

# **HOTCHKIS**

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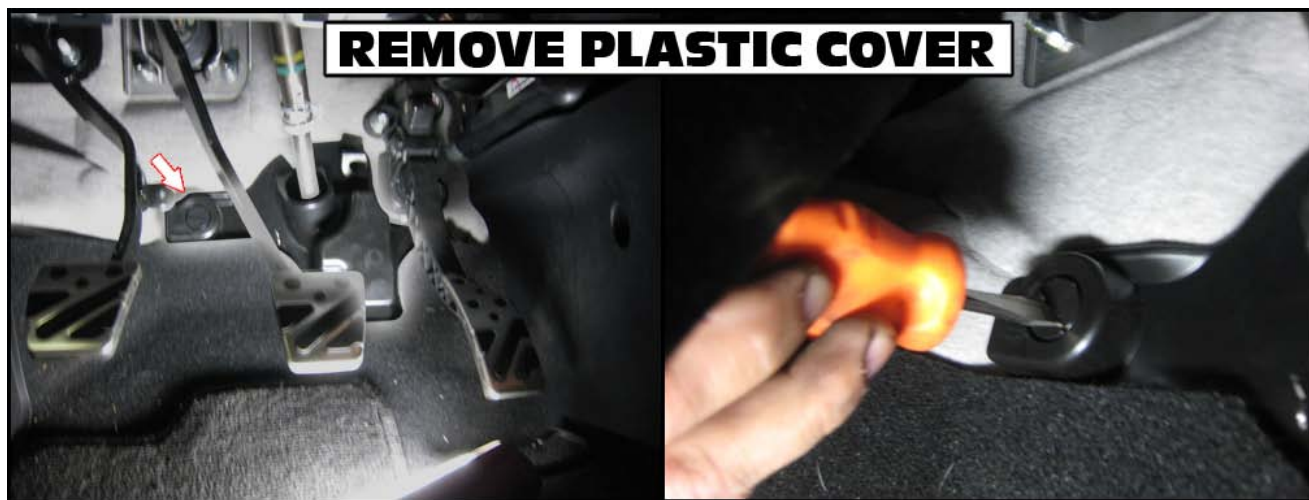
## **SPORT SUSPENSION**

### **22440 FRONT & REAR SPORT SWAY BAR SET** **2008+ Mitsubishi Evolution X**



#### **INSTALLATION OF HOTCHKIS FRONT STABILIZER BAR**

- 1) Raise the vehicle using a 4-post Lift or alignment rack. It is not recommended to perform this installation on a 2-post lift. This install requires the technician to disconnect the front subframe which may be difficult/dangerous on a 2-post lift.
- 2) Please look at the original front antiroll bar and note the orientation of the front bar. You will want to install the new Hotchkis bar in the same manner.
- 3) From inside the car, on the driver's side floor, remove the plastic steering shaft cover.



- 4) Mark the steering shaft joint and exterior shaft before you move to the next step so you can return the shaft to its original position when complete.



- 5) Loosen the bolt that connects the bottom shaft to the upper shaft then unHINGE the two pieces.



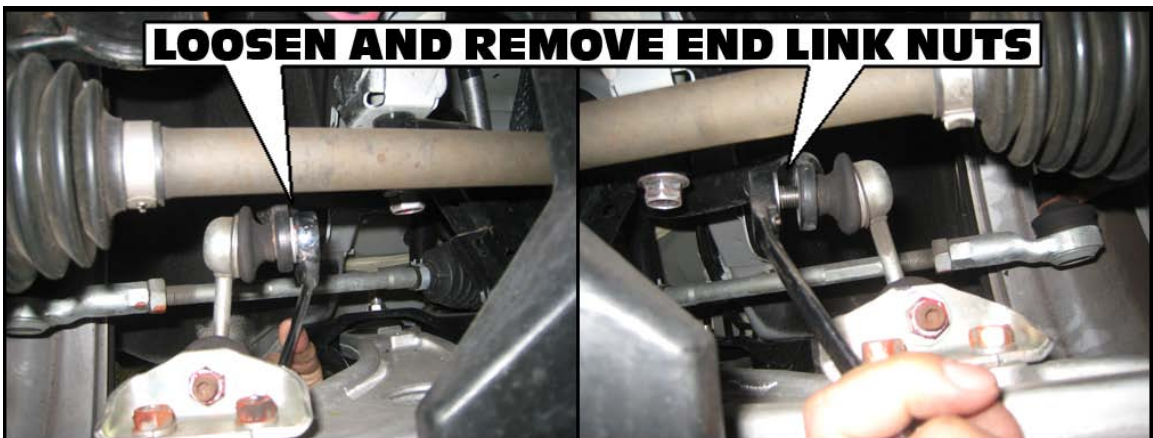
- 6) Underneath the car, remove the brace as shown below.



- 7) Loosen all 3 bolts of the triangular shaped mounting plates. Completely remove the bolt that connects directly to the body. Leave the 2 on that connect to the subframe.



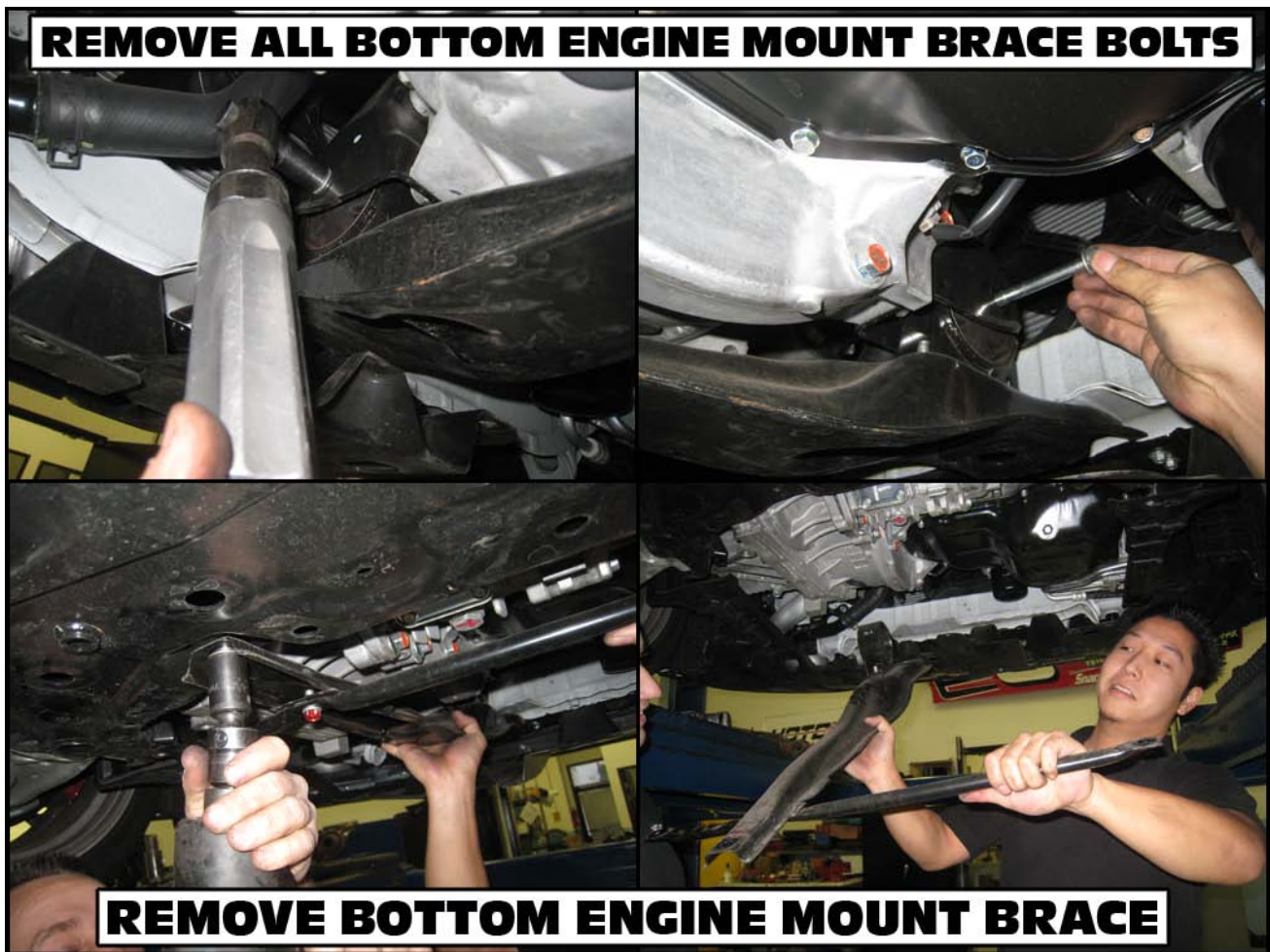
- 8) Loosen and remove the end link nuts, then disconnect the end links from the stock sway bar.



- 9) Remove the factory plastic undertray from the car.



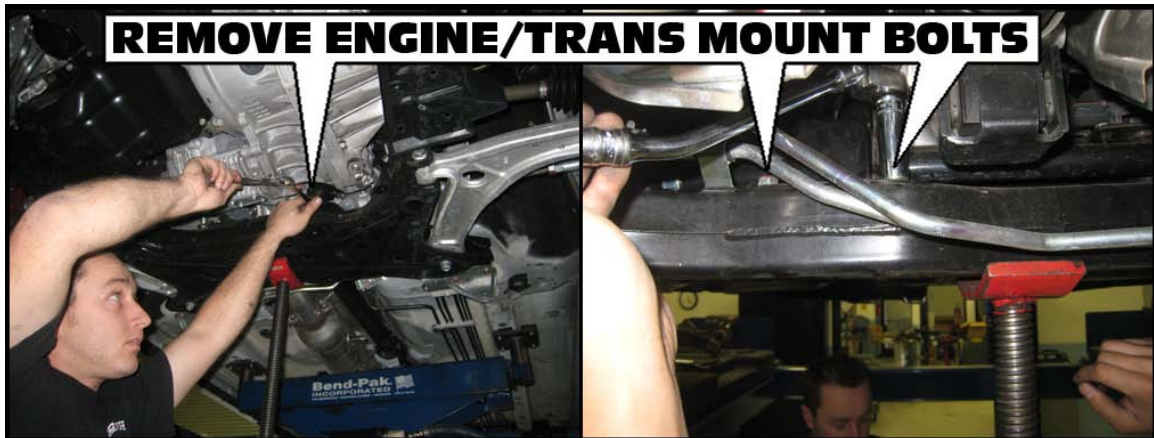
- 10) Remove all bolts that hold the front engine mount brace in place and remove the brace.



- 11) Raise the car up slightly. Doing this will allow the subframe to drop lower when the main bolts are removed at a later step and will allow access to the front sway bar. Use a screw jack or similar to support the subframe.



- 12) Remove the engine/transmission mount bolts. There is one located on the front end of the subframe and two located on the back end.



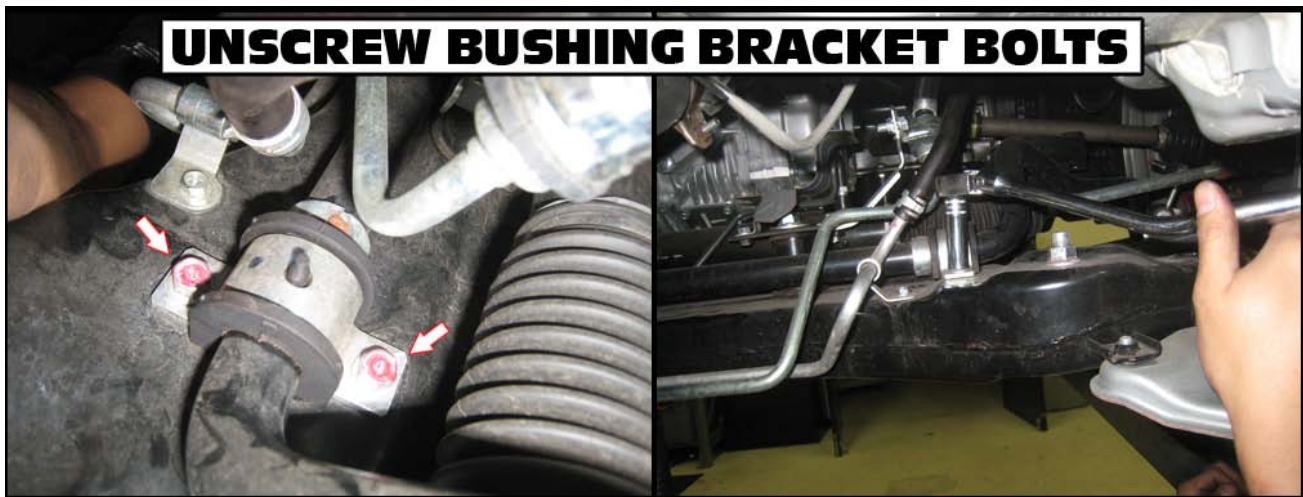
- 13) Remove the 4 subframe main bolts. There will be two on each side. Once the bolts are out, lower the screw jack slightly to allow the subframe to drop for access to the sway bar.



- 14) Unscrew power steering line bracket bolts located near the passenger side.



- 15) Unscrew bushing bracket bolts.



- 16) Remove factory brackets & bushings.



- 17) Remove factory sway bar.



- 18) Slide the Hotchkis sway bar into place.



- 19) Lube the bushings with the supplied grease then install onto sway bar.



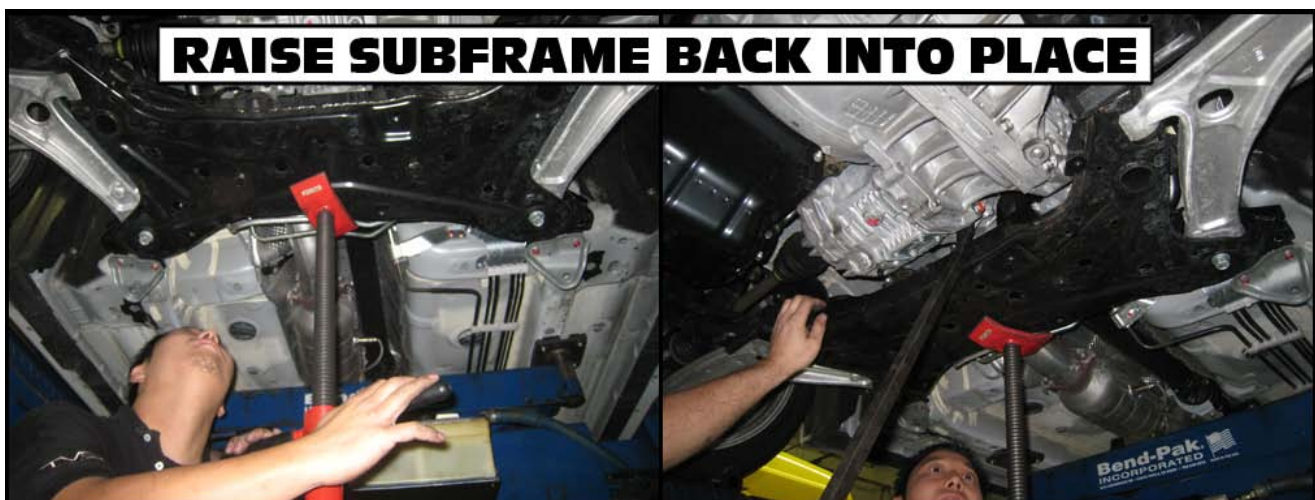
- 20) Install the bushing brackets and fully tighten them using the included bolts and flat cut washers. The front sway bar uses the longer Ø8mm x 25mm bolts.



- 21) Check between the sway bar and gray power steering line for clearance. You may have to hand bend the line upwards slightly.



- 22) Raise the subframe back into place. You may need a pry bar to help nudge it into its original position.

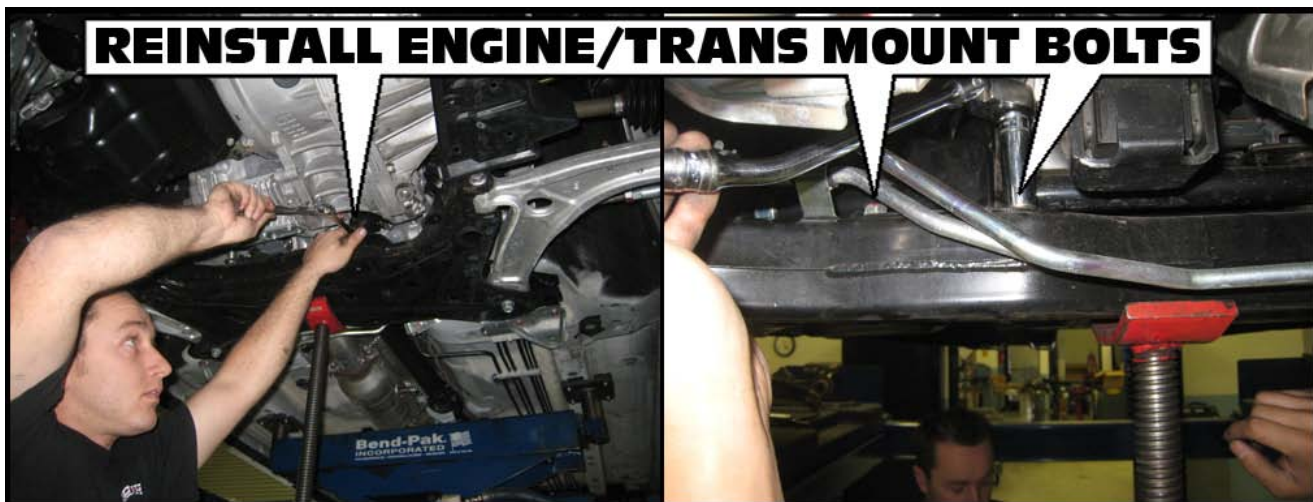




- 23) Reinstall the 4 subframe main bolts to secure the subframe back into place.  
Remove the screw jack.



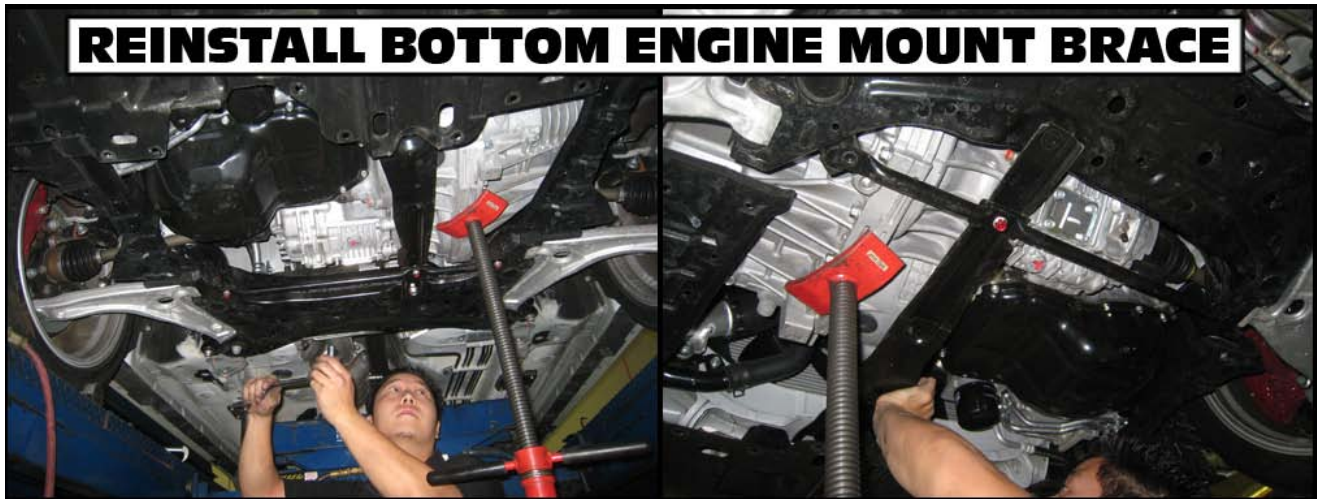
- 24) Reinstall the 3 engine/transmission mount bolts



- 25) Reinstall the triangular shaped mounting plates.



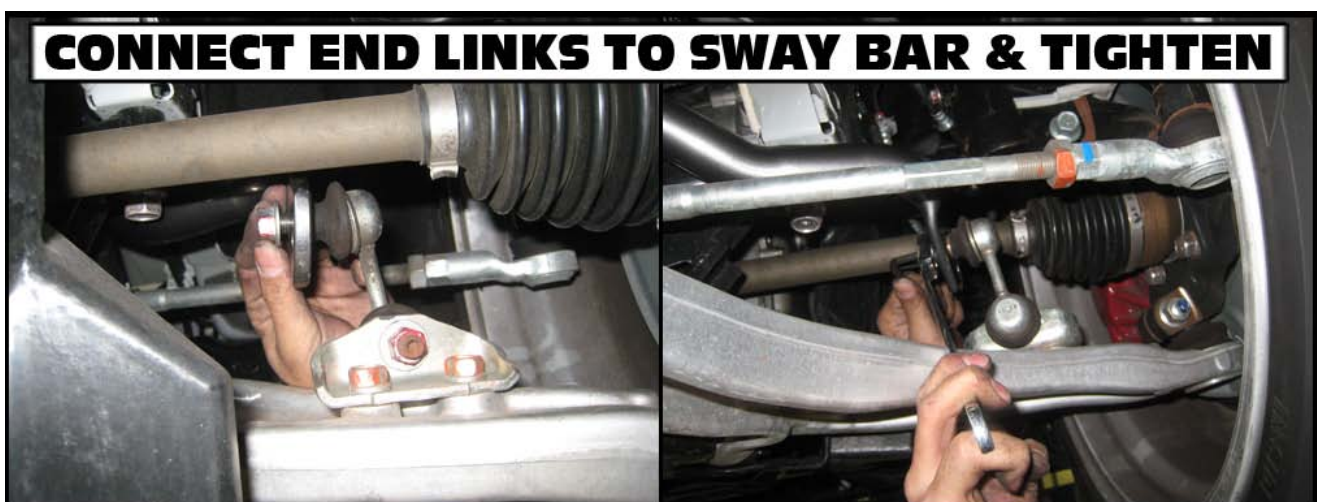
- 26) Reinstall the front engine mount brace. You may need the screw jack again to help raise or lower the transmission as needed.



- 27) Reinstall the brace that was removed in step 6.



- 28) Connect the end links to the sway bar and fully tighten. Your Hotchkis front bar has 2 hole adjustments. The hole closest to the end is the softest setting.



- 29) Reinstall the plastic undertray using the stock hardware.



- 30) Lower the car and from inside, reconnect the steering shaft and replace the plastic cover.



- 31) After driving the vehicle, re-check all hardware for tightness. You are finished with the front sway bar installation

**IMPORTANT:** For maintenance, use the zerk fittings to grease the bushings at least once a year (15,000 miles) or when excessive noise occurs. Use a silicone based grease only! A lithium-based grease can wash out with water and should not be used.

## INSTALLATION OF HOTCHKIS REAR SWAY BAR

- 1) Raise the vehicle using a lift or jack stands.
- 2) Take a look at the factory rear bar installation and note how the bends curve around the other parts in the car.
- 3) Remove the nuts that connect the end links to the sway bar and pull the end link out of the bar.



- 4) Unscrew the factory bushing brackets



- 5) Remove the factory bushing brackets and bushings.



- 6) Remove the factory sway bar.



- 7) Slide the Hotchkis sway bar into place and install the end links to the ends of the bar to help hold it up. Do not fully tighten the end links.



- 8) Lube bushings with the supplied grease and install. Place the bushings over the Hotchkis bar in roughly the same location as the factory installation.



- 9) Install bushing brackets and fully tighten.



- 10) Fully tighten end link nuts. Your Hotchkis Rear bar has 3 hole adjustments. The hole closest to the end is the softest setting.



- 11) Check that all hardware is tight. Use the caps provided to cover the zerk fittings and you're done installing the Hotchkis antiroll bar!



**IMPORTANT:** For maintenance, use the zerk fittings to grease the bushings at least once a year (15,000 miles) or when excessive noise occurs. Use a silicone based grease only! A lithium-based grease can wash out with water and should not be used.

SEE NEXT PAGE FOR PARTS LIST

# 2008+ Mitsubishi Evolution X Sway Bar Kit, Parts List

## **P/N 22440**

	Hotchkis P/N	Item Description	Quantity per kit
1	22830363	Front Stabilizer Bar	1
2	22930371	Rear Stabilizer Bar	1
3	15.12.06.39R-90	Front Bushing Bracket 90° Zerk Fitting	2
4	15.12.06.39R	Rear Bushing Bracket Straight Zerk Fitting	2
5	17490002	Flat Cut Washers	8
6	5344G	1-1/4" bushing	4
7	M8-25HEXFLG	M8 - 1.25 X 25mm Flange Bolt (FRONT)	4
8	M8-20HEXFLG	M8 - 1.25 X 20mm Flange Bolt (REAR)	4
<b>Items Not Shown</b>			
9	9.11108	Grease Pack	2
10	n/a	Instruction Set	1

