



SUBFRAME SPACER INSTALLATION MANUAL

2016 AND UP CAMARO AND CAMARO ZL1



WHIPPLE SUPERCHARGERS

3292 NORTH WEBER AVE

FRESNO, CA 93722

TEL 559.442.1261

FAX 559.442.4153

WWW.WHIPPLESUPERCHARGERS.COM

SUPPORT@WHIPPLESUPERCHARGERS.COM FOR A COPY

INTRODUCTION

Please read the installation manual and verify that all items are present. If you are missing hardware or have any questions, please contact your dealer or Whipple Superchargers. This subframe spacer kit includes a total of (12) 3/8" (.375") subframe spacers. Use 1 spacer per location as shown in the instruction manual.

ITEM NO.	PART NUMBER	DESCRIPTION	REVISION	QTY.
1	3103315	25MM ID SPACER	-	2
2	3103288	1/2IN ID X 1 1/8IN OD X 3/8IN LENGTH SPACER	-	6
3	3103290	SLOTTED 1/2IN ID X 1 1/8IN OD X 3/8IN LENGTH SPACER	-	4

RECOMMENDED TOOLS AND SUPPLIES

The following items are not included in this supercharger kit and it is strongly recommended that they're used for ease of installation or maximum performance:

Tools

Safety glasses, 1/2" assorted metric socket set, 1/2" torque wrench, transmission support/jack and under hoist stand.

Clean Shop Towels

Use these to keep the installation area clean.

SAFETY PRECAUTIONS



CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS AND WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION!

Danger: To avoid any vehicle damage, serious personal injury or death, always use the jack stands to support the vehicle when lifting the vehicle with a jack.

Caution: Perform the following steps before beginning any vehicle lifting or jacking procedure:

- Remove or secure all of the vehicle contents in order to avoid any shifting or any movement that may occur during the vehicle lifting or jacking procedure.
- The lifting equipment or the jacking equipment weight rating must meet or exceed the weight of the vehicle and any vehicle contents.
- The lifting equipment or the jacking equipment must meet the operational standards of the lifting equipment or jacking equipment manufacturer.
- Perform the vehicle lifting or jacking procedure on a clean, hard, dry, level surface.
- Perform the vehicle lifting or jacking procedure only at the identified lift points. DO NOT allow the lifting equipment or jacking equipment to contact any other vehicle components.

GLOSSARY OF TERMS

ABBREVIATION	DESCRIPTION
ACT	Air Charger Temperature
DTC	Diagnostic Trouble Code
ECT	Engine Coolant Temperature
EGR	Exhaust Gas Recirculation
ETC	Electronic Throttle Control
EVAP	Evaporative emissions system
FHSCS	Flat Head Socket Cap Screw
IAT	Inlet Air Temperature
IC	Intercooler
ID	Internal Diameter
LB-IN	Pound-force inch
LB-FT	Pound-force foot
LTR	Low temp radiator
MAF	Mass Air Flow
MAP	Manifold Absolute Pressure
MY	Model Year
OBD	On Board Diagnostics
OD	Outside Diameter
PCV	Positive Crankcase Ventilation
PSI	Pound per Square Inch
SC	Supercharger
SHCS	Socket Head Cap Screw
TPS	Throttle Pressure Sensor
TRQ	Torque



****NOTICE:** Installation of Whipple Supercharger products signifies that you have read this document and have agreed to the terms stated within.

It's the purchaser's responsibility to follow all installation instruction guidelines and safety procedures supplied with the product as it's received by the purchaser to determine the compatibility of the product with the vehicle or the device the purchaser intends to install the product on.

Whipple Superchargers assumes no responsibility for damages occurring from accident, misuse, abuse, improper installation, improper operation, lack of reasonable care or all previously stated reasons resulting from incompatibility with other manufacturer's products.

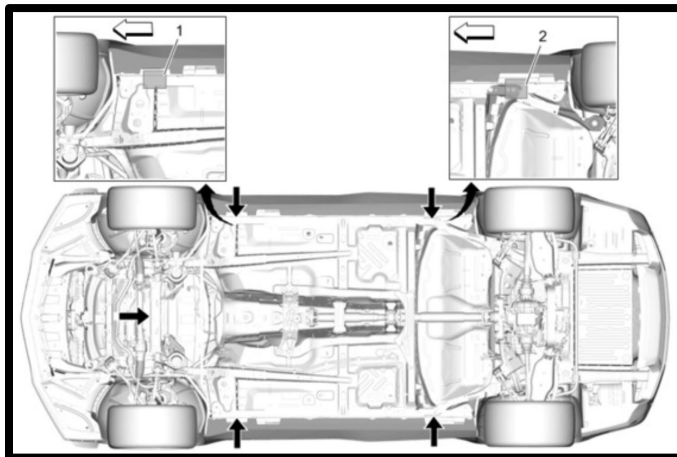
There are no warranties expressed or implied for engine failure or damage to the vehicle in any way, loss of use or inconvenience or labor reimbursement. This includes merchantability and fitness.

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. Whipple Superchargers reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

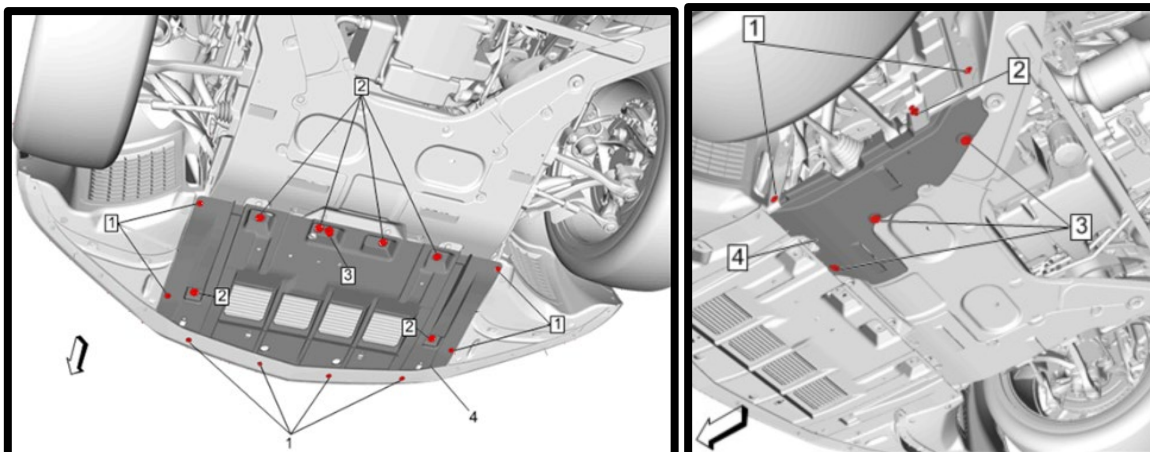
INSTALLATION INSTRUCTIONS

It is strongly recommended that you read through this guide **before** you begin installation.

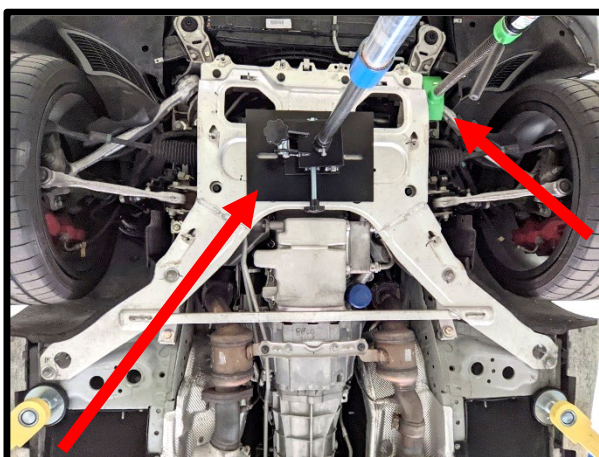
1. Lift the vehicle up using a low-profile lift or proper jack stands for full access under the vehicle. Use the stock lift points.



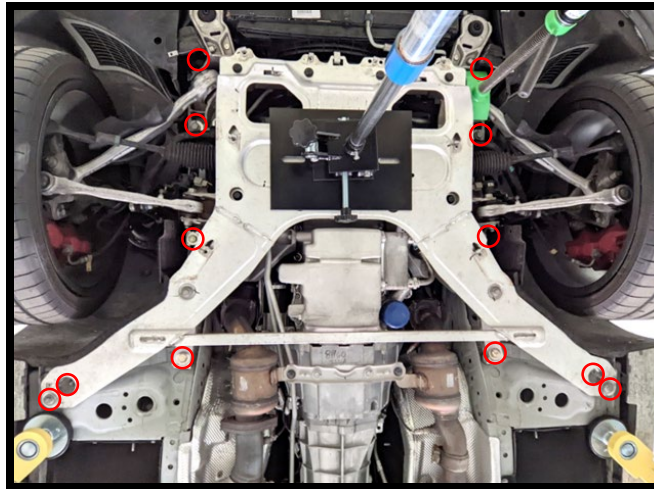
2. Remove the front compartment air deflector fasteners. Remove the front compartment side noise shield fasteners (LH and RH), then remove covers from vehicle.



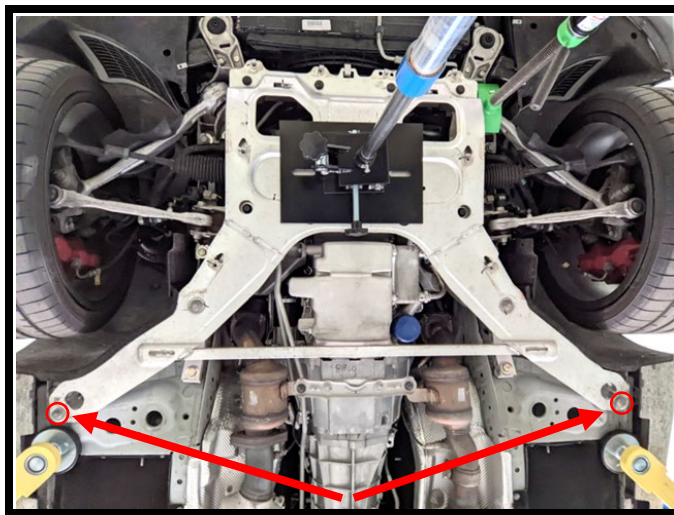
3. Using a transmission support jack or similar, support the front cradle shear plate. In some cases, you may need a under hoist stand to help separate body from cradle shear plate.



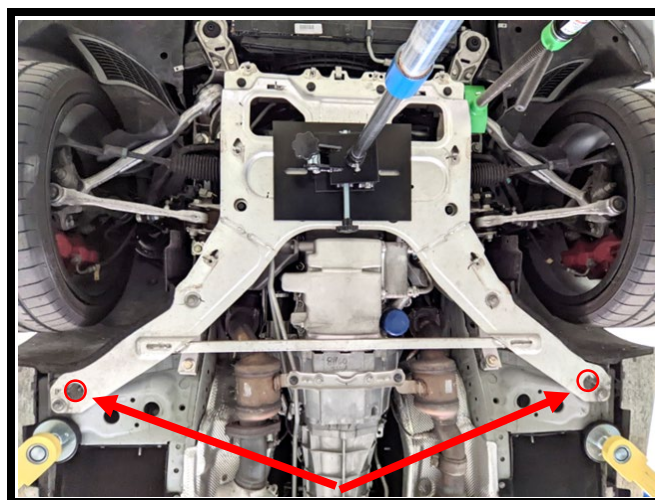
4. Slightly loosen the (10) bolts and (2) nuts shown below.



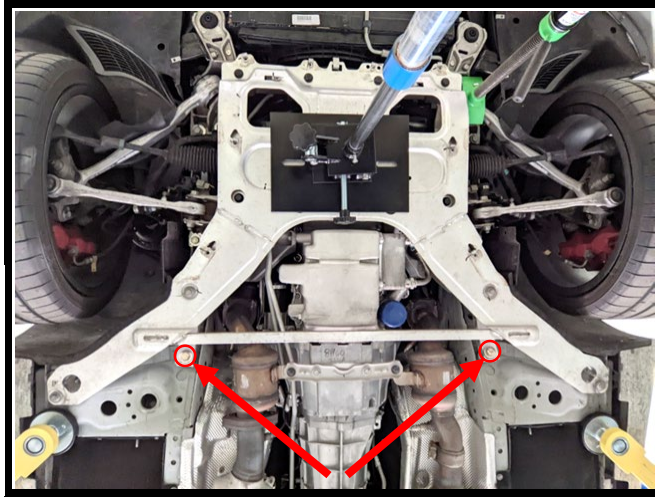
5. (Go side to side) Starting from the back bolt of the cradle shear plate, loosen the bolts, install the 1/2" ID x 3/8" spacer, 1 per side. Reinstall stock bolts, leave hand tight for now.



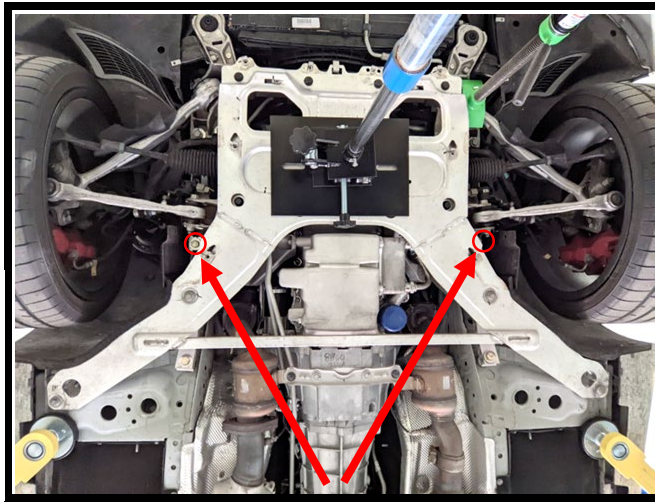
6. Loosen the (2) factory nuts. Install the 1/2" ID slotted 3/8" spacer, 1 per side. Reinstall stock nut and leave hand tight for now.



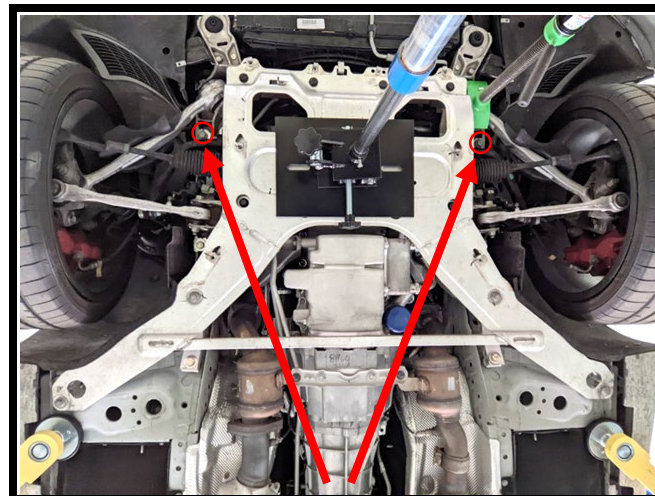
7. Loosen the (2) factory bolts. Install the ½" ID 3/8" spacers, 1 per side and use the supplied **M12 x 70mm** bolts. Leave hand tight for now.



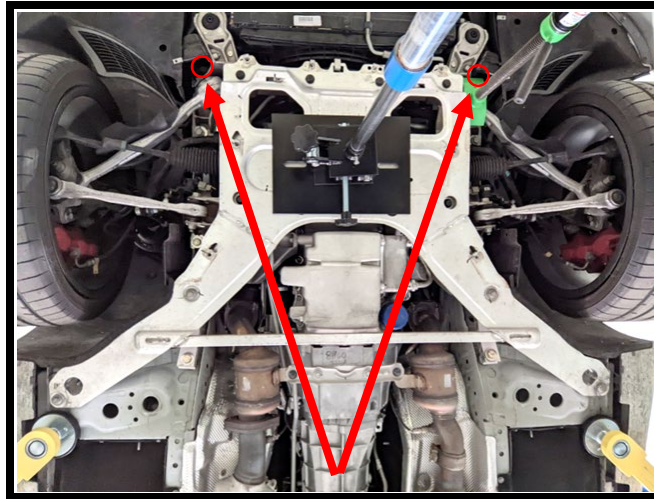
8. Loosen the (2) factory bolts. Install the ½" ID 3/8" spacers, 1 per side and use the supplied **M12 x 140mm** bolts. Leave hand tight for now.



9. Loosen the stock bolts from the chassis dowels. Install the (2) **25mm slotted 3/8"** spacers, 1 per side, secure with stock bolts. Leave hand tight for now.



10. Loosen the (2) factory bolts. Install the (2) **1/2" ID slotted 3/8"** spacers, 1 per side and use the supplied **M12 x 140mm** bolts. Leave hand tight for now.



11. Torque all bolts to 37 ft-lbs in a cross pattern.
12. Reinstall front compartment side noise shield and air deflector using factory hardware.