



350 S. St. Charles St. Jasper, In. 47546

Ph. 812.482.2932 Fax 812.634.6632

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Part # 11360399

73-87 C-10 Level 3 Complete Air Suspension System

Front Components:

1	11330999	Front CoolRide Kit
1	11360611	Front Shock Kit – TQ Series
1	11361499	Front Lower StrongArms
1	11363699	Front Upper StrongArms
1	11369100	Front MuscleBar Sway Bar w/ PosiLinks
1	11369300	2” Drop Spindles w/ Caliper Brackets
1	11359400	Billet Tie Rod Adjusters

Rear Components:

1	11366799	Rear AirBar – Bolt-on 4 Link
1	11360811	Rear Shock Kit – TQ Series

Compressor System:

1	30334100	5 gallon LevelPro Compressor Kit
1	30400034	LevelPro Upgrade - 4 External Height Sensors
1	31008500	Two key fob remotes with antenna



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Part # 11330999
63-87 C10 Front CoolRide Kit
For Use w/ Lower StrongArms

Components:

2	90006873	Front air springs – 224c
2	90000060	Upper air spring plate
2	90001083	Medium bump stop – 1.5" tall
2	90000472	Aluminum bump stop extension
1	90000726	Driver side bump stop plate
1	90000727	Passenger side bump stop plate

Hardware:

8	99371004	3/8" x 1 1/4" USS bolt	Upper air spring plate to frame
4	99371001	3/8" x 3/4" USS bolt	Air spring to lower control arm/ bump stop
4	99373005	3/8" lock washer	Air spring to lower control arm/ bump stop
12	99372002	3/8" nyloc nuts	
24	99373003	3/8" flat washers	

COOL RiDE[®]

by Air Ride Technologies

Installation Instructions



1. Hold the upper plate to the cross member as shown in the picture to the left and clamp to frame. Using the plate as a template drill four 3/8" holes in the cross member.



2. Apply thread sealant to the air fitting and thread into the air spring.

3. Remove the upper plate from the frame and place onto the studs on the top of the air spring. The holes are lettered; **slide the plate to position C** moving the air spring to the front of the vehicle. Secure with 3/8" flat washers and Nylok nuts.

Note: Airline must be routed at this time.



Note: It is acceptable to let the suspension bottom on the air spring. However, if your tire hits the inner fender well before the air spring bottoms out, this bump stop must be installed.

4. The bump stop plate will bolt to the outer two holes of the upper air spring plate. It will hang over the front side of the cross member. It is acceptable to trim the bump stop to achieve maximum drop without the tire rubbing the inner fender well.

5. The break line bracket may need to be tweaked to clear the hose.



6. Fasten the air spring to the lower control arm using a 3/8" x 3/4" bolt, lock washer and flat washer.

7. Check air spring clearance through full suspension travel. **Allowing the air spring to rub will result in failure and is not a warrantable situation.**

8. Ride height on this air spring is approximately 5" tall. The shock absorber should be at about 50-60% travel at this point. Depending on vehicle weight this will usually occur around 80-100 psi.



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Part # 11360611

73-87 C-10 Master TQ Series Front Shock Kit

For Use w/ Lower StrongArms

Shock Assembly:

2	24339999	3.5" stroke TQ Series shock
2	90009988	Short Stud top – 2"
2	90001994	.625" bearing
4	90001995	Snap ring for bearing

Components:

2	90002312	Stud top base
2	90001902	Aluminum cap for Delrin ball
2	90001903	Upper Delrin ball half
2	90001904	Lower Delrin ball half
2	90002329	Cantilever pin w/ hardware
2	90000471	Cantilever pin spacer
4	90002067	Aluminum bearing spacer - .625" I.D.
1	90002303	Driver side upper shock bracket – bolt-on
1	90002304	Passenger side upper shock bracket – bolt-on
4	90002221	Reservoir mount
1	85000003	4mm Allen wrench

Hardware:

8	99371004	3/8" x 1 1/4" USS bolt	Upper shock bracket to frame
8	99372002	3/8" USS Nylok nut	Upper shock bracket to frame
16	99373003	3/8" SAE flat washer	Upper shock bracket to frame
2	99562003	9/16" SAE Nylok jam nut	Stud top hardware
12	99050000	4mm x .5" socket head cap screw	Reservoir mounts

Installation Instructions



1. Place the new upper shock mount against the frame, the tab in the front of the bracket will slide into the factory shock stud hole. Position the bracket so that the bottom of the bracket is parallel to the bottom of the frame. Using the bracket as a template, mark and drill four 3/8" holes in the frame rail. Secure the bracket to the frame using four 3/8" x 1 1/4" bolts, Nylok nuts and flat washers.

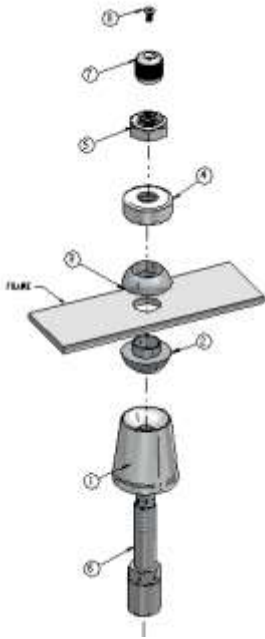


2. Attach the shock to the upper mount. See diagram on following page.



3. Attach the shock to the lower control arm using the cantilever pin supplied. See diagram on following page.

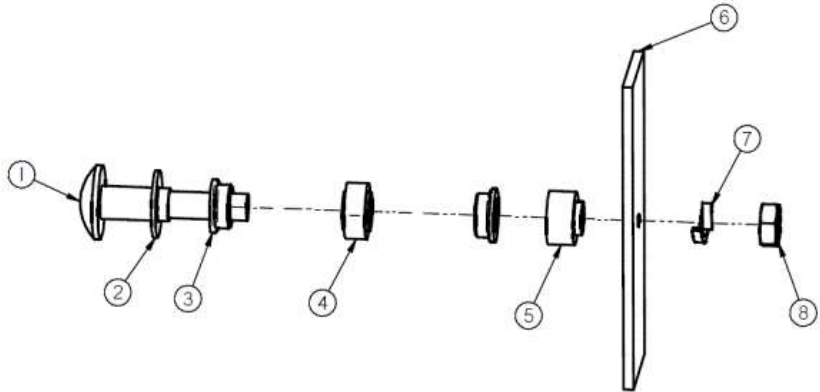
Upper Shock Stud Assembly



1. Delrin Stud top base
2. Delrin Ball Lower Half
3. Delrin Ball Upper Half
4. Delrin Ball Aluminum Top Cap
5. 9/16-18 Nylok
6. Threaded Stud (screwed on to shock)
7. Adjuster Knob (SA Only)
8. Screw (SA Only)

Cantilever Pin Assembly

1. Cantilever Pin
2. 5/8" SAE Washer
3. Aluminum Bearing Spacer
4. .625" Bearing
5. Aluminum Bearing Spacer
6. Control arm tab
7. 1/2" Lock Washer
8. 1/2" SAE Nut



Shock adjustment 101- Single Adjustable

Rebound Adjustment:

How to adjust your new shocks.

The rebound adjustment knob is located on the top of the shock absorber protruding from the eyelet.

You must first begin at the ZERO setting, then set the shock to a soft setting of 20.



-Begin with the shocks adjusted to the ZERO rebound position (full stiff). Do this by rotating the rebound adjuster knob clockwise until it stops.



-Now turn the rebound adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use).

Take the vehicle for a test drive.



-if you are satisfied with the ride quality, do not do anything, you are set!



-if the ride quality is too soft increase the damping effect by rotating the rebound knob clock wise 3 clicks. CONTINUE ON NEXT PAGE.

Take the vehicle for another test drive.



-if the vehicle is too soft increase the damping effect by rotating the rebound knob clock wise 3 additional clicks.

-If the vehicle is too stiff rotate the rebound adjustment knob counter clock wise 2 clicks and you are set!

Take the vehicle for another test drive and repeat the above steps until the ride quality is satisfactory.

Note:

One end of the vehicle will likely reach the desired setting before the other end. If this happens stop adjusting the satisfied end and keep adjusting the unsatisfied end until the overall ride quality is satisfactory.

Shock adjustment 101- Triple Adjustable

Triple Adjustable:

Step One: High Speed Compression



-High speed compression adjustments are used in both street driving and track tuning.

-Begin with the shocks adjusted to the ZERO high speed compression position (full stiff). Do this by rotating the high speed compression adjuster (large knob) clockwise until it stops.

-Now turn the high speed compression adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use. For typical street driving the high speed compression adjuster will remain at setting 20.

Step Two: Low Speed Compression

Low speed compression adjustment is what is typically felt during street driving.



-Begin with the shocks adjusted to the ZERO low speed compression position (full stiff). Do this by rotating the low speed compression adjuster (small knob) clockwise until it stops.

-Now turn the low speed compression adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use). Take the vehicle for a test drive.

-if you are satisfied with the ride quality, do not do anything, you are set!

-if the ride quality is too soft increase the damping effect by rotating the low speed compression knob clock wise 3 clicks.

Take the vehicle for another test drive.



-if the vehicle is too soft increase the damping effect by rotating the low speed compression knob clock wise 3 additional clicks.

-If the vehicle is too stiff rotate the low speed compression adjustment knob counter clock wise 2 clicks and you are set!

Take the vehicle for another test drive and repeat the above steps until the ride quality is satisfactory.

Step 3:

Adjust rebound according to Single Adjustable instructions.

Note:

One end of the vehicle will likely reach the desired setting before the other end. If this happens stop adjusting the satisfied end and keep adjusting the unsatisfied end until the overall ride quality is satisfactory.



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Part # 11361499
73-87 C-10 Front Lower StrongArms
For Use w/ CoolRide

Components:

1	90000502	Driver side lower arm
1	90000503	Passenger side lower arm
1	90000909	Lower ball joint
2	90000521	Cross shaft
4	90000915	Lower control arm bushing
4	99753001	Washer, 3/4" (B) x 2 1/2" (D) x 1/8" (T), Zinc Plated
4	99752005	3/4" SAE jam nut

STRONG ARMS™

by Air Ride Technologies

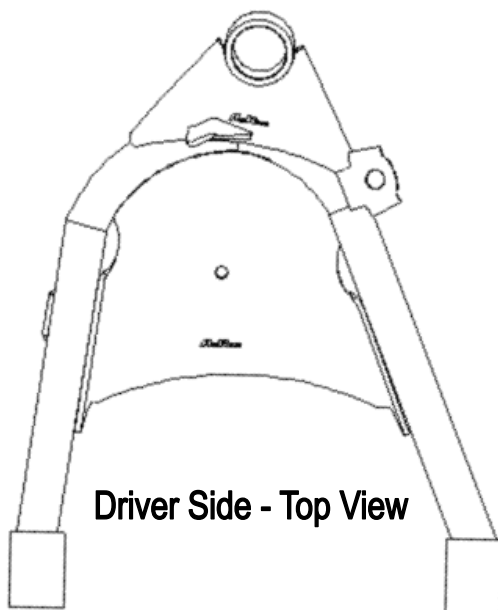
Installation Instructions

Note: These control arms were designed for use w/ the RideTech bolt-on shock kit & MuscleBar swaybar. The factory shocks and sway bar will not work.

Note: These Strong Arms are used on trucks of model years 1963-1987. Throughout these years 3 different ball joints used; some are very similar. Be sure to use the correct ball joint for the year spindle you are using.



1. Bolt the lower Strong Arm to the frame using the oem fasteners. Make sure to align the dowel in the frame with the hole in the cross shaft.
2. Slide the boot over the ball joint then fasten the lower ball joint to the spindle using the new castle nut and cotter pin supplied.
3. Fasten the air spring to the lower control arm using a 3/8" x 3/4" bolt supplied w/ the CoolRide kit.
4. Thread the grease zerk into the ball joint and grease.
5. With the suspension at **mid travel**, the cross shaft nuts can be tightened.
6. The truck must be realigned after installation.



Driver Side - Top View



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Part #11363699
73-87 C-10 Front Upper StrongArms

Components:

- | | | |
|---|----------|--------------------------------------|
| 1 | 90000508 | Driver side upper arm |
| 1 | 90000509 | Passenger side upper arm |
| 2 | 90000721 | Cross shaft |
| 2 | 90000920 | Cross shaft kit – 2 bushings per kit |
| 2 | 90000910 | Upper ball joint |

Hardware:

- | | | | |
|---|----------|--------------------------------|-------------|
| 2 | 99753002 | 3/4" flat washer (2" diameter) | Cross shaft |
| 2 | 99752005 | 3/4" SAE locking nut | Cross shaft |

STRONG ARMS™

by Air Ride Technologies

Installation Instructions



1. Drop the ball joint down through the upper control arm plate. Fasten to the arm w/ the hardware supplied.
2. Fasten control arm to frame using the stock hardware. Reuse the alignment shims; however the truck must be realigned after installation.
3. Slide the ball joint boot over the stud, then insert stud through spindle. Secure w/ new castle nut and cotter pin supplied.
4. **With the suspension at mid travel**, the upper cross shaft nuts can be tightened.
5. Install Zerk fitting and grease ball joint.



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Part # 11369100
63-87 C-10 Front MuscleBar
(For use with StrongArms only)

Components:

- | | | |
|---|----------|-----------------------------------|
| 1 | 90000664 | Sway bar (includes the following) |
| | 2 | Polyurethane frame bushing |
| | 2 | Frame bushing bracket |
| 2 | 90000921 | 12mm 90 degree PosiLink |
| 2 | 90000922 | 12mm straight PosiLink |

Hardware:

- | | | |
|---|----------|---|
| 4 | 99122001 | 12mm Nylok Jam nuts for swivel end links |
| 2 | 99122002 | 12mm x 1 3/4" all thread to attach swivel end links (use Loctite) |
| 8 | 99433002 | 7/16" flat washers for end links |
| 4 | 99371004 | 3/8" x 1 1/4" USS bolt for frame bracket |
| 4 | 99372002 | 3/8" USS Nylok nut |
| 8 | 99373003 | 3/8" SAE flat washer |

MUSCLEbar™

by Air Ride Technologies

Installation Instructions

1. This sway bar is designed for use with RideTech lower StrongArms. It will not work with other arms without modification.
2. Remove the factory sway bar. **On trucks with a factory sway bar you will have to remove the sway bar frame mount.**



3. For 73-87

Bolt the new MuscleBar to the frame rail using the poly bushing and bracket. The rear hole for the factory sway bar mount will be reused for the rear hole in the new bracket. The front hole must be drilled with a 3/8" bit. Four 3/8" x 1 1/4" bolts, Nylok nuts, and eight flat washers will secure it to the frame.



3. For 63-72

Clamp the mount 2 3/4" behind the oval hole in the bottom of the frame. Both of the holes for the sway bar mount must be drilled with a 3/8" bit. Secure the mount with four 3/8" x 1 1/4" bolts, Nylok nuts and flat washers.



4. Install the end link to the sway bar and lower arm as shown in the picture. It will be fastened with 12mm jam nuts and flat washers.



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Part # 11369300
73-87 C-10 Drop Spindle Kit

- | | | |
|---|----------|-----------------------------|
| 1 | 11369301 | Pair of 73-87 drop spindles |
| 1 | 90001926 | Pair of caliper brackets |



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Part # 11359400
71-87 C-10 Billet Tie Rod Adjuster

- | | | |
|---|----------|---|
| 2 | 90000138 | 11/16" x 3 3/4" Billet tie rod adjuster |
| 2 | 99800000 | 11/16" SAE Right hand thread jam nut |
| 2 | 99800001 | 11/16" SAE Left hand thread jam nut |



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Part # 11366799
73-87 Chevy C10 AirBar

Components:

2	90009000	Tapered sleeve air spring
2	90000070	Air spring roll plate
4	90001617	5/8" shock stud
2	90001083	Medium bump stop – 1.5" tall
4	90000989	4 link bars (26.5" C-C)
1	90000952	Panhard bar (17.5" C-C)
5	90001584	Threaded rod end for rubber bushing
10	90001942	Rubber bushings (Pressed into 90001584)
1	90000670	Driver side C-Notch
1	90000671	Passenger side C-Notch
1	90000672	Lower bridge
2	90000673	Upper axle plate
1	90000668	Upper bridge
1	90000666	Driver side bar frame mount
1	90000667	Passenger side bar frame mount
1	90000494	Panhard bar axle bracket
1	90000487	P/H bar axle bracket stud(pressed in)
1	90000669	Brake line axle bracket
1		C-Notch Template
1	99010014	Hardware kit (listed on next page)

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99010014 Hardware Kit

8	5/8" x 6" SAE bolt	Lower bridge to axle
8	5/8" SAE Nylok nut	Lower bridge to axle
16	5/8" SAE flat washer	Lower bridge to axle
3	5/16" x 2" USS bolt	Panhard bar axle bracket
3	5/16" SAE flat washer	Panhard bar axle bracket
3	5/16" lock washer	Panhard bar axle bracket
9	5/8" x 2 3/4" SAE bolt	4 link bars and panhard bar
9	5/8" SAE Nylok jam nut	4 link bars and panhard bar
6	3/8" x 3/4" USS bolt	Air spring mounts
6	3/8" SAE flat washer	Air spring mounts
6	3/8" lock washer	Air spring mounts
46	7/16" x 1 1/4" USS bolt	C-Notch, bar frame mount and upper bridge
46	7/16" USS Nylok nut	C-Notch, bar frame mount and upper bridge
92	7/16" SAE flat washer	C-Notch, bar frame mount and upper bridge
1	5/16" x 1 1/4" USS bolt	Brake line bracket
1	5/16" USS Nylok nut	Brake line bracket
2	5/16" SAE flat washer	Brake line bracket
1	7/16" USS Nylok nut	Panhard bar stud
1	1/2" x 1 1/2" fender washer	Panhard bar stud

AirBAR[®]

by Air Ride Technologies

1. Raise the vehicle to a safe and comfortable working height.
2. Support the axle and remove the leaf springs, shock absorbers and front leaf spring hanger.
3. The rear leaf spring shackle and hanger may also be removed but is not necessary.
4. The exhaust tail pipe & mounts will also have to be removed from the rear of the muffler back. A turn down can be installed or a custom tail pipe can be made.
5. The arm that attaches the rubber brake line to the frame must be removed, the brake line will reattach to the new upper cross member.



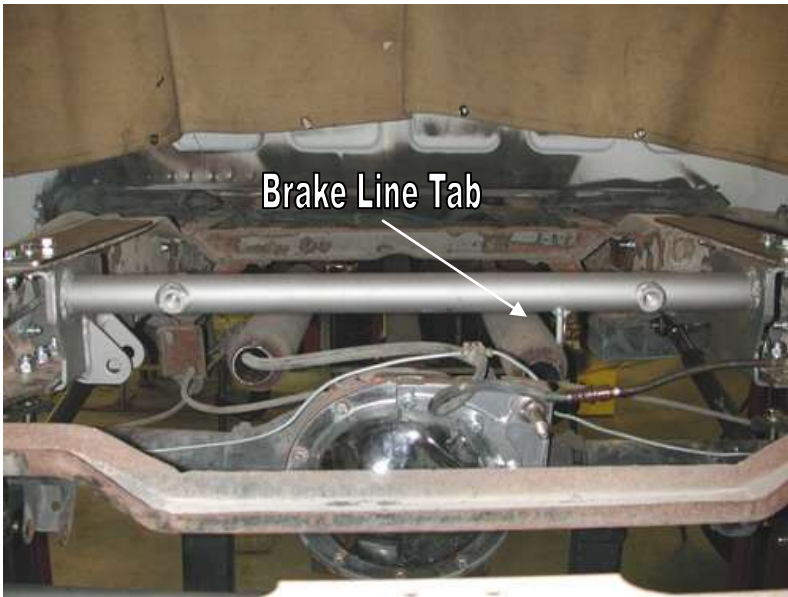
6. To allow maximum drop on this truck the frame must be notched. The template for the notch will locate off of the index hole shown below.

7. Scribe out the notch with a marker, then drill out the two corners with a $\frac{1}{2}$ " drill bit. This will give the cut a round edge and eliminate the possibility for stress fractures.

8. Support the rear section of the frame. Then cut the notch with a sawzall, cutoff wheel or plasma cutter. Grind all edges smooth.



9. Bolt the notch to the frame aligning it with the index hole in the frame and notch. Drill the remaining holes with a $\frac{7}{16}$ " bit. Use the $\frac{7}{16}$ " X $1 \frac{1}{4}$ " bolts, flat washers and Nylok nuts to secure the notch to the frame. Be sure to leave the rearward bolts out until the upper shock cross member has been installed. See the next step.



10. Bolt the upper cross member to the frame using $7/16"$ x $1 \frac{1}{4}"$ bolts, Nylok nuts and flat washers. It will attach to the bottom side of the frame rail & notch.

11. Attach the brake line to the tab on the upper cross member. It may be necessary to bend the brake line to attach it to the cross member.

12. Thread the $5/8"$ upper shock stud into the cross member.



13. Raise the lower bridge up to the leaf spring pad. Place the upper axle plate on top of the leaf spring pad and secure with four $5/8"$ x $6"$ bolts, Nylok nuts and flat washers. Tighten them evenly.

Note: It may be necessary to tweak the brake lines a bit to clear the bridge assembly.

14. Install the $5/8"$ shock studs into the lower bridge.



15. Bolt the 4 link frame mount to the frame utilizing the factory hanger bolt holes. These holes must be drilled out to $7/16"$. Secure the assembly with six $7/16"$ x $1 \frac{1}{4}"$ bolts, Nylok nuts and flat washers.

16. Attach the upper and lower bars to the frame bracket using the $5/8"$ x $2 \frac{3}{4}"$ bolts and Nylok jam nuts. The center-to-center measurement on the bars should be $26.5"$.

Note: Be sure to tighten the bar bolts with the axle at ride height.



17. Attach the upper and lower bars to the axle bracket assembly with $5/8"$ x $2\ 3/4"$ bolts and Nylok jam nuts.

Note: After attaching the bars, make sure the rod end jam nuts are tight.



18. Bolt the panhard bar axle bracket to the diff. cover using three $5/16"$ x $2"$ bolts, flat washers and lock washers.

19. The brake line will be relocated using the "L" bracket supplied with the kit. Secure the splitter to the "L" bracket with the $5/16"$ x $1\ 1/2"$ bolt, Nylok nut and flat washers.

Note: The brake lines will need to be rebent or new lines can be made.

20. Attach the panhard bar to the stud using the large fender washer and $7/16"$ Nyloc nut. The center-to-center measurement on the panhard bar is $17\ 1/2"$.



21. The other end of the panhard bar will attach to the cross member with a $5/8"$ x $2\ 3/4"$ bolt and Nylok jam nut.

22. Install the 2" bump stop into the notch. If you wish for the vehicle to drop an extra $1\ 1/2"$ a shorter bump stop can be installed, but a hole must be cut in the bed floor to allow clearance for the differential.

Note: We offer a $1/2"$ tall bump stop, Part # 90001082



23. Install the shock absorbers between the upper cross member and lower bridge using the supplied hardware.

24. Apply thread sealant to the air fitting and screw it into the top of the air spring. Fasten the air spring to the upper mount and lower bridge using three 3/8" x 3/4" bolts, flat washers and lock washers. **Do not overtighten these bolts, they just need to be snug.** Over tightening could pull the inserts out of the air spring.



26. To allow clearance for the C-Notch a section must be removed from the bed floor brace. This section is approximately 4" wide and about 7 1/2" from the fender well.

27. Check air spring, brake line & parking brake cable clearance through full suspension travel. **Allowing the air spring to rub on anything will result in failure and in not a warrantable situation.**

28. Ride height on this air spring is approximately 9" tall; should be around 60psi.



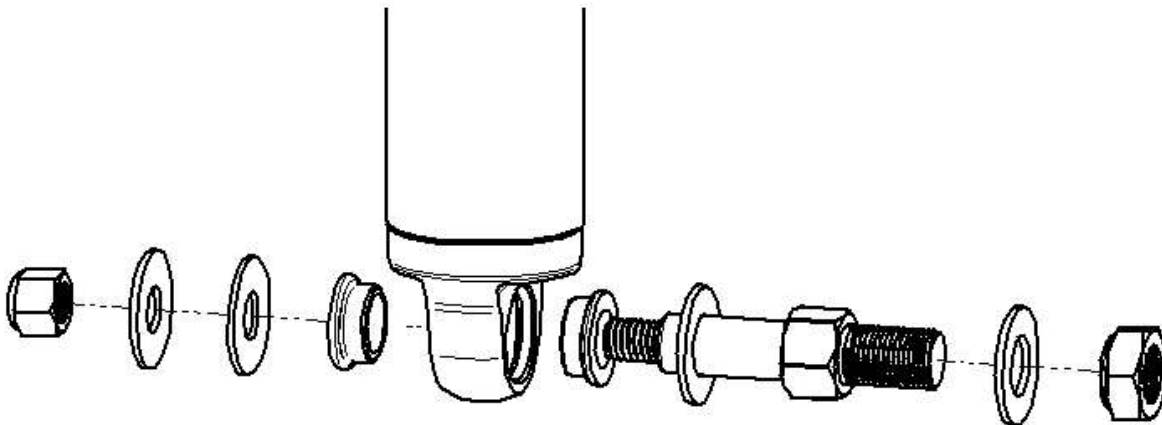


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Part # 11360811
73-87 C-10 Rear TQ Series Shock Kit
For Use w/ AirBar

Components:

2	24369999	6" stoke Master Series single adjustable shock	
2	90002024	1.7" eyelet – with adjustment knob	
4	90001994	.625" I.D. bearing	
8	90001995	Bearing snap ring	
8	90002067	Aluminum bearing spacers - .625" I.D.	
4	90002221	Reservoir mount	
12	99050000	4mm x .5" socket head cap screw	Reservoir mounts





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Part # 30334100
4100 Series LevelPro Compressor System

Components:

- 1 31920000 Air compressor
- 1 31934001 4 way RidePro air valve assembly
- 1 31915100 5 gallon aluminum tank
- 5 31988150 Air pressure sensor
- 1 31398001 LevelPro ECU
- 1 31398002 LevelPro Display
- 2 6-32 x 3/16" Phillips pan head screw for display
- 1 Installation Guide

Wiring & Hardware:

- 1 31900031 Display Harness
- 1 31900020 Air valve wiring harness
- 1 31900006 Air pressure sensor wiring harness
- 1 31900048 Main power / compressor harness

Airline & Fittings:

- 2 31940002 1/4" DOT airline - 30 ft. roll
- 6 31954201 1/4" npt x 1/4" tube elbow fitting for air springs
- 7 31954000 1/4" npt x 1/4" tube straight fitting for air valve and tank
- 3 31957004 1/4" npt plug to plug extra tank port



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Part # 30400034
4 Pack of LevelPro Height Sensors

4	31980002	Rotary height sensor
4	31980001	Linkage kit for height sensor
2	31900046	13' height sensor cord
2	31900047	18' height sensor cord
10	90002030	Heavy duty heat shrink tube - for rubber rod ends



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Part # 31008500
LevelPro Remote Control kit

1	31900039	Remote module
2	31900042	Key Fob
1	31900041	Antenna
1	31900001	Module to control panel USB cable