DYNATRAC
PRODUCTS CO., INC.
7392 Count Circle • Huntington Beach, CA 92647-4551 • (714) 596-4461 • Fax (714) 596-4449

FRONT AXLE SPECIFICATION WORKSHEET

For your convenience, and to help avoid any miscommunication, we have provided this specification sheet to help you tell us how your axle should be built. Please complete as much of the information as possible and notify us to set up a technical review appointment. At that time we will review the axle build with you and cover any questions or concerns you have before we start the build process. Please read all the instructions carefully before taking any measurements. Don't be afraid to call if you have any questions. A short time spent on this information will ensure a perfect fit in your vehicle and avoid any hassles for you at installation time.

Some Important Tips:

1. Before measuring the vehicle, make sure that it is shut off with the parking brake set. Always use jack stands to support the vehicle after jacking.
2. The front wheels should be pointed straight ahead to obtain correct measurements. The vehicle should be resting at normal ride height on flat level ground.
3. The vehicle must not be loaded down. It should be un-laden and contain only the equipment that is normally carried. For example; winches, welding equipment, service bodies, power tailgates, etc.

Please fill in as much information as possible:

Vehicle Manufacturer -

Model -

Year -

Vehicle ID number –

Engine -

Transmission -

Transfer Case -

Tire Diameter -

Leaf / Coil Springs -

Leaf springs over / under-

Suspension Lift Height -

Shackle Mods -

Spring Width -

Pack thickness -

Spring Pad Angle -

Sway Bar Mount Y / N

Total GVW (Tag inside door jamb) –

Front axle GVW –

Rear Axle GVW –

A-DIM -

B-DIM –

C-DIM –

D-DIM –

E-DIM –

F-DIM –

CV Joint Y / N

Wheel Pattern –

SRW / DRW

Wheel Size / Type –

Shock Mount Y / N

Trac Bar Mount Y / N

Does your vehicle have ABS and where is it located?

Special suspension notes:

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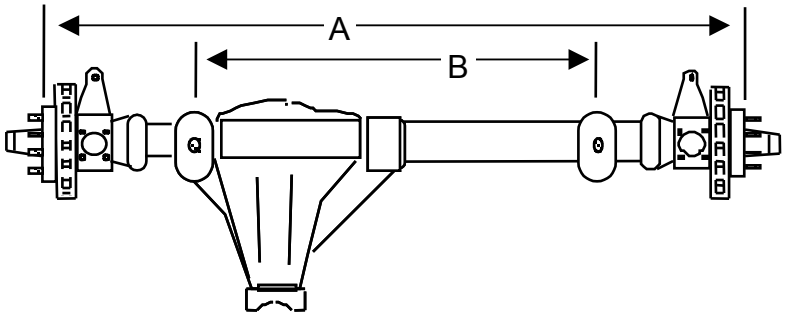
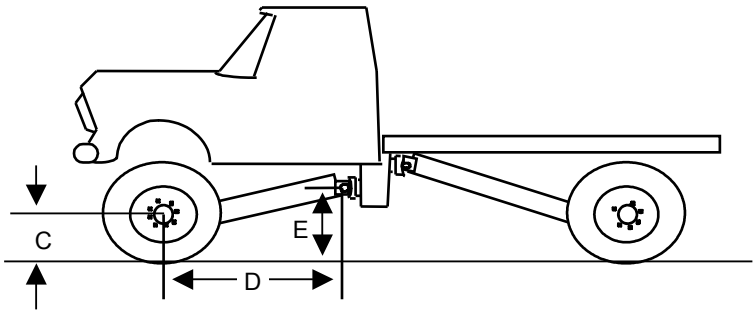
How to Obtain the Correct Dimensions for Your Vehicle

Dimension A - This is the running width of your existing drive axle. It is measured between the left and right wheel mounting surfaces. Most likely, the rotors, backing plates or other components will prevent you from simply stretching a tape measure from side to side. To overcome this we suggest that you use two straight edges, such as long rulers. Lay them against the wheel mounting surface on each side of the vehicle. They can be held on with a couple of lug nuts, a magnet, or a friend with an extra pair of hands. Next, simply measure the distance between the two inner edges of the straight edges to get the correct dimension. Plus or minus 1/4" is close enough. Don't forget that wheels should be pointing straight ahead.



Dimension B - This is the distance between the centers of the spring pads. This can be obtained by either measuring between the locating pins that hold the leaf spring pack together or from the holes in the pads themselves. Your straight edges may come in handy again here. If you use them make sure that they are square with the axle tubes and parallel with each other. As before, plus or minus 1/4" is close enough. If you have a coil spring front end (i.e. Bronco or F150) give us the distance between the centers of the "C bushings" where the front tracking arms connect to the housing.

Dimension C - This is the distance from the ground to the center of the hub. Take this dimension with the wheel on and sitting on the ground. If the hub is recessed in the wheel, try using a carpenters level placed against the hub extending outward. Just hold the level so the bubble indicates a level condition and stretch a tape measure from the level to the ground. Don't just divide the tire size in half since tire sizes vary too much. Plus or minus 1/4" is close enough.



Dimension D - This is the horizontal distance between the center of the front axle to the center of the U- joint where the driveshaft meets the transfer case. Try using a bolt tied to one end of some string with the other end tied to the U-joint at the transfer case. Let the bolt hang just above the ground and do the same thing for the axle housing tube (exposed axle shaft for IFS Fords). Then just use your tape measure to get the distance between the hanging strings. If anything deflects the string so it doesn't hang straight, just estimate the difference and figure it into your measurement. Again plus or minus 1/4" is close enough.

Dimension E - This is the distance from the ground to the center of the driveshaft U-joint where it meets the transfer case. This one is usually pretty easy and can be handled with just a tape measure. Plus or minus 1/4" is close enough.

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Dimension F - This is the offset of the pinion on the driver's side of the vehicle. Measure from the left hand wheel mounting surface to the center of the yoke or pinion output shaft.

Leaf / Coil Springs – Is the vehicle equipped with leaf or coil type suspension? If no suspension mounts are required, mark down "clean tube" on the first page of the work sheet.

Leaf Springs Over / Under – If the vehicle has leaf springs are they over or under the axle? Do you plan to change this?

Suspension lift height – How much lift from the springs does the vehicle have? How much over all lift does the vehicle have?

Shackle Mods – What modifications, if any, have been done to the leaf spring shackles? Do they add any height to the suspension lift?

Spring width – How wide are the leaf spring packs?

Pack thickness – How thick is the leaf spring pack?

Spring pad angle – What angle does the leaf spring pad sit at on the axle tube? Does the front of the pad point up or down? This can be hard to measure on certain vehicles. Call if assistance is required.

CV joint Y / N – Is the vehicle equipped with a CV joint on the drive shaft?

Bolt pattern – What is the stock bolt pattern of the vehicle? Will it change with the new axle? If so, what would you like it to be?

SRW / DRW – Does the vehicle have a single or dual rear wheel axle?

Wheel size and type – What size wheel will be used on the vehicle when the axles are installed? What type of wheel?

Shock mount Y / N - Do you need shock mounts welded onto the axle? We have many reference drawings of common vehicles but a drawing, pictures or measurements may be needed for certain vehicles or certain applications. Please call if assistance is required.

Trac bar mount Y / N - Do you need a trac bar mount welded onto the axle? Drawing, pictures or measurements may be needed for certain vehicles or certain applications. Please call if assistance is required.

Sway bar mounts Y / N - Do you need sway bar mounts welded onto the axle? Drawing, pictures or measurements may be needed for certain vehicles or certain applications. Please call if assistance is required.

At this point the worksheet should be filled out. If you have any questions or would like to make an appointment for a technical review please call or email Robert Brewer. He can be reached at 714-596-4461 X 204 or email at dynatracaxles@gmail.com.