	Low	-0.30	5.54	-2.24	4.24	-2.99	3.33
	High	0.45	5.54	-1.49	4.24	-2.24	3.33

Beam Only

BEAM STANDARD SPINDLE 6100540

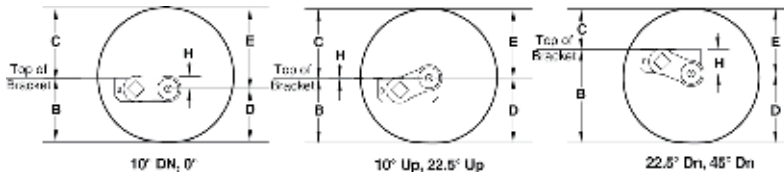
BEAM EZ-LUBE SPINDLE 6100541

Dimensions are for top mount only. Side mount is 0.31" higher. High Profile brackets are 0.75" higher. Allow 3" bump clearance from full load.



NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



Start Angle

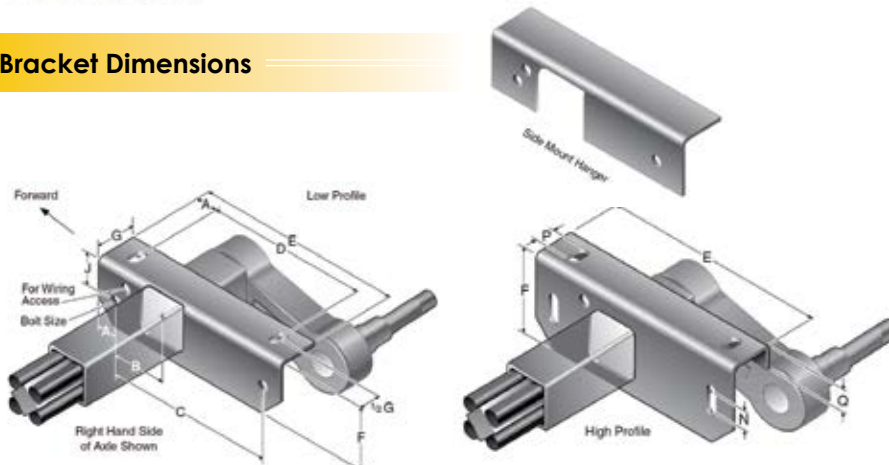
Tire	* **		45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
LT235/85R16	14.3	15.4	4.3	18.6	11.1	2.0	16.3	13.4	0.7	15.0	14.7	-0.3	14.0	15.7	-1.2	13.1	16.6	-2.2	12.1	17.6
7.50-16LT	14.9	16.7	4.3	19.2	12.4	2.0	16.9	14.7	0.7	15.6	16.0	-0.3	14.6	17.0	-1.2	13.7	17.9	-2.2	12.7	18.9
9.50-16.5LT	14.1	15.2	4.3	18.4	10.9	2.0	16.1	13.2	0.7	14.8	14.5	-0.3	13.8	15.5	-1.2	12.9	16.4	-2.2	11.9	17.4

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#12 Bracket Dimensions

	Low	High
A	1.25	1.25
B	3.50	3.50
C	9.50	9.50
D	9.00	9.00
E	12.00	12.00
F	4.37	5.12
G	2.50	2.50
J	2.06	2.06
N	----	1.03
P	----	1.00
Q	----	1.00
Bolt Size	5/8" bolt	
Tube Size	3.50	3.50

TORFLEX® TORSION SUSPENSION AXLE • #12T 7K

Axles & Axle Components



For illustration only: TF12 7K Grease Spindle 865 Bolt Pattern Brake Drum Torsion Axle.

(The 12T uses a TF13 Bearing.)

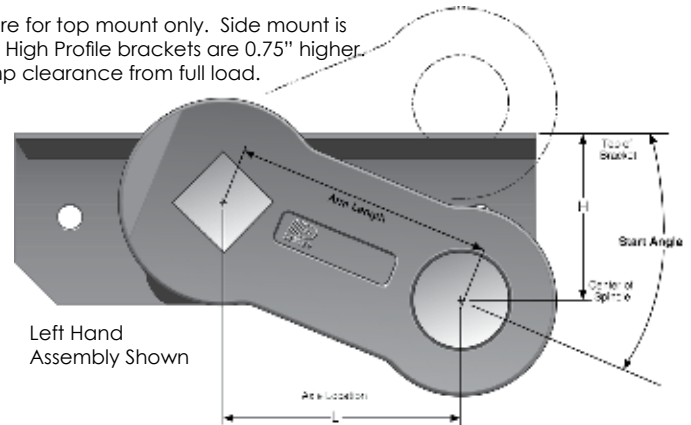
Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	6.49	4.24	4.55	5.54	3.42	5.88
	High	7.18	4.24	5.24	5.54	4.11	5.88
32° Down	Low	5.43	5.09	3.24	5.92	2.07	6.00
	High	6.12	5.09	3.93	5.92	2.76	6.00
22.5° Down	Low	4.55	5.54	2.25	6.00	1.08	5.88
	High	5.24	5.54	2.94	6.00	1.77	5.88
10° Down	Low	3.29	5.91	0.95	5.86	-0.17	5.49
	High	3.98	5.91	1.64	5.86	0.52	5.49
0°	Low	2.25	6.00	-0.05	5.54	-1.08	4.99
	High	2.94	6.00	0.64	5.54	-0.39	4.99
10° Up	Low	1.21	5.91	-0.97	5.06	-1.90	4.33
	High	1.90	5.91	-0.28	5.06	-1.21	4.33
22.5° Up	Low	-0.05	5.54	-1.99	4.24	-2.74	3.33
	High	0.64	5.54	-1.30	4.24	-2.05	3.33

Beam Only

BEAM STANDARD SPINDLE 6100544

BEAM EZ-LUBE SPINDLE 6100545

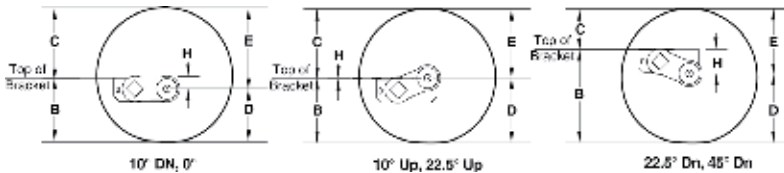
Dimensions are for top mount only. Side mount is 0.31" higher. High Profile brackets are 0.75" higher. Allow 3" bump clearance from full load.



Left Hand Assembly Shown

NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



Start Angle

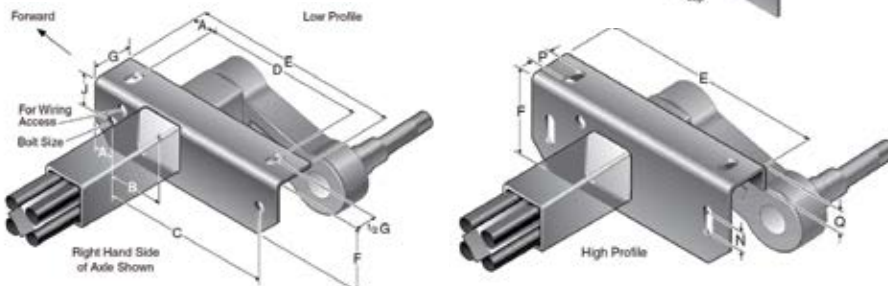
Tire	* **		45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
10R17.5HC	15.6	18.0	4.6	20.2	13.4	2.3	17.9	15.7	1.0	16.6	17.0	-0.1	15.5	18.1	-1.0	14.6	19.0	-2.0	13.6	20.0
215/75R17.5	14.0	15.3	4.6	18.6	10.7	2.3	16.3	13.0	1.0	15.0	14.3	-0.1	13.9	15.4	-1.0	13.0	16.3	-2.0	12.0	17.3
12-16.5LT	14.9	15.8	4.6	19.5	11.2	2.3	17.2	13.5	1.0	15.9	14.8	-0.1	14.8	15.9	-1.0	13.9	16.8	-2.0	12.9	17.8
9.50-16.5LT	14.1	15.2	4.6	18.7	10.6	2.3	16.4	12.9	1.0	15.1	14.2	-0.1	14.0	15.3	-1.0	13.1	16.2	-2.0	12.1	17.2
9R 17.5HC	15.4	17.1	4.6	20.0	12.5	2.3	17.7	14.8	1.0	16.4	16.1	-0.1	15.3	17.2	-1.0	14.4	18.1	-2.0	13.4	19.1

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#12T Bracket Dimensions

	Low	High
A	1.22	1.22
B	3.63	3.63
C	10.56	10.56
D	10.56	10.56
E	13.00	13.00
F	4.81	5.50
G	2.50	2.50
J	2.25	2.25
L	7.26	7.26
P	---	1.00
Q	---	1.00
Bolt Size	5/8" bolt	
Tube Size	3.88	3.88

TORFLEX® TORSION SUSPENSION AXLE • #12AG 7K

Axles & Axle Components



For illustration only: TF12AG 7K Grease Spindle 660 Bolt Pattern Idler Torsion Agricultural Axle.



For illustration only: TF12AG 7K Grease Spindle 660 Bolt Pattern Drum Brake Torsion Agricultural Axle.

#12AG 7K TORFLEX® AXLES	660
IDLER GREASE	6155310
ELECTRIC GREASE	6155311
HYDRAULIC UNI SERVO GREASE	6155313

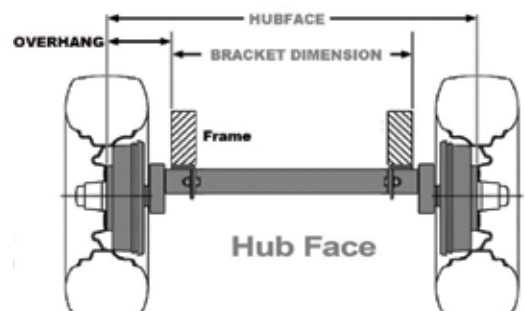
STANDARD FEATURES:
*1/2"-20 Wheel Bolts (35-6D) or 9/16"-18 Studs and Nuts (35-6F)
*#35-6D or 35-6F Spindles, 35-6B Spindle for Brake Axles
*25580 Inner & LM67048 (660) Outer Bearings
*Hub Face up to 96"
*12" Brake

UPGRADE OPTIONS:
*Hub Face over 96"
NOTE: Certain designs may have interference issues when using wheels wider than 10"



Difference Between Hub Face and Outside Bracket

	TF12AG
	IDLER AXLE
MAXIMUM	30.50"
MINIMUM	15.50"
	BRAKE AXLE
MAXIMUM	30.50"
MINIMUM	14.00"



TORFLEX® AIRFLEX AIR-RIDE SUSPENSION

Axles & Axle Components



For illustration only: TF12 7K Grease Spindle 865 Bolt Pattern Disc Brake Torsion Axle with AirFlex® Air-Ride Suspension.



For illustration only: TF13D 10K Heavy Duty Oil Bath 865 Bolt Pattern Brake Drum Torsion Axle with AirFlex® Air-Ride Suspension.

AIRFLEX® AIR-RIDE SUSPENSION SYSTEM

	DESCRIPTION	ITEM NO.
# 12 TORFLEX AIRFLEX® OPTION - ADD TO 7K AXLE		6151715
# 13 TORFLEX AIRFLEX® OPTION - ADD TO 8K AXLE		6151715
# 13G TORFLEX AIRFLEX® OPTION - ADD TO 10K GD AXLE		6151715
# 13D TORFLEX AIRFLEX® OPTION - ADD TO 10K HD AXLE		6151715

NOTE: Add-On AirFlex® is Per Axle.

AIRFLEX® AIR-RIDE SUSPENSION ACCESSORIES

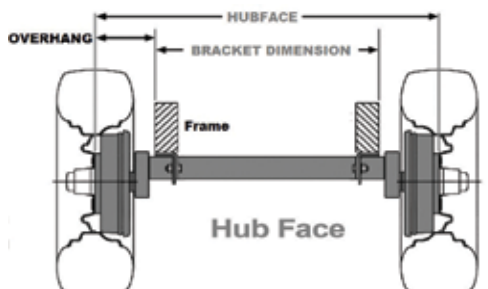
	DESCRIPTION	ITEM NO.
	RIDE HEIGHT CONTROL KIT	9100113
	AIRFLEX® AIR SUPPLY AND CONTROL KIT*	9100193
	AIRFLEX® AIR CONTROL KIT - LESS AIR SUPPLY*	9100287
	AIRFLEX® 7K AXLE ATTACHING PARTS	9100182
	AIRFLEX® AIR GENERATION KIT WITH COMPRESSOR & TANK	9100098

*Requires Separate Purchase of Ride Height Control Valve Kit.

NOTE: For Torflex® Axles that are Top Mount Low Profile Only.

NOTE: Accessories quantity is Per Trailer.

Difference Between Hub Face and Outside Bracket



	TF12 7K	13G 10KGD
MAXIMUM	26.75"	30.75"
MINIMUM	15.00"	20.25"
	TF13 8K	13K 10KHD
MAXIMUM	39.25"	30.75"
MINIMUM	18.00"	24.50"



- Soft Ride – New hybrid suspension combines air and rubber torsion for an excellent ride
- Independent – Ride and stability improve with independent wheel action
- Equalizing – Axle-to-axle load equalization allows use on triple axle trailers
- Reliable – Rubber cushions ride even if air is not available
- Maintains constant ride height for the ultimate ride
- Fully assembled for easy installation
- Adjustable axle alignment feature
- Available for single, tandem or triple axle applications in 6K, 7K, 8K and 10K capacities
- Optional ride height control valve, air generation and shock absorber kits are available
- Two year limited warranty



AIRFLEX[®]
AIR RIDE SUSPENSION

Smooth Out the Roughest Roads



TORFLEX® TORSION SUSPENSION AXLE • #12V 7.2K

Axles & Axle Components



For illustration only: TF12V 7.2K Grease Spindle
865 Bolt Pattern Brake Drum Torsion Axle.

#12V 7.2K TORFLEX® AXLES	865	
DESCRIPTION	9/16" STUDS	5/8" STUDS
ELECTRIC GREASE	6152142	6152144
ELECTRIC EZ-LUBE	6152145	6152147
ELECTRIC OIL BATH	6152148	6152150

*12V is not recommended for Triple Axle Configuration.

Beam Only

BEAM STANDARD SPINDLE	6100542
BEAM EZ-LUBE SPINDLE	6100543

STANDARD FEATURES:

- *9/16"-18 Press-In Wheel Studs and Nuts
- *DX Spindles
- *25580 Inner & 02475 Outer Bearings
- *Hub Face up to 96"
- *3.50" OD Square Tube
- *12-1/4" Brake

UPGRADE OPTIONS:

- *Side Mount Brackets
- *High Profile Brackets
- *Hub Face over 96"
- *5/8"-18 Wheel Studs and Nuts
- *Nev-R-Lube
- *33" Lead Wires
- *32" Braided Wire Sleeves



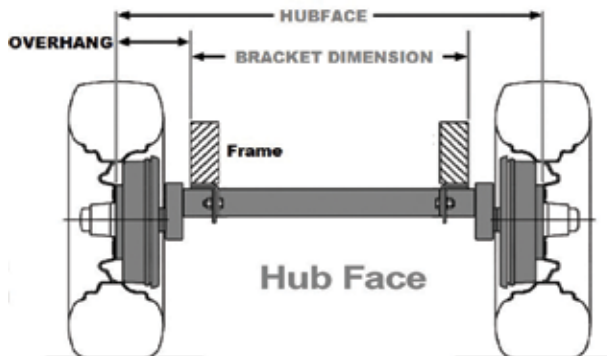
SAVE TIME, SAVE MONEY WITH NEV-R-LUBE®
42mm Sealed Cartridge Bearings.
Available only with 6-stud hubs and
use with zero offset wheels.



See advertisement after page A-38 for more details.



Difference Between Hub Face and Outside Bracket



	TF12V STANDARD SPINDLE
MAXIMUM	29.50"
MINIMUM	14.00"

TORFLEX® TORSION SUSPENSION AXLE • #12V 7.2K

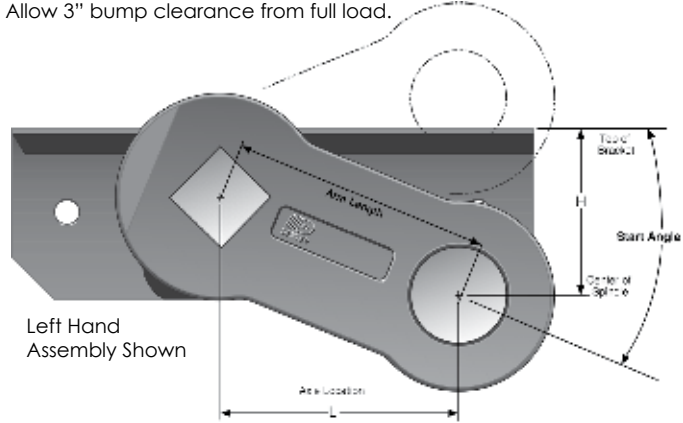
Axles & Axle Components



For illustration only: TF12V 7K Grease Spindle 865 Bolt Pattern Brake Drum Torsion Axle.

Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	6.24	4.24	4.30	5.54	3.17	5.88
	High	6.99	4.24	5.05	5.54	3.92	5.88
32° Down	Low	5.18	5.09	2.99	5.92	1.82	6.00
	High	5.93	5.09	3.74	5.92	2.57	6.00
22.5° Down	Low	4.30	5.54	2.00	6.00	0.83	5.88
	High	5.05	5.54	2.75	6.00	1.58	5.88
10° Down	Low	3.04	5.91	0.70	5.86	-0.42	5.49
	High	3.79	5.91	1.45	5.86	0.33	5.49
0°	Low	2.00	6.00	-0.30	5.54	-1.33	4.99
	High	2.75	6.00	0.45	5.54	-0.58	4.99
10° Up	Low	0.96	5.91	-1.22	5.06	-2.15	4.33
	High	1.71	5.91	-0.47	5.06	-1.40	4.33
22.5° Up	Low	-0.30	5.54	-2.24	4.24	-2.99	3.33
	High	0.45	5.54	-1.49	4.24	-2.24	3.33

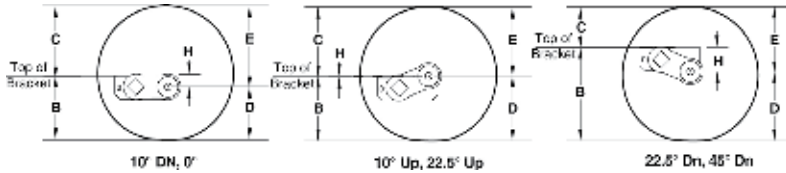
Dimensions are for top mount only. Side mount is 0.31" higher. High Profile brackets are 0.75" higher. Allow 3" bump clearance from full load.



Left Hand Assembly Shown

NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



Start Angle

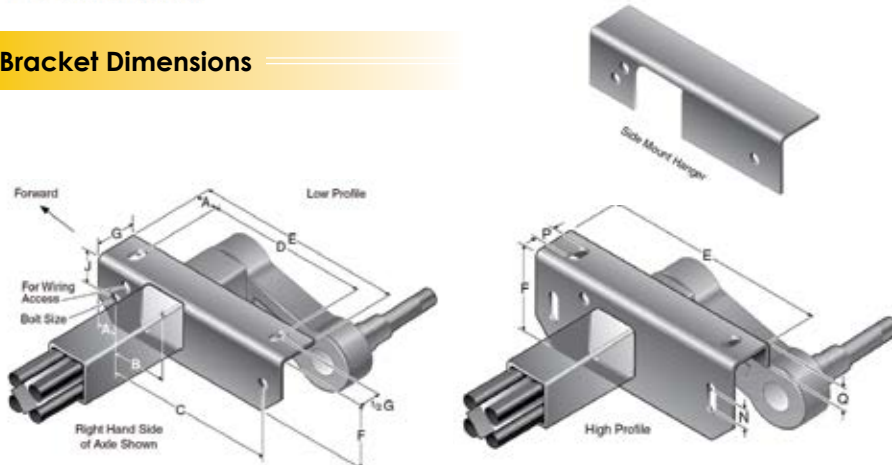
Tire	* **		45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
LT235/85R16	14.3	15.4	4.3	18.6	11.1	2.0	16.3	13.4	0.7	15.0	14.7	-0.3	14.0	15.7	-1.2	13.1	16.6	-2.2	12.1	17.6
7.50-16LT	14.9	16.7	4.3	19.2	12.4	2.0	16.9	14.7	0.7	15.6	16.0	-0.3	14.6	17.0	-1.2	13.7	17.9	-2.2	12.7	18.9
9.50-16.5LT	14.1	15.2	4.3	18.4	10.9	2.0	16.1	13.2	0.7	14.8	14.5	-0.3	13.8	15.5	-1.2	12.9	16.4	-2.2	11.9	17.4

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#12V Bracket Dimensions

	Low	High
A	1.25	1.25
B	3.50	3.50
C	9.50	9.50
D	9.00	9.00
E	12.00	12.00
F	4.37	5.12
G	2.50	2.50
J	2.06	2.06
N	----	1.03
P	----	1.00
Q	----	1.00
Bolt Size	5/8" bolt	
Tube Size	3.50	3.50

TORFLEX® TORSION SUSPENSION AXLE • #13 8K

Axles & Axle Components



For illustration only: TF13 8K Grease Spindle 865 Bolt Pattern Brake Drum Torsion Axle.

#13 8K TORFLEX® AXLES	865	865	13T TRIPLE APPLICATION
DESCRIPTION	9/16" Studs	5/8" Studs	
IDLER EZ-LUBE	6152154	6152156	
IDLER OIL BATH	6152151	6152153	
ELECTRIC EZ-LUBE	6152160	6152162	6154643*
ELECTRIC OIL BATH	6152157	6152159	6154644*
ELECTRIC NEV-R-LUBE	6152163	6152165	
HYDRAULIC DUO SERVO EZ-LUBE	6152178	6152180	
HYDRAULIC DUO SERVO OIL BATH	6152175	6152177	
HYDRAULIC DUO SERVO NEV-R-LUBE	6152181	6152183	
HYDRAULIC DISC EZ-LUBE	6152169	6152171	
HYDRAULIC DISC OIL BATH	6152166	6152168	
HYDRAULIC DISC NEV-R-LUBE	6152172	6152174	

*13T is the axle required to be used in Triple Axle Configurations. The 13T is available in with other lubrications, as an idler, with hydraulic brakes, etc. Ask your Sales Representative for a special quote for your desire Triple Torsion Axle System.



SAVE TIME, SAVE MONEY WITH NEV-R-LUBE®

42mm Sealed Cartridge Bearings.

Available only with 6-stud hubs and use with zero offset wheels.

See advertisement after page A-38 for more details.

STANDARD FEATURES:

*9/16"-18 Press-In Wheel Studs and Nuts

*#42F Spindles

*25580 Inner & 02475 Outer Bearings

*Hub Face up to 96"

*3.88" OD Square Tube

*12-1/4" Brake

UPGRADE OPTIONS:

*ABS Package for Hydraulic Brakes

*Side Mount Brackets

*High Profile Brackets

*Nev-R-Adjust Brakes

*Hub Face over 96"

*5/8"-18 Wheel Studs and Nuts

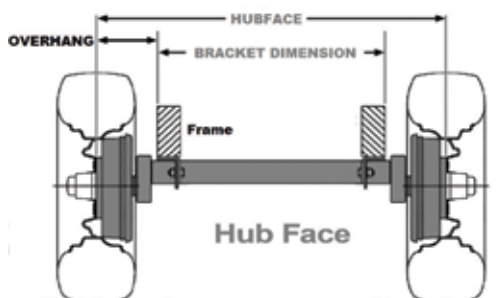
*Nev-R-Lube

*AirFlex® Suspension System (See page A-50)

Features & Benefits

- Totally rubber-cushioned for smooth, quiet, independent ride
- Easy installation with less maintenance
- Less transfer of road shock which insulates cargo from road shocks and vibration
- Rubber cords compounded for maximum dependability and durability
- Load-carrying cross member
- Self-damping action
- Independent wheel suspension system
- 10-year limited warranty on suspension system
- Low profile for maximum road clearance
- Various starting angles to control trailer height
- High and low profile brackets with optional mounting brackets available
- Rubber cushioning eliminates metal-to-metal contact
- Shock absorption provided by the natural hysteresis of rubber
- Single or tandem axle assemblies
- Durable, wear-resistant components

Difference Between Hub Face and Outside Bracket



	TF13	TF13T
	SHORT SPINDLE	SHORT SPINDLE
MAXIMUM	43.00"	43.00"
MINIMUM	17.00"	17.00"
	STANDARD SPINDLE	STANDARD SPINDLE
MAXIMUM	43.00"	43.00"
MINIMUM	18.00"	18.00"

TORFLEX® TORSION SUSPENSION AXLE • #13 8K

Axles & Axle Components

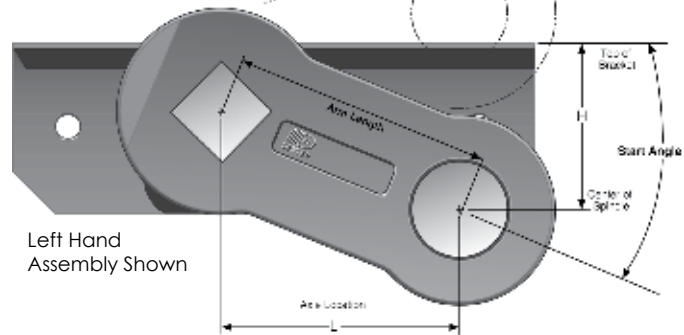
Beam Only

BEAM STANDARD OIL BATH SPINDLE	6100544
BEAM EZ-LUBE SPINDLE	6100545



Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	Low	6.49	4.24	4.55	5.54	3.42	5.88
	High	7.18	4.24	5.24	5.54	4.11	5.88
32° Down	Low	5.43	5.09	3.24	5.92	2.07	6.00
	High	6.12	5.09	3.93	5.92	2.76	6.00
22.5° Down	Low	4.55	5.54	2.25	6.00	1.08	5.88
	High	5.24	5.54	2.94	6.00	1.77	5.88
10° Down	Low	3.29	5.91	0.95	5.86	-0.17	5.49
	High	3.98	5.91	1.64	5.88	0.52	5.49
0°	Low	2.25	6.00	-0.05	5.54	-1.08	4.99
	High	2.94	6.00	0.64	5.54	-0.39	4.99
10° Up	Low	1.21	5.91	-0.97	5.06	-1.90	4.33
	High	1.90	5.91	-0.28	5.06	-1.21	4.33
22.5° Up	Low	-0.05	5.54	-1.99	4.24	-2.74	3.33
	High	0.64	5.54	-1.30	4.24	-2.05	3.33

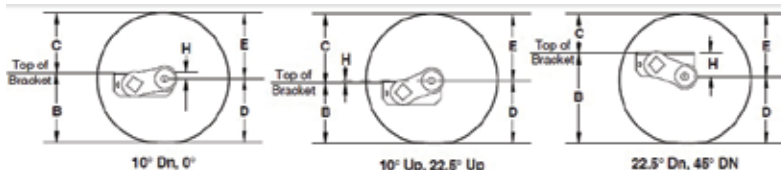
Dimensions are for top mount only. Side mount is 0.31" higher. High Profile brackets are 0.75" higher. Allow 3" bump clearance from full-load.



Left Hand Assembly Shown

NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

Full Load Dimensions



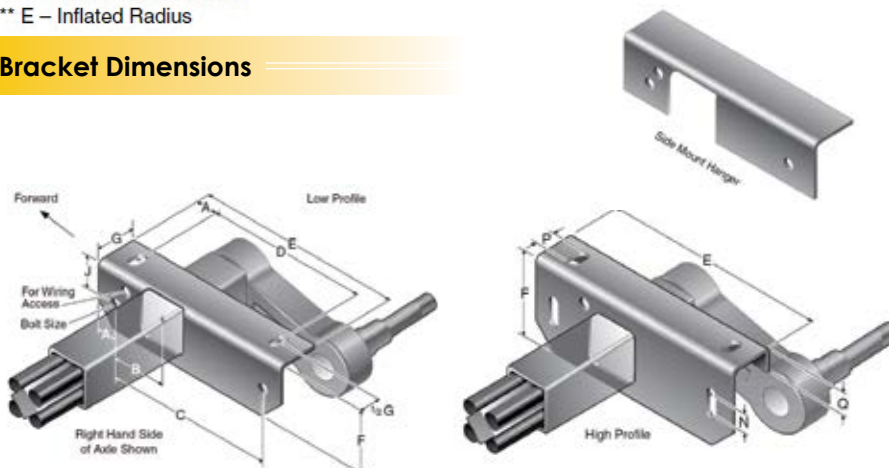
Start Angle

Tire	* **		45° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
10R17.5HC	15.6	18.0	4.6	20.2	13.4	2.3	17.9	15.7	1.0	16.6	17.0	-0.1	15.5	18.1	-1.0	14.6	19.0	-2.0	13.6	20.0
215/75R17.5	14.0	15.3	4.6	18.6	10.7	2.3	16.3	13.0	1.0	15.0	14.3	-0.1	13.9	15.4	-1.0	13.0	16.3	-2.0	12.0	17.3
12-16.5LT	14.9	15.8	4.6	19.5	11.2	2.3	17.2	13.5	1.0	15.9	14.8	-0.1	14.8	15.9	-1.0	13.9	16.8	-2.0	12.9	17.8
9.50-16.5LT	14.1	15.2	4.6	18.7	10.6	2.3	16.4	12.9	1.0	15.1	14.2	-0.1	14.0	15.3	-1.0	13.1	16.2	-2.0	12.1	17.2
9R 17.5HC	15.4	17.1	4.6	20.0	12.5	2.3	17.7	14.8	1.0	16.4	16.1	-0.1	15.3	17.2	-1.0	14.4	18.1	-2.0	13.4	19.1

Columns D and E are dimensional examples only:

- * D – Static Loaded Radius
- ** E – Inflated Radius

Bracket Dimensions



#13 #13T Bracket Dimensions

	Low	High
A	1.22	1.22
B	3.63	3.63
C	10.56	10.56
D	10.56	10.56
E	13.00	13.00
F	4.81	5.50
G	2.50	2.50
J	2.25	2.25
L	7.26	7.26
P	----	1.00
Q	----	1.00
Bolt Size	5/8" bolt	
Tube Size	3.88	3.88

TORFLEX® TORSION SUSPENSION AXLE • #13AG 8K

Axles & Axle Components



For illustration only: TF13AG 8K Grease Spindle 880 Bolt Pattern Idler Torsion Agricultural Axle.



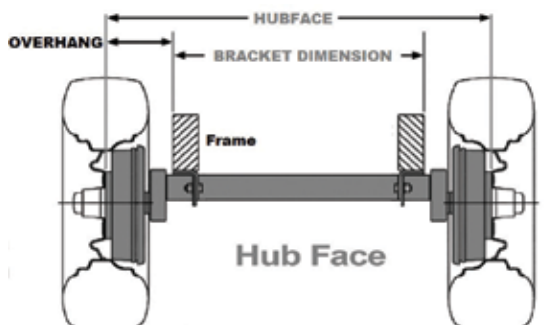
#13AG 8K TORFLEX® AXLES	880
IDLER GREASE	6156760

STANDARD FEATURES:
*5/8"-18 Studs and Nuts
*#35-8B Spindle
*JLM506849 Inner & LM501349 Outer Bearings
*Hub Face up to 96"
*12-1/4" Brake
UPGRADE OPTIONS:
*Hub Face over 96"
*Electric and Hydraulic Brake Axle



For illustration only: TF13AG 8K Grease Spindle 880 Bolt Pattern Drum Brake Torsion Agricultural Axle.

Difference Between Hub Face and Outside Bracket



	TF13AG
	IDLER OR BRAKE AXLE
MAXIMUM	43.00"
MINIMUM	22.00"



Torflex® Axles for Agricultural Equipment

Designed to Withstand Rigorous Farming Conditions

- Independent wheel suspension and self-dampening action
- Rubber cushioning eliminates metal-to-metal contact
- Heat-treated solid steel inner bar
- Forged torsion arm for maximum strength
- Rubber cords compounded for dependability
- Easy installation with less overall maintenance
- Low profile availability for maximum road clearance
- Single or tandem axle assemblies
- Five-year limited warranty on suspension system



GEARED FOR INNOVATION SINCE 1960

TORFLEX® TORSION SUSPENSION AXLE • #13G 10K GD

Axles & Axle Components



For illustration only: TF13 10K General Duty Oil Bath 865 Bolt Pattern Brake Drum Torsion Axle.

Beam Only

BEAM STANDARD SPINDLE	6100546
-----------------------	---------

#13G 10K GD TORFLEX® AXLES	865
DESCRIPTION	5/8" STUDS
ELECTRIC FORWARD-SELF ADJUSTING OIL BATH	6152184
HYDRAULIC DUO SERVO OIL BATH	6152185
HYDRAULIC DUO SERVO OIL BATH WITH ABS PACKAGE	6152186
HYDRAULIC DISC OIL BATH	6157433

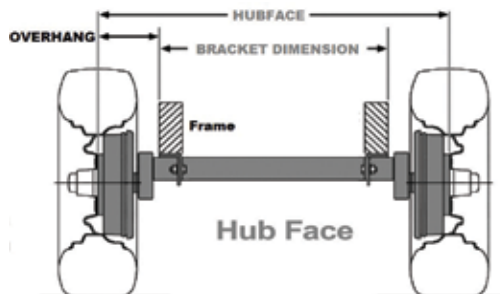
*Single Wheel Application Only. *Standard High Profile Mount Brackets



STANDARD FEATURES:
*5/8"-18 Press-In Wheel Studs and Nuts
*DX Spindles
*387A Inner & 22580 Outer Bearings
*Hub Face up to 80"
*3.88" OD Square Tube
*12-1/4" x 3-3/8" Brake
*Standard Wheel Pilot 4.75"

UPGRADE OPTIONS:
*ABS Package for Hydraulic Brakes
*Hydraulic Brake with Park
*Side Mount Brackets
*High Profile Brackets
*Hub Face over 80"
*AirFlex® Suspension System (See page A-50)
*32" Braided Wire Sleeves
*Wired for Electric Brakes
*33" Lead Wires
*Conduit Connectors

Difference Between Hub Face and Outside Bracket



	TF13G
	10K GD
MAXIMUM	34.25"
MINIMUM	20.25"

TORFLEX® TORSION SUSPENSION AXLE • #13G 10K GD ◻

Axles & Axle Components

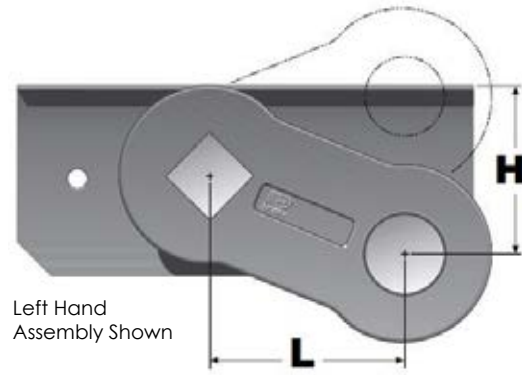


Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	High	7.18	4.24	5.24	5.54	4.24	5.83
32° Down	High	6.12	5.09	3.93	5.92	2.94	5.84
22.5° Down	High	5.24	5.54	2.94	6.00	1.90	5.91
10° Down	High	3.98	5.91	1.64	5.86	0.64	5.54
0°	High	2.94	6.00	0.64	5.54	-0.28	5.06
10° Up	High	1.90	5.91	-0.28	5.06	-0.11	4.42
22.5° Up	High	0.64	5.54	-1.30	4.24	-1.97	3.44

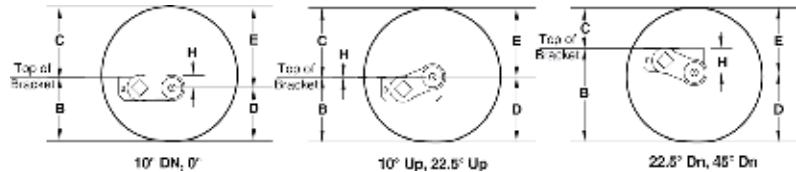
NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

NOTE: Dual wheel not available for the TF13G 10K General Duty.

Dimensions are for high profile, top mount only. Side mount is 0.31" higher. Allow 3" bump clearance from full load.



Full Load Dimensions



Start Angle

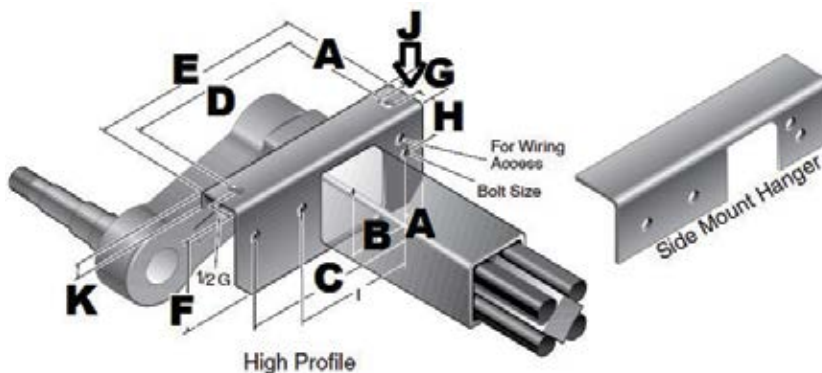
Tire	* **		45° Down			32° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
LT235/85R16	14.3	15.4	5.2	19.5	10.2	3.9	18.2	11.4	2.9	17.2	12.5	1.6	15.9	13.8	.6	14.9	14.8	-0.3	14.0	15.7	-1.3	13.0	16.7
215/75R17.5	14.0	15.3	5.2	19.2	10.1	3.9	17.9	11.3	2.9	16.9	12.4	1.6	15.6	13.7	.6	14.6	14.7	-0.3	13.7	15.6	-1.3	12.7	16.6
235/75R17.5	14.3	15.7	5.2	19.5	10.5	3.9	18.2	11.7	2.9	17.2	12.8	1.6	15.9	14.1	.6	14.9	15.1	-0.3	14.0	16.0	-1.3	13.0	17.0
9R17.5HC	15.4	17.1	5.2	20.6	11.9	3.9	19.3	13.1	2.9	18.3	14.2	1.6	17.0	15.5	.6	16.0	16.5	-0.3	15.1	17.4	-1.3	14.1	18.4
10R17.5HC	15.6	18.0	5.2	20.8	12.8	3.9	19.5	14.0	2.9	18.5	15.1	1.6	17.2	16.4	.6	16.2	17.4	-0.3	15.3	18.3	-1.3	14.3	19.3

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#13G Bracket Dimensions

A	1.22
B	3.63
C	10.56
D	10.56
E	13.00
F	5.50
G	2.50
H	2.25
I	7.26
J	1.00
K	1.00
Bolt Size	5/8" bolt
Tube Size	3.88

TORFLEX® TORSION SUSPENSION AXLE • #13D 10K HD

Axles & Axle Components



For illustration only: TF13 10K General Duty Oil Bath 865 Bolt Pattern Brake Drum Torsion Axle.

Beam Only

BEAM STANDARD SPINDLE 6100547

#13D 10K HD TORFLEX® AXLES

865

DESCRIPTION	5/8" STUDS
ELECTRIC FORWARD-SELF ADJUSTING OIL BATH	6152187
HYDRAULIC DUO SERVO OIL BATH	6152188
HYDRAULIC DUO SERVO OIL BATH WITH ABS PACKAGE	6152189

*Standard High Profile Mount Brackets



STANDARD FEATURES:

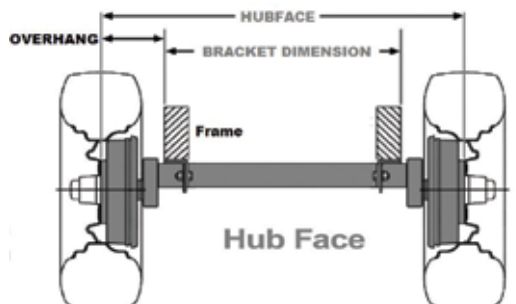
- *5/8"-18 Press-In Wheel Studs and Nuts
- *DX Spindles
- *395S Inner & 387A Outer Bearings
- *Hub Face up to 80"
- *3.88" OD Square Tube
- *12-1/4" x 4" Brake
- *Standard Wheel Pilot 4.75"

UPGRADE OPTIONS:

- *ABS Package for Hydraulic Brakes
- *Side Mount Brackets
- *High Profile Brackets
- *Hub Face over 80"
- *Conduit Connectors
- *AirFlex® Suspension System (See page A-50)
- *Disc Brakes
- *32" Braided Wire Sleeves
- *Wired for Electric Brakes
- *33" Lead Wires

NOTE: For a triple application the trailer must be equipped with three model 14T axles. It is not recommended to use the model 13D in triple applications.

Difference Between Hub Face/Track Width and Outside Bracket



SINGLE WHEEL

HUB FACE

MAXIMUM	34.50"
MINIMUM	24.50"

DUAL WHEEL

TRACK WIDTH

MAXIMUM	34.50"
MINIMUM	25.25"

TORFLEX® TORSION SUSPENSION AXLE • #13D 10K HD

Axles & Axle Components

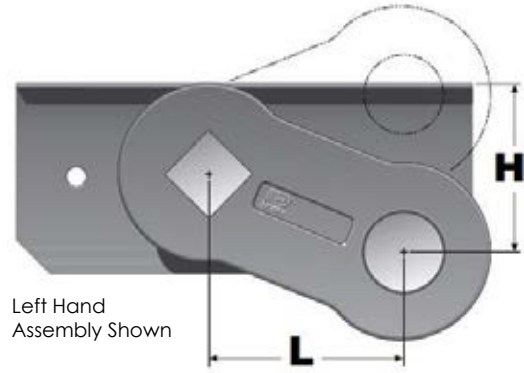


Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	High	7.18	4.24	5.24	5.54	4.24	5.83
32° Down	High	6.12	5.09	3.93	5.92	2.94	5.84
22.5° Down	High	5.24	5.54	2.94	6.00	1.90	5.91
10° Down	High	3.98	5.91	1.64	5.86	0.64	5.54
0°	High	2.94	6.00	0.64	5.54	-0.28	5.06
10° Up	High	1.90	5.91	-0.28	5.06	-0.11	4.42
22.5° Up	High	0.64	5.54	-1.30	4.24	-1.97	3.44

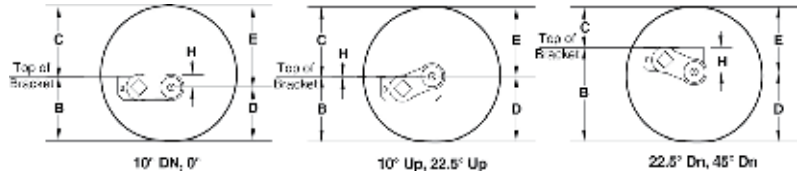
NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.

NOTE: Dual wheel not available for the TF13G 10K General Duty.

Dimensions are for high profile, top mount only. Side mount is 0.31" higher. Allow 3" bump clearance from full load.



Full Load Dimensions



Start Angle

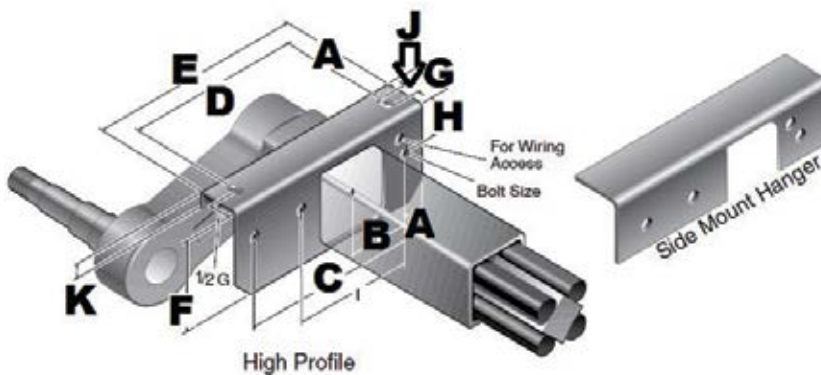
Tire	* **		45° Down			32° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
LT235/85R16	14.3	15.4	5.2	19.5	10.2	3.9	18.2	11.4	2.9	17.2	12.5	1.6	15.9	13.8	.6	14.9	14.8	-0.3	14.0	15.7	-1.3	13.0	16.7
215/75R17.5	14.0	15.3	5.2	19.2	10.1	3.9	17.9	11.3	2.9	16.9	12.4	1.6	15.6	13.7	.6	14.6	14.7	-0.3	13.7	15.6	-1.3	12.7	16.6
235/75R17.5	14.3	15.7	5.2	19.5	10.5	3.9	18.2	11.7	2.9	17.2	12.8	1.6	15.9	14.1	.6	14.9	15.1	-0.3	14.0	16.0	-1.3	13.0	17.0
9R17.5HC	15.4	17.1	5.2	20.6	11.9	3.9	19.3	13.1	2.9	18.3	14.2	1.6	17.0	15.5	.6	16.0	16.5	-0.3	15.1	17.4	-1.3	14.1	18.4
10R17.5HC	15.6	18.0	5.2	20.8	12.8	3.9	19.5	14.0	2.9	18.5	15.1	1.6	17.2	16.4	.6	16.2	17.4	-0.3	15.3	18.3	-1.3	14.3	19.3

Columns D and E are dimensional examples only:

* D – Static Loaded Radius

** E – Inflated Radius

Bracket Dimensions



#13D Bracket Dimensions

A	1.22
B	3.63
C	10.56
D	10.56
E	13.00
F	5.50
G	2.50
H	2.25
I	7.26
J	1.00
K	1.00
Bolt Size	5/8" bolt
Tube Size	3.88

TORFLEX® TORSION SUSPENSION AXLE • #14 12K HD

Axles & Axle Components

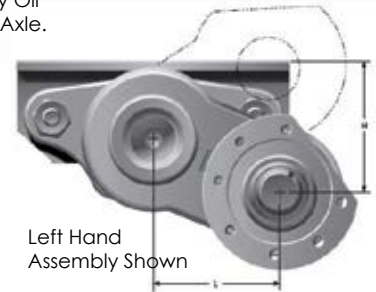
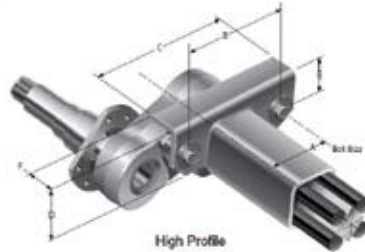


For illustration only: TF14 12K Heavy Duty Oil Bath 865 Bolt Pattern Disc Brake Torsion Axle.

Dimensions are for high profile only. Allow 3" bump clearance from full load.

Start Angle	Bracket Profile	No Load		Full Load		Shock Load	
		H	L	H	L	H	L
45° Down	High	7.18	4.24	5.24	5.54	4.24	5.83
32° Down	High	6.12	5.09	3.93	5.92	2.94	5.84
22.5° Down	High	5.24	5.54	2.94	6.00	1.90	5.91
10° Down	High	3.98	5.91	1.64	5.86	0.64	5.54
0°	High	2.94	6.00	0.64	5.54	-0.28	5.06
10° Up	High	1.90	5.91	-0.28	5.06	-0.11	4.42
22.5° Up	High	0.64	5.54	-1.30	4.24	-1.97	3.44

NOTE: Positive number in the H Column indicate the spindle is BELOW the top of the bracket. Conversely, negative numbers are ABOVE the top of the bracket.



#14 12K HD TORFLEX® AXLES	865
DESCRIPTION	5/8" STUDS
ELECTRIC FORWARD-SELF ADJUSTING OIL BATH	6154645

*Standard High Profile Mount Brackets

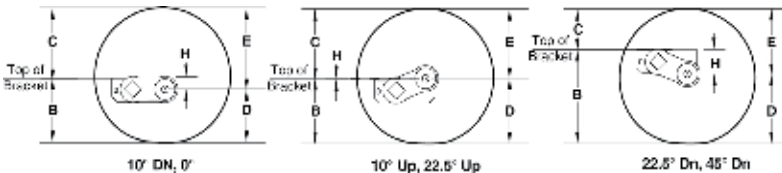
STANDARD FEATURES:

- *5/8"-18 Press-In Wheel Studs and Nuts
- *DX Spindles
- *3984 Inner Bearings & 28682 Outer Bearings
- *Hub Face up to 80"
- *4.25" OD Square Tube
- *12-1/4" x 5" Brake
- *Standard Wheel Pilot 4.75"

UPGRADE OPTIONS:

- *Hub Face over 80"

Full Load Dimensions



Start Angle

Tire	* **		45° Down			32° Down			22.5° Down			10° Down			0°			10° Up			22.5° Up		
	D	E	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C	H	B	C
LT235/85R16	14.3	15.4	5.7	20.0	9.70	4.4	18.7	11.0	3.4	17.7	12.0	2.1	16.4	13.3	1.1	15.4	14.3	.2	14.5	15.2	-0.8	13.5	16.2
215/75R17.5	14.0	15.3	5.7	19.7	9.60	4.4	18.4	10.9	3.4	17.4	11.9	2.1	16.1	13.2	1.1	15.1	14.2	.2	14.2	15.1	-0.8	13.2	16.1
235/75R17.5	14.3	15.7	5.7	20.0	10.0	4.4	18.7	11.3	3.4	17.7	12.3	2.1	16.4	13.6	1.1	15.4	14.6	.2	14.5	15.5	-0.8	13.5	16.5
9R17.5HC	15.4	17.1	5.7	21.1	11.4	4.4	19.8	12.7	3.4	18.8	13.7	2.1	17.5	15.0	1.1	16.5	16.0	.2	15.6	16.9	-0.8	14.6	17.9
10R17.5HC	15.6	18.0	5.7	21.3	12.3	4.4	20.0	13.6	3.4	19.0	14.6	2.1	17.7	15.9	1.1	16.7	16.9	.2	15.8	17.8	-0.8	14.8	18.8

Columns D and E are dimensional examples only:

* D - Static Loaded Radius

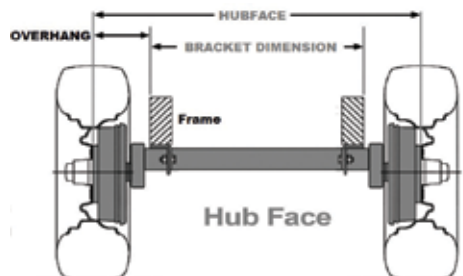
** E - Inflated Radius

NOTE: A Model 14T Extreme Duty is available for triple axel configurations but each axle is only rated at 10K Heavy Duty capacity, but enablea combined capacity of 30K.

Difference Between Hub Face and Outside Bracket

#14 Bracket Dimensions

A	4.50
B	9.00
C	12.00
D	4.50
E	2.44
F	2.50
Bolt Size	3/4" bolt
Tube Size	4.25



	TF14
DRUM MINIMUM	24.75"
DISC MINIMUM	18.50"

MARINE AXLE • M22 2.2K

M22 Marine Square Tube Spring Axle



For illustration only: M22 2.2K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Square Tube Axle.

M22 MARINE AXLES	545	545
DESCRIPTION	5.5" HUB 8-12" WHEELS	6.5" HUB 13-15" WHEELS
GALVANIZED IDLER WITH STAINLESS STEEL SLEEVE	6152513	6152518

M22 Beam Only

BEAM EZ-LUBE SPINDLE	6100888
V-BEAM EZ-LUBE SPINDLE	6100889

*2.2k axle are standard without a brake flange.
*A brake option is not available on the 2.2K Marine Axle.

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 2" SQUARE AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAF	DESCRIPTION
9150006-06MS	2-1020	1,000	2.00"	20.38"	3	SINGLE AXLE DOUBLE EYE SPRINGS
9150073-02MS	2-PR722	1,250	2.00"	25.25"	3	SINGLE AXLE DOUBLE EYE SPRINGS

Note: Leaf Springs support between 1,000 to 7,500 lbs per spring for 2K - 15K axles. There are two springs per axle. Each spring supports 50% of the axle's capacity up to the spring's capacity. i.e., a spring rating of 1,250 lbs is required for a 2,500 lbs capacity rated axle.

STANDARD FEATURES:

- *EZ-Lube Spindles Standard on Marine Axles & Beams
- *Stainless Steel Wear Sleeves
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *1 1/16" Spindle with 2" x .180 Square Tube
- *L44649 Inner & Outer Bearing
- *Non-Cambered Axle Beam

UPGRADE OPTIONS:

- *Cambered Axle Beam
- *V-Bent Center Beam

GAL-DEX™

- *GAL-DEX™ is a galvanic coating used for corrosion protection of equipment in marine applications.
- *GAL-DEX™ coating is a process that coats parts by overlapping zinc and aluminum flakes in an inorganic binder.
- *Provides a barrier protection between steel substrate and elements.
- *Galvanic action - the zinc corrodes to protect the steel.
- *Passivation - the metal oxide slows down the corrosion reaction (3-times greater protection than pure zinc).
- *Self-repairing - coating migrates to damaged areas and restores barrier protection.
- *Corrosion resistance - provides Salt Spray protection in excess of 1,000 hours.



Difference Between Hub Face and Spring Center

	M22
MAXIMUM	18.00"
RECOMMENDED	15.50"
MINIMUM	13.00"



MARINE AXLE • D22 2.2K Ⓢ

D22 Marine Round Tube Spring Axle



For illustration only: D22 2.2K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Round Tube Axle.

D22 MARINE AXLES	545	545
DESCRIPTION	5.5" HUB 8-12" WHEELS	6.5" HUB 13-15" WHEELS
GALVANIZED IDLER WITH STAINLESS STEEL SLEEVE	6159502	6159884

D22 Beam Only

BEAM EZ-LUBE SPINDLE	6100950
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*2.2k axle are standard without a brake flange.
*A brake option is not available on the 2.2K Marine Axle.

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 1-3/4" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAF	DESCRIPTION
9150006-02	2-1020	1,000	1.75"	20.38"	3	SINGLE AXLE DOUBLE-EYE SPRINGS
9150073-02	2-PR722	1,250	1.75"	25.25"	3	SINGLE AXLE DOUBLE-EYE SPRINGS
9150065-02	2-WIH2	1,000	1.75"	27.38"	2	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150007-02	2-WIH4	1,000	1.75"	24.62"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 2-3/8" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAF	DESCRIPTION
9150006-04	2-1020-D	1,000	1.75"	20.38"	3	SINGLE AXLE DOUBLE-EYE SPRINGS
9150073-04	2-722-D	1,250	1.75"	25.25"	3	SINGLE AXLE DOUBLE-EYE SPRINGS
9150065-04	2-WID2-D	1,000	1.75"	27.38"	2	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150007-04	2-WIH4-D	1,000	1.75"	24.25"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS

HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100063	APS1	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100116	APS2	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100007	APS3SE	2K-3.5K	1.75"	SINGLE AXLE SLIPPER SPRING HANGER KIT

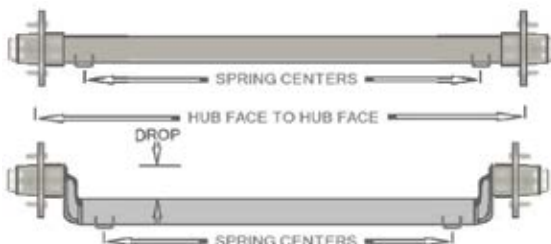
NOTE: Spring and U-Bolt Kits - requires 1 kit per axle.



STANDARD FEATURES:

- *EZ-Lube Spindles Standard on Marine Axles & Beams
- *Stainless Steel Wear Sleeves
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *1 1/16" Spindle with 1.75" x 0.156 Round Tube on Straight Axles
- *1 1/16" Spindle with 2.38" x 0.160 Round Tube on Drop Axles
- *L44649 Inner & Outer Bearing
- *Non-Cambered Axle Beam
- *Available in a Drop Spindle Axle
- *V-Bent Center Beam

Difference Between Hub Face and Spring Center



	STRAIGHT
MAXIMUM	15.50"
RECOMMENDED	13.50"
MINIMUM	11.50"
	DROP
MAXIMUM	18.00"
RECOMMENDED	16.75"
MINIMUM	15.50"

TORFLEX® MARINE TORSION SUSPENSION AXLE • #9 2.2K



For illustration only: TF9 2.2K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Torsion Axle.



For illustration only: TF9 2.2K Galvanized EZ-Lube Spindle 545 Bolt Pattern Idler Marine Torsion Axle with V-Bent Center Beam.

#9 TORFLEX® MARINE AXLES	545 (5.5")	545 (6.5")
DESCRIPTION	8-12" WHEELS	13-15" WHEELS
IDLER EZ-LUBE ANY ARM ANGLE	6156649	

*2.2k axle are standard without a brake flange.

*A brake option is not available on the 2.2K Marine Axle.

TF9 Beam Only

BEAM EZ-LUBE SPINDLE	6100957
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STANDARD FEATURES:

*1/2"-20 Press-In Wheel Studs and Nuts

*1-1/16" Spindles

*L44649 Inner & Outer Bearings

*Hub Face up to 96"

*2.17"OD Square Tube

*Stainless Steel Wear Sleeves

*GAL-DEX™ Hubs and Galvanized Beams

UPGRADE OPTIONS:

*Removable Spindle

*Side Mount Brackets (Steel or Aluminum)

*High Profile Brackets

*Brake Flange

*Hub Face over 96"

*V-Drop Center Beam

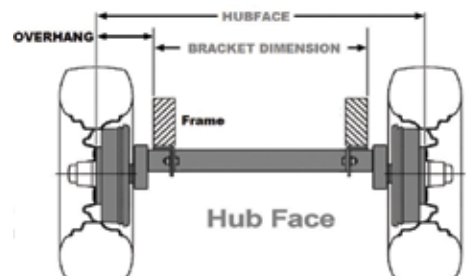
Features & Benefits

- Designed for fold-down campers, light utility, and boat trailer applications.
- Totally rubber-cushioned for smooth, quiet, independent ride
- Easy installation with less maintenance
- Less transfer of road shock which insulates cargo from road shocks and vibration
- Rubber cords compounded for maximum dependability and durability
- Load-carrying cross member
- Self-damping action
- Independent wheel suspension system
- 10-year limited warranty on suspension system
- Low profile for maximum road clearance
- Various starting angles to control trailer height
- High and low profile brackets with optional mounting brackets available
- Rubber cushioning eliminates metal-to-metal contact
- Shock absorption provided by the natural hysteresis of rubber
- Single or tandem axle assemblies
- Durable, wear-resistant components

Difference Between Hub Face and Outside Bracket

	STANDARD SPINDLE
MAXIMUM	21.75"
MINIMUM	13.00"

	SHORT SPINDLE
MAXIMUM	21.75"
MINIMUM	12.00"



NOTE: SEE PAGE A-41 FOR TORFLEX™ #9 APPLICATION INFORMATION (ARTICULATION & FULL LOAD DIMENSIONS AND START ANGLE DIMENSIONS).

MARINE AXLE • M35 3.5K

M35 Marine Square Tube Spring Axle



For illustration only: M35 3.5K EZ-Lube Spindle 545 Bolt Pattern Hydraulic Freebacking Drum Brake Marine Square Tube Axle.



For illustration only: M35 3.5K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Square Tube Axle.

M35 MARINE AXLES	545
DESCRIPTION	
GALVANIZED IDLER	6152520
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6152522

M35 Beam Only	
BEAM EZ-LUBE SPINDLE	6100890
V-BEAM EZ-LUBE SPINDLE	6100891

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 2" SQUARE AXLE TUBES						
ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAF	DESCRIPTION
9150073-02MS	2-PR722MS	1,250	1.75"	25.25"	3	SINGLE AXLE DOUBLE-EYE SPRINGS
9150011-02MS	2-WIF3MS	1,500	1.75"	30.25"	3	SINGLE AXLE RADIUS SLIPPER
9150015-02MS	2-WIG4MS	2,000	1.75"	30.25"	4	SINGLE AXLE RADIUS SLIPPER

Note: Leaf Springs support between 1,000 to 7,500 lbs per spring for 2K - 15K axles. There are two springs per axle. Each spring supports 50% of the axle's capacity up to the spring's capacity. i.e., a spring rating of 1,250 lbs is required for a 2,500 lbs capacity rated axle.



STANDARD FEATURES:
*Stainless Steel Wear Sleeves
*EZ-Lube Spindles Standard on Marine Axles & Beams
*Hot Dip Galvanized Beam
*Gal-Dex Coated Hubs & Hub/Drum
*84F Spindle with 2" x 0.250 Square Tube
*L68149 Inner Bearing & L44649 Outer Bearing
*Non-Cambered Axle Beam
UPGRADE OPTIONS:
*Cambered Axle Beam
*V-Bent Center Beam

Difference Between Hub Face and Spring Center



	M35
MAXIMUM	18.00"
RECOMMENDED	15.25"
MINIMUM	12.50"

MARINE AXLE • D35 3.5K ₪

D35 Marine Round Tube Spring Axle



For illustration only: D35 3.5K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Round Tube Axle.

D35 MARINE AXLES	545
DESCRIPTION	
GALVANIZED IDLER	6159500
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6159501

D35 Beam Only

BEAM EZ-LUBE SPINDLE	6100952
V-BEAM EZ-LUBE SPINDLE	6100953

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 2-3/8" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150014-02	2-SW4B	1,750	1.75"	25.25"	4	SINGLE AXLE DOUBLE-EYE SPRINGS
9150015-02	2-WIG4	2,000	1.75"	30.25"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS
9150011-04	2-WIF3	1,500	1.75"	30.25"	3	SINGLE AXLE RADIUS END SPLIPPER SPRINGS
9150016-02	2-SW4	2,500	1.75"	25.25"	4	SINGLE AXLE RADIUS END SPLIPPER SPRINGS

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS

HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100063	APS1	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100116	APS2	2K-3.5K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100007	APS3SE	2K-3.5K	1.75"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100064	APT1	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100041	APT3	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100060	APT4	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT

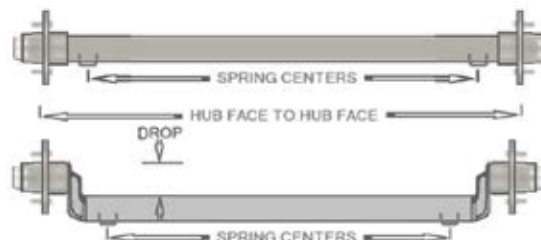
NOTE: Spring and U-Bolt Kits and Hanger Kits - requires 1 kit per axle.

STANDARD FEATURES:

- *EZ-Lube Spindles Standard on Marine Axles & Beams
- *Stainless Steel Wear Sleeves
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *84F Spindle with 2.38" x 0.156 Round Tube on Straight Axles
- *84F Spindle with 3.00" x 0.191 Round Tube on Drop Axles
- *L68149 Inner Bearings & L44649 Outer Bearings
- *Non-Cambered Axle Beam
- *Available in a Drop Spindle Axle
- *V-Bent Center Beam

Difference Between Hub Face and Spring Center

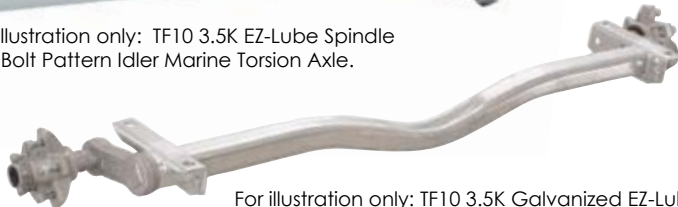
STRAIGHT	
MAXIMUM	18.00"
RECOMMENDED	14.75"
MINIMUM	11.50"
DROP	
MAXIMUM	18.00"
RECOMMENDED	16.00"
MINIMUM	14.00"



TORFLEX® MARINE TORSION SUSPENSION AXLE • #10 3.5K



For illustration only: TF10 3.5K EZ-Lube Spindle 545 Bolt Pattern Idler Marine Torsion Axle.



For illustration only: TF10 3.5K Galvanized EZ-Lube Spindle 545 Bolt Pattern Idler Marine Torsion Axle with V-Bent Center Beam.

#10 TORFLEX® MARINE AXLES	545
DESCRIPTION	
IDLER EZ-LUBE ANY ARM ANGLE	6159511
HYDRAULIC FREEBACKING EZ-LUBE ANY ARM ANGLE	6159514

*Torflex™ Axles are standard low profile and top mount, unless otherwise stated.

Features & Benefits

- Designed for fold-down campers, light utility, and boat trailer applications.
- Totally rubber-cushioned for smooth, quiet, independent ride
- Easy installation with less maintenance
- Less transfer of road shock which insulates cargo from road shocks and vibration
- Rubber cords compounded for maximum dependability and durability
- Load-carrying cross member
- Self-damping action
- Independent wheel suspension system
- 10-year limited warranty on suspension system
- Low profile for maximum road clearance
- Various starting angles to control trailer height
- High and low profile brackets with optional mounting brackets available
- Rubber cushioning eliminates metal-to-metal contact
- Shock absorption provided by the natural hysteresis of rubber
- Single or tandem axle assemblies
- Durable, wear-resistant components

TF10 Beam Only

BEAM EZ-LUBE SPINDLE	6100958
V-BENT EZ-LUBE SPINDLE	6100920

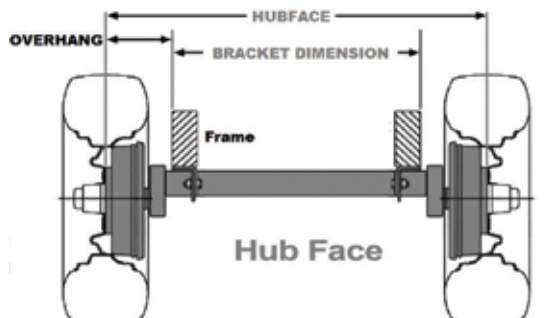
STANDARD FEATURES:

- *1/2"-20 Press-In Wheel Studs and Nuts
- *84F Spindles
- *L68149 Inner Bearings & L44649 Outer Bearings
- *Hub Face up to 96"
- *2.62"OD Square Tube
- *Stainless Steel Wear Sleeves
- *GAL-DEX™ Hubs and Galvanized Beams
- *Brake Flange

UPGRADE OPTIONS:

- *Removable Spindle
- *Side Mount Brackets (Steel or Aluminum)
- *High Profile Brackets
- *Hub Face over 96"
- *V-Drop Center Beam

Difference Between Hub Face and Outside Bracket



	STANDARD SPINDLE
MAXIMUM	21.75"
MINIMUM	13.00"

	SHORT SPINDLE
MAXIMUM	21.75"
MINIMUM	12.00"

NOTE: SEE PAGE A-43 FOR TORFLEX™ #10 APPLICATION INFORMATION (ARTICULATION & FULL LOAD DIMENSIONS AND START ANGLE DIMENSIONS).

MARINE AXLE • D52 5.2K

D52 Marine Round Tube Spring Axle



For illustration only: D52 6K Light Duty EZ-Lube Spindle 655 Bolt Pattern Marine Drum Brake Round Tube Axle.



For illustration only: D52 6K Light Duty EZ-Lube Spindle 655 Bolt Pattern Idler Marine Round Tube Axle.

D52 MARINE AXLES	655
DESCRIPTION	
GALVANIZED IDLER	6159503
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6159504

D52 Beam Only	
BEAM EZ-LUBE SPINDLE	6100954

STANDARD FEATURES:

- *Stainless Steel Wear Sleeves
- *EZ-Lube Spindles Standard on Marine Axles & Beams
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *42F Spindle with 3.00" x 0.191 Round Tube Straight Axles
- *42F Spindle with 3.00" x 0.250 Round Tube on Drop Axles
- *Uses 25580 Inner Bearing and LM67048 (5200), 15123 (6000) or 14125A (865 bolt pattern) Outer Bearing
- *Non-Cambered Axle Beam

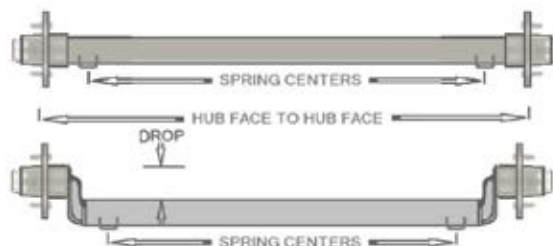
UPGRADE OPTIONS:

- *Cambered Axle Beam
- *V-Bent Center Beam



Difference Between Hub Face and Spring Center

	STRAIGHT
MAXIMUM	19.00"
RECOMMENDED	16.00"
MINIMUM	13.25"
	DROP
MAXIMUM	19.00"
RECOMMENDED	17.75"
MINIMUM	16.50"



MARINE AXLE • D60 6K



D60 Marine Round Tube Spring Axle



For illustration only: D60 6K EZ-Lube Spindle 865 Bolt Pattern Marine Drum Brake Round Tube Axle.

D60 MARINE AXLES	655	865
DESCRIPTION		
GALVANIZED IDLER	6159506	6156711
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6159507	6159508

Note: Leaf Springs support between 1,000 to 7,500 lbs per spring for 2K - 15K axles. There are two springs per axle. Each spring supports 50% of the axle's capacity up to the spring's capacity, i.e., a spring rating of 1,250 lbs is required for a 2,500 lbs capacity rated axle.

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150020-02	2-E5226	3,400	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150022-02	2-HW5116	3,750	2.00"	26.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150034-02	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150024-02	2-E5115	4,000	2.00"	29.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150034-03	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS
9150024-03	2-E5115	4,000	2.00"	29.50"	5	SINGLE AXLE DOUBLE-EYE SPRINGS

HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

STANDARD FEATURES:

- *EZ-Lube Spindles
- *Stainless Steel Wear Sleeves
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *42F Spindle with 3.00" x 0.250 Round Tube on Straight Axles
- *42F Spindle with 3.50" x 0.302 Round Tube on Drop Axles
- *Uses 25580 Inner Bearing and LM67048 (5200), 15123 (6000) or 14125A (865 bolt pattern) Outer Bearing

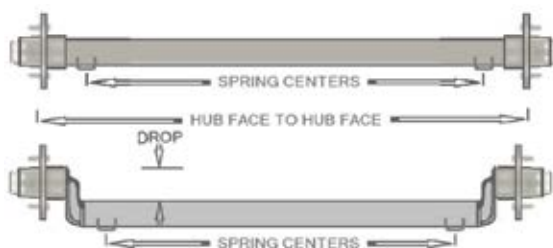
UPGRADE OPTIONS:

- *Non-Cambered Axle Beam
- *Available in a Drop Spindle Axle
- *V-Bent Center Beam

D60 Beam Only

Beam EZ-Lube Spindle	6100955
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Difference Between Hub Face and Spring Center



	STRAIGHT
MAXIMUM	20.00"
RECOMMENDED	16.50"
MINIMUM	13.25"
	DROP
MAXIMUM	20.00"
RECOMMENDED	18.25"
MINIMUM	16.50"

TORFLEX® MARINE TORSION SUSPENSION AXLE • #11 6K



For illustration only: TF11 6K Galvanized EZ-Lube Spindle
655 Bolt Pattern Marine Drum Brake Torsion Axle.



For illustration only: TF11 6K EZ-Lube Spindle
655 Bolt Pattern Idler Marine Torsion Axle.

#11 TORFLEX® MARINE AXLES	655	865
DESCRIPTION		
IDLER EZ-LUBE ANY ARM ANGLE	6159512	6159889
HYDRAULIC FREEBACKING EZ-LUBE ANY ARM ANGLE	6159515	6159890

*Torflex™ Axles are standard low profile and top mount, unless otherwise stated.

Features & Benefits

- Designed for fold-down campers, light utility, and boat trailer applications.
- Totally rubber-cushioned for smooth, quiet, independent ride
- Easy installation with less maintenance
- Less transfer of road shock which insulates cargo from road shocks and vibration
- Rubber cords compounded for maximum dependability and durability
- Load-carrying cross member
- Self-damping action
- Independent wheel suspension system
- 10-year limited warranty on suspension system
- Low profile for maximum road clearance
- Various starting angles to control trailer height
- High and low profile brackets with optional mounting brackets available
- Rubber cushioning eliminates metal-to-metal contact
- Shock absorption provided by the natural hysteresis of rubber
- Single or tandem axle assemblies
- Durable, wear-resistant components

TF10 Beam Only

BEAM EZ-LUBE SPINDLE	6100959
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STANDARD FEATURES:

- *1/2"-20 Press-In Wheel Studs and Nuts
- *42F Spindles
- *Uses 25580 Inner Bearing and LM67048 (5200), 15123 (6000) or 14125A (865 bolt pattern Outer Bearing
- *Hub Face up to 96"
- *3.03"OD Square Tube
- *Stainless Steel Wear Sleeves
- *GAL-DEX™ Hubs and Galvanized Beams
- *Brake Flange

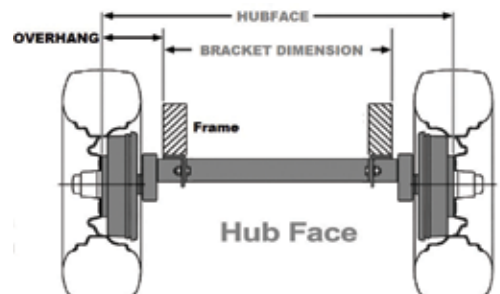
UPGRADE OPTIONS:

- *Removable Spindle
- *Side Mount Brackets (Steel or Aluminum)
- *High Profile Brackets
- *Hub Face over 96"
- *V-Drop Center Beam

Difference Between Hub Face and Outside Bracket

	STANDARD SPINDLE
MAXIMUM	21.00"
MINIMUM	15.00"

	SHORT SPINDLE
MAXIMUM	21.00"
MINIMUM	14.00"



NOTE: SEE PAGE A-45 FOR TORFLEX™ #11 APPLICATION INFORMATION (ARTICULATION & FULL LOAD DIMENSIONS AND START ANGLE DIMENSIONS).

MARINE AXLE • D70 7K

D70 Marine Round Tube Spring Axle



For illustration only: D70 7K EZ-Lube Spindle 865 Bolt Pattern Marine Drum Brake Round Tube Axle.

D70 MARINE AXLES	655	865
DESCRIPTION		
GALVANIZED IDLER	6159907	6159509
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6159908	6159510

D70 Beam Only

BEAM EZ-LUBE SPINDLE	6100956
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SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 3" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150021-02	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS
9150018-02	2-SW5	2,900	1.75"	25.25"	5	SINGLE AXLE DOUBLE-EYE SPRINGS
9150000-02	2-1203T3	3,500	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150020-02	2-E5226	3,400	2.00"	26.50"	5	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150022-02	2-HW5116	3,750	2.00"	26.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150034-02	2-1403T3	4,000	2.00"	26.13"	7	SINGLE AXLE HOOK END SPLIPPER SPRINGS
9150024-02	2-E5115	4,000	2.00"	24.50"	6	SINGLE AXLE HOOK END SPLIPPER SPRINGS

SPRING, AXLE TIE PLATE & U-BOLT KITS FOR 3-1/2" OD AXLE TUBES

ITEM NO.	ID NO.	CAPACITY	WIDTH	LENGTH	LEAVES	DESCRIPTION
9150034-03	2-SW6	3,500	1.75"	25.25"	6	SINGLE AXLE DOUBLE-EYE SPRINGS
9150024-03	2-E5115	4,000	2.00"	29.50"	5	SINGLE AXLE DOUBLE-EYE SPRINGS

HANGER KITS

ITEM NO.	ID NO.	CAPACITY	WIDTH	DESCRIPTION
9100013	APS3	2K-7K	1.75"	SINGLE AXLE DOUBLE-EYE HANGER KIT
9100061	APT5	2K-7K	1.75"	TANDEM AXLE DOUBLE-EYE HANGER KIT
9100017	APTT5	2K-7K	1.75"	TRIPLE AXLE DOUBLE-EYE HANGER KIT
9100018	APS6SE	5.2K-8K	2.00"	SINGLE AXLE SLIPPER SPRING HANGER KIT
9100073-03	APT6SE-LD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100073	APT6SE-MD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100020	APT6SE-HD	5.2K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT
9100119-01	H202-AP202	3.5K-8K	2.00"	TANDEM AXLE SLIPPER SPRING HANGER KIT

NOTE: Spring and U-Bolt Kits and Hanger Kits - requires 1 kit per axle.

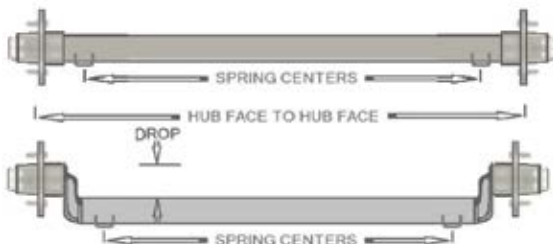
STANDARD FEATURES:

- *Stainless Steel Wear Sleeves
- *EZ-Lube Spindles
- *Hot Dip Galvanized Beam
- *Gal-Dex Coated Hubs & Hub/Drum
- *42F Spindle with 3.00" x 0.250 Round Tube Straight Axles
- *42F Spindle with 3.50" x 0.250 Round Tube on Drop Axles
- *Uses 25580 Inner Bearing and 15123 (655 bolt pattern) or 14125A (865 bolt pattern)
- *Cambered Axle Beam

UPGRADE OPTIONS:

- *3.50" x 0.500 Round Tube Axle
- *V-Bent Center Beam
- *9/16"-18 Press-In Studs and Wheel Nuts

Difference Between Hub Face and Spring Center



	STRAIGHT
MAXIMUM	18.00"
RECOMMENDED	15.50"
MINIMUM	13.25"

	DROP
MAXIMUM	18.00"
RECOMMENDED	17.00"
MINIMUM	15.75"

TORFLEX® MARINE TORSION SUSPENSION AXLE • #12 7K



For illustration only: TF12 7K EZ-Lube Spindle 865 Bolt Pattern Marine Drum Brake Torsion Axle.

#12 TORFLEX® MARINE AXLES	865
DESCRIPTION	
GALVANIZED IDLER	6159513
GALVANIZED HYDRAULIC FREEBACKING BRAKE AXLE	6159517

TF12 Beam Only

BEAM EZ-LUBE SPINDLE	6100960
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*Torflex™ Axles are standard low profile and top mount, unless otherwise stated.

STANDARD FEATURES:

- *1/2"-20 Press-In Wheel Studs and Nuts
- *42F Spindles
- *Uses 25580 Inner Bearing and 15123 (655 bolt pattern) or 14125A (865 bolt pattern)
- *Hub Face up to 96"
- *3.50"OD Square Tube
- *Stainless Steel Wear Sleeves
- *GAL-DEX™ Hubs and Galvanized Beams
- *Brake Flange

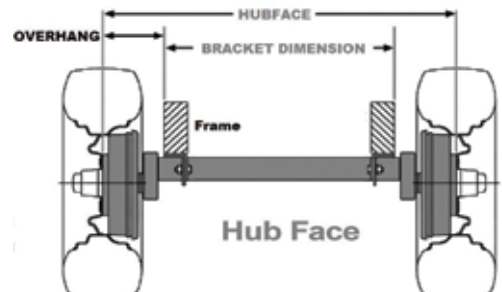
UPGRADE OPTIONS:

- *Removable Spindle
- *Side Mount Brackets (Steel or Aluminum)
- *High Profile Brackets
- *Hub Face over 96"
- *V-Drop Center Beam



Difference Between Hub Face and Outside Bracket

	STANDARD
MAXIMUM	30.50"
RECOMMENDED	22.75"
MINIMUM	15.00"
	SHORT
MAXIMUM	30.50"
RECOMMENDED	22.25"
MINIMUM	14.00"



NOTE: SEE PAGE A-47 FOR TORFLEX™ #12 APPLICATION INFORMATION (ARTICULATION & FULL LOAD DIMENSIONS AND START ANGLE DIMENSIONS).