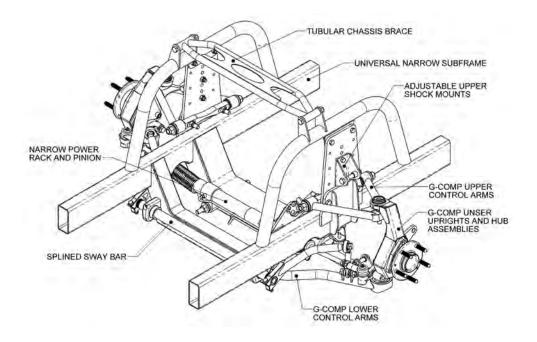
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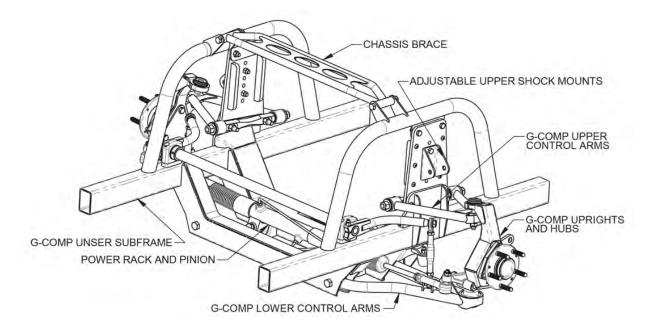
G-Comp X Universal Front Suspension Kits

G-Comp X kits take the proven performance of G-Comp to the next level. Designed with additional stiffness, race car-like adjustability, and the ability to run wider wheels/tires while maintaining adequate turning angle and reducing scrub radius. G-Comp X is designed and built in Lincoln, Nebraska.

350-3000-54



350-3000-56, 350-3000-58, 350-3000-60 and 350-3000-62



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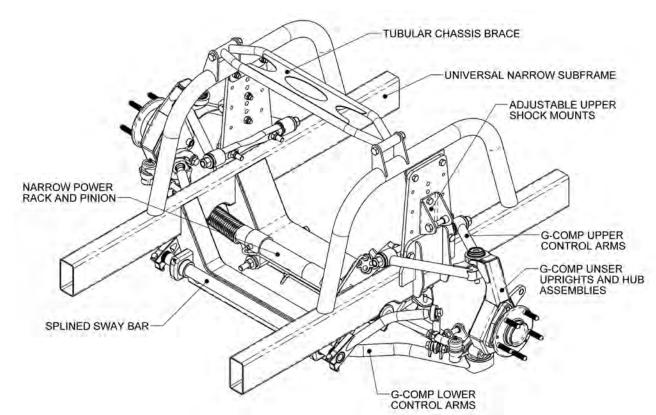
350-3000-54 - G-Comp X Universal Suspension

Kit Contents				
Qty	Part#	Description		
1	350-3000.25	Subframe Weldment		
1	350-203	Upper Arms		
1	350-204	Lower Arms		
1	350-1100	Uprights		
1	910-35345	Power Rack and Pinion		
1	350-2000.7.8	Sway Bar Kit		
1	350-3000.12	Hardware Kit		
2	910-34316-MAN	Tie Rod End		
1	350-2000.7.13	Steering Arms - Pair		
1	350-100.2	Camber Shims		
2	350-3502*	G-Comp X Heavy Duty Wheel Bearing Hub Upgrade		

* Revision Note - October 15, 2025

Kit Components List updated to reflect the new #3503502 - G-Comp X Heavy Duty Wheel Bearing Hub Upgrade, replacing #350350 - GM Genuine 85144278 C7 Corvette Front Wheel Hub & Bearing.

This kit is designed as a performance upgrade to the OEM suspension system in almost any vehicle. This installation will involve fabrication and welding to connect the new subframe weldment to the existing structure of the vehicle. As such, this should only be attempted by an experienced fabricator familiar with this type of work.



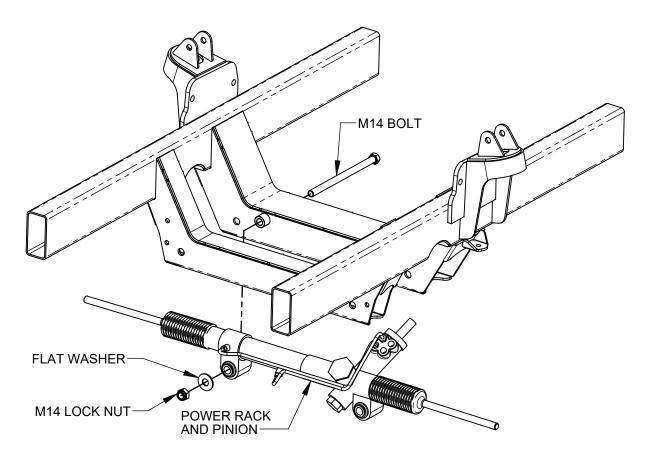
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Please read and understand these instructions completely BEFORE starting this project.

To start, determine desired ride height based on the tire size you will be using. The axle centerline for this suspension is 1-1/4" above the lower surface of the frame rail at designed ride height and 26-3/8" back from the front edge of the subframe rail. **NOTE:** This 26-3/8" dimension will vary slightly depending on how much caster you put in the suspension - more caster will move the centerline back. Based on this, calculate the frame rail height dimension. For example: (see illustration) if the proposed tire diameter is 28", then the centerline of the tire (spindle centerline) would be 14" (28"/2) above ground level. Subtracting the 1-1/4" from the 14" leaves the lower surface of the rail at 12-3/4" above the ground. Now, substitute your desired tire diameter into this formula to calculate your frame rail height. Mock the vehicle up at your desired ride height and determine the best way to attach the subframe weldment to the existing structure of the vehicle while maintaining this relationship. In the case of a full frame car, cutting the existing frame near the firewall and fabricating a 2x4, 2x3 or similar tube rail to attach the subframe to the existing structure is an option. Depending on the condition of the existing frame or plans for the rear suspension, it may also be easier and better to fabricate an entirely new full frame. On unibody type vehicles, the job can be a bit tougher and require a bit more engineering as these vehicles have no real frame rail to start with. It is up to the fabricator to determine the best method to use and to ensure that the completed chassis is structurally rigid enough to handle the input loads that will occur as the vehicle is driven. If you are inexperienced in this type of fabrication, it is highly recommended that you seek the assistance of a professional shop that has experience in this area.

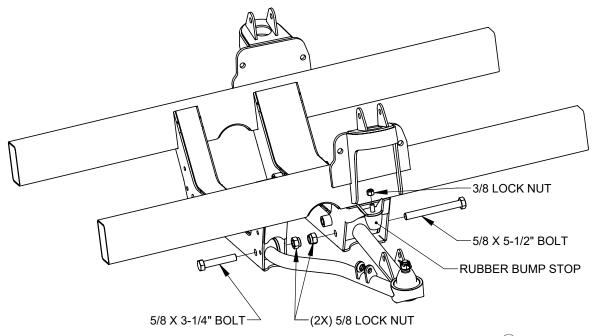
Steering Rack: This G-Comp X front suspension kit is designed to use a specially built narrow rack and pinion. Install the steering rack as shown, using the two 14mm bolts, washers and lock nuts through the sleeves in the main cradle. The bolts will come in from the rear of the cradle as shown.



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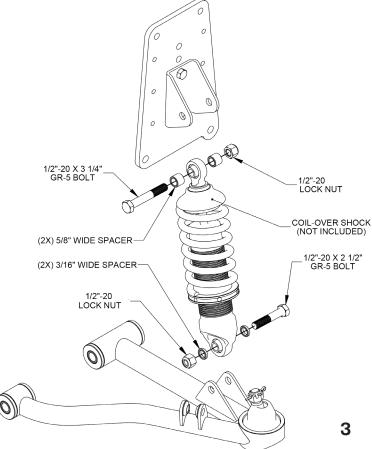
Install the lower control arms into the crossmember. Align the control arm bushings with the lower control arm holes in the cross-member. The front bolts, 5/8"- 18×3 -1/4" are to be installed from the front side. The rear bolts, 5/8"- 18×5 -1/2" are to be installed from the rear. Install the 5/8"-18 lock nuts and tighten. Install the lower control arm bump stops to the sub-frame using the supplied 3/8" lock nuts as shown.



Install the shocks:

Assemble the coil over by installing the threaded adjusting collar onto the threaded shock body. Adjust the collar all the way to the end of the threads. Place the spring over the shock body and install the spring cup onto the shock. Using the 1/2"- 20×2 -1/2" bolts and two 3/16" wide spacers, install the shock into the lower mount on the control arm as shown and secure with a 1/2"-20 lock nut. Install the 1/2"- 20×3 -1/4" upper shock bolts and 5/8" wide spacers, placing one spacer on each side of the shock bearing. Secure with a 1/2"-20 lock nut.

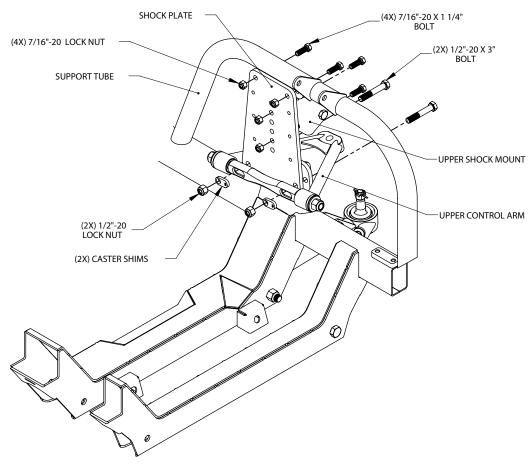
NOTE: This kit is designed to use shocks with a 4" stroke and compressed length of 10" or a 5" stroke with a compressed length of 12". Shock ends should be 1/2" bearings with a mounting width of 1". For recommended part numbers please visit our website or contact one of our tech experts.



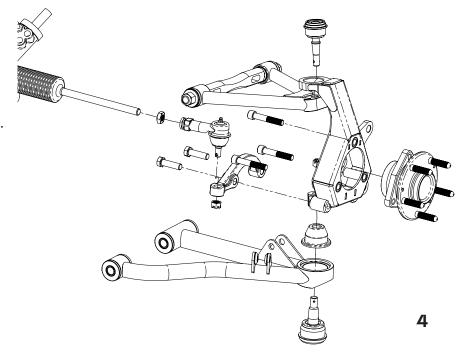
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Install the shock plates and upper control arms. Place the shock plate between the control arm and subframe and install the upper control arm by rotating the cross shaft so the caster shim pockets are facing the center of the vehicle as shown. Mount the upper control arms using the 1/2"-20 x 3" bolts and lock nuts. Install the bolts through the sub-frame, shock plate, cross shaft, and caster shims. Secure with 1/2"-20 lock nuts. Install the 7/16"-20 x 1-1/4" bolts and lock nuts into the top holes of the shock plate to secure it to the support tube. The adjustable upper shock mount can now be installed as shown using the remaining 7/16"-20 x 1-1/4" bolts and lock nuts.



Install the uprights and steering arms. Install the upright onto the lower ball joint and fasten with the supplied castle nut. Repeat with the upper ball joint and install the cotter pins. Bolt the steering arms to the spindles using the 1/2"-20 x 1-3/4" bolts. **NOTE:** Loctite or similar thread locker should be used on these threads.

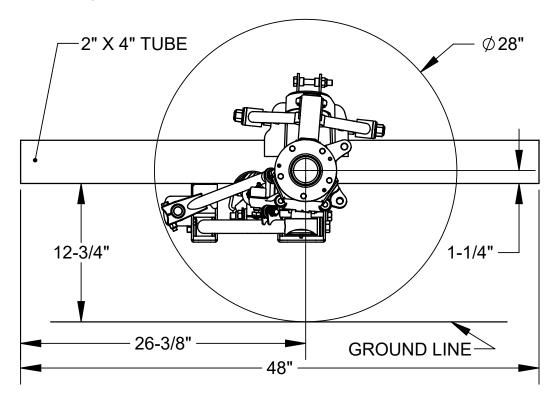


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Install the hubs:

The Corvette style hubs included with this kit use metric hardware, including metric lug nuts. Using the supplied M12 metric bolts and Loctite or similar thread locker, secure the hubs to the uprights. The fit of the hub into the upright is a close tolerance fit and it may be required to remove any paint or powder coating from the inner bore of the upright before assembly.



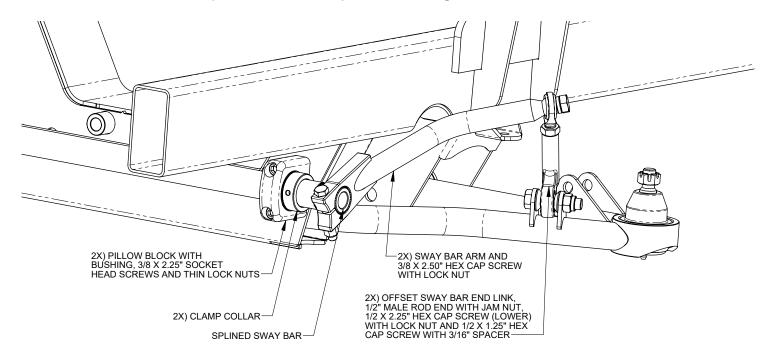
Install the outer tie rod ends and jam nuts onto the inner tie rods of the rack. Thread both tie rod ends on equally. Attach the tie rod ends to the steering arms using the castle nuts supplied with the tie rod ends. Tighten and install the cotter pins. Final alignment will be done after the vehicle is complete and set on the ground.

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Sway bar assembly:

Press the bushings into the aluminum pillow-blocks and install the pillow-blocks to the front cross member with the bushing shoulder to the outside. Mount the pillow blocks to the face of the front cradle as shown using the four 3/8"-24 x 2-1/4" socket head cap screws and 3/8"-24 thin lock nuts. Slide the sway bar through the bushings, installing the two clamp collars to the outside of both pillow blocks. Tighten the 3/8" cap screws holding the pillow blocks. Center the sway bar between the pillow blocks. Slide one clamp collar up against the bushing shoulder in the pillow block and tighten the set screw. Slide the second clamp collar up to the opposite bushing in the pillow "075" of side clearance between the clamp collar and the bushing. A nickel is about .075 thick and can be used as a spacer between the clamp collar and the bushing to provide the proper side clearance. Tighten the clamp collar set screw. Assemble the sway bar links as shown, leaving roughly 1/4" of threads showing. Slide the sway bar arms onto the splined ends of the sway bar aligning them flush with the end of the bar. Make sure they are parallel or "clocked" to one another then tighten the 3/8"-24 x 2-1/2" pinch bolts and lock nuts. Slide the 1/2"-20 x 1-1/4" bolts through the female rod end joints and thread them into either end of the sway bar arms making sure to use Loctite on the threads. Mount one of the lower links into the bracket on the lower control arm using a 1/2"-20 x 2-1/4" bolt and secure it with the 1/2"-20 lock nut. Leave the bolt out of the lower link on one side at this time. The second bolt and nut will be installed after the ride height is set and the car is set on level ground. This will ensure that there is no preload on the sway bar at ride height.



Install your brake kit (purchased separately) to the hub per the instructions included with your brake kit.

NOTE: For recommended part numbers please visit our website or contact one of our tech experts.

Mock up engine and transmission and install mounts as required. At this time, the front end can be reassembled. Some fabrication will be required to mount front fenders, body supports, radiator and front bumper brackets. All accessories and other components can now be installed.

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Alignment:

The lower control arms should be level with all the weight on the car. To adjust the ride height, take the weight off the suspension and turn the threaded adjusters on the coil over shocks. Set down and measure ride height. Repeat as necessary to get the car where you want it. Once the ride height has been set, place the car back down on level ground. Adjust the free rod end on the sway bar end link so that it lines up with the bracket in the lower control arm. Keep adjusting the rod end until the remaining 1/2"- 20×2 -1/4" bolt will slide through easily. Secure it with the 1/2"-20 lock nut and tighten.

Set the alignment to the following initial settings:

Caster = 5°

Camber = Street: Negative .25° to .5° Race: Negative 1.5° to 3.0°

Toe = 0 to 1/8" Toe Out

Caster adjustments are made by changing the caster inserts. The caster inserts are identified with numbers indicating the distance of the hole from the center of the insert in 1/8" increments.

#1 = 1/8"

#2 = 1/4"

#3 = 3/8"

The inserts can be reversed to move the hole in front of or behind center for a total adjustment of 3/4" front to back.

Camber is adjusted using the included A-arm shim plates. Additional shim plates can be purchased separately if desired under Speedway Part # 917-21005. These are available in thicknesses ranging from 1/8" to 1/2".

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350-3000-56 - G-Comp X Universal Front Suspension Kit

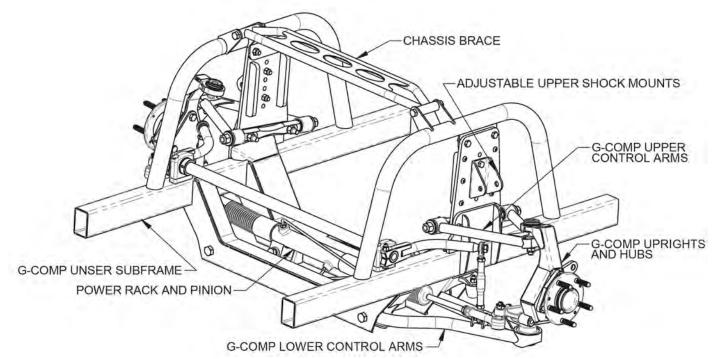
Kit Contents			
P/N	Description		
350206	G-Comp X Edition Shock Mount		
350100.2	G-Comp Camber Shim Kit		
3501100	G-Comp X Edition Spindle Upright		
3503000.1	56-58" Subframe Weldment		
3503000.5	Hardware Kit - 56		
350203	G-Comp X Edition Upper Control Arms		
350204	G-Comp X Edition Lower Control Arms		
350207	G-Comp X Hub Bolt Kit		
3503502*	G-Comp X Heavy Duty Wheel Bearing Hub Upgrade		
91035010	G-Comp Steering Arm - Pair		
91035100	G-Comp 32" Standard Sway Bar		
91035900	Sway Bar Mount Kit		
91035345	T-Bird Power Rack		
91035250	Sway Bar Arms		

* Revision Note - October 15, 2025

Kit Components List updated to reflect the new #3503502 – G-Comp X Heavy Duty Wheel Bearing Hub Upgrade, replacing #350350 – GM Genuine 85144278 C7 Corvette Front Wheel Hub & Bearing.

This kit is designed as a performance upgrade to the OEM suspension system in almost any vehicle. This installation will involve fabrication and welding to connect the new subframe weldment to the existing structure of the vehicle. As such, this should only be attempted by an experienced fabricator familiar with this type of work.

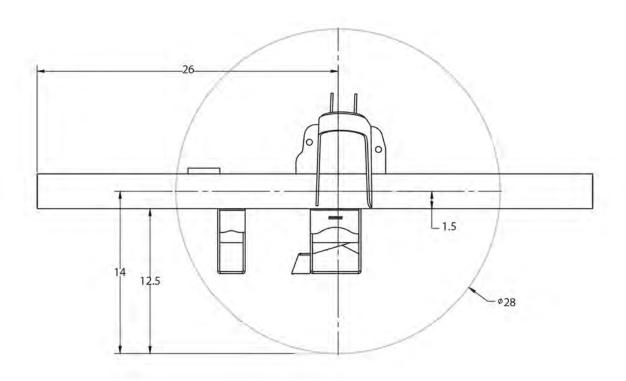
Please read and understand these instructions completely before starting this project.







To start, determine desired ride height based on the tire size you will be using. The axle centerline for this suspension is 1-1/2" above the lower surface of the frame rail at designed ride height and 26" back from the front edge of the subframe rail. NOTE: This 26" dimension will vary slightly depending on how much caster you put in the suspension - more caster will move centerline back. Based on this, calculate the frame rail height dimension. For example: (see illustration below) if the proposed tire diameter is 28", then the centerline of the tire (spindle centerline) would be 14" (28"/2) above ground level. Subtracting the 1-1/2" from the 14" leaves the lower surface of the rail at 12-1/2" above the ground. Now, substitute your desired tire diameter into this formula to calculate your frame rail height. Mock the vehicle up at your desired ride height and determine the best way to attach the subframe weldment to the existing structure of the vehicle while maintaining this relationship. In the case of a full frame car, cutting the existing frame near the firewall and fabricating a 2x3 (or similar) tube rail to attach the subframe to the existing structure is an option. Depending on the condition of the existing frame or plans for the rear suspension, it may also be easier and better to fabricate an entirely new full frame. On unibody type vehicles, the job can be a bit tougher and require a bit more engineering. It is up to the fabricator to determine the best method to use and to ensure that the completed chassis is structurally rigid enough to handle the input loads that will occur as the vehicle is driven. If you are inexperienced in this type of fabrication, it is highly recommended that you seek the assistance of a professional shop that has experience in this area.



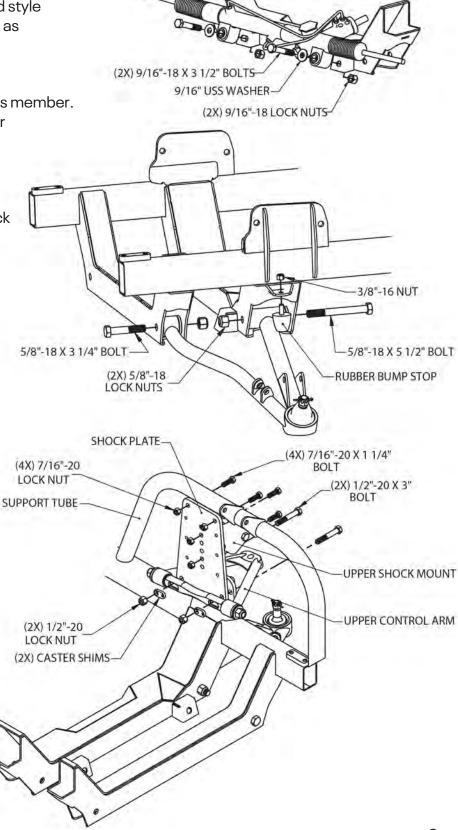
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1. Steering Rack. This G-comp front suspension kit is designed to use a narrowed thunderbird style power steering rack. Install the steering rack as shown, using the two 9/16"- $18 \times 3 \frac{1}{2}$ " bolts, washers and lock nuts.

2. Install the lower control arms into the cross member. Align the control arm bushings with the lower control arm holes in the cross-member. The front bolts, 5/8"-18 x 3-1/4", are to be installed from the front side. The rear bolts are 5/8"-18 x 5-1/2" and are to be installed from the rear. Install the 5/8"-18 lock nuts as shown. Install the lower control arm bump stops to the sub-frame using the supplied 3/8" nuts as shown.

3. Install the shock plates and upper control arms. Place the shock plate between the control arm and sub-frame and install the upper control arm by rotating the cross shaft so the caster shim pockets are facing the center of the vehicle as shown. Mount the upper control arms using the 1/2"-20 x 3" bolts and lock nuts. Install the bolts through the sub-frame, shock plate, cross shaft, and caster shims. Secure with 1/2"-20 lock nuts. Install the 7/16"-20 x 1-1/4" bolts and lock nuts into the top holes of the shock plate to secure it to the support tube. The adjustable upper shock mount can now be installed as shown using the remaining 7/16"-20 x 1-1/4" bolts and lock nuts.



please visit our website or contact one of

our tech experts.

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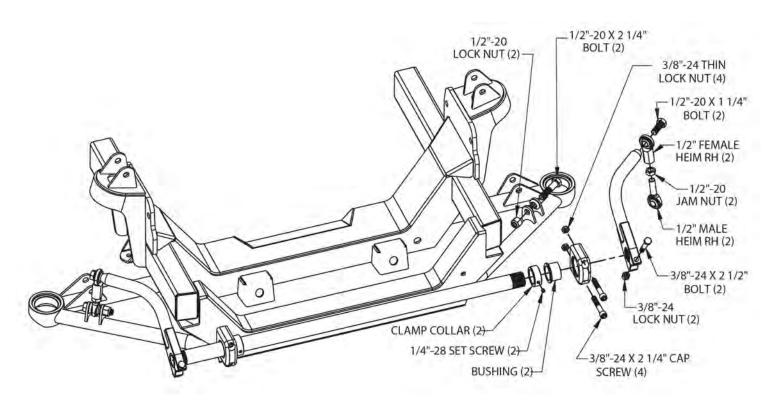


4. Install the uprights and steering arms. Install the upright onto the lower ball joint. Install and tighten the supplied castle nut. Repeat with the upper ball joint and install the cotter pins. Bolt the steering arms to the spindles using the 1/2"-20 x 1-3/4" bolts. **NOTE:** Make sure to use M12 X 75mm Loctite on the threads. 1/2-20 X 1-3/4" 5. Install the hubs. The Corvette style hubs included with this kit use metric hardware, including metric lug nuts. Use the supplied M12 x 75mm socket head bolts to secure the hubs to the uprights using loctite on threads. The fit of the hub into the upright is a close tolerance fit. It may be required to remove any paint or powder coating from the inner bore of the upright before assembly. 6. Install the outer tie rod ends and jam nuts onto the inner tie rods of the rack. Thread both tie rod ends on equally. Attach the tie rod ends to the steering arms using the castle nuts supplied with the tie rod ends. Tighten and install the cotter pins. Final alignment will be done at a later time. 7. Install the shocks. Assemble the coil over by installing the threaded adjusting collar onto the threaded shock 1/2"-20 X 3 1/4" body. Adjust the collar all the way to the end of the 1/2"-20 LOCK NUT threads. Place the spring over the shock body and install the spring cup onto the shock. Using the 1/2"-20 x 2-1/2" COIL-OVER SHOCK (NOT INCLUDED) bolts and two 3/16" wide spacers, install the shock (2X) 5/8" WIDE SPACER into the lower mount on the control arm as shown 1/2"-20 X 2 1/2" (2X) 3/16" WIDE SPACER and secure with a 1/2"-20 lock nut. Install the 1/2" - $20 \times 3 - 1/4$ " upper shock bolts and 5/8" 1/2"-20 LOCK NUTwide spacers, placing one spacer on each side of the shock bearing. Secure with a 1/2"-20 lock nut. NOTE: This kit is designed to use shocks with a 4" stroke and compressed length of 10" or a 5" stroke with a compressed length of 12". Shock ends should be 1/2" bearings with a mounting width of 1". For recommended part numbers

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8. Sway bar assembly: Press the bushings into the aluminum pillow-blocks and install the pillow-blocks to the front cross member with the bushing shoulder to the inside. Use the four 3/8"-24 x 2-1/4" socket head cap screws and secure them with the 3/8"-24 thin lock nuts. Slide the sway bar through the bushings, installing the two clamp collars to the inside of both pillow blocks. Tighten the 3/8" cap screws. Center the sway bar between the pillow blocks. Slide one clamp collar up against the bushing shoulder in the pillow block and tighten the set screw. Slide the second clamp collar up to the opposite bushing in the pillow block leaving about .075" of side clearance between the clamp collar and the bushing. Tighten the set screw. A nickel is about .075" thick and can be used as a spacer between the clamp collar and the bushing to provide the proper side clearance. Assemble the sway bar links as shown, leaving roughly 1/4" of threads showing. Slide the sway bar arms onto the splined ends of the sway bar aligning them flush with the end of the bar. Make sure they are parallel or "clocked" to one another then tighten the 3/8"-24 x 2-1/2" pinch bolts and lock nuts. Slide the 1/2"-20 x 1-1/4" bolts through the female heim joints and thread them into either end of the sway bar arms making sure to use Loctite on the threads and torque to 64 ft-lbs. Mount one of the lower links into the bracket on the lower control arm using a 1/2"-20 x 2-1/4" bolt and secure it with the 1/2"-20 lock nut. Leave the bolt out of the lower link on one side at this time. The second bolt/nut will be installed after the ride height is set and the car is setting on level ground. This will ensure that there is no preload on the sway bar at ride height.



9. Install the brake kit to the hub per the instructions included with your brake kit. **NOTE:** For recommended part numbers please visit our website or contact one of our tech experts.





10. Mock up engine and transmission and install mounts as required. At this time, the front end can be reassembled. Some fabrication will be required to mount front fenders supports, radiator and front bumper brackets. All accessories and other components can now be installed.

11. Alignment. The lower control arms should be level with all the weight on the car. To adjust the ride height, take the weight off the suspension and turn the threaded adjusters on the coil over shocks. Once the ride height has been set, place the car back down on level ground. Adjust the free heim end on the sway bar link so that it lines up with the bracket in the lower control arm. Keep adjusting the heim end until the remaining 1/2"- $20 \times 2-1/4$ " bolt will slide through easily. Secure it with the 1/2"- $20 \times 1/4$ " bolt will slide through easily.

Set the alignment to the following initial settings:

Caster = 5°

Camber = Street: Negative .25°-.5° Race: Negative 1.5°-3.0°

Toe = 0" - 1/8" Toe Out

12. Caster adjustments are made by changing the caster inserts. The caster inserts are identified with numbers indicating the distance of the hole from the center of the insert in 1/8" increments.

#1=1/8"

#2=1/4"

#3=3/8"

The inserts can be reversed to move the hole in front of or behind center for a total adjustment of 3/4".

13. Camber is adjusted using the included A-arm shim plates. Additional shim plates can be purchased separately if desired under Speedway Part # 917-21005. These are available in thicknesses ranging from 1/8" to 1/2".

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350-3000-58 - G-Comp X Universal Front Suspension Kit

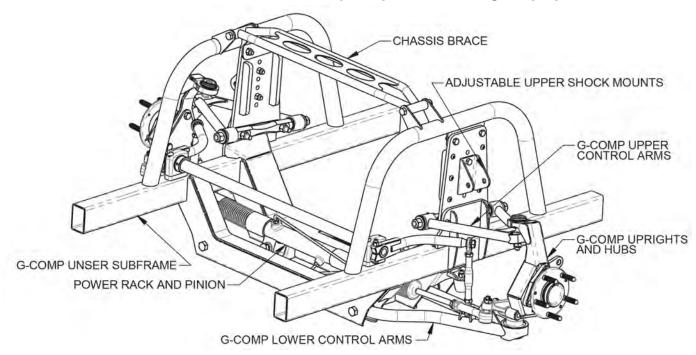
Kit Contents			
P/N	Description		
350206	G-Comp X Edition Shock Mount		
350100.2	G-Comp Camber Shim Kit		
3501100	G-Comp X Edition Spindle Upright		
3503000.1	56-58" Subframe Weldment		
3503000.6	Hardware Kit - 58		
350903	G-Comp X Edition Upper Control Arms, +1"		
350904	G-Comp X Edition Lower Control Arms, +1"		
350207	G-Comp X Hub Bolt Kit		
3503502*	G-Comp X Heavy Duty Wheel Bearing Hub Upgrade		
91035010	G-Comp Steering Arm - Pair		
91035100	G-Comp 32" Standard Sway Bar		
91035900	Sway Bar Mount Kit		
91035345	T-Bird Power Rack		
91035250	Sway Bar Arms		

* Revision Note - October 15, 2025

Kit Components List updated to reflect the new #3503502 - G-Comp X Heavy Duty Wheel Bearing Hub Upgrade, replacing #350350 - GM Genuine 85144278 C7 Corvette Front Wheel Hub & Bearing.

This kit is designed as a performance upgrade to the OEM suspension system in almost any vehicle. This installation will involve fabrication and welding to connect the new subframe weldment to the existing structure of the vehicle. As such, this should only be attempted by an experienced fabricator familiar with this type of work.

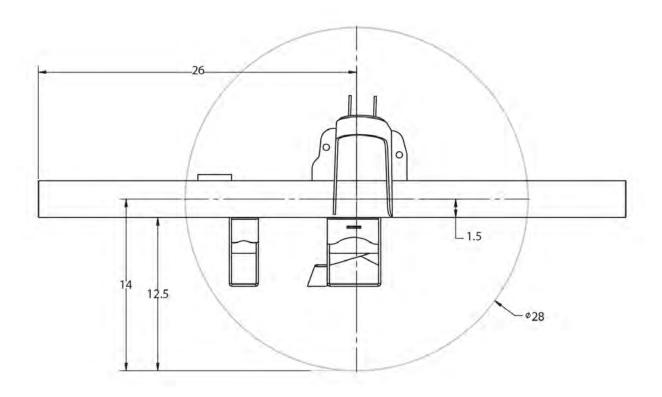
Please read and understand these instructions completely before starting this project.







To start, determine desired ride height based on the tire size you will be using. The axle centerline for this suspension is 1-1/2" above the lower surface of the frame rail at designed ride height and 26" back from the front edge of the subframe rail. NOTE: This 26" dimension will vary slightly depending on how much caster you put in the suspension - more caster will move centerline back. Based on this, calculate the frame rail height dimension. For example: (see illustration below) if the proposed tire diameter is 28", then the centerline of the tire (spindle centerline) would be 14" (28"/2) above ground level. Subtracting the 1-1/2" from the 14" leaves the lower surface of the rail at 12-1/2" above the ground. Now, substitute your desired tire diameter into this formula to calculate your frame rail height. Mock the vehicle up at your desired ride height and determine the best way to attach the subframe weldment to the existing structure of the vehicle while maintaining this relationship. In the case of a full frame car, cutting the existing frame near the firewall and fabricating a 2x3 (or similar) tube rail to attach the subframe to the existing structure is an option. Depending on the condition of the existing frame or plans for the rear suspension, it may also be easier and better to fabricate an entirely new full frame. On unibody type vehicles, the job can be a bit tougher and require a bit more engineering. It is up to the fabricator to determine the best method to use and to ensure that the completed chassis is structurally rigid enough to handle the input loads that will occur as the vehicle is driven. If you are inexperienced in this type of fabrication, it is highly recommended that you seek the assistance of a professional shop that has experience in this area.



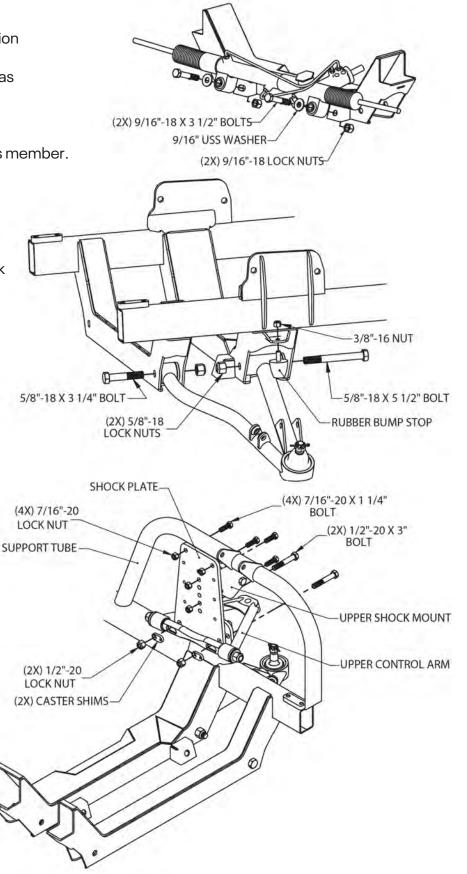
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1. Steering Rack. This G-comp front suspension kit is designed to use a thunderbird style power steering rack. Install the steering rack as shown, using the two 9/16"-18 x 3-1/2" bolts, washers and lock nuts.

2. Install the lower control arms into the cross member. Align the control arm bushings with the lower control arm holes in the cross-member. The front bolts, 5/8"-18 x 3-1/4", are to be installed from the front side. The rear bolts are 5/8"-18 x 5-1/2" and are to be installed from the rear. Install the 5/8"-18 lock nuts as shown. Install the lower control arm bump stops to the sub-frame using the supplied 3/8" nuts as shown.

3. Install the shock plates and upper control arms. Place the shock plate between the control arm and sub-frame and install the upper control arm by rotating the cross shaft so the caster shim pockets are facing the center of the vehicle as shown. Mount the upper control arms using the 1/2"-20 x 3" bolts and lock nuts. Install the bolts through the sub-frame, shock plate, cross shaft, and caster shims. Secure with 1/2"-20 lock nuts. Install the 7/16"- $20 \times 1-1/4$ " bolts and lock nuts into the top holes of the shock plate to secure it to the support tube. The adjustable upper shock mount can now be installed as shown using the remaining 7/16"-20 x 1-1/4" bolts and lock nuts.



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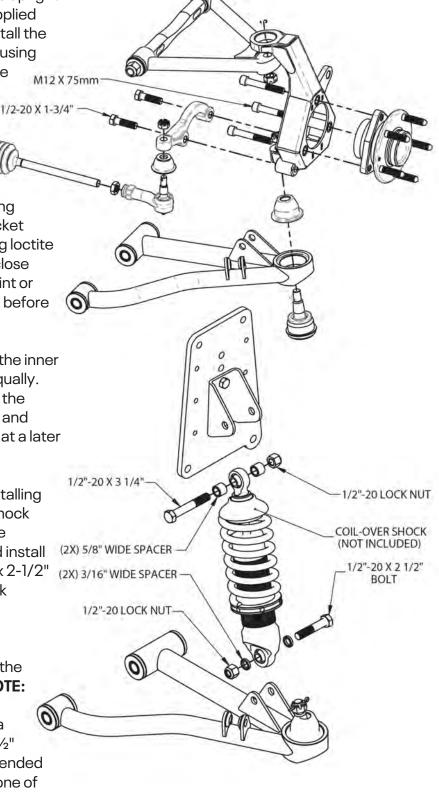


4. Install the uprights and steering arms. Install the upright onto the lower ball joint. Install and tighten the supplied castle nut. Repeat with the upper ball joint and install the cotter pins. Bolt the steering arms to the spindles using the 1/2"-20 x 1-3/4" bolts. **NOTE:** Make sure to use Loctite on the threads.

5. Install the hubs. The Corvette style hubs included with this kit use metric hardware, including metric lug nuts. Use the supplied M12 x 75mm socket head bolts to secure the hubs to the uprights using loctite on threads. The fit of the hub into the upright is a close tolerance fit. It may be required to remove any paint or powder coating from the inner bore of the upright before assembly.

6. Install the outer tie rod ends and jam nuts onto the inner tie rods of the rack. Thread both tie rod ends on equally. Attach the tie rod ends to the steering arms using the castle nuts supplied with the tie rod ends. Tighten and install the cotter pins. Final alignment will be done at a later time.

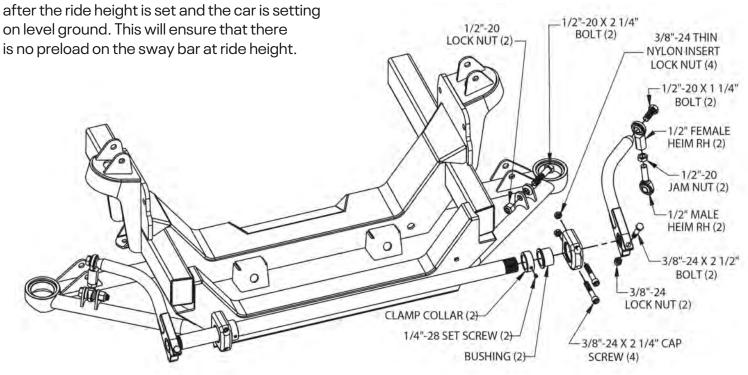
7. Install the shocks. Assemble the coil over by installing the threaded adjusting collar onto the threaded shock body. Adjust the collar all the way to the end of the threads. Place the spring over the shock body and install the spring cup onto the shock. Using the 1/2"-20 x 2-1/2" bolts and two 3/16" wide spacers, install the shock into the lower mount on the control arm as shown and secure with a 1/2"-20 lock nut. Install the 1/2"- 20 x 3-1/4" upper shock bolts and 5/8" wide spacers, placing one spacer on each side of the shock bearing. Secure with a 1/2"-20 lock nut. NOTE: This kit is designed to use shocks with a 4" stroke and compressed length of 10" or a 5" stroke with a compressed length of 12". Shock ends should be 1/2" bearings with a mounting width of 1". For recommended part numbers please visit our website or contact one of our tech experts.



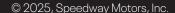
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8. Sway bar assembly: Press the bushings into the aluminum pillow-blocks and install the pillow-blocks to the front cross member with the bushing shoulder to the inside. Use the four 3/8"- 24×2 -1/4" socket head cap screws and secure them with the 3/8"-24 thin lock nuts. Slide the sway bar through the bushings, installing the two clamp collars to the inside of both pillow blocks. Tighten the 3/8" cap screws. Center the sway bar between the pillow blocks. Slide one clamp collar up against the bushing shoulder in the pillow block and tighten the set screw. Slide the second clamp collar up to the opposite bushing in the pillow block leaving about .075" of side clearance between the clamp collar and the bushing. Tighten the set screw. A nickel is about .075" thick and can be used as a spacer between the clamp collar and the bushing to provide the proper side clearance. Assemble the sway bar links as shown, leaving roughly $\frac{1}{4}$ " of threads showing. Slide the sway bar arms onto the splined ends of the sway bar aligning them flush with the end of the bar. Make sure they are parallel or "clocked" to one another then tighten the 3/8"- 24×2 -1/2" pinch bolts and lock nuts. Slide the 1/2"- 20×1 -1/4" bolts through the female heim joints and thread them into either end of the sway bar arms making sure to use Loctite on the threads and torque to 64 ft-lbs. Mount one of the lower links into the bracket on the lower control arm using a 1/2"- 20×2 -1/4" bolt and secure it with the 1/2"-20 lock nut. Leave the bolt out of the lower link on one side at this time. The second bolt/nut will be installed



9. Install the brake kit to the hub per the instructions included with your brake kit. **NOTE:** For recommended part numbers please visit our website or contact one of our tech experts.





10. Mock up engine and transmission and install mounts as required. At this time, the front end can be reassembled. Some fabrication will be required to mount front fenders supports, radiator and front bumper brackets. All accessories and other components can now be installed.

11. Alignment. The lower control arms should be level with all the weight on the car. To adjust the ride height, take the weight off the suspension and turn the threaded adjusters on the coil over shocks. Once the ride height has been set, place the car back down on level ground. Adjust the free heim end on the sway bar link so that it lines up with the bracket in the lower control arm. Keep adjusting the heim end until the remaining 1/2"-20 x 2-1/4" bolt will slide through easily. Secure it with the 1/2"-20 lock nut and tighten.

Set the alignment to the following initial settings:

Caster = 5°

Camber = Street: Negative .25°-.5° Race: Negative 1.5°-3.0°

Toe = 0" - 1/8" Toe Out

12. Caster adjustments are made by changing the caster inserts. The caster inserts are identified with numbers indicating the distance of the hole from the center of the insert in 1/8" increments.

#1=1/8"

#2=1/4"

#3=3/8"

The inserts can be reversed to move the hole in front of or behind center for a total adjustment of 3/4".

13. Camber is adjusted using the included A-arm shim plates. Additional shim plates can be purchased separately if desired under Speedway Part # 917-21005. These are available in thicknesses ranging from 1/8" to 1/2".

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350-3000-60 - G-Comp X Universal Front Suspension Kit

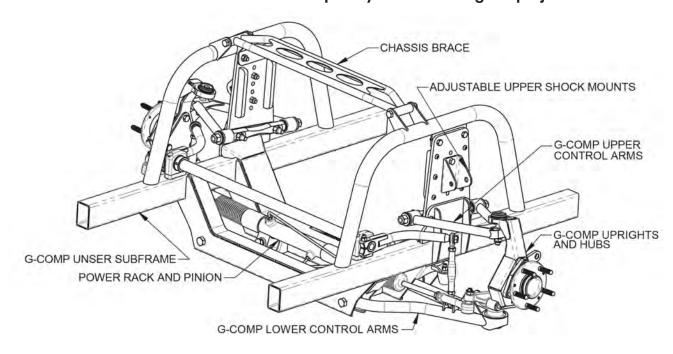
Kit Contents			
P/N	Description		
350206	G-Comp X Edition Shock Mount		
350100.2	G-Comp Camber Shim Kit		
3501100	G-Comp X Edition Spindle Upright		
3503000.2	60-62" Subframe Weldment		
3503000.7	Hardware Kit - 60"		
350203	G-Comp X Edition Upper Control Arms		
350204	G-Comp X Edition Lower Control Arms		
350207	G-Comp X Hub Bolt Kit		
3503502*	G-Comp X Heavy Duty Wheel Bearing Hub Upgrade		
91035011	G-Comp Steering Arm - Pair		
350501	G-Comp 34" Standard Sway Bar		
350500.2	Sway Bar Kit		
91035341	T-Bird Power Rack		
350602	Chassis Brace		

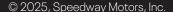
* Revision Note - October 15, 2025

Kit Components List updated to reflect the new #3503502 – G-Comp X Heavy Duty Wheel Bearing Hub Upgrade, replacing #350350 – GM Genuine 85144278 C7 Corvette Front Wheel Hub & Bearing.

This kit is designed as a performance upgrade to the OEM suspension system in almost any vehicle. This installation will involve fabrication and welding to connect the new subframe weldment to the existing structure of the vehicle. As such, this should only be attempted by an experienced fabricator familiar with this type of work.

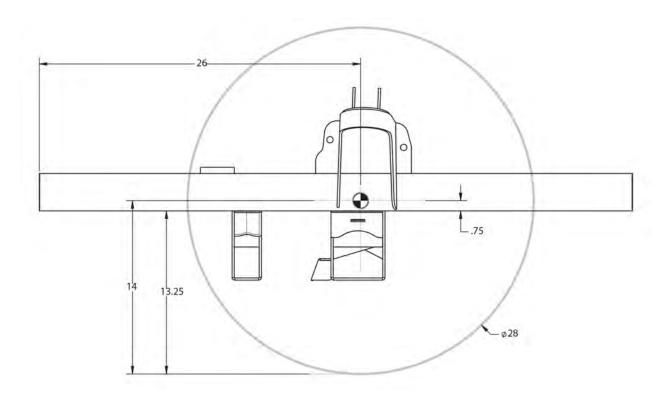
Please read and understand these instructions completely before starting this project.







To start, determine desired ride height based on the tire size you will be using. The axle centerline for this suspension is 3/4" above the lower surface of the frame rail at designed ride height and 26" back from the front edge of the subframe rail. NOTE: This 26" dimension will vary slightly depending on how much caster you put in the suspension - more caster will move centerline back. Based on this, calculate the frame rail height dimension. For example: (see illustration below) if the proposed tire diameter is 28", then the centerline of the tire (spindle centerline) would be 14" (28"/2) above ground level. Subtracting the 3/4" from the 14" leaves the lower surface of the rail at 13-1/4" above the ground. Now, substitute your desired tire diameter into this formula to calculate your frame rail height. Mock the vehicle up at your desired ride height and determine the best way to attach the subframe weldment to the existing structure of the vehicle while maintaining this relationship. In the case of a full frame car, cutting the existing frame near the firewall and fabricating a 2x3 (or similar) tube rail to attach the subframe to the existing structure is an option. Depending on the condition of the existing frame or plans for the rear suspension, it may also be easier and better to fabricate an entirely new full frame. On unibody type vehicles, the job can be a bit tougher and require a bit more engineering. It is up to the fabricator to determine the best method to use and to ensure that the completed chassis is structurally rigid enough to handle the input loads that will occur as the vehicle is driven. If you are inexperienced in this type of fabrication, it is highly recommended that you seek the assistance of a professional shop that has experience in this area.



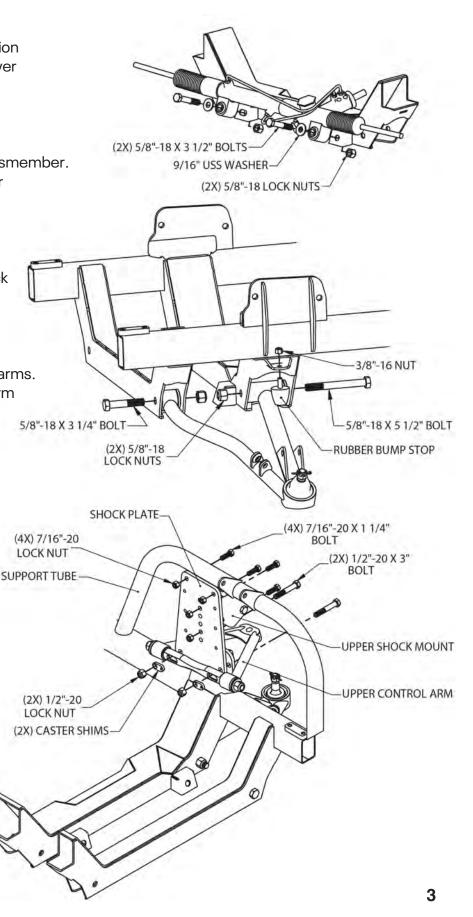
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1. Steering Rack. This G-comp front suspension kit is designed to use a thunderbird style power steering rack. Install the steering rack as shown, using the two 5/8"-18 x 3-1/2" bolts, washers and lock nuts.

2. Install the lower control arms into the crossmember. Align the control arm bushings with the lower control arm holes in the cross-member. The front bolts, 5/8"-18 x 3-1/4", are to be installed from the front side. The rear bolts are 5/8"-18 x 5-1/2" and are to be installed from the rear. Install the 5/8"-18 lock nuts as shown. Install the lower control arm bump stops to the sub-frame using the supplied 3/8" nuts as shown.

3. Install the shock plates and upper control arms. Place the shock plate between the control arm and sub-frame and install the upper control arm by rotating the cross shaft so the caster shim pockets are facing the center of the vehicle as shown. Mount the upper control arms using the 1/2"-20 x 3" bolts and lock nuts. Install the bolts through the sub-frame, shock plate, cross shaft, and caster shims. Secure with 1/2"-20 lock nuts. Install the 7/16"- $20 \times 1-1/4$ " bolts and lock nuts into the top holes of the shock plate to secure it to the support tube. The adjustable upper shock mount can now be installed as shown using the remaining 7/16"-20 x 1-1/4" bolts and lock nuts.



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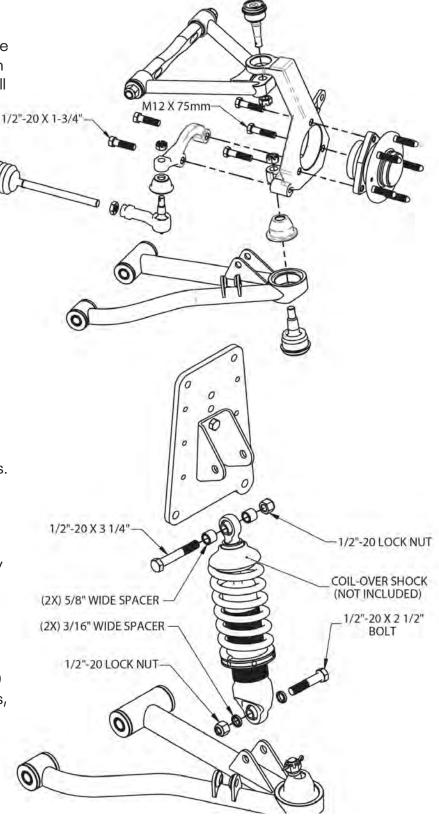
4. Install the uprights and steering arms. Install the upright onto the lower ball joint. Install and tighten the supplied castle nut. Repeat with the upper ball joint and install the cotter pins. Bolt the steering arms to the spindles using the 1/2"-20 x 1-3/4"
bolts. **NOTE:** Make sure to use

Loctite on the threads.

5. Install the hubs. The Corvette style hubs included with this kit use metric hardware, including metric lug nuts. Use the supplied M12 x 75mm socket head bolts to secure the hubs to the uprights using loctite on threads. The fit of the hub into the upright is a close tolerance fit. It may be required to remove any paint or powder coating from the inner bore of the upright before assembly.

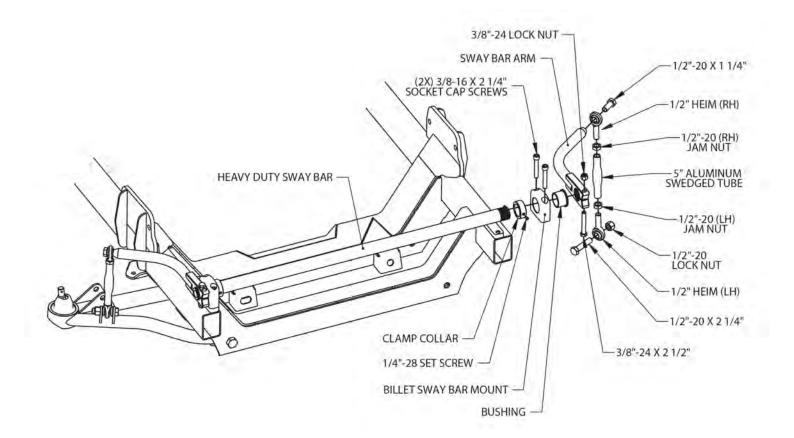
6. Install the outer tie rod ends and jam nuts onto the inner tie rods of the rack. Thread both tie rod ends on equally. Attach the tie rod ends to the steering arms using the castle nuts supplied with the tie rod ends. Tighten and install the cotter pins. Final alignment will be done at a later time.

7. Install the shocks. Assemble the coil over by installing the threaded adjusting collar onto the threaded shock body. Adjust the collar all the way to the end of the threads. Place the spring over the shock body and install the spring cup onto the shock. Using the 1/2"-20 x 2-1/2" bolts and two 3/16" wide spacers, install the shock into the lower mount on the control arm as shown and secure with a 1/2"-20 lock nut. Install the 1/2"-20 x 3-1/4" upper shock bolts and 5/8" wide spacers, placing one spacer on each side of the shock bearing. Secure with a 1/2"-20 lock nut. **NOTE:** This kit is designed to use shocks with a 4" stroke and compressed length of 10" or a 5" stroke with a compressed length of 12". Shock ends should be ½" bearings with a mounting width of 1". For recommended part numbers please visit our website or contact one of our tech experts.



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- 8. Sway bar assembly: Press the bushings into the aluminum pillow blocks and install the pillow blocks to the front crossmember with the bushing shoulder to the inside. Use the four 3/8"-16 x 2-1/4" socket head cap screws to secure the pillow block to the subframe. Before fully tightening the bolts, slide the sway bar through the bushings, installing the two clamp collars to the inside of both pillow blocks. Now, tighten the 3/8" socket cap screws. Center the sway bar between the pillow blocks. Slide one clamp collar up against the bushing shoulder in the pillow block and tighten the set screw. Slide the second clamp collar up to the opposite bushing in the pillow block leaving about .075" of side clearance between the clamp collar and the bushing. Tighten the set screw. NOTE: A nickel is about .075" thick and can be used as a spacer between the clamp collar and the bushing to provide the proper side clearance. Slide the sway bar arms onto the splined ends of the sway bar aligning them flush with the end of the bar. Make sure they are parallel or "clocked" to one another then tighten the 3/8"-24 x 2-1/2" pinch bolts and lock nuts. Assemble the sway bar links as shown, leaving roughly 1/4" of threads showing on either heim joint. Use the 1/2"-20 x 1-1/4" bolts to secure the sway bar link to the sway bar arm. Mount one of the lower links into the bracket on the lower control arm using a 1/2"-20 x 2-1/4" bolt and secure it with the 1/2"-20 lock nut. Leave the bolt out of the lower link on one side at this time. The second bolt/nut will be installed after the ride height is set and the car is setting on level ground. This will ensure that there is no preload on the sway bar at ride height.
- **9.** Install the brake kit to the spindle per the instructions included with your brake kit. **NOTE:** For recommended part numbers please visit our website or contact one of our tech experts.





10. Mock up engine and transmission and install mounts as required. At this time, the front end can be reassembled. Some fabrication will be required to mount front fenders supports, radiator and front bumper brackets. All accessories and other components can now be installed.

11. Alignment. The lower control arms should be level with all the weight on the car. To adjust the ride height, take the weight off the suspension and turn the threaded adjusters on the coil over shocks. Once the ride height has been set, place the car back down on level ground. Adjust the free heim end on the sway bar link so that it lines up with the bracket in the lower control arm. Keep adjusting the heim end until the remaining 1/2"-20 x 2-1/4" bolt will slide through easily. Secure it with the 1/2"-20 lock nut and tighten.

Set the alignment to the following initial settings:

Caster = 5°

Camber = Street: Negative .25°-.5° Race: Negative 1.5°-3.0°

Toe = 0" - 1/8" Toe Out

12. Caster adjustments are made by changing the caster inserts. The caster inserts are identified with numbers indicating the distance of the hole from the center of the insert in 1/8" increments.

#1=1/8"

#2=1/4"

#3=3/8"

The inserts can be reversed to move the hole in front of or behind center for a total adjustment of 3/4".

13. Camber is adjusted using the included A-arm shim plates. Additional shim plates can be purchased separately if desired under Speedway Part # 917-21005. These are available in thicknesses ranging from 1/8" to 1/2".

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350-3000-62 - G-Comp X Universal Front Suspension Kit

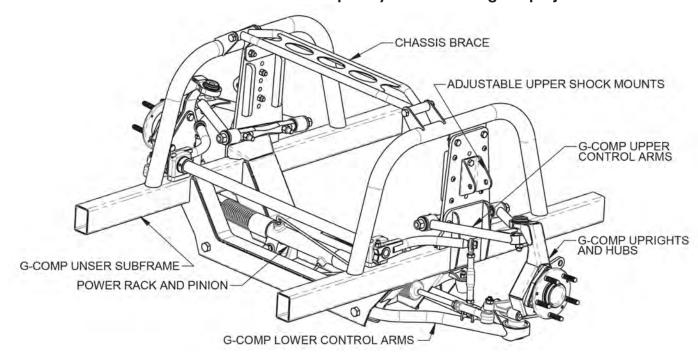
Kit Contents			
P/N	Description		
350206	G-Comp X Edition Shock Mount		
350100.2	G-Comp Camber Shim Kit		
3501100	G-Comp X Edition Spindle Upright		
3503000.2	60-62" Subframe Weldment		
3503000.8	Hardware Kit - 62"		
350903	G-Comp X Edition Upper Control Arms, +1"		
350904	G-Comp X Edition Lower Control Arms, +1"		
350207	G-Comp X Hub Bolt Kit		
3503502*	G-Comp X Heavy Duty Wheel Bearing Hub Upgrade		
91035011	G-Comp Steering Arm - Pair		
350501	G-Comp 34" Standard Sway Bar		
350500.2	Sway Bar Kit		
91035341	T-Bird Power Rack		
350602	Chassis Brace		

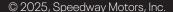
* Revision Note - October 15, 2025

Kit Components List updated to reflect the new #3503502 - G-Comp X Heavy Duty Wheel Bearing Hub Upgrade, replacing #350350 - GM Genuine 85144278 C7 Corvette Front Wheel Hub & Bearing.

This kit is designed as a performance upgrade to the OEM suspension system in almost any vehicle. This installation will involve fabrication and welding to connect the new subframe weldment to the existing structure of the vehicle. As such, this should only be attempted by an experienced fabricator familiar with this type of work.

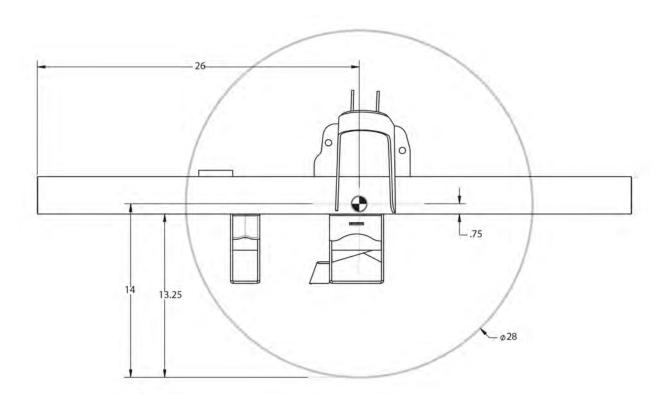
Please read and understand these instructions completely before starting this project.







To start, determine desired ride height based on the tire size you will be using. The axle centerline for this suspension is 3/4" above the lower surface of the frame rail at designed ride height and 26" back from the front edge of the subframe rail. NOTE: This 26" dimension will vary slightly depending on how much caster you put in the suspension - more caster will move centerline back. Based on this, calculate the frame rail height dimension. For example: (see illustration below) if the proposed tire diameter is 28", then the centerline of the tire (spindle centerline) would be 14" (28"/2) above ground level. Subtracting the 3/4" from the 14" leaves the lower surface of the rail at 13-1/4" above the ground. Now, substitute your desired tire diameter into this formula to calculate your frame rail height. Mock the vehicle up at your desired ride height and determine the best way to attach the subframe weldment to the existing structure of the vehicle while maintaining this relationship. In the case of a full frame car, cutting the existing frame near the firewall and fabricating a 2x3 (or similar) tube rail to attach the subframe to the existing structure is an option. Depending on the condition of the existing frame or plans for the rear suspension, it may also be easier and better to fabricate an entirely new full frame. On unibody type vehicles, the job can be a bit tougher and require a bit more engineering. It is up to the fabricator to determine the best method to use and to ensure that the completed chassis is structurally rigid enough to handle the input loads that will occur as the vehicle is driven. If you are inexperienced in this type of fabrication, it is highly recommended that you seek the assistance of a professional shop that has experience in this area.



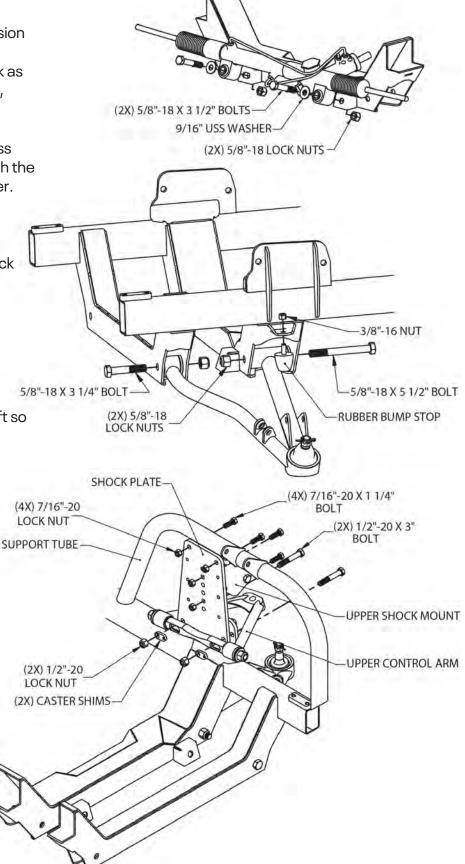
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1. Steering Rack. This G-comp front suspension kit is designed to use a thunderbird style power steering rack. Install the steering rack as shown, using the two 5/8"-18 x 3-1/2" bolts, washers and lock nuts.

2. Install the lower control arms into the cross member. Align the control arm bushings with the lower control arm holes in the cross-member. The front bolts, 5/8"-18 x 3-1/4", are to be installed from the front side. The rear bolts are 5/8"-18 x 5-1/2" and are to be installed from the rear. Install the 5/8"-18 lock nuts as shown. Install the lower control arm bump stops to the sub-frame using the supplied 3/8" nuts as shown.

3. Install the shock plates and upper control arms. Place the shock plate between the control arm and sub-frame and install the upper control arm by rotating the cross shaft so the caster shim pockets are facing the center of the vehicle as shown. Mount the upper control arms using the 1/2"-20 x 3" bolts and lock nuts. Install the bolts through the sub-frame, shock plate, cross shaft, and caster shims. Secure with 1/2"-20 lock nuts. Install the 7/16"- $20 \times 1-1/4$ " bolts and lock nuts into the top holes of the shock plate to secure it to the support tube. The adjustable upper shock mount can now be installed as shown using the remaining 7/16"-20 x 1-1/4" bolts and lock nuts.



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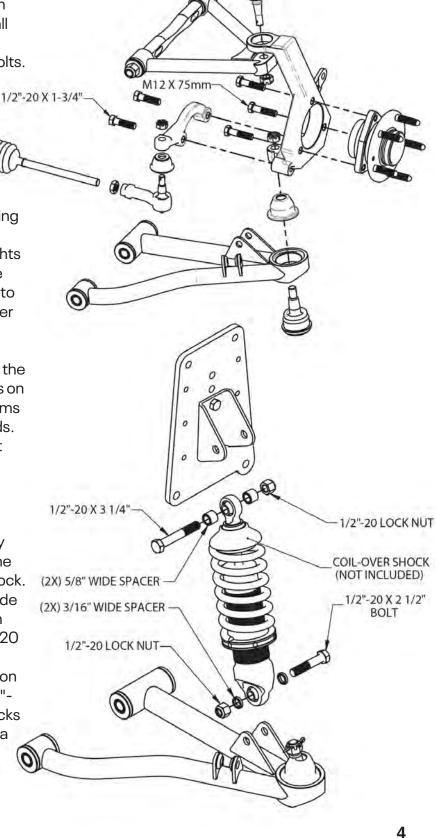
4. Install the uprights and steering arms. Install the upright onto the lower ball joint. Install and tighten the supplied castle nut. Repeat with the upper ball joint and install the cotter pins. Bolt the steering arms to the spindles using the 1/2"-20 x 1-3/4" bolts.

NOTE: Make sure to use Loctite on the threads.

5. Install the hubs. The Corvette style hubs included with this kit use metric hardware, including metric lug nuts. Use the supplied M12 x 75mm socket head bolts to secure the hubs to the uprights using loctite on threads. The fit of the hub into the upright is a close tolerance fit. It may be required to remove any paint or powder coating from the inner bore of the upright before assembly.

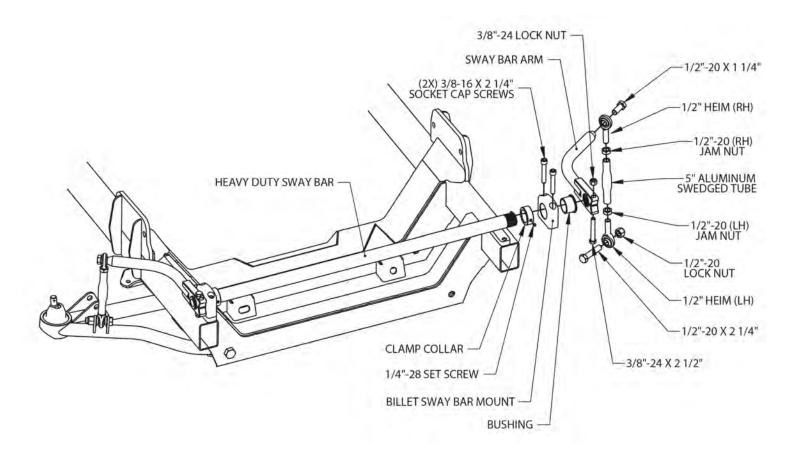
6. Install the outer tie rod ends and jam nuts onto the inner tie rods of the rack. Thread both tie rod ends on equally. Attach the tie rod ends to the steering arms using the castle nuts supplied with the tie rod ends. Tighten and install the cotter pins. Final alignment will be done at a later time.

7. Install the shocks. Assemble the coil over by installing the threaded adjusting collar onto the threaded shock body. Adjust the collar all the way to the end of the threads. Place the spring over the shock body and install the spring cup onto the shock. Using the 1/2"-20 x 2-1/2" bolts and two 3/16" wide spacers, install the shock into the lower mount on the control arm as shown and secure with a 1/2"-20 lock nut. Install the 1/2"- 20 x 3-1/4" upper shock bolts and 5/8" wide spacers, placing one spacer on each side of the shock bearing. Secure with a 1/2"-20 lock nut. **NOTE:** This kit is designed to use shocks with a 4" stroke and compressed length of 10" or a 5" stroke with a compressed length of 12". Shock ends should be 1/2" bearings with a mounting width of 1". For recommended part numbers please visit our website or contact one of our tech experts.



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- 8. Sway bar assembly: Press the bushings into the aluminum pillow blocks and install the pillow blocks to the front crossmember with the bushing shoulder to the inside. Use the four 3/8"-16 x 2-1/4" socket head cap screws to secure the pillow block to the subframe. Before fully tightening the bolts, slide the sway bar through the bushings, installing the two clamp collars to the inside of both pillow blocks. Now, tighten the 3/8" socket cap screws. Center the sway bar between the pillow blocks. Slide one clamp collar up against the bushing shoulder in the pillow block and tighten the set screw. Slide the second clamp collar up to the opposite bushing in the pillow block leaving about .075" of side clearance between the clamp collar and the bushing. Tighten the set screw. **NOTE:** A nickel is about .075" thick and can be used as a spacer between the clamp collar and the bushing to provide the proper side clearance. Slide the sway bar arms onto the splined ends of the sway bar aligning them flush with the end of the bar. Make sure they are parallel or "clocked" to one another then tighten the 3/8"-24 x 2-1/2" pinch bolts and lock nuts. Assemble the sway bar links as shown, leaving roughly 1/4" of threads showing on either heim joint. Use the 1/2"-20 x 1-1/4" bolts to secure the sway bar link to the sway bar arm. Mount one of the lower links into the bracket on the lower control arm using a 1/2"-20 x 2-1/4" bolt and secure it with the 1/2"-20 lock nut. Leave the bolt out of the lower link on one side at this time. The second bolt/nut will be installed after the ride height is set and the car is setting on level ground. This will ensure that there is no preload on the sway bar at ride height.
- **9.** Install the brake kit to the spindle per the instructions included with your brake kit. **NOTE:** For recommended part numbers please visit our website or contact one of our tech experts.





10. Mock up engine and transmission and install mounts as required. At this time, the front end can be reassembled. Some fabrication will be required to mount front fenders supports, radiator and front bumper brackets. All accessories and other components can now be installed.

11. Alignment. The lower control arms should be level with all the weight on the car. To adjust the ride height, take the weight off the suspension and turn the threaded adjusters on the coil over shocks. Once the ride height has been set, place the car back down on level ground. Adjust the free heim end on the sway bar link so that it lines up with the bracket in the lower control arm. Keep adjusting the heim end until the remaining 1/2"-20 x 2-1/4" bolt will slide through easily. Secure it with the 1/2"-20 lock nut and tighten.

Set the alignment to the following initial settings:

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Camber = Street: Negative .25°-.5° Race: Negative 1.5°-3.0°

Toe = 0" - 1/8" Toe Out

12. Caster adjustments are made by changing the caster inserts. The caster inserts are identified with numbers indicating the distance of the hole from the center of the insert in 1/8" increments.

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