

Solstice GXP/Sky Redline Air Induction Kit (19157849)

Installation Manual Part Number 19157858

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This publication provides general information on components and procedures that may be useful when installing or servicing a Solstice GXP/Sky Redline Performance Air Induction Kit. Please read this entire publication before starting work. Also, please verify that all of the components listed in the Package Contents section below were in fact shipped with the kit.

The information below is divided into the following sections:

- Required Tools
- Solstice GXP/Sky Redline Air Induction Kit Installation Manual
- Package contents

It is not the intent of this manual to replace the comprehensive and detailed service practices explained in the GM service manuals. All the risk for its use is entirely assumed by the user. Specific component design, mechanical specifications to replace the comprehensive and detailed service practices are explained in the GM service manuals. GM service manuals are available from: Helm Incorporated, PO Box 07130 Detroit, MI 48207.

Observe all safety precautions and warnings in the service manuals when installing the Performance Air Induction Kit. Wear eye protection and appropriate protective clothing. Support the vehicle securely with jack stands when working under or around it. Use only the proper tools. Exercise extreme caution when working with flammable, corrosive, and hazardous liquids and materials. Some procedures require special equipment and skills. If you don't have the appropriate training, expertise, and tools to perform any part of this conversion safely, this work should be done by a professional.

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GENERAL MOTORS SERVICE PARTS OPERATIONS
6200 Grand Pointe Drive, Grand Blanc, MI 48439
(810) 606-2398

Solstice GXP/Sky Redline Air Induction Kit **REV 11NO08** **PART NO. 19157858** **SHEET 1 OF 30**

ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON 8.5x11 WHITE 16 POUND NON-BOND RECYCLABLE PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES. TO BE UNITIZED IN ACCORDANCE WITH GMSPO SPECIFICATIONS.

DATE	REVISION	AUTH	DR
20JL07	Initial Release - John Wellington		
11NO08	Revised - Tony Cubr		

INSTALLATION INSTRUCTIONS	
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Care & Maintenance

CAUTION: DO NOT USE ABRASIVE CLEANERS OR METAL POLISHES THAT CAN PERMANENTLY SCRATCH THE FINISH OF YOUR ALUMINUM TUBE. Clean only with a mild, non-abrasive detergent as both components are protected by a clear powder coat finish.

Solstice GXP/Sky Redline Air Induction System - C.A.R.B E.O # D-126-24 for the following models below:

- 2009 Pontiac Solstice Coupe 2.0L Turbo
- 2008-09 Pontiac Solstice GXP 2.0L Turbo
- 2008-09 Saturn Sky Redline 2.0L Turbo

Tools Required:

- Flat and Phillips Head Screw Driver
- Ratchet, Extension and 10mm Deep Socket
- 10mm Wrench
- Cutting Pliers

GM Performance Air Induction Kit Contents:

Quantity	Part #	Description
1	19157850	FILTER - DRY AIR ASSEMBLY 3.00" DIA X 5" SHORT WITH NUB
1	19155349	FILTER - AIR, PRE-FILTER OUTERWARE
1	19157851	TUBE - INDUCTION, POLISHED ALUMINUM - 3.00" DIA
1	19201102	SPLASH SHIELD
1	19201100	HARNESS - MAF EXTENSION WIRING
1	19157859	REDUCER COUPLER 3.00-2.50"
1	19165599	CLAMP - SIZE 52
1	19131540	CLAMP - SIZE 48
1	19172993	CLAMP - SIZE 40
4	19155705	NUT - SERRATED 6MM
3	19155706	BOLT, HEX/FLANGE M6x20
2	19155707	WASHER - FLAT M6x12
1	19172992	MOUNT - RUBBER 5/8" x 6MM
1	19201096	WASHER - 6MM SOFT MOUNT
1	19157860	LABEL - CARB EO
1	19159215	LABEL - GM PERFORMANCE PARTS - 6" Length
1	19157858	INSTRUCTION MANUAL
2	88968854	ZIP TIE - PUSH MOUNT
1	19201537	ZIP TIE
1	19201101	BRACKET - ALUMINUM MOUNT EXTENSION

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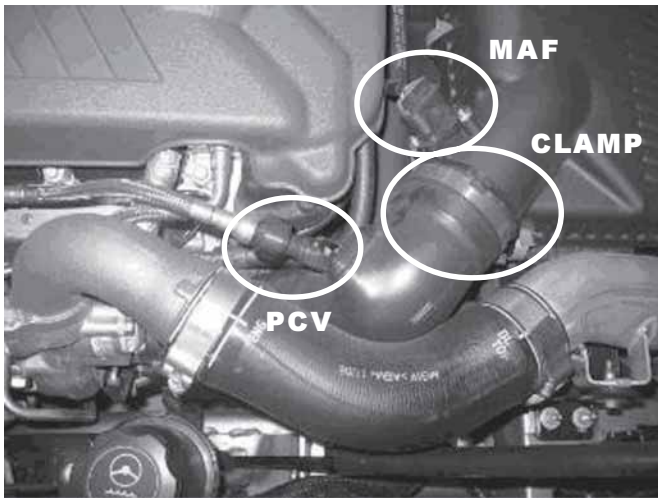
Caution: Wear safety glasses at all times.

WARNING: Some components may be heavy or awkward to remove. Assistance may be needed to prevent personal injury.

WARNING: Batteries normally produce explosive gases which can cause personal injury. Therefore, do not allow flames, sparks, or lighted substances to come near the battery. When charging or working near a battery, always shield your face and protect your eyes. Always provide ventilation.

1. Stock Air Induction Removal

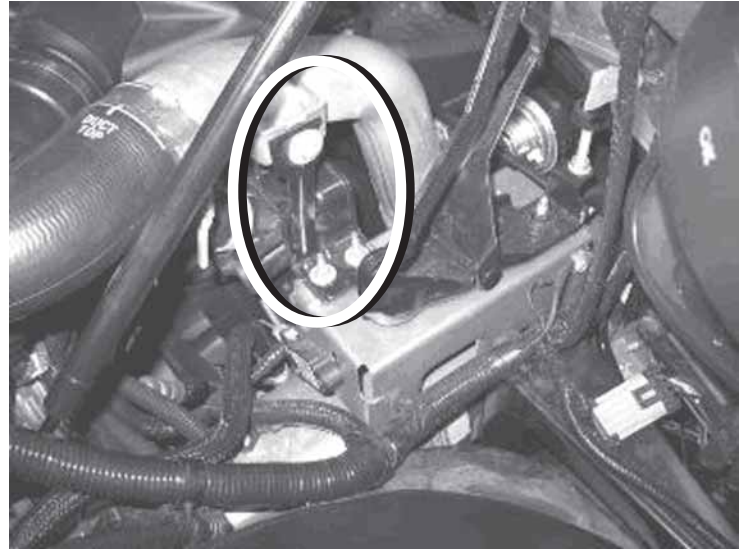
1a. Unplug connector from the Mass Air Flow sensor and unplug PCV hose (unlock small clip to release). Loosen clamp that hold the factory induction tube to the air box.



1b. Loosen both clamps holding the factory induction tube.



1c. On the passenger side of the vehicle. Remove the bolt and two nuts circled. Remove both brackets. (apply lubricant to the rubber grommet when removing). Repeat this step for the driver side.



1d. Remove both bolts circled in photo. This will allow the turbo intercooler tubes to tilt outward enabling the lower section of the factory air box to be removed.

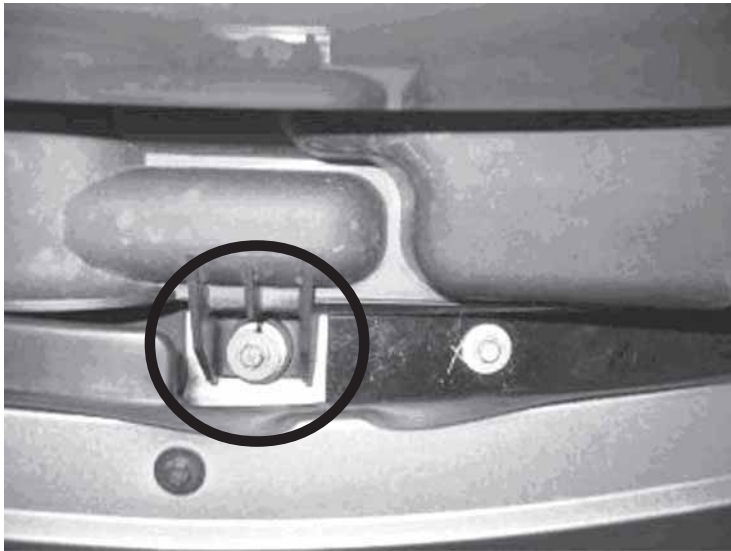


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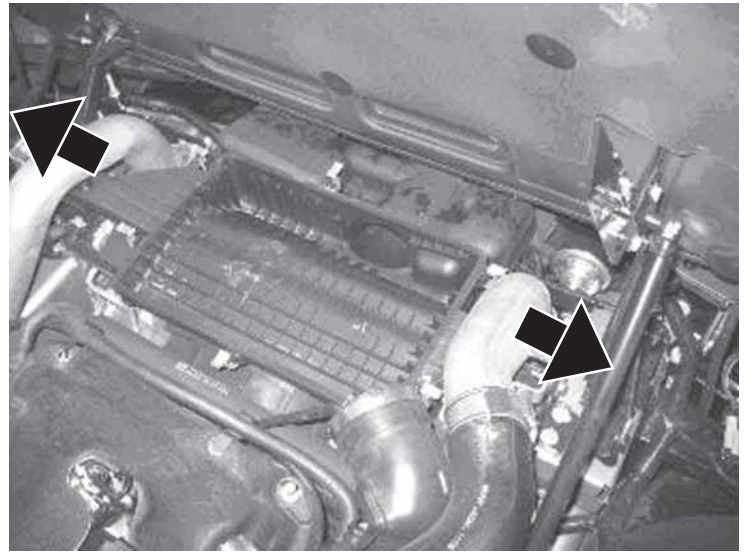
1e. Remove the bolt securing the air box to the front bumper reinforcement.



1f. Undo the 6 circled metal clips and remove the top portion of the air box and remove the panel air filter. Also, remove the factory induction tube leading to the turbocharger inlet and the engine cover by pulling upwards at the 4 corners of the cover.



1g. Remove lower portion of the air box. Both aluminum turbo intercooler tubes can tilt outwards (see arrows) allowing clearance needed for removal. When the air box is removed, re-install factory hardware removed in step 1c and 1d.



2. GM Performance Air Induction System Installation.

2a. Place a size 40 clamp on the smaller diameter side on the reducer coupler and place a size 48 clamp on the larger diameter side of the coupler. Install the reducer coupler onto the turbocharger inlet and tighten the size 40 clamp and leave the size 48 clamp loose.



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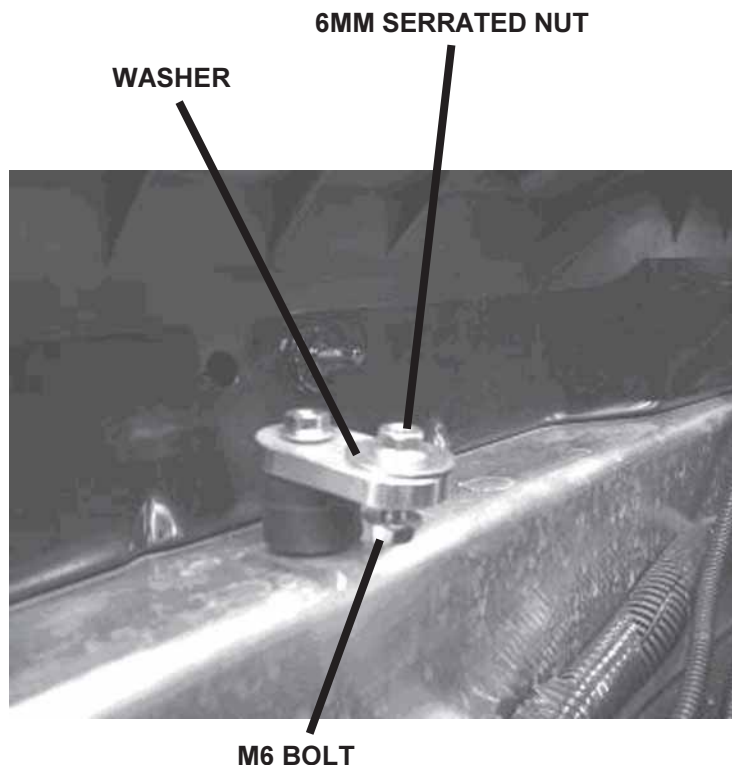
2b. Install the 5/8"x6mm rubber mount on the center of the front bumper reinforcement.



2c. Install front mount bracket and loosely install a 6mm serrated nut, do not fully tighten the nut yet.



2d. Insert M6 bolt from the bottom up, place a 6mm washer on top of the bracket and lightly secure using a 6mm serrated nut, do not tighten yet.



2e. On the right side of the engine, tilt PCV hose to an angle as shown. This will create a smooth path when connecting the PCV hose to the GM Performance Air Induction Tube.



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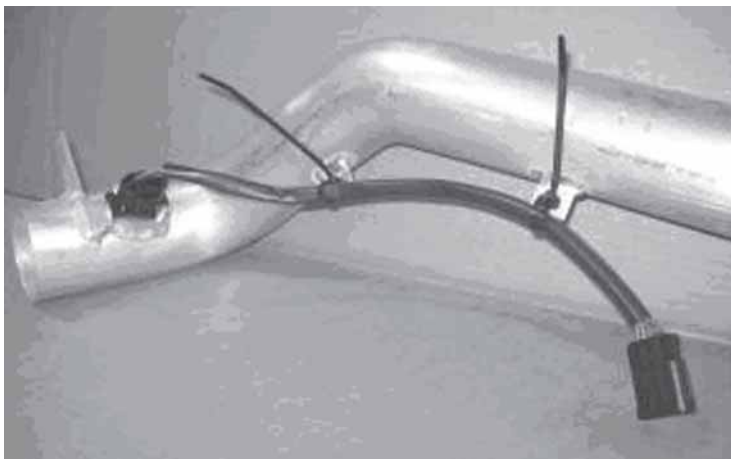
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2f. Install MAF sensor onto the GM Performance Induction Tube using both factory screws.



2g. Install the 2 push mount zip ties, one in each hole of the two small tabs on the induction tube as shown below and secure MAF harness extension, but do not fully tighten zip ties yet. Plug the extension into the MAF sensor.



2h. For additional clearance, reposition the rubber hose pictured so the bend on the hose is closer to the valve cover.

BEFORE



AFTER



2i. Install Induction Tube, place the MAF sensor side of the tube into the front portion of the engine bay as shown.



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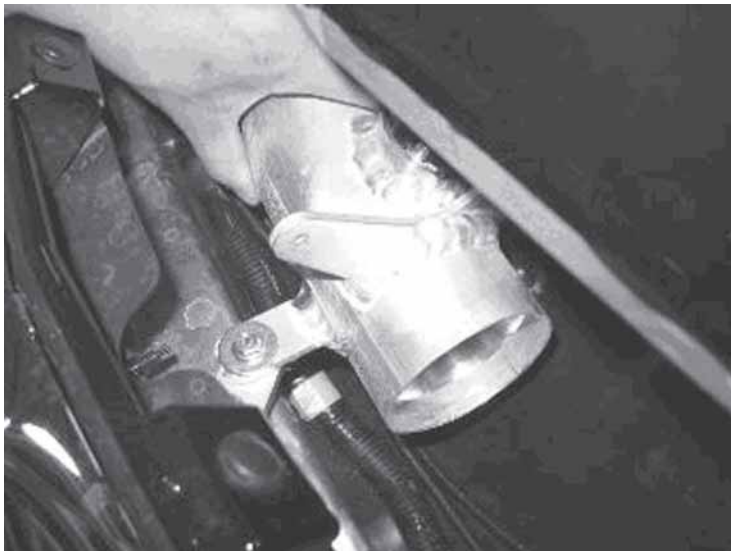
2j. The other end of the induction tube should be fully seated into the reducer coupler as shown. Do not tighten the clamp on the coupler yet.



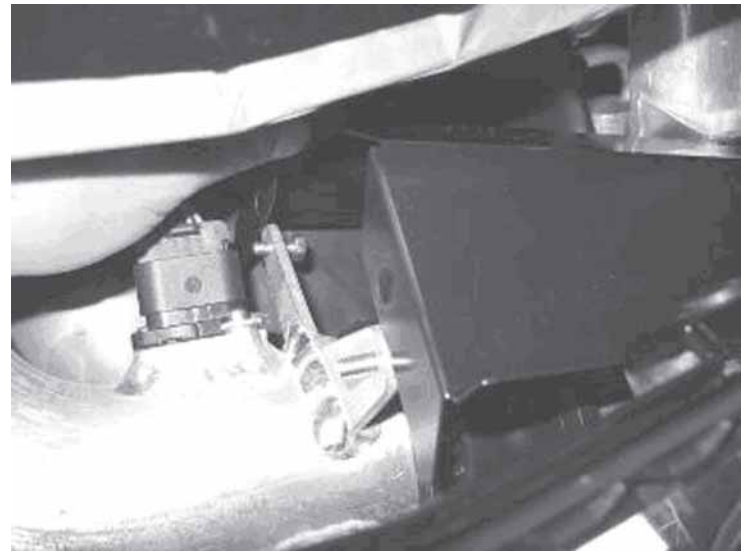
2l. Install the Air Filter Pre Filter onto the filter and install both onto the induction tube and secure with a size 52 clamp.



2k. Slide the pipe bracket into the front mount as shown.



2m. Install Splash Shield, using two M6 bolts.



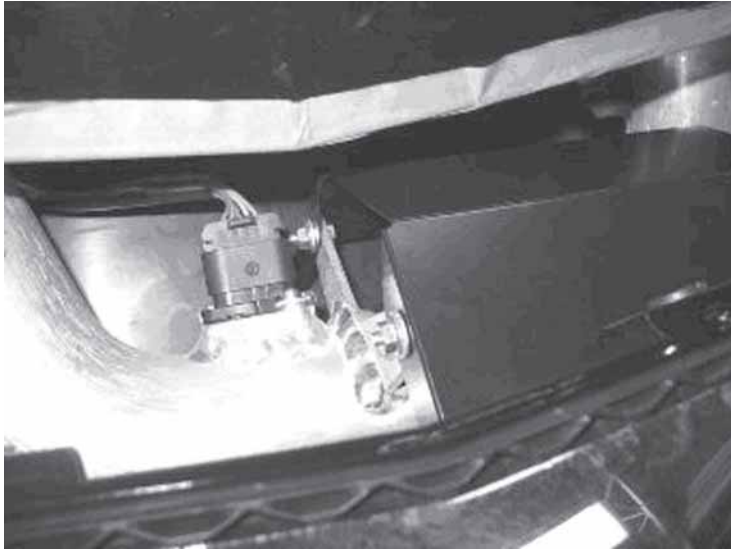
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2n. Secure M6 bolts with flat M6 washers and 6mm nuts.



2o. Line up splash shield with nub on the air filter.



2p. Plug MAF extension harness into the factory MAF connector. Check to make sure that no part of the harness is stretched or caught on any other parts of the vehicle. Lightly take up any zip tie slack with the harness and trim the zip tie's excess.



2q. Now that all components by the air filter are attached, position the pipe so it is not contacting other adjacent components. Pay close attention to the clearances surrounding the air filter and its splash shield to the plastic shroud and bumper/beam.



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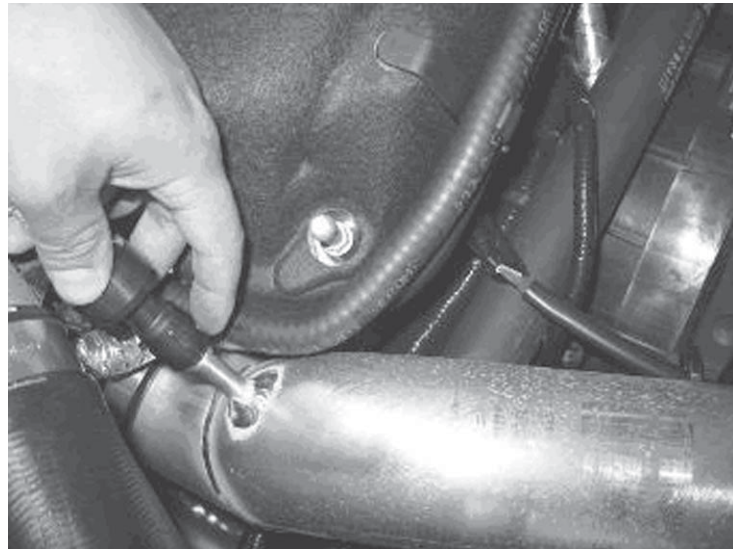
2r. Keeping the induction tube assembly in its optimal position, tighten front mounting hardware.



2s. Position size 48 clamp on the reducer coupler as shown and tighten



2t. Connect the PCV hose to the aluminum nipple on the induction tube. Be sure the locking clip is locked onto the nipple.



2u. Using a zip tie, gently take up the slack between the factory MAF harness wire and the rubber hose.

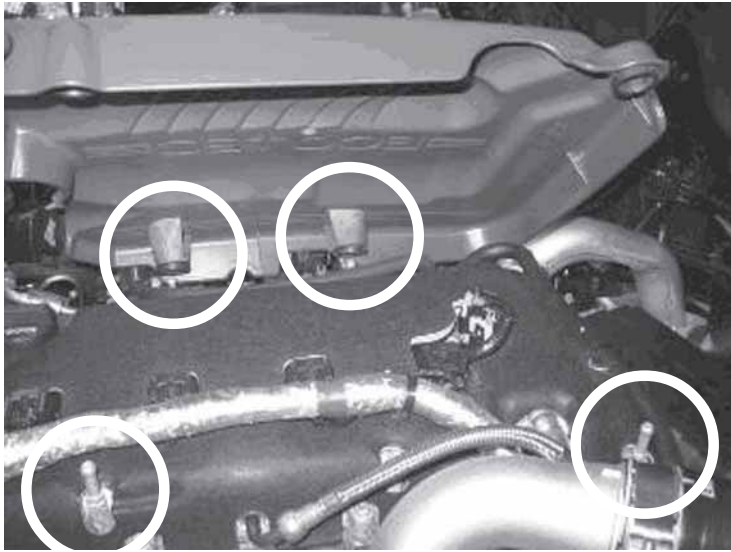


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2v. Install engine cover making sure all 4 grommets on the engine cover are fully seated onto their 4 studs (circled) on the engine.



2w. Congratulations, you have completed installation of your GM Performance Air Induction System. Check all clearances and make sure all fittings and all hardware is secure.



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