BOB BIDONDE

Bob Bidonde is a Mechanical Engineer in the Aerospace Industry, wherein he honed his technical sketching abilities. Some of Bob's designs have gone to the Moon on the Apollo Lunar Module, and some are keeping America safe in the Navy's F-14 Tomcat fighter, and in the Coast Guard's HU-25A Surveillance Aircraft. Along with his wife Kathy, they enjoy touring in their restored 1931 Deluxe Coupe that Bob bought in 1962. In 1993 Kathy bought Bob a 190A Victoria Coupe that Bob is currently restoring to Touring Class judging standards. Kathy says that she wants a Model A with a back seat so they can take family and friends along on tours, but Bob says Kathy really wants the Victoria for more luggage space when they tour to the New England Model A Ford Meets, and occasionally to national meets. Both agree that the Victoria's back seat is ideal for their grandchildren, Scott, Michael and Patrick.

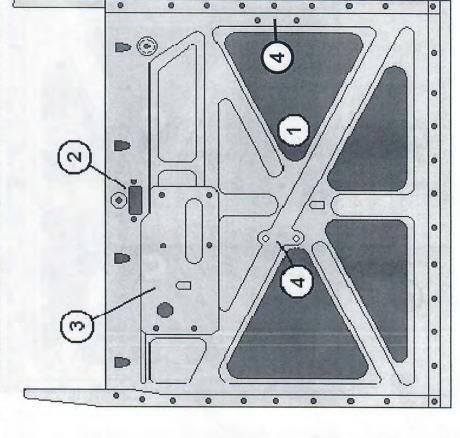
Bob's technical sketches have been published in the Model A Ford Judging Standards and Restoration Guidelines, in the Restorer and Model A News magazines, and in the Model A Ford Club of Long Island's Rumble Sheet newsletter. In the 1970s Bob published "The Model A Shop Notebook," a booklet containing his sketches of various Model A Ford parts and assemblies. Again in 1993 Bob published another booklet, "Installing A Model B Engine Into A Model A." Since 1971, Bob has been an active member of the Model A Ford Club of Long Island, holding the offices of President, Director, Activities Vice President, Technical Vice President, and Editor. Bob is also a member of the Greater Baltimore Region Model A Ford Club, the International Victoria Association, MARC and MAFCA.

Listed below are 33 of Bob Bidonde's drawings:

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190A Victoria Doors

There are 3 variations of in the inner door panels shown as Doors A, B and C in the next few pages. The change dates are unknown. Victoria doors fit the 400A Convertible Sedan, but not all variations may be correct for the 400A.



Distinguishing Features

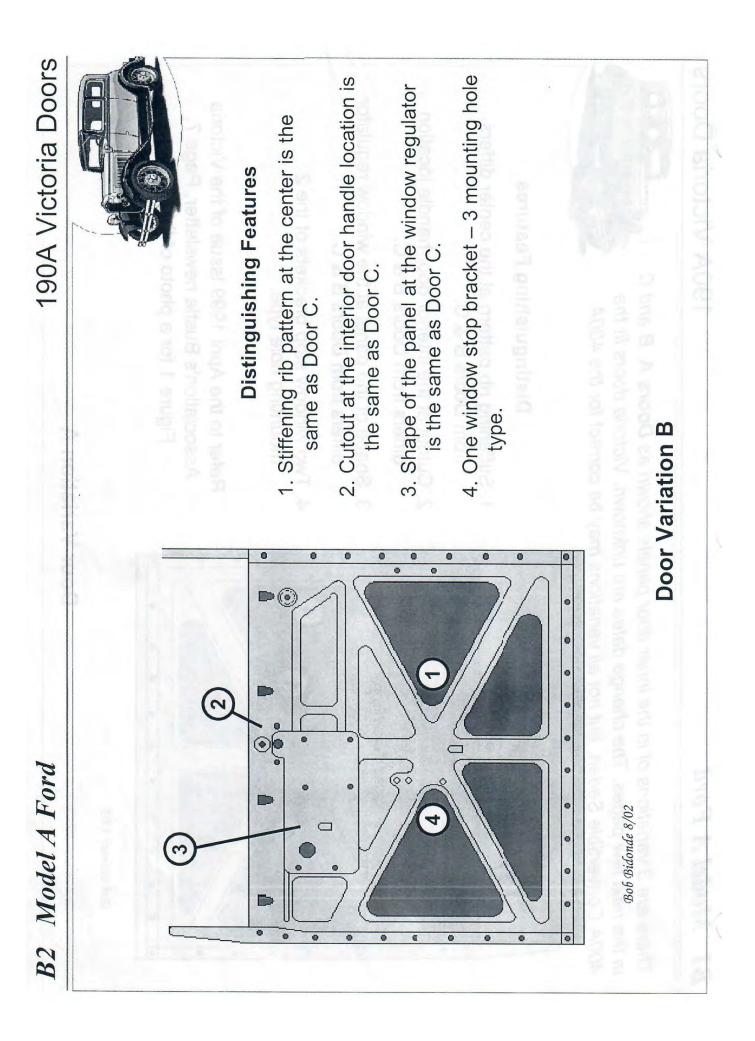
- 1. Stiffening rib pattern at the center differs from Doors B & C.
- 2. Cutout at the interior door handle location с^і differs from Doors B &
- 3. Shape of the panel at the window regulator differs from Doors B & C.
- 4. Two window stop brackets of the 2 mounting hole type.

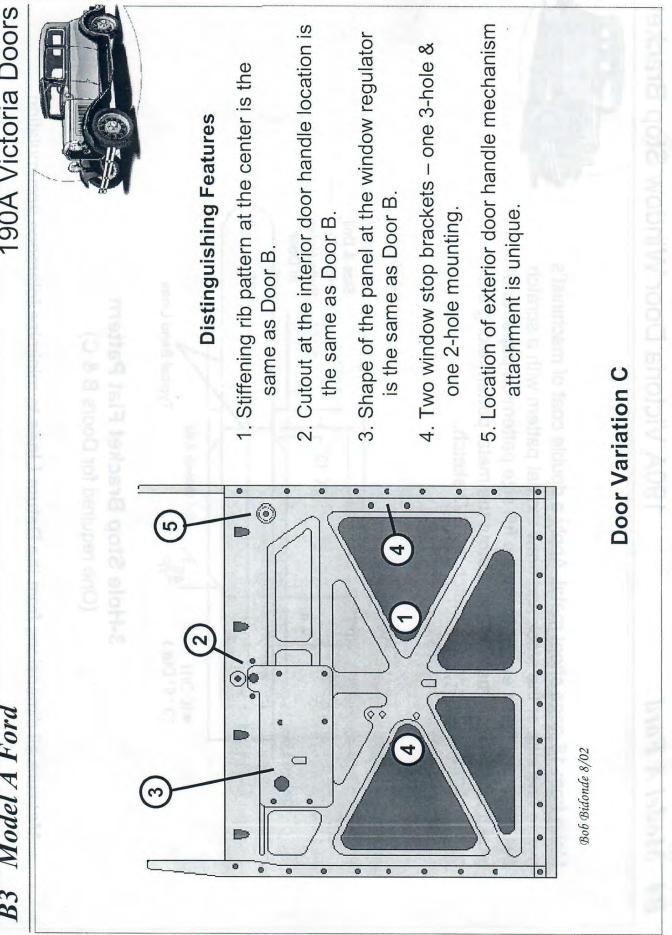
Refer to the April 1999 Issue of the Victoria Association's Bustle newsletter, Page 7,

Figure 1 for a photo of this door.

Door Variation A

Bob Bidonde 8/02





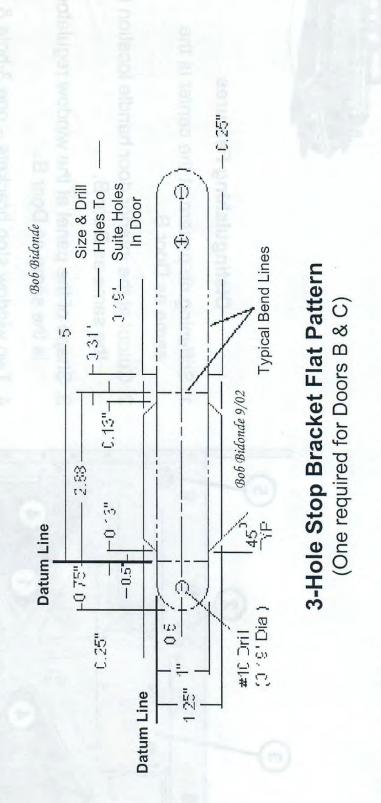
190A Victoria Doors

B3 Model A Ford

| | ord |
|---|-----------|
| F | F'0 |
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| | B4 |

Make from 18-gage sheet metal. Apply a double coat of machinist's dye to one side of the stock and draw the flat pattern with a scratch glue it to the sheet metal stock. Cutout the metal pattern along the awl. You may find it easier to draw a full size pattern on paper and outside lines and bend it to match the 3-D sketch.



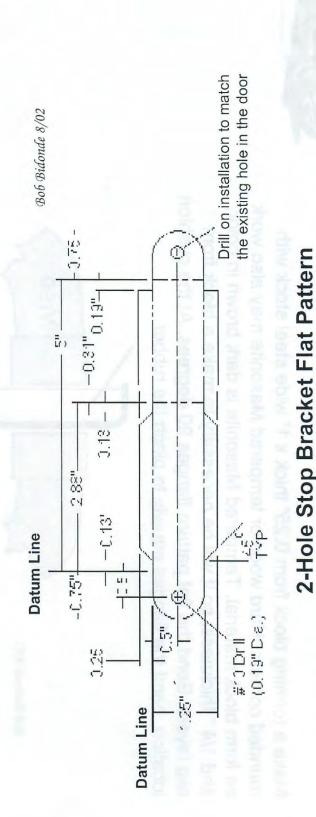


Measure all dimensions from the **Datum Lines** to minimize tolerance accumulation.



Make from 18-gage sheet metal. Apply a double coat of machinist's dye to one side of the stock and draw the flat pattern with a scratch glue it to the sheet metal stock. Cutout the metal pattern along the awl. You may find it easier to draw a full size pattern on paper and outside lines and bend it to match the 3-D sketch.



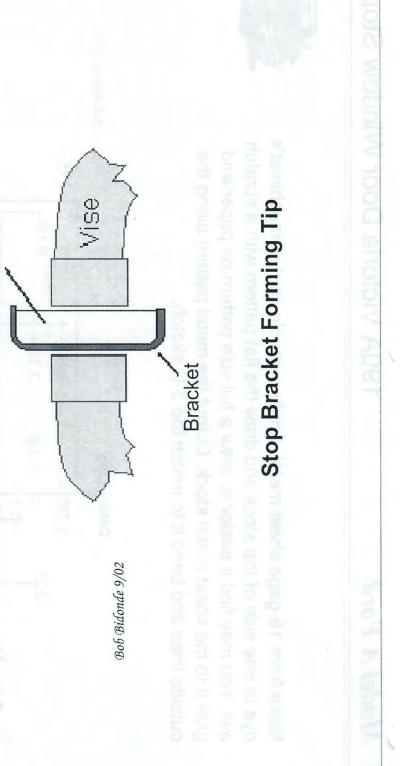


(Two required for Door A & one for Door C. Not used on Door B)

Measure all dimensions from the **Datum Lines** to minimize tolerance accumulation.



two layers. Bend the flat pattern flanges 90 degrees. At the cushion rounded corners. Hard wood or tempered Masonite may also work as form block material. Tempered Masonite is dark brown in color, and 1/4 " thickness, so it will be necessary to make a block from Make a forming block from 0.25" thick x 1" wide steel stock with location, bend the flanges equally to pinch the rubber

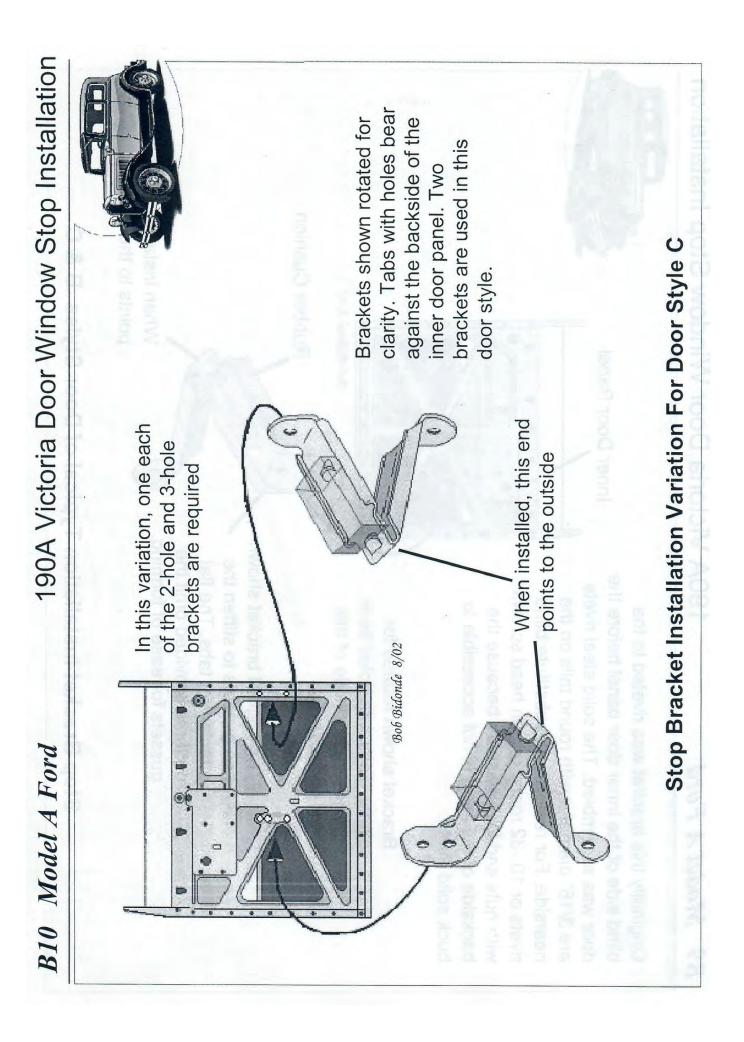


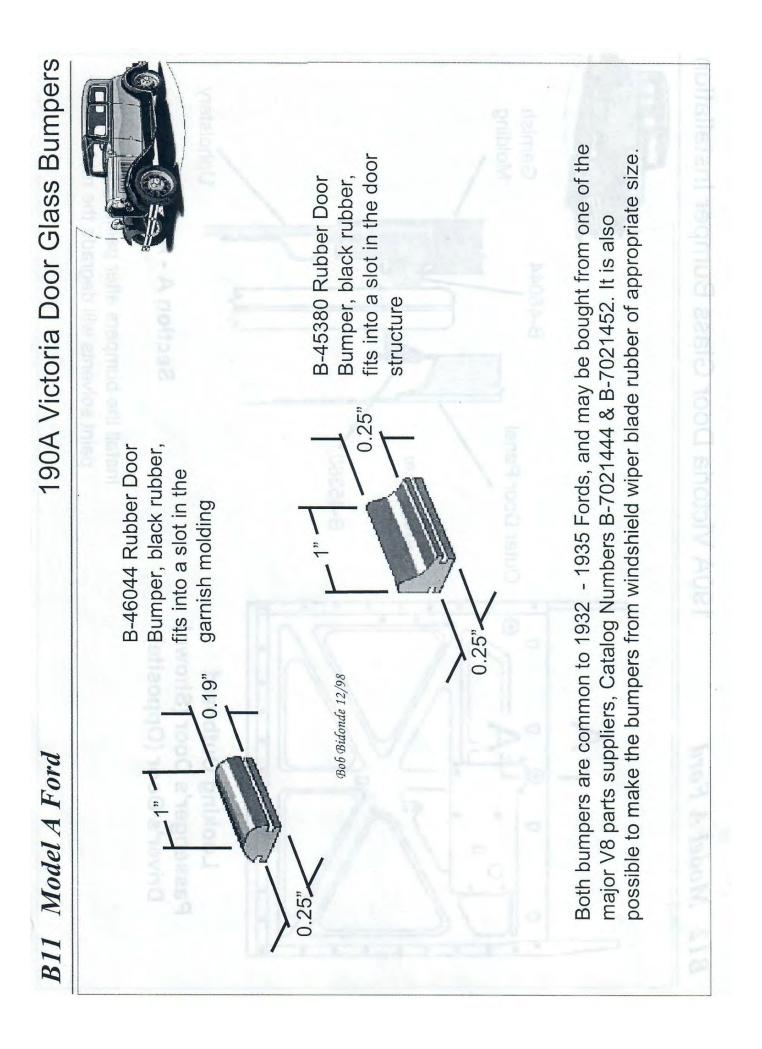
| B7 Model A Ford | 190A Victoria Door Window Stop Assembly |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Make the black r long x 0.5" high. Automotive Hard Foam rubber is n | Make the black rubber cushion (B-46570) 1" wide x 1.38" long x 0.5" high. The cushion appears in the Ford Automotive Hardware & Trimming Supplies, 1928 – 1938. Foam rubber is not suitable for this application. |
| Originally the cushion was secured by two raised tabs in the bracket. In lieu of the tabs, and after painting the bracket, glue the rubber to in place | et, je |
| Fit the bracket to the fitting, clean, prime a after painting becau | Fit the bracket to the door and drill the holes indicated in the flat patterns. After fitting, clean, prime and paint the bracket black. Glue the rubber to the bracket after painting because solvents in the paint will degrade the rubber. |
| | Stop Bracket Assembly (Typical of both types) |

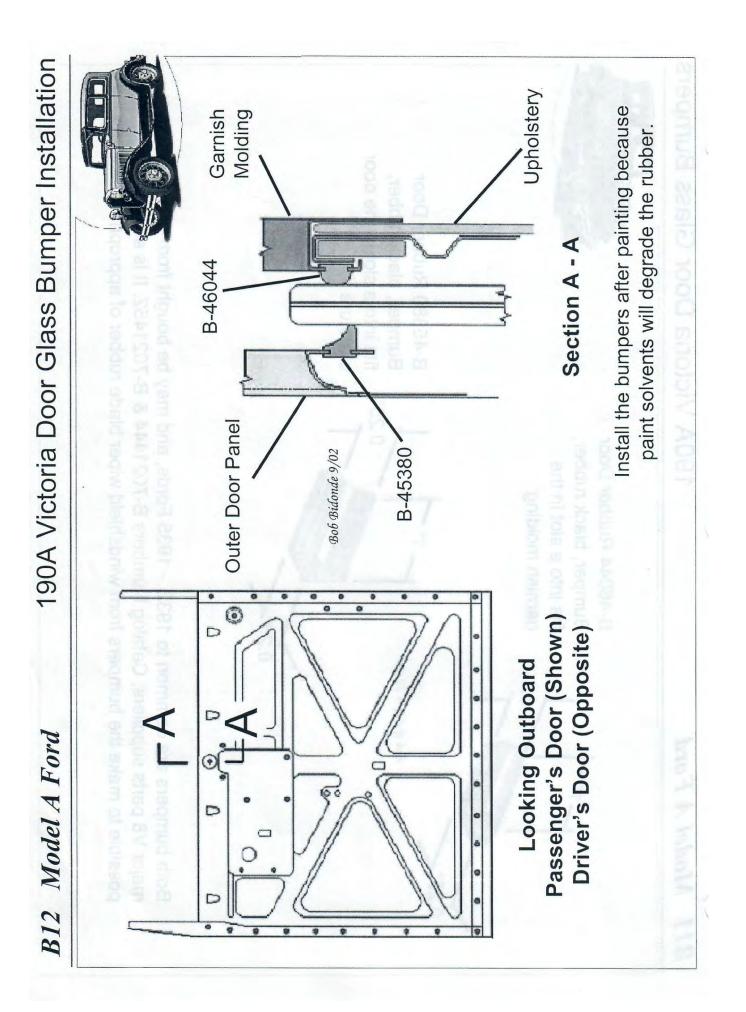
| B8 Model A Ford 190A VICTORIA DOOR WINDOW STOP INSTAllation | w Stop Installation |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Originally this bracket was riveted to the blind side of the inner door panel before the door was assembled. The solid steel rivets are 3/16" diameter with round tails on the nearside. For restoration, substitute blind rivets or 10 -32 round or pan head screws with nuts and lock washers because the backside of the | |
| | 10-32 Brass round head screw, head near side, lock washer & nut |
| When installed, this end when installed, this end points to the outside points to the outside clarity. Tabs with holes bear against the backside of the inner door panel. Two brac are used in this door style. | Bracket shown rotated for clarity. Tabs with holes bear against the backside of the inner door panel. Two brackets are used in this door style. |
| Stop Bracket Installation For Door Style A | An amb wasaum |

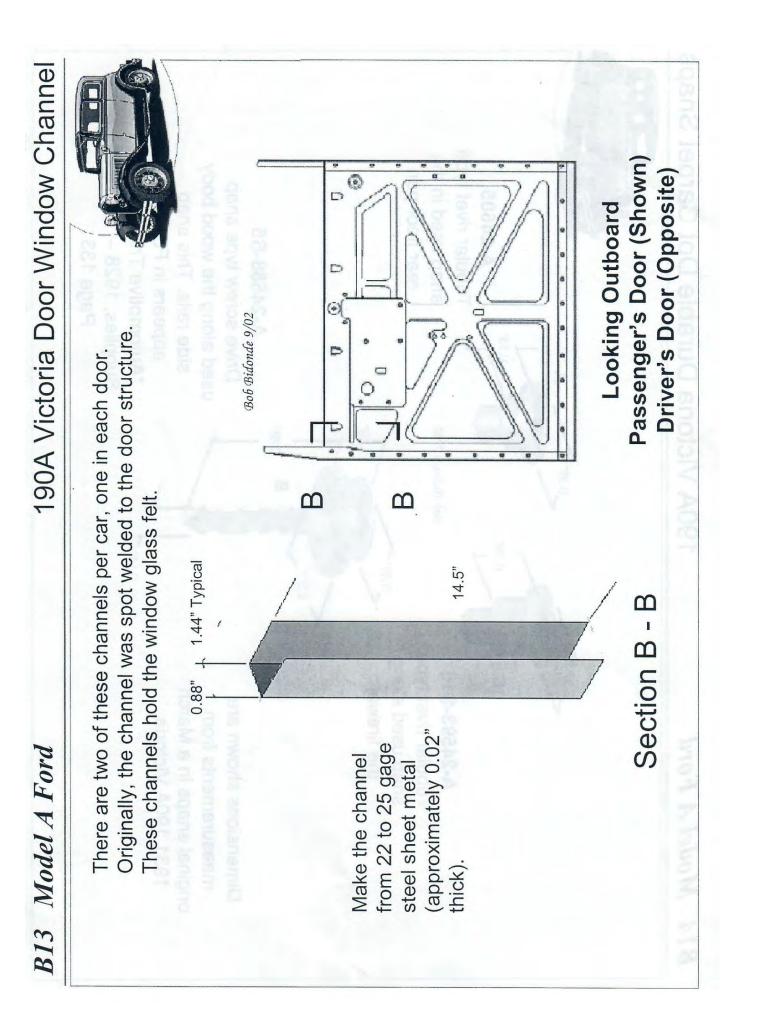
| B9 Model A Ford 19 | 190A Victoria Door Window Stop Installation |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Originally this bracket was riveted to the blind side of the inner door panel before the door was assembled. The solid steel rivets | he Inner Door Panel |
| nearside. For restoration, substitute blind rivets or 10 -32 round or pan head screws with nuts and lock washers because the backside of the inner is not accessible to | |
| buck solid rivets. Bracket shown rotated for | |
| clarity. Tabs with holes bear against the backside of the inner door panel. | Bob Bidonde 8/02 RIbber Cishion |
| The original bracket shown has gussets to stiffen the attachment tabs. The flat | un - |
| patterns provided omit the gussets for ease of forming. | it the when installed, this end points to the outside |
| Stop Bracket Installa | Stop Bracket Installation Typical of Door Styles B & C |
| | |

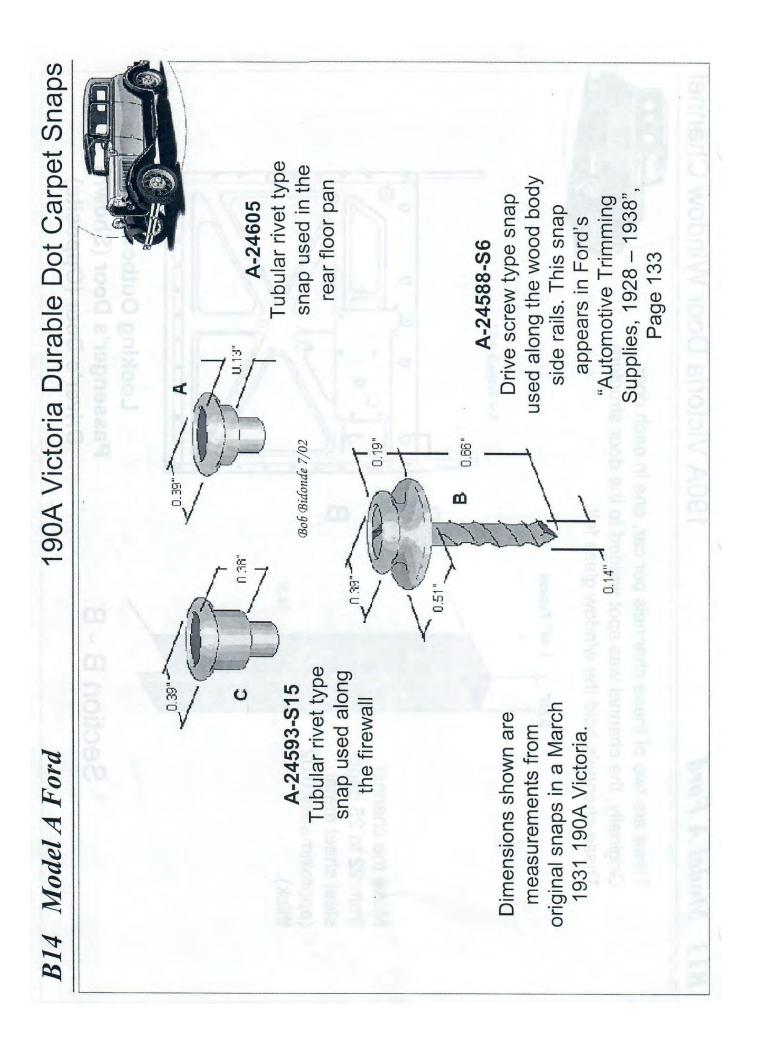
B9

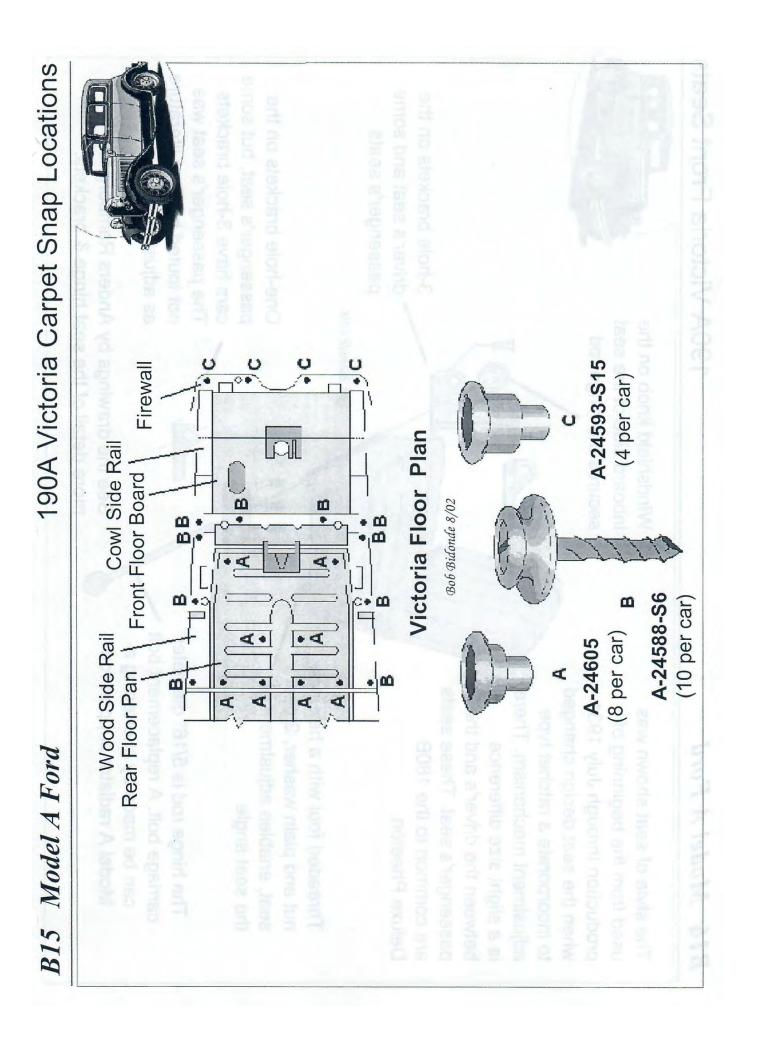




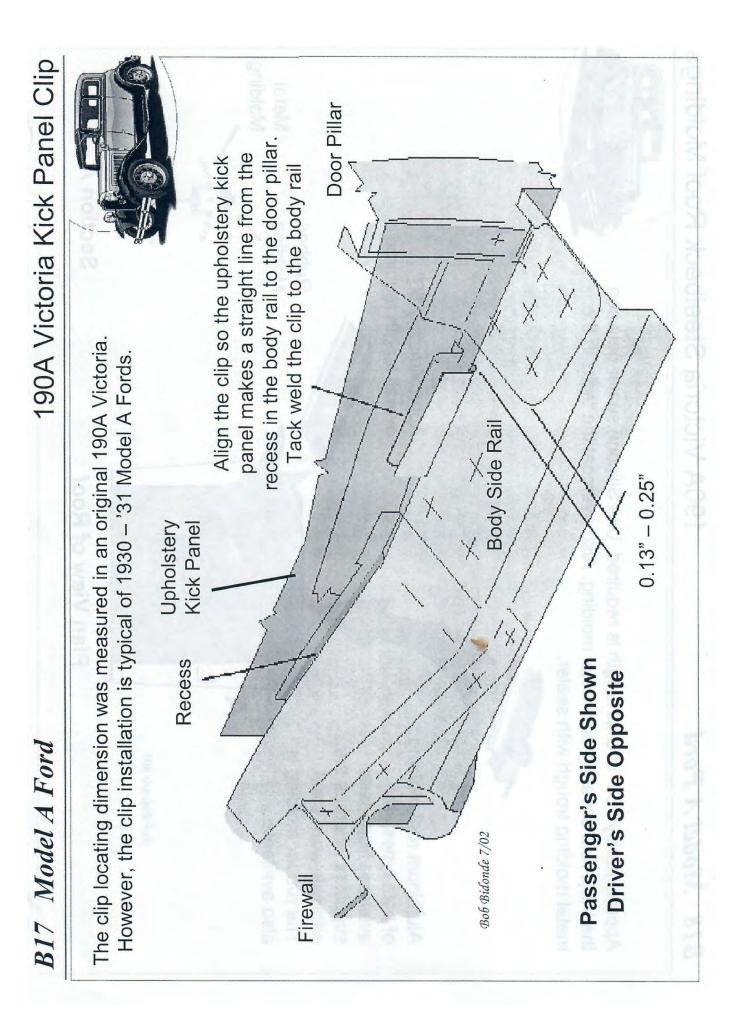








| Threaded foot with a hex lock nut and plain washer, 2 per seat, enables adjustment of the seat angle The hinge rod is 5/16" diameter The hinge rod is 5/16" diameter the reat angle the |
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| can be made by shortening a Model A radiator support rod See the drawings by Anders Ramberg for |





190A Victoria Steelback Roof Moldinas

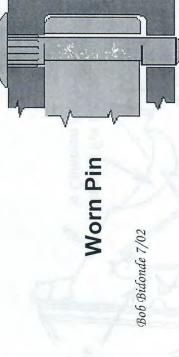


Model A Ford

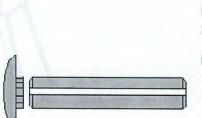


Door Hinge Pin Replacement Tip

A worn pin has a ridge near the bottom that makes pin removal very difficult. If the pin does not budge, try using a rivet gun with a pointed bit. Drive the bottom of the pin upward.



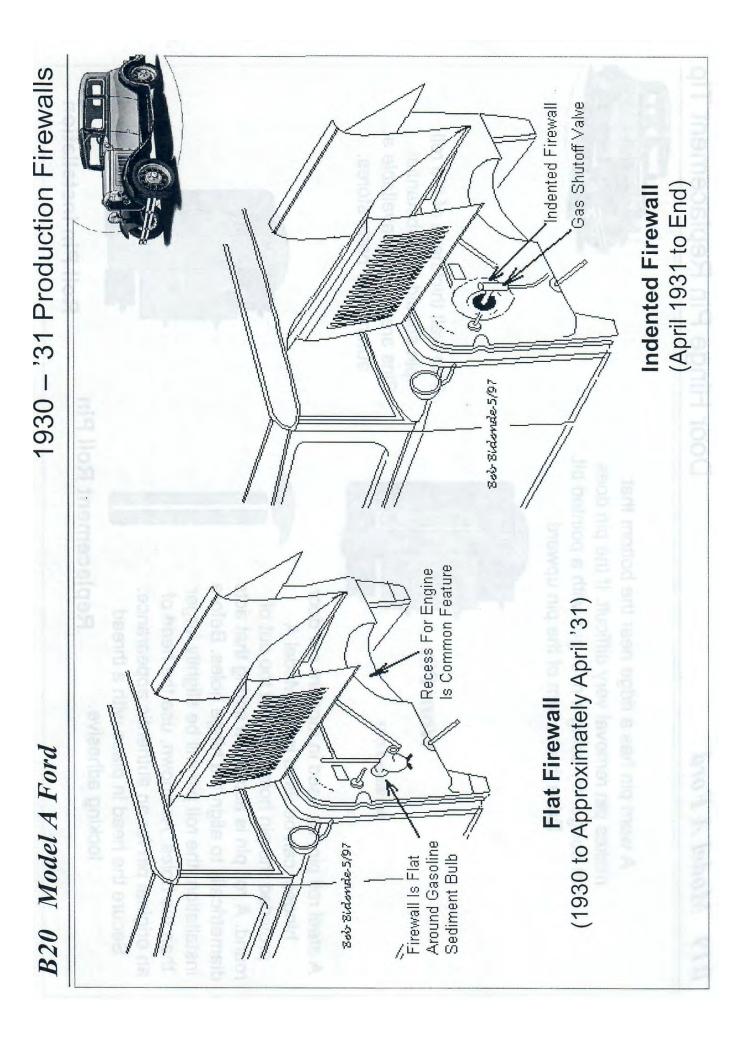
A steel roll pin, as used in modern car door hinges, can be used in the Model A provided the pin holes are not too out of round. A roll pin is actually a spring that acts diametrically to align the hinge holes. Before installation, the roll pin will be slightly larger than the holes. As shown, use the head of an original pin for an authentic appearance. Secure the head in place with a thread locking adhesive.

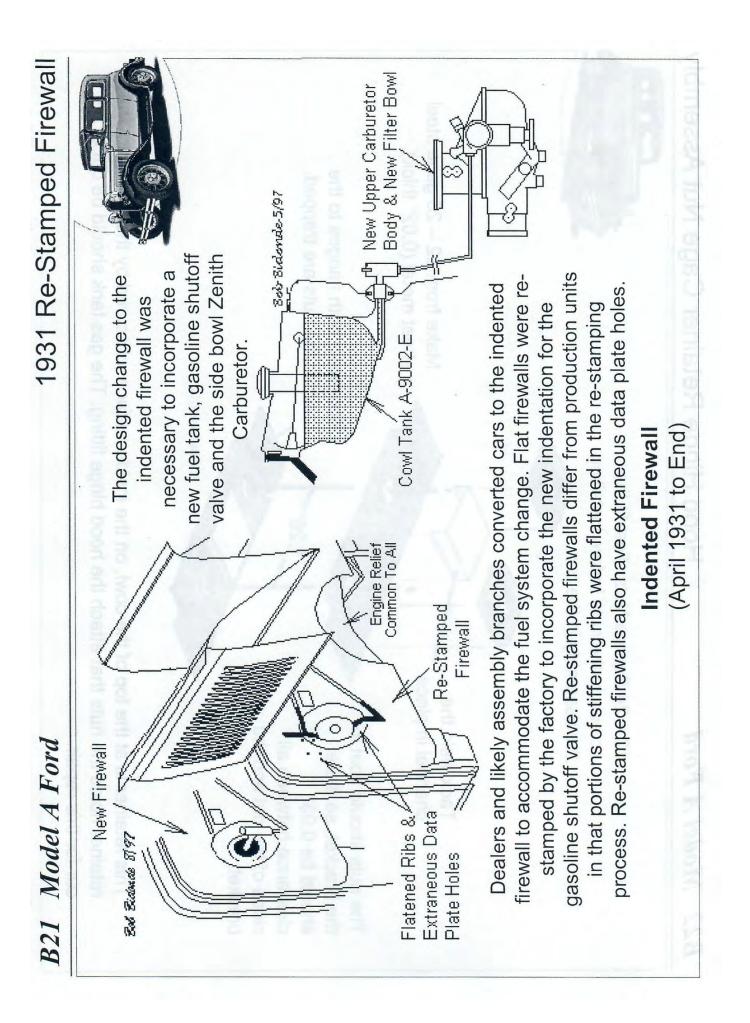


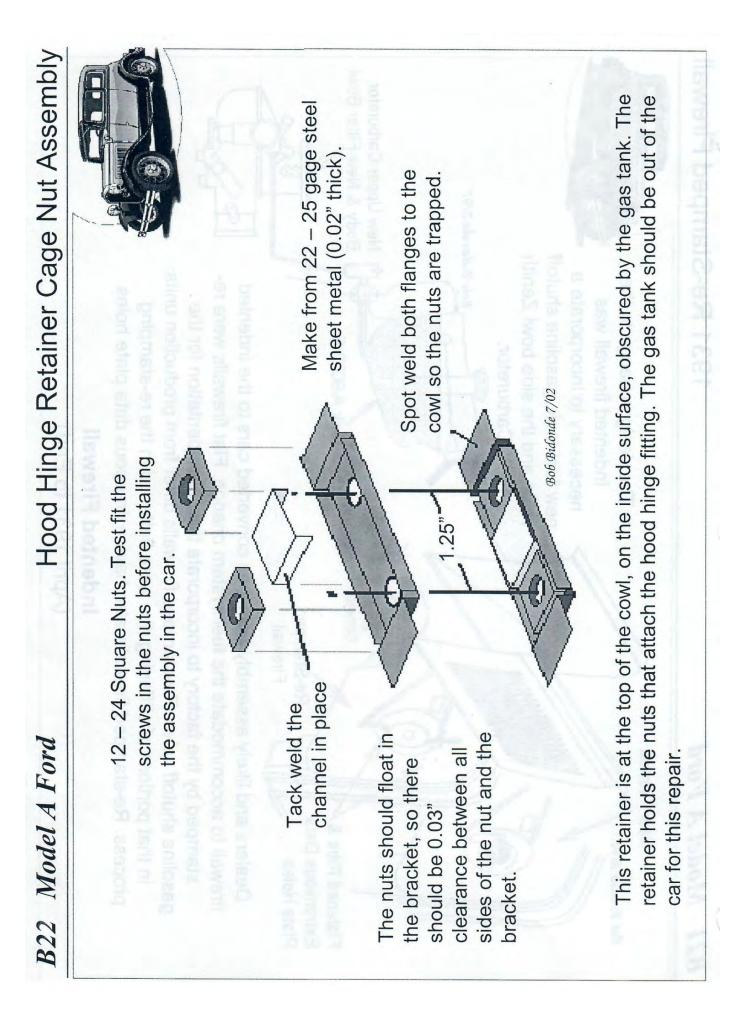


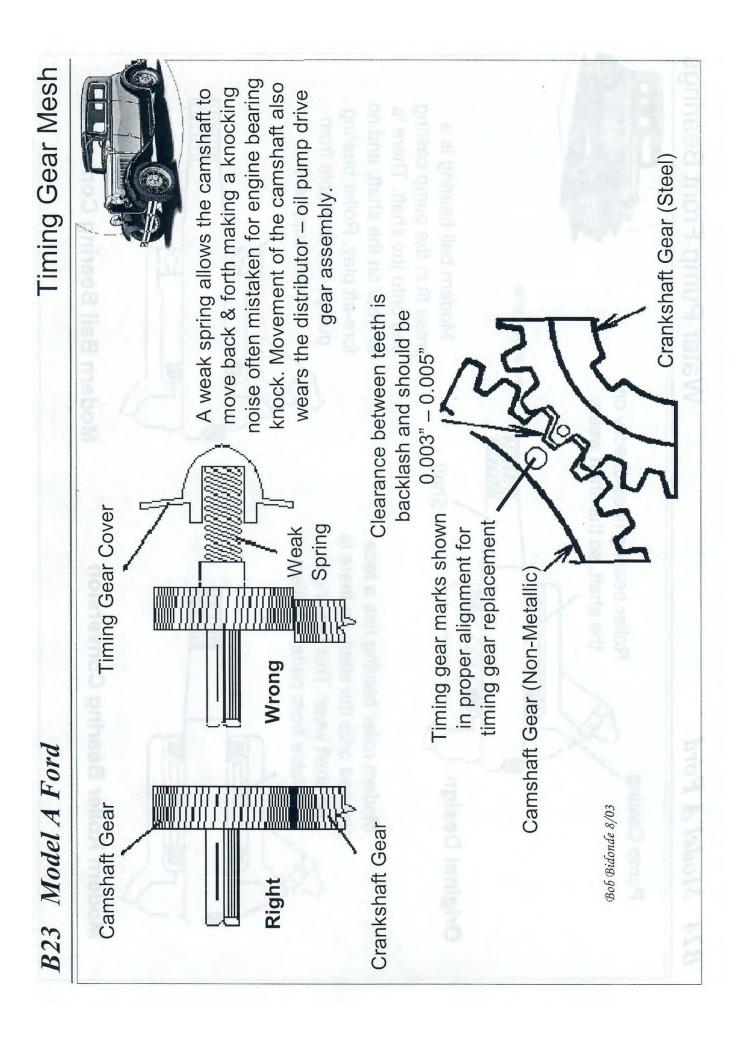
The wall thickness of the roll pin should be substantial. Pins are typically available at automotive parts stores.

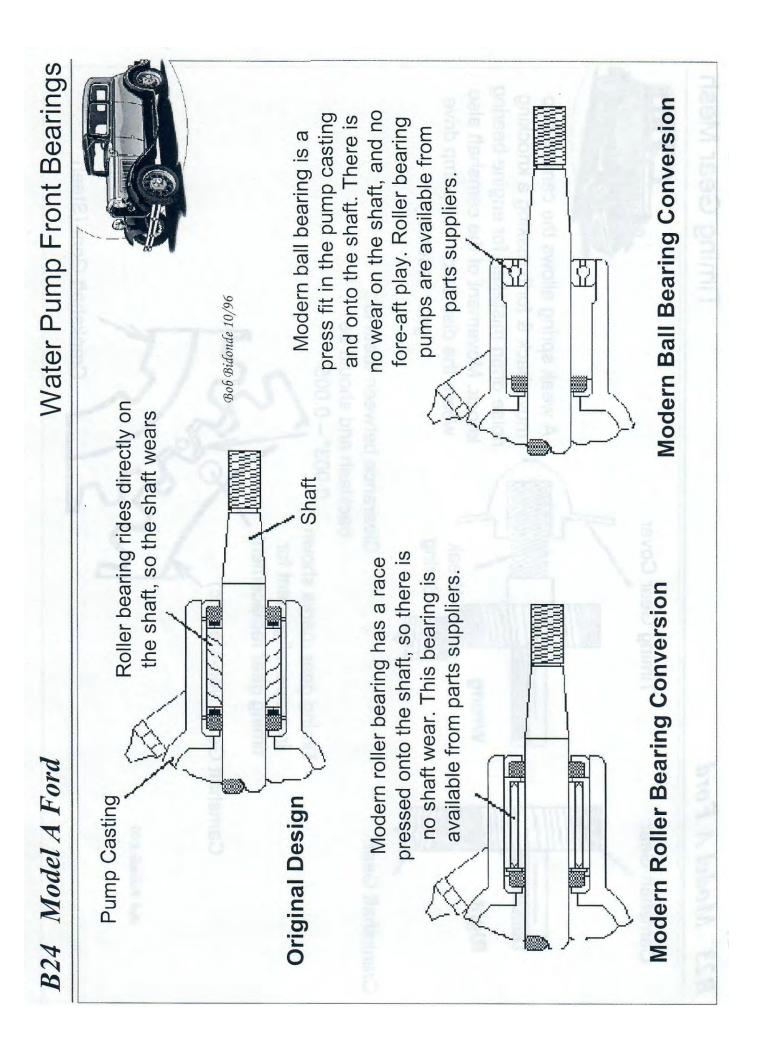
Roll Pin Installation Replacement Roll Pin

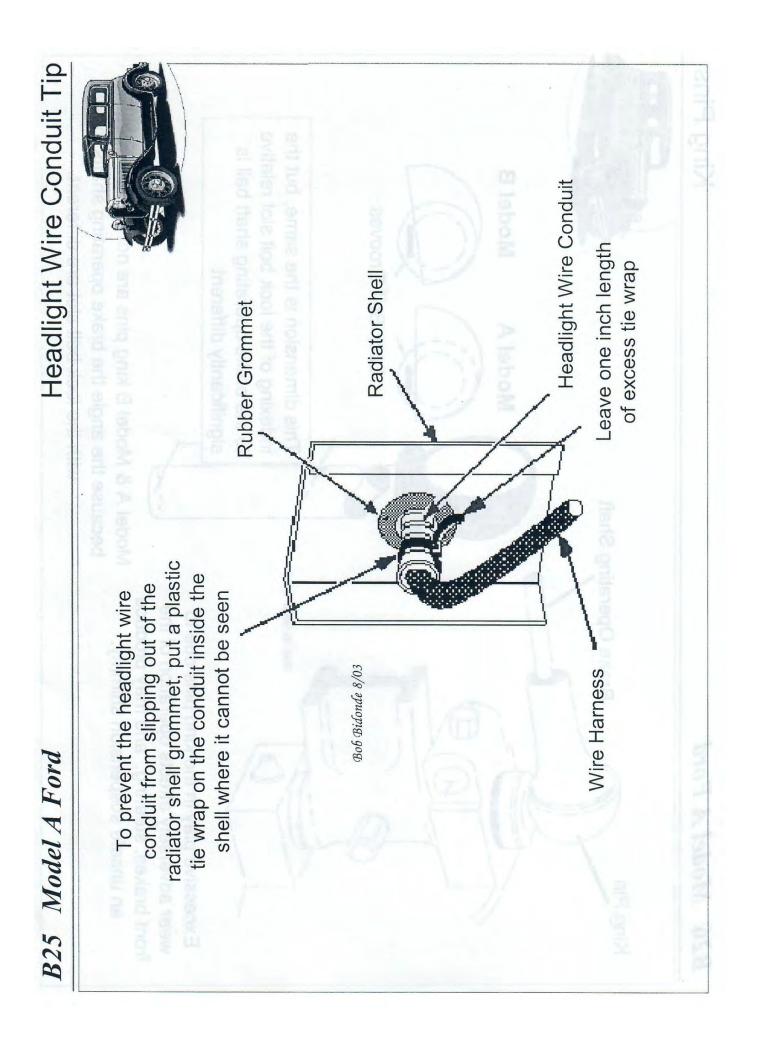


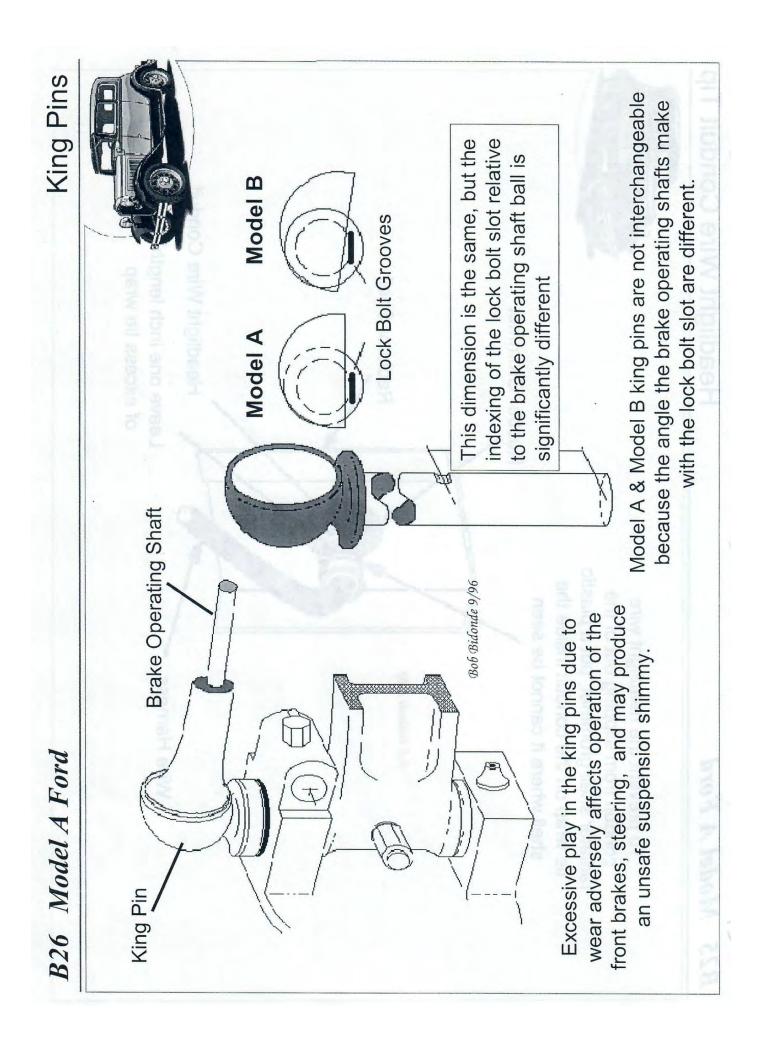


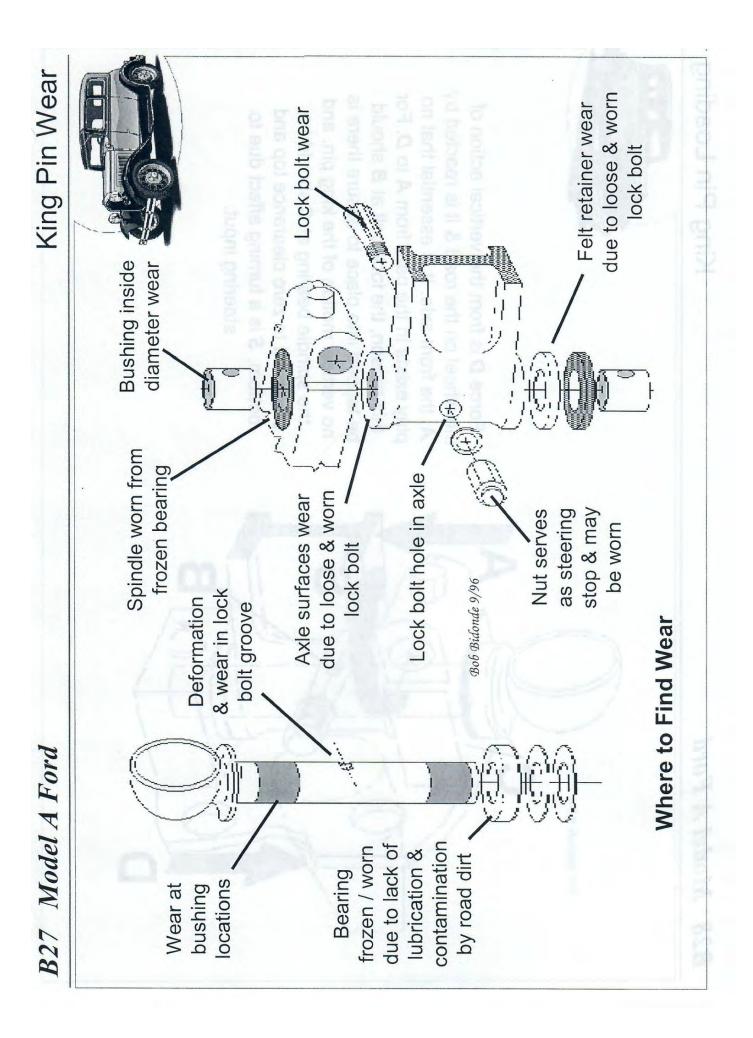






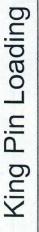






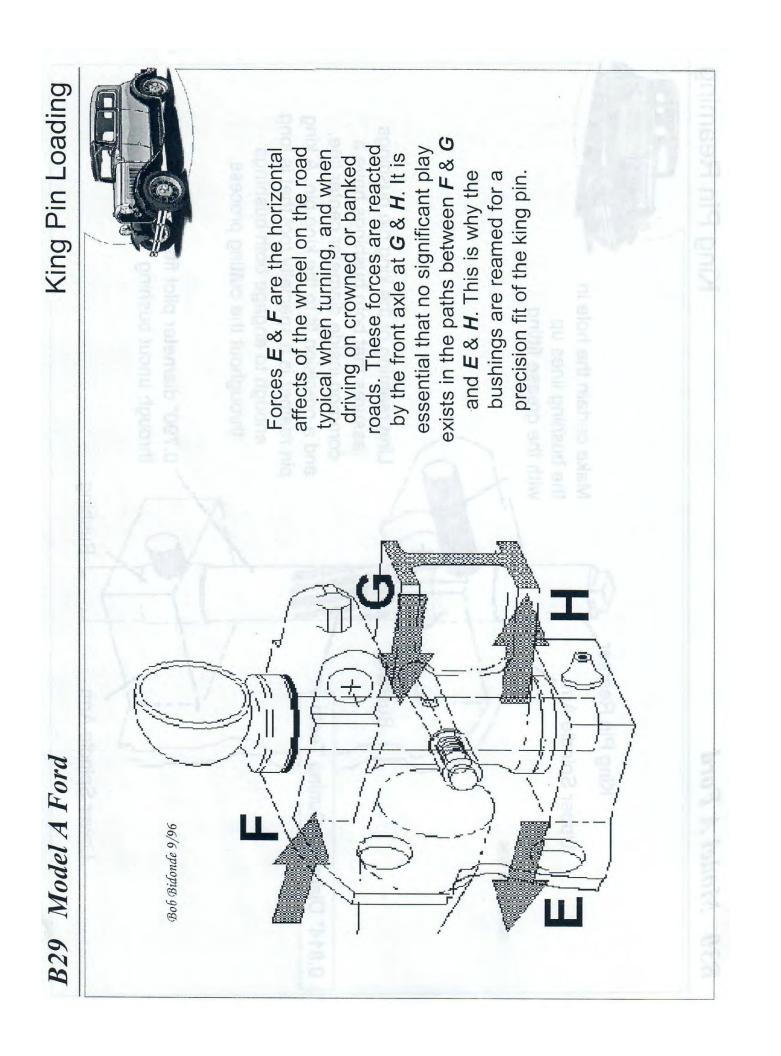


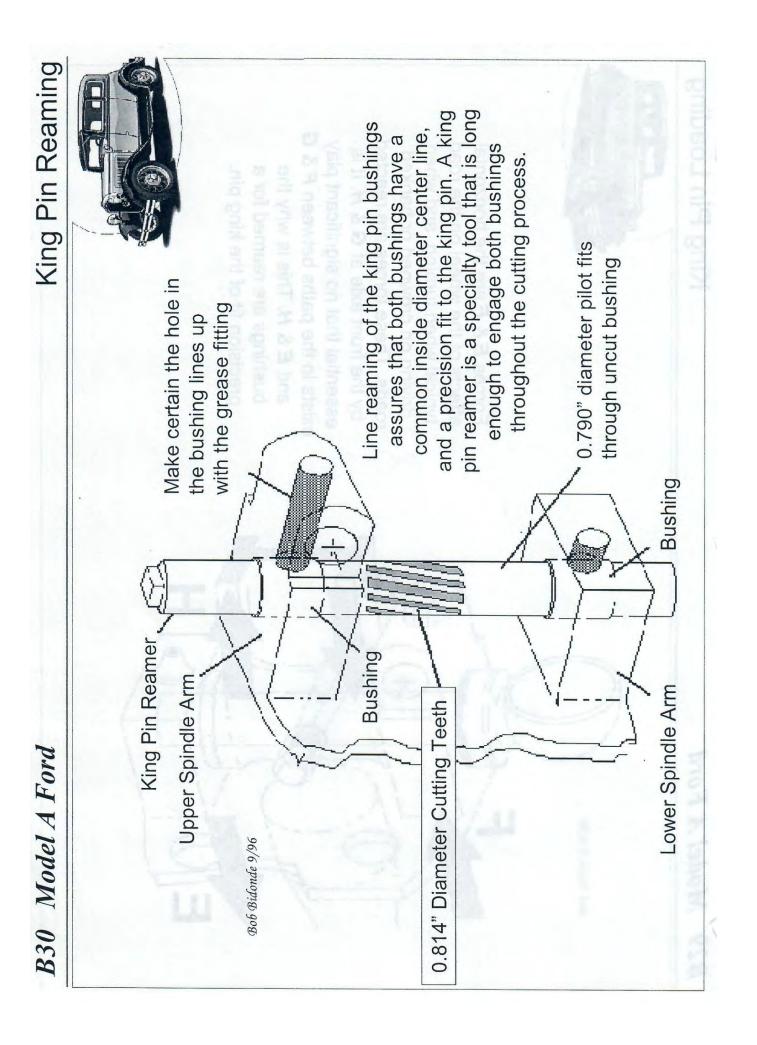
Bob Bidonde 9/96

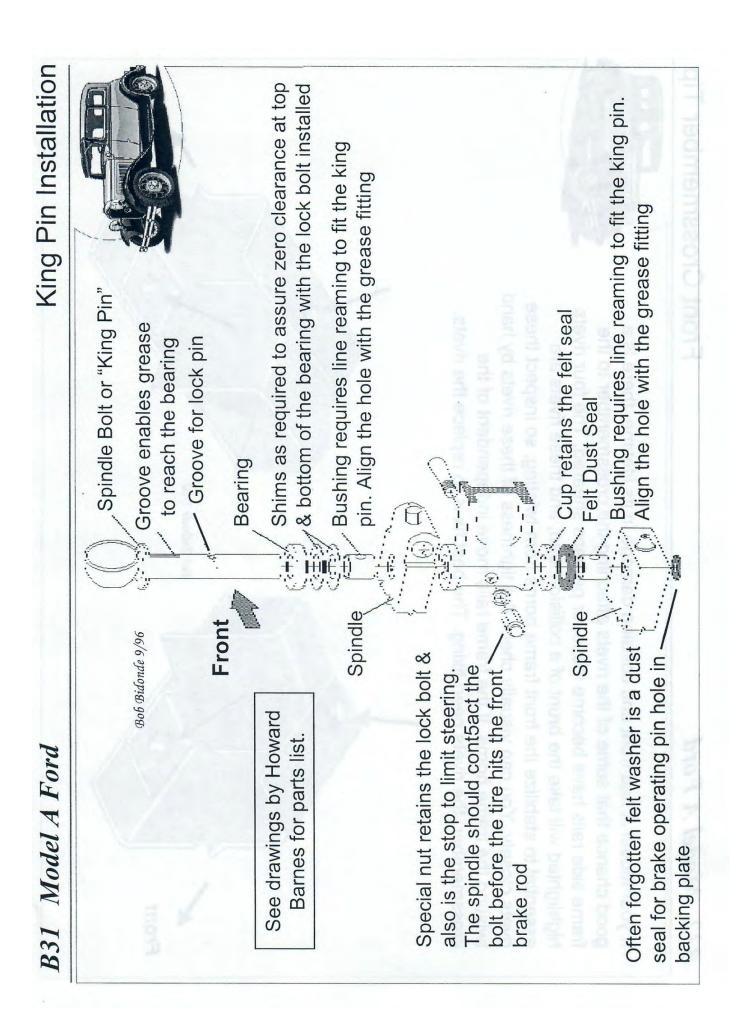




Force **D** is from the vertical action of the wheel on the road & it is reacted by **A**, the front axle. It is essential that no play exists in the path from **A** to **D**. For this reason, the lock bolt at **B** should be tapped into place to assure there is no vertical motion of the king pin, and the spindle bearing at **C** should be shimmed to zero clearance top and bottom. **S** is a turning affect due to steering input.







B32 Model A Ford

Front Crossmember Tip

rivets closely. You can visually check the tightness of these rivets by hand essential to stabilize the front frame horns from twisting, so inspect these frame side rails have become loose, or perhaps sheared. The four rivets crossmember, the rivets need fixing. The best fix is to replace the rivets. If your Model A had front end collision damage in its lifetime, there is a good chance that some of the rivets attaching the crossmember to the highlighted will take the brunt of a collision load, and these rivets are twisting the frame horns. If the frame rails move independent of the

