

# City Racer Brake Proportioning Valve Installation Guide

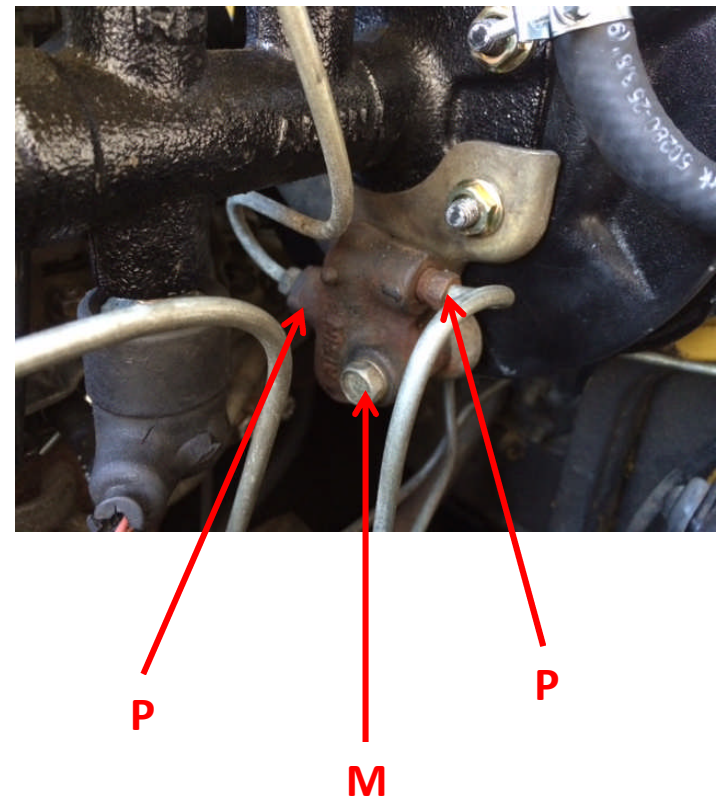
For 9/75-7/80 Toyota Land Cruiser FJ40

*City Racer LLC*

Time Estimate: 1 hour

# Task 1: Remove old proportioning valve

1. Cover the rear master cylinder reservoir with plastic wrap and secure with rubber band. This will greatly reduce fluid leakage when the lines are disconnected
2. Locate the stock brake proportioning valve beneath the brake master cylinder
3. Break loose mounting bolt (M) but keep it in place
4. Place a small container underneath to catch dripping brake fluid. Do not allow brake fluid to come in contact with vehicle's paintwork
5. Unscrew both ports (P)
6. Back out mounting bolt and remove the valve



## Task 2: Pre-adjust new proportioning valve

1. Brake Bias is adjustable, with range of 100 PSI-1200 PSI pressure (0 to 60%). As delivered, the valve is set at minimal pressure
2. Recommend to start with a low pressure setting, by turning the valve clockwise 1 full turn

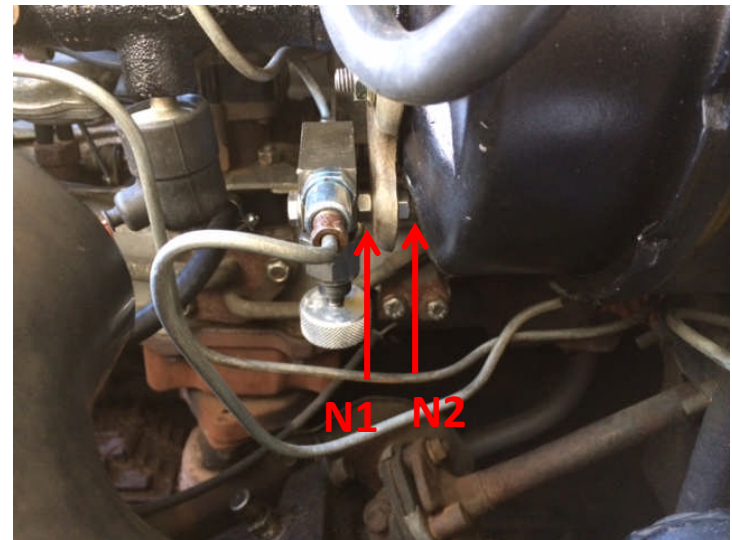
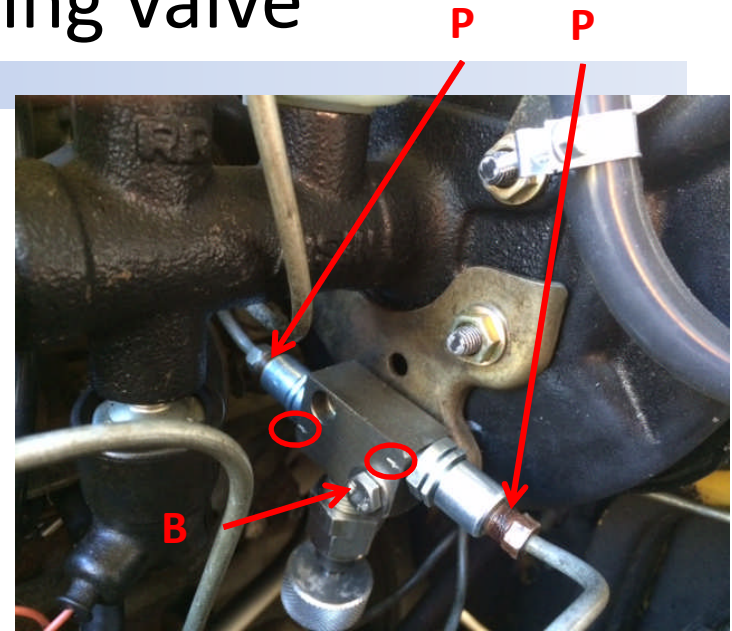


# Task 3: Install new proportioning valve

1. Orient the new proportioning valve upside down as shown in the photo. Small arrows on the valve (circled) should face the front
2. Screw brake lines into the proportioning valve ports (P)
3. Insert the supplied mounting bolt (B) through the right side mounting hole, and through 2 nuts (supplied). The first nut (N1) should be positioned between the valve and the stock mounting bracket. The second nut (N2) should be behind the mounting bracket.

**Tip:** Do step 2 before step 3 rather than the reverse

**Tip:** If it's difficult to position N2, back out the two lower master cylinder bolts a bit so that the bracket can be pushed out slightly to make room



## Task 4: Finish the job

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1. Bleed both rear brakes
2. Take a test drive
3. Check for leaks
4. Go to an open area (such as an empty parking lot) and try a few hard stops from 30 mph
5. Turn valve knob to adjust pressure if necessary.  
Reduce valve pressure if the rear brakes lock up

# Disclaimers

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1. This document should be considered a complement and not a substitute to the Toyota or Haynes Service Manual.
2. Professional installation is recommended unless you have the aptitude to undertake such task.
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