

[ c o r k s p o r t ]



### Installation Instructions for CS 2006-up Mx5 Stainless Braided Brake Line Kit

#### Tools required

- 8mm wrench
- 10mm wrench
- 12mm wrench
- 17mm wrench
- Wire cutters
- Pliers
- Brake Fluid
- Floor Jack
- Jack stands

#### Contents

- CS Brake Line Set
- 5 Page Install Instructions

**DANGER:** Installation of the brake lines should be done by a professional mechanic. Failure of the brake system could lead to significant property damage and/or death. CorkSport nor any of its employees or owners will not be liable for the outcome of the installation from using these instructions. The installation instructions are for reference only.

Thank you for your purchase. If you have any questions please call Cork Sport at 360 260 CORK



## FRONT BRAKE LINES

Step 1: Jack up vehicle and secure it on jack stands on a level surface.

Step 2: Remove front wheel and locate the front brake line shown below in the picture.



Step 3: Place a pan/container under work area to catch brake line fluid that will drain from the caliper.

**Warning:** Be very careful not to spill/splash any brake fluid on car paint. If incident occurs rinse immediately to avoid damage to cars paint.

Step 4: Remove the front brake line from the caliper. This will require a 12mm wrench.

Step 5: Remove the 12mm bolt that holds the brake line to the upper suspension arm. On the junction for the brake line to the car body take a 10mm wrench and loosen the fitting. Once it is loose remove the 12mm bolt that holds the brake line to the car.



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Step 6: Locate the front line in the brake line kit it will be a longer line. The lines are the same left to right.

Step 7: Install the new CorkSport brake line to the caliper with the supplied bolt and copper crush washers. The order for assembly is the bolt, copper crush washer, brake line, copper crush washer.

Step 8: Hand tighten the bolt into the caliper. Make sure the brake line follows the same path as the original.

Step 9: Slide the bracket on the brake line and bolt it to the upper suspension arm with the original bolt.

Step 10: Connect the new brake line to the original metal hard line and tighten by hand.

Step 11: Take the 17mm wrench and 10mm wrench and tighten the two lines together.

Step 12: The new brake line has a notch in the brake line. Slide it into the holder for the original brake line. Take one of the supplied wire ties and secure the brake line to the bracket as shown below. Use the wire cutters to cut off the excess wire tie.



Step 13: Tighten the 14mm bolt on the caliper. Be careful not to over tighten the bolt.

Step 14: Tighten the brake line bracket on the upper suspension arm. Make sure the line does not interfere with any of the suspension components.

Step 15: Repeat the instructions for the other front brake line.

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## REAR BRAKE LINES

Step 1: Place a pan/container under work area to catch brake line fluid that will drain from the caliper.

**Warning:** *Be very careful not to spill/splash any brake fluid on car paint. If incident occurs rinse immediately to avoid damage to cars paint.*

Step 2: Remove the rear brake line from the caliper. This will require a 12mm wrench.



Step 3: Loosen the 10mm nut from the stock brake line on the opposite end of the line.

Step 4: Once the 10mm fitting is loose remove the flat retainer clip from the end of the line. This will allow you to remove the stock brake line.

Step 5: Locate the replacement CorkSport brake line in the package. At this point you should only have two short lines, of equal length remaining.

Step 6: Install the brake line onto the caliper in the following order with the new bolt, copper crush washer, brake line, copper crush washer. Make sure the replacement line is fitted through the line bracket shown below.



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Step 7: On the opposite end of the brake line the fitting will only fit in the car body bracket one way. Spin the line until it fits into the bracket high enough that the flat retainer clip will hold it.

Step 8: Re-install the stock 10mm fitting and tighten.

Step 9: Tighten the 14mm bolt into the caliper. Do not over tighten the bolt. Repeat for the other rear brake line.

### BLEED BRAKE SYSTEM

Step 1: You will need to bleed the brake system. Bleed the calipers in the following order. #1 right rear, #2 left rear, #3 right front, #4 left front. The bleed screws are 8mm in size.

Method #1 is to get a two foot section of 5/32 diameter hose and a 1 liter plastic bottle. Put the hose on the end of the bleed screw. Put the other end of the hose in the 1 liter bottle. Fill the bottle with enough brake fluid to submerge the end of the hose. Loosen the brake bleed screw and make sure the hose stays attached to the end of it. Pump the brake pedal in the car until there are no bubbles coming from the hose in the 1 liter bottle. Tighten the bleed screw then remove the rubber hose. Check the brake fluid level in the master cylinder and keep it at the full line after bleeding each caliper.

Method #2 requires two people, a two foot section of 5/32 diameter hose, and a 1 liter plastic bottle. Put the rubber hose on the bleed screw and the other end in the 1 liter bottle. Have the extra person pump the brake pedal until there is pedal pressure. Have the extra person hold the pedal with pressure while you loosen the bleed screw. The pedal will go to the floor. Have the extra person hold the pedal to the floor until you tighten the bleed screw. Repeat the procedure 3 times per caliper. Check the brake fluid level and keep it at the full line after bleeding each caliper.

Step 2: Once the system has been bled, test the brakes before moving the car to check for leaks and make sure the brakes are functioning properly. If there are no leaks put on the wheels, take the car off the jack stands, and go for a drive.

NOTE: The pedal feel will change and the brakes will engage higher up the pedal. The difference in pedal feel is due to the new brake lines not expanding under pressure like the stock lines do.