

HATPULVIC
AUTOMOTIVE
SPORT SUSPENSION

22417, 22418 & 22418R SWAY BAR SET
2002-UP SUBARU STi



**Thank you for your purchase from our line of Subaru WRX parts.
Please call us at (877) 4NO-ROLL if you have any questions regarding the service or installation
of your Hotchkis products. Visit us online @ www.hotchkis.net**

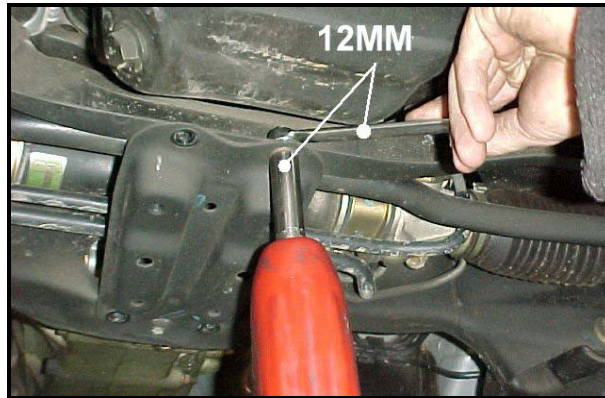
- This installation will require:
 - Hydraulic jack, ramps, torque wrench
 - The following wrenches or sockets: 12mm, 14mm, 17mm
 - Allen wrenches or hex sockets: 6mm

INSTALLATION OF HOTCHKIS FRONT SWAY BAR

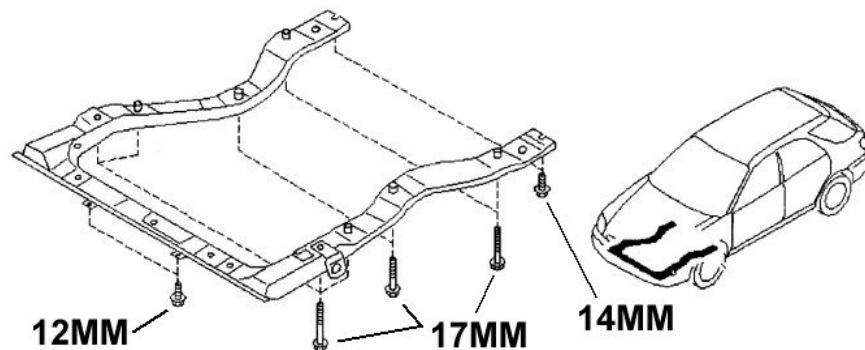
- 1) Securely block the rear wheels of the vehicle. Use a jack to raise the front end of the vehicle and support it on ramps. You MUST install the front bar with the car on the wheels. Observe the stock front sway bar installation for reference.
- 2) Remove the plastic splashguard from under the front of the vehicle. It is held in place by small plastic clips that can be removed by hand. Retain the clips and splashguard for re-installation.



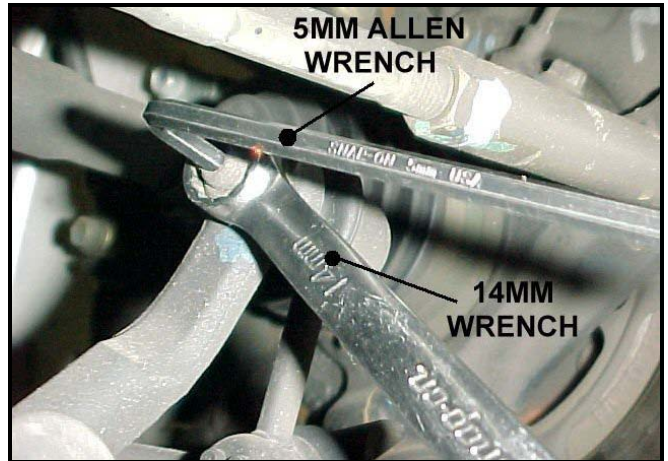
- 3) Use a 12mm wrench or socket to remove the four bolts holding the skid plate in place. Retain the hardware and skid plate for later re-installation.



- 4) Loosen and remove the bolts holding the front sub frame in place (observe the diagram). *The front sub frame is not weight bearing, and can be easily removed by one person without having to support the engine.* Retain all hardware for later re-installation. Remove the sub frame when unbolted.



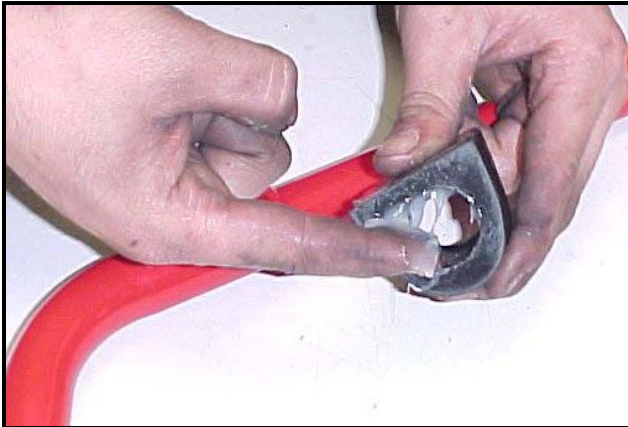
- 5) Unbolt the stock end link from the sway bar on each side. Use a 14mm wrench and a 5mm Allen wrench to remove the nut from the end link. Retain the hardware for re-installation.



- 6) Use a 12mm socket or wrench to loosen and remove the bolts holding the sway bar bushings and bushing retainer brackets in place. The front sway bar should now just drop out. Remove the stock front sway bar. Keep the hardware and brackets for later re-installation.



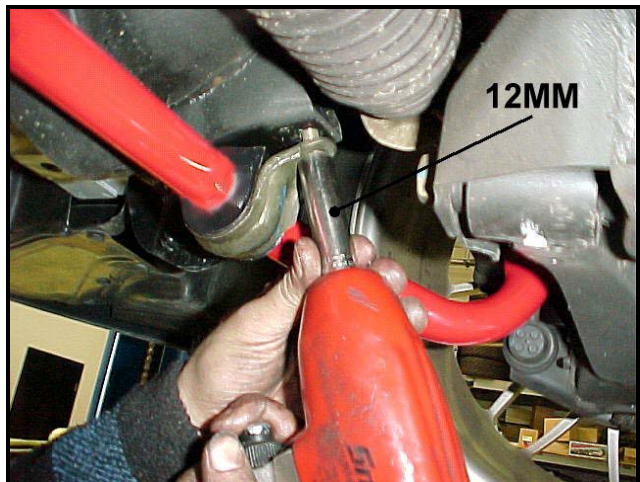
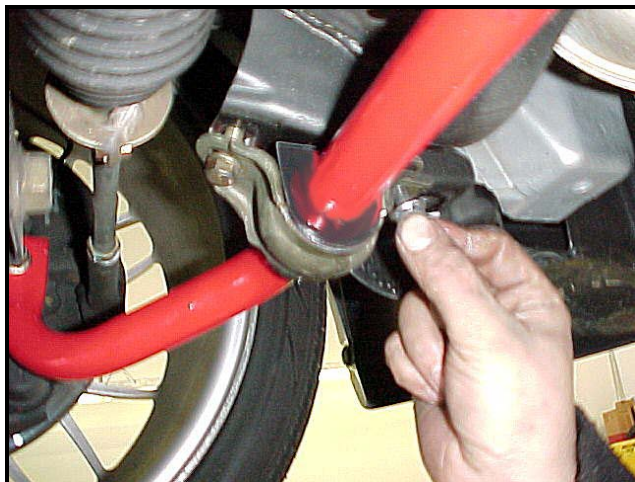
- 7) Use the grease provided to apply a thick coat of grease to the inside of the new bushings and slide the bushings over the bar. *Some early models of the bar may have centering washers. **These have since been removed, as they were found unnecessary with the Hotchkis bar.*** If you have washers on your bar the bushing goes to the outside of the washer.



- 8) Lift the Hotchkis sway bar into position the same way the stock sway bar came out. Use the stock mounting brackets and hardware to secure the new sway bar in place.



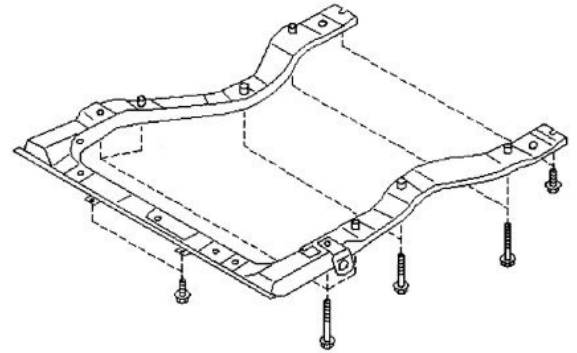
Use a 12mm wrench to tighten the hardware. *It may be easier to rotate the bar and connect it to the end links in the following steps with the bushings still slightly loose.* Torque the bolts to 30ft/lbs.



- 9) Rotate the Hotchkis sway bar into position until you can re-connect the end links. For stock end links you should use the 14mm wrench and 5mm Allen wrench you used to remove the nut. Torque the end link nut to 30ft/lbs.



- 10) Re-install the sub frame.



- 11) Re-install the skid plate and check all hardware for tightness. Install the splashguard to finish.



MOVE ON TO THE REAR BAR INSTALLATION

Please call us at (877) 4NO-ROLL if you have any questions regarding the service or installation of your Hotchkis products.

- This installation will require:
 - Hydraulic jack, ramps, torque wrench
 - The following wrenches or sockets: 10mm, 12mm, 13mm, 14mm
 - 13mm swivel socket, medium length (6-10") socket extension (reference step 4)

INSTALLATION OF HOTCHKIS TUNING REAR SWAY BAR

PLEASE NOTE: For the STI models, your rear endlink will bolt back in, just like the stock one.

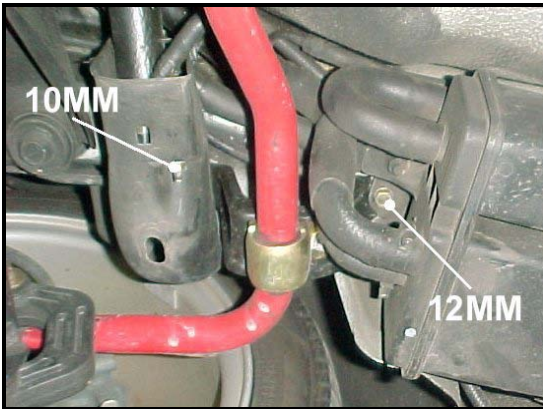
- 1) Securely block the front wheels of the vehicle. Use a jack to raise the rear end of the vehicle and set the wheels on ramps. IT IS EASIER to install the bar when it's on it's wheels.
- 2) Observe the stock sway bar installation for reference. Use a 14mm wrench or socket to loosen and remove the bolts holding the end links to the sway bar. Retain the hardware for later use.



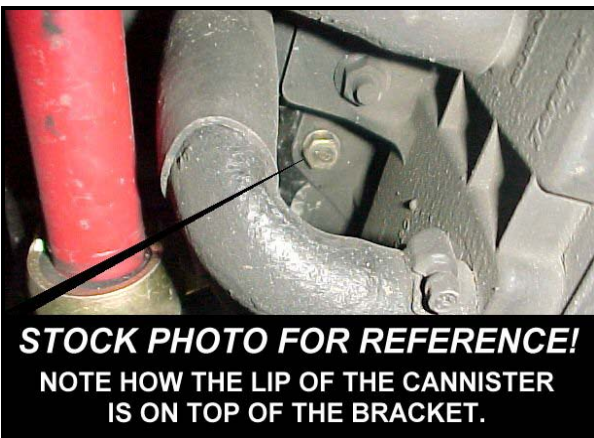
- 3) Next use a 12mm wrench or socket to remove to remove the bolts holding the sway bar brackets in place. The rear sway bar should now drop out of place. You will not be re-using any of the brackets, bushings, or hardware from the stock sway bar.



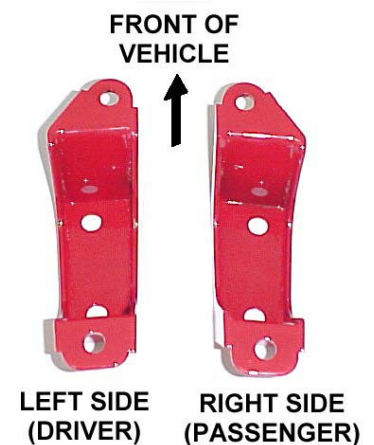
- 4) With the rear sway bar out of the way you can remove the stock frame brackets. Use a 10mm wrench or socket to remove the retaining nut holding the plastic shield over the gas fill pipe on the passenger side. Gently pull the plastic cover out of the way for access to the forward bracket bolt. Use a 12mm wrench or socket to remove the bolts holding the frame brackets.



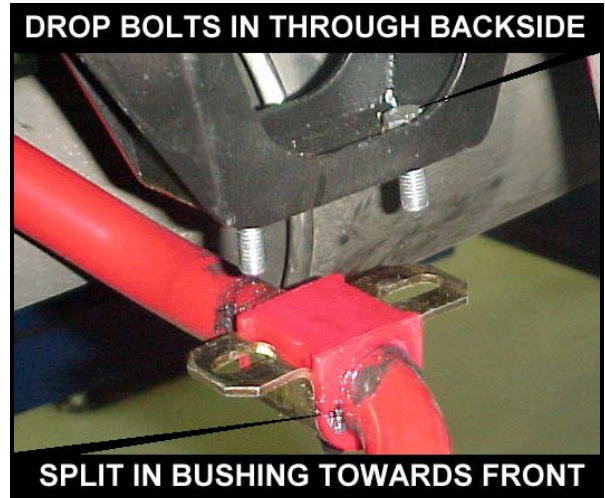
You will need a 13mm swivel socket and extension to remove the front bracket bolt on the passenger side. **This bolt is difficult to reach, but we do not recommend prying the gas lines out of the way for safety reasons!** You may discard the stock mounting hardware and brackets.



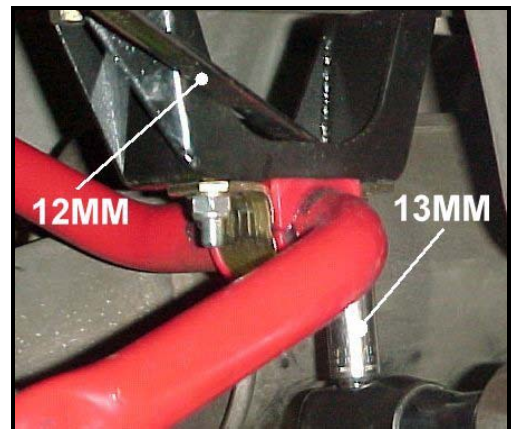
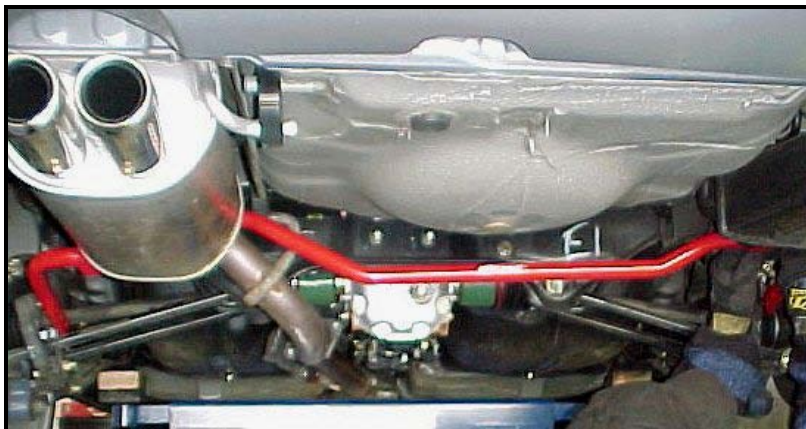
- 5) With both stock brackets removed you are ready to install the Hotchkis brackets. The bracket on the passenger side can be installed with the lip of the charcoal canister under the bracket instead of on top of the flange. **Use the new flange head bolts from the 1737 hardware kit included to bolt the brackets to the frame.** You will have to hand-start the front bolt on the passenger side. Use a 12mm socket or wrench to torque the bracket bolts to 30ft/lbs.



- 6) Use the grease pack included to apply a thick coat of grease to the insides of the new sway bar bushings. Then place the bushings over the sway bar with the split in the bushing towards the front of the vehicle. Place the bushing retainer brackets over the bushings. Insert the four remaining flange head bolts into the brackets from the backside.



- 7) Use a 12mm wrench or socket to hold the bolt head and a 13mm wrench or socket to tighten the nylock nut to mount the sway bar to the bracket. Torque the hardware to 30ft/lbs.



- 8) Reconnect the end links to the sway bar using a 14mm wrench or socket. Torque the hardware to 30ft/lbs. You may have to lower the car to the ground to rotate the bar to match the end links.



- 9) Make certain the zerk caps covering the grease fittings are in place. Re-check all hardware for tightness. Re-place the rear wheels and use the jack to remove the jack stands to lower the car, if you have not done so already. You should now be finished installing your new Hotchkis sway bar set!



IMPORTANT: For regular maintenance the bushings should be greased at least once a year (15,000 miles) or whenever excessive noise occurs. Use a non-lithium based grease, as lithium grease can wash out with water.



TVS
TOTAL VEHICLE SYSTEM

Subaru WRX Street Sway Bar kit, Parts List P/N 22418 & 22418R

	Hotchkis P/N	Item Description	Quantity Per Kit
22418			
4	22820136	1" Subaru Front Sway Bar, Hollow	1
5	22920218	1" Subaru Rear Sway Bar, Hollow	1
6	5664.01	Front Sway Bar Bushing, Subaru	2
7	25405	End Link Kit	1

'R' Kits are the same as the full kit, minus the front bar and front bushing P/N's 22820136 and 5664.01

Components In Kit 14407 (one per 22406 kit)

8	14520136	Mount Bracket, Left	1
9	14620136	Mount Bracket, Right	1
10	23090210	Universal Sway Bar Bracket, Small	2
11	5708.01	Small Greaseable bushing, 1"	2
12	9.11108	Grease Pack	2

Hardware In Kit 1737 (one per 14407 kit)

8	17490002	Flat Sided Sway Bar Washer	4
9	M8-1.25x25	Grade 10.9 Flange Head Bolt	4
10	M10-1.5x25	Grade 12.9 Socket Head Bolt	4

Items Not Pictured

11	n/a	Instruction Set	1
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Another satisfied sway bar set customer.

**Visit Hotchkis on the web at www.hotchkis.net or
Call (562) 907-7757 to order!**



Hotchkis Performance LLC Return Policy & Limited Warranty

Effective December 1, 2010 all Hotchkis products must be registered to qualify for warranty at www.hotchkis.net or via the mail-in warranty card, included with the product, within 30 days of the original purchase date.

IMPORTANT: This warranty supersedes all other warranties included with this product.

Return Policy

We want you to be completely satisfied with your Hotchkis Performance product. For products, presenting signs of shipping damage please contact the freight carrier immediately. All our products are guaranteed to be free from manufacturer's defects. If your order arrives with a manufacture defect, please contact our Customer Service Department at (562) 907-7757. You will be assigned a Returned Goods Authorization Number (RGA). The package you return must show the RGA on the outside of the package, include the original invoice and be shipped prepaid to our facility. The product has to be unused and in its original packaging materials. Exchanges or refunds made after 30 days will be subject to a 20% restocking charge. **If you purchased your Hotchkis Performance product from an authorized dealer, you are still covered by this return policy. All returns however, should be made to your dealer, not to Hotchkis Performance directly.**

Limited Warranty

Hotchkis Performance offers a Limited Warranty against defects in materials and workmanship for the term of 36 months (3 years) from the date of purchase of this product. This Warranty only applies to the original retail purchaser who retains ownership of the vehicle on which the product was originally installed. If the product is determined to be defective, Hotchkis Performance will repair, replace or refund the purchase price of the defective product at Hotchkis Performance's sole discretion, which shall fully satisfy and discharge any and all warranty claims. Any repaired or replaced product will be returned to the sender excluding the cost of freight. **Products must be registered to qualify for warranty at www.hotchkis.net or via the mail-in warranty card, included with the product, within 30 days of the original purchase date.**

Exclusions from Warranty

Items offered but not manufactured by Hotchkis Performance are warranted according to the manufacturer's terms and are not covered by this limited warranty. Hotchkis Performance shall not be responsible for any labor, removal, installation, re-installation or maintenance costs. This warranty does not cover the cosmetic finish or plating of any product or any normal wear and tear to any product including, but not limited to bushings, brackets, end-links, hardware, steering components, shocks or springs. In addition, this warranty does not apply to any products that have been:

- **Improperly installed or installed by someone other than a qualified, licensed auto mechanic experienced in the installation and removal of suspension products;**
- **Improperly serviced, misused, or modified, altered or subjected to abuse, negligence, accident or collision;**
- **Installed in any vehicle that has been modified;**
- **Installed on any vehicle that has carried loads in excess of automobile manufacturer suggested weight limits; or**
- **Installed on any vehicle that has been subject to abnormal or excessive use, including rallying, racing, or racing-type activities or off-road use.**

Limitation of Warranty

This limited warranty is the entire and only warranty for the products and may not be modified or supplemented by any other person or company in any form. Any description of the products, by anyone, is for the sole purpose of identifying them and is not part of the basis of the bargain, and

does not constitute a warranty that the products will conform to that description. The statements of any salesperson do not constitute part of this limited warranty and cannot be relied upon as a warranty.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. THIS WARRANTY DOES NOT COVER CONSEQUENTIAL DAMAGES, LOSS OF TIME OR REVENUES, INCONVENIENCE, LOSS OF USE OF THE VEHICLE, DAMAGE TO THE VEHICLE OR COMPONENTS OF THE VEHICLE, ANY OTHER TYPE OF CONSEQUENTIAL DAMAGES, OR OTHER INCIDENTAL OR INDIRECT DAMAGES. HOTCHKIS' MAXIMUM LIABILITY UNDER THIS WARRANTY SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages and in such states the above limitations or exclusions may not apply. This limited warranty gives the purchaser specific legal rights and the purchaser may have other rights that may vary from state to state.

Technical Information

Hotchkis Performance makes every effort to ensure that you are provided with the most accurate and up-to-date technical information. However, all technical information is approximate and may vary upon application. Additional suspension components may be needed in some applications, depending upon the make, model, engine and chassis of the vehicle. Hotchkis Performance is not responsible for any consequences resulting from manufacturer's technical mid-year changes. Hotchkis Performance products should only be installed by a qualified, licensed auto mechanic experienced in the installation of such products.

Warranty Claim Procedure:

The answer to ALL the following questions should be YES before making a warranty claim:

- **Did you register the product at www.hotchkis.net or via the mail-in warranty card within 30 days of purchase?**
- **Is the product appropriate to your application?**
- **Did you carefully and thoroughly read the instructions provided along with the product?**
- **Do you have the original invoice or sales receipt?**
- **Is the return date within 36 months from the purchase date?**
- **Are you the original purchaser?**
- **Was the product properly installed by a qualified, licensed auto mechanic?**
- **Has the product been installed on the original vehicle on which it was installed at all times?**
- **Is the product unmodified and clean?**
- **Is the reason for return a legitimate product defect?**

If the answer to all these questions is YES, please contact our Customer Service Department at (562) 907-7757. You will be given a Returned Goods Authorization Number (RGA) valid for 60 days. You will also be asked to ship the product prepaid to our facility. All shipments MUST be (i) prepaid, (ii) include the original invoice or sales receipt, (iii) show the RGA on the outside of the package and (iv) include your name, address, make and model of the vehicle, and a brief description of the claimed defect, including the circumstances under which the defect occurred. If the warranty claim is deemed valid then Hotchkis will estimate shipping costs to return the repaired or replacement part and contact you for payment. Hotchkis's Limited warranty requires that any repaired or replaced product will be returned to the sender excluding the cost of freight. Warranty related inquires should be sent to the following address:

**HOTCHKIS PERFORMANCE, LLC
C/O CUSTOMER SERVICE
8633 Sorensen Avenue
SANTA FE SPRINGS, CA 90670**

Hotchkis Performance will not accept product returns without the RGA number, receipt and the information described above. C.O.D. or collect shipments will be refused. Once the returns are received at Hotchkis Performance, we will evaluate the products, verify the sales receipt, and investigate the warranty claim. Any repaired or replaced product will be returned to the sender.

Effective December 1, 2010. This return policy and limited warranty supersedes all previous policy and warranty statements. Policies and warranties are subject to change without notice. Hotchkis Performance is not responsible for printing errors.