



Axle Assemblies

We stock a large selection of standard axle assemblies, replacement parts and running gear to fit small to large trailers. We also specialize in custom assemblies. Convenience, quality and economy are the reasons more people are turning to Redneck!

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The following information is to help you make a selection of axles and running gear from our wide range of possible choices; or call your branch and have one of our salespeople assist you in choosing the right products.

How to Select Axles and Running Gear:

1. How to Determine the Gross Vehicle Weight (GVW)

When building a trailer, the total Gross Vehicle Weight (GVW) must be determined in order to select the right axle or axles for the application. GVW includes the weight of the empty trailer and the weight of the intended cargo. (Example: 2,000 lb. empty trailer weight + 8,000 lbs. cargo = GVW of 10,000 lbs.)

2. How Many Axles?

After determining the GVW, the number and capacity of the axles must be selected. For example, if you want 10,000 lb. GVW and want tandem axles, the minimum required capacity is 6,000 lb. per axle.

3. Brakes?

First, determine if you want brakes on each axle. Most states require by law that at least one axle has brakes. Some states require that all axles have brakes. To determine how many brakes are necessary in a state, contact the local Department of Motor Vehicles. Second, determine what type of brake you prefer: Electric, Hydraulic Single-Serve, Hydraulic Free-Backing, Hydraulic Duo-Serve, Hydraulic Disc or Air "S" Cam Brakes?

4. Which Type of Spindles Are Going To Be Required?

Straight spindles are used mostly when the bed is over the tires or when low ground clearance is not required. Examples are flat beds, pull-type utility trailers, etc.

Drop spindles are used when the lowest possible ground clearance is desired. Examples are Livestock and Horse Trailers, Car Haulers, Enclosed Cargo Van Trailers, etc.

5. What Are the Spring Centers?

Spring Centers are the CL (centerline) measurement of the Spring Mounting Pads on the axle. Spring centers are usually matched to the approximate frame width of the trailer.

6. Which Bolt Pattern?

The Bolt Pattern of the axles can vary depending on the capacity of the axle. The Bolt Pattern also determines what type tire and wheel can be used. If there is a specific tire and wheel you would like to use, please relay that information so we can help you to determine the proper bolt pattern and axle.

7. What is the Length of the Axle?

The next step is to determine the length of the axle. Of the several ways and industry terms to describe this procedure, the most popular term is "Hub Face," which is the measurement from the base of the wheel stud to the base of the wheel stud on the opposite end of the axle. Another term frequently used is "Track". Track is the center of the tire to the center of the opposite tire. This measurement varies depending on what type of wheel is used, because each type of wheel (White Spoke, O.E.M., Custom) could have a different off-set, changing the tire center.

8. Which Type of Springs?

There are two basic types of springs to choose from: **Double Eye** or **Slipper Springs**. **Double Eye Springs** are used with the shackle-type suspensions. **Slipper Springs** are the heavy-duty springs used with slipper-type suspensions. Complete sets of springs and u-bolt kits can be ordered with axles.

9. Which Hanger Kit?

There are several Hanger Kits to choose from - single, tandem or triple for both double eye and slipper springs. Hanger Kits consist of Spring Hangers that attach to the frame, Equalizers (tandem or triple Hanger Kits), Shackle Straps (if double eye springs) and all the necessary hardware.

**DEXTER AXLE**

How To Order Tubular Axle Assemblies

Our part numbers for Axles are assigned in accordance to the capacity, bolt pattern, type of brakes (if any) and type of spindle used. When ordering axles, the following information should be helpful to you.

EX: 20545I-ST-EZ 2,000 lb., 5 on 4 1/2" Idler Straight with E-Z Lube

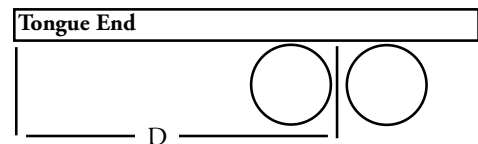
20 / 545 / I / ST / EZ

- 20:** The first group of digits represent the capacity (20 = 2,000 lb. capacity)
545: The next group represents the number of studs and the bolt pattern of the studs (545 = 5 on 4 1/2", 655 = 6 on 5 1/2", 865 = 8 on 6 1/2", etc.)
I: This tells you which type of brakes are used, if any.
 (I = Idler, E = Electric, H = Hydraulic, HFB = Hydraulic Free-Backing, DS = Disc, A = Air)
ST: This tells you which type of spindles are used (ST = straight, 4D = 4" Drop)
EZ: Any other options (EZ = E-Z Lube Spindle, SPR = Springs Mounted)



How to Determine Correct Axle Position

1. Weigh the trailer (under wheels) "Wheel Weight"
2. Obtain "Tongue Weight" (Actual)
3. Measure distance from tongue to axle, or to center between Dual Axle Set (D)
4. Determine Total Weight
 Total Weight = Tongue Weight + Wheel Weight



If tongue weight is greater than 10% of Total Weight

If tongue weight is greater than 10% of Total Weight, decrease distance "D" by "X" where

$$X = \frac{(\text{Tongue Weight} - 10\% \text{ Total})}{\text{Total Weight}} \text{ Times } D$$

Example #1 - Tongue greater than 10% of Total Weight

Tongue Weight = 1025#
 Wheel Weight = 7200#
 D = 264"
 Total Weight = 8225#
 % Tongue Weight = $\frac{1025}{8225} = 0.1246$ or 12 1/2%
 "X" = $\frac{1025 - 822.5}{8225} \text{ Times } 264 = 6.499$
 8225

Move the Axle(s) toward the Tongue of the trailer approximately 6 1/2"

$$\text{New D} = D - 6 \frac{1}{2} = 264 - 6 \frac{1}{2} = 257.5"$$

If tongue weight is less than 10% of Total Weight

If tongue weight is less than 10% of Total Weight, increase distance "D" by "X" where

$$X = \frac{(10\% \text{ Total} - \text{Tongue Weight})}{\text{Total Weight}} \text{ Times } D$$

Example #2 - Tongue less than 10% of Total Weight

Tongue Weight = 300#
 Wheel Weight = 8200#
 D = 264"
 Total Weight = 8500#
 % Tongue Weight = $\frac{300}{8500} = 0.035$ or 3 1/2%
 "X" = $\frac{850 - 300}{8500} \text{ Times } 264 = 17$
 8500

Move the Axle(s) toward the Rear of the trailer approximately 17"

$$\text{New D} = D + 17 = 264 + 17 = 281"$$

The Protective Wiring Connector!



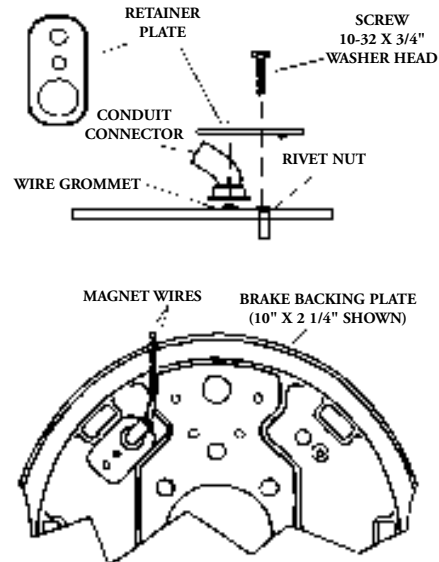
The *primary cause of electric brake failure* is a loose or corroded connection in the brake wiring. The weakest point of the wiring connection is located under the trailer, at the axle, where the magnet wires exit the brake. Over time, the outer covering of the wires will become brittle and crack/break, exposing the wires, allowing the wires to short circuit against the trailer frame, axle, or against each other.

What is a protective wiring connector? It is an adjustable connector that attaches directly to the brake backing plate and allows you to attach most types of 1/2" I.D. conduit or loom to protect against rocks, dirt, snow, brush, etc.

This protective wiring connector may be ordered as a kit to retrofit existing axles (part # PWC1012), or may be pre-installed at the factory on new Dexter Axle assemblies for a minimal charge.

(Note: Axles ordered with the PWC option factory installed will not have the internal brake wiring inside the axle tube.)
Protective Wiring Connector fits only Dexter Electric Brakes.

INSTALLATION DIAGRAM



ABS by

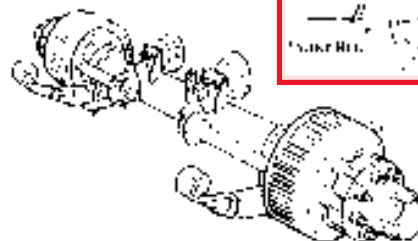
**8,000 lb thru 25,000 lb Axles can be supplied ABS equipped,
with sensors and exciter rings pre-installed.**

Regulation

All trailer with air brakes, manufactured after March 1, 1998, must have ABS in order to comply with FMVSS 571.121. This standard also applies to air-over-hydraulic brake systems.

Required Equipment

An ABS system consists of wheel sensors that send electric impulses to an Electronic Control Unit (ECU) which pulses the service brakes in the event of wheel lockup. The minimum ABS configuration for a tandem axle trailer is a 2S/1M. This indicates two wheel sensors will be connected to and monitored by the ECU, and one modulator valve will control the service brakes. 4S/2M ABS configuration is also available from Redline.



See pages A-17 thru A-23 and A-38 thru A-40 for axles, and L-14 thru L-15 for ABS control kits

Nev-R-Lube

No need to pull the hubs to repack the bearings!
No need to replace seals when you check the brakes!
No more inner and outer bearings!

Pre-set Adjustments.

Ease of installation. Human error is virtually eliminated in bearing adjustment.

Pre-Lubricated at the Bearing Factory.

Resistant to contamination.

Sealed for Life.

No bearing maintenance. Increased durability and reliability.

Lower maintenance cost.

5-year or 100,000 miles warranty against defects in material or workmanship.



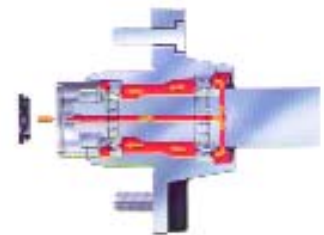
Available in 35mm cartridge, 42mm cartridge and 50mm cartridge.
See pages A8 thru A17 and A32 thru A38 for specific application.

Lubricate the E-Z Lube Way!



Keep bearings protected the easy way. Use the E-Z Lube Axle from Dexter.

The E-Z Lube design allows grease to flow with EASE to both outer and inner bearings for a complete repack. It's E-Z because all you need to do is attach a grease gun at the end and insert the grease. No disassembly required! E-Z Lube's end cap allows for easy access, extra protection and no mess.



With such complete lubrication, your running gear is protected from corrosion and water entry. E-Z Lube protection and maintenance features make it ideal for almost any towable axle, whether it's for work or play.

Give your running gear the ultimate in protection and maintenance ease with E-Z Lube from Dexter!

2,000 lb



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table on A-7)

- Double Eye versions
- Slipper Eye versions

(Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 4 on 4"
- 5 on 4 1/2" – 5 Bolt available with:
5 1/2" Hub Flange – For 8" - 12" Wheels
6 1/2" Hub Flange – For 12" - 15" Wheels

Brake Options: With or without parking feature.

- 7" x 1 1/4" Electric
- 7" x 1 3/4" Hydraulic Single Servo

Spindles: BTR Spindle, 1 1/16",

Uses L44649 Inner and Outer Bearings

- Straight
- 4" Drop

Tubing:

- 1 3/4" OD .180 wall (straight spindle only)
- 2 3/8" OD .156 wall (drop spindle only)

Lubrication:

- Grease
- E-Z Lube

Wheel Assemblies: See Section E

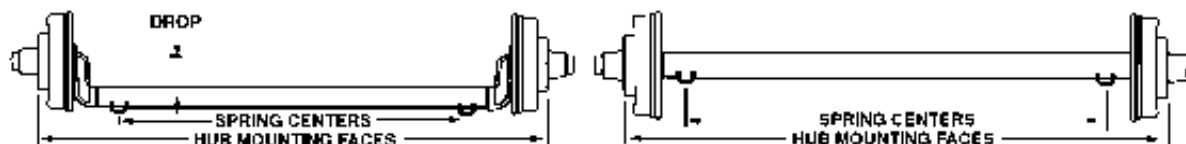
Replacement Parts:

Idler Hub: See Page B-12 and B-13

Hub/Drums: See Page B-18 and B-20

Brakes: See Page C-9 (Electric),
Page C-25 (Hydraulic)

Axle Beams: See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	11.50"	14.75"	15.25"
Drop	15.25"	16.00"	18.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

2,000 lb. Axle Option

Part No.	Ref No.	Description
XTRA-HF-2K	002450	EXTRA CHARGE (PER AXLE) FOR 2K AXLES OVER 96" HF

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

2,000 lb. Axle Assemblies

Axle Type	4 on 4"	5 on 4 1/2"
Idler		
Idler Straight	20440I-ST	20545I-ST
Idler Straight E-Z Lube	20440I-ST-EZ	20545I-ST-EZ
Idler 4" Drop	20440I-4D	20545I-4D
Idler E-Z Lube 4" Drop	20440I-4D-EZ	20545I-4D-EZ
Electric		
Electric Straight	20440E-ST	20545E-ST
Electric Straight E-Z Lube	20440E-ST-EZ	20545E-ST-EZ
Electric 4" Drop	20440E-4D	20545E-4D
Electric E-Z Lube 4" Drop	20440E-4D-EZ	20545E-4D-EZ
Single Servo Hydraulic		
Single Servo Hydraulic Straight	20440H-ST	20545H-ST
Single Servo Hydraulic Straight E-Z Lube	20440H-ST-EZ	20545H-ST-EZ
Single Servo Hyd 4" Drop	20440H-4D	20545H-4D
Single Servo Hyd E-Z Lube 4" Drop	20440H-4D-EZ	20545H-4D-EZ


Spring and U-bolt Kits for 2,000 lb. Axles (Sold Separately)

Part No.	Ref. No.	Per Spring Cap.	Length	Type	No. of Leaves
2-1020	003200	1,000 LB.	20 3/8"	Double Eye	3
2-1020-4D	003250	1,000 LB.	20 3/8"	Double Eye	3
2-PR-722	003460	1,250 LB.	25 1/4"	Double Eye	3
2-PR-722-4D	003470	1,250 LB.	25 1/4"	Double Eye	3
2-WIC2	003600	500 LB.	23 1/8"	Slipper	2
2-WIC2-4D	003650	500 LB.	23 1/8"	Slipper	2
2-WIE3	003800	750 LB.	23 1/8"	Slipper	3
2-WIE3-4D	003850	750 LB.	23 1/8"	Slipper	3
2-WIH4	004000	1,000 LB.	23 1/8"	Slipper	4
2-WIH4-4D	004050	1,000 LB.	23 1/8"	Slipper	4
2-WID2	004200	1,000 LB.	27 3/8"	Slipper	2
2-WID2-4D	004250	1,000 LB.	27 3/8"	Slipper	2
2-WIF3	004400	1,500 LB.	27 3/8"	Slipper	3
2-WIF3-4D	004450	1,500 LB.	27 3/8"	Slipper	3
2-WIG4	004600	1,750 LB.	27 3/8"	Slipper	4
2-WIG4-4D	004650	1,750 LB.	27 3/8"	Slipper	4



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table on A-9)

- Double Eye versions
- Slipper Eye versions
- (Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 5 on 4 1/2", 4 3/4", 5", and 5 1/2"
- 6 on 5 1/2"

Brake Options: With or without parking feature.

- 10" x 2 1/4" Electric
- 10" x 2 1/4" Hydraulic (Single Servo or Freebacking)
- Hydraulic Disc: 5 on 4 1/2" only

Spindles: TTH (#84) Spindle

Uses L68149 Inner Bearing, L44649 Outer Bearing.

- Straight
- Drop: 4" or 6"

Tubing:

- 2 3/8" OD .180 wall (Standard)
- Optional – 3" OD .180 wall

Lubrication: • Grease • E-Z Lube • Nev-R-Lube

Wheel Assemblies: See Section E

Replacement Parts:

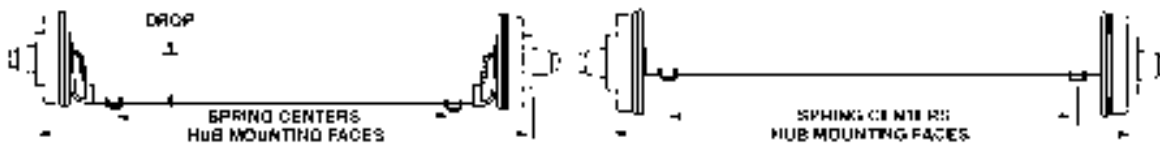
Idler Hub: See Page B-14

Hub/Drums: See Page B-21, B-33 (Nev-R-Lube)

Hub/Rotor: See Page B-35

Brakes: See Page C-10 (Electric),
Page C-26 (Hydraulic Drum)
Page B-35 (Hydraulic Disc)

Axle Beams: See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	11.25" (Disc=15.00")	16.00"	18.00"
4" Drop	14.00" (Disc=15.00")	16.50"	18.00"
3" Tube Straight	11.25"	16.50"	23.00"
3" Tube 4" Drop	14.00"	16.50"	23.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

3500 LB. Axle Options

Part No.	Ref No.	Description
10-PWC	013620	EXTRA CHARGE FOR 3500 LB ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-3.5K	013625	EXTRA CHARGE (PER AXLE) FOR 3500 LB AXLE OVER 96" HUBFACE

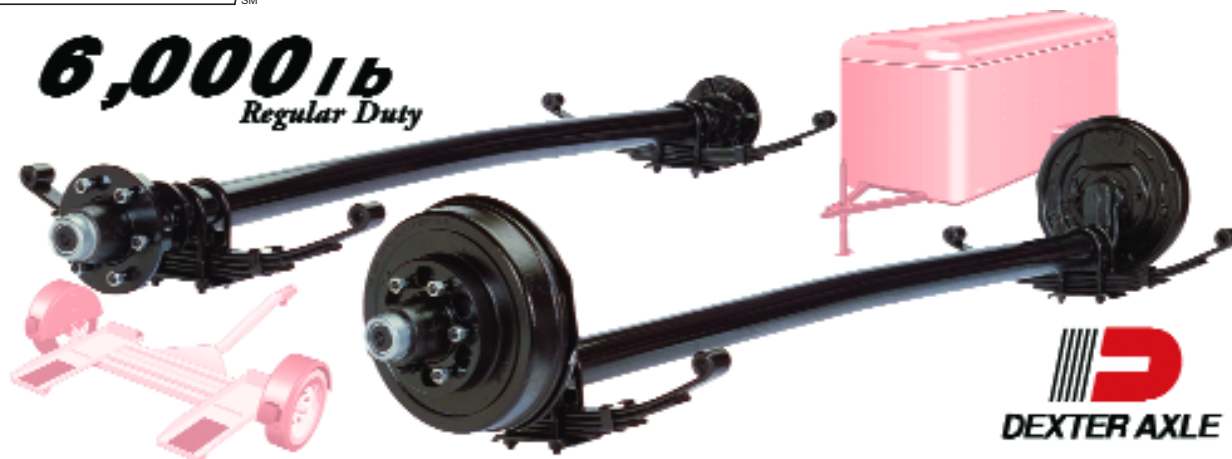
For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

3500 lb. Axle Assemblies					
Axle Type Idler	5 on 4 1/2"	5 on 4 3/4"	5 on 5"	5 on 5 1/2"	6 on 5 1/2"
Straight	35545I-ST	355475I-ST	35550I-ST	35555I-ST	35655I-ST
Straight E-Z Lube	35545I-ST-EZ	355475I-ST-EZ	35550I-ST-EZ	35555I-ST-EZ	35655I-ST-EZ
4" Drop	35545I-4D	355475I-4D	35550I-4D	35555I-4D	35655I-4D
E-Z Lube 4" Drop	35545I-4D-EZ	355475E-4D-EZ	35550E-4D-EZ	35555E-4D-EZ	35655I-4D-EZ
Electric					
Straight	35545E-ST	355475E-ST	35550E-ST	35555E-ST	35655E-ST
Straight E-Z Lube	35545E-ST-EZ	355475E-ST-EZ	35550E-ST-EZ	35555E-ST-EZ	35655E-ST-EZ
Straight Nev-R-Lube	N/A	N/A	N/A	N/A	35655E-ST-NL
4" Drop	35545E-4D	355475E-4D	35550E-4D	35555E-4D	35655E-4D
4" Drop E-Z Lube	35545E-4D-EZ	355475E-4D-EZ	35550E-4D-EZ	35555E-4D-EZ	35655E-4D-EZ
Single Servo Hydraulic					
Straight	35545H-ST	355475H-ST	35550H-ST	35555H-ST	35655H-ST
Straight E-Z Lube	35545H-ST-EZ	355475H-ST-EZ	35550H-ST-EZ	35555H-ST-EZ	35655H-ST-EZ
Straight Nev-R-Lube	N/A	N/A	N/A	N/A	35655H-ST-NL
4" Drop	35545H-4D	355475H-4D	35550H-4D	35555H-4D	35655H-4D
4" Drop E-Z Lube	35545H-4D-EZ	355475H-4D-EZ	35550H-4D-EZ	35555H-4D-EZ	35655H-4D-EZ
Hydraulic Freeback					
Straight	35545HFB-ST	355475HFB-ST	35550HFB-ST	35555HFB-ST	35655HFB-ST
Straight E-Z Lube	35545HFB-ST-EZ	355475HFB-ST-EZ	35550HFB-ST-EZ	35555HFB-ST-EZ	35655HFB-ST-EZ
Straight Nev-R-Lube	N/A	N/A	N/A	N/A	35655HFB-ST-NL
4" Drop	35545HFB-4D	355475HFB-4D	35550HFB-4D	35555HFB-4D	35655HFB-4D
4" Drop E-Z Lube	35545HFB-4D-EZ	355475HFB-4D-EZ	35550HFB-4D-EZ	35555HFB-4D-EZ	35655HFB-4D-EZ
Hydraulic Disc					
Straight	35545DS-ST	N/A	N/A	N/A	N/A
Straight E-Z Lube	35545DS-ST-EZ	N/A	N/A	N/A	N/A
Straight Nev-R-Lube	N/A	N/A	N/A	N/A	N/A
4" Drop	35545DS-4D	N/A	N/A	N/A	N/A
4" Drop E-Z Lube	35545DS-4D-EZ	N/A	N/A	N/A	N/A


Spring and U-bolt Kits available for 3,500 lb. Axles (Sold Separately)

Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-PR3	014600	1,750 lb.	25 1/4"	Double Eye	3
2-PR4B	014800	1,750 lb.	25 1/4"	Double Eye	4
2-PR4	015000	2,400 lb.	25 1/4"	Double Eye	4
2-803T3	015200	2,000 lb.	25 7/8"	Slipper	4



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table on A-11)

- Double Eye versions
- Slipper Eye versions
- (Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 6 on 5 1/2"
- 8 on 6 1/2"
- UTG 5-Spoke

Brake Options:

- With or without parking feature.
- 12" x 2" Electric or Hydraulic, Single Servo, Freebacking, or Duo Servo.
- Hydraulic Disc: 6 on 5 1/2" only

Spindles:

TTA (#42) Spindle, with 2 1/4" seal journal.
Uses 25580 Inner Bearing,
Uses LM67048, 15123, or 14125A Outer Bearing.

Tubing:

- 3" OD .180 wall

Lubrication:

- Grease • E-Z Lube • Oil Bath • Nev-R-Lube

Wheel Assemblies:

See Section E

Replacement Parts:

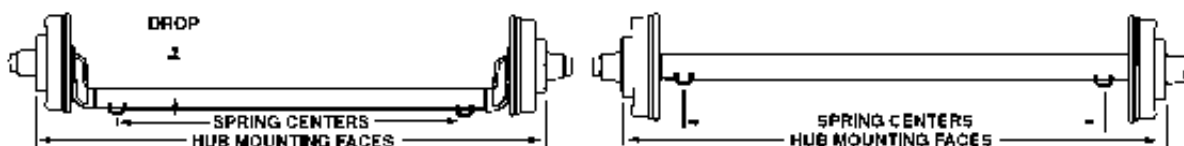
Idler Hub: See Page B-15 and B-16

Hub/Drums: See Page B-22 – B-24, B-34(Nev-R-Lube)

Hub/Rotor: See Page B-36

Brakes: See Page C-11 (Electric),
Page C-27 & C-28 (Hydraulic Drum)
Page B-36 (Hydraulic Disc)

Axle Beams: See Page B-2



Axle Type	Difference Between Hub Face and Spring Center		
	Minimum	Recommended	Maximum
*Straight	12.75" (Disc=18.00")	15.00"	15.00"
Drop	15.75" (Disc=18.00")	17.50"	17.50"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

* Overhang on straight disc derates axle tubing capacity to 5,200 lb.

6,000 lb. Axle Options

Part No.	Ref. No.	Description
12-PWC	022735	EXTRA CHARGE FOR 6K ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-60R	018472	EXTRA CHARGE (PER AXLE) FOR 6K AXLES OVER 96" HUBFACE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

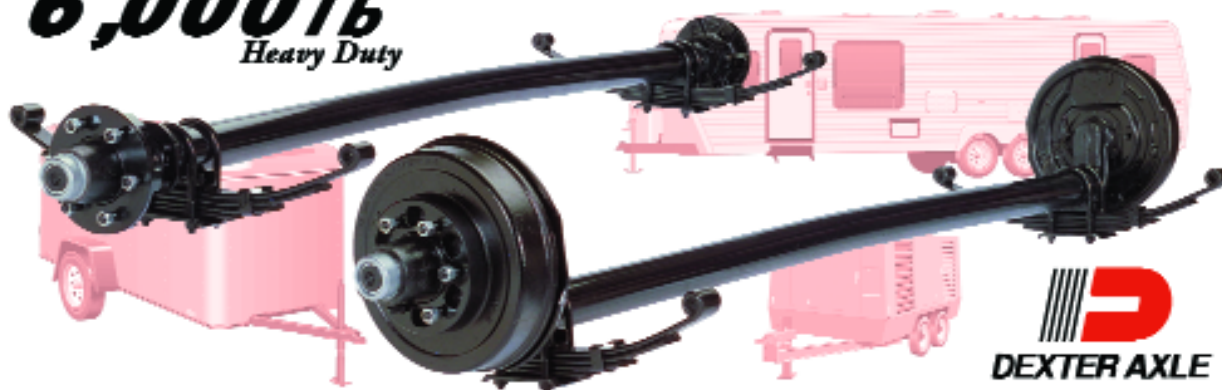
6000 lb. Regular Duty Axles Assemblies

Axle Type	6 on 5 1/2"	8 on 6 1/2"	UTG 5-SPOKE
Idler			
Straight	60R655I-ST	60R865I-ST	60RUTGI-ST
Straight E-Z Lube	60R655I-ST-EZ	60R865I-ST-EZ	60RUTGI-ST-EZ
Straight Oil Bath	N/A	60R865I-ST-OIL	60RUTOI-ST-OIL
4" Drop	60R655I-4D	60R865I-4D	60RUTGI-4D
4" Drop E-Z Lube	60R655I-4D-EZ	60R865I-4D-EZ	60RUTGI-4D-EZ
4" Drop Oil Bath	N/A	60R865I-4D-OIL	60RUTOI-4D-OIL
Electric			
Straight	60R655E-ST	60R865E-ST	60RUTGE-ST
Straight E-Z Lube	60R655E-ST-EZ	60R865E-ST-EZ	60RUTGE-ST-EZ
Straight Oil Bath	N/A	60R865E-ST-OIL	60RUTOE-ST-OIL
Straight Nev-R-Lube	60R655E-ST-NL	N/A	N/A
4" Drop	60R655E-4D	60R865E-4D	60RUTGE-4D
4" Drop E-Z Lube	60R655E-4D-EZ	60R865E-4D-EZ	60RUTGE-4D-EZ
4" Drop Oil	N/A	60R865E-4D-OIL	60RUTOE-4D-OIL
Single Servo Hydraulic			
Straight	60R655H-ST	60R865H-ST	60RUTGH-ST
Straight E-Z Lube	60R655H-ST-EZ	60R865H-ST-EZ	60RUTGH-ST-EZ
Straight Nev-R-Lube	60R655H-ST-NL	N/A	N/A
Straight Oil Bath	N/A	60R865H-ST-OIL	60RUTOH-ST-OIL
4" Drop	60R655H-4D	60R865H-4D	60RUTGH-4D
4" Drop E-Z Lube	60R655H-4D-EZ	60R865H-4D-EZ	60RUTGH-4D-EZ
4" Drop Oil	N/A	60R865H-4D-OIL	60RUTOH-4D-OIL
Single Servo Hydraulic Freeback			
Straight	60R655HFB-ST	60R865HFB-ST	60RUTGHFB-ST
Straight E-Z Lube	60R655HFB-ST-EZ	60R865HFB-ST-EZ	60RUTGHFB-ST-EZ
Straight Nev-R-Lube	60R655HFB-ST-NL	N/A	N/A
Straight Oil Bath	N/A	60R865HFB-ST-OIL	60RUTOHFB-ST-OIL
4" Drop	60R655HFB-4D	60R865HFB-4D	60RUTGHFB-4D
4" Drop E-Z Lube	60R655HFB-4D-EZ	60R865HFB-4D-EZ	60RUTGHFB-4D-EZ
4" Drop Oil Bath	N/A	60R865HFB-4D-OIL	60RUTOHFB-4D-OIL
Duo Servo Hydraulic			
Straight	60R655HY-ST	60R865HY-ST	60RUTGHY-ST
Straight E-Z Lube	60R655HY-ST-EZ	60R865HY-ST-EZ	60RUTGHY-ST-EZ
Straight Nev-R-Lube	60R655HY-ST-NL	N/A	N/A
Straight Oil Bath	N/A	60R865HY-ST-OIL	60RUTOHY-ST-OIL
4" Drop	60R655HY-4D	60R865HY-4D	60RUTGHY-4D
4" Drop E-Z Lube	60R655HY-4D-EZ	60R865HY-4D-EZ	60RUTGHY-4D-EZ
4" Drop Oil	N/A	60R865HY-4D-OIL	60RUTOHY-4D-OIL
Hydraulic Disc			
Straight	60R655DS-ST	N/A	N/A
Straight E-Z Lube	60R655DS-ST-EZ	N/A	N/A
Straight Nev-R-Lube	60R655DS-ST-NL	N/A	N/A
Straight Oil Bath	N/A	N/A	N/A
4" Drop	60R655DS-4D	N/A	N/A
4" Drop E-Z Lube	60R655DS-4D-EZ	N/A	N/A
4" Drop Oil	N/A	N/A	N/A


Spring and U-bolt Kits available for 6,000 lb. Axles (Sold separately)

Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-PR5	023000	2,900 lb.	25 1/4"	Double Eye	5
2-PR6	023100	3,300 lb.	24 7/8"	Double Eye	6
2-E5226	023200	3,000 lb.	25 1/4"	Slipper	5
2-1203T3	023300	3,500 lb.	24"	Slipper	5
2-1403T3	023400	4,000 lb.	24"	Slipper	7
2-E5115	023600	4,000 lb.	27 1/2"	Slipper	6

6,000 lb
Heavy Duty



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table on A-13)

- Double Eye versions
 - Slipper Eye versions
- (Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 6 on 5 1/2"
- 8 on 6 1/2"
- UTG 5-Spoke

Brake Options:

- With or without parking feature.
- 12" x 2" Electric or Hydraulic, Single Servo, Freebacking, or Duo Servo.
- Hydraulic Disc: 6 on 5 1/2" only

Spindles:

UTA (#42) Spindle, with 2 1/4" seal journal.

Uses 25580 Inner Bearing,

Uses LM67048, 15123, or 14125A Outer Bearing.

- Straight • 4" Drop

Tubing:

- 3" OD .250 wall; optional 3.5" OD .50 wall for Air-Ride

Lubrication:

- Grease • E-Z Lube • Oil Bath • Nev-R-Lube

Wheel Assemblies:

See Section E

Replacement Parts:

Idler Hub: See Page B-15 and B-16

Hub/Drums: See Page B-22 - B-24, B-34(Nev-R-Lube)

Hub/Rotor: See Page B-36

Brakes: See Page C-11 (Electric),
Page C-27 & C-28 (Hydraulic Drum)
Page B-36 (Hydraulic Disc)

Axle Beams: See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	12.75" (Disc=18.00")	16.25"	20.00"
Drop	15.75" (Disc=18.00")	18.00"	20.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

6,000 lb. Axle Options

Part No.	Ref. No.	Description
12-PWC	022735	EXTRA CHARGE FOR 6K ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-6K	020145	EXTRA CHARGE (PER AXLE) FOR 6K AXLES OVER 96" HUBFACE
ADD-6KHD-WALL	020150	ADD-ON FOR 6K AXLE, 3.5" OD .5" WALL TUBING FOR AIR-RIDE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

6,000 lb. Heavy Duty Axle Assemblies

Axle Type	6 on 5 1/2"	8 on 6 1/2"	UTG 5 Spoke
Idler			
Straight	60655I-ST	60865I-ST	60UTGI-ST
Straight E-Z Lube	60655I-ST-EZ	60865I-ST-EZ	60UTGI-ST-EZ
Straight Oil Bath	N/A	60865I-ST-OIL	60UTOI-ST-OIL
4" Drop	60655I-4D	60865I-4D	60UTGI-4D
4" Drop E-Z Lube	60655I-4D-EZ	60865I-4D-EZ	60UTGI-4D-EZ
4" Drop Oil Bath	N/A	60865I-4D-OIL	60UTOI-4D-OIL
Electric			
Straight	60655E-ST	60865E-ST	60UTGE-ST
Straight E-Z Lube	60655E-ST-EZ	60865E-ST-EZ	60UTGE-ST-EZ
Straight Nev-R-Lube	60655E-ST-NL	60865E-ST-NL	N/A
Straight Oil Bath	N/A	60865E-ST-OIL	60UTOE-ST-OIL
4" Drop	60655E-4D	60865E-4D	60UTGE-4D
4" Drop E-Z Lube	60655E-4D-EZ	60865E-4D-EZ	60UTGE-4D-EZ
4" Drop Oil Bath	N/A	60865E-4D-OIL	60UTOE-4D-OIL
Single Servo Hydraulic			
Straight	60655H-ST	60865H-ST	60UTGH-ST
Straight E-Z Lube	60655H-ST-EZ	60865H-ST-EZ	60UTGH-ST-EZ
Straight Nev-R-Lube	60655H-ST-NL	60865H-ST-NL	N/A
Straight Oil Bath	N/A	60865H-ST-OIL	60UTOH-ST-OIL
4" Drop	60655H-4D	60865H-4D	60UTGH-4D
4" Drop E-Z Lube	60655H-4D-EZ	60865H-4D-EZ	60UTGH-4D-EZ
4" Drop Oil Bath	N/A	60865H-4D-OIL	60UTOH-4D-OIL
Single Servo Hydraulic Freeback			
Straight	60655HFB-ST	60865HFB-ST	60UTGHFB-ST
Straight E-Z Lube	60655HFB-ST-EZ	60865HFB-ST-EZ	60UTGHFB-ST-EZ
Straight Nev-R-Lube	60655HFB-ST-NL	60865HFB-ST-NL	N/A
Straight Oil Bath	N/A	60865HFB-ST-OIL	60UTOHFB-ST-OIL
4" Drop	60655HFB-4D	60865HFB-4D	60UTGHFB-4D
4" Drop E-Z Lube	60655HFB-4D-EZ	60865HFB-4D-EZ	60UTGHFB-4D-EZ
4" Drop Oil Bath	N/A	60865HFB-4D-OIL	60UTOHFB-4D-OIL
Duo Servo Hydraulic			
Straight	60655HY-ST	60865HY-ST	60UTGHY-ST
Straight E-Z Lube	60655HY-ST-EZ	60865HY-ST-EZ	60UTGHY-ST-EZ
Straight Nev-R-Lube	60655HY-ST-NL	60865HY-ST-NL	N/A
Straight Oil Bath	N/A	60865HY-ST-OIL	60UTOHY-ST-OIL
4" Drop	60655HY-4D	60865HY-4D	60UTGHY-4D
4" Drop E-Z Lube	60655HY-4D-EZ	60865HY-4D-EZ	60UTGHY-4D-EZ
4" Drop Oil Bath	N/A	60865HY-4D-OIL	60UTOHY-4D-OIL
Hydraulic Disc			
Straight	60655DS-ST	N/A	N/A
Straight E-Z Lube	60655HY-ST-EZ	N/A	N/A
Straight Nev-R-Lube	60655DS-ST-NL	N/A	N/A
Straight Oil Bath	N/A	N/A	N/A
4" Drop	60655DS-4D	N/A	N/A
4" Drop E-Z Lube	60655DS-4D-EZ	N/A	N/A
4" Drop Oil Bath	N/A	N/A	N/A


Spring and U-bolt Kits available for 6,000 lb. Axles (Sold separately)

Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-PR5	023000	2,900 lb.	25 1/4"	Double Eye	5
2-PR6	023100	3,300 lb.	25 1/4"	Double Eye	6
2-E5226	023200	3,000 lb.	25 1/4"	Slipper	5
2-1203T3	023300	3,500 lb.	24"	Slipper	5
2-1403T3	023400	4,000 lb.	24"	Slipper	7
2-E5115	023600	4,000 lb.	27 1/2"	Slipper	6

7,000 lb



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table on next page)

- Double Eye versions
- Slipper Eye versions
- (Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 8 on 6 1/2"
- UTG 5-Spoke

Brake Options:

- With or without parking feature.
- 12" x 2" Electric or Hydraulic, Single Servo, Freebacking, or Duo Servo

Spindles:

- UTA (#42) Spindle, with 2 1/4" seal journal.
 Uses 25580 Inner Bearing,
 Uses 67048, 15123, or 14125A Outer Bearing.
- Straight • 4" Drop

Tubing:

- 3" OD .250 wall; optional 3.5" OD .50 wall for Air-Ride

Lubrication:

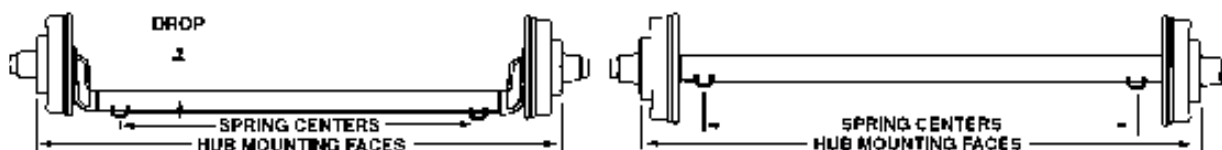
- Grease • E-Z Lube • Oil Bath • Nev-R-Lube

Wheel Assemblies:

See Section E

Replacement Parts:

- Idler Hub:** See Page B-16
Hub/Drums: See Page B-24, B-34 (Nev-R-Lube)
Brakes: See Page C-11 (Electric),
 Page C-27 & C-28 (Hydraulic)
Axle Beams: See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	12.75"	16.25"	18.00"
Drop	15.75"	17.75"	18.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

7,000 lb. Axle Options

Part No.	Ref. No.	Description
12-PWC	022735	EXTRA CHARGE FOR 6K ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-7K	022730	EXTRA CHARGE (PER AXLE) FOR 7K AXLES OVER 96" HUBFACE
ADD-7KHD-WALL	022736	ADD ON FOR 7K AXLE, 3.5" OD .5" WALL TUBING FOR AIR-RIDE
ADD-7KHD-302WALL	022734	ADD ON FOR 7K AXLE, 3" OD .302" WALL TUBING FOR AIR-RIDE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

7,000 lb. Axle Assemblies		
Axle Type	8 on 6 1/2"	UTG 5 Spoke
Idler		
Straight	70865I-ST	70UTGI-ST
Straight E-Z Lube	70865I-ST-EZ	70UTGI-ST-EZ
Straight Oil Bath	70865I-ST-OIL	70UTOI-ST-OIL
4" Drop	70865I-4D	70UTGI-4D
4" Drop E-Z Lube	70865I-4D-EZ	70UTGI-4D-EZ
4" Drop Oil Bath	70865I-4D-OIL	70UTOI-4D-OIL
Electric		
Straight	70865E-ST	70UTGE-ST
Straight E-Z Lube	70865E-ST-EZ	70UTGE-ST-EZ
Straight Nev-R-Lube	70865E-ST-NL	N/A
Straight Oil Bath	70865E-ST-OIL	70UTOE-ST-OIL
4" Drop	70865E-4D	70UTGE-4D
4" Drop E-Z Lube	70865E-4D-EZ	70UTGE-4D-EZ
4" Drop Oil Bath	70865E-4D-OIL	70UTOE-4D-OIL
Single Servo Hydraulic		
Straight	70865H-ST	70UTGH-ST
Straight E-Z Lube	70865H-ST-EZ	70UTGH-ST-EZ
Straight Nev-R-Lube	70865H-ST-NL	N/A
Straight Oil Bath	70865H-ST-OIL	70UTOH-ST-OIL
4" Drop	70865H-4D	70UTGH-4D
4" Drop E-Z Lube	70865H-4D-EZ	70UTGH-4D-EZ
4" Drop Oil Bath	70865H-4D-OIL	70UTOH-4D-OIL
Single Servo Hydraulic Freeback		
Straight	70865HFB-ST	70UTGHFB-ST
Straight E-Z Lube	70865HFB-ST-EZ	70UTGHFB-ST-EZ
Straight Nev-R-Lube	70865HFB-ST-NL	N/A
Straight Oil Bath	70865HFB-ST-OIL	70UTOHFB-ST-OIL
4" Drop	70865HFB-4D	70UTGHFB-4D
4" Drop E-Z Lube	70865HFB-4D-EZ	70UTGHFB-4D-EZ
4" Drop Oil Bath	70865HFB-4D-OIL	70UTOHFB-4D-OIL
Duo Servo Hydraulic		
Straight	70865HY-ST	70UTGHY-ST
Straight E-Z Lube	70865HY-ST-EZ	70UTGHY-ST-EZ
Straight Nev-R-Lube	70865HY-ST-NL	N/A
Straight Oil Bath	70865HY-ST-OIL	70UTOHY-ST-OIL
4" Drop	70865HY-4D	70UTGHY-4D
4" Drop E-Z Lube	70865HY-4D-EZ	70UTGHY-4D-EZ
4" Drop Oil Bath	70865HY-4D-OIL	70UTOHY-4D-OIL


Spring and U-bolt Kits available for 7,000 lb. Axles (Sold Separately)

Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-PR5	023000	2,900 lb.	25 1/4"	Double Eye	5
2-PR6	023100	3,300 lb.	24 7/8"	Double Eye	6
2-E5226	023200	3,000 lb.	25 1/4"	Slipper	5
2-1203T3	023300	3,500 lb.	24"	Slipper	5
2-1403T3	023400	4,000 lb.	24"	Slipper	7
2-E5115	023600	4,000 lb.	27 1/2"	Slipper	6

7,200 lb



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table below)

- Double Eye versions
 - Slipper Eye versions
- (Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 8 on 6 1/2" (9/16" studs standard or optional 5/8")

Brake Options: • 12 1/4" x 2 1/2" Electric Only

Spindles: Uses 25580 Inner, 02475 Outer

Bearings • Straight • 4" Drop

Tubing: • 3" OD, .250 wall

Optional 3.5" OD, .50 wall for Air-Ride

Lubrication: • Grease • E-Z Lube • Oil Bath

Wheel Assemblies: See Section E

Replacement Parts:

Hub/Drums: See Page B-25

Brakes: See Page C-14 (Electric)

Axle Beams: See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	14.00"	15.00"	18.00"
Drop	15.75"	17.75"	18.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

7,200 lb. Axle Assemblies

Axle Type	8 on 6 1/2"
Electric Straight	72865E-ST
Electric Straight E-Z Lube	72865E-ST-EZ
Electric Straight Oil Bath	72865E-ST-OIL
Electric 4" Drop	72865E-4D
Electric 4" Drop E-Z Lube	72865E-4D-EZ
Electric 4" Drop Oil Bath	72865E-4D-OIL

Spring and U-bolt Kits available for 7,200 lb. Axles

(Sold separately)

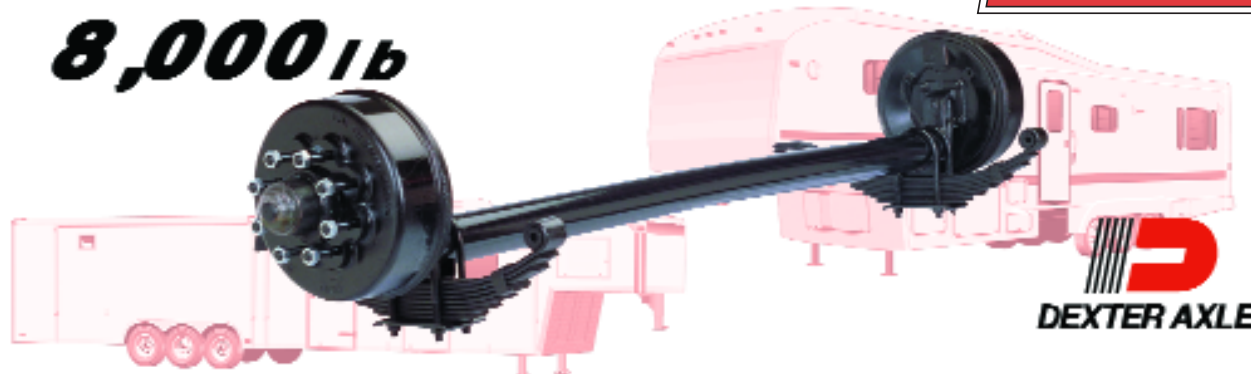
Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-PR5	023000	2,900 lb.	25 1/4"	Double Eye	5
2-PR6	023100	3,300 lb.	24 7/8"	Double Eye	6
2-E5226	023200	3,000 lb.	25 1/4"	Slipper	5
2-1203T3	023300	3,500 lb.	24"	Slipper	5
2-1403T3	023400	4,000 lb.	24"	Slipper	7
2-E5115	023600	4,000 lb.	27 1/2"	Slipper	6

7,200 lb. Axle Options

Part No.	Ref. No.	Description
72K-PWC	022850	EXTRA CHARGE FOR 7.2K ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-7.2K	022875	EXTRA CHARGE (PER AXLE) FOR 7.2K AXLES OVER 96" HUBFACE
ADD-7.2KHD-WALL	022900	ADD ON FOR 7.2K AXLE, 3.5" OD .5" WALL TUBING FOR AIR-RIDE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.



SPECIFICATIONS

Suspension:

Leaf Spring Suspension: (Choose from table below)

- Slipper Eye version (Only)
(Spring Kits sold separately.)

Hanger Kit Options: See Section D

Bolt Pattern Options:

- 8 on 6 1/2" (9/16" studs standard or optional 5/8")

Brake Options:

 (Forward Self-Adjusting)

- 12 1/4" x 3 3/8" Electric
- 12 1/4" x 3 3/8" Hydraulic – Single or Duo-Servo, available with parking feature.
- Hydraulic Disc
- ABS equipped option for hydraulic brakes

Spindles: Uses 25580 Inner, 02475 Outer Bearing •Straight • 4" Drop

Tubing: • 3.5" OD .250 wall
Optional 3.5" OD, .50 wall for Air-Ride

Lubrication: • Grease • E-Z Lube • Oil Bath • Nev-R-Lube

Wheel Assemblies: See Section E

Replacement Parts:

Idle Hub:	See Page B-17
Hub/Drums:	See Page B-27, B-34(Nev-R-Lube)
Hub/Rotor:	See Page B-38
Brakes:	See Page C-15 (Electric), Page C-29 (Hydraulic Drum) Page B-38 (Hydraulic Disc)
Axle Beams:	See Page B-2



Difference Between Hub Face and Spring Center

Axle Type	Minimum	Recommended	Maximum
Straight	16.00"	19.00"	19.00"
Drop	18.00"	19.00"	19.00"

NOTE: Minimums are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

8,000 lb. Axle Assemblies

Axle Type	8 on 6 1/2"
Idle	
Straight Oil Bath	80865I-ST
Straight E-Z Lube	80865I-ST-EZ
4" Drop Oil Bath	80865I-4D
4" Drop E-Z Lube	80865I-4D-EZ
Electric	
Straight Oil Bath	80865E-ST
Straight E-Z Lube	80865E-ST-EZ
Straight Nev-R-Lube	80865E-ST-NL
4" Drop Oil Bath	80865E-4D
4" Drop E-Z Lube	80865E-4D-EZ
Duo Servo Hydraulic	
Straight Oil Bath	80865HY-ST
Straight E-Z Lube	80865HY-ST-EZ
Straight Nev-R-Lube	80865HY-ST-NL
4" Drop Oil Bath	80865HY-4D
4" Drop E-Z Lube	80865HY-4D-EZ
Hydraulic Disc	
Straight Oil Bath	80865DS-ST
Straight E-Z Lube	80865DS-ST-EZ
Straight Nev-R-Lube	80865DS-ST-NL
4" Drop Oil Bath	80865DS-4D
4" Drop E-Z Lube	80865DS-4D-EZ

Spring and U-bolt Kits available for 8,000 lb. Axles (Sold separately)

Part No.	Ref. No.	Per Spring Capacity	Length	Type	No. of Leaves
2-E5226-8K	025200	3,000 lb.	25 1/4"	Slipper	5
2-1203T3-8K	025250	3,500 lb.	24 7/8"	Slipper	5
2-1403T3-8K	025600	4,000 lb.	24 7/8"	Slipper	7
2-E5115-8K	025400	4,000 lb.	27 1/2"	Slipper	6

8,000 lb. Axle Options

Part No.	Ref. No.	Description
12.25-PWC	024975	EXTRA CHARGE FOR 12 1/4" ELECTRIC AXLES W/PWC OPTION INSTALLED
XTRA-HF-8K	024960	EXTRA CHARGE (PER AXLE) FOR 8K AXLES OVER 96" HUBFACE
8K-ADD-HYABS	024980	EXTRA CHARGE (PER AXLE) FOR HYD BRAKE AXLES W/ABS SENSORS & TONE RINGS INSTALLED
ADD-8KHD-WALL	024985	ADD ON FOR 8K AXLE, 3.5" OD .5" WALL TUBING FOR AIR-RIDE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.
 For specific ordering information, please call your nearest Branch.

9,000 lb


SPECIFICATIONS

Suspension:

Leaf Spring Suspension:

- Mounted 2" Wide Slipper Eye, Rubber Bushing
- Spring kits sold separately

Adjustable Spring Seat: For tracking alignment. (Optional)

Hanger Kit Options: See table below. (Sold Separately)

Bolt Pattern Options:

• 8 on 6 1/2"

Brake Options:

- 12 1/4" x 3 3/8" Electric
- 12 1/4" x 3 3/8" Hydraulic – Single or Duo-Servo, available with parking feature.
- ABS Equipped option for Hydraulic Brakes

Spindles:

Uses 387A Inner, 25580 Outer Bearing

- Straight

Tubing:

- 4" OD .250 wall

Lubrication:

- Oil Bath

Wheel Assemblies:

See Section E



Standard Axle Configurations

	Dual Wheel	Dual Wheel	Dual Wheel	Single Wheel
Track Width	76.00"	72.00"	68.00"	85.00"
Spring Center - Max.	54.00"	50.00"	46.00"	63.00"
Spring Center - Min.	45.00"	41.00"	37.00"	54.00"

NOTE: Dimensions are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

9,000 lb Axle Assemblies

8 on 6 1/2"

Electric w/o Springs	9K865E-NOSPR
Duo Servo Hydraulic w/o Springs	9K865HY-NOSPR

ABS Equipped 8 on 6 1/2"

Electric w/o Springs	N/A
Duo Servo Hydraulic w/o Springs	9K865HABS-NOSPR

Replacement Parts:

Hub/Drums: See Page B-28 and B-29

Brakes: See Page C-15, C-16 (Electric),
Page C-29, C-30 (Hydraulic)

Axle Beams: See Page B-2

9,000 lb. Axle Options

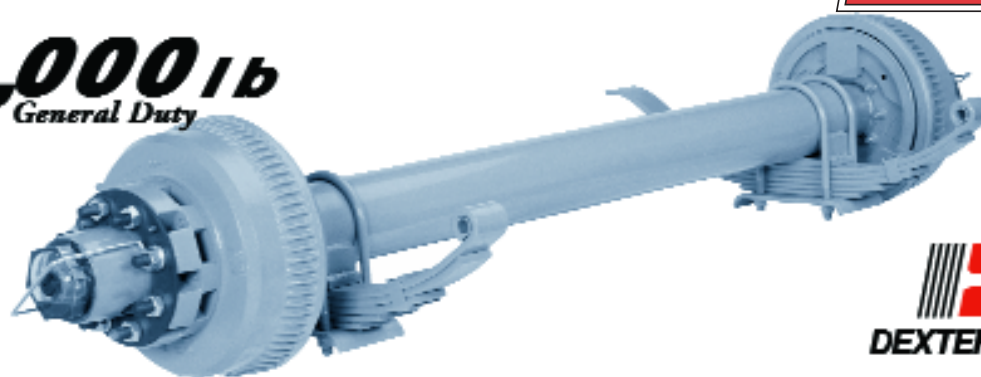
Part No.	Ref. No.	Description
9KHYD-PARK	030400	HYDRAULIC BRAKES W/ PARK, ADD TO 9K HYDRAULIC BRAKE AXLE
XTRA-HF-9K	030410	EXTRA CHARGE (PER AXLE) FOR 9K AXLES OVER 80" HUB FACE
9KADJ-SEAT	030415	ADJ SPG SEATS ALLOWS CORRECTION OF AXLE SPACING, PREVENTS SIDE TRACKING
72-10-2MT9K	030418	2 EA, 72-10-2 SPRINGS MTD ON ABOVE 9K AXLES

Hanger and Attaching Parts Kits for 9,000 lb. (Sold Separately)

Part No.	Ref. No.	Description
HAP-105-00	030420	9K SINGLE AXLE HANGER AND ATTACHING PARTS KIT
HAP-205-01	030440	9K MULTI-AXLE CONVERSION KIT FOR 38" AXLE SPACING
HAP205-02	030460	9K MULTI-AXLE CONVERSION KIT FOR 42 1/4" AXLE SPACING
HAP205-03	030480	9K MULTI-AXLE CONVERSION KIT FOR 48 1/2" AXLE SPACING

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

10,000 lb
 General Duty


SPECIFICATIONS

Suspension:

Leaf Spring Suspension:

- Mounted 2 1/2" Wide Slipper Eye, Bronze Bushing
- Spring kit sold separately

Adjustable Spring Seat: For tracking alignment. (Optional)

Hanger Kit Options: See table below. (Sold Separately)

Bolt Pattern Options: • 8 on 6 1/2"

Brake Options: (Forward Self-Adjusting)

- 12 1/4" x 3 3/8" Electric
- 12 1/4" x 3 3/8" Hydraulic – Single or Duo-Servo, available with parking feature.
- ABS Equipped option for Hydraulic Brakes.

Spindles: Uses 387A Inner, 25580 Outer Bearing

- Straight

Tubing:

- 5" OD .250 wall

Lubrication:

- Oil Bath

Wheel Assemblies: See Section E

10,000 lb GD Axle Assemblies

8 on 6 1/2"

Electric w/o Springs	10GD865E-NOSPR
Duo Servo Hydraulic w/o Springs	10GD865HY-NOSPR

ABS Equipped 8 on 6 1/2"

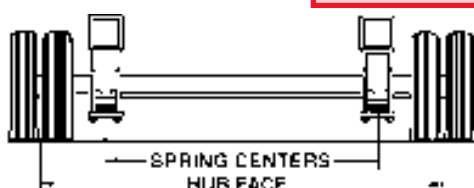
Electric w/o Springs	N/A
Duo Servo Hydraulic w/o Springs	10GD865HABSN SPR

Replacement Parts:

Hub/Drums: See Page B-29

Brakes: See Page C-16 (Electric),
Page C-30 (Hydraulic)

Axle Beams: See Page B-2



Standard Axle Configurations

	Dual Wheel	Dual Wheel	Single Wheel
Track Width	74.00"	66.00"	84.00"
Spring Center - Max.	48.00"	40.00"	58.00"
Spring Center - Min.	43.00"	35.00"	53.00"

NOTE: Dimensions are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

10,000 lb. General Duty Axle Options

Part No.	Ref. No.	Description
10GDHYD-PARK	032410	HYDRAULIC BRAKES W/ PARK, ADD TO 10K GD HYDRAULIC BRAKE AXLE
XTRA-HF-10KGD	032425	EXTRA CHARGE (PER AXLE) FOR 10K GD AXLES OVER 80" HUB FACE
10GDADJ-SEAT	032430	ADJ SPG SEATS ALLOWS CORRECTION OF AXLE SPACING, PREVENTS SIDE TRACKING
72-77MT10GD	032601	2 EA, 72-77 SPRINGS MTD ON ABOVE 10K GD AXLES (7/8" SPRING EYE)

Hanger and Attaching Parts Kits for 10,000 lb. General Duty (Sold Separately)

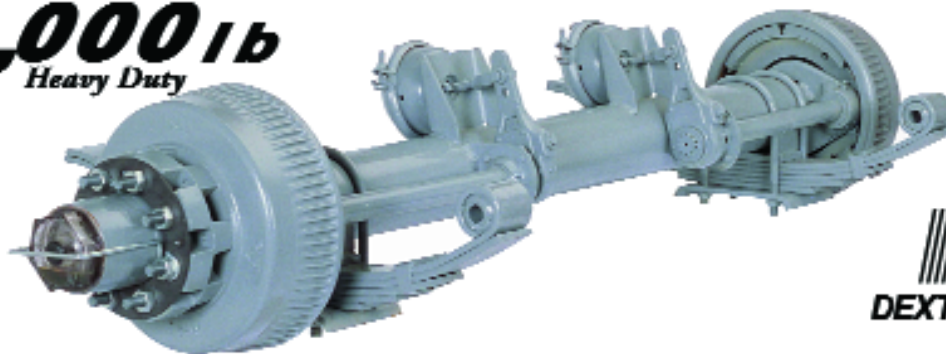
Part No.	Ref. No.	Description
HAP-157-00	032701	10K GD SINGLE AXLE HANGER AND ATTACHING PARTS KIT, FOR 7/8" SPRING EYE
HAP-257-01	033101	10K GD MULTI-AXLE CONVERSION KIT FOR 38" AXLE SPACING, FOR 7/8" SPRING EYE
HAP257-02	033301	10K GD MULTI-AXLE CONVERSION KIT FOR 42 1/4" AXLE SPACING, FOR 7/8" SPRING EYE
HAP257-03	033501	10K GD MULTI-AXLE CONVERSION KIT FOR 48 1/2" AXLE SPACING, FOR 7/8" SPRING EYE

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

10,000 lb

Heavy Duty



SPECIFICATIONS

Suspension:

Leaf Spring Suspension:

- Mounted 3" Wide Slipper Eye, Rubber Bushing
- Spring kits sold separately

Adjustable Spring Seat: For tracking alignment (Optional)

Hanger Kit Options: (Sold Separately)

Brake Options:

- 12 1/4" x 4" Electric – Forward Self-Adjusting
- 12 1/4" x 4" Hydraulic – Forward Self-Adjusting, Single or Duo-Servo, available with parking feature
- Hydraulic Disc
- Air Brakes-
Manual Slack Adjusters – Standard
Automatic Slack Adjusters – Optional
- ABS Equipped option for Hyd, Disc, & Air Brakes

Bolt Pattern Options:

- 8 on 6 1/2"

Spindles:

- Straight

Tubing:

- 5" OD .250 wall
- Optional .440" wall for use w/Air-Ride Suspension

Lubrication:

- Oil Bath

Wheel Assemblies:

See Section E



NOTE: Dimensions are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

10,000 lb. Heavy Duty Axle Assemblies

8 on 6 1/2"

Electric w/o Springs	10K865E-NOSPR
Hydraulic w/o Springs	10K865HY-NOSPR
Hydraulic Disc w/o Springs	10K865DS-NOSPR
Air Brake w/o Springs	10K865A-NOSPR
Air Brake w/Park, no Springs	10K865ASB-NOSPR

ABS Equipped 8 on 6 1/2"

Electric w/o Springs	N/A
Hydraulic w/o Springs	10K865HABSNSPR
Hydraulic Disc w/o Springs	10K865DABSNSPR
Air Brake w/o Springs	10K8A-ABSNSPR
Air Brake w/Park, no Springs	10K8APABSNSPR

Replacement Parts:

Hub/Rotor: See Page B-30

Hub/Drums: See Page B-29

Brakes: See Page C-18 (Electric), Page C-31 (Hydraulic)

See Page C-33 (Disc), Page C-34 (Air)

Axle Beams: See Page B-2

Standard Axle Configurations:

	Dual Wheel	Dual Wheel	Single Wheel
Track Width	74.00"	66.00"	84.00"
Spring Center - Max.	48.00"	40.00"	58.00"
Spring Center - Min.	43.00"	35.00"	53.00"

10K Heavy Duty Axle Options

Part No.	Ref. No.	Type
ADD-10KHD-WALL	035250	ADD PER AXLE FOR .44 HVY WALL TUBING (REQUIRED FOR AIR RIDE SUSPENSION)
10KHYD-PARK	03540	HYDRAULIC BRAKES W/PARK ADD TO 10K HEAVY-DUTY AXLES
XTRA-HF-10K	035425	EXTRA CHARGE PER AXLE FOR 10K HEAVY-DUTY AXLES WITH OVER 80" HUB FACE
10KADJ-SEAT	035450	ADJ SPG SEATS ALLOWS CORRECTION OF AXLE SPACING, PREVENTS SIDE TRACKING
ADD-AUTOSL	043125	ADD PER AXLE FOR AUTOMATIC SLACK ADJUSTERS (AIR BRAKE)
72-43-1MT10K	040700	2 EA, 72-43-1 SPRINGS MTD ON ABOVE 10K AXLES

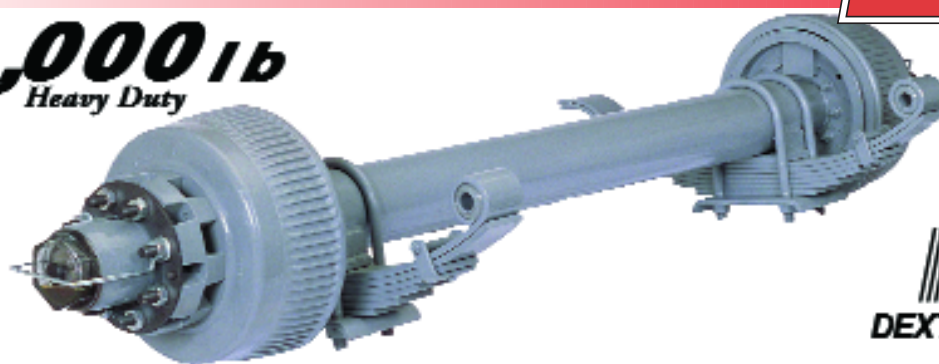
See Pages D-11 for Available Hanger and Attaching Parts Kits for 10,000 lb. Heavy Duty axles.

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

12,000 lb

Heavy Duty



AXLE
ASSEMBLIES

SPECIFICATIONS

Suspension:

Leaf Spring Suspension:

- Mounted 3" Wide Slipper Eye, Rubber Bushing
- Spring kits sold separately

Adjustable Spring Seat: For tracking alignment.
(Optional)

Hanger Kit options – (sold separately)

Brake Options:

- 12 1/4" x 5" Electric – Forward Self-Adjusting
- 12 1/4" x 5" Hydraulic – Forward Self-Adjusting, Single or Duo-Servo, available with parking feature
- Hydraulic Disc
- Air Brakes-
Manual Slack Adjusters – Standard
Automatic Slack Adjusters – Optional
- ABS Equipped option for Hyd, Disc, & Air Brake

Bolt Pattern Options:

- 8 on 6 1/2"
- Standard: Hi Profile Hub for 16", 16.5" dia. wheels;
- Optional: Low Profile for 14.5" wheels.

Spindles:

- Uses 3984 Inner, 28682 Outer Bearing
- Straight

Tubing:

- 5" OD .440 wall

Lubrication:

- Oil Bath

Wheel Assemblies:



NOTE: Dimensions are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

12,000 lb Heavy Duty Axle Assemblies

8 on 6 1/2"

Electric w/o springs	12K865E-NOSPR	12K865LPE-NOSPR
Hydraulic Disc w/o Springs	12K865DS-NOSPR	N/A
Duo-Servo Hydraulic w/o Springs	12K865HY-NOSPR	12K865LPHYNSPR
Air Brake w/o Springs	12K865A-NOSPR	12K865LPANSPR
Air Brake w/Park & w/o Springs	12K865ASB-NOSPR	12K865LPASB-NOSPR

ABS Equipped 8 on 6 1/2"

Electric w/o springs	N/A	N/A
Hydraulic Disc w/o Springs	12K865DABSNSPR	N/A
Duo-Servo Hydraulic w/o Springs	12K865HABSNSPR	12K865LPABSNSPR
Air Brake w/o Springs	12K865A-ABSNSPR	12K865LPABSNSPR
Air Brake w/Park & w/o Springs	12K865APABSNSPR	12K865LPAPABSNSPR

Replacement Parts:

Hub/Rotor: See Page B-31

Hub/Drums: See Page B-31

Brakes: See Page C-19 (Electric), Page C-32 (Hydraulic), Page C-33 (Disc), Page C-34 (Air)

Standard Dual Wheel Axle Configurations

	Low Profile		High Profile	
Track Width	74.50"	70.50"	74.00"	66.00"
Spring Center - Max.	41.00"	37.00"	47.50"	39.50"
Spring Center - Min.	33.50"	29.50"	33.00"	25.00"

12K Heavy Duty Axle Options

Part No.	Ref. No.	Type
12KHYD-PARK	037200	HYDRAULIC BRAKES W/ PARK ADD TO 12K HEAVY-DUTY AXLES
XTRA-HF-12K	037225	EXTRA CHARGE (PER AXLE) FOR 12K HEAVY-DUTY AXLES OVER 80" HUB FACE
12KADJ-SEAT	037250	ADJ SEATS ALLOWS CORRECTION OF AXLE SPACING, PREVENTS SIDE TRACKING
ADD-AUTOSL	043125	ADD PER AXLE FOR AUTOMATIC SLACK ADJUSTERS (AIR BRAKES)
72-44-1MT12K	040740	2 EA, 72-44-1 SPRINGS MTD ON ABOVE 12K AXLES

See Pages D-11 for Available Hanger and Attaching Parts Kits for 12,000 lb. Heavy Duty axles.

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

15,000 lb
 Heavy Duty

DEXTER AXLE

SPECIFICATIONS

Suspension:

Leaf Spring Suspension:

- Mounted 3" wide Slipper Eye, Rubber Bushing
- Spring kit sold separately

Adjustable Spring Seat: For tracking alignment. (Optional)

Hanger Kit options – (sold separately)

Brake Options:

- 12 1/4" x 5" Electric – Forward Self-Adjusting
- 12 1/4" x 5" Hydraulic – Forward Self-Adjusting, Single or Duo-Servo, available with parking feature
- Air Brakes-
Manual Slack Adjusters – Standard
Automatic Slack Adjusters – Optional
- ABS equipped option for Hyd and Air Brakes

Bolt Pattern Options:

Spindles: Uses 3984 Inner, 28682 Outer Bearing

- Straight

Tubing:

- 5" OD .440 wall

Lubrication:

- Oil Bath

Wheel Assemblies: See Section E

15,000 lb. Heavy Duty Axle Assemblies

8 on 275mm

Electric w/o Springs 15K8E-NOSPR

Duo-Servo Hydraulic w/o Springs 15K8HY-NOSPR

Air Brake w/o Springs 15K8A-NOSPR

Air Brake w/Spring Brakes w/o Springs 15K8ASB-NOSPR

ABS Equipped 8 on 275mm

Electric w/o Springs N/A

Duo-Servo Hydraulic w/o Springs 15K8HABS-NOSPR

Air Brake w/o Springs 15K8AABS-NOSPR

Air Brake w/Spring Brakes w/o Springs 15K8APABSNSPR

Replacement Parts:

Hub/Drums: See Page B-32

Brakes: See Page C-19 (Electric),
Page C-32 (Hydraulic), Page C-40 (Air)


NOTE: Dimensions are based on manufacturing tolerances only. Some tire and wheel combinations may create interference.

Standard Axle Configurations

	Dual Wheel	Dual Wheel
Track Width	75.00"	67.00"
Overall Width	96.00"	88.00"
Spring Center - Max.	46.00"	38.00"
Spring Center - Min.	42.00"	34.00"

15K Heavy Duty Axle Options

Part No.	Ref No.	Type
15KHYD-PARK	040600	HYD BRAKES W/ PARK, ADD TO 15K HYD BRAKE AXLE PRICE
XTRA-HF-15K	040610	EXTRA CHARGE (PER AXLE) FOR 15K AXLES OVER 80" HUB FACE
15KADJ-SEAT	040615	ADJ SPG SEATS ALLOWS CORRECTION OF AXLE SPACING, PREVENTS SIDE TRACKING
ADD-AUTOSL	043125	ADD PER AXLE FOR AUTOMATIC SLACK ADJUSTERS (AIR BRAKE)
72-45-1MT15K	040770	2 EA, 72-45-1 SPRINGS MTD ON ABOVE 15K AXLES

See Pages D-11 for Available Hanger and Attaching Parts Kits for 15,000 lb. Heavy Duty axles.

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3.

For specific ordering information, please call your nearest Branch.

22,500 lb - 27,500 lb

Heavy Duty



SPECIFICATIONS

Suspensions: See pages D-19 and D-20 for listing.

Bolt Pattern Options: • 3 Spoke Cast • 5 Spoke Cast

- 10 on 8 3/4" • 10 on 11 1/4"

Brake Options: • 12 1/4" x 7 1/2" "S" Cam Air Brakes

- 16 1/2" x 7" "S" Cam Air Brakes
- Spring Brakes* &/or ABS Equipped* Axles available upon request

Cam Shaft: Various lengths are available upon request.*

Slack Adjusters: Slack adjusters are available in Manual, Automatic* and/or Curved* models.

Spindles: HM218248 Inner, HM212049 Outer Bearing

Air Chambers: Type 30 Service Chamber Standard

Spring Brakes: Available upon request

Seals: Unitized National or Stemco* Seals

* Indicates those parts which are optional features and an additional charge from the standard models.

Track: Standard Tracks are 71 1/2" and 77 1/2"*

(*special tracks available upon request)

Note: Axle tracks under 71" may be subject to clearance problems when used w/ air-ride suspensions

Tubing/Beam Capacity: 5" OD .50" wall (22,500lb), .62" (25,000 lb), .75" (27,500 lb),

Capacities reduced in off-road and/or Air-Ride suspension applications. A minimum of .62" wall thickness required for Air-Ride Suspensions

Spring Centers:

Maximum: Track minus 32 1/2" or as tire clearance allows.

Minimum: Track minus 34 1/2"

Replacement Parts:

Brakes: See Page C-40 (Air)

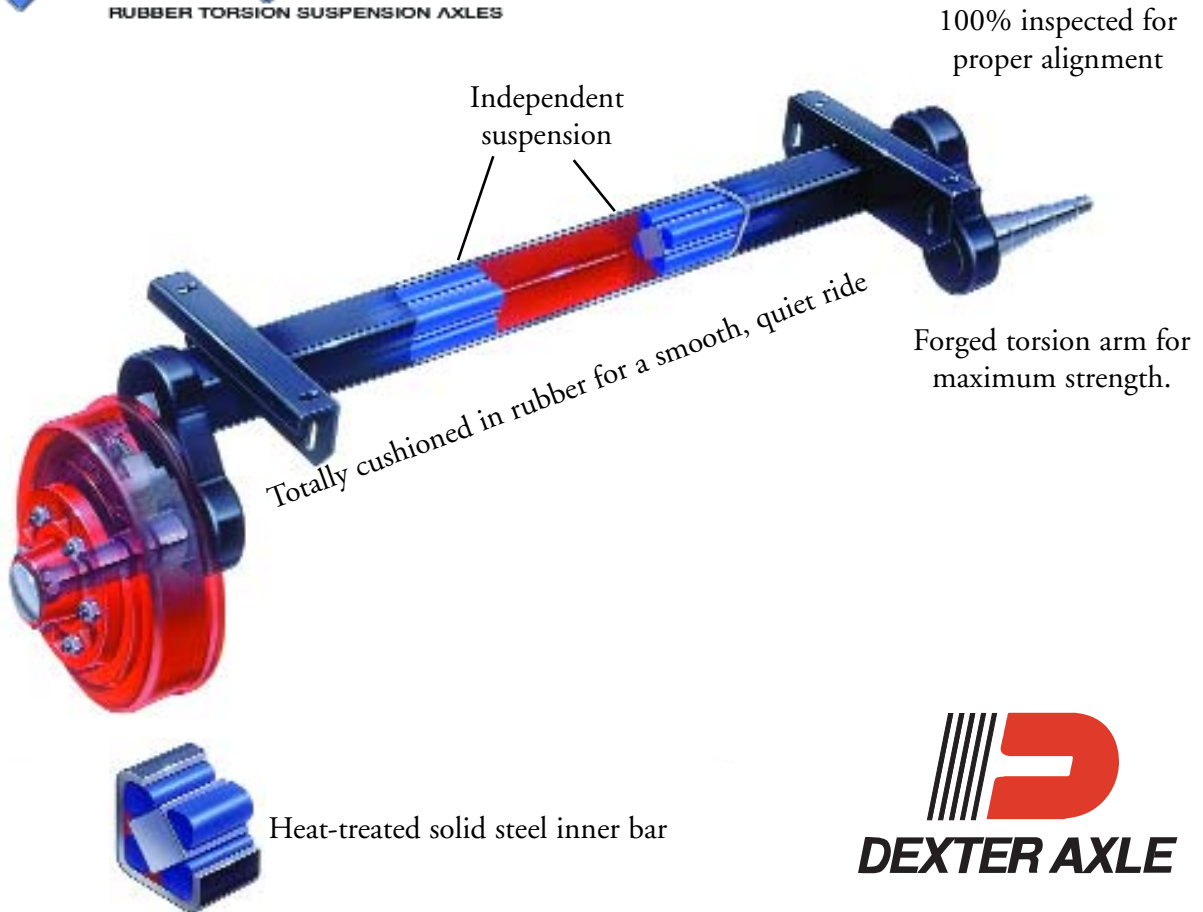
Heavy Duty Axle Assemblies

Axle Type	.50" Nominal Wall Thickness	.62" Nominal Wall Thickness	.75" Nominal Wall Thickness
12 1/4" x 7 1/2" Brake			
Less Hub and Drum	D200-5-LHD12	D200-6-LHD12	D200-7-LHD12
3 Spoke Cast Hub & Drum for 15" & 17.5" Rims	D200-5-3SPK12	D200-6-3SPK12	D200-7-3SPK12
3 Spoke Cast Hub & Drum for 15" & 17.5" Rims, w/ ABS Sensors & Tone Rings	D200-5-3SP12ABS	D200-6-3SP12ABS	D200-7-3SP12ABS
10 on 8 3/4" Bolt Circle Hub and Drum	D200-5-10-12	D200-6-10-12	D200-7-10-12
10 on 8 3/4" Bolt Circle Hub and Drum, w/ ABS Sensor & Tone Rings	D200-5-10-12ABS	D200-6-10-12ABS	D200-7-10-12ABS
16 1/2" x 7" Brake			
Less Hub and Drum	D200-5-LHD16	D200-6-LHD16	D200-7-LHD16
5 Spoke Cast Hub and Drum, for 20" & 22.5" Rims	D200-5-5SPK16	D200-6-5SPK16	D200-7-5SPK16
5 Spoke Cast Hub and Drum, for 20" & 22.5" Rim, w/ ABS Sensor and Tone Rings	D200-5-5SP16ABS	D200-6-5SP16ABS	D200-7-5SP16ABS
10 on 11 1/4" Bolt Circle Hub & Drum	D200-5-10-16	D200-6-10-16	D200-7-10-16
10 on 11 1/4" Bolt Circle Hub and Outboard Drum	D200-5-10-16OB	D200-6-10-16OB	D200-7-10-16OB
10 on 11 1/4" Bolt Circle Hub and Outboard Drum, w/ ABS Sensor and Tone Rings	D200-5-10-16ABS	D200-6-10-16ABS	D200-7-10-16ABS

Axle Options

Part No.	Ref. No.	Type
XTRA-HF-20K	042070	EXTRA CHARGE (PER AXLE) FOR AXLES W/TRACK 71.6" THRU 77.5"
XTRAWD-HF-20K	042072	EXTRA CHARGE (PER AXLE) FOR AXLES W/TRACK 77.6" THRU 92.5"
SUPRWD-HF-20K	042100	EXTRA CHARGE (PER AXLE) FOR AXLES W/TRACK 92.6" & OVER
ADD-STEMCO	043075	ADD PER AXLE FOR STEMCO GRIT GUARD SEALS
ADD-3030SB	043100	ADD PER AXLE FOR TYPE 30-30 SPRING BRAKE CHAMBERS
ADD-AUTOSL	043125	ADD PER AXLE FOR AUTOMATIC SLACK ADJUSTERS (AIR BRAKE)
D200-16-ADD-HPS	042066	HUB PILOTED OPTION, (STEEL WHEEL) ADD-ON TO 10-11.25 OUTBOARD DRUM

For information on selecting and ordering Tubular Axles, see pages A-2 thru A-3. For specific ordering information, please call your nearest Branch.



- Independent wheel suspension
- Maximum stability
- Low profile with maximum road clearance
- Installs easily
- Components with high resistance to wear
- Five year warranty on suspension systems
- 600 lb. - 10,000 lb. capacities, tailored for your requirements
- Axle can be used as a cross member
- Bearing lubrication options: Standard grease, E-Z Lube™, Nev-R-Lube™ or Oil (7,000# and above)

How to Select Torflex Axles:

1. How to Determine the Gross Vehicle Weight (GVW)

When building a trailer, the total Gross Vehicle Weight (**GVW**) must be determined in order to select the right axle or axles for the application. **GVW** includes the weight of the empty trailer and the weight of the intended cargo. (Example: 2,000 lb. empty trailer weight + 8,000 lbs. cargo = GVW of 10,000 lbs.)

2. How Many Axles?

After determining the GVW, the number and capacity of the axles must be selected. For example, if you want 10,000 lb. GVW and want tandem axles, the minimum required capacity is 6,000 lb. per axle.

3. Brakes?

First, determine if you want brakes on each axle. Most states require by law that at least one axle has brakes. Many states require that all axles have brakes. To determine how many brakes are necessary in a state, contact the local Department of Motor Vehicles. Second, determine what type of brake you prefer. Choose from Electric, Hydraulic Single-Serve or Hydraulic Duo-Serve.

4. What is the Length of the Axle?

Of the several ways and industry terms to describe this procedure, the most popular term is "Hub Face" which is the measurement from the base of the wheel stud to the base of the wheel stud on the opposite end of the axle.

5. Which Bolt Pattern?

The Bolt Pattern of the axles can vary depending on the capacity of the axle. The Bolt Pattern also determines what type tire and wheel can be used. If there is a specific tire and wheel you would like to use, please relay that information so we can help you to determine the proper bolt pattern and axle.

6. What is the Outside Frame Dimension?

Since the mounting brackets of the Torflex axles mount directly to the frame of your trailer, it is necessary to know the outside frame measurement in order to install them on the axle correctly.

7. How to Determine the Trailing Arm Starting Angle

The starting angle is the position of the spindle in reference to the trailer frame. In order to make it simpler to select the starting angle for your Torflex axle, consult the tables which appear at the bottom of each Torflex axle page.



How to Order Torflex Axles:

Our part number system for Torflex Axles is very similar to that of the tubular axles. Please place your order according to the description based on the following information/example:

EX: **12TF70-865E-EZ** **#12 Torflex, 7,000 lb., 8 Bolt, 6.5" Bolt Pattern, Electric Brake, E-Z Lube**

12TF: Model of Torflex Axle (#8, #9, #10, #11, #12, or #13)

70: Capacity of Torflex Axle (70 = 7,000 lb. capacity)

865: 8 Bolt, 6.5" Bolt Pattern

E: Type of Brake, if any (I = Idler, E = Electric, H = Single Serve Hydraulic, HY = Duo-Serve Hydraulic, DS = Disc)

EZ: Type of Lube (EZ = E-Z Lube, NL = Nev-R-Lube, OIL = Oil)

It is also necessary that you give us the outside dimension of your frame and the starting angle of the trailing arm.

How to Install Torflex Axles

Step 1:

First decide where to place the centerline of the axle(s) on the trailer. This position will determine the final axle loading as well as the hitch load.

Step 2:

Determine the method of attachment you wish to use.

- For structural tube frame rails, refer to Figure 1 for recommended attachment.
- For "C" channel or "I" beam type frame, refer to Figure 2.



DEXTER AXLE

Figure 1

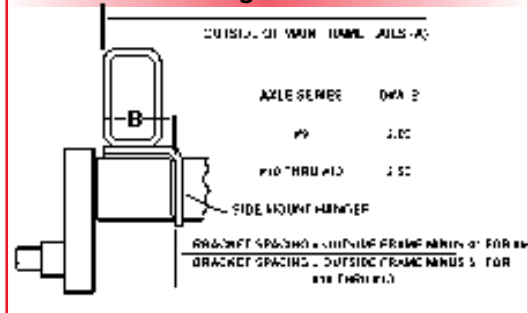
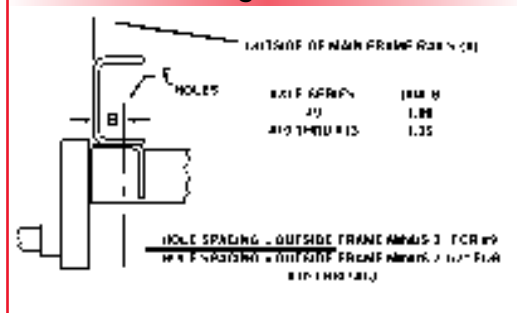


Figure 2



Step 3:

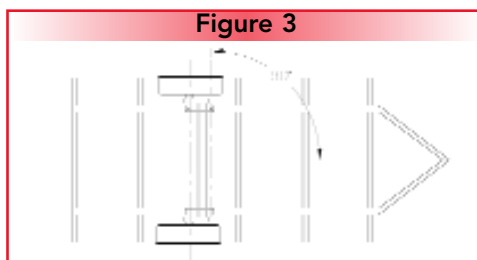
Once the method of attachment is decided, the axle(s) must be carefully aligned on the trailer frame. The axle centerline must be perpendicular to the longitudinal centerline of the trailer. (See figure 3)



Caution:

Misalignment of the axle(s) can cause poor tracking and accelerated tire wear.

Figure 3

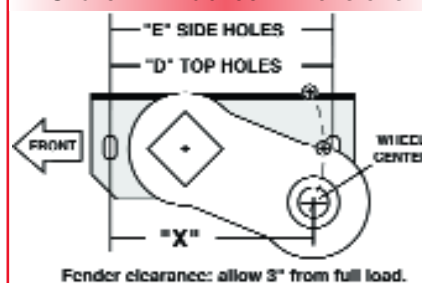


Step 4: Attachment to Structural Tube Type Frames

Dexter Axle recommends the use of side mounting hangers when attaching axles to tubular type frames. These hangers are included in the side mount AP kits listed in Chart 2.

- Refer to Chart 1 to find the mounting bracket dimensions of your axle(s). This chart shows the dimensions from the wheel center to the bolt holes of the brackets.

Chart 1 - Bracket Dimensions



Torflex Axle Model	Mounting Hole to Wheel - Dimension "X" (inches)												Mounting Hole Spacing Inches	
	Start Angle of Trailing Arm													
	45° DN		22.5° DN		10° DN		0°		10° UP		22.5° UP			
	No Load	Full Load	No Load	Full Load	No Load	Full Load	No Load	Full Load	No Load	Full Load	No Load	Full Load	Dim "D" (Top)	Dim "E" (Side)
#8 (4" arm)	5.21	6.08	6.08	6.38	6.32	6.29	6.38	6.08	6.32	5.75	6.08	5.21	7.75	8.00
#9 (6" arm)	6.62	7.92	7.92	8.38	8.29	8.24	8.38	7.92	8.29	7.44	7.92	6.62	7.75	8.00
#10 (6" arm)	6.74	8.04	8.04	8.50	8.41	8.36	8.50	8.04	8.41	7.56	8.04	6.74	8.00	8.00
#11 (6" arm)	7.74	9.04	9.04	9.50	9.41	9.36	9.50	9.04	9.41	8.56	9.04	7.74	9.00	9.50
#12 (6" arm)	7.74	9.04	9.04	9.50	9.41	9.36	9.50	9.04	9.41	8.56	9.04	7.74	9.00	9.50
#13 (6" arm)	7.84	9.17	9.17	9.63	9.54	9.49	9.63	9.17	9.54	8.69	9.17	7.87	10.56	10.56

Step 4: Attachment to Structural Tube Type Frames (continued)

- B. If you wish to pre-weld the side mount hangers to the frame rails, see Figure 1 for the appropriate spacing.
- C. A convenient way to install the side mount hanger is to preassemble the hangers to the axle when using the hardware provided in the AP kit. Make sure the bolts are tightened to the torque specifications shown in Chart 2. Position the axle assembly on the frame rails in the desired location and weld the side mount hangers to the frame.



Chart 2 Attaching Parts Kits - Torque Specifications				
Axle Size	A/P-KIT Top Mount	A/P-KIT Side Mount	Bolt Size	Torque Lb-Ft
#8	A/P-161-00	A/P-165-00	1/2"	70-90
#9	A/P-161-00	A/P-165-00	1/2"	70-90
#10	A/P-148-00	A/P-166-00	5/8"	120-155
#11	A/P-148-00	A/P-167-00	5/8"	120-155
#12	A/P-148-00	A/P-168-00	5/8"	120-155
#13	A/P-148-00	A/P-169-00	5/8"	120-155

Step 5: Attachment to "C" Channel or "I" Beam Type Frames

- A. Refer to Chart 1 to find the mounting brackets dimensions of your axle(s). This chart shows the dimensions from the wheel center to the bolt holes of the brackets.
- B. Lay-out the bolt hole locations on the bottom flanges of the frame rails. Make sure that the hole pattern matches the mounting brackets of your axles and is properly oriented to allow proper alignment of the axle(s).
- C. An alternate method for determining hole location is to position the axle assembly on the frame rails, align it perpendicular to the trailer centerline, clamp in place and transfer the holes directly from the brackets.
- D. Drill the holes through the frame rails and attach the axle using the hardware provided in the AP kit. Tighten the bolts to the torque specified.

NOTE: *In the unlikely event a Torflex Axle must be replaced during the warranty period, Dexter Axle cannot assume responsibility for additional costs incurred for removal and re-installation of axles that have been welded directly to the frame.*

Axles will be built with the distance between the brackets equal to bracket spacing as determined by the above equation, (Figure 1), which uses the outside of frame. The tolerance on this spacing will be 1/8".

Locate the outboard face of the side mounting hanger to the same dimension as bracket spacing, but with a tolerance of 1/8". The "B" dimension must not be exceeded to insure that the arms will not hit the side of the frame rails.

Axles will be built with the distance between the bracket mounting holes equal to the hole spacing as determined by the equation, (Figure 2), which uses the outside of frame.

Set hole spacings on the trailer to the same dimension. The "B" dimension must not be exceeded to insure that the arms will not hit the side of the frame rails.

Side mount hangers should be welded to frame with three fillet welds 2 1/2" long on both sides of hanger and a fillet weld on each end in accordance with American Welding Society D1.1 Structural Welding Code.

Side mount hangers and fasteners for mounting axle are provided in AP (attaching parts) kits given in Chart 2. Torque fasteners to levels specified. Install fasteners so that bolt head is against side mount hangers with washer and not against mounting bracket which is welded to the axle.



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Bolt Pattern Options: • 4 on 4" • 5 on 4.5"

5 Bolt available with:

- 5 1/2" Hub Flange – For 8" - 12" Wheels
- 6 1/2" Hub Flange – For 12" - 15" Wheels

Brake Options: • Available as Idler only

Spindles: Standard BTR 1 1/16",
L44649 Inner/Outer Bearings.

Lubrication: • Grease • E-Z Lube

Wheel Assemblies: See Section E

Replacement Parts:

Hub Parts: See Page B-12 and B-13

Brakes: Available as Idler only

Axle Beams: See Page B-2

#8 Torflex Axle Assemblies

Axle Type	4 on 4"	5 on 4 1/2"
Idler	8TF9-440I	8TF9-545I
Idler w/ E-Z Lube	8TF9-440I-EZ	8TF9-545I-EZ

#8 Torflex Mounting Kit & Axle Options

Part No.	Ref No.	Type
XTRA-HF-8TF	044825	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 96" HUB FACE
AP165	046910	WELD ON MOUNTING KIT FOR #8 TORFLEX AXLES

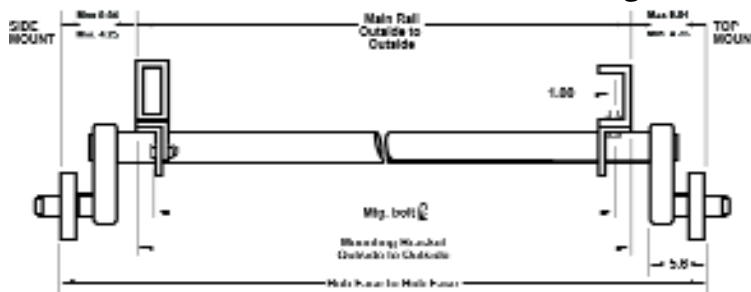
For information on ordering and installing Torflex axles, see pages A-25 thru A-27.
For specific ordering information, please call your nearest Branch.

#8 TORFLEX SPECIFICATIONS

DEXTER AXLE

**AXLE
ASSEMBLIES**

Mounting Details



Difference between hubface and outside mounting brackets

Minimum

9.50" (4.25" per side)

Maximum

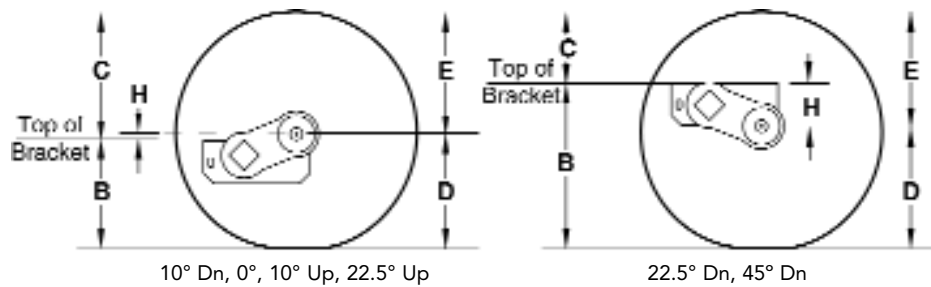
18.08" (9.04" per side)

Note: Minimums are based on manufacturing tolerances only.
Some tire and wheel combinations may create interference.

8

Full Load Dimensions

Dimensions are for low profile, top mount only. Side mount is .25" higher. Allow 3" bump clearance from full load.



H = Center Line of spindle to top of bracket, **B** = Top of bracket to ground, **C** = Top of bracket to top of tire,
D = Center Line of spindle to ground, **E** = Center Line of spindle to top of tire.

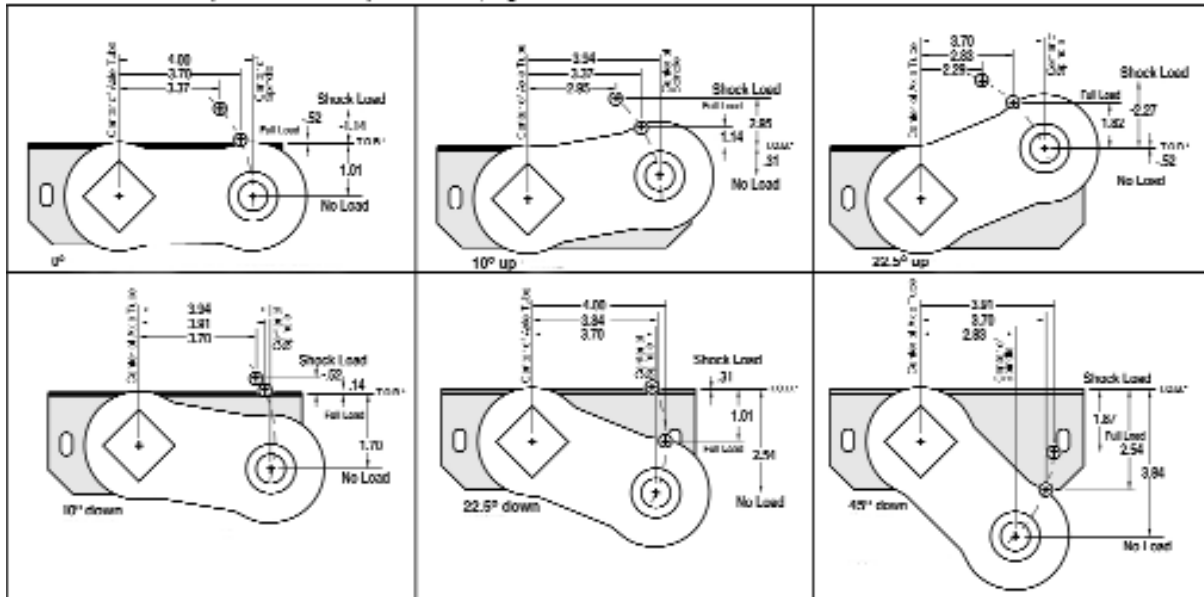
Start Angle

Tire	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	D	E
ST175/80R13	2.5	13.7	9.5	1.0	12.2	11.0	0.1	11.3	11.9	-0.5	10.7	12.5	-1.1	10.1	13.1	-1.8	9.4	13.8	11.2	12.0
4.80-8	2.5	10.4	6.3	1.0	8.9	7.8	0.1	8.0	8.7	-0.5	7.4	9.3	-1.1	6.8	9.9	-1.8	6.1	10.6	7.9	8.8
4.80-12	2.5	12.0	8.3	1.0	10.5	9.8	0.1	9.6	10.7	-0.5	9.0	11.3	-1.1	8.4	11.9	-1.8	7.7	12.6	9.5	10.8
20.5x8.0-10	2.5	12.2	8.3	1.0	10.7	9.8	0.1	9.8	10.7	-0.5	9.2	11.3	-1.1	8.6	11.9	-1.8	7.9	12.6	9.7	10.8

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.



* TOP OF BRACKET



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Spindles: Standard BTR 1 1/16", L44649 Inner/Outer Bearings.

Lubrication: • Grease • E-Z Lube

Wheel Assemblies: See Section E

Bolt Pattern Options: • 4 on 4" • 5 on 4.5"

5 Bolt available with:

- 5 1/2" Hub Flange – For 8" - 12" Wheels
- 6 1/2" Hub Flange – For 12" - 15" Wheels

Brake Options:

- 7" x 1 1/4" – Electric
- 7" x 1 3/4" – Hydraulic Uni-Servo

Replacement Parts:

Hubs: See Page B-12 and B-13

Hub/Drums: See Page B-18 and B-20

Brakes: See Page C-9 (Electric), Page C-25 (Hydraulic)

Axle Beams: See Page B-3

#9 Torflex Axle Assemblies

Axle Type	4 on 4"	5 on 4 1/2"
Idler	9TF20-440I	9TF20-545I
Idler w/ E-Z Lube	9TF20-440I-EZ	9TF20-545I-EZ
Electric	9TF20-440E	9TF20-545E
Electric w/ E-Z Lube	9TF20-440E-EZ	9TF20-545E-EZ
Single Servo Hydraulic	9TF20-440H	9TF20-545H
Hydraulic w/ E-Z Lube	9TF20-440H-EZ	9TF20-545H-EZ

#9 Torflex Mounting Kit & Axle Options

Part No.	Ref. No.	Type
XTRA-HF-9TF	046825	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 96" HUB FACE
AP165	046910	WELD ON MOUNTING KIT FOR #9 TORFLEX AXLES

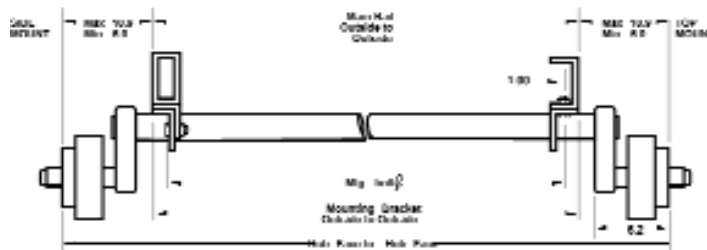
For information on ordering and installing Torflex axles, see pages A-25 thru A-27.
For specific ordering information, please call your nearest Branch.

#9 TORFLEX SPECIFICATIONS

MOUNTING DETAILS



AXLE
ASSEMBLIES



Difference between hub face and outside mounting brackets

Minimum

12.00" (6" per side)

Maximum

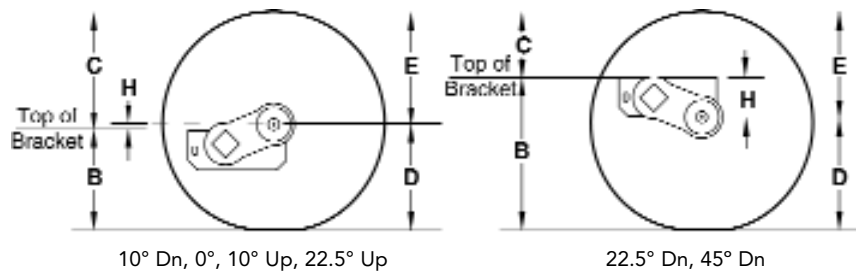
21.80" (10.9" per side)

Note: Minimums are based on manufacturing tolerances only.
Some tire and wheel combinations may create interference.



Full Load Dimensions

Dimensions are for low profile, top mount only. Side mount is .25" higher. Allow 3" bump clearance from full load.



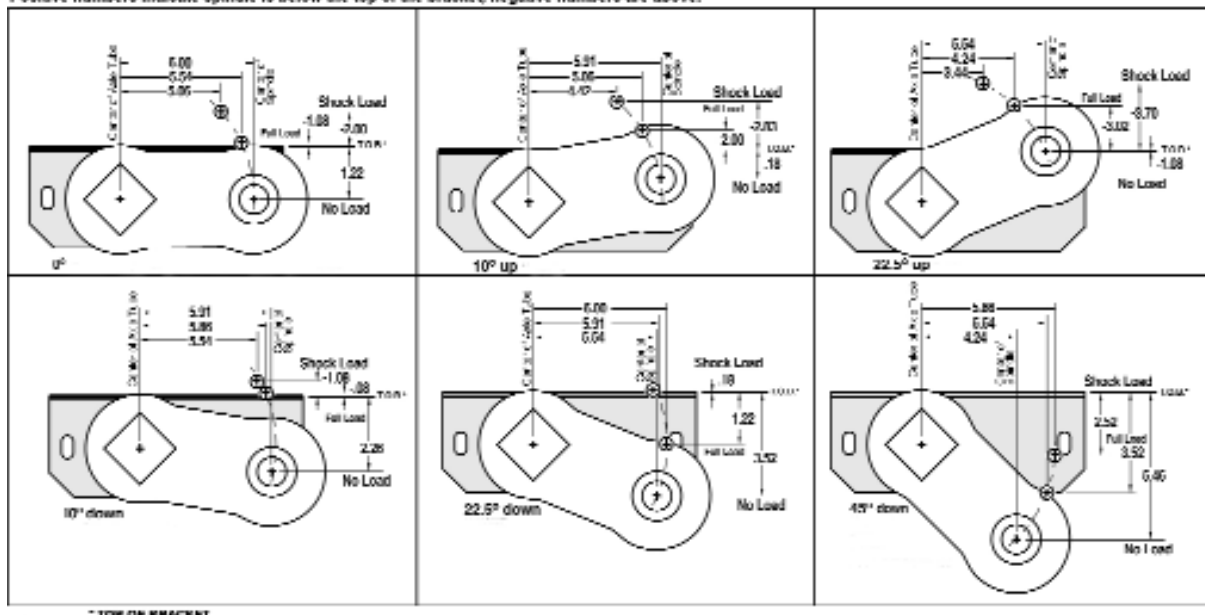
H = Center Line of spindle to top of bracket, **B** = Top of bracket to ground, **C** = Top of bracket to top of tire,
D = Center Line of spindle to ground, **E** = Center Line of spindle to top of tire.

Tire	Start Angle																			
	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		
ST175/80R13	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	11.2	12.0
4.80-8	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	7.9	8.8
4.80-12	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	9.5	10.8
20.5x8.0-10	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	9.7	10.8

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.



* TOP OF BRACKET



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Bolt Pattern Options:

- 5 on 4 1/2" • 5 on 4 3/4" • 5 on 5"
- 5 on 5 1/2" • 6 on 5 1/2"

Brake Options: With or without parking feature.

- 10 x 2 1/4" Electric
- 10 x 2 1/4" Hydraulic (Uni-Servo & Freebacking)
- Hydraulic Disc: 5 on 4 1/2" only

Spindles: TTH (#84 Spindle)

L68149 Inner, L44649 Outer Bearings

Lubrication: • Grease • E-Z Lube • Nev-R-Lube

Wheel Assemblies: See Section E

Replacement Parts:

- Hubs:** See Page B-14
- Hub/Drums:** See Page B-21, B-33(Nev-R-Lube)
- Hub/Rotor:** See Page B-35
- Brakes:** See Page C-10 (Electric),
Page C-26 (Hydraulic Drum),
Page B-35 (Hydraulic Disc)
- Axle Beams:** See Page B-3

10 Torflex Axle Assemblies

Axle Type	5 on 4 1/2"	5 on 4 3/4"	5 on 5"	5 on 5 1/2"	6 on 5 1/2"
Idler	10TF35-545I	10TF35-5475I	10TF35-550I	10TF35-555I	10TF35-655I
Idler w/ E-Z Lube	10TF35-545I-EZ	10TF35-5475I-EZ	10TF35-550I-EZ	10TF35-555I-EZ	10TF35-655I-EZ
Electric	10TF35-545E	10TF35-5475E	10TF35-550E	10TF35-555E	10TF35-655E
Electric w/ E-Z Lube	10TF35-545E-EZ	10TF35-5475E-EZ	10TF35-550E-EZ	10TF35-555E-EZ	10TF35-655E-EZ
Electric w/ Nev-R-Lube	N/A	N/A	N/A	N/A	10TF35-655E-NL
Single Servo Hydraulic	10TF35-545H	10TF35-5475H	10TF35-550H	10TF35-555H	10TF35-655H
Single Servo Hydraulic w/ E-Z Lube	10TF35-545H-EZ	10TF35-5475H-EZ	10TF35-550H-EZ	10TF35-555H-EZ	10TF35-655H-EZ
Single Servo Hydraulic w/ Nev-R-Lube	N/A	N/A	N/A	N/A	10TF35-655H-NL
Hydraulic Freeback	10TF35-545HFB	10TF35-5475HFB	10TF35-550HFB	10TF35-555HFB	10TF35-655HFB
Hydraulic Freeback w/ E-Z Lube	10TF35-545HFB-EZ	10TF35-5475HFB-EZ	10TF35-550HFB-EZ	10TF35-555HFB-EZ	10TF35-655HFB-EZ
Hydraulic Freeback w/ Nev-R-Lube	N/A	N/A	N/A	N/A	10TF35-655HFB-NL
Hydraulic Disc	10TF35-545DS	N/A	N/A	N/A	N/A
Hydraulic Disc w/ E-Z Lube	10TF35-545DS-EZ	N/A	N/A	N/A	N/A

#10 Torflex Mounting Kit & Axle Option

Part No.	Ref. No.	Type
XTRA-HF-10TF	056225	EXTRA CHARGE (PER AXLE) FOR AXLES WITH OVER 96" HUB FACE
10TF-PWC	056230	EXTRA CHARGE FOR #10 TORFLEX ELECTRIC W/ PWC OPTION INSTALLED
AP166	056310	WELD ON MOUNTING BRACKET KIT FOR #10 TORFLEX AXLE

For information on ordering and installing Torflex axles, see pages A-25 thru A-27.

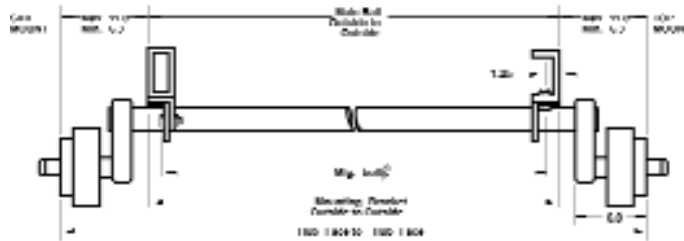
For specific ordering information, please call your nearest Branch.

#10 TORFLEX SPECIFICATIONS



AXLE ASSEMBLIES

MOUNTING DETAILS



Difference between hubface and outside mounting bracket

12.60" (6.3 per side)/Disc=13.00" (6.5" per side)

Maximum

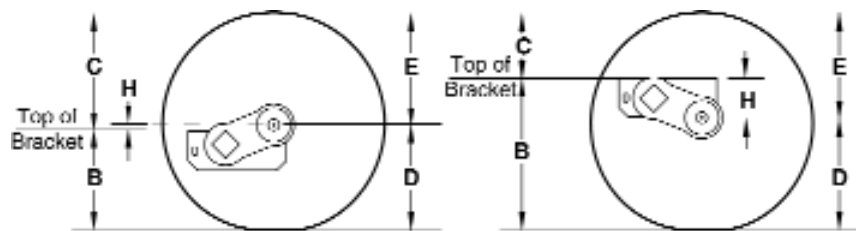
23.60" (11.8 per side)

Note: Minimums are based on manufacturing tolerances only.
Some tire and wheel combinations may create interference.



Full Load Dimensions

Dimensions are for low profile, top mount only. Side mount is .25" higher. Allow 3" bump clearance from full load.



10° Dn, 0°, 10° Up, 22.5° Up

22.5° Dn, 45° Dn

H = Center Line of spindle to top of bracket, **B** = Top of bracket to ground, **C** = Top of bracket to top of tire,

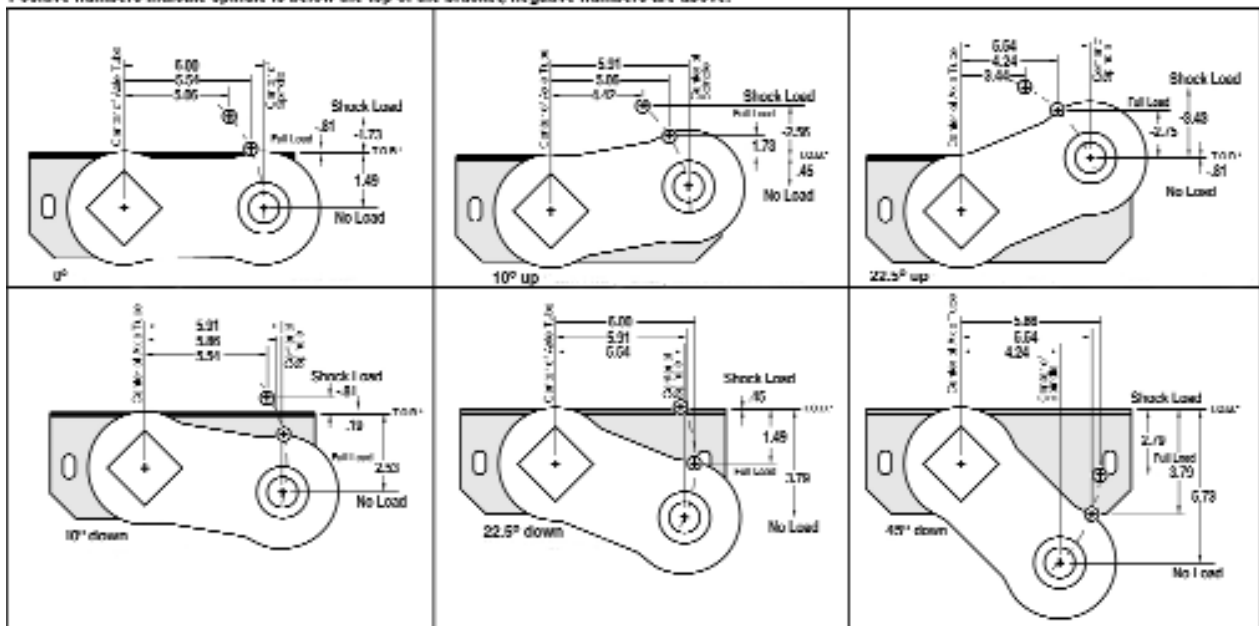
D = Center Line of spindle to ground, **E** = Center Line of spindle to top of tire.

Tire	Start Angle																			
	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	D	E
ST175/80R13	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	11.2	12.0
ST205/75R14	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	12.1	13.1
ST225/75R15	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	13.0	14.4

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.



* TOP OF BRACKET



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Bolt Pattern Options:

- 6 on 5 1/2" • 8 on 6 1/2"
- UTG 5-Spoke, for 14.5" wheels

Brake Options:

With or without parking feature.

- 12 x 2" Electric
- 12 x 2" Hydraulic (Uni-Servo, Freebacking and Duo-Servo)
- Hydraulic Disc: 6 on 5 1/2" only

Spindles:

TTA (#42 Spindle w/2 1/4" seal journal)
25580 Inner, LM67048, 15123, or
14125A Outer Bearings

Lubrication: • Grease • E-Z Lube

- Oil Bath • Nev-R-Lube

Wheel Assemblies: See Section E

Replacement Parts:

Idler Hub: See Page B-15 and B-16

Hub/Drums: See Page B-22 - B-24
B-34(Nev-R-Lube)

Hub/Rotor: See Page B-36

Brakes: See Page C-11 (Electric),
Page C-27 & 28
(Hydraulic Drum),
Page B-36 (Hydraulic Disc)

Axle Beams: See Page B-3

#11 Torflex Axle Assemblies

Axle Type	6 on 5 1/2"	8 on 6 1/2"	UTG 5-SPOKE
Idler			
Std Grease	11TF60-655I	11TF60-865I	11TF60-UTGI
w/ E-Z Lube	11TF60-655I-EZ	11TF60-865I-EZ	11TF60-UTGI-EZ
w/ Oil Bath	N/A	11TF60-865I-OIL	11TF60-UTOI-OIL
Electric			
Std Grease	11TF60-655E	11TF60-865E	11TF60-UTGE
w/ E-Z Lube	11TF60-655E-EZ	11TF60-865E-EZ	11TF60-UTGE-EZ
w/ Nev-R-Lube	11TF60-655E-NL	11TF60-865E-NL	N/A
w/ Oil Bath	N/A	11TF60-865E-OIL	11TF60-UTOE-OIL
Single Servo Hydraulic			
Std Grease	11TF60-655H	11TF60-865H	11TF60-UTGH
w/ E-Z Lube	11TF60-655H-EZ	11TF60-865H-EZ	11TF60-UTGH-EZ
w/ Nev-R-Lube	11TF60-655H-NL	11TF60-865H-NL	N/A
w/ Oil Bath	N/A	11TF60-865H-OIL	11TF60-UTOH-OIL
Single Servo Hydraulic Freeback			
Std Grease	11TF60655HFB	11TF60865HFB	11TF60-UTGHFB
w/ E-Z Lube	11TF60655HFBEZ	11TF60865HFBEZ	11TF60UTGHFBEZ
w/ Nev-R-Lube	11TF60655HFBNL	11TF60865HFBNL	N/A
w/ Oil Bath	N/A	11TF60-865HFBOIL	11TF60-UTOHFBOIL
Duo-Servo Hydraulic			
Std Grease	11TF60-655HY	11TF60-865HY	11TF60-UTGHY
w/ E-Z Lube	11TF60-655HY-EZ	11TF60-865HY-EZ	11TF60-UTGHY-EZ
w/ Nev-R-Lube	11TF60-655HY-NL	11TF60-865HY-NL	N/A
w/ Oil Bath	N/A	11TF60-865HYOIL	11TF60-UTOHYOIL
Hydraulic Disc			
Std Grease	11TF60-655DS	N/A	N/A
w/ E-Z Lube	11TF60-655DS-EZ	N/A	N/A
w/ Nev-R-Lube	11TF60-655DS-NL	N/A	N/A
w/ Oil Bath	N/A	N/A	N/A

#11 Torflex Mounting Kit & Axle Options

Part No.	Ref. No.	Type
XTRA-HF-11TF	060150	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 96" HUB FACE
11TF-PWC	060160	EXTRA CHARGE FOR #11 TORFLEX ELECTRIC W/ PWC OPTION INSTALLED
AP167	060190	WELD ON MOUNTING BRACKET KIT FOR #11 TORFLEX AXLE

For information on ordering and installing Torflex axles, see pages A-25 thru A-27.

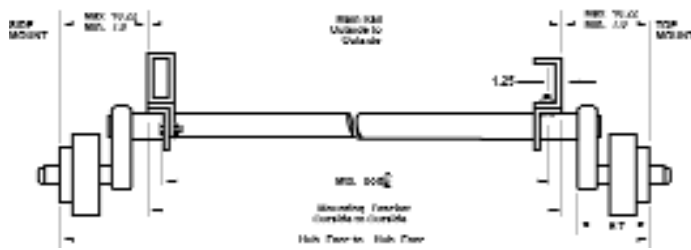
For specific ordering information, please call your nearest Branch.

#11 TORFLEX SPECIFICATIONS

MOUNTING DETAILS



AXLE
ASSEMBLIES



Difference between hubface and outside mounting bracket

Minimum

14.00" (7" per side)/Disc=15.00" (7.5" per side)

Maximum

5200 lb. - 23.60" (11.8 per side)

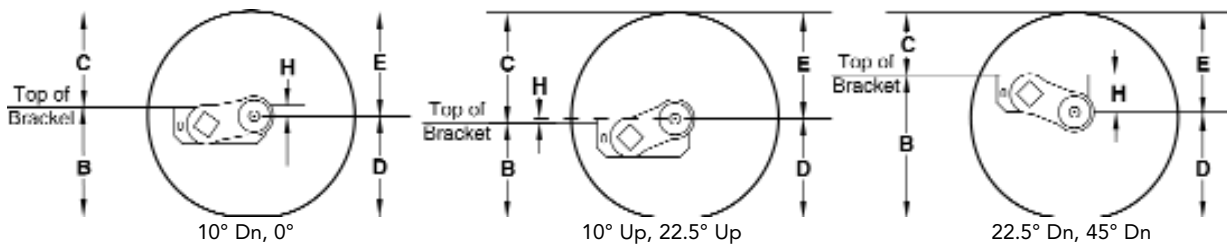
6000 lb. - 20.45" (10.22 per side)

Note: Minimums are based on manufacturing tolerances only.
Some tire and wheel combinations may create interference.



Full Load Dimensions

Dimensions are for low profile, top mount only. High profile brackets are .75" higher. Side mount is .25" higher.
Allow 3" bump clearance from full load.



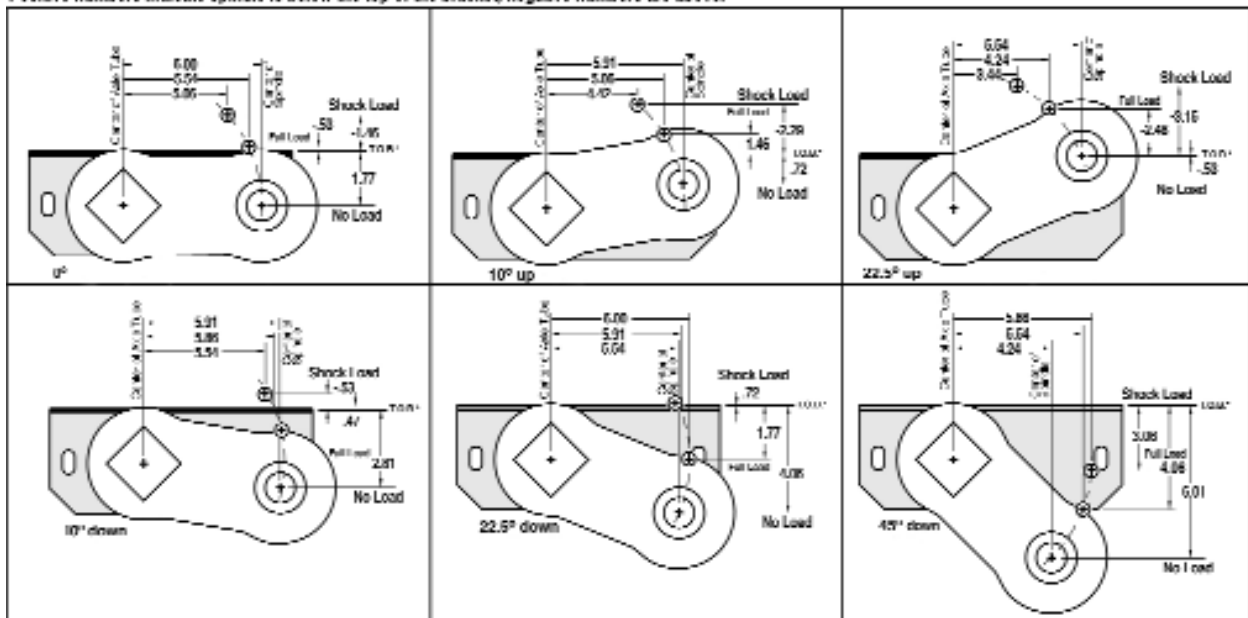
H = Center Line of spindle to top of bracket, B = Top of bracket to ground, C = Top of bracket to top of tire,
D = Center Line of spindle to ground, E = Center Line of spindle to top of tire.

Tire	Start Angle																			
	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	D	E
ST225/75R15	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	13.0	14.4
LT235/85R16	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	14.3	15.4
LT225/75R16	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	13.5	14.9
8.75R16.5 LT	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	13.8	14.8

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.





SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Bolt Pattern Options:

- #12 • 8 on 6 1/2" • UTG 5-Spoke
#12V • 8 on 6 1/2" (9/16" Studs Standard or optional 5/8")

Brake Options:

- #12 • With or without parking feature.
• 12 x 2 " Electric
• 12 x 2 " Hydraulic (Uni-Servo, Freebacking and Duo-Servo)
#12V • 12 1/4" x 2 1/2" Electric Only

Spindles:

- #12 • UTA (#42 Spindle w/2 1/4" seal journal) 25580 Inner, LM67048, 15123, or 14125A Outer Bearings
#12V • 25580 Inner, 02475 Outer Bearings

Lubrication:

- #12 • Grease • E-Z Lube • Oil Bath • Nev-R-Lube
#12V • Grease • E-Z Lube • Oil Bath

Wheel Assemblies: See Section E

Replacement Parts:

Idler Hub: #12 - See Page B-16
#12V - N/A

Hub/Drums: #12 - See Page B-24, B-34 (Nev-R-Lube)
#12V - See Page B-25

Brakes: #12 - See Page C-11 (Electric),
Page C-27 & C-28 (Hydraulic)
#12V - See Page C-14 (Electric)

Axle Beams: #12 & #12V - See Page B-3

#12 Torflex Axle Assemblies - 7,000 lb

Axle Type:	8 on 6 1/2"	UTG 5-SPOKE
Idler		
Std Grease	12TF70-865I	12TF70-UTGI
w/ E-Z Lube	12TF70-865I-EZ	12TF70-UTGI-EZ
w/ Oil Bath	12TF70-865I-OIL	12TF70-UTOI-OIL
Electric		
Std Grease	12TF70-865E	12TF70-UTGE
w/ E-Z Lube	12TF70-865E-EZ	12TF70-UTGE-EZ
w/ Nev-R-Lube	12TF70-865E-NL	N/A
w/ Oil Bath	12TF70-865E-OIL	12TF70-UTOE-OIL
Single Servo Hydraulic		
Std Grease	12TF70-865H	12TF70-UTGH
w/ E-Z Lube	12TF70-865H-EZ	12TF70-UTGH-EZ
w/ Nev-R-Lube	12TF70-865H-NL	N/A
W/ Oil Bath	12TF70-865H-OIL	12TF70-UTOH-OIL
Single Servo Hydraulic Freeback		
Std Grease	12TF70-865HFB	12TF70-UTGHFB
w/ E-Z Lube	12TF70-865HFBEZ	12TF70-UTGHFBEZ
w/ Nev-R-Lube	12TF70-865HFBNL	N/A
w/ Oil Bath	12TF70-865HFBOIL	12TF70-UTOHFBOIL
Duo-Servo Hydraulic		
Std Grease	12TF70-865HY	12TF70-UTGHY
w/ E-Z Lube	12TF70-865HY-EZ	12TF70-UTGHY-EZ
w/ Nev-R-Lube	12TF70-865HY-NL	N/A
w/ Oil Bath	12TF70-865HYOIL	12TF70-UTOHYOIL

#12V Torflex Axle Assemblies - 7,200 lb

Electric		
Std Grease	12TF72-865E	N/A
w/ E-Z Lube	12TF72-865E-EZ	N/A
w/ Oil Bath	12TF72-865E-OIL	N/A

#12 & 12V Torflex Mounting Kit & Axle Options

Part No.	Ref. No.	Type
XTRA-HF-12TF	063275	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 96" HUB FACE
12TF-PWC	063280	EXTRA CHARGE FOR #12 TORFLEX ELECTRIC W/ PWC OPTION INSTALLED
AP168	063290	WELD ON MOUNTING BRACKET KIT FOR #12 TORFLEX AXLE

For information on ordering and installing Torflex axles, see pages A-25 thru A-27.

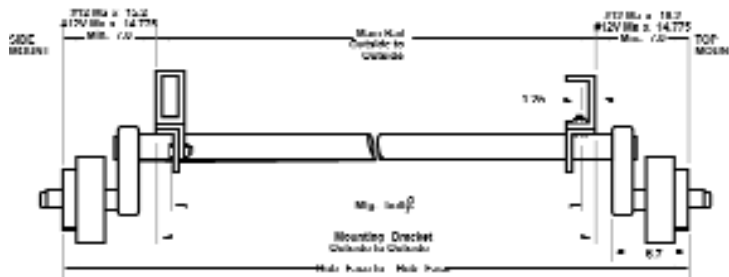
For specific ordering information, please call your nearest Branch.

#12 & #12V TORFLEX SPECIFICATIONS

MOUNTING DETAILS



AXLE
ASSEMBLIES



Difference between hubface and outside mounting bracket

Minimum

14.00" (7" per side)

Maximum

#12 - 30.40" (15.2" per side)

#12V - 29.55" (14.775" per side)

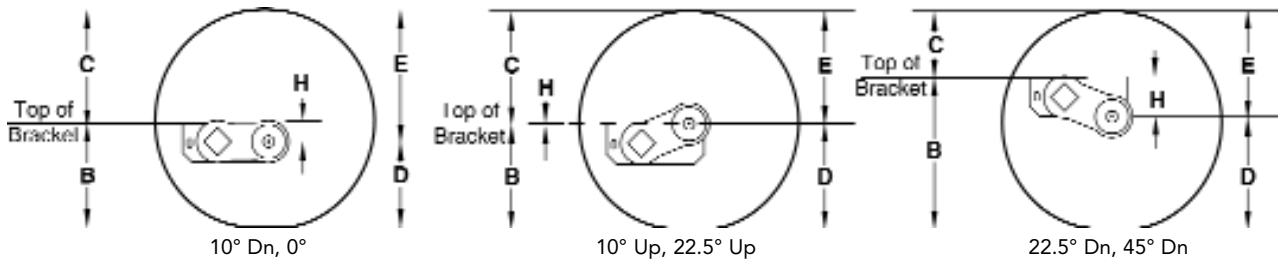
Note: Minimums are based on manufacturing tolerances only.

Some tire and wheel combinations may create interference.



Full Load Dimensions

Dimensions are for low profile, top mount only. High profile brackets are .75" higher. Side mount is .31" higher. Allow 3" bump clearance from full load.



H = Center Line of spindle to top of bracket, B = Top of bracket to ground, C = Top of bracket to top of tire,

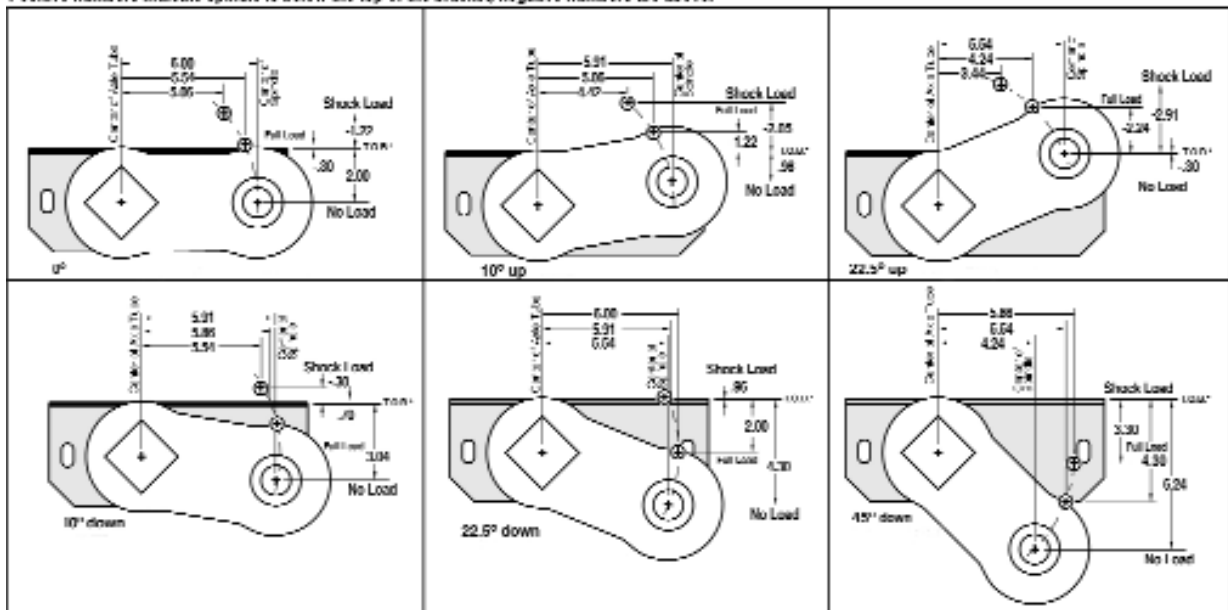
D = Center Line of spindle to ground, E = Center Line of spindle to top of tire.

Tire	Start Angle																					
	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	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	14.3	15.4		
7.50-16LT	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	14.9	16.7		
9.50-16.5LT	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	14.1	15.2		

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.



* TOP OF BRACKET



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Brake Options: (Forward Self-Adjusting)

- 12 1/4 X 3 3/8" Electric
- 12 1/4 X 3 3/8" Hydraulic (Duo-Servo Standard, Optional Uni-Servo) with or without parking feature
- Hydraulic Disc
- ABS Equipped options for hydraulic brakes

Bolt Pattern Options:

- 8 on 6 1/2" (9/16" Studs Standard or Optional 5/8")

Spindles: 25580 Inner, 02475 Outer Bearings

Lubrication: • Oil Bath • E-Z Lube • Nev-R-Lube

Wheel Assemblies: See Section E

Replacement Parts:

Idler Hub: See Page B-17

Hub/Drums: See Page B-27, B-34 (Nev-R-Lube)

Hub/Rotor: See Page B-38

Brakes: See Page C-15 (Electric),
Page C-29 (Hydraulic Drum),
Page B-38 (Hydraulic Disc)

Axle Beams: See Page B-3

#13 Torflex Axle Assemblies

Axle Type	8 on 6 1/2"
Idler Oil Bath	13TF80-865I
Idler w/ E-Z Lube	13TF80-865I-EZ
Electric Oil Bath	13TF80-865E
Electric w/ E-Z Lube	13TF80-865E-EZ
Electric w/ Nev-R-Lube	13TF80-865E-NL
Duo-Servo Hydraulic, Oil Bath	13TF80-865HY
Duo-Servo Hydraulic w/ E-Z Lube	13TF80-865HY-EZ
Duo-Servo Hydraulic w/ Nev-R-Lube	13TF80-865HY-NL
Hydraulic Disc Oil Bath	13TF80-865DS
Hydraulic Disc w/ EZ Lube	13TF80-865DS-EZ
Hydraulic Disc w/ Nev-R-Lube	13TF80-865DS-NL

#13 Torflex Mounting Kit & Axle Options

Part No.	Ref. No.	Type
XTRA-HF-13TF	064625	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 96" HUB FACE
13TF-HYD-PARK	064800	HYDRAULIC BRAKES W/ PARK, ADD TO #13 TORFLEX HYDRAULIC BRAKE AXLE PRICE
13TF-PWC	064850	EXTRA CHARGE FOR #13 TORFLEX ELECTRIC W/ PWC OPTION INSTALLED
13TF-ADD-HYABS	064860	EXTRA CHARGE (PER AXLE) FOR HYDRAULIC BRAKE AXLES W/ ABS SENSORS & TONE RINGS INSTALLED
AP169	064900	WELD ON MOUNTING BRACKET KIT FOR #13 TORFLEX AXLES

For information on ordering and installing Torflex axles, see pages A-25 thru A-27.

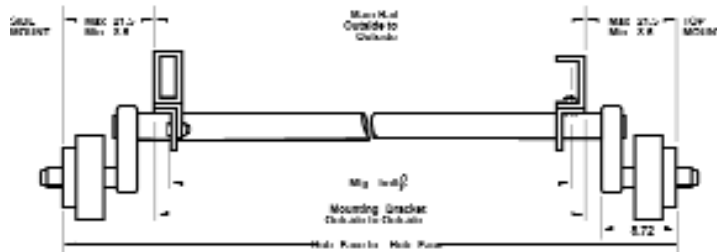
For specific ordering information, please call your nearest Branch.

#13 TORFLEX SPECIFICATIONS

MOUNTING DETAILS



AXLE ASSEMBLIES



Difference between hub face and outside mounting bracket

Minimum

17.00" (8.5" per side)

Maximum

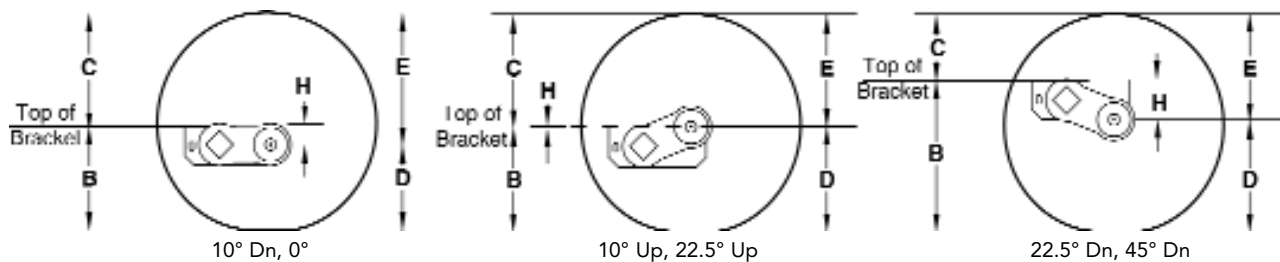
43.00" (21.5" per side)

Note: Minimums are based on manufacturing tolerances only.

Some tire and wheel combinations may create interference.

Full Load Dimensions

Dimensions are for low profile, top mount only. High profile brackets are .75" higher. Side mount is .31" higher. Allow 3" bump clearance from full load.



H = Center Line of spindle to top of bracket, **B** = Top of bracket to ground, **C** = Top of bracket to top of tire,

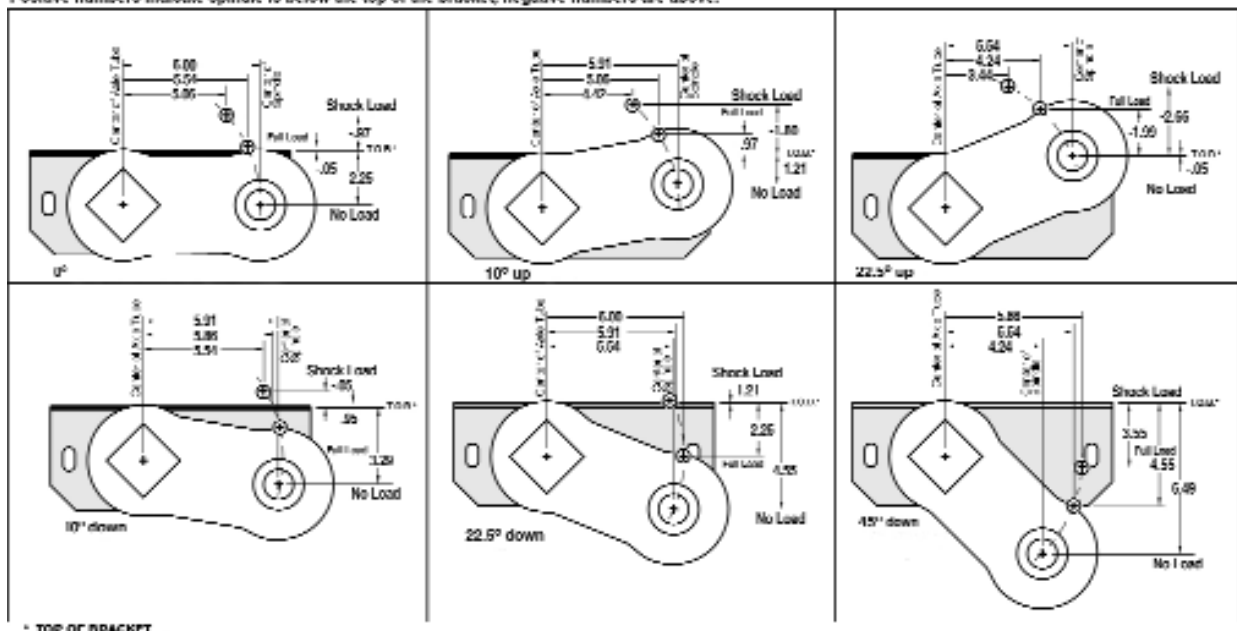
D = Center Line of spindle to ground, **E** = Center Line of spindle to top of tire.

Tire	Start Angle																			
	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	D	E
10R17.5 HC	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	15.6	18.0
215/75R 17.5	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	14.0	15.3
12-16.5 LT	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	14.9	15.8
9.50-16.5 LT	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	14.1	15.2
9R 17.5 HC	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	15.4	17.1

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.

^a TOP OF BRACKET



SPECIFICATIONS

Suspension: Features an independent suspension cushioned with rubber, providing a smooth, quiet ride with no transfer of road shock from one wheel to the other. (No springs required)

Brake Options: (Forward Self Adjusting)

- #10K GD • 12 1/4 x 3 3/8" Electric
 • 12 1/4 x 3 3/8" Hydraulic: Duo-Servo, Standard; (Optional Uni-Servo) with or without parking feature
 • ABS Equipped Option for Hydraulic Brakes

- #10K HD • 12 1/4 x 4" Electric
 • 12 1/4 x 4" Hydraulic: Duo-Servo, Standard; (Optional Uni-Servo) with or without parking feature
 • ABS Equipped Option for Hydraulic Brakes

Bolt Pattern Options:

- #10K GD & HD • 8 on 6 1/2"

Spindles:

- #10K GD • 387A Inner, 25580 Outer Bearings
 #10K HD • 395S Inner, 387A Outer Bearings

Lubrication:

- #10K GD & HD • Oil Bath

Wheel Assemblies: See Section E

#10K General Duty Torflex Axle Assemblies

Axle Type	8 on 6 1/2"	ABS Equipped, 8 on 6 1/2"
Electric	10GDTF-865E	N/A
Duo-Servo Hydraulic	10GDTF-865HY	10GDTF-865HABS

#10K Heavy Duty Torflex Axle Assemblies

Axle Type	8 on 6 1/2"	ABS Equipped, 8 on 6 1/2"
Electric	10HDTF-865E	N/A
Duo-Servo Hydraulic	10HDTF-865HY	10HDTF-865HABS

Replacement Parts:

Hub/Drums: 10K GD & HD

See Page B-29, B-30

Brakes: 10K GD - See Page C-16 (Electric), Page C-30 (Hydraulic)
 10K HD - See page C-18 (Electric), Page C-31 (Hydraulic)

10K Torflex Mounting Kit and Axle Options

Part No.	Ref. No.	Description
XTRA-HF-10KTF	064965	EXTRA CHARGE (PER AXLE) FOR AXLES OVER 80" HUB FACE
10KTF-HYD-PARK	064970	HYDRAULIC BRAKES W/ PARK, ADD TO 10K TORFLEX HYDRAULIC BRAKE AXLE PRICE
10KTF-PWC	064975	EXTRA CHARGE FOR 10K TORFLEX ELECTRIC W/ PWC OPTION INSTALLED
AP169	064900	WELD-ON MOUNTING KIT FOR 10K TORFLEX AXLE

For information on ordering and installing Torflex axles, see pages A-25 thru A-27.
 For specific ordering information, please call your nearest Branch.

10K TORFLEX SPECIFICATIONS

MOUNTING DETAILS



Difference between hub face and mounting brackets

Minimum

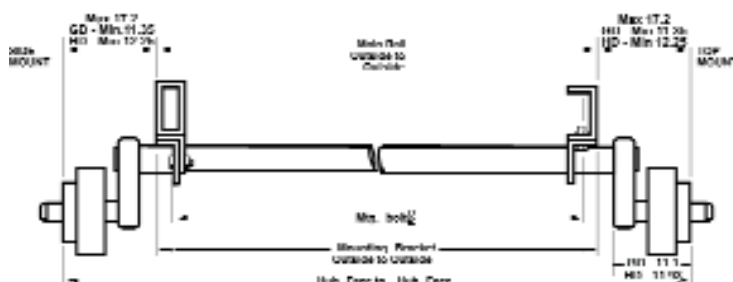
10K GD - 22.70" (11.35" per side)

10K HD - 24.50" (12.25" per side)

Maximum

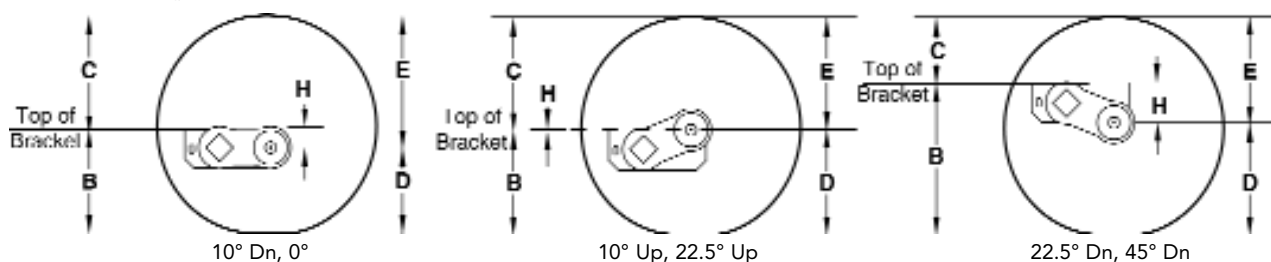
10K GD & HD - 34.40" (17.2" per side)

Note: Minimums are based on manufacturing tolerances only.
Some tire and wheel combinations may create interference.



Full Load Dimensions

Dimensions are for low profile, top mount only. High profile brackets are .75" higher. Side mount is .31" higher. Allow 3" bump clearance from full load.



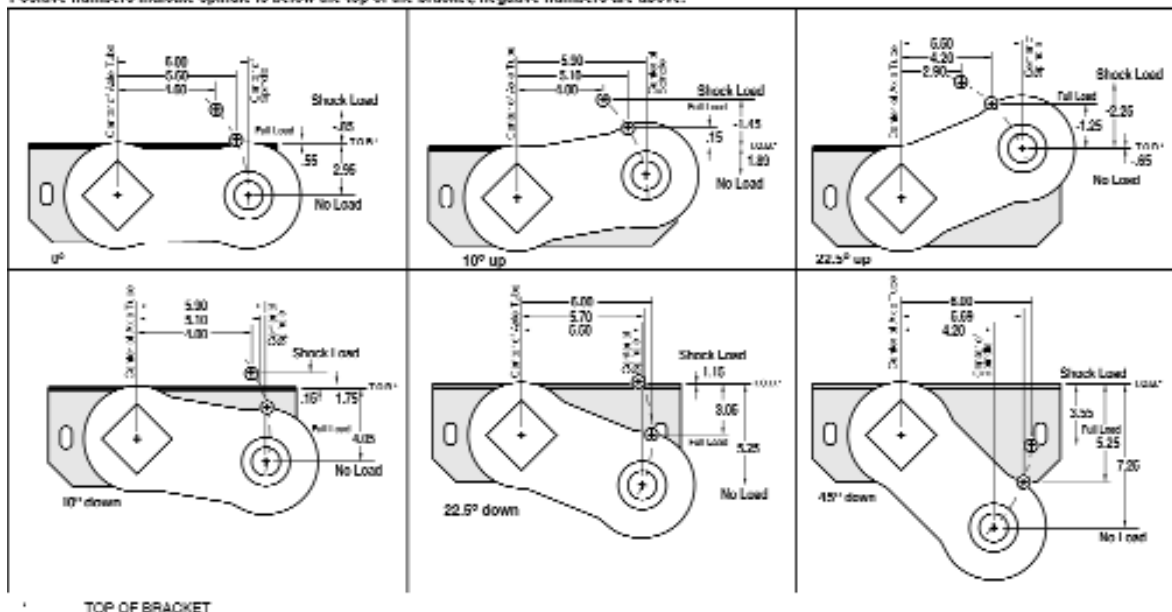
H = Center Line of spindle to top of bracket, B = Top of bracket to ground, C = Top of bracket to top of tire,
D = Center Line of spindle to ground, E = Center Line of spindle to top of tire.

Tire	Start Angle																					
	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				
10R17.5 HC	5.2	20.2	13.4	2.9	17.9	15.7	1.6	16.6	17.0	0.6	15.6	18.0	-0.3	14.6	18.9	-1.3	13.6	19.9	15.6	18.0		
215/75R 17.5	5.2	18.6	10.8	2.9	16.3	13.1	1.6	15.0	14.4	0.6	14.0	15.4	-0.3	13.0	16.3	-1.3	12.0	17.3	14.0	15.3		
12-16.5 LT	5.2	19.5	11.3	2.9	17.2	13.6	1.6	15.9	14.9	0.6	14.9	15.9	-0.3	13.9	16.8	-1.3	12.9	17.8	14.9	15.8		
9.50-16.5 LT	5.2	18.7	10.6	2.9	16.4	12.9	1.6	15.1	14.2	0.6	14.1	15.2	-0.3	13.1	16.1	-1.3	12.1	17.1	14.1	15.2		
9R 17.5 HC	5.2	20.0	12.5	2.9	17.7	14.8	1.6	16.4	16.1	0.6	15.4	17.1	-0.3	14.4	18.0	-1.3	13.4	19.0	15.4	17.1		

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.



TOP OF BRACKET

How to read Torflex Articulation Dimensions

Note: Dimensions shown here are for example only. Refer to specific Torflex Axle Page for correct dimensions.

A) How high do I set the fenders?

Look at the 0° drawing: The 1.49 is distance from center of spindle to top of bracket.
The -.81 is how far arm moves above bracket for 'Full Load'.

1.49	To top bracket
±.81	From top bracket to 'Full Load'
2.3	Travel from 'No Load' to 'Full Load'

Fenders should be located 5.3" above tires when 'No Load' (2.3" + 3.00 DEX REQ).



B) What is 'Shock Load'?

'Shock Load' -1.73 is how far arm travels above the top of bracket. The distance the arm moves from 'Full Load' to 'Shock Load' is the difference of .92.

1.73	Distance arm moves from 'Full Load' to 'Shock Load'
-.81	Full Load Dimension
0.92	Travel from 'Full Load' to 'Shock Load'

C) What do the + marks on the curved broken line represent?

This line tells us how far forward the tire moves at each of the load points.

Using the 0° drawing again: Notice the 6.0 distance from center of spindle to center of inner bar. When the arm travels up to 'Full Load', the tire is moved forward .46". At 'Shock Load', the tire has moved forward .94".

D) When trailing arm starts at 22.5° or 45° down, the calculations are subtractions rather than addition.

Look at 22.5° down drawing.

3.79	'No Load' is 3.79 from top of bracket
- 1.49	'Full Load' is 1.49 from top of bracket
2.30	Travel from "No Load" to "Full Load"

'Shock Load' is .45 below top of bracket, so the travel from 'Full Load' 3.79 to 'Shock Load' .45 is 3.34".

ARTICULATION DIMENSIONS

ALLOW 3" BUMP CLEARANCE FROM FULL LOAD.

Positive numbers indicate spindle is below the top of the bracket, negative numbers are above.

