

# Maintenance & Service

## HUB INSPECTION AND REMOVAL

### A. Removal of Hub

1. Remove wheel
2. Remove grease cap or bearing buddy
3. Remove cotter pin
4. Unscrew the spindle nut counter clockwise
5. Remove spindle washer
6. Remove hub from spindle

### B. Seal Inspection and Replacement

1. Seals should be replaced each time the hub is removed.
2. Pry the seal out of the hub with a screwdriver.
3. Tap new seal into place.

### C. Bearing Maintenance, Adjustments, and Replacement

1. Inspect for corrosion and wear.
2. If any rust or wear exists on the bearing then remove and replace.
3. If bearings are found to be in good condition, then cleaning and repacking the grease is all that is needed.  
**Note: Do not spin bearings with compressed air.** (See page A-27 for wheel bearing grease.)
4. Hand pack each bearing individually using a premium water resistant wheel bearing grease.
5. Reinstall the hub, reversing the procedure above using the bearing adjustment procedures below.
6. If you have the Accu-Lube system remove the rubber plug and place grease gun (no air powered grease guns) onto the zerk. Pump in new grease until you see the old grease flowing back out the cap. Wipe off old grease with a towel. Be sure to re-install rubber plug.

### D. Bearing Adjustment

1. **Recommended Setting** – The typical trailer hub uses a hardened washer and slotted hex nut for bearing adjustment. Hubs are usually set with a free-running clearance or endplay of 0.001" to 0.010". **The use of a dial indicator is the only satisfactory method of checking adjustment.**
2. **Feel and Drag Method** – Tighten slotted nut until hub drags slightly when rotated. (Rotating the hub while tightening the nut seats the bearing.)  
Loosen the slotted nut 1/6 turn (1 hex) to align nut slot with the cotter pin hole. Wheel should turn freely.  
Insert new cotter pin through nut and spindle. If necessary loosen, **never tighten**, nut to align slot with the hole in the spindle. Bend one leg of cotter pin over the end of the spindle and the other leg over the nut. Tap legs slightly to set. Cotter pin must be tight.
3. **Torque Wrench Method** – Make sure nut is loose.  
Tighten nut with torque wrench to an initial torque of 50 ft. lbs.

Loosen nut from initial torque and finger tighten.

Insert new cotter pin through nut and spindle. If necessary loosen, **never tighten**, nut to align slot with the hole in the spindle. Bend one leg of cotter pin over the end of the spindle and the other leg over the nut. Tap legs slightly to set. Cotter pin must be tight.

4. **Perform Dial Indicator Test** – Attach Dial Indicator block to the wheel.

With both hands, push the wheel towards the trailer.

Set the sensory tip of the dial indicator against the outer edge of the spindle.

Set the dial indicator to zero.

Grasp the tire at the top and bottom and gently pull out.

Check the reading on the dial indicator for the amount of endplay present in the bearing. (0.001" to 0.010")

Readjust the bearing if **required**.

| MAINTENANCE SCHEDULE    |                                                 |                            |                            |                              |
|-------------------------|-------------------------------------------------|----------------------------|----------------------------|------------------------------|
| Item                    | Function Required                               | 3 Months<br>or 3,000 Miles | 6 Months<br>or 6,000 Miles | 12 Months<br>or 12,000 Miles |
| Brakes                  | Test that they are operational                  | Before every use           |                            |                              |
| Brake Adjustment        | Adjust to proper operating clearance            | ✓                          |                            |                              |
| Brake Magnets           | Inspect for wear and current draw               |                            | ✓                          |                              |
| Brake Linings           | Inspect for wear and contamination              |                            |                            | ✓                            |
| Brake Controller        | Check for correct amperage and modulation       |                            | ✓                          |                              |
| Brake Cylinders         | Check for leaks, sticking                       |                            |                            | ✓                            |
| Brake Lines             | Inspect for cracks, leaks, kinks                |                            |                            | ✓                            |
| Trailer Brake Wiring    | Inspect wiring for bare spots, fray, etc.       |                            |                            | ✓                            |
| Breakaway Systems       | Check battery charge and switch operation       | Before every use           |                            |                              |
| Hub/Drum                | Check for abnormal wear or scoring              |                            |                            | ✓                            |
| Wheel Bearings & Cups   | Inspect for corrosion or wear; clean and repack |                            |                            | ✓                            |
| Seals                   | Inspect for leakage; replace if removed         |                            |                            | ✓                            |
| Springs                 | Inspect for wear, loss or arch                  |                            |                            | ✓                            |
| Suspension Parts        | Inspect for bending, loose fasteners, wear      |                            | ✓                          |                              |
| Hangers                 | Inspect welds                                   |                            |                            | ✓                            |
| Wheel Nuts and Bolts    | Tighten to specified torque values              |                            | ✓                          |                              |
| Wheels                  | Inspect for cracks, dents, or distortion        | ✓                          |                            |                              |
| Tire Inflation Pressure | Inflate tires to mfg's. specifications          | Before every use           |                            |                              |
| Tire Condition          | Inspect for cuts, wear, bulging, etc.           | ✓                          |                            |                              |

# Ordering Axles

We have provided this information to make your job of selecting Quality Running Gear easier. If you have any questions or need further assistance call one of our trained sales people at any one of our convenient locations. When selecting an axle you will need to consider the following factors:

## GROSS AXLE WEIGHT RATING

Gross Axle Weight Rating (GAWR) is a rating of the maximum weight allowed to be placed on the running gear assembly and is based on the combined individual capacities of all the running gear components. That is, the maximum capacity of the axles, suspension, tires and wheels. Keep in mind the GAWR can only be rated as high as the weakest of the running gear components.

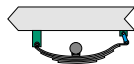
**Example:** A GAWR of 5,920 lbs. is based on an axle capacity of 7,000 lbs. (3,500 x 2 ea.), a spring capacity of 7,000 lbs. (1,750 x 4 ea.), a wheel capacity of 7,280 lbs. (1,820 x 4 ea.) and a tire capacity of 5,920 lbs. (1,480 x 4 ea.).

## GROSS VEHICLE WEIGHT RATING

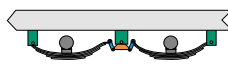
Gross Vehicle Weight Rating (GVWR) is a rating of the maximum Gross Vehicle Weight (GVW) that a trailer should legitimately weigh when fully loaded. GVWR is determined by a combination of the GAWR, coupler capacity and the frame design capacity. To figure the GVWR add 10% of the coupler capacity (25% for goosenecks) to the GAWR. Now, compare the resulting figure with the frame design capacity. The **lower** of the two figures would be your GVWR. **Example 1:** A trailer with a GAWR of 5,920 lbs., a coupler rating of 7,000 lbs. and a frame design capacity of 7,000 lbs. could have a GVWR rating of 6,620 lbs. **Example 2:** A trailer with a GAWR of 5,920 lbs., a coupler rating of 7,000 lbs. and a frame design capacity of 6,500 lbs. could have a GVWR rating of 6,500 lbs.

## NUMBER OF AXLES

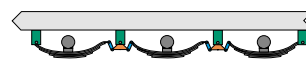
Based on GAWR determine whether you want a single, tandem, or a triple axle setup. Use this information to determine axle capacity requirements.



Single



Tandem



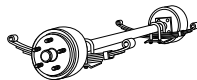
Triple

## AXLE TYPE

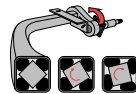
Decide on what type you will be using, tubular or torsion. Tubular axles are available in multiple material dimensions and require additional suspension components. "Equalizer" torsion axles have the suspension built into the axle. **Note:** See section B for springs, u-bolts and hanger kits used on tubular axles.



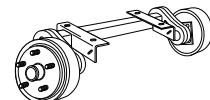
Axle Tube



Tubular Axle



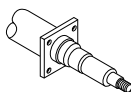
Torsion Tube



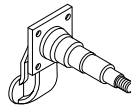
Torsion Axle

## SPINDLE CONFIGURATION

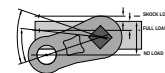
Trailer ride heights are affected by the spindle configuration. Tubular axles are available with straight or drop spindles. "Equalizer" torsion axles use specific start angles on the trailing arms. **Note:** See page A-11 for trailing arm starting angles and dimensions.



Straight Spindle



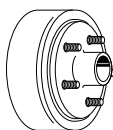
Drop Spindle



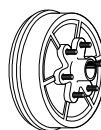
Trailing Arm

## BOLT PATTERN

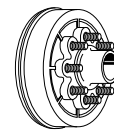
The bolt pattern depends on the capacity of the axle. Yet the bolt pattern does not identify the axle capacity. It is however a factor. Multiple bolt pattern configurations are available for each axle group. Be aware that the tire and wheel capacity should match the axle capacity. **Note:** See page K-1 for directions in measuring bolt patterns.



5 Bolt



6 Bolt



8 Bolt

# Ordering Axles

## BRAKES

Axles are available in both idler and braking configurations. Determine braking requirements based upon the number of axles, GVW and the applicable State and Federal laws. There are many options in the area of brakes; electric, hydraulic uniservo, hydraulic duoservo, hydraulic freebacking, hydraulic disc or air. **Note:** If you have questions regarding braking requirements, contact the Department of Transportation or local authorities.



Electric



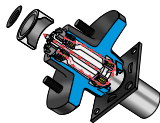
Hydraulic Drum



Hydraulic Disc

## LUBRICATION

Standard lubrication for 2,000 to 7,000 lb. axles is grease. The "Accu-Lube" option and bearing protectors are available on most, as well as an oil bath option on some. 8,000 through 25,000 lb. axles are standard with 90-wt oil bath lube.



Accu-Lube Spindle Assy.



Bearing Protector

## OTHER OPTIONS

Some other areas that might need consideration may be the axle tube or hub finish. Black paint is the standard finish with Galvanized tube, Hot Dip Galvanizing and Zinc plating are also available. V-Bend, camber and internally wired axle tube are a few of the popular options listed in the following reference chart.



Zinc Plated Hub



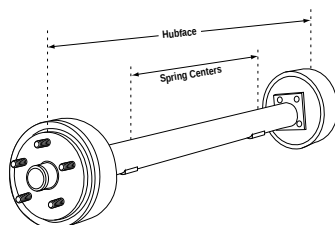
V-Bend

## AXLE HUB FACE

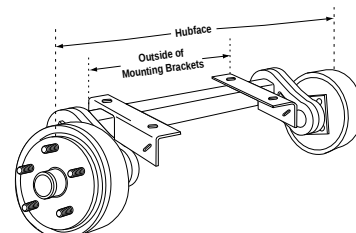
This is the industry standard for measuring axle length. It is taken from the flat surface on the hub, where the studs exit the casting, to the same surface on the opposite side of the axle. **Caution!** This is not to be confused with "Track" which is measured from center of tire to center of tire. **Note:** See page A-9 for alternate methods of measuring hub face.

## AXLE ATTACHMENT CONFIGURATION

On tubular axles this is referred to as "Spring Center." It is the measurement from the center of the spring pad to the center of the spring pad on the opposite side of the axle. The pads can be mounted on the top or bottom of the axle tube. On "Equalizer" torsion axles this is referred to as "Outside of Bracket." It is measured from the outside of the bracket to the outside of the bracket on the opposite side of the axle. The brackets can be specified for top mount or side mount and are available in standard or high mount versions. **Note:** Consult page A-8 for minimum and maximum difference between hub face and axle attachment measurements.



Tubular Axle



Torsion Axle

# Axle Specifications & Options

| Area         | Available Options                                             |
|--------------|---------------------------------------------------------------|
| Lubrication  | Grease Lube                                                   |
|              | Accu-Lube                                                     |
|              | Bearing Protectors                                            |
|              | Oil Bath Lube                                                 |
| Studs        | ½" Zinc Studs                                                 |
|              | ½" X 2" Zinc Studs (standard with Disc Brakes)                |
|              | ⅝" Studs                                                      |
|              | ⅝" Studs                                                      |
|              | ¾" Studs                                                      |
|              | Swivel Flange Nuts                                            |
|              | Tension Ring with ⅝" Cone nuts                                |
| Bolt Circles | 4 Bolt on 4" Circle                                           |
|              | 4 Bolt on 4.25" Circle                                        |
|              | 5 Bolt on 4.5" Circle with 5.75" Flange (standard 2K Idler)   |
|              | 5 Bolt on 4.5" Circle with 6.25" Flange (standard 3.5K Idler) |
|              | 5 Bolt on 4.75" Circle                                        |
|              | 5 Bolt on 5" Circle                                           |
|              | 5 Bolt on 5.5" Circle                                         |
|              | 6 Bolt on 5.5" Circle                                         |
|              | 6 Bolt on 6" Circle (Idler only)                              |
|              | 8 Bolt on 6.5" Circle                                         |
|              | 8 Bolt on 6.5" Circle, Hub piloted with 4.88" Pilot           |
|              | 8 Bolt on 6.5" Circle, Hub piloted with 4.75" Pilot           |
|              | 8 Bolt on 6.5" Circle, Stud piloted with 4.75" Pilot          |
| Hubs         | Zinc Plated Hubs                                              |
|              | Zinc Plated Hub and Drums                                     |
|              | Galvanized Hubs                                               |
| Seals        | Single Lip Seal                                               |
|              | Double Lip Seal (standard with Accu-Lube)                     |
|              | Unitized Seal                                                 |
|              | Stainless Steel Spindle Seal Sleeve                           |
| Brakes       | Electric Brake                                                |
|              | Hydraulic Brake, Duo-Servo                                    |
|              | Hydraulic Brake, Uni-Servo                                    |
|              | Hydraulic Brake, Uni-Servo with parking feature               |
|              | Hydraulic Brake, Free Backing                                 |
|              | Hydraulic Brake, Uni-Servo Premier                            |
|              | Hydraulic Brake, Uni-Servo Free Backing Premier               |
|              | Hydraulic Disc Brake                                          |
|              | Hydraulic Disc Brake, E-Coat                                  |
|              | Hydraulic Disc Brake, Bronze                                  |
|              | Air Brake                                                     |

# Axle Specifications & Options

|  | Tubular Axles |      |      |     |     |     |     |     |     |     | Torsion Axles |      |     |     |     |
|--|---------------|------|------|-----|-----|-----|-----|-----|-----|-----|---------------|------|-----|-----|-----|
|  | 2K            | 3.5K | 5.2K | 6K  | 7K  | 8K  | 9K  | 10K | 10H | 12K | 2K            | 3.5K | 6K  | 7K  | 8K  |
|  | Std           | Std  | Std  | Std | Std | X   | X   | X   | X   | X   | Std           | Std  | Std | Std | X   |
|  | X             | X    | X    | X   | X   | X   |     |     |     |     | X             | X    | X   | X   | X   |
|  | X             | X    | X    | X   | X   |     |     |     |     |     | X             | X    | X   | X   | X   |
|  |               |      |      | X   | X   | Std | Std | Std | Std | Std |               |      | X   | X   | Std |
|  | Std           | Std  | Std  | Std | Std |     |     |     |     |     | Std           | Std  | Std | Std |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     | X             | X    | X   | X   |     |
|  |               |      |      | X   | X   | Std |     |     |     |     |               |      | X   | X   | Std |
|  |               |      |      |     |     | X   | Std | Std | Std | Std |               |      |     |     | X   |
|  |               |      |      |     |     |     |     |     | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     | X   | X   | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     | Std | Std | Std | X   |               |      |     |     |     |
|  | X             |      |      |     |     |     |     |     |     |     | X             |      |     |     |     |
|  | X             |      |      |     |     |     |     |     |     |     | X             |      |     |     |     |
|  | X             | X    |      |     |     |     |     |     |     |     | X             | X    |     |     |     |
|  | X             | X    |      |     |     |     |     |     |     |     | X             | X    |     |     |     |
|  |               | X    |      |     |     |     |     |     |     |     |               | X    |     |     |     |
|  |               | X    |      |     |     |     |     |     |     |     |               | X    |     |     |     |
|  |               | X    |      |     |     |     |     |     |     |     |               | X    |     |     |     |
|  |               | X    | Std  | X   |     |     |     |     |     |     |               | X    | X   |     |     |
|  |               |      | X    | X   | X   |     |     |     |     |     |               |      | X   | X   |     |
|  |               |      |      | Std | Std | Std |     |     |     |     |               |      | Std | Std | Std |
|  |               |      |      |     |     |     | Std | Std | Std | Std |               |      |     |     |     |
|  |               |      |      |     |     |     | X   | X   | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     | X   | X   | X   | X   |               |      |     |     |     |
|  | X             | X    | X    | X   | X   |     |     |     |     |     | X             | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   | X   |     |     | X   | X   |               | X    | X   | X   | X   |
|  |               | X    | X    | X   | X   | X   |     |     |     |     |               | X    | X   | X   | X   |
|  |               | X    | X    |     |     |     |     |     |     |     |               | X    |     |     |     |
|  |               |      |      |     |     |     |     |     | X   | X   |               | X    |     |     |     |

# Axle Specifications & Options

| Area           | Available Options                                         |
|----------------|-----------------------------------------------------------|
| Brakes         | Air Spring Brake                                          |
| (continued)    | Manual Slack Adjusters                                    |
|                | Automatic Slack Adjusters                                 |
|                | ABS Sensors (6K, 7K and 8K Disc only)                     |
|                | Brake Flange on Idler Axle                                |
|                | Pre-Wired Axle Tubing                                     |
|                | Brake Wire Protectors                                     |
|                | Long Magnet Lead Wires                                    |
| Spindles       | BT-8 Spindle                                              |
|                | BT-16 Spindle                                             |
|                | #84 Spindle                                               |
|                | #42 Spindle                                               |
|                | #99 Spindle                                               |
|                | #120 Spindle                                              |
|                | Straight Spindle                                          |
|                | 4" Drop Spindle (2K with 2" x 2" Square only)             |
|                | 3" Drop Spindle (2" x 2" Square & 2" x 3" Rec. tube only) |
|                | 2" Drop Spindle (2" x 2" Square & 2" x 3" Rec. tube only) |
| Axle Materials | Cambered Axle Tubing                                      |
|                | V-Bend Tubing                                             |
|                | Galvanized Axle Tubing (Cold zinc spray weld)             |
|                | Galvanized Axle Beam                                      |
|                | 1.75" X .1875" Round Tube                                 |
|                | 2.375" X .1875" Round Tube                                |
|                | 3" X .1875" Round Tube                                    |
|                | 3" X .25" Round Tube                                      |
|                | 3.5" X .25" Round Tube                                    |
|                | 4" X .25" Round Tube                                      |
|                | 5" X .25" Round Tube                                      |
|                | 5.125" X .3125" Round Tube                                |
|                | 2.173" X .149" Round Corner Square Tube                   |
|                | 2.625" X .187" Round Corner Square Tube                   |
|                | 3.031" X .203" Round Corner Square Tube                   |
|                | 3.50" X .25" Round Corner Square Tube                     |
|                | 3.875" X .25" Round Corner Square Tube                    |
|                | 2" X .25" Round Corner Square Tube                        |
|                | 2.5" X .25" Round Corner Square Tube                      |
|                | 2" X 3" X .25" Round Corner Rectangular Tube              |
| Attachments    | Adjustable Spring Seat                                    |
|                | High Mount Brackets +.5"                                  |
|                | High Mount Brackets +2"                                   |
|                | High Mount Brackets +3"                                   |

# Axle Specifications & Options

|  | Tubular Axles |      |      |     |     |     |     |     |     |     | Torsion Axles |      |     |     |     |
|--|---------------|------|------|-----|-----|-----|-----|-----|-----|-----|---------------|------|-----|-----|-----|
|  | 2K            | 3.5K | 5.2K | 6K  | 7K  | 8K  | 9K  | 10K | 10H | 12K | 2K            | 3.5K | 6K  | 7K  | 8K  |
|  |               |      |      |     |     |     |     |     | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     | X   | X   |               |      |     |     |     |
|  |               |      |      | X   | X   | X   |     |     | X   | X   |               |      |     |     |     |
|  | X             | Std  | Std  | Std | Std | Std | Std | Std | Std | Std | Std           | Std  | Std | Std | Std |
|  | X             | X    | X    | X   | X   | X   |     |     |     |     | X             | X    | X   | X   | X   |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  |               | X    | X    | X   | X   |     |     |     |     |     |               | X    | X   | X   |     |
|  | X             |      |      |     |     |     |     |     |     |     |               |      |     |     |     |
|  | Std           |      |      |     |     |     |     |     |     |     | Std           |      |     |     |     |
|  |               | Std  |      |     |     |     |     |     |     |     |               | Std  |     |     |     |
|  |               |      | Std  | Std | Std | Std |     |     |     |     |               |      | Std | Std | Std |
|  |               |      |      |     |     |     | Std | Std |     |     |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     | Std | Std |               |      |     |     |     |
|  | Std           | X    | X    | X   | X   | X   | Std |     | Std | Std |               |      |     |     |     |
|  |               | X    | X    | X   | X   | X   |     |     |     |     |               |      |     |     |     |
|  | X             | X    | X    |     |     |     |     |     |     |     |               |      |     |     |     |
|  | X             | X    | X    |     |     |     |     |     |     |     |               |      |     |     |     |
|  | X             | X    | X    | X   | X   | X   |     |     |     |     | Std           | Std  | Std | Std | Std |
|  |               |      |      |     |     |     |     |     |     |     | X             | X    | X   |     |     |
|  | X             | X    | X    |     |     |     |     |     |     |     |               |      |     |     |     |
|  | X             | X    | X    | X   | X   | X   |     |     |     |     | X             | X    | X   | X   | X   |
|  | Std           |      |      |     |     |     |     |     |     |     |               |      |     |     |     |
|  |               | Std  |      |     |     |     |     |     |     |     |               |      |     |     |     |
|  |               | X    | Std  | Std |     |     |     |     |     |     |               |      |     |     |     |
|  |               |      | X    | X   | Std |     |     |     |     |     |               |      |     |     |     |
|  |               |      |      |     |     | Std |     |     |     |     |               |      |     |     |     |
|  |               |      |      |     |     |     | Std |     |     |     |               |      |     |     |     |
|  |               |      |      |     |     |     |     | Std |     |     |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     | Std | Std |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     |     | Std |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     |     |     | Std           |      |     |     |     |
|  |               |      |      |     |     |     |     |     |     |     |               | Std  |     |     |     |
|  |               |      |      |     |     |     |     |     |     |     |               |      | Std |     |     |
|  |               |      |      |     |     |     |     |     |     |     |               |      |     |     | Std |
|  | X             | X    |      |     |     |     |     |     |     |     |               |      |     |     |     |
|  |               | X    | X    | X   |     |     |     |     |     |     |               |      |     |     |     |
|  |               | X    | X    | X   |     |     |     |     |     |     |               |      |     |     |     |
|  |               |      |      |     |     |     |     | X   | X   | X   |               |      |     |     |     |
|  |               |      |      |     |     |     |     |     |     |     |               | X    | X   | X   | Std |
|  |               |      |      |     |     |     |     |     |     |     | X             | X    |     |     |     |
|  |               |      |      |     |     |     |     |     |     |     | X             | X    |     |     |     |

# Ordering 2-8K Axles

The part numbers we have selected for our axles have specific numbers assigned to correspond to the type of beam, axle capacity, axle length, spring center or outside bracket, bolt pattern and type of hub. Each part number is divided into specific digit groups with certain characters in each digit. Each digit group has a specific significance. The basic part number system is outlined in the example below.

|           |           |            |            |            |          |          |          |
|-----------|-----------|------------|------------|------------|----------|----------|----------|
| <b>TS</b> | <b>35</b> | <b>885</b> | <b>705</b> | <b>545</b> | <b>H</b> | <b>B</b> | <b>C</b> |
|-----------|-----------|------------|------------|------------|----------|----------|----------|

## Axle Beam Type

TS = Tubular straight  
 TD = Tubular 4" drop  
 SS = 2" Square straight  
 SD = 2" Square 4" drop  
 5S = 2.5" Square straight  
 5D = 2.5" Square 4" drop  
 RS = Rectangular straight  
 RD = Rectangular 4" drop  
 EA = Equalizer, 22.5° up  
 EB = Equalizer, 10° up  
 EC = Equalizer, 0°  
 ED = Equalizer, 10° down  
 EE = Equalizer, 22.5° down  
 EF = Equalizer, 45° down

## Axle Capacity

20 = 2,000 lbs.  
 35 = 3,500 lbs.  
 52 = 5,200 lbs.  
 60 = 6,000 lbs.  
 70 = 7,000 lbs.  
 80 = 8,000 lbs.

**Note:** Equalizer axles can be de-rated by 100 lb. increments. (Example: EA29 is a de-rated EA35)  
 See page A-10 for capacity range.

## Hubface Dimension

880 = 88" Hubface  
 882 = 88.25" Hubface  
 885 = 88.5" Hubface  
 888 = 88.75" Hubface  
 025 = 102.5" Hubface  
 160 = 116" Hubface or 16" Hubface

**Note:** Hubface tolerance + or - 0.25".

## Mounting Dimension

700 = 70" spring center or outside of bracket  
 702 = 70.25" spring center or outside of bracket  
 705 = 70.5" spring center or outside of bracket  
 708 = 70.75" spring center or outside of bracket  
 000 = Pads loose

**Note:** 'See page A-8 for minimum and maximum difference between mounting and hubface measurements.

\*Mounting attachment tolerance + or - 0.25".

## TS

## Hub Bolt Pattern and Finish Options

440 = 4 on 4" bolt pattern  
 442 = 4 on 4.25" bolt pattern  
 545 = 5 on 4.5" bolt pattern  
 54W = 5 on 4.5" bolt pattern, 6.25" flange (2K idler)  
 54N = 5 on 4.5" bolt pattern, 5.75" flange, 2" stud (3.5K idler)  
 54L = 5 on 4.5" bolt pattern, 6.25" flange, 2" stud (3.5K idler)  
 547 = 5 on 4.75" bolt pattern  
 550 = 5 on 5" bolt pattern  
 555 = 5 on 5.5" bolt pattern  
 655 = 6 on 5.5" bolt pattern  
 65L = 6 on 5.5" bolt pattern, 2" stud (5.2K - 6K idler)  
 660 = 6 on 6" bolt pattern  
 865 = 8 on 6.5" bolt pattern  
 86L = 8 on 6.5" bolt pattern, 2" stud (6K - 7K idler)  
 86T = 8 on 6.5" bolt pattern, 3/8" stud (7K)  
 86L = 8 on 6.5" bolt pattern, 3/8" stud (8K)  
 \*\*G = Galvanized hub (Idler only)  
 \*\*P = Zinc plated hub or hub and drum  
 \*\*B = Black studs

**Note:** Zinc studs standard on 2K thru 7K except 2K brake

## Brake Options

I = Idler with flange (2K standard without)  
 B = Idler with flange/double lip seal  
 C = Idler without flange/double lip seal  
 G = Idler/prewired beam  
 E = Electric brake  
 D = Electric brake/double lip seal  
 W = Electric brake/prewired axle or prewired beam  
 # = Electric brake/prewired axle/flexguard  
 K = Electric brake/prewired axle/double lip seal  
 L = Electric brake/prewired axle/brake wire protector  
 M = Electric brake/prewired axle/double lip seal/brake wire protector  
 J = Electric brake/brake wire protector  
 N = Electric brake/brake wire protector/double lip seal  
 A = Electric brake/long lead wire  
 Z = Electric brake/long lead wire/double lip seal  
 Q = Electric brake/brake wire protector/long lead wire  
 R = Electric brake/brake wire protector/double lip seal/long lead wire  
 H = Hydraulic brake, uniservo  
 3 = Hydraulic brake, duo-servo  
 S = Hydraulic brake, uniservo/double lip seal  
 F = Hydraulic brake, freebacking  
 T = Hydraulic brake, freebacking/double seal  
 P = Hydraulic brake, uniservo Premier  
 U = Hydraulic brake, Premier/double lip seal  
 Y = Hydraulic brake, freebacking Premier  
 V = Hydraulic brake, freebacking Premier/double lip seal  
 4 = Hydraulic brake, disc, plain  
 2 = Hydraulic brake, disc, E-Coat  
 6 = Hydraulic brake, disc, bronze  
 7 = Hydraulic brake, disc, plain/integral hub (3.5K only)  
 8 = Hydraulic brake, disc, E-Coat/integral hub (3.5K only)  
 X = None; axle beam/flange (standard 2K comes without flange)

## 545

## Mounting Position and Lube Options

P = Pads loose  
 Q = Pads loose/Accu-Lube  
 R = Pads loose/bearing protectors  
 X = Pads loose/oil bath  
 A = Bottom mount  
 B = Bottom mount/Accu-Lube  
 C = Bottom mount/bearing protectors  
 S = Bottom mount/oil bath  
 D = Top mount  
 E = Top mount/Accu-Lube  
 F = Top mount/bearing protectors  
 T = Top mount/oil bath  
 G = Side mount  
 H = Side mount/Accu-Lube  
 I = Side mount/bearing protectors  
 U = Side mount/oil bath  
 J = High top mount  
 K = High top mount/Accu-Lube  
 L = High top mount/bearing protectors  
 V = High top mount/oil bath  
 M = High side mount  
 N = High side mount/Accu-Lube  
 O = High side mount/bearing protectors  
 W = High side mount/oil bath  
 2 = Side mount/side mount kit attached  
 3 = High side mount/side mount kit attached  
 Y = Side mount/Accu-Lube/side mount kit attached  
 Z = High side mount/Accu-Lube/side mount kit attached  
 4 = Side mount/oil bath/side mount kit attached  
 5 = High side mount/oil bath/side mount kit attached

**Note:** Double lip seal standard on Accu-Lube

## Beam Options

X = None  
 C = Cambered beam  
 G = Galvanized beam  
 B = Cambered/galvanized beam  
 F = Galvanized beam/double bracket  
 H = V-bend beam  
 K = V-bend/galvanized beam  
 L = V-bend/galvanized beam/double bracket  
 M = Cambered beam/short spindle (2K tubular, 6K - 7K EQ)  
 S = Galvanized tube/cold zinc spray weld  
 T = Cambered/galvanized tube/cold zinc spray weld  
 (-) = Top and bottom mount spring pads attached

## B

## C

# Ordering 9-12K Axles

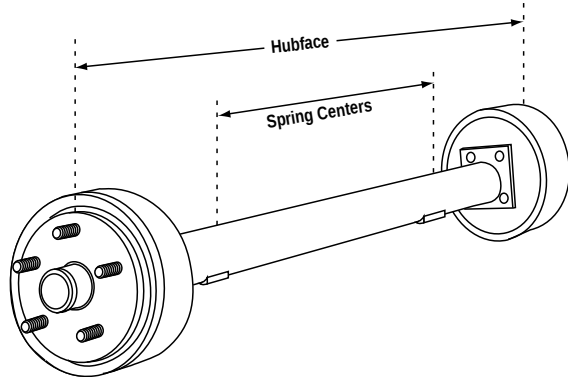
| 10K                                                                                                                                           | 740        | 470                                                                                                                                                                                                                                                                                                                                                                                                                         | 865        | E                                                                                                                                                                                                                                                                            | B        | S                                                                                                     | X        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|----------|
| <b>Axle Capacity</b><br>09K = 9,000 lbs.<br>10K = 10,000 lbs.<br>10H = 10,000 lbs. heavy duty<br>12K = 12,000 lbs.                            | <b>10K</b> | <b>Bolt Pattern, Lube and Pilot Options</b><br>865 = 8 on 6.5" bolt pattern, oil bath, hub piloted with 4.88" pilot<br>86G = 8 on 6.5" bolt pattern, grease lube, hub piloted with 4.88" pilot<br>86B = 8 on 6.5" bolt pattern, oil bath, hub piloted with 4.75" pilot<br>86C = 8 on 6.5" bolt pattern, oil bath, stud piloted with 4.75" pilot<br>86D = 8 on 6.5" bolt pattern, grease lube, stud piloted with 4.75" pilot | <b>865</b> | <b>Mounting Position</b><br>B = Bottom mount<br>A = Bottom mount/adjustable spring pads<br>C = Bottom mount/flange nuts<br>D = Bottom mount/flange nuts/adjustable spring pads<br>T = Top mount<br>S = Top mount/flange nuts<br>P = Pads loose<br>Q = Pads loose/flange nuts | <b>B</b> | <b>Spring Options</b><br>S = 2.5" wide spring mounted<br>W = 3" wide spring mounted<br>X = No springs | <b>S</b> |
| <b>Hubface Dimension</b><br>740 = 74" hubface<br>742 = 74.25" hubface<br>745 = 74.5" hubface<br>748 = 74.75" hubface                          | <b>740</b> | <b>Brake Options</b><br>I = Idler<br>E = Electric brake<br>H = Hydraulic duo servo brake<br>D = Hydraulic disc brake<br>A = Air brake<br>B = Air brake/ABS sensors installed<br>C = Spring air brake<br>F = Spring air brake/ABS sensors installed<br>X = Beam only (requires brake type in last character of part number)<br>S = Old style beam, seal area fits 23364SA seal (2.375" seal area)                            | <b>E</b>   | <b>Air Brake Options and Brake Designation</b><br>A = Automatic slack adjusters<br>B = Manual slack adjusters<br>X = Warner brake<br>H = Hays/Al-Ko brake<br>D = Dexter brake<br>I = Dana air brake spider                                                                   | <b>X</b> |                                                                                                       |          |
| <b>Mounting Dimension</b><br>470 = 47" spring center<br>472 = 47.25" spring center<br>475 = 47.5" spring center<br>478 = 47.75" spring center | <b>470</b> |                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                                                                                                                                                                                                                                                                              |          |                                                                                                       |          |

# Ordering 22.5-25K Axles

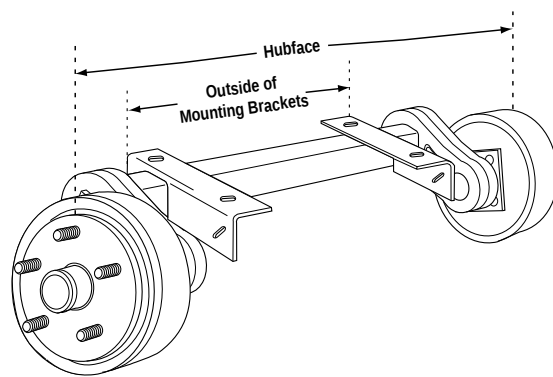
| 22K                                                                                                                          | 715        | 295                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3SI        | D                                                                                                                                                                                                                     | B        | A                                                                                             | X        |
|------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|----------|
| <b>Axle Capacity</b><br>22K = 22,500 lb./1.50" wall tube<br>25K = 25,000 lb./1.62" wall tube                                 | <b>22K</b> | <b>Hub, Bolt Pattern and Drum Options</b><br>3SI = 3 Spoke cast/inboard mount drum<br>5SI = 5 Spoke cast/inboard mount drum<br>18I = 10 Bolt on 8.75" circle/inboard mount drum<br>18O = 10 Bolt on 8.75" circle/outboard mount drum<br>11I = 10 Bolt on 11.25" circle/inboard mount drum<br>11O = 10 Bolt on 11.25" circle/outboard mount drum<br>12I = 10 Bolt on 285.75mm circle/inboard mount drum<br>12O = 10 Bolt on 285.75mm circle/outboard mount drum<br>X12 = No hub and drum/12.25" X 7.5" brake<br>X16 = No hub and drum/16.5" X 7" brake | <b>3S0</b> | <b>Adjuster Options</b><br>A = Straight manual slack adjusters<br>B = Straight automatic slack adjusters<br>C = Curved manual slack adjusters<br>D = Curved automatic slack adjusters                                 | <b>B</b> | <b>Lubrication Options</b><br>A = Standard seal and oil cap<br>B = Specialty seal and oil cap | <b>A</b> |
| <b>Track Dimension</b><br>715 = 71.5" Track<br>775 = 77.5" Track                                                             | <b>715</b> | <b>Brake Options</b><br>A = Standard type 30 air chambers<br>B = Type 30/30 spring brake air chambers<br>C = Standard type 30 air chambers/ABS sensor<br>D = Type 30/30 spring brake air chambers/ABS sensor                                                                                                                                                                                                                                                                                                                                          | <b>D</b>   | <b>Miscellaneous Options</b><br>X = None<br>A = Bud wheel nuts for steel inner and aluminum outer wheels<br>B = Bud wheel nuts for aluminum inner and outer wheels<br>C = Wheel nuts for super single aluminum wheels | <b>X</b> |                                                                                               |          |
| <b>Cam Dimension</b><br>290 = 29" Cam length<br>292 = 29.25" Cam length<br>295 = 29.5" Cam length<br>297 = 29.75" Cam length | <b>295</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |                                                                                                                                                                                                                       |          |                                                                                               |          |

# Measuring Axle Overhang

**Tubular Axle Overhang** Overhang is the difference between the hubface measurement and the spring centers on tubular axles.



**Torsion Axle Overhang** Overhang is the difference between the hubface and the distance between the mounting brackets.



## TUBULAR AXLE OVERHANG DIFFERENCES

| Axle Type | Minimum      |         | Maximum Both |
|-----------|--------------|---------|--------------|
|           | Idler        | Brake   |              |
| TS20      | 10.625 / 9"* | 10.625" | 19"          |
| SS20      | 10.625 / 9"* | 10.625" | 19"          |
| TS35      | 10"          | 13"     | 19"          |
| TD35      | 15"          | 15"     | 19"          |
| SS35      | 10"          | 13"     | 19"          |
| SD35      | 14"          | 14"     | 19"          |
| RS35      | 10"          | 13"     | 19"          |
| RD35      | 15"          | 15"     | 19"          |
| TS52      | 14"          | 14"     | 18"          |
| TD52      | 16"          | 16"     | 20.5"        |
| RS52      | 13.5"        | 13.5"   | 19"          |
| RD52      | 17.5"        | 17.5"   | 19"          |
| TS60      | 14"          | 14"     | 18"          |
| TD60      | 16"          | 16"     | 20.5"        |
| TS70      | 14"          | 14"     | 20.5"        |
| TD70      | 16"          | 16"     | 21"          |
| TS80      | 17"          | 17"     | 20.5"        |
| TD80      | 18"          | 18"     | 21"          |
| 9K-12K    | 27"          | 27"     | 32"          |

TS = Tubular Straight  
SS = Square Straight  
RS = Rectangular Straight

TD = Tubular Drop  
SD = Square Drop  
RD = Rectangular Drop

\*Short Spindle Option

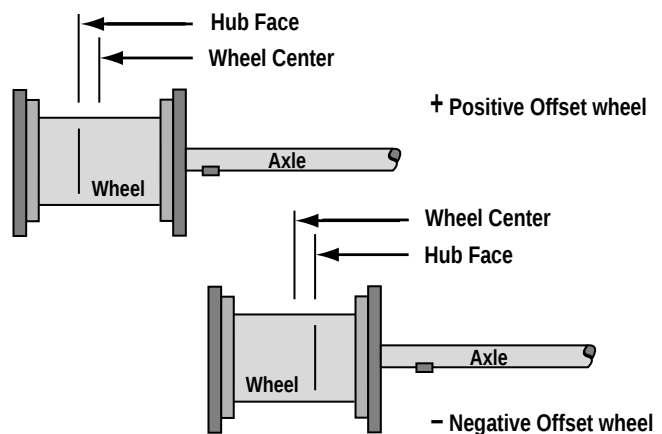
## TORSION AXLE OVERHANG DIFFERENCES AND HUBFACE MINIMUM

| Axle Type | Overhang    |         | Minimum Hubface |
|-----------|-------------|---------|-----------------|
|           | Minimum     | Maximum |                 |
| EQ20      | 12.5"       | 22"     | 45"             |
| EQ35      | 12.5"       | 24"     | 45"             |
| EQ60      | 14.5 / 14"* | 24"     | 50"             |
| EQ70      | 14.5 / 14"* | 28"     | 50"             |
| EQ80      | 17.5"       | 43"     | 54"             |

EQ = Equalizer

\*Short Spindle Option

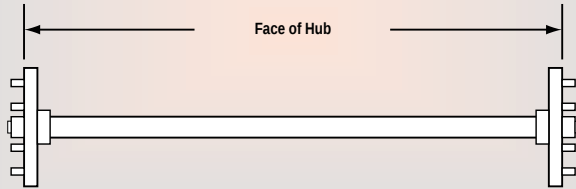
**Don't use tire centers** Due to the use of offset wheels, the center to center tire measurement *cannot* be used to order an axle. The actual hubface must be used.



# Measuring Axle Beams

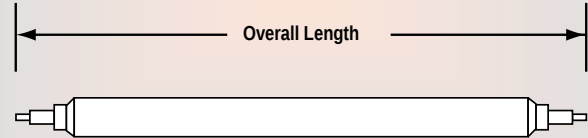
## Method 1: Hubface

Measure from face of hub to face of hub



## Method 2: Overall Length

Determine hubface by subtracting 5" from overall length for 2,000 lb. axles.  
Determine hubface by subtracting 5" from overall length for 3,500 lb. axles.  
Determine hubface by subtracting 6" from overall length for 6,000 lb. axles.  
Determine hubface by subtracting 6" from overall length for 7,000 lb. axles.



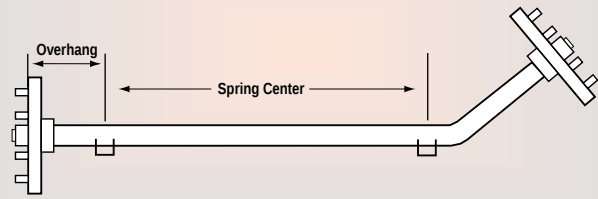
## Method 3: Flange to Flange

Determine hubface by adding 7" to the flange length for 2,000 lb. axles.  
Determine hubface by adding 6" to the flange length for 3,500 lb. axles.  
Determine hubface by adding 9" to the flange length for 6,000 lb. axles.  
Determine hubface by adding 9" to the flange length for 7,000 lb. axles.



## Method 4: Bent Beam

$\text{Springcenter} + \text{Overhang} \times 2 = \text{Hubface}$



**Ordering Replacement Beams** To insure that you order the correct replacement beam you will need to know the following information:

**1. Tube**

Is it round, square or rectangular; what is the diameter of the tube?

**2. Spindles**

Are they straight or drop; Accu-Lube or non-Accu-Lube?

**3. Hub Type**

What is the bolt pattern and bearing numbers?

**4. Hub Face**

What is the distance between the face of each hub?

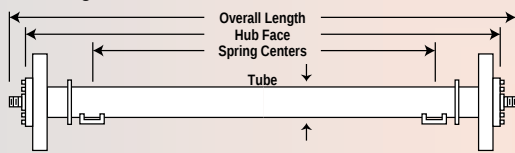
**5. Spring Center**

What is the distance from center of spring to center of spring?

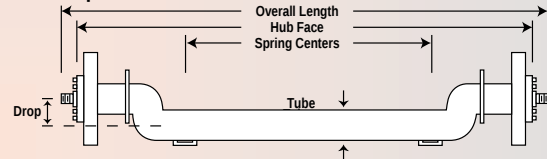
**6. Spring Placement**

Are the springs mounted on top or bottom of tube?

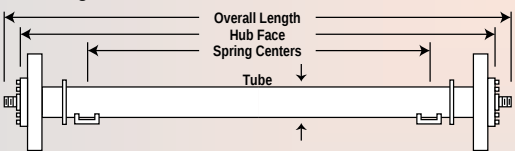
### Tubular Straight



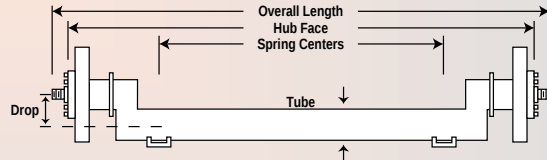
### Tubular Drop



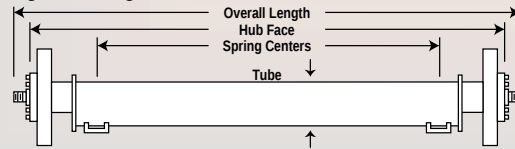
### Square Straight



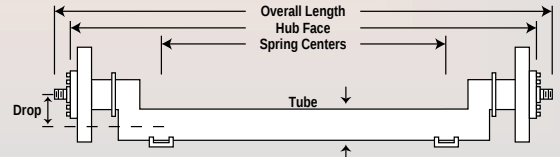
### Square Drop



### Rectangular Straight



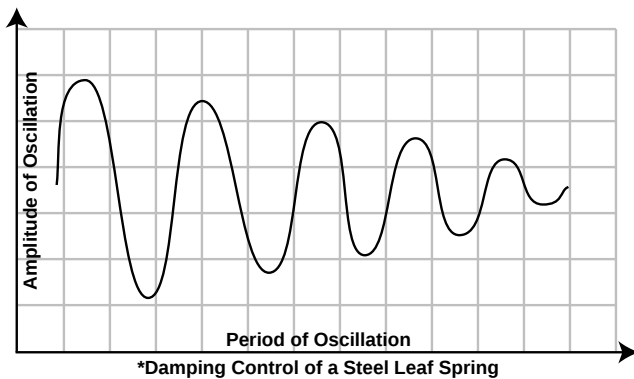
### Rectangular Drop



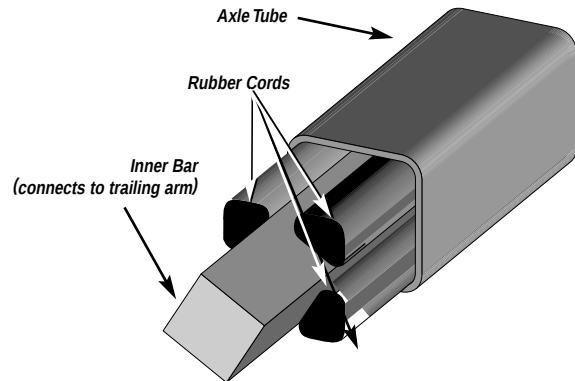
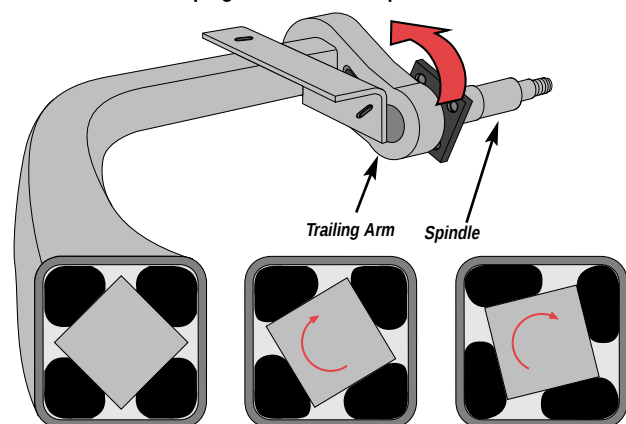
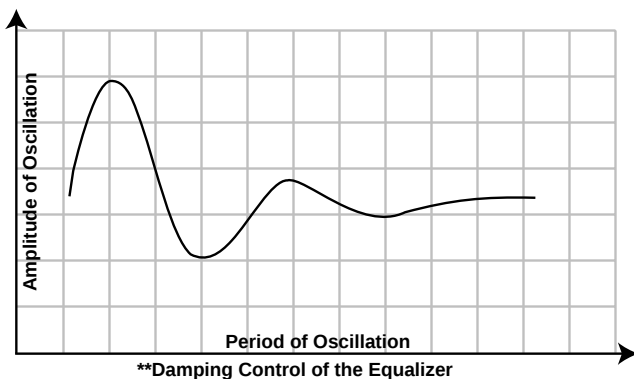


## The Equalizer Torsion Axle

**THE EQUALIZER TORSION AXLE MAKES LEAF SPRING SUSPENSION SYSTEMS OBSOLETE** Each spindle is attached to a trailing arm which rocks up and down during road shock. This movement is then transferred to a steel inner bar within the axle beam. Rubber cords then absorb the shock from the twisting inner bar. Leaf springs have high initial amplitude followed with many slowly diminishing oscillations – a very slow return to stability.



The Equalizer has the same initial amplitude, but see the swift dampening with quick return to stability.



## The Benefits

**SUPERIOR PERFORMANCE** The independent action provides greater control and stability which makes towing the trailer much easier. Wheel vibration is absorbed by the rubber cords.

**VARIABLE CAPACITY** Capacity can be tailored to your requirements in 100 lb. increments.

| CAPACITY RANGE      |                    |
|---------------------|--------------------|
| Axle                | Range Capacity     |
| 2,000 lb. Equalizer | 700 - 2,000 lbs.   |
| 3,500 lb. Equalizer | 2,500 - 3,500 lbs. |
| 6,000 lb. Equalizer | 4,500 - 6,000 lbs. |
| 7,000 lb. Equalizer | 6,100 - 7,000 lbs. |
| 8,000 lb. Equalizer | 7,100 - 8,000 lbs. |

**NEAT, CLEAN, FUNCTIONAL** Since the torsion axle mounts directly to the frame, we can provide most any ground-clearance you desire. There are no leaf springs, hangers, u-bolts, etc. to become clogged with mud, snow or ice.

**REDUCED COSTS** With no metal to metal contact, (no springs, bolts, shackle straps), maintenance is minimal. The added strength and support supplied by the torsion axle means less stress on your trailer's frame. The addition of the axle as a cross member eliminates a current cross member resulting in less cost and weight.

**EASY INSTALLATION** Top or side mounting is available. Only 4 bolts are needed to mount.

**SERVICE/DELIVERY** Excellent service, delivery, lead times and freight costs are integral to the success of your business. We provide all of these, giving you the greatest chance for success. With the Equalizer torsion axle we maintain our commitment to stay the most respected trailer axle manufacturer in the industry.

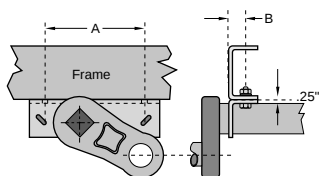
**FIVE YEAR WARRANTY** A five year warranty is standard on the Equalizer beam and suspension components of that beam.



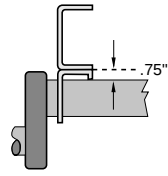
## Mounting Kits and Dimensions

**\*NOTE:** For replacement purposes the mounting bracket has diagonally slotted side mount holes. This is to accommodate a variety of hole patterns in other side mounted torsion axle systems.

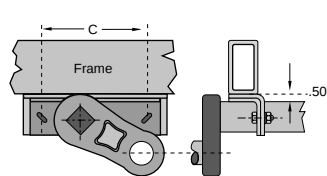
**\*\*NOTE:** Application of heat to the axle tube will damage the rubber and void the warranty.



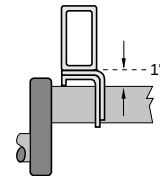
Top Mounting



Top Mounting High Profile



Side Mounting



Side Mounting High Profile

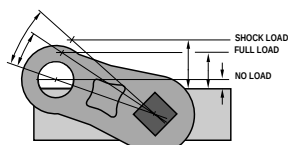
### MOUNTING KITS AND DIMENSIONS

| Axle Capacity | Top Mounted |        |        |           | Side Mounted |        |           |
|---------------|-------------|--------|--------|-----------|--------------|--------|-----------|
|               | Kit Part #  | Dim. A | Dim. B | Bolt Size | Kit Part #   | Dim. C | Bolt Size |
| 2,000 lb.     | 2001-B      | 7.75"  | 1"     | .5"       | 2001-S       | 7.87"  | .5"       |
| 3,500 lb.     | 3501-B      | 8"     | 1.25"  | .625"     | 3501-S       | 8.56"  | .625"     |
| 6,000 lb.     | 3501-B      | 9"     | 1.25"  | .625"     | 6001-S       | 9.3"   | .75"      |
| 7,000 lb.     | 3501-B      | 9"     | 1.25"  | .625"     | 7001-S*      | 10"    | .75"      |
| 8,000 lb.     | 8001-B      | 10.5"  | 1.25"  | .75"      | 8001-S       | 10.5"  | .75"      |

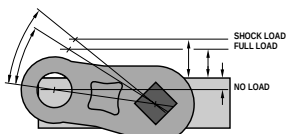
\* 7,000 lb. sidemount high profile use 8001-S

## Trailing Arms

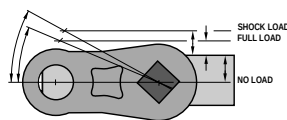
- All measurements are in inches and are calculated from the bottom of the frame.
- A minus sign indicates that the spindle is above the top of the frame.
- Allow an additional 3" above the full load dimensions for fender clearance.
- Add .25" to start angle dimensions for side mounting.
- Add .5" to start angle dimensions for high profile top mounting (except 8K which is standard with high profile).
- Add .75" to start angle dimensions for high profile side mounting.



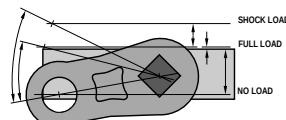
22.5° ABOVE



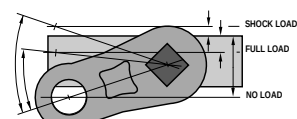
10° ABOVE



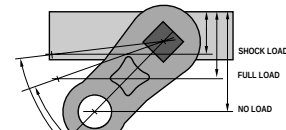
0° LEVEL



10° DOWN



22.5° DOWN



45° DOWN

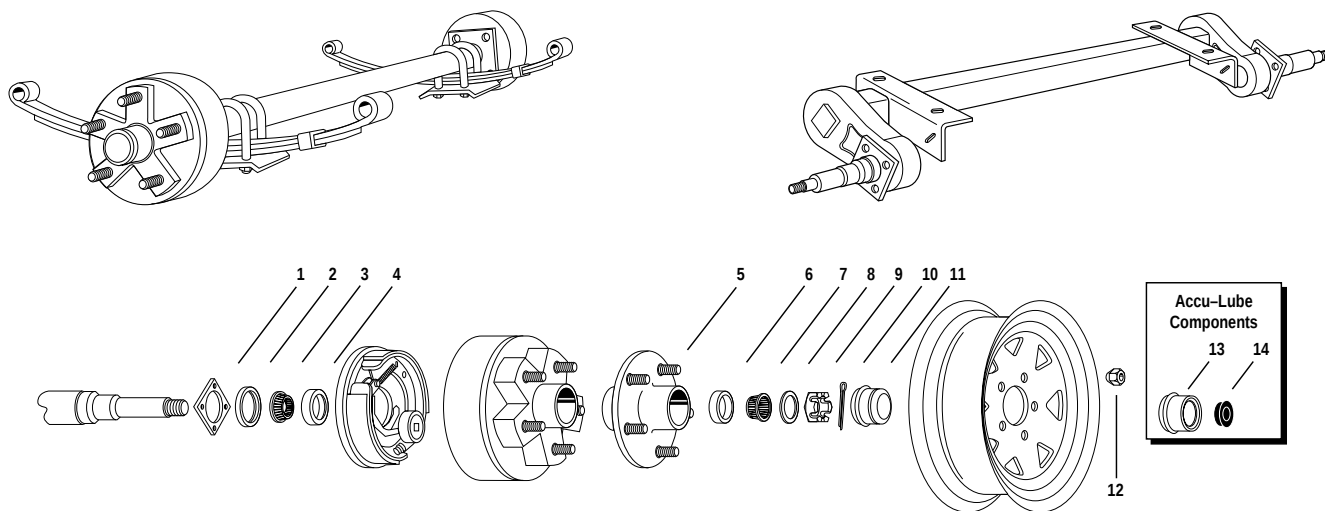
| START ANGLE | POSITION      | AXLE NUMBER    |                |                |                |                |
|-------------|---------------|----------------|----------------|----------------|----------------|----------------|
|             |               | 2,000 lb. Axle | 3,500 lb. Axle | 6,000 lb. Axle | 7,000 lb. Axle | 8,000 lb. Axle |
| 22.5° Above | At no load    | -.75"          | -.56"          | -.28"          | -.06"          | .63"           |
|             | At full load  | -2.75"         | -2.50"         | -2.25"         | -2.00"         | 2.30"          |
|             | At shock load | -3.63"         | -3.43"         | -3.15"         | -2.90"         | 3.20"          |
| 10° Above   | At no load    | .25"           | .44"           | .75"           | .94"           | 1.64"          |
|             | At full load  | -1.94"         | -1.69"         | -1.44"         | -1.19"         | -1.50"         |
|             | At shock load | -3.00"         | -2.75"         | -2.50"         | -2.25"         | -2.56"         |
| 0° Level    | At no load    | 1.25"          | 1.50"          | 1.75"          | 2.00"          | 2.70"          |
|             | At full load  | -1.00"         | -.75"          | -.50"          | -.25"          | -.56"          |
|             | At shock load | -2.19"         | -1.94"         | -1.69"         | -1.44"         | -1.75"         |
| 10° Down    | At no load    | 2.30"          | 2.50"          | 2.80"          | 3.06"          | 4.25"          |
|             | At full load  | 0.00"          | .25"           | .50"           | .75"           | 1.44"          |
|             | At shock load | -1.25"         | -1.06"         | -.75"          | -.50"          | -.81"          |
| 22.5° Down  | At no load    | 3.30"          | 3.50"          | 3.80"          | 4.06"          | 4.75"          |
|             | At full load  | 1.06"          | 1.25"          | 1.56"          | 1.80"          | 2.50"          |
|             | At shock load | -.25"          | -.06"          | .25"           | .44"           | 1.25"          |
| 45° Down    | At no load    | 5.50"          | 5.75"          | 6.00"          | 6.25"          | 6.94"          |
|             | At full load  | 3.60"          | 3.80"          | 4.12"          | 4.30"          | 5.0"           |
|             | At shock load | 2.30"          | 2.50"          | 2.80"          | 3.06"          | 3.75"          |

**NO LOAD** = Position of trailing arm without a load.

**FULL LOAD** = Position of trailing arm at full capacity load.

**SHOCK LOAD** = Position of trailing arm at extreme shock.

# 2K Axle Assemblies



## 2,000 LB. COMPONENT PARTS

| Part #   | Description                           | Diagram # | Part #   | Description                      | Diagram # |
|----------|---------------------------------------|-----------|----------|----------------------------------|-----------|
| 4-29     | Brake flange, 4-hole (optional)       | 1         | L-44649  | Outer bearing, 1.0625" ID (BT16) | 7         |
| 15191VB  | Grease seal, single lip, 1.50" (BT16) | 2         | L-44643  | Outer bearing, 1" ID (BT8)       | —         |
| 15192TB* | Grease seal, double lip, 1.50" (BT16) | —         | 4753     | Spindle washer, 1"               | 8         |
| 12192VB  | Grease seal, single lip, 1.25" (BT8)  | —         | 4754     | Spindle nut, 1" – 14             | 9         |
| 12192TB* | Grease seal, double lip, 1.25" (BT8)  | —         | 4755     | Cotter pin, ⅜" x 2"              | 10        |
| L-44649  | Inner bearing, 1.0625" ID (BT16)      | 3         | 21-3     | Grease cap, 1.98" OD             | 11        |
| L-44643  | Inner bearing, 1" ID (BT8)            | —         | 4756     | Cone wheel nut, ½" – 20 x 60°    | 12        |
| L-44610  | Inner race, 1.98" OD                  | 4         | 21-3-AL* | Grease cap, Accu-Lube 1.98" OD   | 13        |
| 4758-Z   | Wheel stud, ½" – 20 x 1.625" (idler)  | 5         | RP-100*  | Rubber plug, Accu-Lube cap       | 14        |
| L-44610  | Outer race, 1.98" OD                  | 6         |          |                                  |           |

\*Note: for Accu-Lube spindles

## 2,000 LB. HUBS/DRUMS

| Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern | Spindle | Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern | Spindle |
|---------------------|------------------------------|-------------|--------------|---------|---------------------|------------------------------|-------------|--------------|---------|
| 88440               | 88440-1                      | Idler hub   | 4 on 4"      | BT8     | 88545W              | 88545W-1                     | Idler hub   | 5 on 4½"     | BT8     |
| 88440-BT16          | 88440-1                      | Idler hub   | 4 on 4"      | BT16    | 88545W-BT16         | 88545W-1                     | Idler hub   | 5 on 4½"     | BT16    |
| 884425              | 884425-1                     | Idler hub   | 4 on 4½"     | BT8     | 98440               | 98440-1                      | Brake drum  | 4 on 4"      | BT8     |
| 884425-BT16         | 884425-1                     | Idler hub   | 4 on 4½"     | BT16    | 98440-BT16          | 98440-1                      | Brake drum  | 4 on 4"      | BT16    |
| 88545               | 88545-1                      | Idler hub   | 5 on 4½"     | BT8     | 98545               | 98545-1                      | Brake drum  | 5 on 4½"     | BT8     |
| 88545-BT16          | 88545-1                      | Idler hub   | 5 on 4½"     | BT16    | 98545-BT16          | 98545-1                      | Brake drum  | 5 on 4½"     | BT16    |

**Note:** Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups. Complete hubs include the cupped and studded hub, inner & outer bearings, seal, lug nuts and dust cap/grease cap.

Add "AL" to the end of the assembly part number for Acculube components.

## 2,000 LB. BRAKES

| Part # | Description                    | Part # | Description                     |
|--------|--------------------------------|--------|---------------------------------|
| 23-47  | Electric, 7" X 1½", left hand  | 4712-L | Hydraulic, 7" X 1¾", left hand  |
| 23-48  | Electric, 7" X 1½", right hand | 4712-R | Hydraulic, 7" X 1¾", right hand |

**Note:** For brake replacement parts see pages C-2 and C-10.

**Note:** It is not recommended to exceed axle capacity by spring capacity.

# 2K Axle Assemblies

## 2,000 LB. HANGER KITS

| Part # | Description         | Springs    | Part # | Description       | Springs    |
|--------|---------------------|------------|--------|-------------------|------------|
| 4103   | Single axle         | Double eye | 4102   | Tandem axle       | Double eye |
| 4103-L | Single axle, tall   | Double eye | 4102-A | Tandem axle, tall | Double eye |
| 4104   | Single axle         | Slipper    | 4101   | Triple axle       | Double eye |
| 4105   | Single axle, ½" eye | Slipper    | 4101-A | Triple axle, tall | Double eye |

**Note:** For additional hanger kit information see pages B-5 - B-13.

## 2,000 LB. U-BOLT KITS

| Part #  | Description              | Tube Diameter |
|---------|--------------------------|---------------|
| 4205    | Round beam               | 1¾"           |
| 4205-ZP | Round beam, zinc plated  | 1¾"           |
| 4203    | Square beam              | 2"            |
| 4203-ZP | Square beam, zinc plated | 2"            |

## AP (Attaching Parts) KITS FOR EQUALIZERS

| Part # | Top/Side Mount |
|--------|----------------|
| 2001-B | Top mount      |
| 2001-S | Side mount     |

**Note:** Side mount kits include nuts, bolts, washers, and mounting brackets.  
Top mount kits include nuts, bolts and washers only.

## 2,000 LB. LEAF SPRINGS

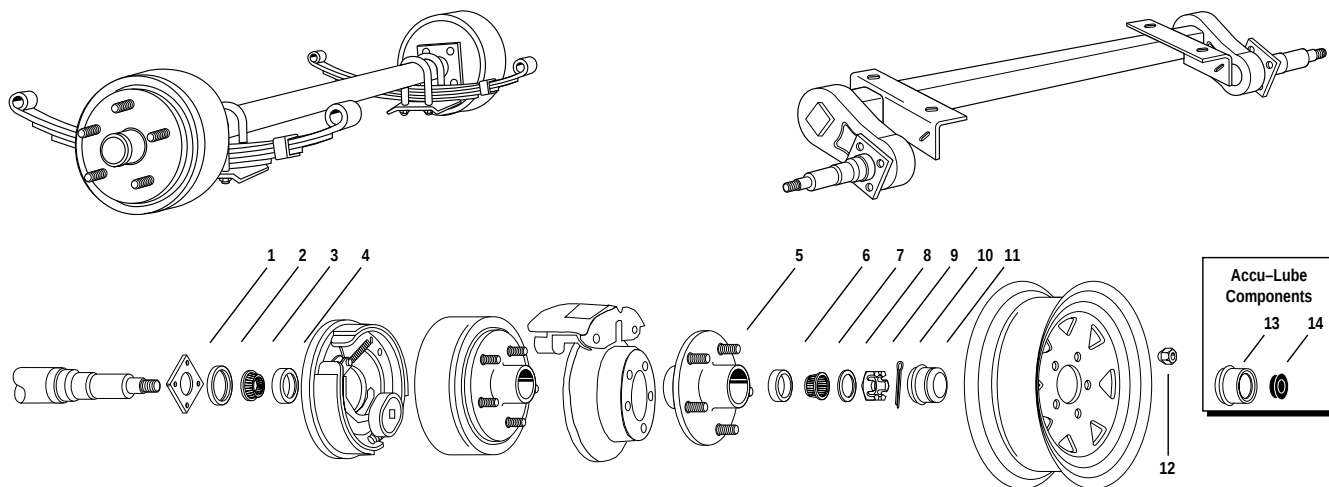
| Part #   | Style      | Length | Capacity   | No. of Leaves | Width |
|----------|------------|--------|------------|---------------|-------|
| 4332-11  | Double eye | 24"    | 1,100 lbs. | 3             | 1¾"   |
| 4332-12  | Double eye | 25¾"   | 1,250 lbs. | 3             | 1¾"   |
| 4332-13  | Double eye | 20"    | 1,300 lbs. | 3             | 1¾"   |
| 4332-13L | Double eye | 23¾"   | 1,300 lbs. | 3             | 1¾"   |
| 4321-5   | Slipper    | 24"    | 500 lbs.   | 2             | 1¾"   |
| 4331-7   | Slipper    | 24"    | 750 lbs.   | 3             | 1¾"   |
| 4341-10  | Slipper    | 24"    | 1,000 lbs. | 4             | 1¾"   |
| 4351-12  | Slipper    | 24"    | 1,250 lbs. | 5             | 1¾"   |

**Note:** For additional spring options see pages B-14 - B-15.

## 2,000 LBS. TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                       | 2K   | 2K EQ | Specifications/ Options                        | 2K   | 2K EQ |
|-----------------------------------------------|------|-------|------------------------------------------------|------|-------|
| <b>Lubrication</b>                            |      |       | <b>Brakes (continued)</b>                      |      |       |
| Grease Lube                                   | Std. | Std.  | Pre-wired axle tubing                          | X    | X     |
| Accu-Lube                                     | X    | X     | <b>Spindles</b>                                |      |       |
| Bearing protectors                            | X    | X     | BT-8 Spindle                                   | X    |       |
| <b>Studs</b>                                  |      |       | BT-16 Spindle                                  | Std. | Std.  |
| ½" Zinc studs                                 | Std. | Std.  | Straight spindle                               | X    |       |
| <b>Bolt Circles</b>                           |      |       | 4" Drop spindle (2" sq. tube only)             | X    |       |
| 4 Bolt on 4" circle                           | X    | X     | 3" Drop spindle (2" sq. tube only)             | X    |       |
| 4 Bolt on 4.25" circle                        | X    | X     | 2" Drop spindle (2" sq. tube only)             | X    |       |
| 5 Bolt on 4.5" circle with 5.75" flange (std) | X    | X     | <b>Axle Materials</b>                          |      |       |
| 5 Bolt on 4.5" circle with 6.25" flange       | X    | X     | Cambered axle tubing                           | X    | Std.  |
| <b>Hubs</b>                                   |      |       | V-Bend Tubing                                  |      | X     |
| Zinc plated hubs                              | X    | X     | Galvanized axle tubing (cold zinc spray welds) | X    |       |
| Galvanized hubs                               | X    | X     | Galvanized axle beam                           | X    | X     |
| <b>Seals</b>                                  |      |       | 1.75" X .1875" Round tube                      | Std. |       |
| Single lip seal                               | Std. | Std.  | 2.173" X .149" Round corner square tube        |      | Std.  |
| Double lip seal (standard with Accu-Lube)     | X    | X     | 2" X .25" Round corner square tube             | X    |       |
| <b>Brakes</b>                                 |      |       | <b>Attachments</b>                             |      |       |
| Electric brake                                | X    | X     | High mount brackets +2"                        |      | X     |
| Hydraulic brake, Uni-Servo                    | X    | X     | High mount brackets +3"                        |      | X     |
| Brake flange on idler axle                    | X    | Std.  | <i>Std. = Standard X = Optional</i>            |      |       |

# 3.5K Axle Assemblies



## 3,500 LB. COMPONENT PARTS

| Part #    | Description                     | Diagram # | Part #   | Description                    | Diagram # |
|-----------|---------------------------------|-----------|----------|--------------------------------|-----------|
| 4-12      | Brake flange, 4-hole            | 1         | L-44649  | Outer bearing, 1.0625" ID      | 7         |
| 171255VB  | Grease seal, single lip, 1.719" | 2         | 4753     | Spindle washer, 1"             | 8         |
| 171255TB  | Grease seal, double lip, 1.719" | —         | 4754     | Spindle nut, 1" – 14           | 9         |
| L-68149   | Inner bearing, 1.375" ID        | 3         | 4755     | Cotter pin, ½" x 2"            | 10        |
| L-68111   | Inner race, 2.362" OD           | 4         | 21-3     | Grease cap, 7.98" OD           | 11        |
| 4759-Z    | Wheel stud, ½" – 20 x 1.8125"   | 5         | 4756     | Cone wheel nut, ½" – 20 x 60°  | 12        |
| 4759-20-Z | Wheel stud, ½" – 20 x 2"        | —         | 21-3-AL* | Grease cap, Accu-Lube 1.98" OD | 13        |
| L-44610   | Outer race, 1.98" OD            | 6         | RP-100*  | Rubber plug, Accu-Lube cap     | 14        |

\*Note: for Accu-Lube spindles

## 3,500 LB. HUBS/DRUMS

| Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern | Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern |
|---------------------|------------------------------|-------------|--------------|---------------------|------------------------------|-------------|--------------|
| 84545               | 84545-1                      | Idler hub   | 5 on 4½"     | 94545               | 94545-1                      | Brake drum  | 5 on 4½"     |
| 845475              | 845475-1                     | Idler hub   | 5 on 4¾"     | 945475              | 945475-1                     | Brake drum  | 5 on 4¾"     |
| 84550               | 84550-1                      | Idler hub   | 5 on 5"      | 94550               | 94550-1                      | Brake drum  | 5 on 5"      |
| 84555               | 84555-1                      | Idler hub   | 5 on 5½"     | 94555               | 94555-1                      | Brake drum  | 5 on 5½"     |
| 84655               | 84655-1                      | Idler hub   | 6 on 5½"     | 94655               | 94655-1                      | Brake drum  | 6 on 5½"     |

**Note:** Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups. Complete hubs include the cupped and studded hub, inner & outer bearings, seal, lug nuts and dust cap/grease cap.

Add "AL" to complete assembly part numbers for Acculube components.

## 3,500 LB. BRAKES

| Part # | Description                                  | Part #      | Description                                          |
|--------|----------------------------------------------|-------------|------------------------------------------------------|
| 4701-L | Electric, 10" X 2¼", left hand               | 44453       | Hydraulic premier, 10" X 2¼", right hand             |
| 4701-R | Electric, 10" X 2¼", right hand              | 44235       | Hydraulic freebacking premier, 10" X 2¼", left hand  |
| 4710-L | Hydraulic, 10" X 2¼", left hand              | 44234       | Hydraulic freebacking premier, 10" X 2¼", right hand |
| 4710-R | Hydraulic, 10" X 2¼", right hand             | 2/RCM-10    | Hydraulic disc, 10", pair                            |
| 40716  | Hydraulic freebacking, 10" X 2¼", left hand  | 2/RCM10-E   | Hydraulic disc, 10", E-coat, pair                    |
| 40715  | Hydraulic freebacking, 10" X 2¼", right hand | 2/RCM-10-SB | Hydraulic disc, 10", bronze, pair                    |
| 44454  | Hydraulic premier, 10" X 2¼", left hand      |             |                                                      |

**Note:** For brake replacement parts see pages C-3, C-11 thru C-12 and C-19.

**Note:** It is not recommended to exceed axle capacity by spring capacity.

# 3.5K Axle Assemblies

## 3,500 LB. HANGER KITS

| Part # | Description         | Springs    | Part # | Description       | Springs    |
|--------|---------------------|------------|--------|-------------------|------------|
| 4103   | Single axle         | Double eye | 4102   | Tandem axle       | Double eye |
| 4103-L | Single axle, tall   | Double eye | 4102-A | Tandem axle, tall | Double eye |
| 4104   | Single axle         | Slipper    | 4101   | Triple axle       | Double eye |
| 4105   | Single axle, ½" eye | Slipper    | 4101-A | Triple axle, tall | Double eye |

**Note:** For hanger kit information see pages B-5 thru B-13.

## 3,500 LB. LEAF SPRINGS

| Part #  | Style      | Length | Capacity   | No. of Leaves | Width |
|---------|------------|--------|------------|---------------|-------|
| 4342-16 | Double eye | 26"    | 1,600 lbs. | 4             | 1¾"   |
| 4342-17 | Double eye | 25½"   | 1,750 lbs. | 4             | 1¾"   |
| 4332-18 | Double eye | 25½"   | 1,850 lbs. | 3             | 1¾"   |
| 4341-17 | Slipper    | 29"    | 1,750 lbs. | 5             | 1¾"   |
| 4351-23 | Slipper    | 24"    | 2,300 lbs. | 4             | 1¾"   |

**Note:** For spring leaf options see pages B-14 thru B-15.

## 3,500 LB. U-BOLT KITS

| Part #   | Description                   | Tube Diameter |
|----------|-------------------------------|---------------|
| 4202     | Round beam                    | 2½"           |
| 4202-ZP  | Round beam, zinc plated       | 2½"           |
| 4201     | Round beam                    | 3"            |
| 4201-ZP  | Round beam, zinc plated       | 3"            |
| 4203     | Square beam                   | 2"            |
| 4203-ZP  | Square beam, zinc plated      | 2"            |
| 4290-L   | Square beam                   | 2½"           |
| 4203-L   | Rectangular beam              | 2" x 3"       |
| 4203-LZP | Rectangular beam, zinc plated | 2" x 3"       |

## AP (Attaching Parts) KITS FOR EQUALIZERS

| Part # | Top/Side Mount |
|--------|----------------|
| 3501-B | Top mount      |
| 3501-S | Side mount     |

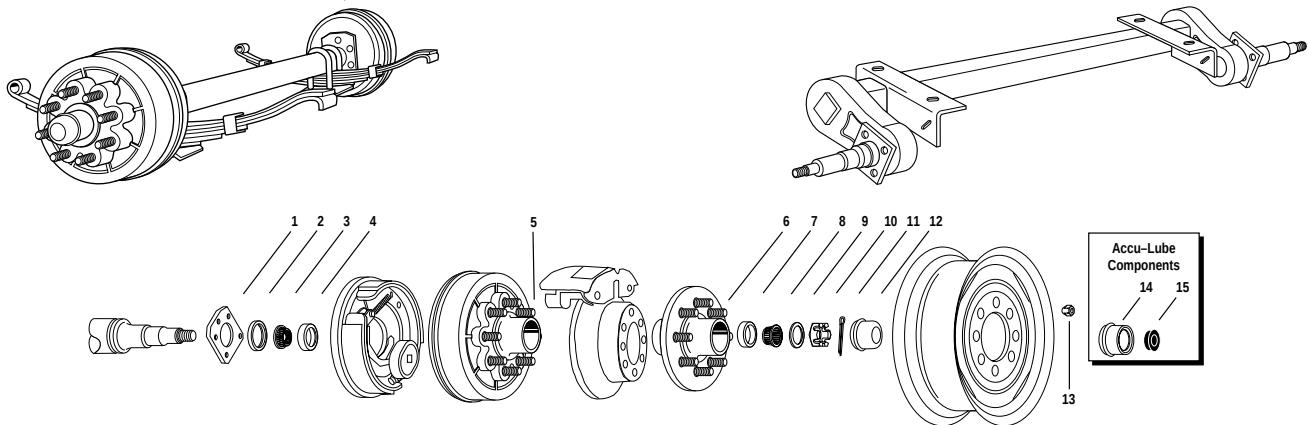
**Note:** Side mount kits include nuts, bolts, washers, and mounting brackets.  
Top mount kits include nuts, bolts and washers only.

## 3,500 LBS. TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                         | 3.5K | 3.5K EQ | Specifications/ Options                            | 3.5K | 3.5K EQ |
|-------------------------------------------------|------|---------|----------------------------------------------------|------|---------|
| <b>Lubrication</b>                              |      |         | <b>Brakes (continued)</b>                          |      |         |
| Grease Lube                                     | Std. | Std.    | Hydraulic Disc brake                               | X    | X       |
| Accu-Lube                                       | X    | X       | Hydraulic Disc brake, E-Coat                       | X    | X       |
| Bearing protectors                              | X    | X       | Hydraulic Disc brake, Bronze                       | X    | X       |
| <b>Studs</b>                                    |      |         | Brake flange on idler axle                         | Std. | Std.    |
| ½" Zinc studs                                   | Std. | Std.    | Pre-wired axle tubing                              | X    | X       |
| ½" X 2" Zinc studs (standard with disc brakes)  | X    | X       | Brake wire protectors                              | X    | X       |
| <b>Bolt Circles</b>                             |      |         | Long magnet lead wires                             | X    | X       |
| 5 Bolt on 4.5" circle with 5 ¾" flange          | X    | X       | <b>Spindles</b>                                    |      |         |
| 5 Bolt on 4.5" circle with 6 ½" flange (std)    | X    | X       | #84 Spindle                                        | Std. | Std.    |
| 5 Bolt on 4.75" circle                          | X    | X       | Straight spindle                                   | X    |         |
| 5 Bolt on 5" circle                             | X    | X       | 4" Drop spindle                                    | X    |         |
| 5 Bolt on 5.5" circle                           | X    | X       | 3" Drop spindle (2" sq. & 2" x 3" rect. tube only) | X    |         |
| 6 Bolt on 5.5" circle                           | X    | X       | 2" Drop spindle (2" sq. & 2" x 3" rect. tube only) | X    |         |
| <b>Hubs</b>                                     |      |         | <b>Axle Materials</b>                              |      |         |
| Zinc plated hubs                                | X    | X       | Cambered axle tubing                               | X    | Std.    |
| Zinc plated hub and drums                       | X    | X       | V-Bend Tubing                                      |      | X       |
| Galvanized hubs                                 | X    | X       | Galvanized axle tubing                             | X    | X       |
| <b>Seals</b>                                    |      |         | Galvanized axle beam                               | X    | X       |
| Single lip seal                                 | Std. | Std.    | 2.375" X .1875" Round tube                         | Std. |         |
| Double lip seal (standard with Accu-Lube)       | X    | X       | 3" X .1875" Round tube                             | X    |         |
| Stainless steel spindle wear sleeve             | X    | X       | 2.625" X .187" Round corner square tube            |      | Std.    |
| <b>Brakes</b>                                   |      |         | 2" X .25" Round corner square tube                 | X    |         |
| Electric brake                                  | X    | X       | 2.5" X .25" Round corner square tube               | X    |         |
| Hydraulic brake, Uni-Servo                      | X    | X       | 2" X 2" X .25" Round corner rectangular tube       | X    |         |
| Hydraulic brake, Uni-Servo with parking feature | X    | X       | <b>Attachments</b>                                 |      |         |
| Hydraulic brake, Free Backing                   | X    | X       | High mount brackets +.5"                           |      | X       |
| Hydraulic brake, Uni-Servo Premier              | X    | X       | High mount brackets +.2"                           |      | X       |
| Hydraulic brake, Free Backing Premier           | X    | X       | High mount brackets +.3"                           |      | X       |

Std. = Standard X = Optional

# 5.2, 6 & 7K Axle Assemblies



## 5,200, 6,000 AND 7,000 LB. COMPONENT PARTS

| Part #    | Description                      | Diagram # | Part #   | Description                      | Diagram # |
|-----------|----------------------------------|-----------|----------|----------------------------------|-----------|
| 4-6T      | Brake flange, 5-hole             | 1         | 14125A   | Outer bearing, 1.25" ID (8 bolt) | —         |
| 22333VB   | Grease seal, single lip, 2.25"   | 2         | 4753     | Spindle washer, 1"               | 9         |
| 22333TBN  | Grease seal, double lip, 2.25"   | —         | 4754     | Spindle nut, 1" – 14             | 10        |
| 25580     | Inner bearing, 1.75" ID          | 3         | 4755     | Cotter pin, ⅝" x 2"              | 11        |
| 25520     | Inner race, 3.625" OD            | 4         | 21-1     | Grease cap, 2.44" OD (6 bolt)    | 12        |
| 4759-25-Z | Wheel stud, ½" – 20 x 2.5"       | 5         | 1605     | Grease cap, 2.717" OD (8 bolt)   | —         |
| 4759-Z    | Wheel stud, ½" – 20 x 1.8125"    | 6         | 4756     | Cone wheel nut, ½" – 20 x 60°    | 13        |
| 15245     | Outer race, 2.441" OD (6 bolt)   | 7         | 21-1-AL* | Grease cap, Accu-Lube 2.44" OD   | 14        |
| 14276     | Outer race, 2.717" OD (8 bolt)   | —         | 1605-AL* | Grease cap, Accu-Lube 2.717" OD  | —         |
| 15123     | Outer bearing, 1.25" ID (6 bolt) | 8         | RP-100*  | Rubber plug, Accu-Lube cap       | 15        |

\*Note: for Accu-Lube spindles

## 5,200, 6,000 AND 7,000 LB. HUBS/DRUMS

| Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern | Complete Hub Part #             | Hub, Cupped & Studded Part # | Description | Bolt Pattern |
|---------------------|------------------------------|-------------|--------------|---------------------------------|------------------------------|-------------|--------------|
| 82655               | 82655-1                      | Idler hub   | 6 on 5½"     | 92865A                          | 92865A-1                     | Brake drum  | 8 on 6½"     |
| 82660               | 82660-1                      | Idler hub   | 6 on 6"      | 92865A-OB*                      | 92865A-1OB                   | Brake drum  | 8 on 6½"     |
| 82865A              | 82865A-1                     | Idler hub   | 8 on 6½"     | 9286T-OB**                      | 9286T-1OB                    | Brake drum  | 8 on 6½"     |
| 92655               | 92655-1                      | Brake drum  | 6 on 5½"     | *Oil bath **Oil bath / ⅝" studs |                              |             |              |

**Note:** Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups. Complete hubs include the cupped and studded hub, inner & outer bearings, seal, lug nuts and dust cap/grease cap.

Add "AL" to complete assembly part numbers for Acculube components.

## 5,200, 6,000 AND 7,000 LB. BRAKES

| Part # | Description                                  | Part #      | Description                                          |
|--------|----------------------------------------------|-------------|------------------------------------------------------|
| 4704-L | Electric, 12" X 2¼", left hand               | 44896       | Hydraulic freebacking premier, 12" X 2¼", left hand  |
| 4704-R | Electric, 12" X 2¼", right hand              | 44895       | Hydraulic freebacking premier, 12" X 2¼", right hand |
| 4711-L | Hydraulic, 12" X 2¼", left hand              | 2/RCM-12    | Hydraulic disc, 12", pair (6 bolt)                   |
| 4711-R | Hydraulic, 12" X 2¼", right hand             | 2/RCM-12E   | Hydraulic disc, 12", E-coat, pair (6 bolt)           |
| 42029  | Hydraulic freebacking, 12" X 2¼", left hand  | 2/RCM-12-SB | Hydraulic disc, 12", bronze, pair (6 bolt)           |
| 42028  | Hydraulic freebacking, 12" X 2¼", right hand | 2/RCM-13    | Hydraulic disc, 13", pair (8 bolt)                   |
| 44984  | Hydraulic premier, 12" X 2¼", left hand      | 2/RCM-13E   | Hydraulic disc, 13", E-coat, pair (8 bolt)           |
| 44983  | Hydraulic premier, 12" X 2¼", right hand     |             |                                                      |

**Note:** For brake replacement parts see pages C-4, C-13 thru C-14 and C-19.

**Note:** It is not recommended to exceed axle capacity by spring capacity.

# 5.2, 6 & 7K Axle Assemblies

## 5,200, 6,000 AND 7,000 LB. HANGER KITS

| Part # | Description       | Springs    | Part # | Description       | Springs    |
|--------|-------------------|------------|--------|-------------------|------------|
| 4103-L | Single axle, tall | Double eye | 4114-H | Tandem axle       | Slipper    |
| 4115-H | Single axle       | Slipper    | 4101   | Triple axle       | Double eye |
| 4102   | Tandem axle       | Double eye | 4101-A | Triple axle, tall | Double eye |
| 4102-A | Tandem axle, tall | Double eye | 4113-H | Triple axle       | Slipper    |

Note: For hanger kit information see pages B-5 thru B-13.

## AP (Attaching Parts) KITS FOR EQUALIZERS

| Part # | Top/Side Mount                            |
|--------|-------------------------------------------|
| 3501-B | Top mount                                 |
| 6001-S | Side mount                                |
| 7001-S | Side mount                                |
| 8001-S | Side mount for 7K high profile side mount |

Note: Side mount kits include nuts, bolts, washers, and mounting brackets.  
Top mount kits include nuts, bolts and washers only.

## 5,200, 6,000 AND 7,000 LB. U-BOLT KITS

| Part #   | Description                         | Tube Diameter |
|----------|-------------------------------------|---------------|
| 4201     | Round beam                          | 3"            |
| 4201-ZP  | Round beam, zinc plated             | 3"            |
| 4290-L   | Square beam                         | 2.5"          |
| 4203-L   | Rectangular beam                    | 2" x 3"       |
| 4203-LZP | Rectangular beam, zinc plated, long | 2" x 3"       |

## 5,200, 6,000 AND 7,000 LB. LEAF SPRINGS

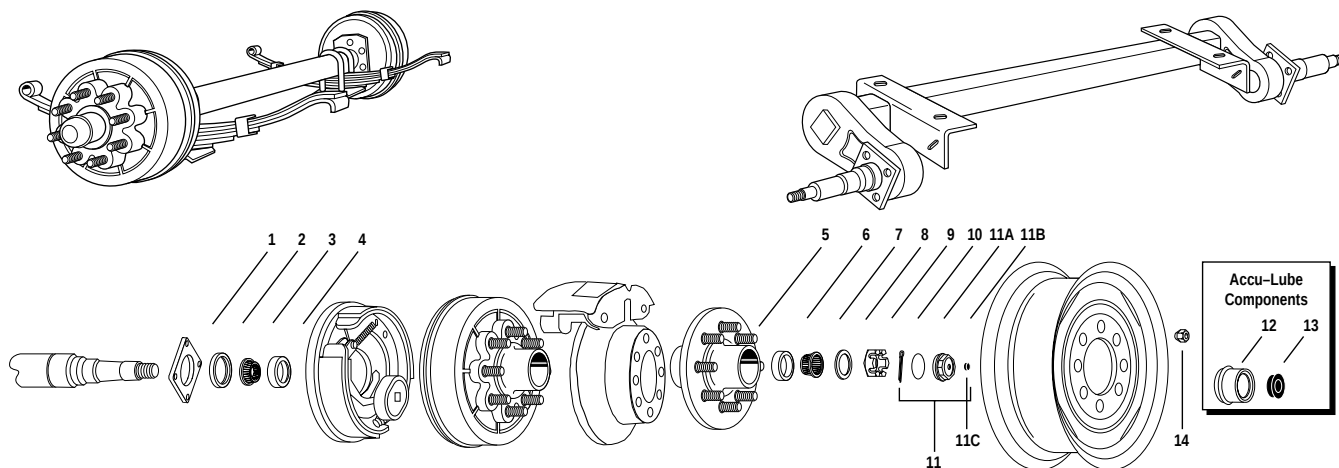
| Part #  | Style      | Length | Capacity   | No. of Leaves | Width | Part #  | Style      | Length  | Capacity   | No. of Leaves | Width |
|---------|------------|--------|------------|---------------|-------|---------|------------|---------|------------|---------------|-------|
| 4352-29 | Double eye | 25.25" | 2,900 lbs. | 5             | 1.75" | 4362-33 | Double eye | 25.25"  | 3,300 lbs. | 6             | 1.75" |
| 4342-30 | Double eye | 26"    | 3,000 lbs. | 4             | 1.75" | 1003T3  | Slipper    | 26.125" | 2,500 lbs. | 4             | 2"    |
| 4362-30 | Double eye | 27"    | 3,000 lbs. | 6             | 1.75" | 4351-30 | Slipper    | 27"     | 3,000 lbs. | 5             | 2"    |
| 4382-30 | Double eye | 26"    | 3,000 lbs. | 8             | 1.75" | 1203T3  | Slipper    | 26.125" | 3,500 lbs. | 5             | 2"    |

Note: For leaf spring options see pages B-14 thru B-15.

## 5.2K, 6K & 7K LBS. TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                         | 5.2K | 6K   | 7K   | 6K EQ | 7K EQ | Specifications/ Options                                      | 5.2K | 6K   | 7K   | 6K EQ | 7K EQ |
|-------------------------------------------------|------|------|------|-------|-------|--------------------------------------------------------------|------|------|------|-------|-------|
| <b>Lubrication</b>                              |      |      |      |       |       | <b>Brakes (continued)</b>                                    |      |      |      |       |       |
| Grease Lube                                     |      | Std. | Std. | Std.  | Std.  | Hydraulic disc brake                                         | X    | X    | X    | X     | X     |
| Accu-Lube                                       | X    | X    | X    | X     | X     | Hydraulic Disc brake, E-Coat                                 | X    | X    | X    | X     | X     |
| Bearing protectors                              | X    | X    | X    | X     | X     | Hydraulic Disc brake, Bronze (6 bolt only)                   | X    | X    |      | X     |       |
| Oil bath lube                                   |      | X    | X    | X     | X     | ABS Sensors (8 bolt disc only)                               |      | X    | X    | X     | X     |
| <b>Studs</b>                                    |      |      |      |       |       | Brake flange on idler axle                                   | Std. | Std. | Std. | Std.  | Std.  |
| ½" Zinc studs                                   |      | Std. | Std. | Std.  | Std.  | Pre-wired axle tubing                                        | X    | X    | X    | X     | X     |
| ½" X 2" Zinc studs (standard with disc brakes)  | X    | X    | X    | X     | X     | Brake wire protectors                                        | X    | X    | X    | X     | X     |
| ¾" Zinc studs                                   |      | X    | X    | X     | X     | Long magnet lead wires                                       | X    | X    | X    | X     | X     |
| <b>Bolt Circles</b>                             |      |      |      |       |       | <b>Spindles</b>                                              |      |      |      |       |       |
| 6 Bolt on 5.5" circle                           | Std. | X    |      | X     |       | #42 Spindle                                                  | Std. | Std. | Std. | Std.  | Std.  |
| 6 Bolt on 6" circle (Idler only)                | X    | X    | X    | X     | X     | Straight Spindle                                             | X    | X    | X    |       |       |
| 8 Bolt on 6.5" circle                           |      | Std. | Std. | Std.  | Std.  | 4" Drop spindle                                              | X    | X    | X    |       |       |
| <b>Hubs</b>                                     |      |      |      |       |       | 3" Drop spindle (2" sq., 2.5" sq. & 2" x 3" rect. tube only) | X    |      |      |       |       |
| Zinc plated hubs                                | X    | X    | X    | X     | X     | 2" Drop spindle (2" sq., 2.5" sq. & 2" x 3" rect. tube only) | X    |      |      |       |       |
| Zinc plated hub and drums                       | X    | X    | X    | X     | X     | <b>Axle Materials</b>                                        |      |      |      |       |       |
| <b>Seals</b>                                    |      |      |      |       |       | Cambered axle tubing                                         | X    | X    | X    | Std.  | Std.  |
| Single lip seal                                 | Std. | Std. | Std. | Std.  | Std.  | V-bend tubing                                                |      |      |      | X     |       |
| Double lip seal (standard with Accu-Lube)       | X    | X    | X    | X     | X     | Galvanized axle tubing (cold zinc spray welds)               | X    |      |      |       |       |
| Unitized seal                                   |      | X    | X    | X     | X     | Galvanized axle beam                                         | X    | X    | X    | X     | X     |
| Stainless steel spindle seal sleeve             | X    | X    | X    | X     | X     | 3" X .1875" Round tube                                       | Std. | Std. |      |       |       |
| <b>Brakes</b>                                   |      |      |      |       |       | 3" X .25" Round tube                                         |      | X    | Std. |       |       |
| Electric brake                                  | X    | X    | X    | X     | X     | 2.5" X .25" Round corner square tube                         | X    | X    |      |       |       |
| Hydraulic brake, Duo-Servo                      | X    | X    | X    |       |       | 3.031" X .203" Round corner square tube                      |      |      |      | Std.  |       |
| Hydraulic brake, Uni-Servo                      | X    | X    | X    | X     | X     | 3.50" X .25" Round corner square tube                        |      |      |      |       | Std.  |
| Hydraulic brake, Uni-Servo with parking feature | X    | X    | X    | X     | X     | 2" X 3" X .25" Round corner rectangular tube                 | X    | X    |      |       |       |
| Hydraulic brake, Free Backing                   | X    | X    | X    | X     | X     | <b>Attachments</b>                                           |      |      |      |       |       |
| Hydraulic brake, Uni-Servo Premier              | X    | X    | X    | X     | X     | High mount brackets +.5"                                     |      |      |      | X     | X     |
| Hydraulic brake, Free Backing Premier           | X    | X    | X    | X     | X     | Std. = Standard X = Optional                                 |      |      |      |       |       |

# 8K Axle Assemblies



## 8,000 LB. COMPONENT PARTS

| Part #   | Description                               | Diagram # | Part #   | Description                                 | Diagram # |
|----------|-------------------------------------------|-----------|----------|---------------------------------------------|-----------|
| 4-50     | Brake flange, 4-hole                      | 1         | 22-03    | Oil cap, complete assembly (Dexter)         | 11        |
| 370219A  | Oil seal, unitized, 2.25"                 | 2         | 801      | Oil cap, 2.875" - 8 (QRG)                   | 11B       |
| 22333TBN | Grease seal, double lip, 2.25"            | —         | 21-35    | Oil cap, 2.875" - 14 (Dexter)               | 11B       |
| 25580    | Inner bearing, 1.75" ID                   | 3         | 802      | "O" ring (QRG)                              | 11A       |
| 25520    | Inner race, 3.625" OD                     | 4         | 10-45    | "O" ring (Dexter)                           | 11A       |
| 4759-28  | Wheel stud, $\frac{9}{16}$ " - 18 x 3"    | 5         | 568223   | Oil cap plug (QRG)                          | 11C       |
| 4759-30  | Wheel stud, $\frac{9}{16}$ " - 18 x 3.25" | —         | RP-200   | Oil cap plug (Dexter)                       | 11C       |
| 02420    | Outer race, 2.688" OD                     | 6         | 1605-AL* | Grease cap, Accu-Lube 2.717" OD             | 12        |
| 02475    | Outer bearing, 1.25" ID                   | 7         | RP-100*  | Rubber plug, Accu-Lube cap                  | 13        |
| 4753     | Spindle washer, 1"                        | 8         | 4756-1   | Cone wheel nut, $\frac{9}{16}$ " - 18 x 60° | 14        |
| 4754     | Spindle nut, 1" - 14                      | 9         | 4756-2   | Cone wheel nut, $\frac{9}{16}$ " - 18 x 90° | —         |
| 4755     | Cotter pin, $\frac{1}{8}$ " x 2"          | 10        | X1048    | Cone wheel nut, $\frac{9}{16}$ " - 18 x 90° | —         |
| 8001     | Oil cap, complete assembly (QRG)          | 11        |          |                                             |           |

\*Note: for Accu-Lube spindles

## 8,000 LB. HUBS/DRUMS

| Complete Hub Part # | Hub, Cupped & Studded Part # | Description | Bolt Pattern | Complete Hub Part #                                                                                                                                                   | Hub, Cupped & Studded Part # | Description | Bolt Pattern |
|---------------------|------------------------------|-------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|--------------|
| 80865*              | 80865-1*                     | Idler hub   | 8 on 6½"     | 8-285-92***                                                                                                                                                           | 8-285-09***                  | Brake drum  | 8 on 6½"     |
| 90865*              | 90865-1*                     | Brake drum  | 8 on 6½"     | 8-285-90****                                                                                                                                                          | 8-285-10****                 | Brake drum  | 8 on 6½"     |
| 9086L**             | 9086L-1**                    | Brake drum  | 8 on 6½"     | * $\frac{9}{16}$ " - 18 studs ** $\frac{9}{16}$ " - 18 studs *** Fits Dexter brakes, $\frac{9}{16}$ " - 18 studs **** Fits Dexter brakes, $\frac{9}{16}$ " - 18 studs |                              |             |              |

Note: Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups. Complete hubs include the cupped and studded hub, inner & outer bearings, seal, lug nuts and dust cap/grease cap.

## 8,000 LB. BRAKES

| Part #  | Description                              | Part #      | Description                              |
|---------|------------------------------------------|-------------|------------------------------------------|
| 1301-13 | Electric, 12¼" X 3½", left hand, Warner  | 23-138**    | Hydraulic, 12¼" X 3½", left hand, Dexter |
| 1301-12 | Electric, 12¼" X 3½", right hand, Warner | 23-139**    | Hydraulic, 12¼" X 3½", left hand, Dexter |
| 23-97*  | Electric, 12¼" X 3½", left hand, Dexter  | 2/RCM-133   | Hydraulic disc, 13.3", pair              |
| 23-98*  | Electric, 12¼" X 3½", right hand, Dexter | 2/RCM-133-E | Hydraulic disc, 13.3", pair, E-coat      |

Note: Does not include dust cover.

Hydraulic disc with  $\frac{9}{16}$ " stud only.

\* Uses 36-53-3 dust cover for electric \*\* Uses 36-35 dust cover for hydraulic

Note: It is not recommended to exceed axle capacity by spring capacity.

# 8K Axle Assemblies

## 8,000 LB. HANGER KITS

| Part # | Description | Springs |
|--------|-------------|---------|
| 4115-H | Single axle | Slipper |
| 4114-H | Tandem axle | Slipper |
| 4113-H | Triple axle | Slipper |

**Note:** For hanger kit information see pages B-5 thru B-13.

## AP (Attaching Parts) KITS FOR EQUALIZERS

| Part # | Top/Side Mount |
|--------|----------------|
| 8001-B | Top mount      |
| 8001-S | Side mount     |

**Note:** Side mount kits include nuts, bolts, washers, and mounting brackets.  
Top mount kits include nuts, bolts and washers only.

## 8,000 LB. LEAF SPRINGS

| Part #  | Style   | Length  | Capacity   | No. of Leaves | Width |
|---------|---------|---------|------------|---------------|-------|
| 1403T3  | Slipper | 26.125" | 4,000 lbs. | 6             | 2"    |
| 4361-40 | Slipper | 29"     | 4,000 lbs. | 6             | 2"    |
| 4361-45 | Slipper | 30"     | 4,500 lbs. | 6             | 2"    |

**Note:** For leaf spring options see page B-15.

## 8,000 LB. U-BOLT KITS

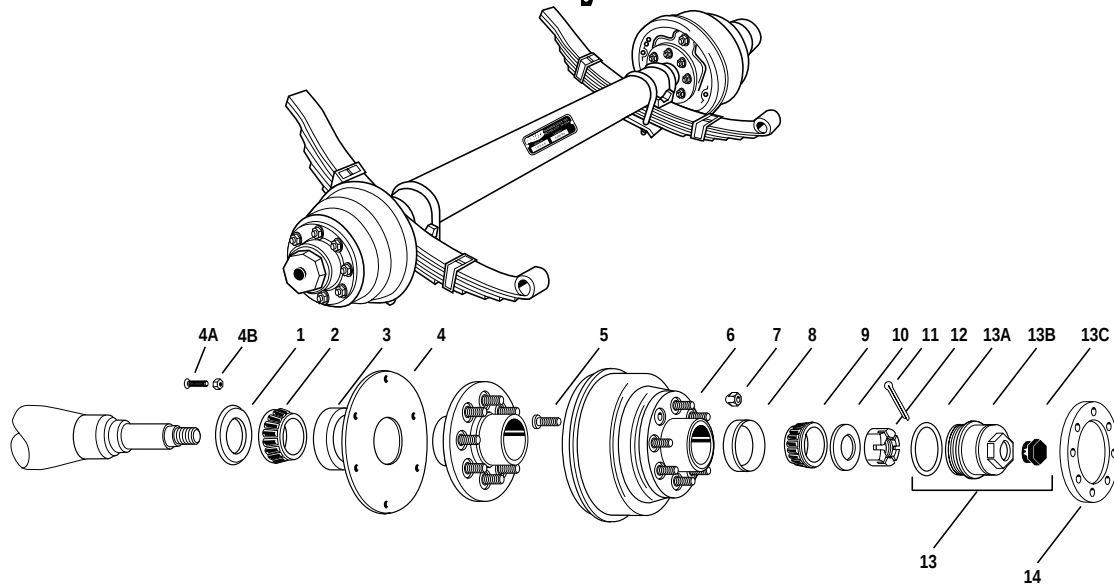
| Part # | Description | Tube Diameter |
|--------|-------------|---------------|
| 4200   | Round beam  | 3½"           |

## 8,000 LBS. TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                   | 8K   | 8K EQ | Specifications/ Options                | 8K   | 8K EQ |
|-------------------------------------------|------|-------|----------------------------------------|------|-------|
| <b>Lubrication</b>                        |      |       | <b>Brakes</b>                          |      |       |
| Grease Lube                               | X    | X     | Hydraulic disc brake, E-coat           | X    | X     |
| Accu-Lube                                 | X    | X     | ABS sensors (disc only)                | X    | X     |
| Bearing protectors                        | X    | X     | Brake flange on idler axle             | Std. | Std.  |
| Oil bath lube                             | Std. | Std.  | Prewired axle tubing                   | X    | X     |
| <b>Studs</b>                              |      |       | <b>Spindles</b>                        |      |       |
| ⅝" Studs                                  | Std. | Std.  | #42 spindle                            | Std. | Std.  |
| ⅜" Studs                                  | X    | X     | Straight spindle                       | X    |       |
| <b>Bolt Circles</b>                       |      |       | 4" Drop spindle                        | X    |       |
| 8 Bolt on 6.5" circle                     | Std. | Std.  | <b>Axle Materials</b>                  |      |       |
| <b>Seals</b>                              |      |       | Cambered axle tubing                   | X    | Std.  |
| Double lip seal (standard with Accu-Lube) | X    | X     | Galvanized axle beam                   | X    | X     |
| Unitized seal                             | Std. | Std.  | 3.5" x .25" Round tube                 | Std. |       |
| <b>Brakes</b>                             |      |       | 3.875" x .25" Round corner square tube |      | Std.  |
| Electric brake                            | X    | X     | <b>Attachments</b>                     |      |       |
| Hydraulic brake, Duo-Servo                | X    | X     | High mount brackets +.5"               |      | Std.  |
| Hydraulic disc brake                      | X    | X     | <i>Std. = Standard X = Optional</i>    |      |       |

# FAST • FRIENDLY • FLEXIBLE

# 9K & 10K Gen. Duty Axle Assemblies



## 9,000 LB. AND 10,000 LB. GENERAL DUTY COMPONENT PARTS

| Part #  | Description                           | Diagram # | Part #  | Description                         | Diagram # |
|---------|---------------------------------------|-----------|---------|-------------------------------------|-----------|
| CR27438 | Oil seal, unitized, 2.75"             | 1         | 25580-T | Outer bearing, Timken 2" ID         | 9         |
| 28580-T | Inner bearing, Timken 2" ID           | 2         | 4798    | Spindle washer, 1.5"                | 10        |
| 28521-T | Inner race, Timken 2.875" OD          | 3         | CP-3    | Cotter pin, 1/4" x 3"               | 11        |
| 1301-9  | ♦ Armature plate                      | 4         | 4797    | Spindle nut, 1 1/2" - 12            | 12        |
| FL14201 | ♦ Flat head bolt, 1/4" - 20           | 4A        | 12011-1 | Oil cap, complete assembly          | 13        |
| 14LN    | ♦ Lock nut, 1/4" - 20                 | 4B        | N70238  | "O" ring                            | 13A       |
| 363910  | Wheel stud, 5/8" - 18 x 2.75" (idler) | 5         | 12011   | Oil cap, 3.75" - 8                  | 13B       |
| 4759-30 | Wheel stud, 5/8" - 18 x 3.25"         | 6         | RP-200  | Oil cap plug                        | 13C       |
| X1048   | Cone wheel nut, 5/8" - 20 x 90°       | 7         | 72-2140 | Tension ring, 8 on 6.5" bolt circle | 14        |
| 25520-T | Outer race, Timken 3.265" OD          | 8         |         |                                     |           |

**Note:** ♦ For electric brake only

## 9,000 LB. AND 10,000 LB. GENERAL DUTY HUBS/DRUMS

| Complete Hub Part # | Hub, Cupped & Studded Part # | Description         | Complete Hub Part # | Hub, Cupped & Studded Part # | Description                               |
|---------------------|------------------------------|---------------------|---------------------|------------------------------|-------------------------------------------|
| 89865-OB            | 89865-1OB                    | Idler hub, oil bath | 99865-OB            | 99865-1OB                    | Hub & brake drum, oil bath, for hydraulic |
| 89865-OBR           | 89865-1OBR                   | Hub for 99865-DRUM  | 99865-OBE           | 99865-1OB*                   | Hub & brake drum, oil bath, for electric  |
| —                   | 99865-DRUM                   | Brake drum only     | 99865-OBA           | 99865-1OBA                   | Hub & brake air drum, oil bath            |

**Note:** Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups. Complete hubs include the cupped and studded hub, inner & outer bearings, seal, lug nuts, oil cap, oil cap plug "O" ring.

\* Armature plate not included.

## 9,000 LB. AND 10,000 LB. GENERAL DUTY BRAKES

| Part #   | Description                                    | Part #   | Description                                         |
|----------|------------------------------------------------|----------|-----------------------------------------------------|
| 1301-13  | Electric, 12 1/4" X 3 1/2", left hand, Warner  | 568255.1 | Electric, 12 1/4" X 3 1/2", right hand, Al-Ko       |
| 1301-12  | Electric, 12 1/4" X 3 1/2", right hand, Warner | 568213   | Hydraulic, 12 1/4" X 3 1/2", left/right hand, Al-Ko |
| 568255.2 | Electric, 12 1/4" X 3 1/2", left hand, Al-Ko   |          |                                                     |

**Note:** It is not recommended to exceed axle capacity by spring capacity.

# 9K & 10K Gen. Duty Axle Assemblies

## 9,000 LB. AND 10,000 LB. GENERAL DUTY HANGER KITS

| Part #    | Description      | Springs | Part #         | Description      | Springs |
|-----------|------------------|---------|----------------|------------------|---------|
| APS92     | Single axle, 9K  | Slipper | APT1025GD4275  | Tandem axle, 10K | Slipper |
| APT92     | Tandem axle, 9K  | Slipper | APT1025GD4850  | Tandem axle, 10K | Slipper |
| APTT92    | Triple axle, 9K  | Slipper | APTT1025GD4275 | Triple axle, 10K | Slipper |
| APS1025GD | Single axle, 10K | Slipper | APTT1025GD4850 | Triple axle, 10K | Slipper |

## 9,000 LB. AND 10,000 LB. GENERAL DUTY LEAF SPRINGS

| Part #   | Style   | Length | Capacity   | No. of Leaves | Width |
|----------|---------|--------|------------|---------------|-------|
| 4361-45  | Slipper | 30"    | 4,500 lbs. | 6             | 2"    |
| 43101-56 | Slipper | 32.5"  | 5,000 lbs. | 5             | 2.5"  |

## 9,000 LB. AND 10,000 LB. GENERAL DUTY U-BOLT KITS

| Part #  | Description             | Tube Diameter |
|---------|-------------------------|---------------|
| APUBR40 | Round beam, 2" spring   | 4"            |
| APUBR50 | Round beam, 2.5" spring | 5"            |

## 9K LBS. & 10K GENERAL DUTY TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                              | 9K   | 10K/GD | Specifications/ Options      | 9K   | 10K/GD |
|------------------------------------------------------|------|--------|------------------------------|------|--------|
| <b>Lubrication</b>                                   |      |        | <b>Brakes</b>                |      |        |
| Grease lube                                          | X    | X      | Electric brake               | X    | X      |
| Oil bath lube                                        | Std. | Std.   | Hydraulic brake, Duo-Servo   | X    | X      |
| <b>Studs</b>                                         |      |        | Brake flange on idler axle   | Std. | Std.   |
| 5/8" Studs                                           | Std. | Std.   | <b>Spindles</b>              |      |        |
| Swivel flange nuts                                   | X    | X      | #99 spindle                  | Std. | Std.   |
| Tension ring with 5/8" cone nuts                     | Std. | Std.   | <b>Axle Materials</b>        |      |        |
| <b>Bolt Circles</b>                                  |      |        | 4" x .25" Round tube         | Std. |        |
| 8 Bolt on 6.5" circle, hub piloted with 4.88" pilot  | Std. | Std.   | 5" x .25" Round tube         |      | Std.   |
| 8 Bolt on 6.5" circle, hub piloted with 4.75" pilot  | X    | X      | <b>Attachments</b>           |      |        |
| 8 Bolt on 6.5" circle, stud piloted with 4.75" pilot | X    | X      | Adjustable spring seat       |      | X      |
| <b>Seals</b>                                         |      |        |                              |      |        |
| Unitized seal                                        | Std. | Std.   | Std. = Standard X = Optional |      |        |

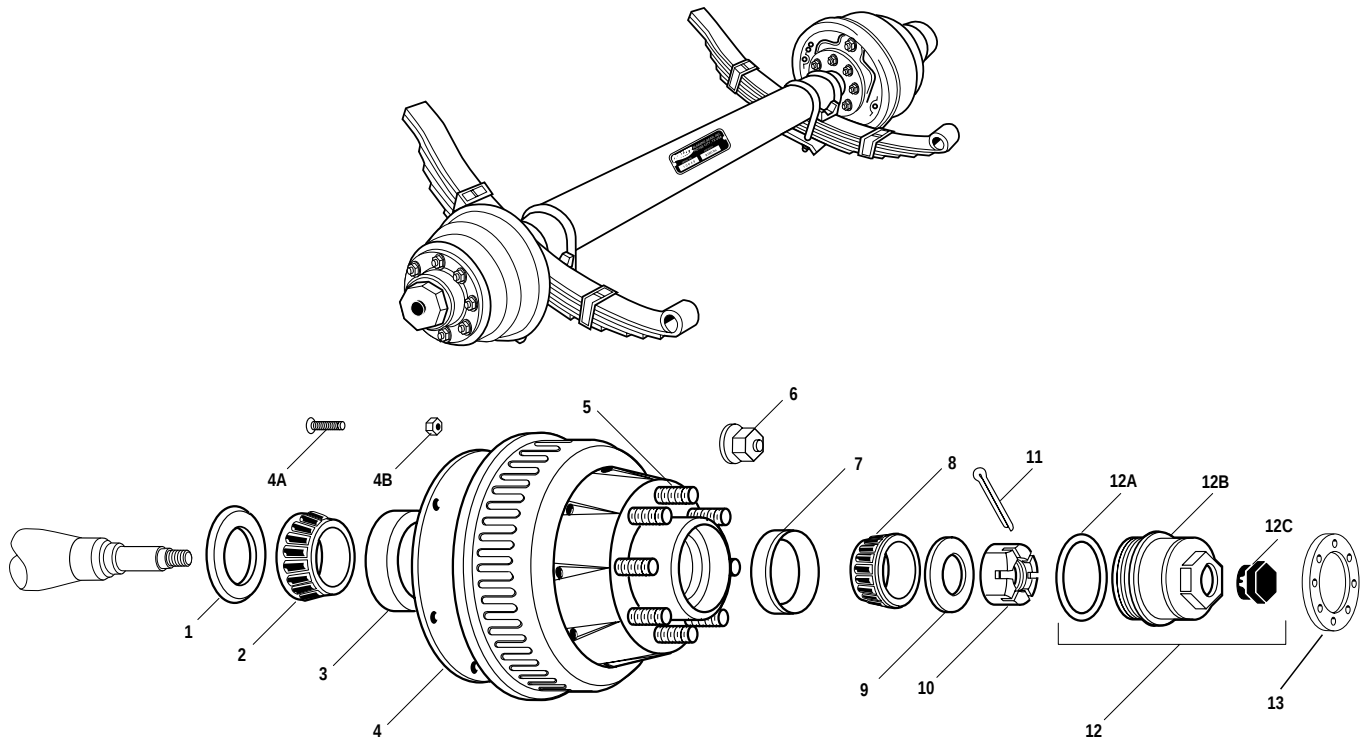
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# 10K & 12K Axle Assemblies



## 10,000 LB. HEAVY DUTY AND 12,000 LB. COMPONENT PARTS

| Part #   | Description                      | Diagram # | Part #   | Description                         | Diagram # |
|----------|----------------------------------|-----------|----------|-------------------------------------|-----------|
| 568217   | Oil seal, unitized, 2.75"        | 1         | JM205149 | Outer bearing, 1.9685" ID           | 8         |
| JM511946 | Inner bearing, 2.5591" ID        | 2         | 4798     | Spindle washer, 1.5"                | 9         |
| JM511910 | Inner race, 4.3307" OD           | 3         | CP-3     | Cotter pin, ¼" x 3"                 | 10        |
| 1301-9   | ♦ Armature plate                 | 4         | 4797     | Spindle nut, 1½" - 12               | 11        |
| FL14201  | ♦ Flat head bolt, ¼" - 20        | 4A        | 12011-1  | Oil cap, complete assembly          | 12        |
| 14LN     | ♦ Lock nut, ¼" - 20              | 4B        | N70238   | "O" ring                            | 12A       |
| 363910   | Wheel stud, ⅝" - 18 x 2.75"      | 5         | 12011    | Oil cap, 3.75" - 8                  | 12B       |
| 568216   | Swivel flange wheel nut, ⅝" - 18 | 6         | RP-200   | Oil cap plug                        | 12C       |
| JM205110 | Outer race, 3.5433" OD           | 7         | 72-2140  | Tension ring, 8 on 6.5" bolt circle | 13        |

Note: ♦ For electric brake only

## 10,000 LB. HEAVY DUTY AND 12,000 LB. HUBS/DRUMS

| Hub, Cupped & Studded Part # | Description        | Bolt Pattern |
|------------------------------|--------------------|--------------|
| 568260                       | Hub and brake drum | 8 on 6½"     |

Note: Cupped & studded hubs include the hub, wheel studs and inner & outer race/cups.

## 10,000 LB. HEAVY DUTY AND 12,000 LB. BRAKES

| Part #   | Description                                   | Part #  | Description                              |
|----------|-----------------------------------------------|---------|------------------------------------------|
| 568255.2 | Electric, 12¼" X 3½", left hand, Al-Ko        | 1301-13 | Electric, 12¼" X 3½", left hand, Warner  |
| 568255.1 | Electric, 12¼" X 3½", right hand, Al-Ko       | 1301-12 | Electric, 12¼" X 3½", right hand, Warner |
| 568213   | Hydraulic, 12¼" X 3½", left/right hand, Al-Ko |         |                                          |

Note: It is not recommended to exceed axle capacity by spring capacity.

# 10K & 12K Axle Assemblies

## 10,000 LB. HEAVY DUTY AND 12,000 LB. HANGER KITS

| Part #        | Description | Springs | Part #         | Description | Springs |
|---------------|-------------|---------|----------------|-------------|---------|
| APS1025HD     | Single axle | Slipper | APTT1025HD4275 | Triple axle | Slipper |
| APT1025HD4275 | Tandem axle | Slipper | APTT1025HD4850 | Triple axle | Slipper |
| APT1025HD4850 | Tandem axle | Slipper |                |             |         |

## 10,000 LB. HEAVY DUTY AND 12,000 LB. LEAF SPRINGS

| Part #   | Style   | Length | Capacity   | No. of Leaves | Width |
|----------|---------|--------|------------|---------------|-------|
| 43101-56 | Slipper | 32.5"  | 5,000 lbs. | 5             | 2.5"  |
| 4361-60  | Slipper | 32.5"  | 6,000 lbs. | 6             | 2.5"  |

## 10,000 LB. HEAVY DUTY AND 12,000 LB. U-BOLT KITS

| Part #  | Description             | Tube Diameter |
|---------|-------------------------|---------------|
| APUBR50 | Round beam, 2.5" spring | 5"            |

## 10K LBS. HEAVY DUTY & 12K TUBULAR AND TORSION AXLES – SPECIFICATIONS AND OPTIONS

| Specifications/ Options                           | 10K/HD | 12K  | Specifications/ Options             | 10K/HD | 12K  |
|---------------------------------------------------|--------|------|-------------------------------------|--------|------|
| <b>Lubrication</b>                                |        |      | <b>Brakes (continued)</b>           |        |      |
| Grease Lube                                       | X      | X    | Hydraulic brake, Duo-Servo          | X      | X    |
| Oil bath lube                                     | Std.   | Std. | Hydraulic disc brake                | X      | X    |
| <b>Studs</b>                                      |        |      | Air brake                           | X      | X    |
| 5/8" Studs                                        | Std.   | Std. | Air spring brake                    | X      | X    |
| 3/4" Studs                                        | X      |      | Manual slack adjusters              | X      | X    |
| Swivel flange nuts                                | X      | Std. | Automatic slack adjusters           | X      | X    |
| Tension ring with 5/8" cone nuts                  | Std.   | X    | ABS sensors (6K, 7K & 8K disc only) | X      | X    |
| <b>Bolt Circles</b>                               |        |      | Brake flange on idler axle          | Std.   | Std. |
| 8 Bolt on 6.5" circle, flat face with 4.88" pilot | Std.   | Std. | <b>Spindles</b>                     |        |      |
| 8 Bolt on 6.5" circle, flat face with 4.75" pilot | X      | X    | #120 spindle                        | Std.   | Std. |
| 8 Bolt on 6.5" circle, coined with 4.75" pilot    | X      | X    | <b>Axle Material</b>                |        |      |
| <b>Seals</b>                                      |        |      | 5" x .25" Round tube                | Std.   |      |
| Unitized seal                                     | Std.   | Std. | 5.125" x .3125"                     |        | Std. |
| <b>Brakes</b>                                     |        |      | <b>Attachments</b>                  |        |      |
| Electric brake                                    | X      | X    | Adjustable spring seat              | X      | X    |

Std. = Standard X = Optional

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# 22.5K & 25K Axle Assemblies



| 22.5 AND 25,000 LB. AXLE ASSEMBLIES – SPECIFICATIONS AND OPTIONS |       |      |                                             |       |      |
|------------------------------------------------------------------|-------|------|---------------------------------------------|-------|------|
| Specifications/ Options                                          | 22.5K | 25K  | Specifications/ Options                     | 22.5K | 25K  |
| <b>Lubrication</b>                                               |       |      | <b>Seals</b>                                |       |      |
| Oil bath lube                                                    | Std.  | Std. | Unitized                                    | Std.  | Std. |
| Grease lube (unitized hubs only)                                 | X     | X    | Specialty                                   | X     | X    |
| <b>Studs</b>                                                     |       |      | <b>Brakes</b>                               |       |      |
| 3/4" Studs                                                       | Std.  | Std. | 12.25" x 7.5" Quick change air brakes       | X     | X    |
| 22mm Studs                                                       | Std.  | Std. | 16.5" x 7" Quick change air brakes          | X     | X    |
| Inner & outer dual nuts for steel inner & outer wheels           | X     | X    | 15" x 6" Disc air brakes                    | X     | X    |
| Inner & outer dual nuts for aluminum inner & outer wheels        | X     | X    | Type 30 service chambers                    | Std.  | Std. |
| Inner & outer dual nuts for steel inner & aluminum outer wheels  | X     | X    | Type 30/30 service chambers (spring brakes) | X     | X    |
| Dual nuts for super single aluminum wheels                       | X     | X    | 28 Spline cam                               | Std.  | Std. |
| Rim clamps & wheel nuts for cast spoke wheels                    | X     | X    | 10 Spline cam                               | X     | X    |
| <b>Bolt Circles</b>                                              |       |      | Automatic slack adjusters                   | Std.  | Std. |
| 3 Spoke cast wheel (inboard mount drum only)                     | X     | X    | Manual slack adjusters                      | X     | X    |
| 5 Spoke cast wheel (inboard mount drum only)                     | X     | X    | Straight slack adjusters                    | Std.  | Std. |
| 10 Bolt on 8.75" circle, stud piloted                            | X     | X    | Curved slack adjusters                      | X     | X    |
| 10 Bolt on 11.25" circle, stud piloted                           | X     | X    | Dust shield                                 | X     | X    |
| 10 Bolt on 285.75mm, hub piloted                                 | X     | X    | ABS sensor blocks and tone rings            | X     | X    |
| <b>Hubs and Drums</b>                                            |       |      | <b>Spindles</b>                             |       |      |
| Ductile steel hubs                                               | X     | X    | Integral tapered spindles                   | Std.  | Std. |
| Aluminum hubs                                                    | X     | X    | Integral parallel spindles                  | X     | X    |
| Unitized/sealed ductile hubs (10 on 11.25" circle only)          | X     | X    | <b>Axle Materials</b>                       |       |      |
| Inboard mount cast drums                                         | X     | X    | 5" x .5" Round tube                         | Std.  | –    |
| Outboard mount cast drums                                        | X     | X    | 5" x .625" Round tube                       | X     | Std. |
| Inboard mount centrifuse drums                                   | X     | X    | Std. = Standard X = Optional                |       |      |
| Outboard mount centrifuse drums                                  | X     | X    |                                             |       |      |

**Note:** It is not recommended to exceed axle capacity by spring capacity.  
Suspensions listed on page B-20

# Axle Components

## BEARINGS AND RACES

| Bearing Part # | Race Part # | Application        |       |       | Bearing I.D. | Race O.D. |
|----------------|-------------|--------------------|-------|-------|--------------|-----------|
|                |             | Spindle            | Inner | Outer |              |           |
| 11949          | 11910       | BT                 | X     | X     | .75"         | 1.781"    |
| L-44643        | L-44610     | BT8                | X     | X     | 1"           | 1.98"     |
| L-44649        | L-44610     | BT8/BT16/#84 Outer | X     | X     | 1.063"       | 1.98"     |
| LM-67048       | LM-67010    | #42                |       | X     | 1.25"        | 2.328"    |
| 15123          | 15245       | #42                |       | X     | 1.25"        | 2.441"    |
| 14125A         | 14276       | #42                |       | X     | 1.25"        | 2.717"    |
| 02475          | 02420       | #42                |       | X     | 1.25"        | 2.688"    |
| L-68149        | L-68111     | #84                | X     |       | 1.378"       | 2.362"    |
| 25580          | 25520       | #42                | X     |       | 1.75"        | 2.875"    |
| 25580-T        | 25520-T     | #99                |       | X     | 1.75"        | 2.875"    |
| JM205149       | JM205110    | #120               |       | X     | 1.9685"      | 3.5433"   |
| 28580-T        | 28521-T     | #99                | X     |       | 2"           | 3.265"    |
| JM511946       | JM511910    | #120               | X     |       | 2.5591"      | 4.3307"   |



L-44649



L-44610

## SEALS

| Part #   | Type       | Spindle | I.D.   | O.D.   | Vendor Cross-Reference |          |          |
|----------|------------|---------|--------|--------|------------------------|----------|----------|
|          |            |         |        |        | Chicago Rawhide        | National | NOK      |
| 04247    | Single lip | BT      | 1.125" | 1.784" | CR11164                |          | AF7103E1 |
| 12192VB  | Single lip | BT8     | 1.250" | 1.983" | CR12404                |          | AF1836F0 |
| 12192TB  | Double lip | BT8     | 1.250" | 1.983" |                        | 470706   | AD1836E0 |
| 15191VB  | Single lip | BT16    | 1.50"  | 1.987" | CR14840                |          | AR2266F0 |
| 15192TB  | Double lip | BT16    | 1.50"  | 1.987" | CR14821                |          | AD2267E0 |
| 171255VB | Single lip | #84     | 1.719" | 2.565" | CR17146                | 442251   | AF2548F0 |
| 171255TB | Double lip | #84     | 1.719" | 2.565" | CR17144                | 473336   | AD2548E0 |
| 10-42    | Single lip | D28     | 1.750" | 2.331" |                        |          | UF0015E0 |
| 10-40    | Single lip | MHU     | 1.938" | 2.51"  |                        |          | AF2812E0 |
| 10-41    | Nylon      | MH      | 1.938" | 2.523" |                        |          |          |
| 10-01    | Single lip | D42     | 2.125" | 3.375" |                        | 440972   | AF7172E1 |
| 10-10    | Double lip | D42     | 2.125" | 3.375" | CR21352                | 470972   | AD8717E0 |
| 22333VB  | Single lip | #42     | 2.250" | 3.376" | CR22550                | 442109   | AF3135G1 |
| 22333TBN | Double lip | #42     | 2.250" | 3.376" | CR22558                | 472920   | AD3135E0 |
| 370219A  | Unitized   | #42     | 2.250" | 3.376" |                        | 320219EG |          |
| 23364SA  | Double lip | #99     | 2.375" | 3.630" | CR23839                | 455380   | AA3267F0 |
| CR27438  | Unitized   | #99     | 2.750" | 3.784" | CR27438                |          |          |
| 10-51    | Unitized   | D10GD   | 2.875" | 3.880" |                        | 370150BG |          |
| 568217   | Unitized   | #120    | 3.125" | 4.50"  | CR31281                | 370014BG |          |
| 10-56    | Unitized   | D10     | 3.125" | 4.506" |                        | 370014   |          |



Single Lip Seal



Single Lip Seal

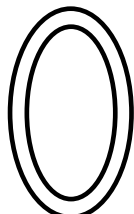


Double Lip Seal

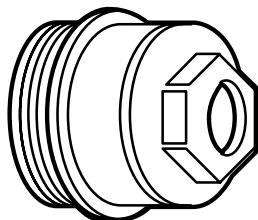


Double Lip Seal

# Axle Components



N70238



12011



RP-200

*genuine*  
**Bearing Buddy®**



1980

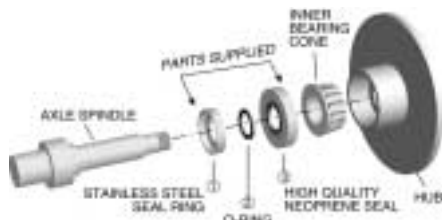
## OIL CAP ASSEMBLIES AND COMPONENTS

| Part #  | Application                                     | Description      | Size        |
|---------|-------------------------------------------------|------------------|-------------|
| 8001    | 6K - 8K QRG, Hayes, Al-Ko                       | Oil cap complete | 2.875" - 8  |
| 22-03   | 6K - 9K (pre '90) Dexter                        | Oil cap complete | 2.875" - 12 |
| 22-06   | 6K - 7K Dexter UTG                              | Oil cap complete | 2.563"      |
| D10C    | 9K - 10K GD QRG (pre '96)                       | Oil cap complete | 3.5" - 14   |
| 12011-1 | 9K - 12K QRG (post '96), Hayes, Al-Ko           | Oil cap complete | 3.75" - 8   |
| 22-07   | 9K (post '90) - 15K Dexter                      | Oil cap complete | 4"          |
| 801     | 6K - 8K QRG (pre '97), Hayes, Al-Ko             | Oil cap only     | 2.875" - 8  |
| 21-35   | 6K - 8K QRG (post '97) 6K - 9K (pre '90) Dexter | Oil cap only     | 2.875" - 12 |
| 21-40   | 6K - 7K Dexter UTG                              | Oil cap only     | 2.563"      |
| D10C1   | 9K - 10K GD QRG (pre '96)                       | Oil cap only     | 3.5" - 14   |
| 12011   | 9K - 12K QRG (post '96), Hayes, Al-Ko           | Oil cap only     | 3.75" - 8   |
| 21-36   | 9K (post '90) - 15K Dexter                      | Oil cap only     | 4"          |
| 802     | 6K - 8K QRG, Hayes, Al-Ko                       | Gasket           | 2.875"      |
| 10-45   | 6K - 9K (pre '90) Dexter                        | Oil cap o-ring   | 2.875"      |
| 10-59   | 6K - 7K Dexter UTG                              | Oil cap o-ring   | 2.563"      |
| N70238  | 9K - 12K QRG, Hayes, Al-Ko                      | Oil cap o-ring   | 3.75"       |
| 10-50   | 9K (post '90) - 15K Dexter                      | Oil cap o-ring   | 4"          |
| RP-200  | 6K - 15K QRG, Dexter                            | Oil cap plug     | N/A         |
| 568223  | 6K - 12K Hayes, Al-Ko                           | Oil cap plug     | N/A         |
| 46-52   | 8K - 15K Dexter                                 | Oil hub plug     | N/A         |

## WHEEL BEARING PROTECTORS AND BRAS

| Part #   | Description       | O.D.   | Finish         | Brand         | Unit |
|----------|-------------------|--------|----------------|---------------|------|
| BP178    | Protector         | 1.78"  | Chrome         | Fulton        | Pair |
| 16255    | Protector and bra | 1.98"  | Chrome / black | N/A           | Pair |
| BP198    | Protector         | 1.98"  | Chrome         | Fulton        | Pair |
| BB198    | Bra               | 1.98"  | Gray           | Fulton        | Pair |
| BB198E   | Bra               | 1.98"  | Black          | Fulton        | Pair |
| BP1980-B | Protector         | 1.98"  | Black          | Kodiak        | Pair |
| 1980     | Protector         | 1.98"  | Chrome         | Bearing Buddy | Pair |
| 19-B     | Bra               | 1.98"  | Black          | Bearing Buddy | Pair |
| BP244    | Protector         | 2.44"  | Chrome         | Fulton        | Pair |
| BB244    | Bra               | 2.44"  | Gray           | Fulton        | Pair |
| BP2717   | Protector         | 2.717" | Chrome         | N/A           | Each |
| BB2717   | Bra               | 2.717" | Black          | N/A           | Each |

A high quality neoprene seal and a stainless steel wear sleeve ensures that these seals have a prolonged life. Each kit consist of 2 seals, 2 O-rings and 2 wear sleeves



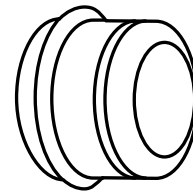
## SPINDLE SEALS

| Part # | Description                         | O.D.  |
|--------|-------------------------------------|-------|
| SS1    | "Spindle Seal" kit for BT8 spindle  | 1.98" |
| SS5    | "Spindle Seal" kit for BT16 spindle | 1.98" |
| SS2    | "Spindle Seal" kit for #84 spindle  | 2.56" |

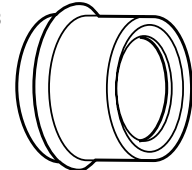
# Axle Components

## GREASE CAPS

| Part #    | Type                   | Size  | Part #    | Type                   | Size   |
|-----------|------------------------|-------|-----------|------------------------|--------|
| 21-3      | Plain                  | 1.98" | 21-1-ALZP | Accu-Lube, zinc plated | 2.44"  |
| 21-3-AL   | Accu-Lube              | 1.98" | 1605      | Plain                  | 2.717" |
| 21-3-ALZP | Accu-Lube, zinc plated | 1.98" | 1605-AL   | Accu-Lube              | 2.717" |
| 21-1      | Plain                  | 2.44" | RP-100    | Accu-Lube rubber plug  | N/A    |
| 21-1-AL   | Accu-Lube              | 2.44" |           |                        |        |



21-3



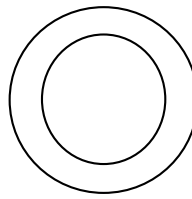
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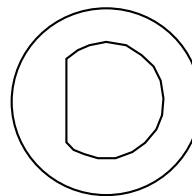
RP-100

## SPINDLE WASHERS

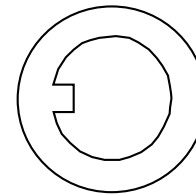
| Part #   | Type             | Size   |
|----------|------------------|--------|
| 4753-3/4 | Plain            | 3/4"   |
| 4753-D   | "D"              | 7/8"   |
| 4753     | Plain            | 1"     |
| 4753-T   | Tongue           | 1"     |
| 4753-TW  | Tongue, wide     | 1"     |
| 93001    | "D" Folding Tang | 1"     |
| 5-23     | "D"              | 1"     |
| 5-57     | "D" Wide         | 1"     |
| 4798     | Plain            | 1 1/2" |



4753



4753-D



4753-T

## SPINDLE NUTS

| Part #   | Type               | Size        |
|----------|--------------------|-------------|
| 4754-3/4 | Castelated 6 slot  | 3/4" - 18   |
| 4754     | Castelated 6 slot  | 1" - 14     |
| 6-176    | Castelated 12 slot | 1" - 14     |
| 4797     | Castelated 6 slot  | 1 1/2" - 12 |

## COTTER PINS

| Part # | Application            | Description |
|--------|------------------------|-------------|
| 4755   | 2,000–8,000 lb. axles  | 1/8" x 2"   |
| CP-3   | 9,000–12,000 lb. axles | 1/4" x 3"   |



4754



JT-6-1LB

## WHEEL BEARING GREASE

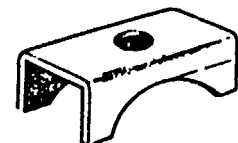
| Part #   | Description                 |
|----------|-----------------------------|
| JT-6-1LB | Wheel bearing grease, 1 lb. |



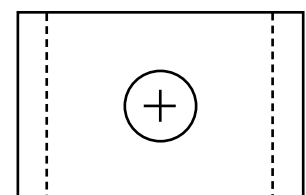
4755

## SPRING PADS

| Part #   | Application                           | Spring Width |
|----------|---------------------------------------|--------------|
| SP-1.75  | 1.75" Round Tube                      | 1.75"        |
| SP-2.375 | 2.375" Round Tube                     | 1.75" - 2"   |
| SP-2X2   | 2" Square or 2" x 3" Rectangular Tube | 1.75" - 2"   |
| SP-3     | 3" Round Tube                         | 1.75" - 2"   |
| SP-350   | 3.5" Round Tube                       | 1.75" - 2"   |
| SP-4     | 4" Round Tube                         | 2" - 2.5"    |
| SP-5     | 5" Round Tube                         | 2.5" - 3"    |
| SP-5-ADJ | 5" Round Tube, adjustable             | 2.5" - 3"    |

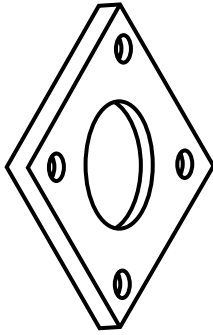


SP-2.375

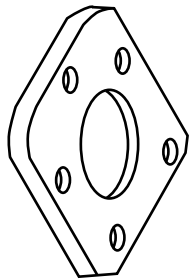


SP-2X2

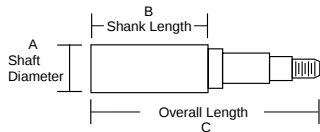
# Axle Components



4-34



4-6T



## BRAKE FLANGES

| Part #  | Bolt Pattern | Spindle    | I.D.      |
|---------|--------------|------------|-----------|
| 4-29    | 4 on 4"      | BT8 / BT16 | 1.512" RD |
| 4-34    | 4 on 4"      | BT8 / BT16 | 1.64" RD  |
| 4-16    | 4 on 4"      | #84        | 1.80" RD  |
| 4-12    | 4 on 4"      | #84        | 2.275" RD |
| 4-6T    | 5 on 3.875"  | #42        | 2.75" RD  |
| 4-6A    | 5 on 3.875"  | #42        | 2.12" SQ  |
| 4-6Q    | 5 on 3.875"  | #42        | 2.312" RD |
| 9045702 | 5 on 5.5"    | #99        | 3.86" RD  |

## ROUND SPINDLES

| Part #       | Type | Cap.      | A   | B   | C    | Inner Bearing | Outer Bearing | Seal Area |
|--------------|------|-----------|-----|-----|------|---------------|---------------|-----------|
| R104BT8      | BT8  | 1,000 lb. | 1¼" | 3½" | 8¾"  | 1"            | 1"            | 1.25"     |
| R204BT8      | BT8  | 1,000 lb. | 1½" | 3½" | 8¾"  | 1"            | 1"            | 1.25"     |
| R104BT16-AL  | BT16 | 1,000 lb. | 1¼" | 3½" | 8¾"  | 1⅛"           | 1⅛"           | 1.25"     |
| R204BT16-AL  | BT16 | 1,000 lb. | 1½" | 3½" | 8¾"  | 1⅛"           | 1⅛"           | 1.25"     |
| R104BT16     | BT16 | 1,000 lb. | 1¼" | 3½" | 8¾"  | 1⅛"           | 1⅛"           | 1.25"     |
| R204BT16     | BT16 | 1,000 lb. | 1½" | 3½" | 8¾"  | 1⅛"           | 1⅛"           | 1.50"     |
| R20484-1.500 | #84  | 1,750 lb. | 1½" | 3½" | 8¾"  | 1⅜"           | 1⅛"           | 1.72"     |
| R20484-1.625 | #84  | 1,750 lb. | 1⅝" | 3½" | 8¾"  | 1⅜"           | 1⅛"           | 1.72"     |
| R20484       | #84  | 1,750 lb. | 1¾" | 3½" | 8¾"  | 1⅜"           | 1⅛"           | 1.72"     |
| R20684       | #84  | 1,750 lb. | 1¾" | 6"  | 10¾" | 1⅜"           | 1⅛"           | 1.72"     |
| R20484-AL    | #84  | 1,750 lb. | 1¾" | 3½" | 8¾"  | 1⅜"           | 1⅛"           | 1.72"     |
| R30484       | #84  | 1,750 lb. | 2"  | 3½" | 8¾"  | 1⅜"           | 1⅛"           | 1.72"     |
| R30684       | #84  | 1,750 lb. | 2"  | 6"  | 10¾" | 1⅜"           | 1⅛"           | 1.72"     |
| R40642       | #42  | 3,000 lb. | 2"  | 6"  | 11"  | 1¾"           | 1¼"           | 2.25"     |
| R50642       | #42  | 3,000 lb. | 2¼" | 6"  | 11"  | 1¾"           | 1¼"           | 2.25"     |
| R750399      | #99  | 4,500 lb. | 2½" | 2⅞" | 9¾"  | 1"            | 1¼"           | 2.375"    |

## ROUND CORNER SQUARE SPINDLES

|           |      |           |     |     |      |     |     |       |
|-----------|------|-----------|-----|-----|------|-----|-----|-------|
| SP204BT8  | BT8  | 1,000 lb. | 1½" | 3⅝" | 8¾"  | 1⅛" | 1⅛" | 1.25" |
| SP204BT16 | BT16 | 1,000 lb. | 1½" | 3⅝" | 8¾"  | 1⅛" | 1⅛" | 1.50" |
| SP35684   | #84  | 1,750 lb. | 1¾" | 6"  | 10⅜" | 1⅜" | 1⅛" | 1.72" |
| SP20484   | #84  | 1,750 lb. | 1½" | 3⅝" | 8¾"  | 1⅜" | 1⅛" | 1.72" |
| SP50642   | #42  | 3,000 lb. | 2"  | 6"  | 11"  | 1¾" | 1¼" | 2.25" |

**FAST • FRIENDLY • FLEXIBLE**

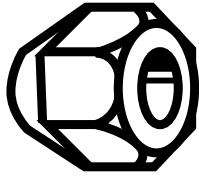
# Axle Components

End units are used extensively in the marine industry. They are available in numerous configurations – straight or drop with electric, hydraulic or hydraulic disc. All end units are assembled, lubed and ready for mounting on your axle tube. Listed are straight spindle assemblies, however, ask your branch for other available options.

| END UNITS        |               |             |             |                     |           |
|------------------|---------------|-------------|-------------|---------------------|-----------|
| Part #           | Capacity (ea) | Spindle #   | Bolt Circle | Brake               | Lube      |
| R104BT8-440      | 1,000 lbs.    | R104BT8     | 440         | N/A                 | Plain     |
| R104BT8-545      | 1,000 lbs.    | R104BT8     | 545         | N/A                 | Plain     |
| R104BT16-440     | 1,000 lbs.    | R104BT16    | 440         | N/A                 | Plain     |
| R104BT16-440A    | 1,000 lbs.    | R104BT16-AL | 440         | N/A                 | Accu-Lube |
| R104BT16-545     | 1,000 lbs.    | R104BT16    | 545         | N/A                 | Plain     |
| R104BT16-545A    | 1,000 lbs.    | R104BT16-AL | 545         | N/A                 | Accu-Lube |
| R20484-545       | 1,750 lbs.    | R20484      | 545         | N/A                 | Plain     |
| R20484-545A      | 1,750 lbs.    | R20484-AL   | 545         | N/A                 | Accu-Lube |
| R20484-550       | 1,750 lbs.    | R20484      | 550         | N/A                 | Accu-Lube |
| R20484-550A      | 1,750 lbs.    | R20484-AL   | 550         | N/A                 | Accu-Lube |
| R20484F-545-ALEL | 1,750 lbs.    | R20484-AL-F | 545         | LH Elect.           | Accu-Lube |
| R20484F-545-ALER | 1,750 lbs.    | R20484-AL-F | 545         | RH Elect.           | Accu-Lube |
| R20484F-545-ALHL | 1,750 lbs.    | R20484-AL-F | 545         | LH Hyd.             | Accu-Lube |
| R20484F-545-ALHR | 1,750 lbs.    | R20484-AL-F | 545         | RH Hyd.             | Accu-Lube |
| R20484F-545-ALFL | 1,750 lbs.    | R20484-AL-F | 545         | LH Hyd. FB          | Accu-Lube |
| R20484F-545-ALFR | 1,750 lbs.    | R20484-AL-F | 545         | RH Hyd. FB          | Accu-Lube |
| R20484F-545-ALDP | 1,750 lbs.    | R20484-AL-F | 545         | Plain Hyd.<br>Disc  | Accu-Lube |
| R20484F-545-ALDE | 1,750 lbs.    | R20484-AL-F | 545         | E-Coat Hyd.<br>Disc | Accu-Lube |

|               |       |         |       |         |
|---------------|-------|---------|-------|---------|
| Rule of Thumb | 1/64  | .015625 | 33/64 | .515625 |
|               | 1/32  | .03125  | 17/32 | .53125  |
|               | 3/64  | .046875 | 35/64 | .546875 |
|               | 1/16  | .0625   | 9/16  | .5625   |
|               | 5/64  | .078125 | 37/64 | .578125 |
|               | 3/32  | .09375  | 19/32 | .59375  |
|               | 7/64  | .109375 | 39/64 | .609375 |
|               | 1/8   | .125    | 5/8   | .625    |
|               | 9/64  | .140625 | 41/64 | .640625 |
|               | 5/32  | .15625  | 21/32 | .65625  |
|               | 11/64 | .171875 | 43/64 | .671875 |
|               | 3/16  | .1875   | 11/16 | .6875   |
|               | 13/64 | .203125 | 45/64 | .703125 |
|               | 7/32  | .21875  | 23/32 | .71875  |
|               | 15/64 | .234375 | 47/64 | .734375 |
|               | 1/4   | .25     | 3/4   | .75     |
|               | 17/64 | .265625 | 49/64 | .765625 |
|               | 9/32  | .28125  | 25/32 | .78125  |
|               | 19/64 | .296875 | 51/64 | .796875 |
|               | 5/16  | .3125   | 13/16 | .8125   |
|               | 21/64 | .328125 | 53/64 | .828125 |
|               | 11/32 | .34375  | 27/32 | .84375  |
|               | 23/64 | .359375 | 55/64 | .859375 |
|               | 3/8   | .375    | 7/8   | .875    |
|               | 25/64 | .390625 | 57/64 | .890625 |
|               | 13/32 | .40625  | 29/32 | .90625  |
|               | 27/64 | .421875 | 59/64 | .921875 |
|               | 7/16  | .4375   | 15/16 | .9375   |
|               | 29/64 | .453125 | 61/64 | .953125 |
|               | 15/32 | .46875  | 31/32 | .96875  |
|               | 31/64 | .484375 | 63/64 | .984375 |
|               | 1/2   | .5      | 1     | 1       |

# Axle Components



4756



4756-C



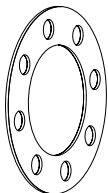
568216



13-3005L



13-3029L



72-2140

## WHEEL ATTACHING HARDWARE

| Part #   | Type                                                    | Size             |
|----------|---------------------------------------------------------|------------------|
| 4756     | 60 Degree cone nut                                      | ½" - 20          |
| 4756-C   | 60 Degree cone nut, chrome                              | ½" - 20          |
| 4756-SS  | 60 Degree cone nut, stainless steel                     | ½" - 20          |
| 40912    | 60 Degree locking cone nut, chrome (4 pack with key)    | ½" - 20          |
| 7-40     | 60 Degree cone bolt                                     | ½" - 20          |
| 4756-1   | 60 Degree cone nut                                      | ⅝" - 18          |
| 4756-2   | 90 Degree cone nut                                      | ⅝" - 18          |
| 13-8002  | Flat hex nut                                            | ⅝" - 11          |
| X1048    | 90 Degree cone nut                                      | ⅝" - 18          |
| 568216   | Two piece flange nut                                    | ⅝" - 18          |
| 13-8004  | Flat hex nut                                            | ¾" - 10          |
| 9065603  | Two piece flange nut                                    | ¾" - 16          |
| 13-3005L | Inner ball seat, steel inner/steel outer wheel LH       | ¾" - 16          |
| 13-3005R | Inner ball seat, steel inner/steel outer wheel RH       | ¾" - 16          |
| 13-3029L | Inner ball seat, steel inner/aluminum outer wheel LH    | ¾" - 16          |
| 13-3029R | Inner ball seat, steel inner/aluminum outer wheel RH    | ¾" - 16          |
| 13-3026L | Inner ball seat, aluminum inner/aluminum outer wheel LH | ¾" - 16          |
| 13-3026R | Inner ball seat, aluminum inner/aluminum outer wheel RH | ¾" - 16          |
| 13-3012L | Outer ball seat, steel wheel LH                         | 1⅞" - 16         |
| 13-3012R | Outer ball seat, steel wheel RH                         | 1⅞" - 16         |
| 13-3055L | Outer ball seat, aluminum wheel LH                      | 1⅞" - 16         |
| 13-3055R | Outer ball seat, aluminum wheel RH                      | 1⅞" - 16         |
| 13-3052  | Two piece flange nut                                    | M22X1.5          |
| 72-2140  | Dual wheel tension ring                                 | 8 on 6.5" Circle |

## WHEEL STUDS

| Part #    | Application                           | Type     | Size              |
|-----------|---------------------------------------|----------|-------------------|
| 4758-Z    | 2K QRG                                | Drive-In | ½" - 20 x 1.625"  |
| 4759-Z    | 3.5K - 7K QRG idlers / 3.5K QRG drums | Drive-In | ½" - 20 x 1.8125" |
| 7-122     | 3.5K - 7K Dexter                      | Drive-In | ½" - 20 x 1.8125" |
| 25-53     | 2K Dexter                             | Screw-In | ½" - 20 x 1.8125" |
| 4759-20-Z | 3.5K - 7K QRG idlers / 3.5K QRG drums | Drive-In | ½" - 20 x 2"      |
| 4759-25-Z | 5.2K - 7K QRG drums                   | Drive-In | ½" - 20 x 2.5"    |
| 7-132     | 8K Dexter                             | Drive-In | ⅝" - 18 x 2.3125" |
| 4759-28   | 8K QRG                                | Drive-In | ⅝" - 18 x 3"      |
| 90737     | 10K - 12K QRG, Hayes, Al-Ko           | Drive-In | ⅝" - 18 x 2.75"   |
| 7-115     | 9K - 12K Dexter                       | Drive-In | ⅝" - 18 x 3.125"  |
| 4759-30   | 9K - 10K gd QRG                       | Drive-In | ⅝" - 18 x 3.25"   |



Screw-In



Drive-In