



# INSTALLATION INSTRUCTIONS

Power Steering Control Valve for Ford

A0725 & A0725-1

Thank you for choosing STAINLESS STEEL BRAKES CORPORATION for your braking needs. Please take the time to read and carefully follow these instructions to insure the ease of your installation as well as the proper performance of the complete system.

Before beginning your installation, please verify you have received all the parts indicated on the packing slip. If you believe anything to be missing or incorrect, please call our Customer Service Department at 716-759-8666.

To assure your installation will go safely and smoothly, have the following items on hand to assist you:

**JACK & JACK STANDS  
TUBE WRENCHES  
POWER STEERING FLUID**

**WRENCH SET  
SOCKET SET**

**A0725 Applications - 5/16" Pressure Ports**

64½ - early 67 Mustang  
66 - early 67 Falcon, Futura, Ranchero  
70 - 75 Maverick, Comet  
75 - early 76 Granada, Monarch  
Early - 66 Fairlane

**A0725-1 Applications - ¼" Pressure Ports**

67 - 70 Mustang, Cougar  
67 - 70 Falcon, Futura, Ranchero  
76 - 77 Maverick, Comet  
76 - 80 Granada, Monarch  
67 - 71 Torino, Fairlane  
77 - 80 Lincoln Versailles  
77 - 80 Dodge "Duck"

**IF YOU EXPERIENCE ANY PROBLEMS WITH THIS PRODUCT,  
CALL STAINLESS STEEL BRAKES CORPORATION  
DIRECTLY AT 716-759-8666. DO NOT RETURN THE  
PRODUCT TO THE SUPPLIER YOU PURCHASED IT FROM.**

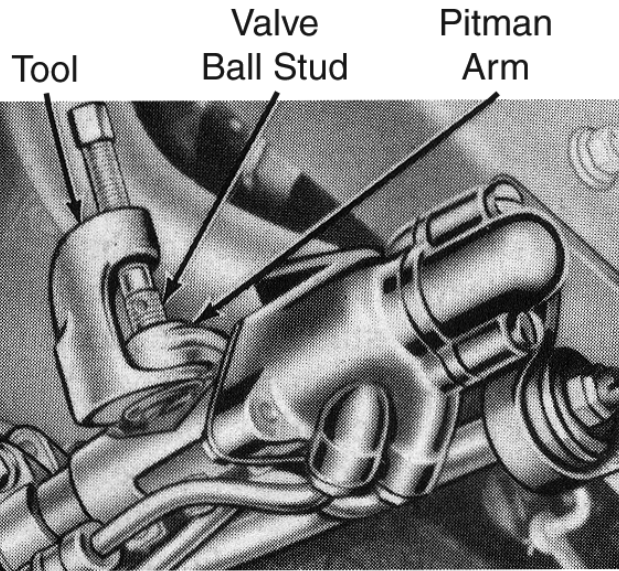
- 1) Removal of Old Power Steering Control Valve
  - a) Raise vehicle and support it on stands so that front wheels can be turned from a full left to a full right turn.
  - b) Disconnect the 2 fluid line fittings at the control valve and drain the fluid from the lines. Turn the front wheels to the left and to the right several time to force all the dirty fluid from the system. **FAILURE TO FLUSH ENTIRE POWER STEERING SYSTEM OF CONTAMINANTS WILL CAUSE LEAKS AND VOID WARRANTY.**
  - c) Measure the distance between the center of the grease plug in the valve sleeve and the center of the stud at the inner end of the left spindle connecting rod. The distance should be  $5\frac{5}{8}$ " for Montego, Falcon, Maverick and Fairlane vehicles. The distance should be  $4\frac{7}{8}$ " for Mustang and Cougar models. Mark down the dimension so you can reference when installing. See figure 1.
  - d) Loosen the clamping nut and bolt at right end of sleeve.
  - e) Remove the control valve ball stud cotter pin and nut. Remove the ball stud from the pitman arm. This may require a ball stud removal tool not included in this kit. See figure 1.
  - f) Remove valve and valve sleeve assembly from the center link by unscrewing counterclockwise.
  - g) Inspect hydraulic hoses for cracks or bad fitting ends due to age. Replace as necessary.
  
- 2) Installation of New Power Steering Control Valve
  - a) Screw the valve onto the center link until about 4 threads are still visible on the link.
  - b) Position the ball stud on the sector shaft arm.
  - c) Check the distance between the center of the grease plug on the sleeve and the center of the ball stud at the inner end of the left spindle. Adjust to the dimension that was recorded when removing old valve assembly (see step 1c). Turn valve to proper dimension.
  - d) When the correct distance is obtained and the ball stud is positioned in the pitman arm, install nut on ball stud and torque to manufacturer's specifications. Install new cotter pin. Tighten clamping nut and bolt at right end of the sleeve.
  - e) Connect the fluid lines to the control valve and tighten all fittings securely to seat the fittings in the valve. **DO NOT OVER TIGHTEN.**
  - f) Fill the fluid reservoir with manufacturer's specified fluid to the cross hatched area on dipstick.
  - g) Start the engine and run it at idle speed for about 2 minutes to warm the fluid in the power steering system.
  - h) Turn the steering wheel all the way to the left and right several times and check system for leaks.
  - i) Increase the engine speed to about 1,000 RPM and turn the steering wheel all the way to the left and right several times.
  - j) Stop the engine and check the control valve hose connections for leaks. Check the fluid level and refill as necessary.
  - k) With the engine running, check the position of the steering wheel when the front wheels are in the straight ahead position. It is recommended that the front end is aligned and toe-in is checked for proper adjustment.
  - l) Check the effort to turn the wheel in both directions. The effort should be about equal in both directions. If not, follow the power steering control valve instructions (step 3).

- 3) Power Steering Control Valve Adjustment
- a) Once the valve is completely installed and the system has been re-filled, you'll need to determine whether or not the valve needs to be centered.
  - b) Place the car securely on jack stands so that the front wheels are off the ground and the wheels can move their full left to right travel.
  - c) Start the vehicle, keeping your hands clear of the steering wheel. Observe the steering wheel with the car running. If the wheel remains completely still, take the wheel in your hands and turn it from lock to lock, observing the effort needed in each direction.
  - d) If the wheel does not move by itself and the effort in each direction is equal, then no centering will be needed. Check for leaks and double check the fluid level and your installation is now complete.
  - e) If the wheel turns by itself or if more effort is required to turn the wheel in one direction than the other, the valve will need to be centered as follows:
    - 1) Shut the car off and remove the centering spring cap from the end of the valve by removing the 2 screws (see figures 1a and 1b).
    - 2) Turn the  $\frac{7}{16}$ " locknut one quarter turn counterclockwise. Replace the endcap and screws.
    - 3) Start the engine and re-check the behavior of the wheel.
    - 4) If the condition has improved, repeats steps 1- 3 until the condition is eliminated.
    - 5) If the condition has worsened, shut off the engine and remove the endcap from the valve again.
    - 6) Turn the locknut one quarter turn back in the clockwise direction to its original position.
    - 7) Then turn the locknut one quarter turn in the clockwise direction and replace endcap and screws.
    - 8) If the condition has improved, repeat step 7 until the condition is eliminated.

When your control valve is properly centered, the wheel should remain completely still with the car running and the effort to turn the wheel in either direction should be equal.

Always check for leaks and check the fluid level before driving the vehicle, even if no centering was required.

### Removing Control Valve Ball Stud



### Control Valve Installation Measurements - All Models

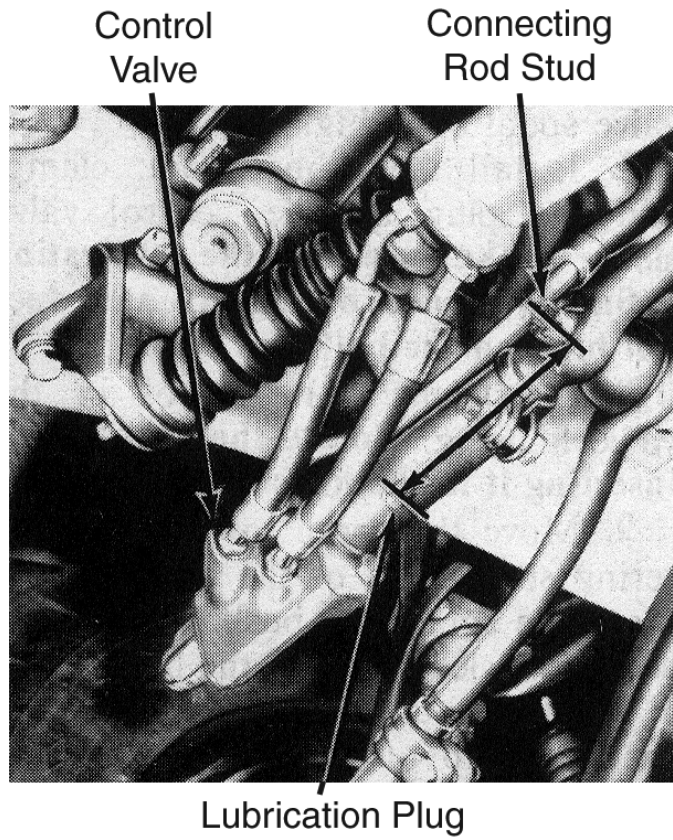


Figure 1

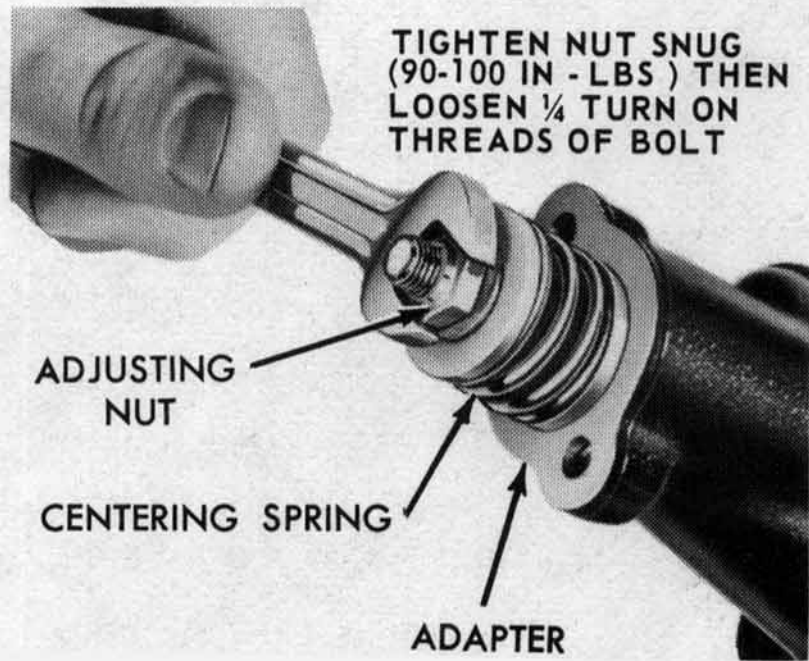
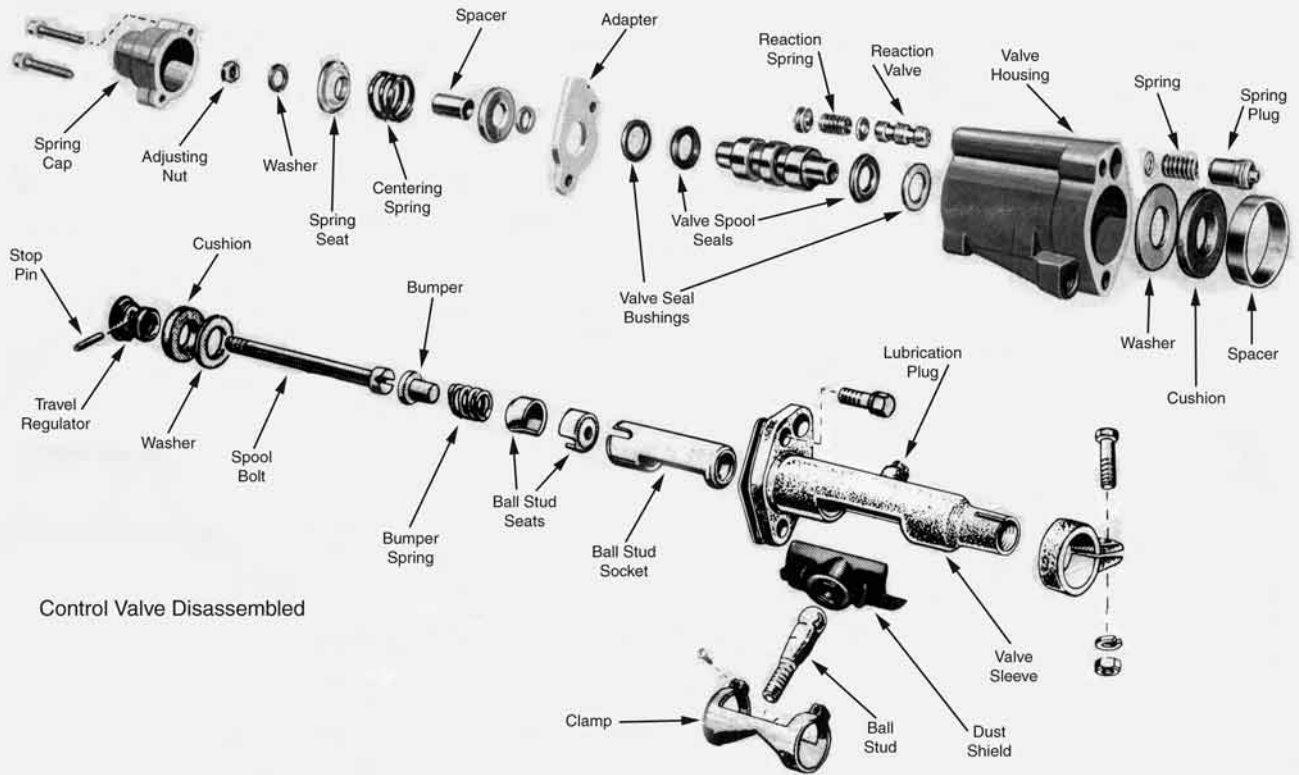


Figure 1a - Adjusting Center Spring

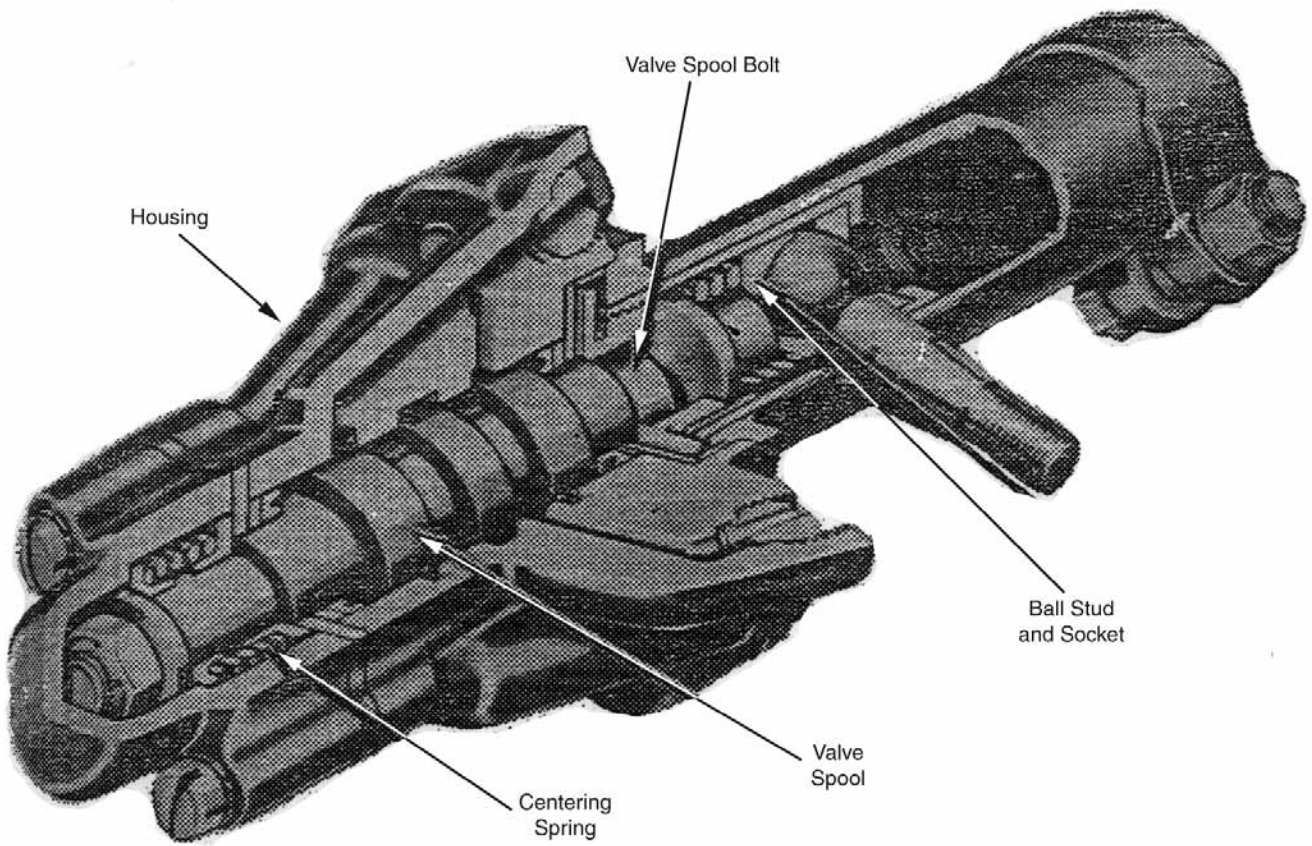


Figure 1b - Power Steering Control Valve

# PLEASE READ BEFORE INSTALLING

The new Power Steering Control Valve is pre-greased during assembly. **DO NOT APPLY MORE THAN ONE HAND PUMP OF GREASE TO THE UNIT.** Over applying grease will cause the control valve to malfunction and can affect performance.

# Solutions Guide

to commonly asked questions.

## Why is my brake pedal soft?

1) In most cases, Air is trapped in the lines or calipers. Try re-bleeding the system. Do not force new fluid into new brake lines. It may foam and be very difficult to bleed. **Make sure that the bleeder screws on the calipers are facing upward!**

2) If all the air is out of the system, the pushrod from the booster may need adjustment, under the dash, to make it longer. Do not extend it too long or it will not allow the fluid to return, causing brakes to drag. Your pushrod may not be adjustable. If the pushrod can be made longer, try ¼ turn adjustments at a time. SSBC stocks adjustable pushrods for many vehicles. In addition, the pushrod between the Booster and the Master Cylinder may need adjustment. Not all Booster to Master pushrods are adjustable.

3) You may have a bad Master Cylinder. Before you determine this, you should make sure that all the air is out of the system. When installing a new Master Cylinder, always bench bleed first. If you did not, take off the Master Cylinder and bench bleed it. (See Bench Bleeding Instructions below)

## Why does the car pull to one side?

The side that the car is pulling to is the caliper that is working. Re-bleed the opposite side and try carefully stopping again.

## Why does it feel like there is no Power Assist?

The Booster may not be getting enough vacuum to operate. On some high lift cams, the engine does not develop enough vacuum. The Booster needs at least 16" of vacuum to operate correctly at idle. If you do not have at least 16 inches of vacuum at idle, you may have to add a vacuum pump to your system.

Check for vacuum leaks. There may be leaks in the intake manifold or hoses that would cause low vacuum. The Booster may be bad. Do a vacuum test. If the Booster can retain a vacuum for three (3) minutes after the vehicle is shut off, it is not a bad Booster (refer to steps 1 & 2). All Master Cylinders must be bench bled in a vise before being installed on the vehicle.

## How do you bench bleed a Master Cylinder?

Secure one of the ears in a vise so that you can take a large screwdriver and push the piston in. Fill the reservoir with clean fluid. Take a dummy line or our M/C bleeding kit and hook it up to the two ports. Front line to front and rear line to rear reservoirs. Slowly stroke the master and let it return slowly. You should see many air bubbles in the fluid. Repeat this step until you do not see any more air bubbles. SSBC recommends ten (10) slow pumping strokes after you see no more air bubbles. This will insure a good hard pedal. (See SSBC part #0460 Instruction Sheet)

## What is the best pad for my vehicle?

Your choice of pads should be determined by how and where you drive the vehicle. If you drive in heavy stop and go traffic you would need a different pad than someone who is road racing. Contact SSBC for the correct application.

## How often should brake fluid be changed? (street application only, not racing)

When brake fluid turns brown, it is time to change the fluid. The brown color indicates that the fluid has absorbed water and dirt. D.O.T. #3 & #4 fluids absorb water. Silicone brake fluid is not for track racing.

## How can I tell which reservoir is the front or rear of the Master Cylinder?

The front reservoir is usually larger than the rear. In some cases, they are the same size. As a rule, for GM cars & trucks, the rear reservoir is for the rear brakes. On Ford cars & trucks, the front reservoir is for the rear brakes. On front wheel drive vehicles, the brakes are split diagonally. Each bowl of the master cylinder services one front wheel and one rear wheel. This will be important if you are installing a distribution block, proportioning valve, or residual valve. Hint: The larger bowl will feed the disc brakes.



## Where is the best place to install a proportioning valve?

The best place to install a proportioning valve is after the distribution block. **Do Not install it between the Distribution Block and the Master Cylinder.** You will not be able to get a hard pedal. Anywhere after the Distribution Block and before the rear flex hose is acceptable for installation.

## Why should the flex hoses be replaced? They look O.K. from the outside.

Flex hoses should be replaced every time the calipers are serviced. They flex up and down, just like a shock absorber. They are also under high pressure internally. Flex hoses have a rubber liner that will collapse over time. If it does collapse, it will act as a check valve and not allow fluid to return to the Master Cylinder.

## Will my pedal get harder by replacing the flex hoses?

No. When the flex hoses are replaced, re-bleed the brake system. Normally what happens is that bleeding causes a harder brake pedal. A better bleeding job and taking your time will result in the same situation.

## Are the rubber flex hoses expanding causing a soft pedal?

Not likely. A soft pedal is usually a sign of air in the system due to poor bleeding. Flex hoses have nylon webbing that is molded into the internal rubber. It is very strong and will hold up to 3,000 P.S.I. Installing braided stainless steel hoses is not necessary; it only improves appearance.

## How much brake pressure does it take to stop my vehicle?

Most vehicles, power or non power brake, develop 1,200 P.S.I. When you panic stop or jump on the brakes hard, a surge of 1,400 P.S.I. can be achieved. If a factory proportioning valve installed on the vehicle, the rear brakes are only developing 600 – 700 P.S.I. Drum brakes require lower pressure because they grab more quickly. When rear disc brakes are installed, the rear brake pressure may be increased to 800 – 1,000 P.S.I. or more. A good way to check the pressures and to see if the system is working correctly, use a pressure gauge screwed into the bleeder port (SSBC part # A1704). A vehicle with less than 600 P.S.I. will not stop!

## How tight should the wheel bearings be?

The front bearings should always be torqued. Not just hand tightened. Bearings usually require 12-15 Ft./Lbs. of torque. Then you will probably need to back off a little to align the cotter pin hole. Do Not over tighten; the bearing life will be shortened. This procedure only applies to rear wheel drive vehicles with separate bearings and races. On vehicles with one piece sealed bearing assemblies or hub assemblies, refer to a service manual.

## What type of differential fluid should I use in my rear axle?

If you have positraction, use a Hypoid or Limited Slip additive that is designed for your particular rear end. If you do not have positraction, any type of 80 –90 weight gear lube is acceptable. Fluid should be changed often if you are trailering or any type of extreme usage. This fluid does brake down with time and usage.

SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #
A109	1012	D-8	A112-2	1047	D-347	A121P-A	A1033	*	A125-5	1047	D-347
A109-1	10108	D-531	A112-3	1071	D-412	A121P-M	A1033	*	A125-6	1047	D-347
A109AF	10128	D-531	A112-4	1047	D-347	A123	1050	D-52	A125-7	1047	D-347
A109AR	10128	D-531	A112-5	1061-1	D199	A123-1	1050	D-52	A125-8	10128	D-531
A109S	1012	D-8	A112-6	10128	D-531	A123-13	1095	D-731	A125-9	10128	D-531
A110	1049	D-204	A112-7	1071	D-412	A123-14	1095	D-731	A125-F	1047	D-347
A110-10	10129	D-43	A112-8	10128	D-531	A123-15	10116	D-749	A125P	1047	D-347
A110-11	10113	D-154	A112-9	1015	D-52	A123-16	10116	D-749	A126	1070P	D-413
A110-12	10113	D-154	A112-93	1047	D-347	A123-17	1095	D-731	A126-1	1047	D-347
A110-13	1015	D-52	A113	1071	D-412	A123-18	1095	D-731	A126-10	1015	D-52
A110-14	10135	D-137	A113-1	1071	D-412	A123-1A	1015	D-52	A126-11	1015	D-52
A110-15	1095	D-731	A113-10	1071	D-412	A123-1C	1050	D-52	A126-12	1015	D-52
A110-16	10128	D-531	A113-11	1015	D-52	A123-2	1071	D-412	A126-13	1094A	D-370
A110-17	10128	D-531	A113-12	1095	D-731	A123-3	1050	D-52	A126-14	1094A	D-370
A110-18	1047	D-347	A113-4	10128	D-531	A123-3A	1015	D-52	A126-15	1094A	D-370
A110-19	10113	D-154	A113-5	1015	D-52	A123-4	1050	D-52	A126-16	1094A	D-370
A110-2	1047	D-347	A113-6	10128	D-531	A123-4A	1015	D-52	A126-17	1094A	D-370
A110-3	10128	D-531	A113-7	10128	D-531	A123-5	1050	D-52	A126-18	1015	D-52
A110-4	10128	D-531	A113-8	1070	D-413	A123-58	1050	D-52	A126-19	1094A	D-370
A110-5	1015	D-52	A113-9	10128	D-531	A123-58A	1015	D-52	A126-2	1047	D-347
A110-6	1015	D-52	A114	1047	D-347	A123-59	1050	D-52	A126-20	1015	D-52
A110-7	10110	D-11	A115	1047	D-347	A123-59A	1015	D-52	A126-21	10129	D-43
A110-8	10110	D-11	A116	1049	D-204	A123-5A	1015	D-52	A126-22	10128	D-531
A110-9	10129	D-43	A117	1047	D-347	A123-6	1071	D-412	A126-23	10128	D-531
A111	1049	D-204	A117-1	1047	D-347	A123-67	1071	D-412	A126-24	10128	D-531
A111-10	1015	D-52	A117-10	10113	D-154	A123-68	1071	D-412	A126-25	10128	D-531
A111-11	1015	D-52	A117-11	1095	D-731	A123-69	1071	D-412	A126-26	10128	D-531
A111-12	10110	D-11	A117-12	1095	D-731	A123-6A	1071	D-412	A126-27	10128	D-531
A111-13	10110	D-11	A117-13	10113	D-154	A123-7	10128	D-531	A126-28	10128	D-531
A111-14	10110	D-11	A117-14	10113	D-154	A123-8	10128	D-531	A126-29	10128	D-531
A111-15	10110	D-11	A117-15	10113	D-154	A123-9	10128	D-531	A126-3	A1094B	*
A111-16	10129	D-43	A117-2	1047	D-347	A123-A	1015	D-52	A126-30	10128	D-531
A111-17	10129	D-43	A117-3	1071	D-412	A124	1047	D-347	A126-31	10128	D-531
A111-18	10129	D-43	A117-4	1071	D-412	A125	1047	D-347	A126-32	1015	D-52
A111-19	10129	D-43	A117-5	10128	D-531	A125-1	1047	D-347	A126-33	10128	D-531
A111-2	1047	D-347	A117-6	10128	D-531	A125-10	10128	D-531	A126-34	10128	D-531
A111-20	10113	D-154	A117-7	10128	D-531	A125-11	10128	D-531	A126-35	10128	D-531
A111-21	10113	D-154	A117-8	1047	D-347	A125-12	10128	D-531	A126-37	1095	D-731
A111-22	10113	D-154	A117-9	1095	D-731	A125-13	10128	D-531	A126-38	1095	D-731
A111-23	10113	D-154	A118	1049	D-204	A125-14	1015	D-52	A126-39	1095	D-731
A111-24	1015	D-52	A120	A1033	*	A125-15	1015	D-52	A126-4	A1094B	*
A111-25	10135	D-137	A120-10	10128	D-531	A125-16	1015	D-52	A126-40	10126	D-834
A111-26	1095	D-731	A120-11	10128	D-531	A125-17	1015	D-52	A126-41	10126	D-834
A111-27	10128	D-531	A120-12	10128	D-531	A125-18	10110	D-11	A126-46	10126	D-834
A111-28	1015	D-52	A120-2	10110	D-11	A125-19	10110	D-11	A126-5	1047	D-347
A111-29	10129	D-43	A120-2P	10110	D-11	A125-1F	1047	D-347	A126-51	1047	D-347
A111-3	10135	D-137	A120-2PO	10129	D-43	A125-2	1047	D-347	A126-6	1050	D-52
A111-30	1095	D-731	A120-2PPO	10129	D-43	A125-20	10110	D-11	A126-61	1050	D-52
A111-31	10128	D-531	A120-3	10128	D-531	A125-21	10128	D-531	A126-7	1094	D-369
A111-32	10128	D-531	A120-4	10144	D-289	A125-22	10129	D-43	A126-71	1094	D-369
A111-33	10128	D-531	A120-5	10144	D-289	A125-23	10129	D-43	A126-71A	A1094	*
A111-4	10128	D-531	A120-6	10128	D-531	A125-24	10129	D-43	A126-7A	A1094	*
A111-5	10128	D-531	A120-7	10128	D-531	A125-25	10129	D-43	A126-8	1094	D-369
A111-6	10128	D-531	A120-7A	10128	D-531	A125-26	10113	D-154	A126-9	1049	D-204
A111-7	10128	D-531	A120-7M	10128	D-531	A125-27	10113	D-154	A127	1047	D-347
A111-8	A1015-3	*	A120-8	10128	D-531	A125-28	10113	D-154	A127-1	10128	D-531
A111-9	1015	D-52	A120-9	10128	D-531	A125-29	10113	D-154	A127-2	1070	D-413
A112	1047	D-347	A120D	A1033	*	A125-29	1047	D-347	A127-3	1071	D-412
A112-1	1047	D-347	A120P	A1033	*	A125-30	10113	D-154	A127-4	10128	D-531
A112-11	1095	D-731	A121	A1033	*	A125-31	1015	D-52	A127-5	10128	D-531
A112-12	1095	D-731	A121-2P	10110	D-11	A125-32	1015	D-52	A127-6	1015	D-52
A112-13	10113	D-154	A121-2PA	10110	D-11	A125-33	10135	D-137	A127-7	1047	D-347
A112-14	1047	D-347	A121-2PAPO	10110	D-11	A125-34	1095	D-731	A127-8	1015	D-52
A112-15	1047	D-347	A121-2PM	10110	D-11	A125-35	10128	D-531	A127-9	1047	D-347
A112-16	1095	D-731	A121-2PMPO	A10129	*	A125-36	10128	D-531	A128	1047	D-347
A112-17	10133-1	D-784	A121P	A1033	*	A125-4	1047	D-347	A128-1	1047	D-347

**\*RE-ORDER PADS DIRECTLY FROM SSBC**

SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #
A128-2	1047	D-347	A141	1084-2	D-154	A148-7G	10110	D-11	A164-12	10128	D-531
A128-3	1049	D-204	A141-1	1071	D-412	A148-7GE	10129	D-43	A164-13	10129	D-43
A128-4	1047	D-347	A142	1050	D-52	A148-A	10113	D-154	A164-14	10128	D-531
A128-5	1049	D-204	A142-1	1071	D-412	A150	1047	D-347	A164-15	10126	D-834
A128-6	1047	D-347	A143	1084-2	D-154	A150-1	1047	D-347	A164-16	10128	D-531
A128-7	1047	D-347	A143-1	1071	D-412	A150-2	1047	D-347	A164-17	10126	D-834
A129	1050	D-52	A143-5	1084	D-154	A151	1071	D-412	A164-2	10128	D-531
A129-1	1050	D-52	A143-58	1084	D-154	A151-1	10113	D-154	A164-3	10128	D-531
A129-10	10128	D-531	A143-59	1084	D-154	A151-2	1095	D-731	A164-4	10128	D-531
A129-12	1050	D-52	A144	1084-2	D-154	A152	A1033	*	A164-5	10128	D-531
A129-13	1050	D-52	A144-1	1071	D-412	A152-1	10110	D-11	A164-6	10128	D-531
A129-1A	1015	D-52	A145	1084-2	D-154	A153	A1033	*	A164-7	10128	D-531
A129-2	1050	D-52	A145-1	1071	D-412	A153-1	A1033	*	A164-8	10128	D-531
A129-20	10128	D-531	A146	1071	D-412	A153-2	10110	D-11	A164-9	10128	D-531
A129-22	1095	D-731	A146-1	1084-2	D-154	A153-3	10110	D-11	A165	10128	D-531
A129-23	10128	D-531	A148	1084-2	D-154	A154	A1033	*	A165-1	10128	D-531
A129-24	1095	D-731	A148-1	1084-2	D-154	A154-1	A1033	*	A165-2	1095	D-731
A129-2A	1015	D-52	A148-14	1050	D-52	A154-2	10110	D-11	A165-3	1095	D-731
A129-3	1050	D-52	A148-14A	1015	D-52	A154-3	10110	D-11	A165-4	10133-1	D-784
A129-3A	1015	D-52	A148-15	1050	D-52	A154-4	A1033	*	A166-1	1015	D-52
A129-4	1050	D-52	A148-15A	1015	D-52	A154-5	A1033	*	A166-10	1015	D-52
A129-4A	1015	D-52	A148-16	1050	D-52	A154-6	1095	D-731	A166-13	1015	D-52
A129-5	1071	D-412	A148-16A	1015	D-52	A155	1047	D-347	A166-14	1015	D-52
A129-6	10128	D-531	A148-17	1050	D-52	A155-1	1047	D-347	A166-15	10128	D-531
A129-8	10128	D-531	A148-17A	1015	D-52	A155-2	1047	D-347	A166-16	1015	D-52
A129-A	1015	D-52	A148-18	1050	D-52	A156	A1033	*	A166-17	1015	D-52
A130	1047	D-347	A148-18A	1015	D-52	A156-1	A1033	*	A166-18	10128	D-531
A130-1	1047	D-347	A148-1A	10113	D-154	A156-2	10110	D-11	A166-19	1015	D-52
A130-2	1047	D-347	A148-2	A1033	*	A156-3	10110	D-11	A166-1A	1015	D-52
A132	1046	D-34	A148-22	1050	D-52	A156-4	1095	D-731	A166-2	10128	D-531
A132-1	1046	D-34	A148-23	10110	D-11	A157	1047	D-347	A166-20	1015	D-52
A132-A	1046	D-34	A148-23FS	10110	D-11	A157-1	10128	D-531	A166-21	10108	D-531
A132-M	1046	D-34	A148-23FSE	10129	D-43	A157-2	10128	D-531	A166-22	1047	D-347
A133	1046	D-34	A148-23RS	10110	D-11	A158	1047	D-347	A166-23	A1015-3	*
A133-1	1046	D-34	A148-23RSE	10129	D-43	A158-1	1047	D-347	A166-24	1015	D-52
A133-2	A1033	*	A148-24FSE	10129	D-43	A158-2	1094A	D-370	A166-25	1047	D-347
A133-2P	A1033	*	A148-24RS	10110	D-11	A158-3	1094A	D-370	A166-26	1047	D-347
A133-3	10110	D-11	A148-24RSE	10129	D-43	A158-4	10128	D-531	A166-27	1047	D-347
A133-3P	10110	D-11	A148-25FSE	10129	D-43	A159	10100	D-268	A166-28	1047	D-347
A133-3PO	10129	D-43	A148-25RSE	10129	D-43	A159-1	1094A	D-370	A166-29	1047	D-347
A134	1046	D-34	A148-26	10128	D-531	A160	10128	D-531	A166-3	1015	D-52
A134-1	1046	D-34	A148-26FS	10128	D-531	A160-1	1047	D-347	A166-30	1047	D-347
A134-1P	10110	D-11	A148-26RS	10128	D-531	A160-2	1015	D-52	A166-3A	1015	D-52
A134-1PPO	10110	D-11	A148-27	10128	D-531	A160-3	1015	D-52	A166-4	10128	D-531
A135	1050	D-52	A148-27FS	10128	D-531	A160-4	1047	D-347	A166-5	1015	D-52
A135-1	1094A	D-370	A148-27RS	10128	D-531	A161	1015	D-52	A166-6	1015	D-52
A135-1A	A1094	*	A148-28	10128	D-531	A161-1	1047	D-347	A166-7	1015	D-52
A135-2	1094	D-369	A148-29	10128	D-531	A161-2	1015	D-52	A166-8	1015	D-52
A135-3	10110	D-11	A148-3	A1033	*	A162	1095	D-731	A166-9	10128	D-531
A136	1047	D-347	A148-30	10110	D-11	A162-1	10113	D-154	A167	1015	D-52
A136-1	1047	D-347	A148-30E	10129	D-43	A162-2	1095	D-731	A167-1	1015	D-52
A137	1012	D-8	A148-31	1084-2	D-154	A162-3	10113	D-154	A167-2	10128	D-531
A137-1	1050	D-52	A148-31A	10113	D-154	A163	1015	D-52	A167-3	1015	D-52
A137-1A	1015	D-52	A148-32	1084-2	D-154	A163-1	1047	D-347	A167-4	1015	D-52
A137-2	10128	D-531	A148-32A	10113	D-154	A163-2	1015	D-52	A167-5	10128	D-531
A137-3	1050	D-52	A148-33	1095	D-731	A163-3	1015	D-52	A168	1015	D-52
A137-3A	1015	D-52	A148-34	1095	D-731	A163-4	1047	D-347	A168-1	1015	D-52
A138	1084-2	D-154	A148-4	10110	D-11	A163-5	1015	D-52	A168-10	1015	D-52
A138-1	1084-2	D-154	A148-4E	10129	D-43	A163-6	10113	D-154	A168-11	1015	D-52
A138-1A	10113	D-154	A148-5	10110	D-11	A163-7	10113	D-154	A168-2	10128	D-531
A138-2	1050	D-52	A148-6F	A1033	*	A163-8	10113	D-154	A168-3	1015	D-52
A138-3	1050	D-52	A148-6FE	10129	D-43	A163-9	10113	D-154	A168-4	1015	D-52
A138-4	1050	D-52	A148-6G	A1033	*	A164	10128	D-531	A168-5	10128	D-531
A138-A	10113	D-154	A148-6GE	10129	D-43	A164-1	10128	D-531	A168-6	1015	D-52
A140	1084-2	D-154	A148-7F	10110	D-11	A164-10	10128	D-531	A168-7	1015	D-52
A140-1	10128	D-531	A148-7FE	10129	D-43	A164-11	10128	D-531	A168-8	10128	D-531

**\*RE-ORDER PADS DIRECTLY FROM SSBC**

SSBC Kit #	SSBC Pad #	FMSI #	SSBC Kit #	SSBC Pad #	FMSI #
A170	1015	D-52	A2350014	10116	D-749
A170-1	10128	D-531	A2350014R	10117	D-750
A171	1015	D-52	A2351000	1015	D-52
A171-1	1015	D-52	A2351001	1015	D-52
A171-2	10128	D-531	A2351002	1015	D-52
A171-3	1047	D-347	A2351003	10100	D-368
A172	1015	D-52	A2351004	1094	D-369
A172-1	1015	D-52	A2351005	1094	D-369
A172-2	1047	D-347	A2351006	1094	D-369
A172-3	1015	D-52	A2351007	1015	D-52
A172-4	1015	D-52	A2351008	10100	D-368
A172-5	1015	D-52	A2351009	1094	D-369
A172-6	1015	D-52	A2351010	1094	D-369
A173	10128	D-531	A2351011	1015	D-52
A173-1	10128	D-531	A2351012	1094	D-369
A173-3	A10135	*	A2351013	1015	D-52
A174	1015	D-52	A2351014	1094	D-369
A174-1	1015	D-52	A2351015	1015	D-52
A180-M	1015	D-52	A2351016	1094	D-369
A180-S	1015	D-52	A2351017	10113	D-154
A181	10113	D-154	A2351018	10113	D-154
A182	10113	D-154	A2351019	10118(F) 10119(R)	D-785(F) D-792(R)
A185-M	1015	D-52	A2351020	10126	D-834
A185-S	1015	D-52	A2351021	10119	D-792
A186-1	A1094	*	A2351022	10118	D-785
A187	1095	D-731	A2351023	10113	D-154
A187-1	1095	D-731	A2351024	10133-1	D-784
A187-2	10126	D-834	A2351025	10118(F) 10143(R)	D-785(F) D-974A(R)
A187-3	10126	D-834	A2351026	10143	D-974A
A187-4	10133-1	D-784	A2351027	10133-1(F) 10134(R)	D-784(F) D-785(R)
A188	10110	D-11	A2351028	10133-1	D-784
A188-1	10110	D-11	A2360000	A1033	*
A189	10110	D-11	A2360001	1046	D-34
A189-1	1095	D-731	A2360002	1046	D-34
A190	A10129	*	A2360003	1066	D-237
A191	10129	D-43	A2360004	1061(F) 1049(R)	D-199(F) D-204(R)
A192	10135	D-137	A2360005	1061	D-199
A193	1095	D-731	A2360006	10103(F) 10104(R)	D-600(F) D-627(R)
A193-1	10133-1	D-784	A2360007	1081(F) 10145(R)	D-412(F) D-627A(R)
A194	1097	D-614	A2360008	1061-1(F) 1047(R)	D-199(F) D-347(R)
			A2360009	10127	D-711
			A2360010	10127	D-711
			A2360011	10137(F) 10104(R)	D-491(F) D-627(R)
			A2361001	10146(F) 10147(R)	D-749(F) D-1012(R)
			A2361002	10146(F) 10147(R)	D-749(F) D-1012(R)
			A2361003	10147	D-1012
			A2370000	1092	D-203
			A2370001	1092	D-203
			A2370002	1093	D-477
			A2370003	1015	D-52
			A2370004	1093	D-477
			A2370005	10111	D-529
			A2370006	1094	D-369
			A2370007	1094	D-369
			A2370008	10111	D-529
			A2370009	10111	D-529
			A2370010	10111	D-529
			A2370011	10114	D-746
			A2370012	10120	D-820
			A2370013	10125	D-702
			A2370014	10125	D-702
			A2370015	1093(F) 10139(R)	D-477(F) D-666(R)
			A2370016	10140(F) 10141(R)	D-790(F) D-791(R)
			A2370017	10142(F) 10141(R)	D-945(F) D-791(R)
			A2380001	10121(F) 10122(R)	D-591(F) D-512(R)
			A2380002	10123(F) 10124(R)	D-592(F) D-592(R)

<b>Short Stop...™ Slotted Rotor Upgrade Kits</b>		
SSBC Kit #	SSBC Pad #	FMSI #
A2350000	10112	D-8
A2350001	1015	D-52
A2350002	1015	D-52
A2350003	10113	D-154
A2350004	1099(F) 1070(R)	D-623(F) D-413(R)
A2350004R	1070	D-413
A2350005	10101(F) 10102(R)	D-294(F) D-295(R)
A2350006	1081(F) 1070(R)	D-412 (F) D-413(R)
A2350007	1081(F) 1070(R)	D-412 (F) D-413(R)
A2350008	1095(F) 1096(R)	D-731(F) D-732(R)
A2350008R	1096	D-732
A2350009	1097(F) 1098(R)	D-614(F) D-628(R)
A2350009R	1097(F) 1098(R)	D-614(F) D-628(R)
A2350010	1015	D-52
A2350012	1015	D-52
A2350013	1081	D-412

**\*RE-ORDER PADS DIRECTLY FROM SSBC**



**Stainless Steel Brakes Corporation**

11470 Main Road • Clarence, NY 14031  
 Ph: 716-759-8666 Fx: 716-759-8688  
 ssbrakes.com • tech@ssbrakes.com

**REPLACEMENT  
PARTS  
ORDER FORM**

**DATE:** \_\_\_\_\_

**CUSTOMER # (from receipt):** \_\_\_\_\_

**ORDERED BY:**  
**NAME:** \_\_\_\_\_  
**COMPANY:** \_\_\_\_\_  
**STREET:** \_\_\_\_\_  
**CITY:** \_\_\_\_\_ **ST:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_  
**DAY PHONE:** \_\_\_\_\_  
**FAX:** \_\_\_\_\_  
**E-MAIL:** \_\_\_\_\_

**SHIP TO:**  
**NAME:** \_\_\_\_\_  
**COMPANY:** \_\_\_\_\_  
**STREET:** \_\_\_\_\_  
**CITY:** \_\_\_\_\_ **ST:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_  
**DAY PHONE:** \_\_\_\_\_  
**FAX:** \_\_\_\_\_  
**E-MAIL:** \_\_\_\_\_

**VEHICLE INFORMATION:**  
**TYPE OF AUTOMOBILE:** \_\_\_\_\_  
**YEAR** \_\_\_\_\_ **ENGINE:**  4 CYL.  6 CYL.  8 CYL.

**TYPE OF DRIVING:**  
 STREET  RACING  
 STREET & SLALOM  STREET MODIFIED

**ORDER INFORMATION:**

QUANTITY	PART #	DESCRIPTION	UNIT PRICE	AMOUNT

**METHOD OF PAYMENT:**

CHECK/MONEY ORDER  VISA  MASTERCARD  DISCOVER  AMEX

**CREDIT CARD #:** \_\_\_\_\_ **EXP:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

Total Merchandise	
NY Residents Sales Tax	
Ins. (add \$0.35 per \$100.00)	
UPS Shipping (please call)	
<b>TOTAL</b>	

*Price subject to change without notice. Not responsible for typographical errors.*

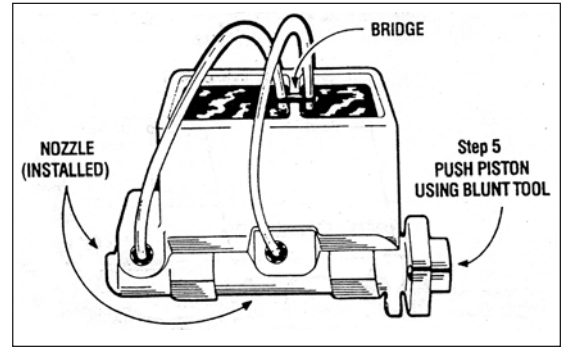
*NOTE: Name, address & telephone number must be printed on checks. Driver's License number required for personal checks.*

**FREE FREIGHT**  
 IF ORDERED WITHIN 30 DAYS OF INITIAL ORDER  
**MAIL OR FAX YOUR ORDER!**

# How and why do I bench bleed a master cylinder?

When installing or replacing a master cylinder, it is critical that all air is removed from the master cylinder. This can easily be done by bench bleeding the master cylinder prior to installation. Using the SSBC master cylinder bleeder kit (#0460):

- 1) Place your master cylinder in a vise by the ears (not body). Make sure it is level.
- 2) Attach a piece of clear plastic hose to the short end of one of the plastic nozzles. Do the same to the other hose and nozzle.
- 3) Clip the plastic bridge to the wall and push the ends of the hose through the holes so they are **SUBMERGED** in the reservoir on either side of the wall.
- 4) Press the tapered end of the nozzle **FIRMLY** into the cylinder port hole with a twisting motion. Repeat this procedure on the other port hole.
- 5) Fill the reservoir with **CLEAN** brake fluid recommended by the manufacturer.
- 6) Using full strokes, push the piston in, then release. Do this until **ALL** the air bubbles have disappeared from the clear plastic hose. **(CAUTION-MASTER CYLINDER WILL NOT BLEED PROPERLY UNLESS HOSES ARE SUBMERGED IN BRAKE FLUID UNTIL THE BLEEDING PROCESS IS COMPLETED.)**



Now mount master cylinder and avoid brake fluid leaking out of front and rear ports during installation.

## Bleeding steps for Dual Port Master Cylinder

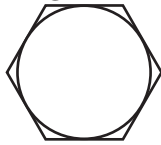
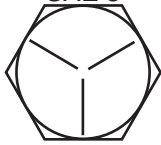
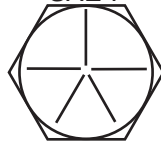

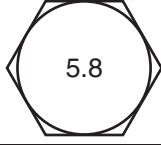
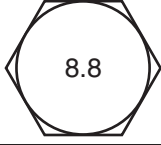
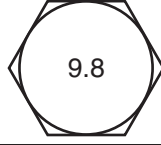
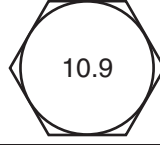
If you have a master cylinder with dual port holes (4 port holes - 2 on each side), it is necessary to bleed both port sides of the master cylinder. If both sides of the master cylinder are not bled, there will be air trapped in the master cylinder and your brakes will not function properly.

To bleed dual port master cylinders:

- 1) Follow steps 1 - 6 above on the side you will be hooking the brake lines to. Plug the other side.
- 2) Once the air bubbles are no longer visible in the plastic hose, open the bleeder screws in the supplied plugs and allow the mater cylinder to gravity bleed. **DO NOT** push the master cylinder piston in while the plugs are gravity bleeding.
- 3) When clear, steady streams of fluid are coming out of both bleeders, close and tighten the bleeders. Give the master cylinder piston several strokes, making sure there are still no bubbles present in the clear plastic tubes.
- 4) Remove the tubes and plastic fittings and mount the master cylinder on the vehicle being careful not to spill brake fluid on any painted surfaces.

# TORQUE SPECIFICATIONS

**BEFORE DRIVING YOUR VEHICLE, YOU SHOULD CHECK THE TORQUE ON ALL NUTS AND BOLTS IN THE KIT, INCLUDING ANY SLIDER BOLTS ON THE CALIPERS. RE-TORQUE CALIPER BOLTS AFTER 500 MILES. ALL SPECIFICATIONS ARE IN FT-LBS.**

<b>BOLT GRADES</b>				
<b>U.S.</b>				
<b>Metric</b>				
<b>Steel Type</b>	Low Carbon (soft)	Medium Carbon Heat Treat	Medium Carbon Alloy	Medium Carbon Alloy

<b>SAE</b>	Bolt Grade	2	2	5	5	7	7	8	8	Socket Head Cap Screw	Socket Head Cap Screw
Bolt Dia.	Thread per inch	Dry	Oiled	Dry	Oiled	Dry	Oiled	Dry	Oiled	Dry	Oiled
1/4"	20	4	3	8	6	10	8	12	9	14	11
1/4"	28	6	4	10	7	12	9	14	10	16	13
5/16"	18	9	7	17	13	21	16	25	18	29	23
5/16"	24	12	9	19	14	24	18	29	20	33	26
3/8"	16	16	12	30	23	40	30	45	35	49	39
3/8"	24	22	16	35	25	45	35	50	40	54	44
7/16"	14	24	17	50	35	60	45	70	55	76	61
7/16"	20	34	26	55	40	70	50	80	60	85	68
1/2"	13	38	31	75	55	95	70	110	80	113	90
1/2"	20	52	42	90	65	100	80	120	90	126	100
9/16"	12	52	42	110	80	135	100	150	110	163	130
9/16"	18	71	57	120	90	150	110	170	130	181	144
5/8"	11	98	78	150	110	140	140	220	170	230	184
5/8"	18	115	93	180	130	210	160	240	180	255	204
3/4"	10	157	121	260	200	320	240	380	280	400	320
3/4"	16	180	133	300	220	360	280	420	320	440	350
7/8"	9	210	160	430	320	520	400	600	460	640	510
7/8"	14	230	177	470	360	580	440	660	500	700	560
1"	8	320	240	640	480	800	600	900	680	980	780
1"	12	350	265	710	530	860	666	990	740	1060	845

<b>METRIC</b>	5.8	8.8	9.8	10.9
Bolt Dia.	Oiled	Oiled	Oiled	Oiled
5mm	3.5	5	6	8
6mm	6	9	10.5	12
8mm	15	22	25	32
10mm	29	44	51	62
12mm	51	76	89	111

Per SAE J1701 and SAE J1701M specifications.

# UNIVERSAL FRONT DISC BRAKE CHECKLIST

- [ ] 1) Spindle Properly secured to ball joints and tie rods with castle nut and cotter pin.
- [ ] 2) All mounting bolts properly tightened.
- [ ] 3) Wheel bearings properly packed with grease.
- [ ] 4) Inner bearing must be installed before grease seal.
- [ ] 5) Rotor / bearings slide onto spindle with ease.
- [ ] 6) Washer, castle nut properly torqued and cotter pin installed.
- [ ] 7) Calipers installed and properly torqued.
- [ ] 8) Spin rotor and check for any interference. (If any interference is found, resolve problem before driving vehicle.)
- [ ] 9) Flex lines are properly installed with no interference.
- [ ] 10) Power booster (if applicable) installed properly.
- [ ] 11) Master cylinder bench bled according to the instructions.
- [ ] 12) All brake lines are properly tightened and free of leaks.
- [ ] 13) Turn wheels lock to lock and check for any interference.
- [ ] 14) Place wheel onto vehicle and spin the wheel to make sure there is no interference between the brakes and wheel.

# UNIVERSAL REAR DISC BRAKE CHECKLIST

- [ ] 1) All bolts on base bracket properly tightened.
- [ ] 2) All caliper mounting bolts properly tightened.
- [ ] 3) Rotor slides onto axle with ease.
- [ ] 4) No interference with rotor and any other parts (splash shield, brackets, etc.).
- [ ] 5) Caliper is centered over the rotor (because of difference in axle lengths, you may have to shim caliper in or out).
- [ ] 6) No interference with caliper and rotor.
- [ ] 7) All brake lines are tight with no leaks.
- [ ] 8) Parking brake is properly adjusted and not dragging, with vehicle on ground.
- [ ] 9) Adjustable proportioning valve installed (if applicable).
- [ ] 10) Distribution block modification made (if applicable).
- [ ] 11) Brake system properly bled.



**WITH EVERY NEW SET OF ROTORS AND PADS, YOU SHOULD GIVE YOUR VEHICLE 200 - 250 MILES OF EASY DRIVING TO PROPERLY SEAT THE PADS TO THE ROTORS. DO NOT TAKE THE VEHICLE UP TO 60 MPH AND JAM ON THE BRAKES BEFORE THE FIRST 200 - 250 MILE BREAK IN PERIOD IS OVER, OR YOU WILL GLAZE THE PADS AND ROTORS.**



# TECHNICAL SUPPORT / WARRANTY POLICY

You have just purchased a high quality product manufactured by Stainless Steel Brakes Corporation. To ensure proper installation, please read all instructions thoroughly before beginning your work. In most applications, your kit will install as the instructions indicate. From time to time, the original equipment on some vehicles may have slight variations that can effect the ease of installation. Minor modifications during installation may be necessary to successfully install your kit. If modifications are necessary, please refer to a licensed mechanic and/or contact our technicians for modification approval.

Installation of braking, steering and suspension components and systems require proper procedures and methods to assure safe and correct operations.

Always test completed installations in a safe area. For proper operation, and if questionable, correct prior to placing the vehicle in service.

Our company maintains experienced technical service personnel, including a licensed professional engineer who have the knowledge and background to help you with installation or operating problems. Our technicians may be reached by telephone at 716-759-8666, Monday - Friday, 9:30 AM - 5:30PM EST. If unavailable, please leave a brief message, including your day phone number, and they will return your call as soon as possible. You can also e-mail us at [tech@ssbrakes.com](mailto:tech@ssbrakes.com). If you prefer, we will be pleased to speak with your installing mechanic.

If it becomes necessary to return an item for any reason, a Return Goods Authorization (RGA) Number must first be obtained by telephone. A simple written description of the reason for the return should be included with the part. Your name and phone number should also be included. (Use the attached form.) "Defective" is not enough of a description. See following page for detailed instructions.

We urge you not to disassemble or alter any part supplied, nor purchase additional parts or services in order to facilitate installation. Lack of prior approval by our company will constitute a violation of our warranty with consequent denial of reimbursement for parts - faulty or not.

Before contracting outside professional assistance, please be aware that we do not reimburse for labor charges under any circumstance. Consult our standard warranty card provided with your order.

## **NEED TO RETURN A PART? FOLLOW THESE INSTRUCTIONS.**

- > Did you call our Technical Assistance (716-759-8666) before you decided to make a return? If not, you should do so now.
- > You must have a Return Goods Authorization Number (RGA) issued to you prior to returning any item. If you return without an RGA #, you run the risk of not receiving credit.
- > Make sure to include the completed Return Form with invoice and RGA # with your parts.
- > Whenever possible, please return item in original box with invoice and RGA # clearly marked on the outside of the box.
- > Any return must be shipped postage paid - NO collect shipments will be accepted.
- > All warranty items will be sent ground UPS. Any other type of shipping service will be at customer's expense.

It is a good idea to insure the returned part(s) for the full value to protect yourself against loss. We strongly suggest you ship by UPS or U.S. Mail, no BUS or AIR shipments will be accepted. All foreign returns must have authorization.

**NOTE:** Under no circumstance should any product(s) or part(s) be returned without prior authorization number (RGA #). Any part which, in our opinion, shows evidence of being used, installed contrary to SSBC instruction, defaced, subjected to improper handling, packaging or shipping by the customer will not be eligible for exchange, refund or warranty consideration.

# RETURN FORM

Name: \_\_\_\_\_

Invoice #: \_\_\_\_\_

Address: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

\_\_\_\_\_

Purchased From: \_\_\_\_\_

Phone: \_\_\_\_\_

List item(s) and a detailed explanation of why you are returning the item(s):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**RGA #** \_\_\_\_\_



Use this label for your package.

From: _____ _____ _____	
TO: Stainless Steel Brakes Corp. 11470 Main Road Clarence, NY 14031	
RGA #: _____	Invoice #: _____