



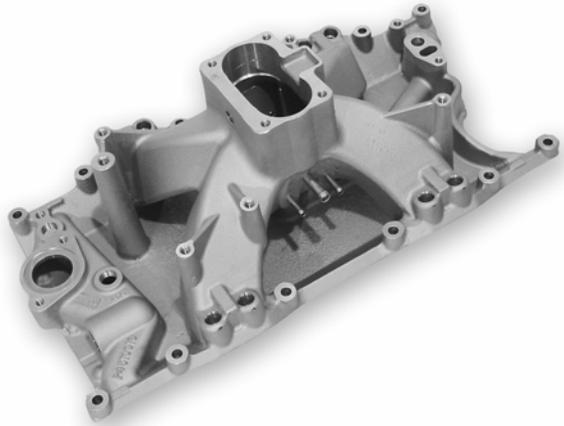
INSTALLATION INSTRUCTIONS

Magnum 5.2/5.9L MPI Single Plane Intake Manifold

APPLICATIONS: 1992-1998 5.2L and 1993-2003 5.9L Magnum Engines

PART NUMBER P5007852 (w/o EGR)

P5007398AB (w/ or w/o EGR)



Package Contents

This package includes one fully machined MPI intake manifold and this instruction sheet. P5007398AB has provisions to work with the stock EGR system, and P5007852 does not have EGR passages in the manifold. Most 1992-'96 vehicles had the EGR system and most 1997 and later vehicles did not have the EGR system. This could vary on vehicles sold in some states and vehicles made for export.

Read all instructions before beginning installation.

Warnings and Cautions

Mopar Performance Parts recommends professional installation by an ASE Certified technician. An in. lbs torque wrench, and other specialized removal and installation tools are required.

Vehicle Application

This manifold fits all production Chrysler small block 5.2L/5.9L Magnum engines with Magnum cylinder heads. The Magnum engine is a 1992-'98 5.2L Magnum or 1993-'03 5.9L Magnum engine. This intake does not fit the 1955-'67 polysphere 318 heads or the 1964-'92 standard "LA" engine, unless the heads

have been changed to Magnums. This manifold is designed to work with all stock Magnum components and accessories (i.e. A/C, fuel rails, injectors, throttle body, wiring, etc). The spacers in the installation kit are required to re-use the fuel rails, A/C and Alternator brackets.

Additional Parts

It is suggested that you purchase the following additional parts and accessories for this installation:

Mopar Part Number - Description:

P5007638 - Manifold Installation Kit (See below for contents of the installation kit)

P4876049 - Intake Manifold Gasket Set

53021051AB - Gasket – Thermostat

53030541 - Gasket – Throttle Body

RTV sealant

Teflon Sealant or tape

Installation Instructions

The basic procedure is to remove the old intake manifold from your vehicle and replace it with this new high performance manifold. Please read the whole instruction sheet before starting the process.

Removing the old Manifold:

- 1) Disconnect the negative battery cable.
- 2) Drain the coolant from the radiator.
- 3) Remove the air cleaner and ducting assembly.
- 4) Loosen the fan belt. This requires the use of a specialized tool to remove the tension on the belt
- 5) Disconnect all vacuum lines and wiring to the injectors, sensors, and throttle body.
- 6) Remove the throttle linkage and throttle body assembly. Discard the used gasket.
- 7) Remove the whole fuel rail w/ the injectors still attached. Do not remove the injectors from the fuel rail or disconnect the fuel lines since they are under high



INSTALLATION INSTRUCTIONS

Magnum 5.2/5.9L MPI Single Plane Intake Manifold

APPLICATIONS: 1992-1998 5.2L and 1993-2003 5.9L Magnum Engines

PART NUMBER P5007852 (w/o EGR)

P5007398AB (w/ or w/o EGR)

pressure. Be sure that you do not lose the o-rings from the injectors (they may get stuck in the old intake manifold). Replace any damaged or worn o-rings. Rotate the fuel rail assembly out of the way so that you can remove the intake manifold (while leaving the fuel lines still attached). **Important:** If you must remove the fuel lines be sure to release the fuel pressure in the system (please see the service manual for the procedure for your vehicle).

- 8) Remove the alternator and A/C compressor and the brackets that attach them to the intake manifold / Cylinder Heads / Block. Do not remove the A/C lines since this will allow the A/C charge to escape into the atmosphere. Move the A/C compressor off to the side so that you can work on the manifold (with the A/C lines still attached).
- 9) Remove the heater hose, by-pass hose, wiring, and EGR tube (if your vehicle has EGR), and thermostat housing / thermostat. Discard the used thermostat housing gasket.
- 10) Remove the old intake manifold. It may be necessary to remove one valve cover if you have the aluminum die cast Mopar Performance valve covers. Discard the used intake manifold gaskets.

Installation:

- 1) Transfer the following components over from the old intake manifold to the new one before it is installed on the engine (by-pass nipple, heater hose nipple, air charge temp. sensor, EGR valve, coolant temp. sensor(s), thermostat & housing, and EGR valve). You may need to use some of the adapters included in the installation kit (P5007638) in some applications. Use a new gasket and RTV on the thermostat housing. Seal the pipe threads on the sensors and fittings with Teflon seal tape or teflon sealant.
- 2) The air charge temp sensor has been relocated to a new position on the new manifold. The sensor must be screwed into the tapped hole in the front of the manifold plenum (the old location in the stock production manifold was in the runner for the #2 cylinder). This sensor was relocated to reduce the restriction of airflow in the runner.
- 3) Plug any extra coolant holes in the intake manifold with the plugs included in the installation kit (P5007638). Some applications will use all of the threaded holes in the manifold and others will have an extra hole or two which must be plugged.
- 4) If your vehicle has an EGR system (most 1992 to 1996 vehicles), install a ½" NPT pipe plug in the tapped hole in the cast passage about midway between the EGR valve and the plenum of the manifold. Use teflon seal tape or sealant on the threads of this plug. This is only necessary with Manifold P5007398AB.
- 5) If your vehicle does not have an EGR system (most 1997 & up vehicles) install a ½" NPT plug in the tapped hole in the bottom of the plenum (this is only necessary with intake manifold P5007398AB). Use teflon seal tape or sealant on the threads of this plug. Note: you must install this plug in one of the two locations described above. Failure to install this plug will create a very large vacuum leak or EGR leak. Be sure to install this plug before you install the manifold on the engine since you don't want to accidentally drop the plug into one of the intake passages.
- 6) Prior to installing the new intake manifold, clean all of the mating surfaces to remove any old gasket material and all grease and oil. Place approximately a ¼" bead of silicone gasket sealer in the 4 "corners" where the end seals meet the cylinder head.
- 7) Set the 4 intake gaskets in place on the clean block. On the two side gaskets, the words "MANIFOLD SIDE" should be visible on both and the tabs on the manifold gasket should fit in with the tabs on the head gasket. The front seal is basically straight and the rear seal has a big hook in it. They fit on the front and rear block crossovers.
- 8) **Special Notice: The two center dowel holes on the bottom of the manifold at each end must be filled with RTV.** If these dowel holes are not filled with RTV, The engine may leak oil in these two areas. The manifold has the extra dowel holes so that it can also 1967 – 1992 "A" engines (when the heads have been changed to Magnum heads - contact the Mopar Tech Line for details on using Magnum heads on an "A" engine).
- 9) Carefully place the intake manifold into position on the



INSTALLATION INSTRUCTIONS

Magnum 5.2/5.9L MPI Single Plane Intake Manifold

APPLICATIONS: 1992-1998 5.2L and 1993-2003 5.9L Magnum Engines

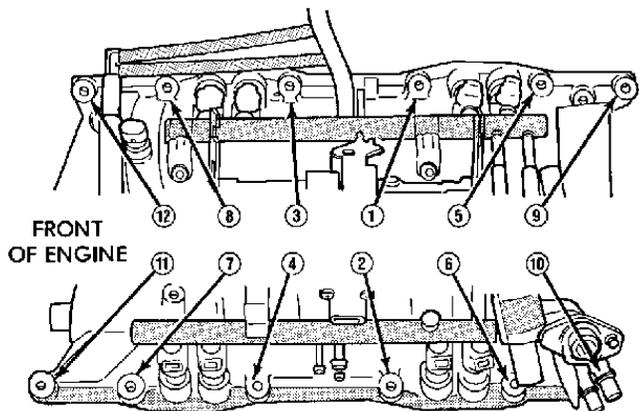
PART NUMBER P5007852 (w/o EGR)

P5007398AB (w/ or w/o EGR)

engine. Use the 4 step procedure to torque the intake bolts. **CAUTION: DO NOT OVER TORQUE** – over tightening the bolts can cause the heads to crack, sealing problems, or other failures.

- 10) Step #1 – Tighten bolts to 2.7 N-m (24 in. lbs) torque
- 11) Step #2 – Tighten bolts to 5.4 N-m (48 in. lbs) torque
- 12) Step #3 – Tighten bolts to 9.5 N-m (84 in. lbs) torque
- 13) Step #4 – Check that all bolts are torqued to 9.5 N-m (84 in. lbs).

Intake Manifold Bolt Tightening Sequence



J9209-60

- 14) Apply a small amount of clean engine oil to each fuel injector o-ring.
- 15) Position the fuel rail/fuel injector assembly to injector openings on intake manifold.
- 16) Guide each injector into intake manifold. Be careful not to damage the injector o-rings.
- 17) Push right fuel rail down until fuel injectors have bottomed on injector shoulder. Push left fuel rail down until fuel injectors have bottomed on injector shoulder.
- 18) Use the tubular spacers and 5/16" screws included in the installation kit (P5007638) to connect the fuel rail to the manifold. Three tubular spacers are used between the fuel rail brackets and the bosses on the intake manifold. One Common spacer (w/ two holes in it) is used in the front of the manifold on the passenger side to hold the fuel rail and the alternator support rod. You may have to pull the fuel rails up slightly to insert the spacers. Tighten all of the 5/16" long screws holding fuel rail to 20 ft-lbs.
- 19) Re-connect the wiring to the manifold air temperature sensor. The sensor has been re-located to the front of the plenum and will require that the wiring be extended about 12". Cut off the old connector and splice in an extension to reach the new location of the sensor (reuse the connector w/ the extension). The installation kit (P5007638) includes the needed wire, connectors, and shrink sleeve to modify the wiring harness.
- 20) Connect the wiring to all injectors. The injector wiring harness is numerically tagged to show the proper cylinder.
- 21) Re-connect the EGR, heater hose, and coolant by-pass hose, wiring to the coolant temperature sensor(s) and vacuum lines. Re-route any vacuum lines were needed.
- 22) Plug any of the extra vacuum nipples on the intake manifold w/ the plugs in the installation kit.
- 23) Re-install alternator and A/C Compressor and brackets. Use the long 3/8" screw included in the installation kit (P5007638) for the alternator support rod (this goes through the common spacer w/ 2 holes in it). Reinstall the A/C bracket and use the remaining short tubular spacer to attach this bracket to the intake manifold w/ the 5/16" screw. Reinstall the fan belt.
- 24) Install throttle body to intake manifold. Use a new gasket between the manifold and the throttle body. Torque the 4 mounting screws 17 ft-lbs. Reconnect the wiring to the throttle body.
- 25) Reconnect the throttle linkage. Check the linkage for smooth operation and make sure it does not bind or interfere with any wiring or vacuum lines.
- 26) Re-Fill the cooling system w/ anti-freeze.
- 27) Install air cleaner.
- 28) Check hood clearance (the new manifold is the same height as the old one, so this should not be a problem if you replaced the production barrel style manifold).
- 29) Re-connect battery cable to battery.



INSTALLATION INSTRUCTIONS

Magnum 5.2/5.9L MPI Single Plane Intake Manifold

APPLICATIONS: 1992-1998 5.2L and 1993-2003 5.9L Magnum Engines

PART NUMBER P5007852 (w/o EGR)

P5007398AB (w/ or w/o EGR)

For technical assistance, please contact the Direct Connection Tech Hotline - Monday-Friday, 7:00am - 3:00pm EST at 1(888) 528-HEMI or 1(888) 528-4364.

NO PARTS WARRANTY – “AS IS”

Mopar Performance parts beginning with a “P” prefix are sold “as is” unless otherwise noted. This means that parts sold by Mopar Performance carry no warranty whatsoever. **Implied warranties, such as warranties of merchantability, are excluded.** (An implied warranty of merchantability means that the part is reasonably fit for the general purpose for which it was sold). The entire risk as to quality and performance of such parts is with the buyer. Should such parts prove defective following their purchase, the buyer and not the manufacturer, distributor or retailer, assumes the entire cost of all necessary servicing or repair. Chrysler, Dodge and Jeep® vehicle and parts warranties are voided if the vehicle or parts are used for competition. The addition of performance parts does not by itself void a vehicle’s warranty. However, added performance parts (parts not originally supplied on the vehicle from the factory) are not covered by the vehicle’s warranty, and any failure that they may cause is also not covered by the vehicle’s warranty.

Contents of the Installation Kit - for reference only (Available separately under part number P5007638)

- 2-12" pieces of #18 wire (2 different colors)
- 4-crimp style connectors
- 4-pieces of shrink sleeve tubing
- 4-tubular spacers (for fuel rail and A/C compressor bracket common spacer for fuel rail and alternator support rod)
- 5-3.00" long 5/16"-18 hex head bolt – grade 5
- 1-4.00" long 3/8"-16 hex head bolt – grade 5
- 2-3/8" vacuum caps
- 4-1/4" vacuum caps
- 1-1/2" NPT short pipe plug w/ Allen head (EGR or EGR block off)
- 1-3/8" NPT plug (temperature sensor plug in some applications)
- 1-1/8" NPT plug (temperature sensor plug in some applications)
- 1-3/8" NPT to 1/8" NPT adapter (temperature sensor in some applications)
- 1-by pass hose nipple – Mopar part number 53020185