

A-Arm Crossmember Worksheet Instructions

Only use this worksheet with Chassisworks Street Machine Crossmembers. Use this form to determine the front-hub to front-hub width needed to fit your wheel and tire combination. Use the actual wheel and tire combination you will be running when filling out this worksheet. Write all of the measurements on a separate piece of paper. Fill in the worksheet after you have double-checked all dimensions.

Using a front tire with a rolling radius of 12 inches or a 25 inch diameter, the crossmember ride height will be 4-1/2 inches from the ground. If you are using a taller or shorter tire the crossmember ride height will change proportionately. The distance from the outside of the crossmember to the hub-face is a constant 13-1/2 inches. Do not figure your crossmember width by matching an existing frame width, you will end up with the incorrect front hub to hub width. The minimum wheel diameter needed to clear our 11-3/4 inch disc brake is 15 inch.

Fill in your name, car year & model, and sign the worksheet at the top, leave the SO# blank.

The following are examples of how to fill in the top rows of questions.

TIRE SIZE: P195/65-15 BF Goodrich

WHEEL SIZE: 15 X 6 Weld Wheel

WHEEL SPACING: 4 inches

WHEEL BASE: Distance from the front axle centerline to rear axle centerline (only needed when ordering 2x4 full frame): 108 inches

The following are definitions of the lettered blanks. Using these definitions, enter the dimensions on the sheet in the following order.

“A” Distance from the wheel mounting surface to the outside tire sidewall.
Lay the tire on the floor with the outside sidewall down. Measure from the ground to the wheel mounting surface, enter on the worksheet as “A”.

“B” Outside tire clearance from the tire outside sidewall to inner fender lip.
We recommend 3 inches of outside tire clearance on driver and passenger sides. Your application may require more or less clearance. To determine the proper amount of tire clearance from the inside fender-lip, place the mounted wheel and tire into the front wheel opening with the car at ride height. Place the tire as close to the inner fender-lip as possible. Move the tire in until there is enough clearance between the inner fender lip and tire sidewall to rotate the tire 30 degrees in each direction from straight forward. Measure from the inner fender-lip to the outside tire sidewall, enter on the worksheet as “B”.

“C” This calculation equals the difference between the hub-to-hub width and the inner fender width. Calculate “C” using this formula: $(A+B) \times 2 = C$

“D” Width of the car from the driver inside front fender-lip to the passenger inside front fender-lip. Measure the front fender inner lip width from driver to passenger side, and enter the dimension on worksheet as “D”.

“E” Hub to hub width from the inside wheel to inside wheel mounting surfaces. Calculate “E” using this formula: $D - C = E$

“F” Crossmember outside width is 13-1/2 inches from the outside of the crossmember to the hub on each side, times two for a total of 27 inches, this is a constant dimension. After you calculate your crossmember width, round it up or down to the nearest full inch. Crossmembers are available in one inch increments from 24 inches to 38 inches outside width.

Calculate “F” using this formula: $E - 27 = F$

In Our Example:

A= 4.0 B= 3.0 C= 14.0 D= 69.0 E= 55.0 F= 28.0

C $(4.0+3.0) \times 2 = 14.0$

E $69.0 - 14.0 = 55.0$

F $55.0 - 27.0 = 28.0$

After double checking all dimensions, enter them on the worksheet. Sign the worksheet and fax it to (916) 388-0295 or mail it to Chassisworks at 8661 Younger Creek Drive, Sacramento, CA 95828.

If you have any additional questions, contact our Technical Department at (916) 388-0288.

Street Machine A-Arm Crossmember Worksheet

SO#	CUSTOMER	DATE
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I HAVE PROVIDED THESE SPECIFICATIONS FOR MY A-ARM CROSSMEMBER. I ACCEPT RESPONSIBILITY FOR THEIR ACCURACY.	SIGNATURE
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TIRE SIZE	WHEEL SIZE	WHEEL SPACING
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CAR YEAR / MODEL	WHEELBASE (FULL FRAMES ONLY)	CROSSMEMBER WIDTH NEEDED (ROUNDED TO NEAREST 1 INCH)
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A	B	C	D	E	F
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$(A+B) \times 2 = C$

$D - C = E$

$E - 27 = F$

