



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

# INSTALLATION INSTRUCTIONS

## PART NUMBER

### 21-765C (Gun Metal Gray Finish)

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2014-15

MAZDA

3

2.0L

**\*Manual Transmission Only**

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2-1544C	INTAKE TUBE; 2.75"OD X 25", 21-765, GUNMETAL GRAY	1
2	9444	HOSE CLAMP, 2.31-3.25"	3
3	5-575	HOSE; HUMP 2.75/ 2.75 X 3.00"	1
4	08552	HOSE CLAMP; SPRING BAND 17MM X 12MM	1
5	5-1002	HOSE; 3/8"ID X 2"L	1
6	08160	WASHER; 1"D X 1/4 HOLE FENDER	1
7	07733	BOLT; M4 - 0.07 8MM, A/H CAP, SS	2
8	21-202DOSK	ELEMENT PARTS KIT 2.75 X 5 DRY ELE	1



Read and understand these instructions **BEFORE** attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine.

## 1. Preparing Vehicle

- a. Make sure vehicle is parked on level surface.
- b. Set the parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.
- f. Open the air intake kit package and make sure all parts are included.

### Tools Needed:

Screw drivers  
10MM socket  
8MM socket  
Socket Driver  
Side Cutters  
4MM Hex Key

## 2. Removal of stock system



a. Disconnect MAF harness from sensor. Use a flathead screwdriver to detach tree mount clip from air box lid.



b. Remove engine cover by pulling up towards hood as shown.



c. Disconnect crank case breather hose from stock intake tube.



d. Use a 10mm socket to loosen the hose clamp securing the stock intake tube to the throttle.



e. Remove the two M6 bolts securing the intake inlet air duct.



f. Detach the intake tube from the throttle and carefully remove the stock intake assembly from the engine bay.



g. Loosen the two screws using a phillips screwdriver and set MAF sensor aside.



h. Use a flathead screwdriver to release the clutch cable from the plastic clip. Remove the M6 bolt securing the metal bracket. Detach the tree mount zip tie from the bracket and set the bracket aside.



i. Release the clutch cable from the lower plastic clip. Remove the clip and reinstall it on the backside of the original location as shown. Re-fasten the clutch cable to the clip in the new location .

### 3. Installation of AEM® intake system.

- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



a. Install the MAF sensor from step 2g into the AEM tube and secure it using the M4 bolts(07733) provided.



b. Install the hump hose(AEM-5-575) onto the throttle along with two hose clamps(AEM-9444). Only tighten the hose clamp on the throttle at this time.



c. Position the AEM tube as shown to allow the lower end to slide into the wheel well location.



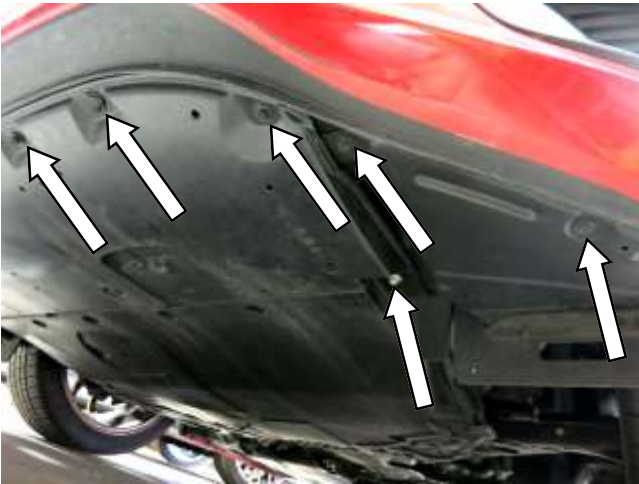
d. Rotate the tube towards the radiator and carefully slide the tube into the hump hose.



e. Loosely fasten the mounting bracket using the provided washer(08160) and bolt from step 2h.



f. Route the MAF harness down along the fender wheel liner as shown.



g. Use a floor jack and stand to raise the vehicle. Remove the 5 bolts and 1 plastic clip shown above securing the lower plastic covers.



h. Pull down on the large plastic cover to access the bolt indicated. Remove the bolt using an 8mm socket.



i. Lower the flap of the fender liner to install the AEM filter(AEM-21-202DOS) and hose clamp(AEM-9444) onto the intake tube. Connect the harness to the MAF sensor.



j. Adjust tube position to achieve clearance and tighten M6 bolt. Rotate the filter to clear the fender liner and tighten the hose clamp .



k. Trim 3/4 inch off the provided hose(AEM-5-1002) and install it onto the intake tube along with the spring clamp (08552). Connect the plastic hard line to the hose.



l. Reinstall the lower plastic covers and secure with previously removed hardware. Check final clearance and tighten the hose clamp on the hump hose.



m. Factory air induction system.



n. Finished installation of AEM Intake System.

#### 4. Reassemble Vehicle

- a. Position the inlet pipes for the best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- d. Reconnect negative battery terminal and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

## 5. Service and Maintenance

- a. AEM Induction Systems requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean, purchase our Synthetic air filter cleaner, part number 1-1000 and follow the easy instructions.
- b. Use window cleaner to clean your powder coated AEM<sup>®</sup> intake tube.

**NOTE: DO NOT USE aluminum polish on powder coated AEM<sup>®</sup> intake tubes.**

For technical inquiries  
e-mail us at  
[sales@aemintakes.com](mailto:sales@aemintakes.com)  
or  
call us at  
800.992.3000

### AEM Air Intake System Warranty Policy

AEM<sup>®</sup> warrants that its intake systems will last for the life of your vehicle. AEM<sup>®</sup> will not honor this warranty due to mechanical damage (i.e. improper installation or fitment), damage from misuse, accidents or flying debris. AEM<sup>®</sup> will not warrant its powder coating if the finish has been cleaned with a hydrocarbon-based solvent. The powder coating should only be cleaned with a mild soap and water solution. Proof of purchase of both the vehicle and AEM<sup>®</sup> intake system is required for redemption of a warranty claim.

This warranty is limited to the repair or replacement of the AEM<sup>®</sup> part. In no event shall this warranty exceed the original purchase price of the AEM<sup>®</sup> part nor shall AEM<sup>®</sup> be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM<sup>®</sup> must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is nontransferable. Improper use or installation, use for racing, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM<sup>®</sup> disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM<sup>®</sup>. Warranty returns will only be accepted by AEM<sup>®</sup> when accompanied by a valid Return Merchandise Authorization (RMA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM<sup>®</sup> within 30 days of the date RMA is issued.

If you have a warranty issue, please call (800) 992-3000 and our customer service department will assist you. A proof of purchase is required for all AEM<sup>®</sup> warranty claims.

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