

#### Special A-Body only parts shown below (In addition to parts above for A-Body cars, part # MDC66DC & MDC46DC)



Your new disc brake conversion kit can be bolted up with standard hand tools. The only tools you may not find in your toolbox are listed below.

- 1. Ball joint fork or "pickle fork"
- 2. Spring compressor (recommended for coil spring vehicles)
- 3. Drum brake tool (optional)

Note: If you are interested in Power Coated Calipers or Drilled and Slotted Rotors for your car please give us a call. We have these upgrades available for exchange of non-installed components. We cannot exchange components that have been previously installed. Shipping charges will apply. Upgrades pictured.



Attention: <u>Before</u> modifying, painting, or powder coating any part of this kit, please trial fit all components and check rim clearance. We recommend you run 15" or larger wheels with this kit. We do not support the use of 14" wheels on this kit.

Modified, Painted, and Powder Coated parts are not returnable!

## **Kit Contents:**

- Pair of Rotors (BR51C for plain rotors, BR51ZDC rotors for drilled and slotted rotors)
- Pair of calipers (BC42N / BC43N, if powder coated calipers were selected there will be a letter pertaining to the color of the caliper within the part number as well, within this box of calipers will be a bag with the caliper mounting plates, hardware for the plates, anti-rattle rubber bands and anti-rattle rubber band mounting tab)
- \_\_\_\_\_Set of caliper brackets and spindles (DBSP03)

\_\_\_\_Pair of Dust Shields (DBBP03)

\_\_\_\_Steering Arm Hardware Kit (MHK04)

Pair of Flex Hoses (FHK111 for regular, FHK111S for braided stainless)

\_\_\_\_\_Wheel Bearing Kit (WBK62C)

\_\_\_\_\_Adjustable Proportioning Valve (PV01)

Master Cylinder (DBMC10 for Power Front Disc, DBMC15 for Power Four Wheel Disc or Manual Front and Manual Four Wheel Disc)

\_\_\_\_Power Booster (RPB8001)

Upper Control Arms & Upper and Lower Ball Joints (UCA6076, A-Body Only)

\_\_\_\_Instruction Packet

\* See the back page of the instruction booklet to review the "Pick Ticket" used to pull your order.

## **Disclaimer:**

The Right Stuff values your safety above all things. For this reason, we recommend all brake systems and components be installed by professionals. The installer of the brake parts is responsible for ensuring fitment and suitability of the parts for the vehicle it is being installed on. Brakes should be tested in a controlled open area with success before driving on the road. If you are unsure or uncomfortable with any part of your kit, please call for further instructions from our tech staff before driving.

## **Installation Instructions:**

### Lower Assembly

### 1. Prepare the car

Begin by securely supporting the car on jack stands. Chock the rear wheels and set the parking brake to be sure vehicle does not roll. Always work on a flat, level surface. Remove the wheels to gain access to the brake system.

### 2. Disconnect tie rod ends & Lower Ball Joint

Remove the cotter pin and castle nut that secures the tie rod to the steering arm. You will reuse the castle nuts later. Use a heavy hammer to remove the tie rod end from the steering arm. A ball joint fork or "pickle fork" may be needed to break things loose.

### 3. Disconnect front flex hoses

Unscrew the hard line from the flex hose, being careful not to get brake fluid on painted surfaces. Remove the flex hose retaining clip and pull the hose out of the frame mounted bracket.

### 4. Remove drum brake assemblies

To remove the old drum brake assemblies you need to compress the coil springs. We highly recommend the use of a spring compression tool. Failure to handle the spring properly can result in serious injury to you and damage to the vehicle!

Preferred method for coil springs:

- a. Remove the shock absorber
- b. Install the spring compressor following the directions supplied with the tool
- c. Compress the spring until all pressure is released from the control arm
- d. Remove the cotter pin and castle nut from the upper ball joint
- e. Keep the castle nut for reuse later
- f. Use a ball joint fork to release the upper ball joint from the spindle
- g. Raise the upper control arm up out of the way
- h. Repeat steps "d" and "f" to release the lower ball joint and remove the spindle assembly

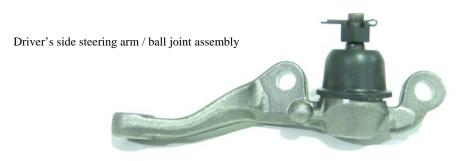
### 5. Inspect suspension components

Now is the time to clean up and inspect your suspension components. Check the inner and outer tie rod ends and ball joints for wear and replace if needed. Inspect the rubber boots for cracks or tears. Universal replacements are available at most automotive parts stores.

# 6. Remove original steering arm / lower ball joint assembly

Remove the dust cap, cotter pin, and washer from the old spindles. Pull off the hub to allow access to the steering arm bolts. Unbolt the Steering arm and prep it for reuse.

**Note:** A-Body owners do not need to remove this component. They will receive a new steering arm / lower ball joint in their new kit.



### 6a. <u>A-Body Owners Only!!!</u> Remove Factory Upper Control Arms / Install New Upper Control Arms.

If you have an A-Body car you should have ordered part number MDC66DC or MDC46DC. This kit comes with new upper control arms and upper and lower ball joints. If you did not order that part number you probably do not have the extra parts required for an A-Body installation. Please contact us to get the additional parts that you will need. At this point in the installation remove your factory upper control arms. Then install the new upper control arm and upper ball joint.

### 7. Bolt together the new spindle assembly

Attach the new caliper bracket to the spindle with the supplied hardware. The machined side of the bracket should face the spindle as illustrated to the right. Torque the bolts to 95 ft./lbs. Be sure you use the correct bracket and spindle. Both the spindles and the brackets are marked left or right.



Once the brackets are on, you need to determine if you want front or rear mounted calipers. Most application use rear mounted calipers. If you want to run front mounted calipers, you need to reverse the spindles (left hand to right hand and vise versa). One of the determining factors of front or rear mount is the final flex hose routing. Test fit the spindles as both a front mount and a rear mount to see which setup would give you the best flex hose routing to the factory flex hose frame bracket. After you have determined if you are going to front or rear mount your calipers bolt up the old steering arm assembly (or new steering arms for A-Body owners) and torque the hardware to the specifications provided in the factory assembly manual.



Driver's side spindle assembly (rear mounted calipers) pictured above

### 8. Install the new disc brake spindles

Place the lower ball joint into the lower control arm and attach it with the original castle nut. Torque the nut to the specifications provided in the assembly manual. Fix it in place with the new cotter pin supplied with your kit.

Pull the upper control arm down and insert the upper ball joint into place. Attach the upper ball joint with the original castle nut. Torque the nut to the specifications provided in the assembly manual. Fix it in place with the new cotter pin supplied with your kit. Place the tie rod end back into the steering arm and fasten it with the original castle nut. Torque the nut to the specifications provided in the assembly manual. Fix it in place with the new cotter pin supplied with your kit.



Front mounted caliper setup shown in photo above

# 9. Release the pressure on the coil spring or torsion bar

You are now ready to release the pressure on the coil spring. If you used a spring compressor, you can release it slowly and reinstall the shock absorber.

### **10. Install the backing plates**

Place the backing plate over the spindle and fasten it with the hardware supplied with your kit.

### **11. Grease the bearings and install the rotors**

You are now ready to install the bearings and rotor. Start by placing the rotor face down. Races come preinstalled in the rotors. If you received additional races with your bearings, they will not be used. Apply a little bearing grease to the bearing race already in the rotor and pack the larger of the two bearings (Inner) with grease. Install the bearing into the rotor and place the grease seal on the rotor. Tap the seal into place being careful not to damage the rubber portion of the seal.



Inner Bearing Assembly

Outer Bearing Assembly

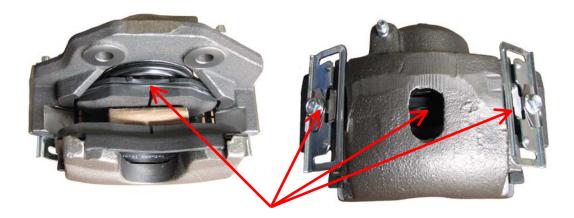
Turn the rotor face up and grease the bearing race. Pack the smaller bearing (Outer) and place it in the rotor. Slide the rotor onto the spindle being careful that the outer bearing does not fall out of place. Install the keyed washer and castle nut and tighten the nut to seat the bearings. Then back the nut off until the rotor spins freely. Fix it in place with the new cotter pin supplied with your kit. Install the dust cap with a mallet and a large socket placed over the dust cap. A screwdriver can also be used along the edges.

### 12. Mount the calipers

Your new calipers come fully loaded with pads, mounting hardware, banjo bolts, and copper washers. Start by lubing the slider path on the bracket with silicon grease (not included). Position the caliper in the bracket with the bleeder screw at the 12 o'clock position. If the caliper won't install in the brackets With the bleeder pointed up, you probably have the opposite side caliper. Use the illustration below as a guide to install the caliper retaining clips and bolt the caliper into place.



**Note:** The bleeder screws must be pointed up. If the bleeders are pointed down, the calipers will trap air and you will not get the system to bleed properly.



**Note:** If you wish to use the included anti-rattle device, now is the time to install it. The Mopar anti-rattle device is the black rubber band included in your caliper hardware bag. The rubber band wraps around the inboard pad (pad against the piston) and then goes around the "T" shaped tab as illustrated in the photos above.

### 13. Mount the flex hoses

Remove the banjo bolt and copper washers from the caliper. Place a copper washer on top of the flex hose and insert the banjo bolt. Place the second copper washer over the banjo bolt on the bottom of the flex hose and bolt the hose onto the caliper with the specifications provided in the assembly manual.

Insert the other end of the flex hose into your original frame brackets. You may need to file the inside of your original brackets to accommodate the new flex hose. Push on the new flex hose clip supplied with your kit. At this point the hose might seem a little tight when you turn the wheels from lock to lock. This is normal. The suspension is flexed to the absolute limits of its travel. You would have to be airborne while making a sharp turn to recreate these conditions while driving.

**Note:** If when the car is on the ground the hose is still tight, try mounting the caliper on the opposite side of the spindle (front mount if already rear mounted or visa versa) as described in step 7. If the hose is still tight after you have tried front or rear mounting the calipers give us a call on our tech line for further assistance.

This completes the lower assembly installation.



### **Upper Assembly**

### **1. Remove the old master cylinder assembly**

Remove the master cylinder brake lines being careful not to get fluid on any painted surfaces. Remove the eyelet from the pedal rod under the dash. If your original system was power, you should be able to remove the booster mounting nuts from the firewall and remove the booster/master assembly. If your original system was not power, simply remove the master cylinder mounting nuts from the firewall and remove the master cylinder.

## 2. Mount the new master cylinder and booster assembly

- a. Bolt your power booster to the four studs on the firewall
- b. Place the master cylinder onto the front of the booster and bolt it in place with the locknuts provided with your kit
- c. Supply vacuum to the booster check valve

**Note:** After you remove your original booster or master cylinder and bolt on the new booster you may be left with a hole in your firewall. We have a plate that we can send you in this circumstance. Please call our tech line for further assistance.



### 3. Install and adjust the pedal rod

Hold the brake pedal approximately 1/8" down from the stop. Adjust the pedal rod so that when connected the pedal will be at this location 1/8" down from the stop. After you have adjusted the pedal rod connect the eyelet to the pedal. Be sure to tighten all jam nuts on the pedal rod to lock it in place after all your adjustments are made.

### 4. Bleeding the system

Working your way forward from the wheel farthest from the master cylinder will help insure a good bleed and a firm pedal. It is important to bleed the system in the following order:

- 1. Right Rear
- 2. Left Rear
- 3. Right Front
- 4. Left Front

If you have a spongy pedal, be sure the bleeder screws are pointed up and try re-bleeding the system.

#### **Technical Support**

We want your conversion project to go smoothly. Double check that you have followed these instructions correctly and those included with any upgrade components you may have purchased. If you need additional help getting your new disc brakes to function properly, we're here for you. You can visit our website at <u>www.GetDiscBrakes.com</u> for Tech Tips, Tricks & Videos. If you cannot find the assistance you need from that source feel free to send us an email from the Tech support section of the website for priority service. If you are still unable to get the help you need, please feel free to give us a call at (800) 405-2000.

### **Thank You for Your Business!**



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### **Pick Ticket:**

