

DODGE 4500/5500 CHASSIS CAB 4X2 & 4X4 2008-NEWER MODELS

Link Part No. 8M000100 (13.5K) Rear Axle

80002167 JAN 21, 2015

Please read this manual before operating you UltraRide® suspension and keep it for future reference.



223 15th Street N.E. Sioux Center, Iowa 51250

For questions with your UltraRide suspension, please contact us toll free at (800) 222-6283

Visit www.LinkMfg.com

Congratulations on your new UltraRide!

Thank you for choosing the Link UltraRide chassis air suspension for your vehicle. When properly installed, UltraRide will substantially improve ride and handling in your medium duty vehicle. With no lubrication required and only periodic maintenance as indicated in this manual, your new UltraRide suspension will provide you with many miles of reliable, trouble free service.

In the unlikely event of a suspension malfunction between regular vehicle maintenance intervals, immediate corrective action should be taken to prevent further suspension damage. Call us or use our website, www.linkmfg.com, to help locate a Link dealer near you

SAFETY



Warning symbols in this guide

Instructions that when not followed can result in injury to yourself or others or damage to the vehicle are highlighted by the warning triangle symbol. These comments should be read and observed.

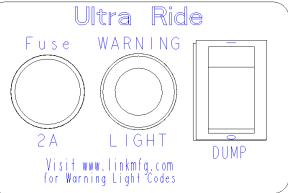
OPERATION

Your Link UltraRide chassis air suspension is fully automated and requires no manual intervention during normal vehicle operation. Ride height is controlled by the air control kit with the air compressor activated as necessary whenever the ignition key is in the ON position and system air pressure is below a preset minimum.

CONTROL PANEL

The dashboard mounted control panel includes three components that perform the following functions:

□ The 2 ampere fuse on the left side of the control panel protects the electrical circuits on the UltraRide air kit. If your compressor does not start when the vehicle ignition is in the ON position and the reservoir pressure is low, check this fuse.



- The Low Pressure Warning Light located in the center of the control panel indicates a severe loss of reservoir air pressure (below 60 psi) when the light is energized. The Low Pressure Warning Light may be on at vehicle start-up or briefly after the DUMP feature has been used; however, should it remain on for more than 5-7 minutes or should it come on while the vehicle is in motion, immediate action should be taken to determine and correct the source of air loss. Failure to take immediate corrective action may cause severe damage to suspension components.
- The DUMP switch located on the right hand side of the control panel causes air to be exhausted from the air springs when in the on position. This function may be used to raise or lower your vehicle for hitching or unhitching a towed vehicle. The normal position for this switch is OFF.



NEVER operate your vehicle with the DUMP switch in the ON position and/or the air springs deflated. Severe damage to the air springs and suspension components may result.

MAINTENANCE

Under normal driving conditions, your UltraRide requires very little maintenance. However, a few simple preventative actions will extend suspension life and reliability. To reduce down time, most of these actions may be performed at normal vehicle service intervals. **Failure to perform scheduled maintenance may result in loss of warranty coverage.**

If your vehicle requires professional service, your authorized dealer can provide the necessary parts and service. Refer to your installer or the nearest dealer (located by either contacting Link Customer Service at (800) 222-6283 or online at www.linkmfg.com.)



Before any maintenance or service is performed on an UltraRide chassis suspension, system air pressure must be relieved by pulling the air reservoir drain valve cable. Failure to do so may result in serious injury.

Follow all TMC Recommendations for Air Suspensions and Drive Axles.

AFTER THE INITIAL DRIVE:

□ Check & re-torque axle clamp fasteners.

DAILY SERVICE:

Release any moisture in air tank by pulling on air release cable.

CHECK AT EVERY VEHICLE SERVICE INTERVAL:

- □ Check Design Height (7.50±¼").
- Check for air leaks around fittings.
- Check tire pressures.
- □ Check air compressor filter and replace annually.
- Visually check Valve/Linkage hardware for function and that components/fasteners are intact.

CHECK AFTER THE FIRST 3000 MILES:

- Recheck & tighten any loose fasteners.
- Check for any loose or worn components.

CHECK EVERY 30,000 MILES:

- Check arm pivot and lateral control rod bushings for wear; Replace if worn.
- □ Check all fasteners and re-torque if there is evidence of loosening (refer to Torque Table).

CHECK ANNUALLY:

Check shock absorbers for oil leaks and function

MAINTENANCE

TORQUE TABLE				
LOCATION	FASTENER	TORQUE		
FRAME FASTENERS	M12 X 1.75 NUT	95 FT-LBS		
FRONT CONTROL ARM	M22 X 2.5 NUT	610 FT-LBS		
REAR CONTROL ARM	5/8 UNC NUT	200 FT-LBS		
SWAY BAR	M22 X 2.5 NUT	610 FT-LBS		
SWAY BAR BUSHING	5/8 UNC NUT	200 FT-LBS		
LATERAL CONTROL ROD (FRAME SIDE)	M22 X 2.5 NUT	610 FT-LBS		
LATERAL CONTROL ROD (AXLE SIDE)	5/8 UNC NUT	200 FT-LBS		
AXLE BRACKETS	1/2 UNC NUT	100 FT-LBS		
AIR SPRING TOP STUD	3/4 UNC JAM NUT	50 FT-LBS		
AIR SPRING BOTTOM	1/2 UNC BOLT	30 FT-LBS		
SHOCK ABSORBER	3/4 UNC NUT	275 FT-LBS		
EXHAUST SHIELD	5/16 UNC NUT	20 FT-LBS		

UltraRide - TROUBLE SHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION	
Vehicle sags when unused	☐ Air fitting leaks	 Remove fitting, apply joint compound, and re- install fitting. Do not over-tighten an do not use Teflon tape. 	
	☐ Air fitting defective	☐ Replace air fitting.	
	☐ Height control valve defective	☐ Replace height control valve.	
	☐ Air spring defective	□ Replace air spring.	
Rough Ride	☐ Air spring over-inflated.	Adjust height control linkage to maintain proper	
	☐ Shock absorbers defective.	air spring ride height.	
	☐ Tires over-inflated.	Replace shock absorbers.	
		Set tire inflation per vehicle owner's manual.	
	☐ Air spring under-inflated.	☐ Adjust height control linkage to maintain proper	
Inconsistent handling	☐ Shock absorbers defective.	air spring ride height.	
	☐ Tires incorrectly inflated.	Replace shock absorbers.	
	☐ Lateral control rod bushings damaged.	Set tire inflation per vehicle owner's manual.	
		Replace lateral control rod.	
Suspension makes popping sound	☐ Loose components	Inspect components for damage and re-torque fasteners per torque table.	

WARRANTY

Link UltraRide warrants their suspension's fabricated structural components against failure under normal use for period of three (3) years or 75,000 miles*, whichever occurs first. This warranty period begins with the date of installation to the original owner. Under this warranty Link UltraRide will replace or repair any part that by its inspection is determined to be defective. In addition, for a period not to exceed twelve (12) months ** Link UltraRide will provide a labor allowance, which it determines to be adequate to properly replace or repair defective structural parts and or components.

All parts or components thought to be defective must be returned with company authorization, freight prepaid, to Link UltraRide. A complete written explanation of claimed defects and circumstances of failure, the serial number, and date of installation must accompany these returns. Link UltraRide must authorize labor allowance prior to initiation of repairs.

*Purchased components and/or accessories other than the fabricated structure are warranted for one (1) year or 36,000 miles, whichever occurs first. This warranty period begins with the date of installation to the original owner.

**Purchased components and/or accessories other than the fabricated structure are eligible for a warranted labor allowance for twelve (12) months or 18,000 miles from installation date.

***Special Stipulations: For Ambulance Applications
IF THESE STIPULATIONS ARE NOT ADHERED TO, ONLY STANDARD WARRANTY WILL APPLY.
All must be equipped with an Electronic or Commercial Duty Air Kit, and Air Dryer.
Warranty: Air kits and Related - See Separate Component Policies

Limitations

Link UltraRide accepts no warranty responsibility for:

Incidental or consequential damages or loss of time or profits resulting from product failure. Damage resulting from owner or operator abuse, misuse or neglect.

Failure due to improper installation.

Component parts manufactured by others for Link UltraRide, beyond those companies' implied or expressed warranty.

Compressor components under severe service applications – ask for details.

Suspension and axle must be operated within the range specified by axle and suspension manufacturers. Please check vehicle specifications and intended usage to insure axle will be within Gross Axle Weight Rating (GAWR). NO alteration of any suspension component is permitted. Use of vehicle in any situation or condition in excess of GAWR will void warranty.

This warranty is in lieu of any other warranty, obligation, or liability on the part of Link UltraRide and no other person is authorized to make any representation or warranties beyond those expressed herein. All implied warranties of fitness and merchantability for any particular purpose are hereby excluded. There are no other warranties of fitness which extend beyond the description on the face hereof.



223 15th St. NE Sioux Center, IA USA 51250-2120 (800) 222-6283 http://www.linkmfg.com/

Questions	? Contact	:this F	Professional	Instal	ler :
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Company :	
Phone :	
Installer:	Date :