



Part #201148

**INSTRUCTIONS FOR SNOOT FRONT A-ARM COMPACT 1-5/8" FRAME  
Kit# 102017**

Item	Quantity	Part #	Description
1	4	191168	Bracket, A-Arm lower
2	2	191011	Bracket, A -Arm lower cap
3	2	121322	Forward strut
4	-	-	Item# not used
5	2	191012	Bracket, arm upper
6	2	191115	Frame end cap
7	1	121328	Rack & pinion cross member
8	8	191116	Suspension tabs
9	2	191013	Rack & pinion mounts
10	2	121228	Front snout frame rail
11	2	131168	Tube 1 1/4 x .083 x 12
12	2	131156	Tube 1 1/4 x .083 x 24
13	4	231112	Locknuts 1/2 x 20
14	1	201313	Blueprints
15	2	171310	Decals
16	4	231411	Bolt 1/2 x 20 x 2 1/2 #8
17	8	231210	Misalignment bushings 1/2

**YOU NEED A FAIRLY LEVEL GARAGE FLOOR TO OBTAIN GOOD RESULTS**

**NOTE: Items 11 and 12 are combined to two pieces - 36" long.**

This kit provides a frame with all of the brackets and roll cage supports to put 71-72 Pinto "A" arm front suspension on your car. Your car must have existing frame to the fire wall and a roll cage in order to use this kit.

- 1 First you must determine exactly where the stock front axle (spindle) centerline is located on your car. Measure from this pint back to the rocker panel and make a reference mark. This way you will know where the front axle centerline is after the frame has been removed.
- 2 Locate the body off of the floor so it is positioned at the new ride height. Block the rocker panels and rear of the frame so the car will be held steady. You need 3" of ground clearance from the front bumper to the tire and one foot (12") behind the tire. Do not let your car sit too low.
- 3 Remove the front body work, stock frame and suspension. The engine should have been removed before you started. You will need to run a string centerline from the rear of the car to a point forward of the stock frame. You can make a front string mount out of two pieces of angle iron tacked on the rear of the car frame under the floor. They should run forward and form a "V" at least 18" ahead of the stock axle centerline. Tack them together and weld a post straight up about one foot (1') high.

Move the post right and left to center the string perfectly between the rocker panels. The further to the rear you attach the string perfectly between the rocker panels. The further to the rear you attach the string, the more accurately you can center it. Use a large square off the floor to make measurements from the string centerline.

- 4 Position the new frame rails so that they are parallel to the floor 12" off the ground (measured from the ground to the

bottom of the frame). The new frame rail has a 9" long leg bent up about 3 degrees to make attaching to your existing frame easier. Depending on how wide your frame is, you may have to fabricate some mounts for the new frame. The rails should be parallel to each other at the correct width and equal distance from the string centerline you established.

- 5 Measure forward from the marks on the rocker panels and draw a line across the floor (90 degrees to the string centerline to represent the front axle centerline. Use a large square or plumb bob to put a line on both sides of the new front frame rails that represents the front axle centerline. All of your brackets will locate off of this line.
- 6 Next, install the rack and pinion mounts to the rack and pinion cross member. Determine the center of the cross member and mark where the brackets go according to the dimensions on the line blueprint. Tack the brackets to the cross member so that they are at the correct dimensions, 90 degrees to the cross member, and both at the same height. Cut the legs off the cross member to locate frame. Once the cross member is in position install the (4) small gussets as shown on the print. You may have to grind the gusset to allow clearance for the rack Tack weld the cross member under your frame rails at the correct location. It may be necessary to grind on the rack and pinion brackets to make them fit the cross member properly.
- 7 Next, install 4 suspension tabs that attach to the cross member. The center line of their hole should be even with the top of the rack and pinion bracket. Install the brackets at the correct angle and spacing according to the blueprint. You will have to trim about  $\frac{1}{2}$ " of material off the rear bracket in order for it to fit under the cross member.
- 8 Determine how long your frame needs to be to mount your front body work and saw it off. Cap the ends with the frame end caps.
- 9 Install the upper "A" arm mount on top of the frame per the blueprint.
- 10 Install the lower "A" arm brackets per the blueprint. The centerline of the hole is even with the top of the rack and pinion bracket. Weld the "A" arm bracket cap to the lower "A" arm bracket. (The 1" leg goes on the bottom).
- 11 Install the remaining suspension tabs per the blueprint. Their hole center line is even with the top of the upper "A" arm bracket. The easiest way to install the forward roll cage struts is to make a little bracket that holds the suspension tabs in place and clamp it to the upper "A" arm bracket. Fit the brackets and tube together, grind a little on each until it fits. The brackets will be rotated differently on the tube because the tube crosses them at an angle.
- 12 Recheck all your dimensions and final weld everything.
- 13 You will need kit #181414 which is a front control arm. Use it with stock or ALSTON lower "A" arms.
- 14 Use an ALSTON steering column kit 181411. You will also have to grind some clearance on the forward lower "A" arm mount on the driver's side for the lower tube of the steering column.
- 15 The 4  $\frac{1}{2}$  x 2 bolts and 4  $\frac{1}{2}$ " locknuts are used in the upper and lower shock mounts to mount the shocks. The mis-alignment bushings are also used in the shock mounts. One goes on each side of the shock bearings to fill the gap in the shock mount bracket.
- 16 You need ALSTON it #181411 to replace the tie rods on the steering box since they will be the wrong length.
- 17 Purchase "A" arms from ALSTON (#181424 upper, #181423 lower). Use #181425 if you have header clearance problems.

**WARNING:** Do not tie your car down by the rack and pinion cross member. The movement during towing may cause this part to fail. The addition of a tie down bracket to the frame rail will make holding the car in the trailer easy.

Should you need any help call our tech support line at 847-395-3500 and we will be happy to help you.

Sincerely,

**THE TEAM AT ALSTON RACE CARS**