



# S&W Race Cars and Components, Inc.

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**CAUTION!!!** - *The most important requirement for a successful installation of this, or any, S&W chassis component is that you take your time and use good common sense. Check & recheck all measurements before cutting or welding. If at any time before or during the installation you have any questions - STOP - and call our tech line at 610-948-7303 and we will gladly explain in more detail any step in the installation.*

## **Please read complete instructions thoroughly before beginning! Installation Instructions for part # 40-238 Wishbone Kit.**

### **Please read all instructions in full before beginning installation**

This kit contains chrome-moly tubing which will require the use of a TIG (heli-arc) welder for proper installation.

- 1) Level the car from front to back and side to side.
- 2) Position the rear housing in the car at ride height ( with the 4-link installed ) and the rear housing centered from side to side.
- 3) Assemble one rear housing to wishbone brackets ( the brackets that are cut straight) on each side of the 5/8" rod end, securing them in place with a 5/8" x 2" bolt and nylock ' nut.
- 4) **Tack weld** the assembled housing to wishbone brackets to the center bottom of the rear housing.
- 5) Thread the male slider tube and 5/8" jam nut onto the 5/8" rod end. **Note: you should have at least 3/4 of the threads of the rod end threaded into the slider tube and jam nut.**
- 6) Install one front crossmember mounting bracket ( the brackets that are rounded at one end ) on each side of both 1/2" rod ends securing them in place with a 1/2"x 1-3/4" bolt and nylock nut. **Note: trim the brackets as needed to mount on your 4-link lower front crossmember before installing them on the rod ends.**
- 7) **Tack weld** the front crossmember brackets in place just inside the 4-link, on the lower front crossmember. **Note: you can mount the brackets so the wishbone will mount behind or under the front crossmember**
- 8) Thread the 1/2" threaded tube ends and jam nuts onto each 1/2" rod end. *Note: you should have at least 3/4 of the threads of the rod end threaded into the threaded tube ends and jam nuts.*
- 9) Slide the end of a side tube with the bend on it onto each threaded tube end. **See drawing for side tube locations.**
- 10) Slide the female slider tube over the male slider tube, positioning it in the middle of the travel.
- 11) Locate the side tubes on the slider tubes, making sure that both the slider tubes and the side tubes are on the same plane, then mark and notch the side tubes as needed for mounting them on the female slider tube. **See drawing.**
- 12) **Tack weld** the side tubes in position on the female slider tube and the threaded tube ends.

- 13) Cut and notch the crossbrace tube so it will mount on the connecting points of the side tubes and the threaded tube ends. **See drawing for correct placement of the crossbrace.**
- 14) **Tack weld** the crossbrace in position.
- 15) With the drive shaft and all suspension components installed, move the rear housing up and down through it's travel, checking for binding and interference.
- 16) If all clearances are okay remove all the rod ends from the brackets and tube ends.
- 17) Finish welding all the brackets and threaded tube ends.
- 18) Reassemble and install the welded wishbone.

**If you have any questions during or after the installation of your wishbone kit, please call S&W Race Cars' tech line at (610) 948-7303.**

***Note: These instructions are for the installation of an S&W Race Cars wishbone kit on a 9" Ford housing. If you are using a 12 bolt, a Dana or another type housing with a cast center, you may have to alter the installation process. Please call for further instructions if you are using one of these housings.***

## **Parts List For Wishbone Kit Part # 40-238**

<u>Qty.</u>	<u>Part #</u>	<u>Description</u>
2	40-2381	Side Tube
1	40-2382	Cross Brace
1	40-2383	Threaded Male Slider Tube
1	40-2384	Female Slider Tube
4	60-352	Uni-Mounting Tabs ( for the front crossmember)
2	64-108	1/2" RHM Rod End
1	64-110	5/8" RHM Rod End
2	65-321	1/2" x 1-3/4" UNF Bolt
2	65-135	1/2" UNF Nylock Nut
1	65-061	5/8" x 2" UNF Bolt
1	65-137	5/8" UNF Nylock Nut
2	63-090	7/8" x .065 Wall x 1/2" Threaded Tube End
2	40-2385	Rear Housing To Wishbone Mounting Tab
2	65-116	1/2" UNF Jam Nut
1	65-118	5/8" UNF Jam Nut



# Un-Welded Wishbone Drawing

