

GR-40 Panhard Bar Installation

Revised October 2005

NOTE:

Read instructions completely before starting. Our current Panhard Bar is designed to work with differential reinforcement covers (e.g. T/A and SVO) and to ease access to factory exhaust systems. This Panhard Bar assembly has also been designed to provide adequate control of rear axle lateral forces with as little compromise to rigidity as feasible while fitting stock tail pipes, and maintaining adequate rear roll center height at a minimum of weight. The diagonal support of the frame bracket is constructed in a straight line to preclude flex. Do not modify or bend this bracket. If you have trouble with fit, the installation is being done incorrectly. Take a step back, look at it again and review your work for possible errors.

1. Raise car to a comfortable work height and support with jack stands under rear axle and front A-arms. Do not support the car by its frame. Car must be at ride height for proper installation.
2. Remove exhaust hangers on left (drivers) side of car and lower tail pipe.
3. Position Panhard bar frame bracket on car with 2 inch x 2 inch upright on left side. Protruding angle iron should fit into corner of frame rail and fuel tank bulkhead. Right side of bracket should cross straight across to opposite frame rail. Later fuel injected cars will require adjustment of fuel hose position on right frame rail. This is done by removing the attachment loop, pulling down the fuel hoses while placing the right side of bracket above the lines.
4. Check clearance between 2 x 2 upright and fuel tank for 1/8 inch minimum. On some installations the fuel tank straps must be loosened to position the tank as far rearward as possible. Be sure to re-tighten straps if this step is performed.
5. Mark contact areas of frame bracket on car.
6. Remove bracket.
7. Remove all paint within 1 inch of contact areas using a hand grinder with a soft sanding (not grinding) disc or a wire brush.
8. Reposition bracket on car and tack weld.
9. Raise driver side exhaust to its normal position and check clearances. Adjust bracket position slightly if necessary. Lower exhaust.
10. Finish welding frame bracket to car.
11. Install axle clamp loosely on right side of axle with brake line outside of clamp and leg of clamp towards wheel.

12. Back off right rear control arm bolt and slide leg tab into position under bolt head and re-tighten bolt. Locktite on the nut is a good idea here.
13. Tighten axle clamp bolts (See Chart) making sure not to pinch the brake line.
14. Coat the outside of urethane bushings with clear lubricate supplied and press into Panhard bar. A large vise helps to do this. Coat inside of bushings and outside of sleeve with lube and, using vise, press into Panhard bar. Screw heim joint into opposite end and don't forget the jam nut.
15. Install Panhard bar heim end into axle bracket.
16. Set length and test fit. Bolt should slide through frame bracket easily.
17. Lower bushing end of bar, coat with lube and reinstall.
18. Reinstall exhaust hangers.
19. If you have already installed a TorqueArm remove upper control arms.
20. Paint any exposed metal with a quality rust resistant paint.
21. Lower car to ground and test drive.

NOTE: It is advised to re torque all bolts after about 1000 miles of usage. The MPB 1200 A Panhard bars assembly was designed for spirited street driving. If the car is to see track or autocross use, it is advised to weld one 3/4" long bead on both sides of axle clamp to axle housing, and from leg tab to control arm bracket. (More than 3/4" of weld may bend axle housing, affecting rear tire alignment). Also re-torque all bolts and jam nuts after the first track session.

Further, as with all vehicles seeing high performance track use, it is recommended that all suspension bolts and components be inspected regularly and fasteners be re-torque periodically.

Bolt Torque Chart:

Axle Clamp to Housing 1/2-20, (2 each)	110 ft-lbs
Axle clamp leg Tab, Control Arm Bolt (1 each)	79-98 12mm 10.9 70 ft-lbs 99-04 14mm 10.9 117 ft-lbs
Panhard Rod End Bolt 5/8-18, (1 each)	200 ft-lbs
Panhard Bushing End Bolt 1/2"-20 (1 each)	75-80 ft-lbs