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# CORKSPORT RACEPIPE 2006-2007 MAZDASPEED6



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**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 SPEED6 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.

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| <b>PART NUMBER:</b><br>ATE-6-112<br><b>TIME ESTIMATE:</b><br>45-60 MIN<br><b>WRENCH RATING:</b><br>2/5  | <b>MODEL</b><br>MAZDASPEED6 | <b>YEAR</b><br>2006-2007  | <b>TRIM</b><br>ALL |
| <b>TOOLING LIST:</b><br>3/8 DRIVE RATCHET (PB BLASTER)<br>6" 3/8 DRIVE EXTENSION SILICONE SPRAY<br>14MM LONG SOCKET (WD-40)<br>(WOBBLY STYLE BEST)<br>17MM LONG SOCKET<br>(WOBBLY STYLE BEST)<br>10MM LONG SOCKET<br>12MM SOCKET<br>14MM RATCHET WRENCH |                             | <b>PARTS LIST:</b><br>CORKSPORT POWER SERIES RACEPIPE<br>2x M10x1.25 70MM HEX HEAD BOLTS<br>2x M10x1.25 35MM HEX HEAD BOLTS<br>2x M10 STANDARD FLAT WASHERS<br>2x M10 LARGE WASHERS<br>4x M10x1.25 HEX NUTS<br>2x M10 LOCK WASHERS<br>1x 80MM FLAT GASKET |                    |

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# INSTALLATION INSTRUCTIONS: CORKSPORT POWER SERIES RACEPIPE 2006-2007 MAZDASPEED6

## 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 FOUR FASTENERS SHOWN IN FIGURE 1 WITH PENETRATING SPRAY AND LET EXHAUST COOL DOWN BEFORE MOVING TO STEP 2.

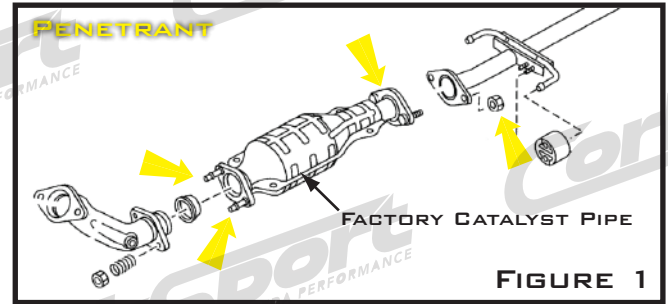


FIGURE 1

## 2: REMOVE FACTORY CATALYST PIPE.



FIGURE 2A



FIGURE 2B

A) REMOVE THE TWO 14MM NUTS HOLDING THE FWD SECTION OF THE FACTORY CATALYST PIPE TO THE DOWNPIPE. THE STUDS MAY COME OUT, IF SO, DON'T WORRY ABOUT IT. RETAIN THE TWO SPRINGS FROM THE FACTORY FASTENERS.

B) REMOVE THE TWO 17MM NUTS FROM THE EXHAUST (SHOWN IN FIGURE 2B) TO THE FACTORY CATALYST PIPE WHILE SUPPORTING THE CATALYST PIPE WITH ONE HAND.

C) SWING THE FACTORY CATBACK EXHAUST REARWARD ON ITS HANGERS AND EXTRACT THE FACTORY CATALYST PIPE FROM THE VEHICLE.

**⚠ WARNING:** BE CAREFUL WITH THE FACTORY CATALYST PIPE, THE CERAMIC SUBSTRATE INSIDE IS FRAGILE AND CAN BE DAMAGED IF DROPPED OR STRUCK.

## 3: INSTALL RACEPIPE

A) PLACE THE CORKSPORT POWER SERIES RACEPIPE IN THE PLACE OF THE FACTORY SECONDARY CATALYST RACEPIPE WITH THE PROVIDED 80MM GASKET IN THE REAR FLANGE. INSTALL THE 35MM BOLTS THROUGH A PAIR OF THE STANDARD SIZE FLAT WASHERS, INTO THE REAR RACEPIPE FLANGE AND THEN PLACE TWO LOCK WASHERS OVER THE THREADS AND INSTALL THE M10 NUTS. TORQUE EVENLY, ALTERNATING BETWEEN THE TWO FASTENERS AND FINALIZING WITH 15-20 FT LB OF TORQUE. WATCH THE GASKET SURFACE AS YOU TORQUE THE FASTENERS DOWN. IF THE FLANGE IS BOWING, YOU'RE TIGHTENING THE CONNECTION WAY TOO TIGHT.

B) INSTALL THE 70MM LONG M10 HEX HEAD BOLTS THROUGH A PAIR OF THE LARGE AREA WASHERS, THROUGH THE FACTORY TENSION SPRINGS AND INTO THE DOWNPIPE FLANGE TOWARD THE FORWARD RACEPIPE FLANGE AS SHOWN IN FIGURE 3B.

# INSTALLATION INSTRUCTIONS: CORKSPORT POWER SERIES RACEPIPE 2006-2007 MAZDASPEED6

## 3: INSTALL RACEPIPE (CONT.)

C) THREAD THE FRONT FASTENER STACKUP INTO THE CORKSPORT RACEPIPE FRONT FLANGE (TAPPED HOLES) AND EVENLY TORQUE, ALTERNATING BETWEEN THE TWO BOLTS UNTIL THE SPRINGS ARE COMPRESSED TO NO MORE THAN A 1MM GAP BETWEEN THE COILS.

D) INSTALL A SET OF STANDARD FLAT WASHERS AND SECOND SET OF M10 NUTS OVER THE EXPOSED THREADS ON THE FAR SIDE OF THE FLOATING FLANGE. TORQUE TO 10-15 FT LB OF TORQUE. SEE FIGURE 3D FOR FULL FASTENER STACKUP DIAGRAM.

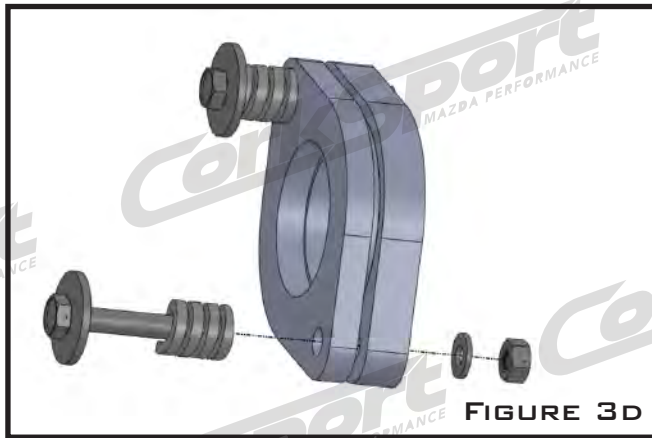


FIGURE 3D

PARALLEL WITH THE FACTORY DOWNPIPE FLANGE, ENSURING EVEN PRESSURE ON THE GASKET. ISSUES WITH THE REAR FLANGE ARE ALMOST ALWAYS DUE TO OVERTORQUING OF THE FLANGE (INDICATED BY A LEAK IN THE MIDDLE OF THE RADIUS OF THE FLANGE. LOOSEN THE FLANGE AND RETIGHTEN APPROPRIATELY.

B) FOR JACKSTAND INSTALLATIONS, REMOVE THE CAR FROM THE JACKSTANDS AND START THE VEHICLE LISTENING FOR LEAKS. TEST DRIVING THE VEHICLE OR ALLOWING IT TO IDLE FOR AN EXTENDED PERIOD OF TIME AND INSPECTING AFTERWARD WILL SHOW SOOT MARKS AT LEAK POINTS IF YOU'RE HEARING ANY LEAKS. WITH LARGER LEAKS YOU CAN SEE THE EXHAUST COMING OUT OF THE GASKET.

C) ENJOY YOUR NEW RACEPIPE, BE SAFE ON THE ROADS AND OUT AT THE TRACK.

## WHAT'S NEXT?

NOW THAT YOU'VE GOT OUR RACEPIPE INSTALLED, CONSIDER OUR CATBACK EXHAUST FOR THE 2006-2007 MS6. SPORTING A FULL DUAL 80MM EXHAUST SYSTEM AND FITTING INTO THE FACTORY REAR VALENCE BEZELS AS WELL AS PICKING UP ALL OF THE FACTORY HANGER LOCATIONS, THIS SYSTEM IS GORGEOUS AND SOUNDS PHENOMENAL. \$699 ADD OUR CORKSPORT URETHANE EXHAUST HANGERS FOR ANOTHER \$32.

FIGURE 3B



## 2: BUTTON UP AND LEAK CHECK

A) IF YOUR VEHICLE IS ON A LIFT RATED FOR A RUNNING VEHICLE, YOU CAN START THE VEHICLE AND CHECK FOR LEAKS AROUND THE PERIMETER OF THE EXHAUST FLANGES. IF YOU ENCOUNTER LEAKS, ENSURE THAT THE DONUT GASKET IS SEATED PROPERLY ON THE FRONT OF THE RACEPIPE AND THAT IT IS IN GOOD SHAPE (NO GASHES OR CREASES FROM THE FACTORY CATALYST PIPE). ALSO ENSURE THAT THE FLOATING FRONT FLANGE OF THE RACEPIPE IS



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