This WizAired Cold Air Intake (CAI) System is designed to replace the stock air intake box with a best-in-class intake system. The system also has provisions for mounting the Powertrain Control Module (PCM) within the air box. This CAI system is designed to provide easy installation with minimal time, tools and headaches.

1. Tools Needed:
   1.1. Flat Blade Screwdriver
   1.2. 8 & 13 mm wrenches
   1.3. 5/16” Socket and ratchet or Nut Driver
   1.4. Pliers
   1.5. General purpose grease

2. Stock Air Box Removal (1999-2003 stock air box illustrated.)
   2.1. Pull the Intake Air Temperature (IAT) sensor from the intake duct. No need to remove the wire harness from the sensor. Tuck the sensor and harness aside until later.
   2.2. Remove connector post from the front brace using pliers to pinch the retainer tabs.
   2.3. Remove the front brace with a 13mm wrench. Tip: Take note of how tight the three bolts are holding the front brace. You will need to retighten them with the same tension when it is reinstalled later.
   2.4. Remove the intake duct from the throttle body. This can be done by pealing the top lip away from the throttle body and continuing to work your way around pulling the duct off as you go.
   2.5. Unclip the filter cover from the filter housing and remove the cover and duct together.
   2.6. Remove the two bolts holding the rear filter housing section to the front section with an 8 mm wrench.
   2.7. Take out the rear filter housing and put it with the filter cover.
   2.8. At this point, you can now pull out the Powertrain Control Module (PCM) from the front filter housing section. Place the PCM aside by the radiator cooling fan until later.
   2.9. Remove the front filter housing by wiggling the housing while pulling upward. This action will pull the two posts on the housing’s bottom from the two rubber grommets securing it in place. Once the posts clear the grommets, take out the housing and place it aside.
   2.10. On older vehicles, there may be a baffle panel covering the opening to the fender well. This panel should be removed to provide the most benefit from the WizAired CAI System.
2.11. This completes the stock air box removal.

2.12. Some earlier model W-Body vehicles have their coolant recovery bottle mounted in the left fender. Installing the WizAired CAI System requires this coolant bottle be removed and eliminated from this location. In these cases, a later model coolant recovery bottle must be purchased and mounted on the passenger strut tower. Refer to the Tech Info > Coolant Bottle on our website (www.easyperformance.com) for further information.

3. CAI Installation

3.1. Begin the installation by clipping the two U-Clip nuts through the two square access holes and towards the round mounting holes in the fender frame. See Figure 3.1 to properly identify which locations the U-Clip nuts are to be installed. If unused U-Clips are already in these locations, replace them with those clips included. If the outer forward clip position is in use, use the alternate location shown in Figure 3.1.

3.2. Check that the upper radiator hose clamp is in a position that doesn’t interfere with the air box installation. If it is protruding towards the fender, then you will need to rotate it pointing downward and out of the way. The CAI Box will come nearly flush with the upper radiator hose’s side.

3.3. Position the PCM Tray on the fender frame as shown in Figure 3.3. Using two ¼-20 x 1” pan head screws with washers, secure the PCM Tray to the fender frame. Do not over tighten the screws and over compress the grommets. The screws only need to be snug. Tip: You may need to push and hold the tray towards the fender’s corner and compress the weatherstripping in order for the PCM Tray grommet holes to line up with the U-Clips.

3.4. Check Hood Release Cable location. Some earlier Grand Prixs have their hood release cable routed in the headlamp opening. If this is the case, the cable will need to be rerouted through the small hole located next to the radiator. Doing this will permit easier air box installation.

3.5. The next task is installing the aluminum air box. While this may seem tricky, if you follow the installation procedure, it will slip in with little difficulty. Proceed as follows.

3.5.1. While holding the PCM up and towards the fender, position the air box with the forward corner tucked under the radiator wall by the upper radiator hose and the remaining box held up and towards the engine as shown in Figure 3.5.1.

3.5.2. Pull the PCM wire harness upwards through the weatherstrip slot in the air box. Hint: Applying a thin film of grease on the sealing surfaces of the weatherstripping will allow the PCM wire harness to slip into the sealing slot much easier than if the rubber seals are dry.

3.5.3. With the PCM harness in the sealing slot, rotate the air box into final position by pushing down & towards the fender on the back end of the air box while rotating about where the front is mating with the radiator wall.
3.5.4. Jog air box around so the 5 holes in the air box’s bottom lip align with the screw studs in the PCM tray and drops into place.

3.6. Fasten the aluminum air box to the PCM tray.
   3.6.1. Using a 5/16” socket and ratchet (or preferably a 5/16” nut driver) begin to screw the air box to the PCM tray the 5 of the #6 nuts. Tip: Only start each nut in succession. Do not finish tighten any of the nuts until they are all started. You may find it easier to access and secure the front end of the box with the left headlight assembly removed.
   3.6.2. Start in the center corner and work your way out to each end with starting all of the retaining nuts.
   3.6.3. Once all the screws are started, tighten each of them down snuggly. DO NOT over tighten them.

3.7. Lay the PCM tray insulation in place by slipping it over the PCM strap hooks. The PCM will be cushioned with this layer of material.

3.8. Attach the PCM strap onto the rear hook by slipping the loop end of the strap over the hook. Then, secure the loop end by sliding the retaining collar up to the hook.

3.9. Position the PCM in between the PCM mounting hooks. Stretch the PCM strap over the PCM and hook onto the front tray hook as shown in Figure 3.9. NOTE: Some vehicle years (~1998) have the PCM wired with the wire harness coming off the right side of the PCM instead of the left. If you have this situation, you will need to lay the PCM upside down. This will not cause any problems. Just lay down the tray insulation sheet and strap the PCM in position as described.

3.10. Install intake duct.
   3.10.1. Install the rubber adapter ring over the throttle body inlet flange. Pre-tighten the hose clamp so it slides loosely over the intake duct. Place the hose clamp on the throttle body in preparation to clamping on the intake duct.
   3.10.2. Slide the metallic silicone intake duct through the air box opening.
   3.10.3. Rotate and push the intake duct fully over the throttle body inlet flange. The duct will bend naturally to mate with the throttle body inlet flange.
3.10.4. While holding the duct in position, slide the hose clamp over the joint and tighten down to secure the intake duct in position. IMPORTANT: Be sure the end of the intake duct’s stiffening wire within the duct material lamination is UNDER the hose clamp. The hose clamp must ensure the wire does not work its way through the duct material or come loose.

3.10.5. With the duct mounted, be sure to push out any corrugations on the inside of the bend so they are protruding outward and not inside of the duct to disrupt air flow. You can easily reach your hand inside the duct and push the creases out with your finger.

Figure 3.11    Figure 3.12

3.11. Install the air filter purchased over the protruding end of the aluminum intake duct coupler. Using a rotating motion will help with installing the filter. Tighten the air filter’s hose clamp.

3.12. If an IAT Sensor needs to be installed, cut an access hole through the air box insulation surrounding the IAT Grommet located in the air box just forward of the intake duct. Once a hole is cut in the air box insulation, insert the IAT sensor into the IAT Grommet. CAUTION: Do NOT force the IAT Sensor into the grommet and dislodge the grommet. Lightly lubricate the inside surface of the grommet with some grease to ease inserting IAT Sensor. Wiggling the sensor back and forth while pushing it in will allow it to walk into the grommet without dislocating the grommet.

3.13. Place the cover on the air box and fasten down with the two straps stretched over the ears on the cover.

3.14. Replace the front brace and tighten down as it was before.

3.15. Insert the connector anchor in the front brace.

3.16. Installation is complete.

Final Check: If your CAI box is not fitting as expected, there are a couple of things you can do. If the CAI box is not tall enough to have the lid or other CAI box seals contacting the fender/radiator wall framing, then you can then loosen the PCM tray bolts and shim the tray up with a suitable material (foam urethane, Styrofoam, wood, rubber, etc.) in those areas needed to be raised. To alter the box location slightly by loosening up the PCM tray bolts and move the CAI box in the desired direction. If you are unable to relocate the CAI box enough to eliminate any gaps in the lid or CAI sides, you can remove the lid and bend the entire CAI box into the direction needed. Be careful not to alter the box angles that must match the lid. Since the CAI box is made of aluminum alloy, it can be shifted around to tailor the fit to the shape/location of your engine compartment.

Another option available to you is to pull the weatherstripping seals from their panels as much as 1/4”. This will extend their reach and will not cause any problems. The seals grip onto the panels by 1/2” and do not need that much engagement to function properly.

4. WizAired CAI Logo Instructions

Easy Performance is branding the WizAired Logo on the air box lid. This logo is laser engraved using state of the art laser equipment. The cover tape found on the lid is intentionally left in place to provide the customer with additional customizing options. We suggest one of the following customizing options to provide for a unique look for the WizAired CAI system.

4.1. Customizing Options:

4.1.1. Clear Etched Look – Remove the cover tape to reveal a clear etched logo.

4.1.2. Custom Single Color – Mask off the remaining portion of the lid, select a customizing color spray paint, lightly color coat the logo and then remove the cover tape to reveal the single colorized logo.

4.1.3. Custom Multi Color – Mask off the remaining portion of the lid. Select desired custom color combination spray paints. Mask off each portion of the logo separately for each color to be used. Lightly color coat each logo section independently while the remaining sections remain covered. Once all colors have been applied, remove the cover tape to reveal the multicolored logo.

4.1.4. Create your own method and customizing scheme for the logo.

If you have any question, concerns or comments on the Cold Air Induction System Kit and/or the installation instructions, please visit Easy Performance Products website at www.easypformance.com and browse to the Cold Air Induction System product web page. Please browse the FAQs (Frequently Asked Questions) section in the Cold Air Induction System. There may be questions you have that are already answered. Otherwise, you can always contact us at: support@easypformance.com.