

99-06 4wd GM Truck Coilover Conversion Shock-Spring Calculator

Property of "Atomic" on Performancetrucks.net

Corner Sprung Weight (lb)	1600	(1400 to 1600ish)
Main Measurement (in)	15.750	(12"ish to 21"ish) (See PDF)
Bracket Kit	Full Kit	(Pick from drop down list)
Upper Mount Style	Procomp Adapter	(Pick from drop down list)
Shock Ride Height (in)	12.000	

	Short Shock	Mid Shock	Long Shock
Shock Choices	C203	C205	C217
Travel Down (in)	2.59	1.96	1.52
Travel Up (in)	0.60	2.24	3.13
Down Travel (%)	81%	47%	33%
Req. Spring Rate (lb/in)	2800	750	537
Req. Spring Length (in)	8	9	10

Instructions for using this spreadsheet

- Step 1.** Input your values in the GREEN cells (C5-C8). No other cells in this sheet are editable.
- Step 2.** Decide between the Short, Mid, and Long Shock (Cell C12, D12, or E12). Best choice will usually be the one closests to 50% down travel. 60% Travel Down is better than 40% Travel Down. <30% or >70% is not an acceptable range.
- Step 3.** Use the corresponding spring rate and length (Cells C16-C17 for the short shock, or D16-D17 for the mid shock, and E16-E17 for the long shock) and look up the closests spring part number (the last 4 digits of the part number is the spring rate for hyperco) on the next tab. This rate is a max, but dont go more than 25% lower or risk coil bind.
- Step 4.** Go to the last tab in this spreadsheet and make sure you have all of the other recommend parts for the swap.

Viking Double Adjustable Coilover Shocks - Bearing Top										
Shock Part Number		Upper Mount	Lower Mount	Recommended Ride Height (in)			Total Height (in)		Length (in)	
Warrior Part #	Crusader Part # *			Min	Median	Max	Compressed	Extended	Travel	Spring
C201	C301xx	Eye/Bearing	Eye/Bearing	9.625	10.00	10.375	8.63	11.07	2.44	7
C203	C303xx	Eye/Bearing	Eye/Bearing	10.750	11.19	11.625	9.41	12.60	3.19	8
C205	C305xx	Eye/Bearing	Eye/Bearing	11.625	12.13	12.625	10.04	14.24	4.20	9
C217	C317xx	Eye/Bearing	Eye/Bearing	12.375	12.88	13.375	10.48	15.13	4.65	10
C207	C307xx	Eye/Bearing	Eye/Bearing	13.250	13.75	14.250	11.10	16.35	5.25	10
C209	C309xx	Eye/Bearing	Eye/Bearing	13.875	14.50	15.125	11.57	17.32	5.75	12
C211	C311xx	Eye/Bearing	Eye/Bearing	15.125	15.81	16.500	12.57	19.32	6.75	14
C213	C313xx	Eye/Bearing	Eye/Bearing	15.625	16.38	17.125	12.85	19.85	7.00	14
C219	C319xx	Eye/Bearing	Eye/Bearing	16.625	17.50	18.375	13.61	21.36	7.75	14
C215	C315xx	Eye/Bearing	Eye/Bearing	18.375	19.31	20.250	20.00	23.54	8.69	14

*Replace "xx" in the part number as follows: "CD" (soft; Cruise), "AD" (soft, touring/front drag -tie down), "AJ" (Medium-soft; Drag Rear <600hp Big Tire), "AM" (Medium; Rear Drag all others), "AP" (Medium-fire; Pro-touring/Front Drag-tie Down), or "SX" (firm, speciality). Bearings are 1/2" ID and 1" Wide.

Viking Double Adjustable Coilover Shocks - Stud Top										
Shock Part Number		Upper Mount	Lower Mount	Ride Height (in)			Total Height (in)		Length (in)	
Warrior Part #	Crusader Part # *			Min	Median	Max	Compressed	Extended	Travel	Spring
C201-R	C301xx-R	Stud	Eye/Bearing	9.125	9.50	9.875	8.10	10.54	2.44	7
C203-R	C303xx-R	Stud	Eye/Bearing	10.250	10.69	11.125	8.88	12.07	3.19	8
C205-R	C305xx-R	Stud	Eye/Bearing	11.125	11.63	12.125	9.51	13.71	4.20	9
C217-R	C317xx-R	Stud	Eye/Bearing	11.875	12.38	12.875	9.95	14.60	4.65	10
C207-R	C307xx-R	Stud	Eye/Bearing	12.750	13.25	13.750	10.57	15.82	5.25	10
C209-R	C309xx-R	Stud	Eye/Bearing	13.250	13.94	14.625	11.04	16.79	5.75	12
C211-R	C311xx-R	Stud	Eye/Bearing	14.625	15.31	16.000	12.04	18.79	6.75	14
C213-R	C313xx-R	Stud	Eye/Bearing	15.125	15.88	16.625	12.32	19.32	7.00	14
C219-R	C319xx-R	Stud	Eye/Bearing	16.125	17.00	17.875	13.08	20.83	7.75	14
C215-R	C315xx-R	Stud	Eye/Bearing	17.875	18.81	19.750	14.32	23.01	8.69	14

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Viking Double Adjustable Coilover Shocks - All (both tables above combined)										
Shock Part Number		Upper Mount	Lower Mount	Ride Height (in)			Total Height (in)		Length (in)	
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