

# CorkSport Racepipe 2007-2011 Mazdaspeed3



A  
X  
E  
-  
6  
-  
1  
1  
4



**WARNING:** Make sure vehicle is completely cooled down prior to starting installation. Exhaust systems and especially catalytic converters can get hot enough to seriously injure you. Use a fan to cool off the exhaust system and the catalyst.



**WARNING:** Thoroughly read the precautions and instructions that come with your Floor Jack and Jackstands as well as your vehicle's owners manual for appropriate jacking methods and jacking / support points. Always double up support on a vehicle - Jack Stands and Floor Jack /etc.



**NOTE:** When under the car, you should be wearing mechanics gloves or some sort of hand protection from cuts - the quilted aluminum heatshields on the Speed3 have deceptively sharp edges.



**NOTE:** These instructions were written for reference only and the use of a factory service manual is recommended. Please read these instructions thoroughly prior to starting installation. These products are sold for use off public roads. Any product that removes the vehicle emissions components (like catalytic converters) or effect functionality of vehicle emission controls must not be used on public roads and highways.

Part Number: Axe-6-114 Time Estimate: 45-60 min Wrench Rating: 2/5	Model MazdaSpeed3	Year 2007-2011	Trim All
---	----------------------	-------------------	-------------

<b>TOOLING LIST:</b> 3/8 Drive Ratchet 6" 3/8 Drive Extension 14mm Long Socket (Wobbly Style Best) 17mm Long Socket (Wobbly Style Best) 10mm Long Socket 12mm Socket 14mm Ratchet Wrench	Flathead Screwdriver Square shank best. Penetrating Oil (PB Blaster) Silicone Spray (WD-40)	<b>PARTS LIST:</b> CorkSport Power Series Racepipe 2x M10x1.25 60mm (70mm for 80mm Outlet) Hex Head Bolts 2x Large M10 Washers 2x M10x1.25 Hex Nuts 1x 80mm Donut Gaskets (80mm Outlet Version Only) 1x 65mm Spacer (Only Used on Stock Downpipe) THE 65mm KIT UTILIZES YOUR FACTORY GASKETS WITH THE INCLUDED SPACER. IF YOU ARE EXPERIENCING AN EXHAUST LEAK PRIOR TO INSTALLATION, NEW FACTORY GASKETS ARE RECOMMENDED. CONTACT US AT THE NUMBER BELOW FOR FURTHER DETAILS.
---	---	---



For help with installation, call 360-260-CORK (2675)

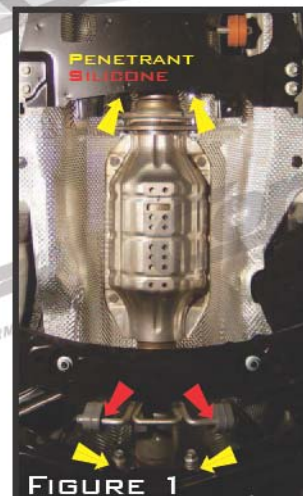


# INSTALLATION INSTRUCTIONS: CORKSPORT POWER SERIES RACEPIPE 2007-2011 MAZDASPEED3

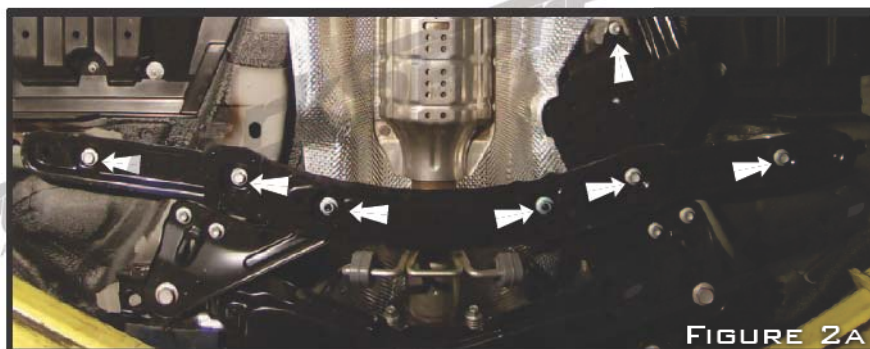
## 1: SUPPORT CAR ON FLOOR JACK/JACKSTANDS OR LIFT.

USE A FLOOR JACK AND JACKSTANDS TO GAIN ACCESS TO THE UNDERSIDE OF THE VEHICLE.

ALWAYS REFER TO THE FLOOR JACK AND JACKSTAND MANUFACTURERS INSTRUCTIONS AS WELL AS THE FACTORY OWNERS MANUAL FOR YOUR VEHICLE TO DETERMINE JACKING POINTS AND SUPPORT POINTS. ALTERNATELY, USE AN AUTOMOTIVE LIFT TO GAIN ACCESS TO THE UNDERSIDE OF THE VEHICLE. SPRAY THE FOUR FLANGE BOLTS SHOWN IN **FIGURE 1** WITH PENETRATING OIL, PREFERABLY WHEN THE EXHAUST IS STILL WARM. SPRAY THE TWO EXHAUST HANGER BUSHINGS SHOWN IN **FIGURE 1** WITH A GENEROUS AMOUNT OF WD-40 OR SILICONE SPRAY ON EITHER SIDE OF THE HANGER.

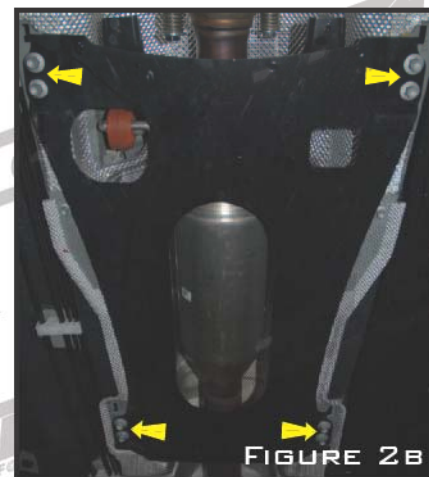


## 2: REMOVE CROSSMEMBER, FRONT AND REAR FLANGE FASTENERS.

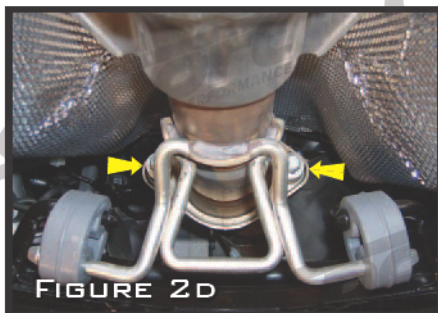


A) REMOVE THE FRONT CHASSIS CROSSMEMBER BY REMOVING THE FASTENERS SHOWN IN **FIGURE 2A**: 4X 14MM BOLTS, 2X 14MM NUTS AND 1X 10MM BOLT HOLDING BRAKE LINE SHEILD TO THE CHASSIS.

B) REMOVE 8X 12MM BOLTS FROM CENTER CHASSIS SUPPORT MEMBER SHOWN IN **FIGURE 2B**. SLIDE THE SUPPORT MEMBER HOOKS OUT OF THE FLOOR PAN AND SET ASIDE.



C) REMOVE 14MM LOCKING NUTS FROM SPRING LOADED STUDS ON THE REAR FLANGE WITH A 14MM SOCKET AND 3/8" DRIVE RATCHET. THESE ARE EXTREMELY TIGHT. REALISTICALLY, YOU'LL PROBABLY END UP UNTHREADING THE STUDS OUT OF THE WELD NUTS ON THE FACTORY CATPIPE.



D) REMOVE 2X 14MM SPRING LOADED HEX BOLTS SHOWN IN **FIGURE 2D** FROM THE FRONT FLANGE CONNECTING THE FACTORY CATPIPE TO THE FACTORY DOWNPIPE. SET THESE ASIDE AS THEY WILL BE REUSED.

## 3: REMOVE EXHAUST HANGER BUSHINGS AND CATALYST PIPE; INSPECT FACTORY GASKET.

A) THE FACTORY CATALYST PIPE IS NOW TETHERED TO THE CHASSIS ONLY BY THE EXHAUST HANGER BUSHINGS SHOWN IN **FIGURE 2D**. PUSH THE ENTIRE CATPIPE TO ONE SIDE TO GAIN AS MUCH REACH ON PUSHING ONE OF THE BUSHINGS OFF OF THE CATPIPE. PRESS THAT BUSHING OFF OF THE HANGER BY HAND AS SHOWN IN **FIGURE 3A** (SEE VIDED DEMONSTRATION HERE). THIS IS DIFFICULT, YOU HAVE TO REALLY YARD ON THESE TO GET THEM OFF. IF THEY FEEL LIKE THEY ARE STICKING TO THE HANGER, SPRAY MORE WD-40 OR SILICONE SPRAY. ONCE YOU GET ONE OF THEM OFF, THE OTHER SLIDES OFF EASILY.

B) REMOVE AND INSPECT THE FACTORY DONUT GASKET ON THE DOWNPIPE. REPLACE IF LEAKING.

(STOCK DOWNPIPE ONLY) INSERT THE INCLUDED SPACER ON THE DOWNPIPE FOLLOWED BY THE DONUT.

FOR HELP WITH INSTALLATION, CALL 360-260-CORK (2675)



# INSTALLATION INSTRUCTIONS: CORKSPORT POWER SERIES RACEPIPE 2007-2011 MAZDASPEED3

## 4: INSTALL GASKET.

A) FOR THE STOCK OUTLET 65MM RACEPIPES, REMOVE THE FACTORY GASKET FROM THE FACTORY CATALYST PIPE BY GENTLY PRYING IT OFF WITH YOUR FLATHEAD SCREWDRIVER AND INSTALL IT OVER THE OUTLET OF THE CORKSPORT RACEPIPE.

B) FOR THE 80MM OUTLET RACEPIPES, THE 80MM DONUT GASKET WILL COME INSTALLED ON THE PIPE. A SECOND SPARE DONUT GASKET IS ALSO INCLUDED AS A SPARE.

## 5: INSTALL CORKSPORT RACEPIPE.

A) PLACE THE CORKSPORT RACEPIPE INTO ITS LOCATION BETWEEN THE DOWNPIPE AND FACTORY EXHAUST SYSTEM. DO NOT CONNECT THE HANGERS BEFORE INSTALLING THE PIPE.

B) SLIDE FLOATING FRONT FLANGE FORWARD AND SEAT FLARED END OF RACEPIPE OVER FACTORY DONUT GASKET. THREAD FACTORY HEX BOLTS AND SPRINGS THROUGH THE FLOATING FLANGE AND INTO THE DOWNPIPE. TIGHTEN THEM SNUG, FINGER TIGHT, IN A WAY THAT ALLOWS A LITTLE BIT OF MOTION. YOU'LL WANT TO GET THE PIPE ALIGNED PROPERLY BEFORE TIGHTENING ANYTHING.

C) THE REAR FLANGE OF THE RACEPIPE USES A SET OF 60MM (FOR 65MM RP) OR 70MM (FOR 80MM RP) M10 HEX BOLTS, LARGE WASHERS, FACTORY SPRINGS AS SHOWN IN **FIGURE 5E**. RUN THAT STACKUP OF FASTENERS THROUGH THE FACTORY EXHAUST FLANGE AND INTO THE THREADS ON THE CORKSPORT RACEPIPE. TIGHTEN THESE HAND TIGHT AS WELL.

D) FINISH ALIGNING THE RACEPIPE, ENSURING THAT THE GASKETS ARE CENTERED PROPERLY AND SEATED. TIGHTEN THE BOLTS ON THE FRONT AND REAR FLANGE SO THE SPRINGS HAVE AROUND 1MM SPACE BETWEEN THE COILS. INSTALL JAMB NUTS ON THE REAR BOLTS AS SHOWN IN **FIGURE 5D**.

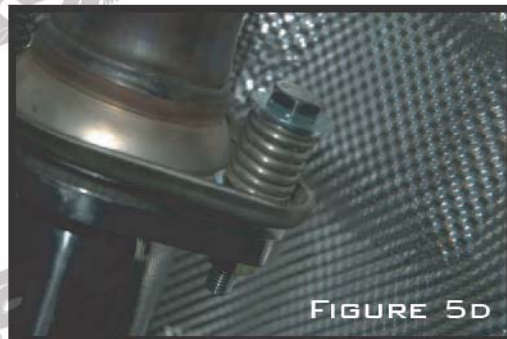


FIGURE 5D

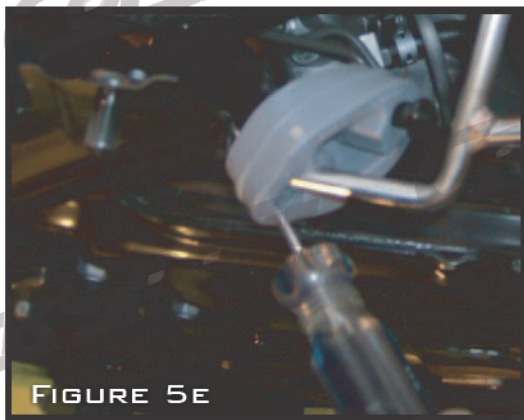


FIGURE 5E

E) INSTALL THE EXHAUST HANGER BUSHING (PREFERABLY WITHOUT INJURING YOURSELF). THE EASIEST WAY TO DO THIS IS TO RUN A SQUARE SHANK FLATHEAD SCREWDRIVER THROUGH THE HOLE IN THE BUSHING AND PRY THE BUSHING ON BY LEVERAGING OFF THE EXHAUST HANGER. SEE **FIGURE 5E**. MOST IMPORTANT THING TO REMEMBER IS THIS PROCESS TAKES MORE FINESSE THAN FORCE. ONCE INSTALLED, THE RACEPIPE SHOULD BE CENTERED BETWEEN THE BUSHINGS. SEE THE VIDEO ON THE PRODUCT PAGE OF OUR WEBSITE FOR A DEMONSTRATION.

## 6: BUTTON UP & TEST RUN

A) REINSTALL THE FRONT CHASSIS BRACE (4X 14MM HEAD HEX BOLTS, 2X 14MM NUTS, 1X 10MM). TORQUE THE 14MM BOLTS & NUTS TO 22-28 LB FT. TIGHTEN THE 10MM HAND TIGHT (~10 LB FT).

B) REINSTALL CENTER CHASSIS BRACE (8X 12MM BOLTS) AND TORQUE TO 22-28 LB FT.

C) TAKE THE CAR DOWN OFF OF THE JACKSTANDS AND START IT. LISTEN FOR ANY EXHAUST LEAKS AND IF YOU HEAR ANY, CHECK ALIGNMENT AND MAKE SURE THE FASTENERS ARE TIGHT. RETIGHTEN EXHAUST BOLTS AFTER 2-3 WEEKS/1000 MILES DRIVING.