

100% inspected for proper alignment

Forged torsion arm for maximum strength.



- 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

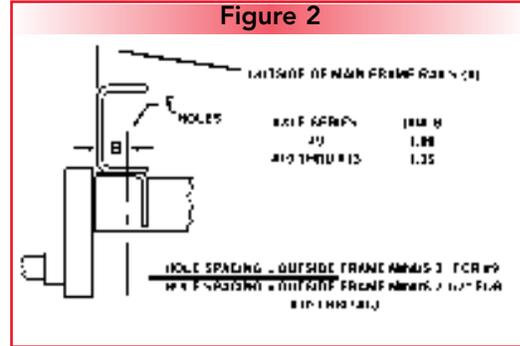
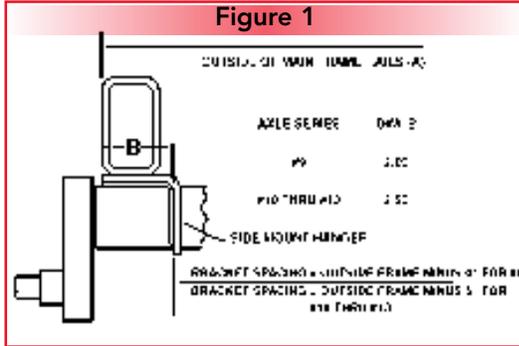
Step 1:

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.

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



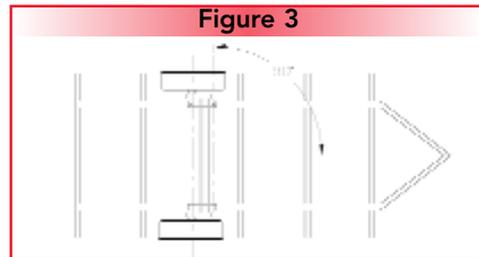
Step 3:

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:

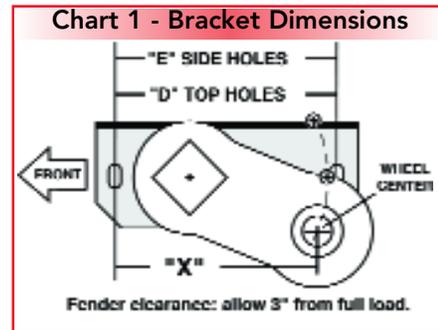
Misalignment of the axle(s) can cause poor tracking and accelerated tire wear.



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.

- A. 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.



Torflex Axle Model	Mounting Hole to Wheel - Dimension "X" (inches)												Mounting Hole Spacing Inches		
	Start Angle of Trailing Arm												Dim "D" (Top)	Dim "E" (Side)	
	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	No Load	Full Load		
#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	6.08	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	7.92	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	8.04	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	9.04	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	9.04	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	9.17	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.