

INSTALLATION GUIDE



300-2012

**FAB9™ HOUSING HARDWARE SET
POLY BUSHED UPPER CONTROL ARMS
1979-2004 Mustang**

Description: Housing hardware includes: upper arm urethane bushings, sleeves and hardware, shock mounts, third member mounting studs, o-ringed filler cap, magnetic drain plug

PARTS LIST

300-2012 FAB9™ Upper Control Arm Hardware (Poly Bushing)

90300-2012.12 Hardware Bag for FAB9™ Poly UCA (1 of 2)

Item	Qty	Part Number	Description
1	2	3101-050-20C	Locknut 1/2-20 Nylon Insert, Plated
2	2	3106	Bolt 1/2-20 x 4" Hex Head Cap Screw, Grade 8
3	4	3120-050S-Y	Washer 1/2" Hardened Flat SAE
4	2	3140-1620-77	Sleeve 5/8" OD x 1/2" Bore x 2.406 Long
5	2	3144-25-28-0	Grease Zerk 1/4-28 Straight
6	1	3151-5ML	Grease Packet
7	4	3540	Urethane Bushing 1.375 x .625 x .95 Black

90300-2012.22 - Hardware Bag for FAB9™ Poly UCA (2 of 2)

Item	Qty	Part Number	Description
8	2	230189	Lower Shock Mount Folded Clevis 79-04 Mustang FAB9™
9	4	3101-038-24C	Locknut 3/8-24 Nylon Insert, Plated
10	4	3105	Bolt 3/8-24 x 1" Hex Head Cap Screw, Grade 8
11	4	3120-038S-Y	Washer 3/8" Hardened Flat SAE

908203 - Hardware Bag for FAB9™ Housing

Item	Qty	Part Number	Description
12	1	1242	Stud 3/8-24 x 2.10" Long
13	1	1301	Housing Filler Cap
14	11	3101-038-24C	Locknut 3/8-24 Nylon Insert, Plated
15	11	3109-038-S-2-Y	Aircraft Washer 3/8" Small OD
16	9	3130-038F1.50B	Bolt 12-point Flange Screw 3/8-24 x 1-1/2"
17	1	3503	O-Ring for Filler Assembly
18	1	3566	Magnetic Drain Plug 1/2-20 (3/4" Hex)
19	1	3567	Copper Gasket for 1/2" Drain Plug

INSTRUCTIONS

Loose Housing Ends (option)

If your housing was purchased without the housing ends installed, they will need to be installed before proceeding. A high quality rear end narrowing jig (P/N 6708) is available for purchase to accurately position the housing ends in relation to the carrier bearings.

All housings are pressure tested during assembly to ensure there are no leaks. The housing will need to be retested after welding the housing end joints. Begin by pressure washing the housing to remove any grease or contaminants. Seal all openings with duct tape, then lightly pressurize the housing (2-5 psi). Using a squirt bottle with soapy water, spray all welded joints while checking for air bubbles. Any leaks will need to be fixed before proceeding.

Painting/Powder-Coating

Housings must be sand-blasted and painted or powder-coating completed prior to installation of the urethane bushings. Housing end faces and bores, anti-rollbar bearing bores, as well as internal and external threads must be plugged or masked to prevent coating build-up in critical areas. Machined face of housing can be coated. Silicone will be used when mounting the third member to seal any inconsistencies of the coating.

- 1. Housing Hardware Installation** - Use the contents of hardware bag 908203. Refer to installation guide 918203 for additional instructions.
- HOUSING STUD – From front side of housing face, screw the longest end of the double-ended stud (1242) into the faceplate mounting hole closest to the drain hole. The stud should extend outward from the housing face approximately 1-1/8". Secure the stud from inside the housing with a 3/8" washer and locknut.
- The nine 3/8 x 1-1/2", 12-point bolts screw into the faceplate from inside the housing. Use Loctite™ to secure them in place. They will act as studs to secure the third member housing.
- The remaining 10 washers and locknuts are used to secure the third-member to the housing.
- Stretch o-ring over threads and seat in groove under head of cap. Apply anti-seize or similar lubricant to threads and screw cap on to housing filler/inspection hole hand-tight.
- Place the copper gasket over the magnetic drain plug. Apply anti-seize to threads and screw drain plug into bottom of housing.
- 7. Urethane Bushing Installation** - Use the content of hardware bag 300-2012.12.
- Insert bushings into bushing housing.
- Apply grease to outside of 5/8" OD steel sleeve, then insert sleeve into bushings. Apply pressure against rear bushing to prevent it from being forced out. Wipe away any excess grease.
- Apply grease to outside surface of bushings that will contact upper control arm flanges.
- Install grease zerk fittings into threaded hole of bushing housings. Zerk fittings use a tapered pipe thread and should not be overtightened. A grease gun can only be use at these fittings after installation of upper control arms to prevent bushings from being forced out.
- The remaining hardware (1/2-20 x 4" Bolt, 1/2" Flat Washers, 1/2-20 Locknuts) will be used to secure the upper control arm at the housing mounts. Do NOT use the stock size 12mm bolts.
Note: Upper control arms with 12mm holes will need to be drilled out to 1/2".
- 13. Control Arm Installation** - Follow instructions provided by your upper and lower control arm manufacturer.
- 14. Shock Mount Installation** - Use the contents of hardware bag 300-2012.22.
- Install the shock mount clevis onto the backside of the housing's axle mount. Clevis should be angled upward and installed in the lower set of holes at the axle bracket. Use flat washer under bolt head and insert hardware from clevis side of mounting bracket. Thread locknut onto bolt.
- Temporarily install shock absorbers to verify the suspension travel range is correct. The lower shock mount can be moved to the upper position to increase ride height if necessary. Once ride height range has be established, remove shocks and torque shock mount hardware to 35-40 lb ft.
- Verify all components have been correctly installed and correctly torqued.

WARRANTY NOTICE:

There are NO WARRANTIES, either expressed or implied. Neither the seller nor manufacturer will be liable for any loss, damage or injury, direct or indirect, arising from the use or inability to determine the appropriate use of any products. Before any attempt at installation, all drawings and/or instruction sheets should be completely reviewed to determine the suitability of the product for its intended use. In this connection, the user assumes all responsibility and risk. We reserve the right to change specification without notice. Further, Chris Alston's Chassisworks, Inc., makes **NO GUARANTEE** in reference to any specific class legality of any component. **ALL PRODUCTS ARE INTENDED FOR RACING AND OFF-ROAD USE AND MAY NOT BE LEGALLY USED ON THE HIGHWAY.** The products offered for sale are true race-car components and, in all cases, require some fabrication skill. **NO PRODUCT OR SERVICE IS DESIGNED OR INTENDED TO PREVENT INJURY OR DEATH.**

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