



Equipped with AEM® *Dryflow™* Filter  
No Oil Required!

# INSTALLATION INSTRUCTIONS

## PART NUMBER: 22-440

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1991-1994 NISSAN

240SX L4-2.4L

C.A.R.B. E.O. D-670

## PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 3.00 X 5" Dry Ele.	1	21-203DK
Short Pipe	1	2-4401
Adaptor, MAF	1	2-632
Hose, Adapter 2.50/2.75 X 3" Blk.	1	5-257
Hose, Hump 2.75/2.75x3.00"	1	5-575
Hose; 5/8"ID X 11"L	1	5-7011
Hose; 5/8"ID X 10"L	1	5-7010
Mount, Rubber 1" X 6mm	1	1228599
Bracket, Support MAF	1	32-3001
Bolt, Socket M6-1 X 16mm	4	1-2042
Washer, M6 X 12mm OD Zinc	1	1-3018
Washer, 6mm Soft Mount	2	08460
Nut, M6 Hex Serrated	2	444.460.04
1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
1/2" Bnd. Hose Clamp, 2.31-3.25"	3	9444
Hose Clamp, 1"	4	99024.032
1/2" Bnd. Hose Clamp,2.90"-3.75"	1	9452

**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 parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Jack up the front of the vehicle and support using properly rated jack stands.
- f. Do not discard stock components after removal of the factory system.

## **2. Removal of stock system**

- a. Make note of the factory air box configuration. There are three breather hoses and a mass air flow sensor (MAF). Refer to the following diagrams for the identification of these components. (Fig. 1)
- b. Unplug the MAF sensor connector.
- c. Disconnect the large upper breather hose from the valve cover.
- d. Disconnect the resonator tube from the underside of the intake tube. This tube is used for noise suppression in the stock intake system and will not be used with the AEM<sup>®</sup> intake system. (Fig. 2)
- e. Disconnect the two breather hoses from the intake tube. Do not lose the hose clamps. (Fig. 2)
- f. Release the four clips holding down the air box cover. (Fig. 3)
- g. Loosen the hose clamp on the throttle body. Remove the bolt from the radiator fan shroud and the bolt from the radiator support. (Fig. 4)
- h. Loosen the hose clamp on the EGR hose. (Fig. 5)
- i. Remove the air intake tube, MAF, and air box cover from the vehicle.
- j. Loosen the two bolts that secure the lower air box and duct. (Fig. 6)
- k. Without lifting, slide the lower air box towards the engine to release the rubber isolators. Remove the stock lower air box and duct from the vehicle.

**NOTE: It is not necessary to remove the stock resonator from inside the fender well.**

- l. Loosen the four mounting bolts and remove the MAF from the stock air box cover. Loosen the clamp and remove the stock air inlet tube from the MAF.

## **3. Installation of AEM<sup>®</sup> intake system.**

- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.
- b. Check to see that the inside of the AEM<sup>®</sup> inlet pipe and air filter are clean and free from any obstructions.
- c. Install the supplied rubber mount onto the lower air box mounting bracket. Use the hole toward the front of the car. Tighten the nylock nut from the bottom of the bracket. **(Fig. 7)**
- d. Install the 2.75" hump hose onto the throttle body using a 2.75" hose clamp.
- e. Install one 2.75" hose clamp onto the other end of the hump hose.
- f. Slide the throttle body end of the AEM<sup>®</sup> inlet pipe into the coupler on the throttle body. The throttle body end is the end nearest the breather hose nipples on the AEM<sup>®</sup> inlet pipe.
- g. Install the original bolt, removed in step 2g, through the bracket on the AEM<sup>®</sup> inlet pipe into the radiator support. Do not tighten.
- h. Mount the AEM<sup>®</sup> MAF adaptor to the MAF using the four supplied M6 socket head bolts. Position the adaptor so that the EGR nipple on the MAF adaptor faces the rear of the vehicle with the MAF electrical plug oriented toward the engine.
- i. Attach the mounting bracket to the bottom, rear hole on the MAF. Use the supplied M6 washer under the

head of the bolt. The bend in the bracket should angle away from the MAF sensor and towards the driver's side of the car. Do not tighten this screw. **(Fig. 8 and 9)**

- j. Install the reducer coupler onto the end of the AEM<sup>®</sup> inlet pipe with a 2.75" hose clamp.
- k. Install the AEM<sup>®</sup> air filter onto the MAF adaptor using a 2.75" hose clamp.
- l. Install the MAF into the reducer coupler using a 2.50" hose clamp.
- m. The bracket on the MAF should line up with the rubber mount installed in step 3c.
- n. Thread the remaining washer and nylock nut onto the rubber mount. Do not tighten. **(Fig. 9)**
- o. Connect the two lower breather hoses to the nipples on the AEM<sup>®</sup> inlet pipe. **(Fig. 10)**
- p. Replace the upper breather hose with the longer of the two supplied 5/8" hoses and two 1" hose clamps. **(Fig. 11)**
- q. Replace the EGR hose with the shorter of the two supplied 5/8" hoses and two 1" hose clamps. **(Fig. 12)**

#### 4. Reassemble Vehicle

- a. **MAF sensor:** Re-connect the wiring harness to the MAF.
- b. 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. Tighten the rubber mount, all bolts, and hose clamps.
- c. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- d. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- e. Reconnect negative battery terminals and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

#### 5. CARB Sticker Placement

- a. The C.A.R.B. exemption sticker, (attached), must be visible under the hood so that an emissions inspector can see it when the vehicle is required to be tested for emissions. California requires testing every two years, other states may vary.

#### 6. Service and Maintenance

- a. It is recommended that you service your AEM<sup>®</sup> Dryflow™ filter every 20,000 miles for optimum performance. Use AEM Dryflow cleaning kit part # 21-110.
- b. Use aluminum polish to clean your polished AEM<sup>®</sup> intake tube.
- c. 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)**

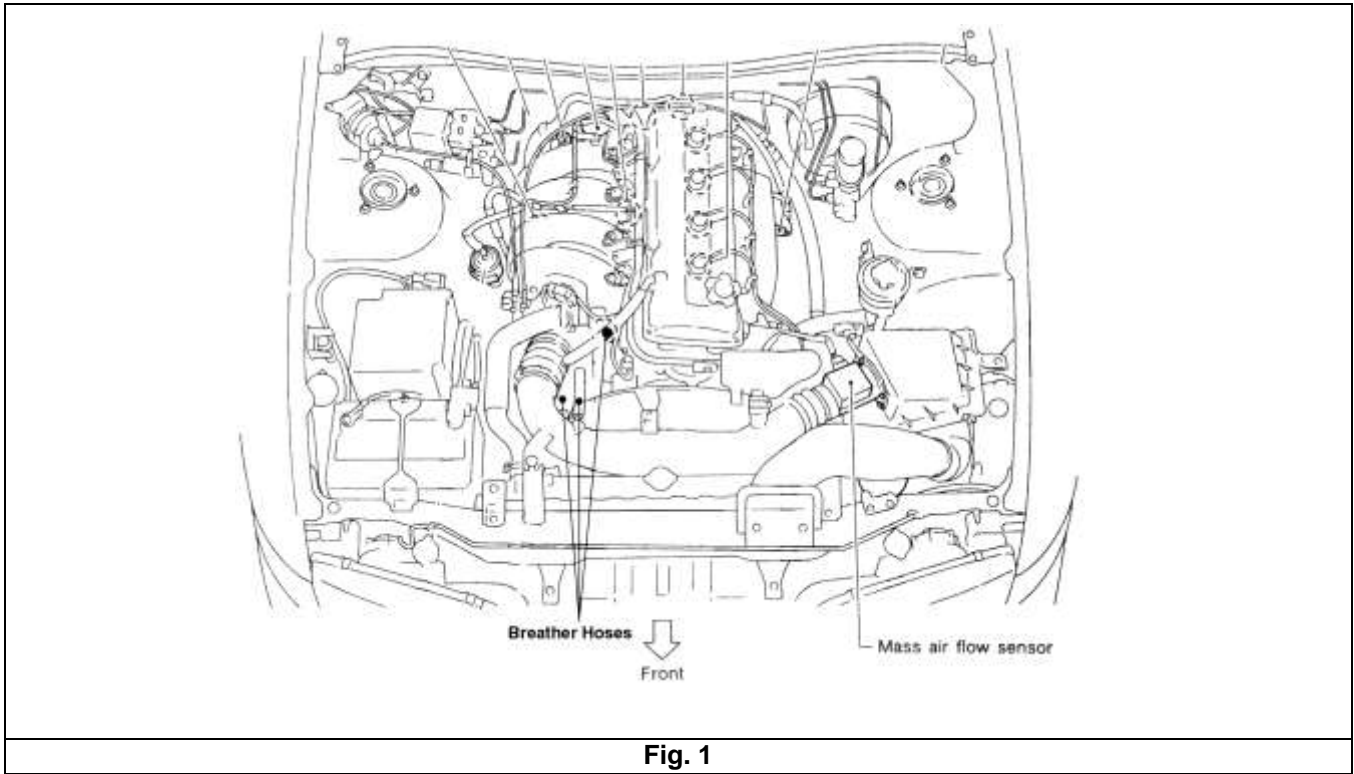


Fig. 1

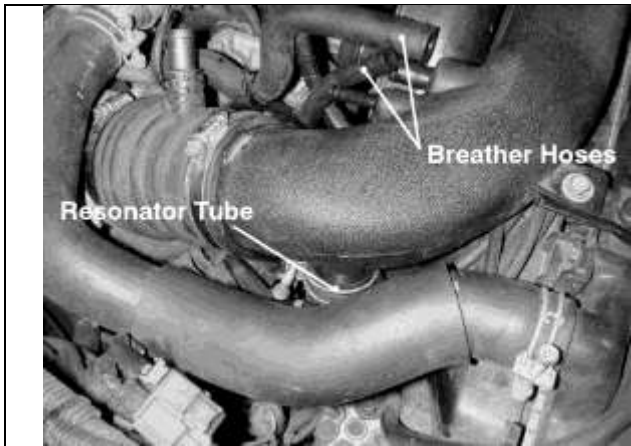


Fig. 2

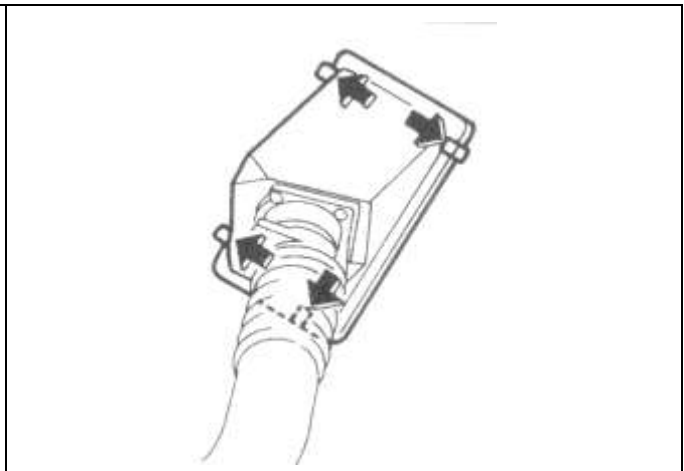
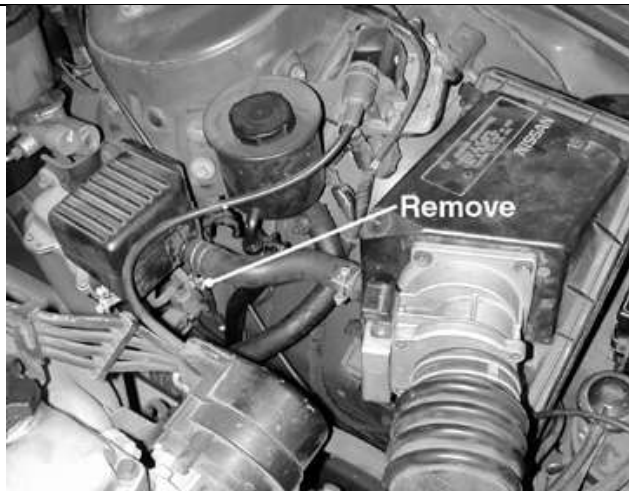


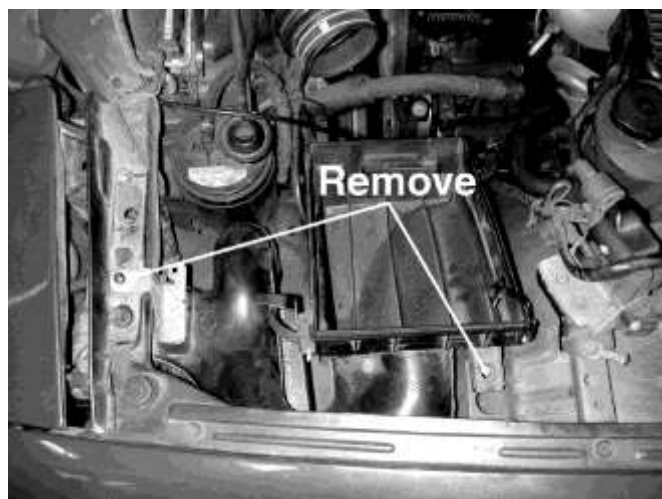
Fig. 3



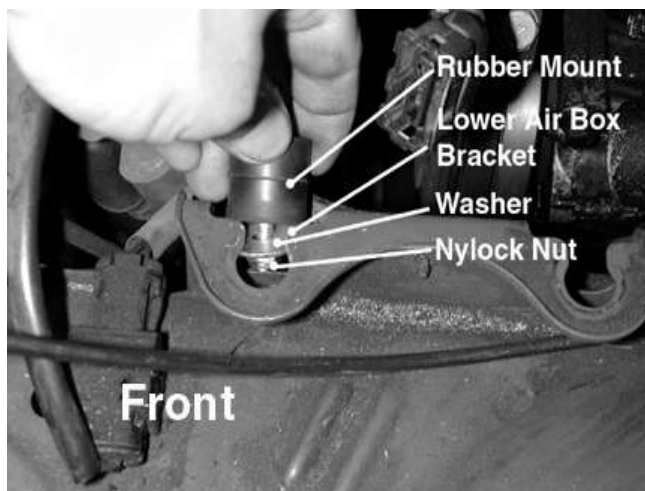
**Fig. 4**



**Fig. 5**



**Fig. 6**



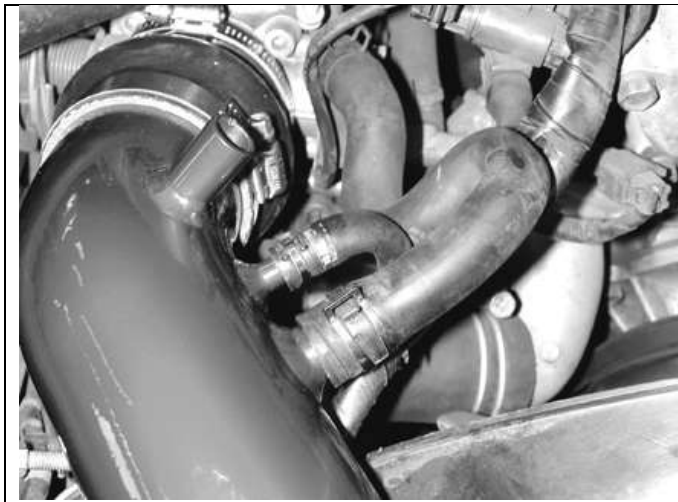
**Fig. 7**



**Fig. 8**



**Fig. 9**



**Fig. 10**



**Fig. 11**



**Fig.12**



**Fig. 13**



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