



11 Mennonite Church Road  
 Spring City, PA 19475  
 Fax 610-948-7342  
 Tech 610-948-7303  
 Orders 1-800-523-3353

**Document 390**

**Note: All custom orders must be pre-paid and are non-returnable and non-refundable**

## DATA SHEET - S&W RACE CARS

### Dimensions for Custom Roll Bar or Roll Cage

All dimensions are to be given in inches, except for dimension N, which is to be in degrees. Fractions are to be in one-eighth inch (1/8") increments or larger. For your own records, we have included a customer copy of this data sheet, write a copy of these dimensions on that sheet and put them away for safe keeping, before returning this sheet to S & W. This second set of measurements could be necessary if we need more information for any reason.

NAME \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

ADDRESS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DAYTIME PHONE # (      ) \_\_\_\_\_

MAIN HOOP: A = \_\_\_\_\_ " • B = \_\_\_\_\_ " • C = \_\_\_\_\_ " • D = \_\_\_\_\_ " • E = \_\_\_\_\_ "

BACK BRACES: F = \_\_\_\_\_ "

SIDE BARS: G = \_\_\_\_\_ "

FRAME SUPPORTS: H = \_\_\_\_\_ "

ROOF HOOP : J = \_\_\_\_\_ " • K = \_\_\_\_\_ "

WINDSHIELD POST RUNNERS: M = \_\_\_\_\_ " • N = \_\_\_\_\_ deg. • P = \_\_\_\_\_ "

MATERIAL TYPE (CHECK ONE) \_\_\_\_\_ MILD STEEL • \_\_\_\_\_ CHROME MOLY

MATERIAL SIZE (CHECK ONE) \_\_\_\_\_ 1-5/8" • \_\_\_\_\_ 1-3/4" • \_\_\_\_\_ OTHER PLEASE SPECIFY

MATERIAL WALL THICKNESS (PLEASE SPECIFY) \_\_\_\_\_

\_\_\_\_\_  
*Customer Signature Required*



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## DATA SHEET - CUSTOMER COPY

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We have included this copy of the data sheet for your records, please write a copy of these dimensions on both sheets and put your copy away for safe keeping, before returning the original to S & W. This second set of measurements could be necessary if we need more information for any reason.

NAME \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DAYTIME PHONE # (      ) \_\_\_\_\_

MAIN HOOP: A = \_\_\_\_\_ " • B = \_\_\_\_\_ " • C = \_\_\_\_\_ " • D = \_\_\_\_\_ " • E = \_\_\_\_\_ "

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\_\_\_\_\_  
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### **Custom Roll Bar/Cage Specification Instructions:**

These instructions and the other sheets included are to be used when you are requesting a "custom" roll bar or roll cage from S&W race Car.

Inspect all drawings to become familiar with the dimensions required for a custom roll bar/cage order.

All dimensions are to be given in inches, except dimension "N", which is to be in degrees.

Fractions are to be given in one-eighth inch (1/8") increments or larger.

The S&W DATA SHEET is to be returned to S&W Race Cars when you place your order.

For your own records, write all dimensions on the CUSTOMER DATA SHEET as you take them.

Glue the provided paper templates to a sheet of cardboard, and cut them out. The templates have the same bend radius as the finished roll bar or roll cage will have.

Note: It is very important that the dimensions be taken carefully and recorded accurately. The dimensions that you specify are the ones that S&W will use to make your custom roll bar or roll cage. Double Check!!!

### **Main Hoop Dimensions**

The degree marks on the templates are not used for determining any of the dimensions for the main hoop.

1.) Determine dimensions A, B, C, and D and record them.

2.) Use the templates to determine dimension E, see figure 1.

Place the templates where the top bends of the main hoop are to be.

Hold the templates so that one edge is horizontal and one edge is vertical.

The top edge of the template should be where the top (horizontal) edge of the main hoop will be. The templates should be placed so that the curved edges are as close to the body as you want the actual main hoop to be.

With the two templates in place, measure between the vertical edges. This is dimension E.

### **Roof Hoop**

The size of the roof hoop should be determined so that it provides both maximum safety and visibility for the driver. Determine dimensions J (length) and K (width) and record them. See Figure 3

### **Windshield Post Runners**

One template is used to determine dimensions M, N, and P. The degree marks on the template are used for finding dimension N.

1.) Hold the template where the bend is to be located in the windshield post runner, see figure 2.

Hold the template so that the zero (0 deg.) edge is closest to where the roof hoop tube will be.

To determine dimension M, measure from where the front of the roof hoop will be, to the zero degree edge of the template.

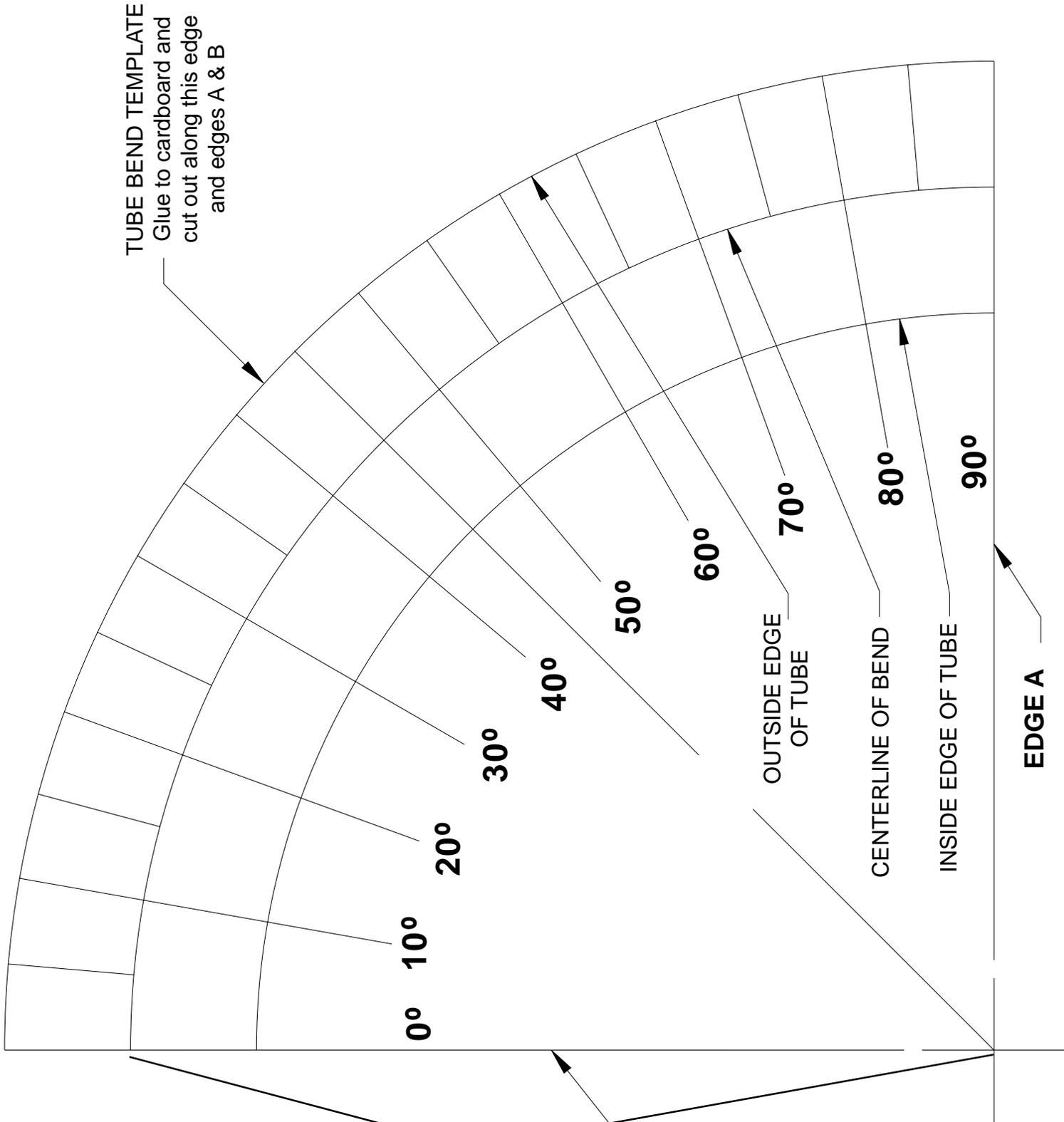
With the template in the same location, measure from the floor to the point on the template where the bend will end, This is dimension P.

Read the degree mark on the template where the bend will stop, this is dimension N.

Record all dimensions on your data sheet.

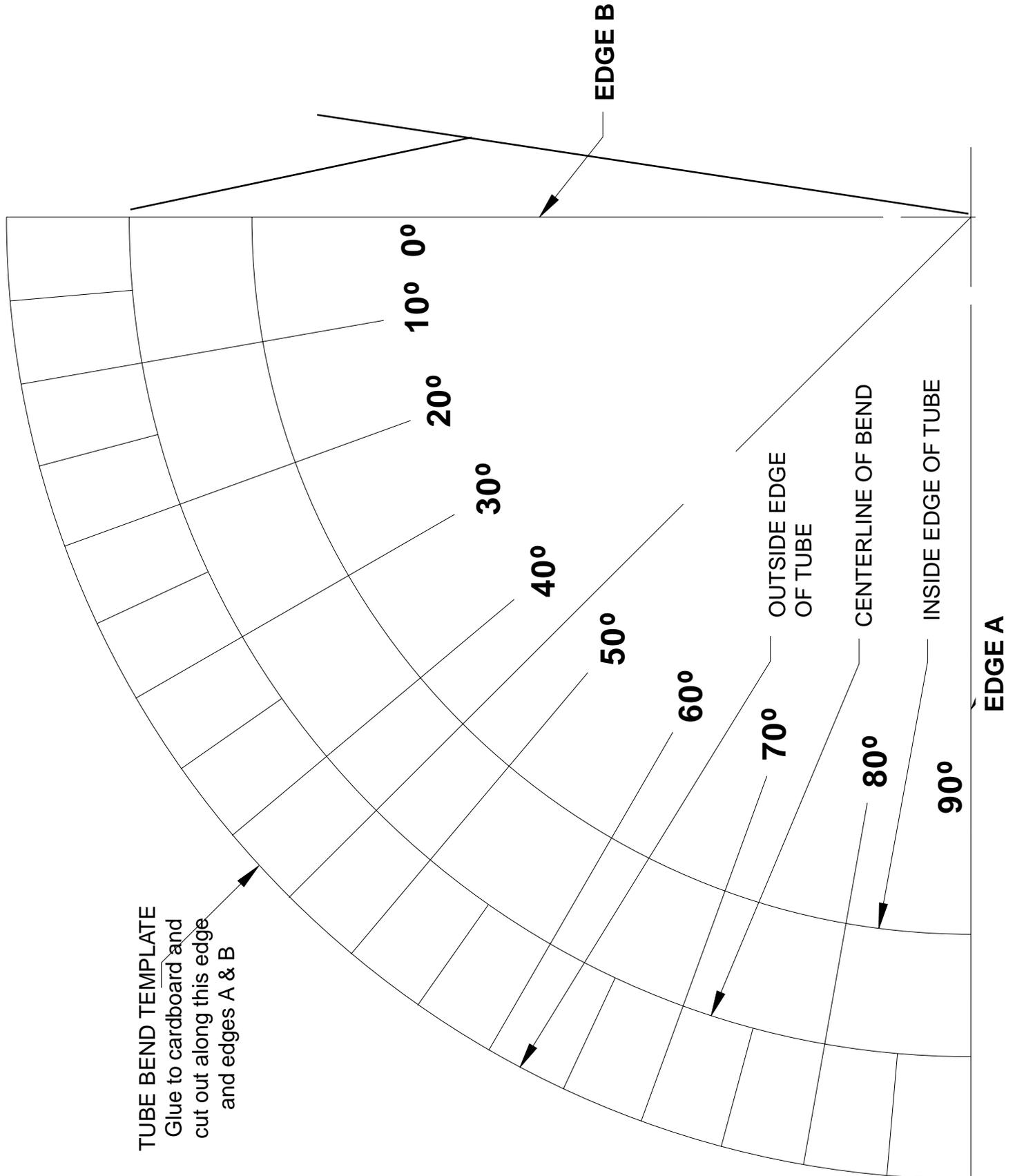
Use a tape measure to determine all the rest of the required dimensions which pertain to your application.

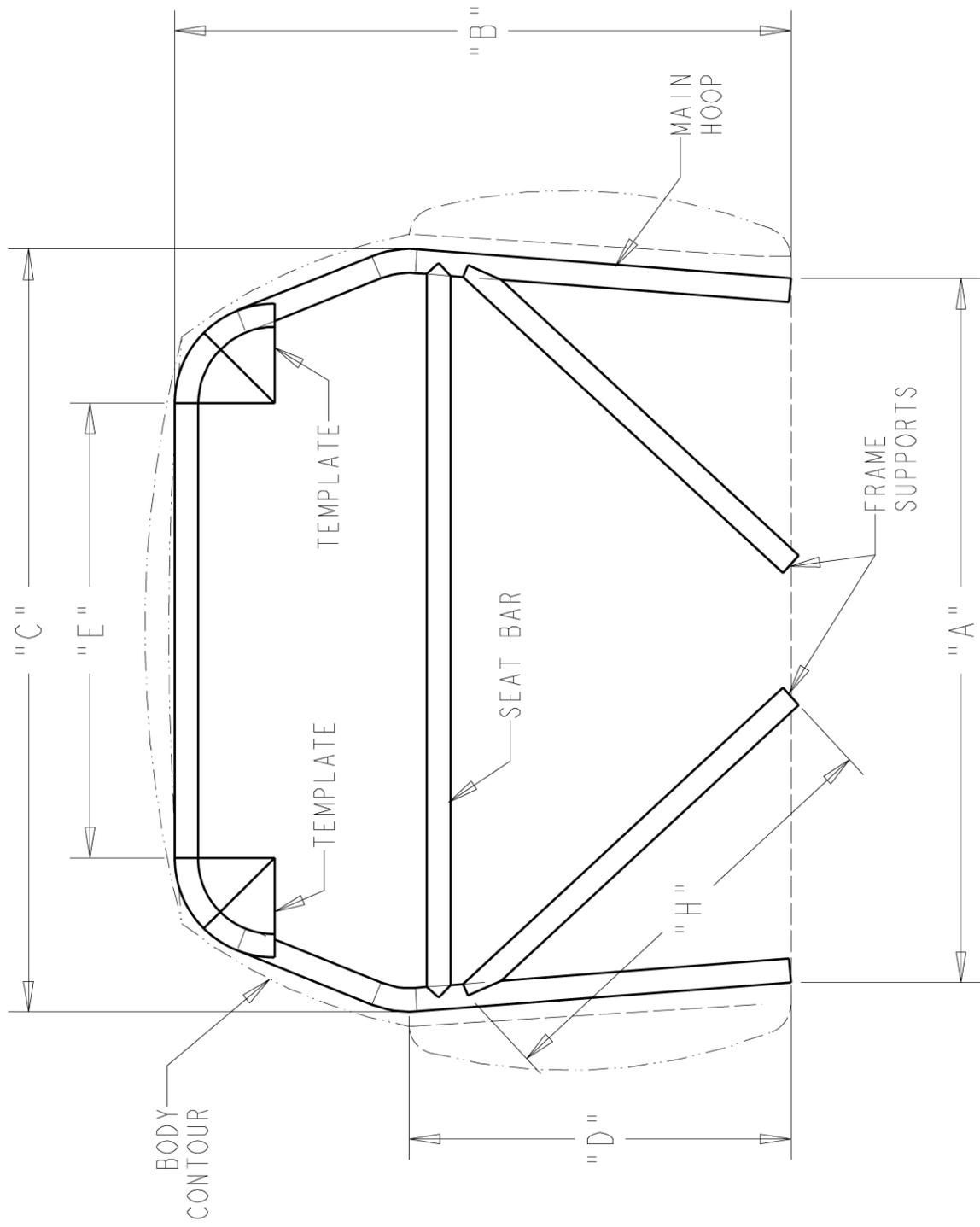
When you are ready to place your order  
Mail or FAX the S&W DATA SHEET only to S&W Race Cars



Note: This distance on your templates should be 6 inches. Because of inconsistencies in output of various FAX machines & printers, you must measure this distance and double check its length. If your templates do not measure 6 inches from edge A to the centerline of the bend please enlarge or reduce it on a photo copier until it does or call S&W and we will send you the correct size templates. Failure to do this could result in an improperly bent roll bar.

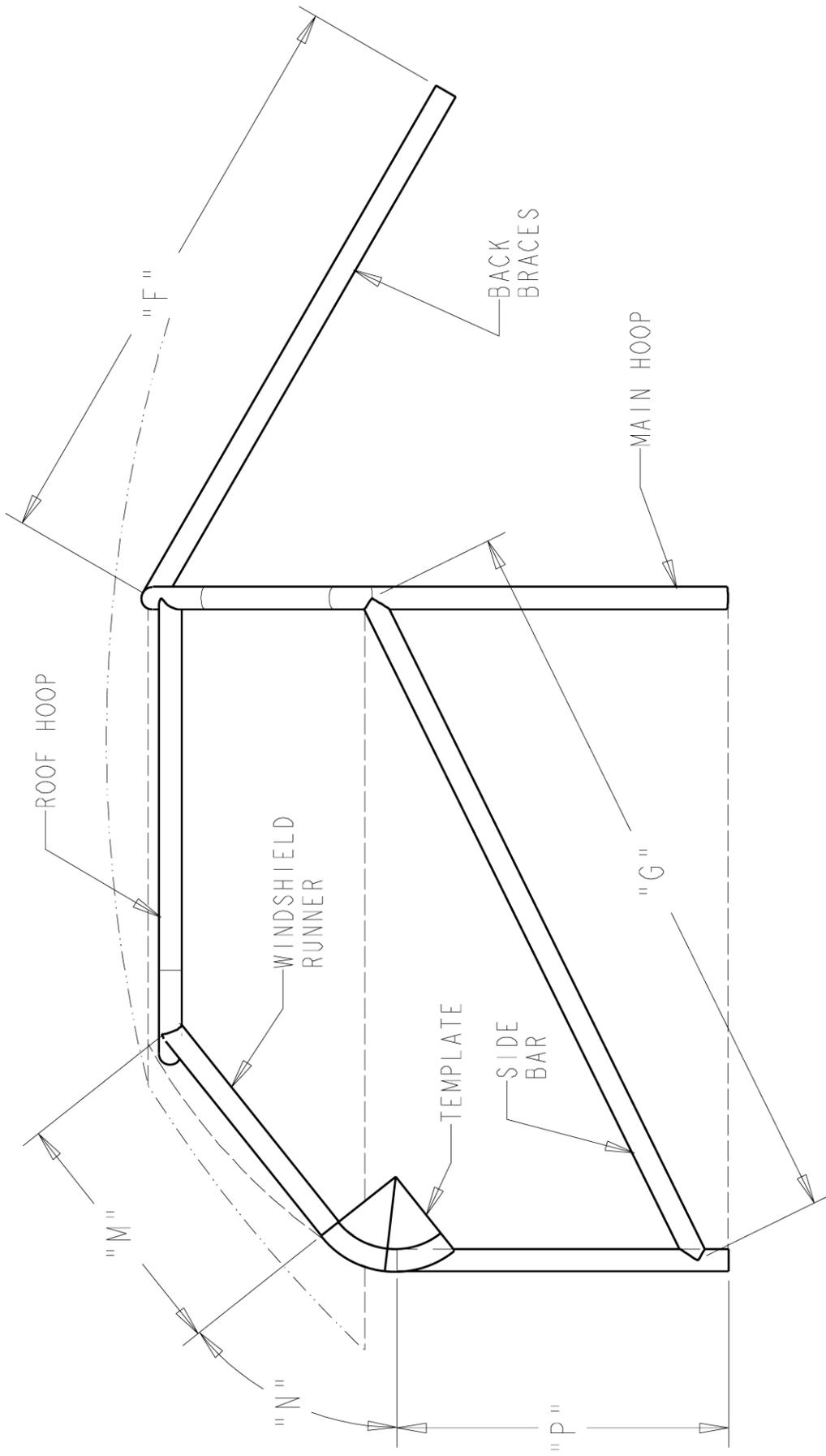
Note: This distance on your templates should be 6 inches. Because of inconsistencies in output of various FAX machines & printers, you must measure this distance and double check its length. If your templates do not measure 6 inches from edge A to the centerline of the bend please enlarge or reduce it on a photo copier until it does or call S&W and we will send you the correct size templates. Failure to do this could result in an improperly bent roll bar.





**FIGURE I**  
**MAIN HOOP**

S & W RACE CARS  
 SPRING CITY, PA



NOTE:  
 WHEN MEASURING FOR  
 AN 8-POINT ROLL BAR  
 MEASURE DIM "G" FROM  
 MAIN HOOP ALL THE  
 WAY TO THE FLOOR

**FIGURE 2**  
**WINDSHIELD POST RUNNER**

S & W RACE CARS  
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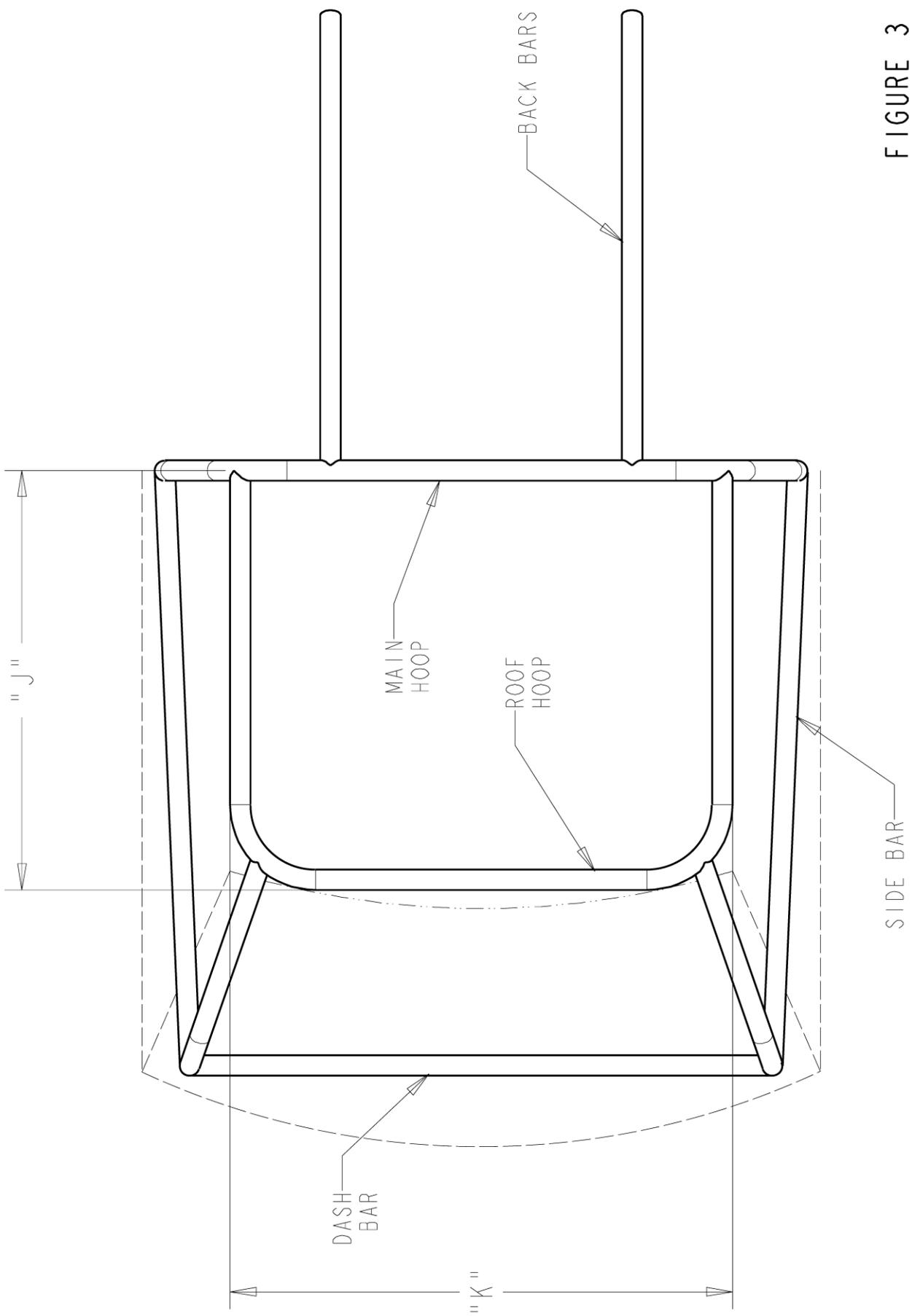


FIGURE 3  
ROOF HOOP

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