



Roadmaster Active Suspension (RAS) works like extra helper springs, air bags, anti-sway bars and traction bars all in one!

The RAS suspension assist upgrade adds critical strength to leaf springs but WILL NOT compromise ride quality, with or without a load. The patented design improves *load carrying ability* as well as enhances vehicle performance by controlling *sway, body roll, axle wrap, wheel hop* and *bottoming out*. Once installed no adjustments or maintenance is ever required.

With few exceptions, most every pickup truck and van with rear leaf springs in North America, with up to a 1 1/2 ton capacity, can be retrofitted.

Vehicle applications include:

- *Light duty pickups*
 - *1/2, 3/4 to 1 ton & dually pickups*
 - *1/2, 3/4 & 1 ton cargo vans*
 - *10, 12 & 15 passenger vans*
 - *Mini vans thru to full size delivery vans*
 - *Mobility & RV conversion vans*
- Note:** *Cab & Chassis box vans not applicable*

Popular customer applications:

- *Commercial and Industrial fleets*
- *Construction fleets*
- *Transportation fleets*
- *Collage, Church & Service organizations*
- *RV, Boat & ATV towing & hauling pickups*
- *Horse trailer towing pickups*
- *Vehicle & Utility trailer towing pickups*

ROADMASTER

ACTIVE SUSPENSION

PRODUCT APPLICATION GUIDE

by VEHICLE TYPE

ISSUE DATE: 04/20/10

The information contained herein is based on current known O.E.M. product changes and therefore renders all previously issued Application Guides null and void.

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ROADMASTER ACTIVE SUSPENSION

The Ultimate Leaf Spring Suspension Assist

The Roadmaster Active Suspension (RAS) system is unique in that it is the only aftermarket suspension upgrade that converts “passive” leaf springs into “mechanical active suspension”. Leaf springs resist load, RAS transformed leaf springs absorb and dissipate load force energy constantly correcting back to the optimum bowed position. This results in a

significant increase to load carrying ability and improvements to vehicle stability, balance, traction and control with or without a load. For vehicles that do operate under load, daily or distance, RAS should be considered a necessity. Benefits include improved fuel efficiency, vehicle safety and load carrying capacity as well as reduced driver fatigue and lower operating costs by extending tire and suspension components life.

- Two Year Manufacturers Warranty
- Easy to install, in approximately 60 minutes, with no welding drilling or cutting
- Detailed set-by-step fitting instructions provided
- Manufactured to the highest standards:

Leaf spring eye bracket made from high grade alloy spring steel, epoxy e-coated and proven to withstand 800 hour salt spray test

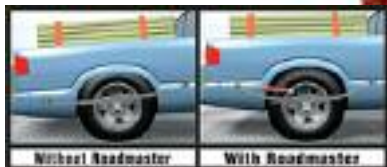
Articulating cup bearing facilitates full range of movement to each leaf spring

Grade 8 alloy steel all thread rod, yellow zinc plated

Variable rated tension coil spring, oil tempered steel and epoxy e-coated. Designed to support the leaf springs by holding them in original optimum bowed position.

Articulating roller facilitates full range of movement to each leaf spring

Axle connecting bracket made from high grade alloy spring steel, epoxy e-coated and proven to withstand 800 hour salt spray test





ROADMASTER

ACTIVE SUSPENSION

O Models:
Handling & Stability

X Models for up to 1/2 ton vehicles:
Handling, Stability & Regular Duty Loads

XX Models for 1/2 to 1 ton, plus vehicles:
Handling, Stability & Heavy Duty Loads

CHEVROLET

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:
2500 AVALANCHE PICKUP	2002 - 06	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
BLAZER SUV	1984 - 01	1351 / MK I - XCF		1351 / MK I - XCF	
BLAZER K5 SUV	1972 - 94			2351 / MK II - XF	
COLORADO PICKUP	2004 - 10	1358 / MK I - XCCF		1358 / MK I - XCCF	
1500, 2500 & 3500 CARGO VAN	1986 - 06	2469 / MK II - XXVF	2469 / MK II - XXVF		
1500, 2500 & 3500 CARGO VAN	2007 - 10	2469-A / MK II - XXVFM	2469-A / MK II - XXVFM		
1500, 2500 & 3500 EXPRESS VAN	1986 - 06	2469 / MK II - XXVF	2469 / MK II - XXVF		
1500, 2500 & 3500 EXPRESS VAN	2007 - 10	2469-A / MK II - XXVFM	2469-A / MK II - XXVFM		
S-10 PICKUP	1984 - 04	1351 / MK I - XCF		1351 / MK I - XCF	
1500 SILVERADO PICKUP	1973 - 89	2351 / MK II - XF	2461 / MK II - XXTF	2351 / MK II - XF	2461 / MK II - XXTF
1500 SILVERADO PICKUP	1990 - 10	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
2500 SILVERADO PICKUP	1973 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
3500 SILVERADO PICKUP	1973 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
1500 SUBURBAN SUV	1984 - 89	2351 / MK II - XF	2461 / MK II - XXTF	2351 / MK II - XF	2461 / MK II - XXTF
1500 SUBURBAN SUV	1990 - 99	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
2500 SUBURBAN SUV	1984 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
TAHOE SUV	1995 - 98	2361 / MK II - XTF		2361 / MK II - XTF	
TAHOE SUV	1999 ONLY	2364 / MK II - XDTF		2364 / MK II - XDTF	



ROADMASTER

ACTIVE SUSPENSION



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Handling & Stability

X Models for up to 1/2 ton vehicles:
Handling, Stability & Regular Duty Loads

XX Models for 1/2 to 1 ton, plus vehicles:
Handling, Stability & Heavy Duty Loads

CHRYSLER / DODGE / PLYMOUTH

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD	
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	
CARAVAN MINIVAN	1996 - 07	2375 / MK II - XP				
TOWN 'N COUNTRY MINIVAN	1996 - 07	2375 / MK II - XP				
VOYAGER MINIVAN	1996 - 01	2375 / MK II - XP				
DAKOTA PICKUP	1992 - 04	1357 / MK I - XDDF		2354 / MK II - XDF	2464 / MK II - XXDF	
DAKOTA PICKUP	2005 - 10	2354 / MK II - XDF	2464 / MK II - XXDF	2354 / MK II - XDF	2464 / MK II - XXDF	
D100 & 1500 RAM PICKUP	1973 - 01	2354 / MK II - XDF	2464 / MK II - XXDF	2354 / MK II - XDF	2464 / MK II - XXDF	
1500 RAM PICKUP W/ SPECIAL NOTE:	2002 - 08	2358 / MK II - XDDF	2458 / MK II - XXDDF	2358 / MK II - XDDF	2458 / MK II - XXDDF	
1500 RAM PICKUP W/ SPECIAL NOTE:	2002 - 08	CAN NOT FIT FITS: 2 1/2" wide leaf spring and rear shackle swinging from top down			CAN NOT FIT	CAN NOT FIT
2500 & 3500 RAM PICKUP	1973 - 02	2464 / MK II - XXDF	2464 / MK II - XXDF	2464 / MK II - XXDF	2464 / MK II - XXDF	
2500 & 3500 RAM PICKUP W/ SPECIAL NOTE:	2003 - 10	2460 / MK II - XXRF	2460 / MK II - XXRF	2460 / MK II - XXRF	2460 / MK II - XXRF	
3500 RAM CAB CHASSIS	2009 - 10	CAN NOT FIT	CAN NOT FIT	CAN NOT FIT	CAN NOT FIT	
1500 RAM VAN / CARGO	1992 - 97	2352 / MK II - XFF	2452 / MK II - XXFF			
1500 RAM VAN / CARGO	1998 - 04	2351 / MK II - XF	2451 / MK II - XXF			
2500 & 3500 RAM VAN / CARGO	1992 - 97	2452 / MK II - XXFF	2452 / MK II - XXFF			
2500 & 3500 RAM VAN / CARGO	1998 - 04	2451 / MK II - XXF	2451 / MK II - XXF			
SPRINTER VAN - 2500 & 3500	2004 - 06	2459 / MK II - XXDDMF --- WITH SINGLE BLADE LEAF SPRING & 70 MM DIA. SPRING EYE				
SPRINTER VAN - 2500 & 3500	2007 - 10	UNDER DEVELOPMENT				
SPRINTER VAN - 2500 & 3500	2004 - 06	2459-A / MK II - XXDDSF --- WITH DUAL BLADE LEAF SPRING & 70 MM DIA. SPRING EYE				
SPRINTER VAN - 2500 & 3500	2007 - 10	UNDER DEVELOPMENT				
SPRINTER CAB/CHASSIS 3500	2004 - 06	2458-A / MK II - XXDDTF --- WITH DUAL BLADE LEAF SPRING & 61 MM DIA. SPRING EYE				
SPRINTER CAB/CHASSIS 3500	2007 - 10	UNDER DEVELOPMENT				



O Models:
Handling & Stability

X Models for up to 1/2 ton vehicles:
Handling, Stability & Regular Duty Loads

XX Models for 1/2 to 1 ton, plus vehicles:
Handling, Stability & Heavy Duty Loads

FORD

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:
BRONCO SUV	1966 - 96	2363 / MK II - XATF		2363 / MK II - XATF	
BRONCO II SUV	1984 - 90	2363 / MK II - XATF		2363 / MK II - XATF	
E150 ECONO VAN /CLUB WAGON	1973 - 10	2352 / MK II - XFF	2452 / MK II - XXFF		
E250 ECONO VAN /CLUB WAGON	1973 - 10	2452 / MK II - XXFF	2452 / MK II - XXFF		
E350 ECONO VAN /CLUB WAGON	1973 - 07	2451 / MK II - XXF	2451 / MK II - XXF		
E350 ECONO VAN /CLUB WAGON	2008 - 10	2452-A / MK II - XXFFM	2452-A / MK II - XXFFM		
EXCURSION SUV	1999 - 05	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
EXPLORER SUV	1991 - 01	1356 / MK I - XBF		1356 / MK I - XBF	
EXPLORER "SPORT" SUV (ONLY)	2002 - 05	1356 / MK I - XBF		1356 / MK I - XBF	
EXPLORER SPORT TRAC	2000 - 05	1356 / MK I - XBF		1356 / MK I - XBF	
F100 & F150 PICKUP	1973 - 03	2352 / MK II - XFF	2452 / MK II - XXFF	2352 / MK II - XFF	2452 / MK II - XXFF
F150 PICKUP	2004 - 10	2391 / MK II - XSF	2491 / MK II - XXSF	2391 / MK II - XSF	2491 / MK II - XXSF
F250 & F350 PICKUP	1973 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
LINCOLN MARK LT PICKUP	2006 - 10	2391 / MK II - XSF	2491 / MK II - XXSF	2391 / MK II - XSF	2491 / MK II - XXSF
MERCURY MOUNTAINEER SUV	1995 - 01	1356 / MK I - XBF		1356 / MK I - XBF	
MUSTANG [V8 MODELS]	1965 - 74	1052 / MK I - O			
RANGER PICKUP	1973 - 10	2353 / MK II - XAF		2353 / MK II - XAF	

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GMC

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:
CANYON PICKUP	2004 - 10	1358 / MK I - XCCF		1358 / MK I - XCCF	
JIMMY SUV	1984 - 01	1351 / MK I - XCF		1351 / MK I - XCF	
JIMMY K5 SUV	1972 - 94			2351 / MK II - XF	
1500, 2500 & 3500 SAVANA CARGO VAN*	1986 - 06	2469 / MK II - XXVF	2469 / MK II - XXVF	*AIR SUSPENSIONS EXCLUDED	
1500, 2500 & 3500 SAVANA CARGO VAN*	2007 - 10	2469-A / MK II - XXVFM	2469-A / MK II - XXVFM	*AIR SUSPENSIONS EXCLUDED	
1500, 2500 & 3500 SAVANA PASS. VAN*	1986 - 06	2469 / MK II - XXVF	2469 / MK II - XXVF	*AIR SUSPENSIONS EXCLUDED	
1500, 2500 & 3500 SAVANA PASS. VAN*	2007 - 10	2469-A / MK II - XXVFM	2469-A / MK II - XXVFM	*AIR SUSPENSIONS EXCLUDED	
1500 SIERRA PICKUP	1973 - 89	2351 / MK II - XF	2461 / MK II - XXTF	2351 / MK II - XF	2461 / MK II - XXTF
1500 SIERRA PICKUP	1990 - 10	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
2500 SIERRA PICKUP	1973 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
3500 SIERRA PICKUP	1973 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
SONOMA PICKUP	1984 - 04	1351 / MK I - XCF		1351 / MK I - XCF	
1500 SUBURBAN SUV	1984 - 89	2351 / MK II - XF	2461 / MK II - XXTF	2351 / MK II - XF	2461 / MK II - XXTF
1500 SUBURBAN SUV	1990 - 99	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
2500 SUBURBAN SUV	1984 - 10	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF	2451 / MK II - XXF
YUKON SUV	1995 - 98	2361 / MK II - XTF		2361 / MK II - XTF	
YUKON SUV	1999 ONLY	2364 / MK II - XDTF		2364 / MK II - XDTF	



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HONDA

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:
PASSPORT SUV	1994 - 97	1362 / MK I - XTF		1362 / MK I - XTF	

ISUZU

PICKUP	1983 - 95	1362 / MK I - XTF		2351 / MK II - XF	
PICKUP	1996 - 04	1351 / MK I - XCF		1351 / MK I - XCF	
i280 & i350 PICKUP	2005 - 10	1358 / MK I - XCCF		1358 / MK I - XCCF	
RODEO SUV	1991 - 97	1362 / MK I - XTF		1362 / MK I - XTF	
TROOPER SUV	1986 - 96	1362 / MK I - XTF		1362 / MK I - XTF	

JEEP

WRANGLER / YJ	1986 - 96			1062 / MK I - OTF	
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MAZDA

B SERIES PICKUP	1986 - 94	1362 / MK I - XTF		2351 / MK II - XF	
B SERIES PICKUP	1995 - 10	2353 / MK II - XAF		2353 / MK II - XAF	

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MITSUBISHI

MODEL	YEAR	2 Wheel Drive	w/HEAVY LOAD	4 Wheel Drive	w/HEAVY LOAD
		ITEM# / REF:	ITEM# / REF:	ITEM# / REF:	ITEM# / REF:
MONTERO SPORT SUV	1987 - 99			1362 / MK I - XTF	
RAIDER PICKUP	2006 - 10	2354 / MK II - XDF	2464 / MK II - XXDF	2354 / MK II - XDF	2464 / MK II - XXDF

NISSAN

PICKUP - 4 CYLINDER	1986 - 04	1362 / MK I - XTF		2362 / MK II - XTF	
PICKUP - 6 CYLINDER	1998 - 04	1362 / MK I - XTF		2362 / MK II - XTF	
TITAN PICKUP	2004 - 10	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
XTERRA XE SUV	1999 - 04	1362 / MK I - XTF		1362 / MK I - XTF	
XTERRA XE SUV	2005 - 10	1350 / MK I - XF		1350 / MK I - XF	

OLDSMOBILE

BRAVADA SUV	1991 - 01			1351 / MK I - XCF	
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TOYOTA

PICKUP AND TACOMA	1986 - 04	1362 / MK I - XTF		2351 / MK II - XF	
TACOMA PICKUP	2005 - 10	1350 / MK I - XF		2351 / MK II - XF	
PRE-RUNNER PICKUP	1998 - 10	2351 / MK II - XF		2351 / MK II - XF	
T-100 PICKUP	1993 - 98	1362 / MK I - XTF		2351 / MK II - XF	
TUNDRA PICKUP	1999 - 06	2351 / MK II - XF	2451 / MK II - XXF	2351 / MK II - XF	2451 / MK II - XXF
TUNDRA PICKUP	2007 - 10	4618-A / MK4-XXDDFA	4618-A / MK4-XXDDFA	4618-A / MK4-XXDDFA	4618-A / MK4-XXDDFA



For model confirmation or installation assistance, please contact our
Technical Department at 1-800-398-5036 / e-mail to: roadmaster@activesuspension.ca

? DID YOU KNOW ? DID YOU KNOW ? DID YOU KNOW ? DID YOU KNOW ?

■ **Heavy Loads:**

The "HEAVY LOAD" columns in the above Application Guide shows the **OPTIONAL** heavy duty **XX** Roadmaster kit that should be fitted to vehicles towing or hauling heavy loads. This **XX** option is highly recommended, when applicable, for vehicles that carry a full load of passengers, 5th wheel trailers, slide-in campers, construction / landscaping equipment or materials (in bed or towed), ATV's or Snowmobiles, automobile or large boat trailers, etc., etc.

■ **Overload Springs:**

When installing the Roadmaster system on a heavy duty pickup truck, that has an overload spring located **above** each pack of leaf springs, the overload spring **MUST FIRST BE REMOVED**. It is also recommended that the rear snubber located on the truck frame be removed as this could cause damage to Roadmaster components.

■ **Setting Tension:**

In order to set the Roadmaster coil springs to the correct tension, the leaf springs must be in their maximum arched position. Therefore, to achieve correct tension the rear axle **MUST** be hanging free with **NO LOAD** on the leaf springs.

■ **Exceeding Tension Setting:**

NEVER exceed the recommended coil spring tension setting, as stated in the Roadmaster kit installation Instructions.

■ **Watch For Obstructions:**

When installing the Roadmaster System, make sure that the unit **DOES NOT** interfere with any brake lines, brake cables, air conditioning or heater hoses or any other obstructions. When installation is complete and the vehicle is set down, inspect the undercarriage again to ensure the operation of the system will be obstruction free.

■ **Proper Locking:**

Follow fitting instructions to ensure proper fastener locking procedure as this is important for the ongoing performance of the Roadmaster System. After installation, check all fasteners to insure that proper locking has occurred.

■ **RAS and/or U-Bolt Removal:**

CAUTION: ALWAYS reduce coil spring tension to nil prior to attempting system or U-bolt removal. This is achieved by:

- 1) unscrewing the two nuts that lock the threaded rod to the coil spring,
- 2) hold the jam nuts located on the end of the threaded rod with a wrench,
- 3) turn the cap screw (which is locked to the coil spring) anti-clockwise until the tension on the spring is nil.

IT IS RECOMMENDED NOT TO LOAD ANY VEHICLE BEYOND THE MANUFACTURERS' MAXIMUM GVWR

Product Information & Order Desk:
1-800-322-5946
e-mail to: info@activesuspension.ca

