

## CorkSport Cold Air Box for COBB SF Intake



**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.



**NOTE:** These instructions assume you are installing the COBB intake at the same time as installation of the Airbox, and pick up after Step 1, Page 4 of the COBB Installation Instructions. If you are installing the airbox onto an already installed intake, you will have to remove the air filter, bracket and MAF housing prior to installation of the air box.



**WARNING:** Disconnection of the battery is recommended for this installation - refer to your factory service or owners manual for any specific requirements of your model year.





<b>Part Number:</b> AXE-6-122 <b>Time Estimate:</b> 30-45 min <b>Wrench Rating:</b> 1/5	<b>Model</b> MazdaSpeed3	<b>Year</b> 2007-2009	<b>Trim</b> All
<b>Tooling List:</b> 3/8 Drive Ratchet 6" 3/8 Drive Extension 8mm long socket 10mm Long Socket 12mm Long Socket Flathead Screwdriver Phillips Screwdriver 5mm Allen Wrench	<b>Optional Tooling:</b> Handheld Drill 1/4" Drill Bit	<b>Parts List:</b> CorkSport Cold Air Box Includes: 6x M6 Cap Screws 6x M6 Flat Washers 3x M6x1.0 20mm Hex Bolts 3x M6x1.0 Flange Nuts Phillips Push-Lock Fastener	



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

# INSTALLATION INSTRUCTIONS: CORKSPORT COLD AIR BOX FOR COBB SF INTAKE

## HOW THE INSTRUCTIONS WORK

TO BEST COVER ALL OF OUR CUSTOMERS EXPERIENCE LEVELS AND FAMILIARITY WITH THE SYSTEMS ON THEIR MAZDA, WE HAVE BROKEN OUR INSTRUCTIONS DOWN INTO NUMBERED STEPS, EACH OF WHICH HAS THE CORE INFORMATION IN THE HEADER WITH ADDITIONAL DETAIL AS NEEDED DEPENDING ON YOUR EXPERIENCE. IF YOU HAVE A HIGH LEVEL OF EXPERIENCE, YOU CAN JUST USE THE CHECKLIST BELOW AND THEN SKIP TO THE STEP NUMBER WHERE YOU NEED HELP OR ASSISTANCE. VIDEO ASSISTANCE MAY ALSO BE AVAILABLE FOR CERTAIN STEPS AND IS INDICATED BY THE HD ICON:  AREAS WHERE THERE IS A SAFETY CONCERN ARE INDICATED BY THE WARNING ICON:  CAUTIONARY AREAS (WHERE PARTS ARE FRAGILE, ETC) ARE INDICATED BY THE CAUTION ICON:  KEY TIPS ARE INDICATED WITH THE LIGHT BULB ICON: 



## OVERVIEW/CHECKLIST:

THIS IS AN OVERVIEW OF EACH OF THE STEPS OF THE BUILD. YOU CAN USE THIS AS A REFERENCE AND A CHECKLIST AS YOU BUTTON UP THE WORK ON THE CAR. THE INSTRUCTIONS FOR THIS INSTALLATION BEGIN FROM THE POINT OF STEP 1 ON PAGE 4 OF THE COBB SF INTAKE INSTRUCTIONS. IF YOU HAVE PREVIOUSLY INSTALLED THE COBB SF INTAKE, THE FILTER/MAF HOUSING AND BRACKET MUST BE REMOVED PRIOR TO BEGINNING THIS INSTALLATION.

- 1: SITUATE COLD AIR BOX INTO ENGINE COMPARTMENT.
- 2: INSTALL COBB INTAKE BRACKET ONTO STUDS.  
LEAVE NUTS LOOSE SO BRACKET CAN BE ADJUSTED.
- 3: INSTALL MAF HOUSING ONTO SILICONE COUPLER.
- 4A: INSTALL MAF HOUSING FASTENERS
- 4B: TIGHTEN MAF HOUSING NUTS TO 15-20 INCH POUNDS OF TORQUE.  
CHECK FOR ALIGNMENT OF COLD AIR BOX TO HEADLIGHT ASSEMBLY.
- 4C: TIGHTEN THE TWO NUTS ATTACHING THE MAF BRACKET TO THE CAR.
- 4D: INSTALL THE FILTER ONTO THE MAF HOUSING AND TIGHTEN HOSE CLAMP.
- 4E: TIGHTEN HOSE CLAMP CONNECTING MAF HOUSING TO SILICONE COUPLER.
- 5: INSTALL AIRBOX LID - SEE FIGURE 5 FOR ORDER OF INSTALLATION.
- 6: OPTIONAL: DRILL & INSTALL FOR PUSH-LOCK CONNECTOR.
- 7: CHECK ALL CONNECTIONS IN COBB INTAKE FOR TIGHT FIT, CHECK MAF SENSOR TO MAF HOUSING FIT/ALIGNMENT.



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



# INSTALLATION INSTRUCTIONS: CORKSPORT COLD AIR BOX FOR COBB SF INTAKE

## 1: SITUATE COLD AIR BOX INTO ENGINE COMPARTMENT.

WITH THE COBB SF INTAKE FILTER, MAF HOUSING AND SUPPORT BRACKET REMOVED FROM THE VEHICLE, INSTALL THE CORKSPORT COLD AIR BOX INTO THE VEHICLE AS SHOWN IN FIGURE 1. INSTALLATION OF THE BRACKET LATER ON WILL TRIANGULATE THE BOX INTO THE APPROPRIATE POSITION, BUT AT THIS POINT IT NEEDS TO BE ROUGHLY PLACED AS SHOWN.



FIGURE 1

### BRACKET MOUNTING STUDS



FIGURE 2

## 2: INSTALL INTAKE BRACKET

INSTALL THE COBB SF BRACKET ONTO THE TWO STUDS FORWARD OF THE BATTERY BOX AS SHOWN IN FIGURE 2 AND LOOSELY INSTALL M6 FACTORY NUTS OVER THE STUDS TO ALLOW SOME MOVEMENT TO THE BRACKET.

## 3: INSTALL MAF HOUSING

A) INSTALL THE COBB MAF HOUSING THROUGH THE HOLE IN THE BOX AND INTO THE SILICONE ELBOW HOSE PREVIOUSLY INSTALLED AS SHOWN IN FIGURE 3A. IF YOU HAVE NOT

PREVIOUSLY INSTALLED THE COBB INTAKE, IT IS BEST TO HAVE SWAPPED YOUR MAF SENSOR INTO THE MAF HOUSING PRIOR TO ATTACHING THE HOUSING THROUGH THE BOX AND INTO THE ELBOW HOSE. ⚠️ THE MAF SENSOR IS A SENSITIVE INSTRUMENT AND SHOULD BE HANDLED AS SUCH. TAKE CARE NOT TO DROP THE SENSOR AND IF IT IS OUT OF THE VEHICLE FOR AN EXTENDED PERIOD OF TIME, KEEP IT IN A SAFE PLACE. DO NOT USE ANY TYPE OF SPRAY OR COMPOUND ON THE SENSOR THAT MAY BAKE ONTO THE HEATING ELEMENT.

B) INSTALL THE MAF SENSOR HARNESS ONTO THE MAF SENSOR UNTIL IT CLICKS. THE PLUG SHOULD BE ALIGNED SO THAT THE LATCH MECHANISM FACES UPWARD.



FIGURE 3A

## 4: INSTALL MAF HOUSING COMPONENTS

A) FEED THREE M6 HEX BOLTS PROVIDED WITH THE COLD AIR BOX THROUGH THE THREE MAF HOUSING HOLES, THROUGH THE HOLES IN THE COLD AIR BOX AND THROUGH THE COBB BRACKET (FOR THE BOTTOM TWO BOLTS) AND INSTALL FLANGE NUTS ON FAR SIDE OF BRACKET.

B) TIGHTEN NUTS TO 15-20 INCH POUNDS OF TORQUE, ENSURING THAT THE CONTOUR OF THE CAB IS FITTING PROPERLY TO THE HEADLIGHT ASSEMBLY AS SHOWN IN FIGURE 4B.

C) TIGHTEN THE TWO NUTS THAT ATTACH THE BRACKET TO THE MOUNT POINT ON THE CAR.

D) INSTALL THE FILTER ONTO THE MAF HOUSING AND TIGHTEN THE COBB PROVIDED HOSE CLAMP ONTO THE FILTER.

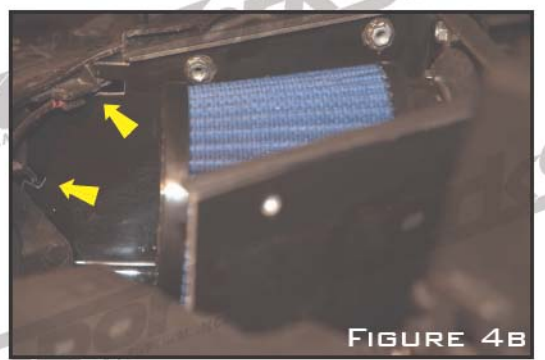


FIGURE 4B



# INSTALLATION INSTRUCTIONS: CORKSPORT COLD AIR BOX FOR COBB SF INTAKE

## 4: INSTALL MAF HOUSING COMPONENTS (CONTINUED)



FIGURE 4E

E) TIGHTEN THE COBB PROVIDED HOSE CLAMP BETWEEN THE MAF HOUSING AND SILICONE ELBOW. WHEN COMPLETE, THE ASSEMBLY SHOULD APPEAR AS SHOWN IN FIGURE 4E.

## 5: INSTALL AIR BOX LID

INSTALL THE LID OF THE COLD AIR BOX CAREFULLY, ALIGNING THE HOLES IN THE LID WITH THE THREADED BOSSES IN THE AIRBOX. THE EASIEST ORDER OF INSTALLING THE FASTENERS IS IN THE ORDER SHOWN IN FIGURE 5A. AS YOU INSTALL THE FASTENERS, YOU MAY HAVE TO SLIGHTLY COMPRESS THE SEALING FOAM IN

ORDER TO ALIGN THE HOLES PROPERLY. THE FINAL FASTENER (#6 IN FIG. 5) HAS VERY LITTLE CLEARANCE FOR AN ALLEN WRENCH AND MUST BE INSTALLED BY HAND, SO THE HOLE FOR THAT FASTENER HAS BEEN ENLARGED. FOR ALL FASTENERS, IT IS BEST TO START THEM BY HAND UNTIL THEY BEGIN THREADING INTO THE NUTS AND THEN TIGHTEN THEM DOWN WITH A 5MM ALLEN WRENCH TO 20 INCH POUNDS. THIS PREVENTS CROSS THREADING.

## 6: OPTIONAL: DRILL & INSTALL PUSH-LOCK CONNECTOR

A) ONCE THE LID IS INSTALLED AND THE BOX IS RIGIDLY FIXED IN PLACE WITH THE COBB SF INTAKE BRACKET, YOU CAN CHOOSE TO INSTALL THE FACTORY PUSH-LOCK CONNECTOR AS SHOWN IN FIGURE 5.

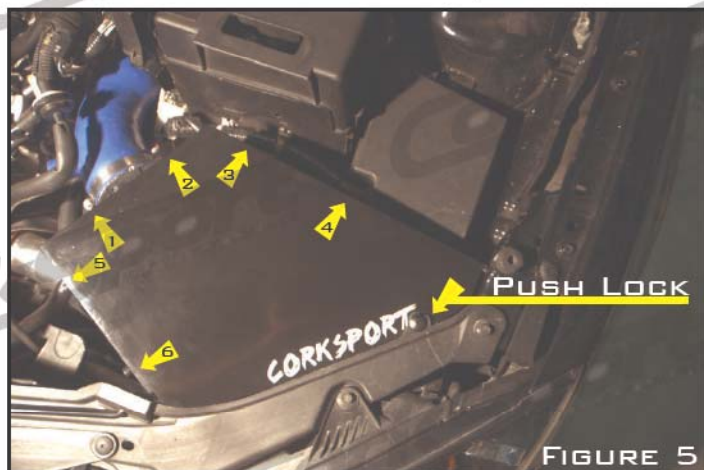



FIGURE 5

B) USING A 1/4" DRILL BIT, MATCH DRILL A HOLE IN THE TOP OF THE BOX AT THE LOCATION OF THE FACTORY AIRBOX TAB SEEN IN FIGURE 5. VACUUM ANY DUST OUT OF THE HOLE AND PUSH THE PUSH LOCK CONNECTOR THROUGH THE FACTORY PLASTIC AND THROUGH THE DRILLED HOLE AND USE A PHILLIPS SCREWDRIVER TO TIGHTEN THE PUSH LOCK FASTENER.

## 7: INSTALLATION WRAP-UP AND TROUBLESHOOTING

ENSURE THAT ALL OF THE OTHER CONNECTIONS ARE COMPLETE FROM THE COBB SF INTAKE INSTRUCTIONS (VALVECOVER BREATHER, ETC) AND TAKE THE VEHICLE FOR A TEST DRIVE. IF YOU EXPERIENCE ANY IDLING ISSUES OR GET AN IMMEDIATE CHECK ENGINE LIGHT, CHECK THE CONNECTIONS BETWEEN THE MAF SENSOR AND MAF HOUSING AS WELL AS THE MAF SENSOR PLUG TO ENSURE THAT IT IS PROPERLY LATCHED IN PLACE.  ALSO CHECK THE HOSE CLAMP CONNECTIONS (TURBO INLET PIPE TO MAF HOUSING, MAF HOUSING TO FILTER).