Auxiliary Suspensions

Link Mfg. Ltd. 223 15th St. N.E. Sioux Center, IA USA 51250-2120 www.linkmfg.com

QUESTIONS? CALL CUSTOMER SERVICE 1-800-222-6283

SPECIFICATIONS ORDER GUIDE SERVICE KITS AND PARTS

13.5K Auxiliary Suspension Air Disc Brake

13,500 LBS. CAPACITY



The Link 13.5K Auxiliary Suspension Air Disc Brake is a lightweight, 13,500 pound capacity, self-steering lift axle that incorporates several unique features. The patented, interchangeable ride height brackets allow the installer to manage inventory dollars and still have a lift axle available for almost any truck. The improved lift spring geometry of the Link 13.5K Auxiliary Suspension Air Disc Brake assures longer life of the lift springs and less downtime for the owner. The compact mounting envelope (22") combined with the integrated air control system (optional) saves valuable frame rail space. The separate ride height brackets and pre-plumbed integrated air control kit can save up to 3-5 hours of installation time.

SUSPENS	ION-AX	LE, UNITIZED (BASE UNIT)		
☐ 8A00	00754	AUXILIARY SUSPENSION, 13.5K		
☐ 8A00	00755	AUXILIARY SUSPENSION, 13.5K INTEGRATE	ED AIR	
FRAME B	RACKET	Γ KITS, (CHOOSE ONE)		
STANDAR	RD FRAN	ME BRACKETS	TALL FRAME B	RACKETS
☐ 8A00	00410	8 - 10 1/2" RIDE HEIGHT (NO SPACER)	☐ 8A000414	8 - 10 1/2" RIDE HEIGHT
☐ 8A00	00411	10 - 12 1/2" RIDE HEIGHT (2" SPACER)	☐ 8A000415	10 - 12 1/2" RIDE HEIGHT
☐ 8A00	00412	12 - 14 1/2" RIDE HEIGHT (4" SPACER)	☐ 8A000416	12 - 14 1/2" RIDE HEIGHT
☐ 8A00	00413	14 - 16 1/2" RIDE HEIGHT (6" SPACER)	☐ 8A000417	14 - 16 1/2" RIDE HEIGHT
AIR CONT	ROL KI	TS FOR INTEGRATED SUSPENSIONS (CHOC	OSE ONE)	
<u> </u>	01023	CONTROL-INTEGRATED-STANDARD		
<u> </u>	01024	CONTROL-INTEGRATED-SEALED		
OPTIONA	L AIR C	ONTROL KITS FOR NON-INTEGRATED SUSP	PENSION (CHOOSE	ONE)
<u> </u>	01025	CONTROL-NON-INTEGRATED-STANDARD		
<u> </u>	01026	CONTROL-NON-INTEGRATED-SEALED		
OPTIONA	L KITS			
☐ 800 <i>k</i>	4 0210	KIT-MOUNT, SHOCK ABSORBER		
 800 <i>k</i>	A 0032	FASTENER KIT 2" FASTENERS		
 800 <i>A</i>	40305	FASTENER KIT 2 1/2" FASTENERS"		
1350	01016	RATIO RELAY VALVE KIT		
 800 <i>k</i>	A 0212	REVERSE LOCK KIT (CUSTOMER / UPFITTE	R INSTALLED)	
1350	01027	KIT-AIR TANK		
OPTIONA	L FENDI	ER KITS (CHOOSE ONE)		
□ 8008 □	A0211	KIT-FENDER, 13.5K ADB		
8000	02601	FENDER-PAIR, ALUM, 12" WIDE, LOW PROF	ILE	
 	02602	FENDER-PAIR, SS, 12" WIDE, LOW PROFILE		
8000	02603	FENDER-PAIR, ALUM, 12" WIDE		
_		FENDER-PAIR, SS, 12" WIDE		
		FENDER-PAIR POLY 12" WIDE LOW PROFI	II F	

To order your Link 13.5K Auxiliary Suspension Air Disc Brake, use the order form on page 2 of this document to assist with your specific selections.

- 1. Order the Base Unit.
- 2. Order the Ride Height Bracket Kit.
 - a) Determine the Loaded Tire Radius on the chart below.
 - b) Subtract Loaded Tire Radius from Loaded Frame Height to find correct ride height.

Loaded Frame Height - Loaded Tire Radius = Ride Height

- c) Select the correct Ride Height Bracket part number from the chart from page 5 or 6 depending on your application.
- 4. Choose the desired Air Control Kit.
- 5. Select any additional Optional Equipment.
- 6. Call your Link Manufacturing Sales representative at the number below to place your order.

QUICK SPECS

MODEL: 13.5K

TYPE: SELF-STEER

WEIGHT: 1018 LBS

CAPACITY: 13,500 LBS

TRAVEL: 13"

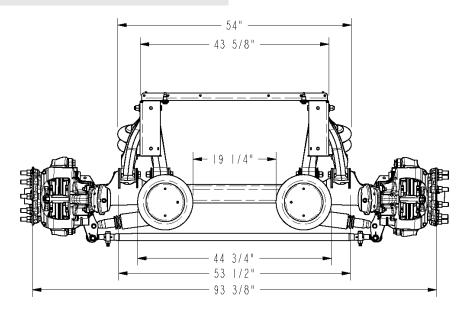
LIFT: 7 - 9 1/2"

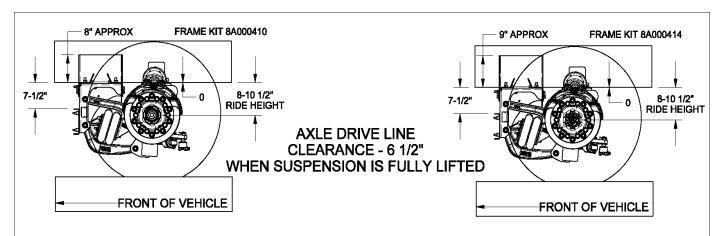
RIDE HEIGHT: 8 - 16 1/2"

ENVELOPE: 22"

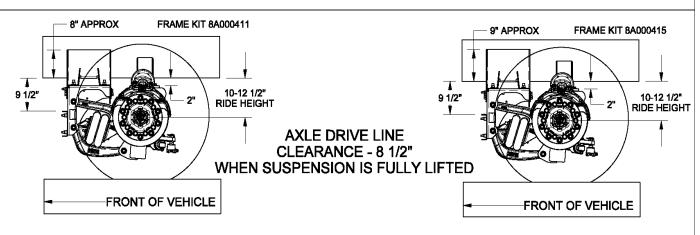
FRAME WIDTH: 33 1/2 - 35"

TUBE TYPE	TUBELESS	ISO (METRIC)	LOADED TIRE RADIUS	DIAMETER
8.25R15	8.5R17.5	225/70R19.5	15	32.9
	9R17.5	245/70R19.5	15.5	33.1
	10R17.5		15.5	33.9
	8R19.5		16	34
10.00R15			16.5	35.8
7.50R20	8R22.5	255/70R22.5	17	36.5
	11R17.5	245/75R22.5	17	36.6
8.25R20	9R22.5	235/80R22.5	17.5	37.8
		255/75R22.5	17.5	37.7
		255/80R22.5	18	38.4
		265/75R22.5	18	38.2
		295170R22.5	18.2	38.7
9.00R20	10R22.5	295/75R22.5	18.5	40.2
		275/80R22.5	19	40.4
	11R22.5	295/80R22.5	19.5	41.9
10.00R20		445/65R19.5	19.5	42.6
		285/75R24.5	19.5	42.7
		315/80R22.5	19.9	42.8
		385/65R22.5	19.5	42.3
		275/80R24.5	19.5	41.3
11.00R20	12R22.5		20	42.8
10.00R22	13R22.5	425/65R22.5	20.5	44.5
12.00R20	11R24.5		20.5	44
11.00R22	12R24.5	445/65R22.5	21	45
12.00R22			21.5	46
13.00R20	13R24.5		21.5	46.3

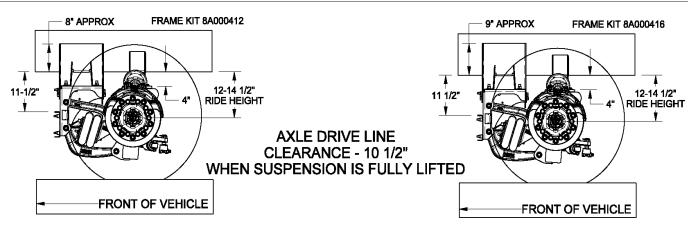




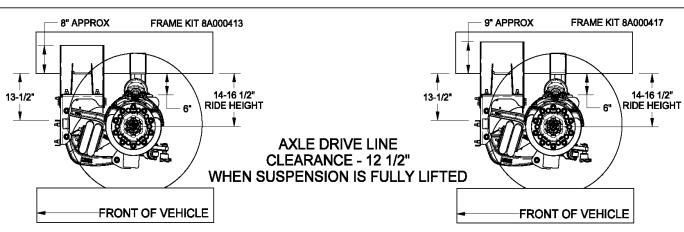
13.5K LIFT CHART		HEIGH ME MOU		1/2" IT 8A00	0410	OR 8A0	00414)										
LOADED FRAME HEIGHT	23"	23 1/2"	24"	24 1/2"	25"	25 1/2"	26"	26 1/2"	27"	27 1/2"	28"	28 1/2"	29"	29 1/2"	30"	30 1/2"	31"	31 1/2
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)			7"	7 1/2"	8"	8 1/2"	9"	9 1/2"										
17" (LOADED)					7"	7 1/2"	8"	8 1/2"	9"	9 1/2"								
18" (LOADED)							7"	7 1/2"	8"	8 1/2"	9"	9 1/2"						
19" (LOADED)									7"	7 1/2"	8"	8 1/2"	9"	9 1/2"				
20" (LOADED)											7"	7 1/2"	8"	8 1/2"	9"	9 1/2"		
21" (LOADED)													7"	7 1/2"	8°	8 1/2"	9"	9 1/2



13.5K LIFT CHART		HEIGH ME MOI		2 1/2" IT 8A00	0411	OR 8A0	00415)										
LOADED FRAME HEIGHT	25"	25 1/2"	26"	26 1/2"	27"	27 1/2"	28"	28 1/2"	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"	32"	32 1/2"	33"	33 1/2"
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)			7"	7 1/2"	8"	8 1/2"	9"	9 1/2"										
17" (LOADED)					7"	7 1/2"	8"	8 1/2"	9"	9 1/2"								
18" (LOADED)							7"	7 1/2"	8"	8 1/2"	9"	9 1/2"						
19" (LOADED)									7"	7 1/2"	8"	8 1/2"	9"	9 1/2"				
20" (LOADED)											7"	7 1/2"	8"	8 1/2"	9"	9 1/2"		
21" (LOADED)													7"	7 1/2"	8"	8 1/2"	9"	9 1/2"

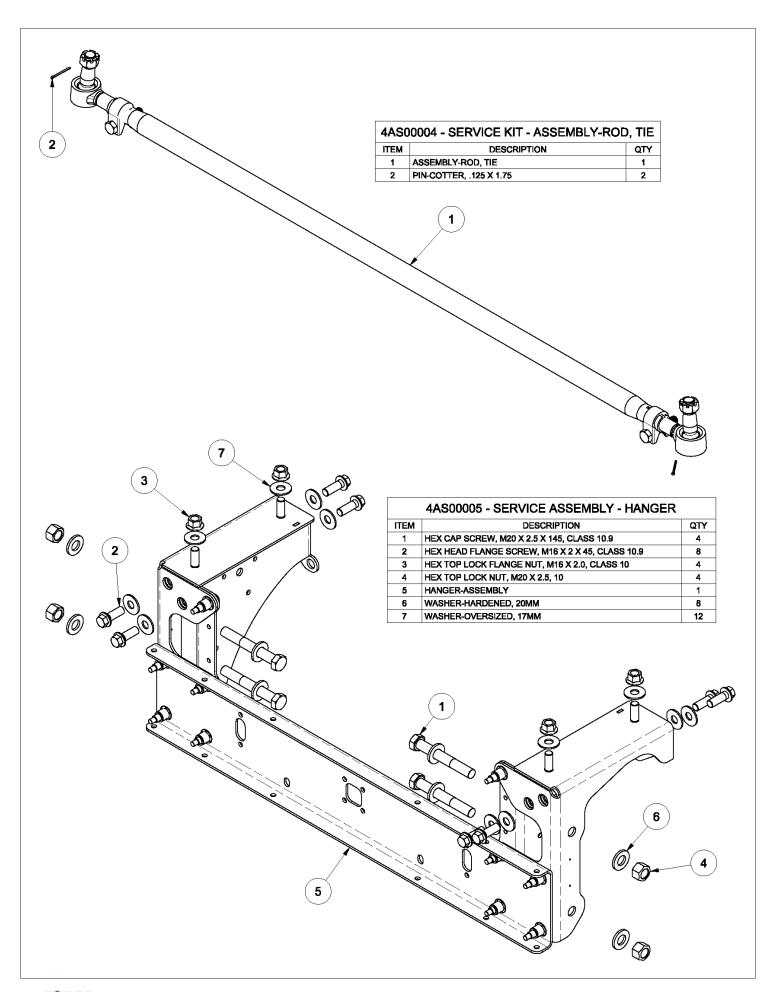


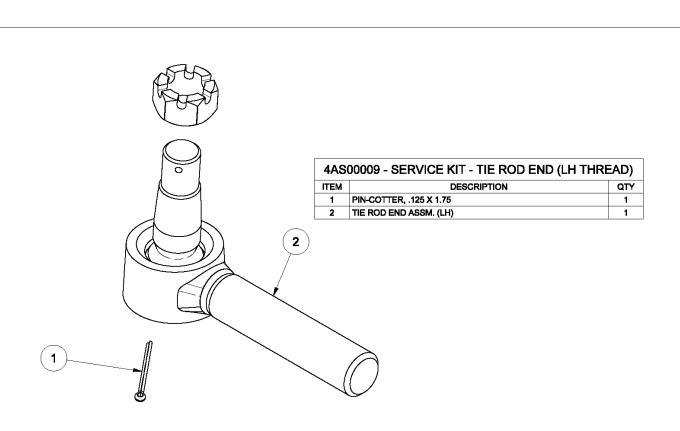
13.5K LIFT CHART		HEIGH ME MOU		4 1/2" IT 8A00	0412	OR 8A0	00416)		_								
LOADED FRAME HEIGHT	27"	27 1/2"	28"	28 1/2"	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"	32"	32 1/2"	33"	33 1/2"	34"	34 1/2"	35"	35 1/2
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)			7"	7 1/2"	8"	8 1/2"	9"	9 1/2"										
17" (LOADED)					7°	7 1/2"	8"	8 1/2"	9"	9 1/2"								
18" (LOADED)							7"	7 1/2"	8"	8 1/2"	9"	9 1/2"						
19" (LOADED)									7"	7 1/2"	8"	8 1/2"	9"	9 1/2"				
20" (LOADED)											7"	7 1/2"	8"	8 1/2"	9"	9 1/2"		
21" (LOADED)													7"	7 1/2"	8"	8 1/2"	9"	9 1/2"

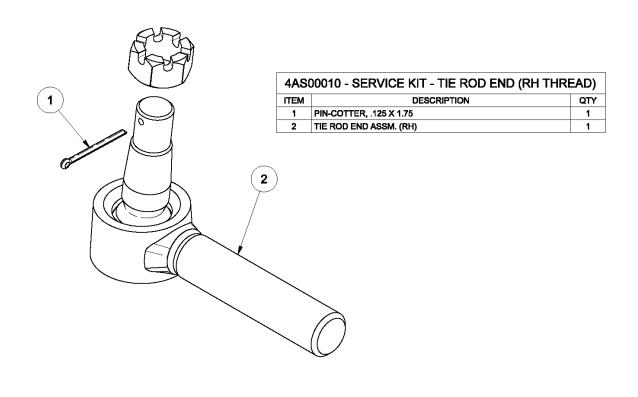


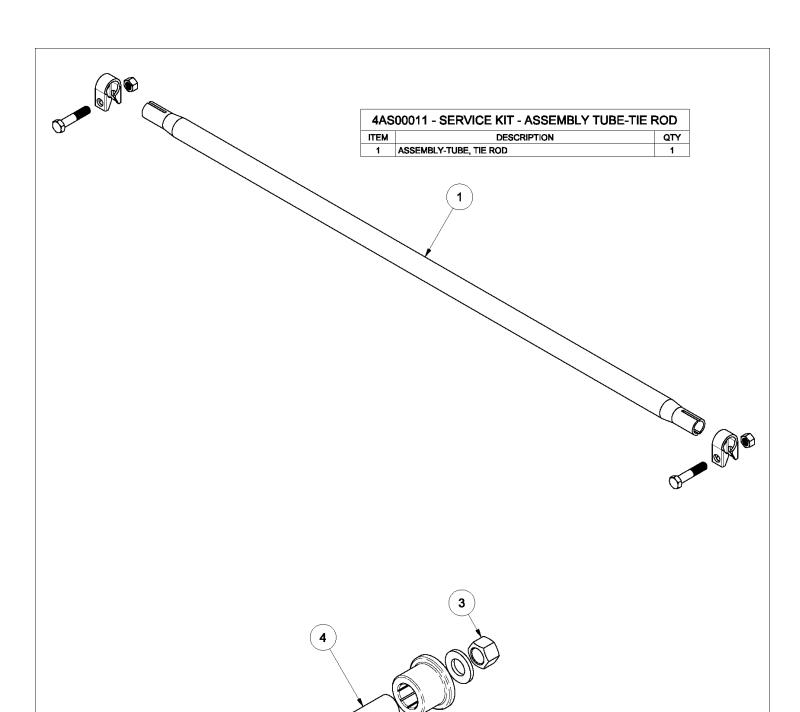
13.5K LIFT CHART		HEIGHT			0413	OR 8A0	0417)										
LOADED FRAME HEIGHT	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"	32"	32 1/2"	33"	33 1/2"	34"	34 1/2"	35"	35 1/2"	36"	36 1/2"	37"	37 1/2
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)			7"	7 1/2"	8"	8 1/2"	9"	9 1/2"										
17" (LOADED)					7"	7 1/2"	8"	8 1/2"	9"	9 1/2"								
18" (LOADED)							7"	7 1/2"	8"	8 1/2"	9"	9 1/2"						
19" (LOADED)									7"	7 1/2"	8"	8 1/2"	9"	9 1/2"				
20" (LOADED)											7"	7 1/2"	8"	8 1/2"	9"	9 1/2"		
21" (LOADED)													7"	7 1/2"	8"	8 1/2"	9"	9 1/

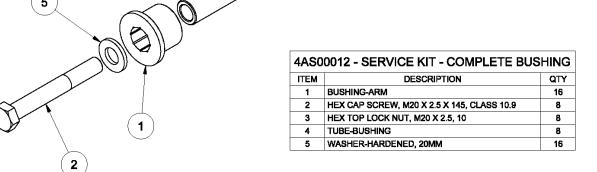
SERVICE ITE	MS FOR 13.5K AUXILIARY SUSPENSION ADB
ITEM NUMBER	DESCRIPTION
4AS00004	SERVICE KIT - ASSEMBLY-ROD, TIE
4AS00005	SERVICE ASSEMBLY - HANGER
4AS00009	SERVICE KIT - TIE ROD END (LH THREAD)
4AS00010	SERVICE KIT - TIE ROD END (RH THREAD)
4AS00011	SERVICE KIT - ASSEMBLY TUBE-TIE ROD
4AS00012	SERVICE KIT - COMPLETE BUSHING
4AS00013	SERVICE KIT - UPPER ARM-LH
4AS00014	SERVICE KIT - UPPER ARM-RH
4AS00015	SERVICE KIT - LOWER ARM-LH
4AS00016	SERVICE KIT - LOWER ARM-RH
4AS00022	SERVICE KIT - STEERING STOP BOLT
4AS00023	SERVICE KIT - COMPLETE STEERING STABILIZER
4AS00029	SERVICE KIT - HUB CAP ASSEMBLY
4AS00032	SERVICE KIT - LIFT SPRING
4AS00033	SERVICE KIT - LOAD SPRING
4AS00038	SERVICE ASSEMBLY - AXLE-FABRICATED
4AS00049	SERVICE KIT - WHEEL NUT
4AS00084	SERVICE KIT - COMPLETE RIDE SHOCK
4AS00085	SERVICE ASSEMBLY - KNUCKLE-MACHINED-LH
4AS00086	SERVICE ASSEMBLY - KNUCKLE-MACHINED-RH
4AS00087	SERVICE KIT - COMPLETE KINGPIN
4AS00088	SERVICE KIT - COMPLETE BRAKE BOLT



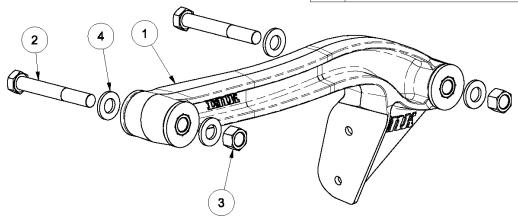




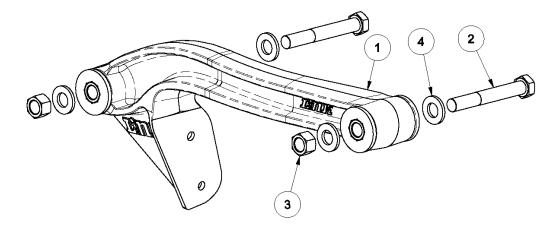




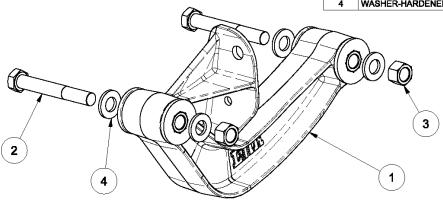
4AS	00013 - SERVICE KIT - UPPER ARM	I-LH
ITEM	DESCRIPTION	QTY
1	ARM ASSEMBLY-TRAILING, UPPER LH	1
2	HEX CAP SCREW, M20 X 2.5 X 145, CLASS 10.9	2
3	HEX TOP LOCK NUT, M20 X 2.5, 10	2
4	WASHER-HARDENED, 20MM	4

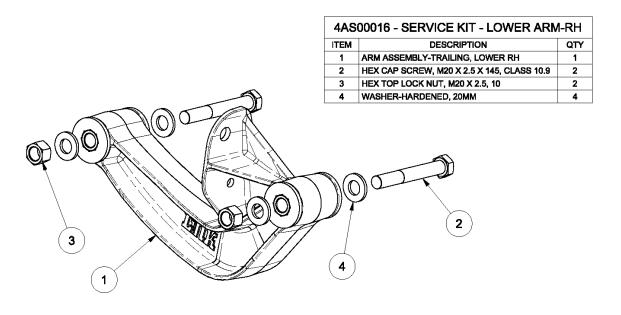


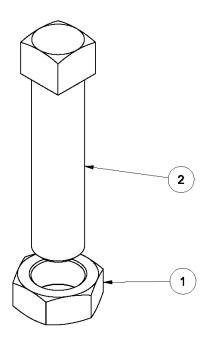
4AS	00014 - SERVICE KIT - UPPER ARM	I-RH
ITEM	DESCRIPTION	QTY
1	ARM ASSEMBLY-TRAILING, UPPER RH	1
2	HEX CAP SCREW, M20 X 2.5 X 145, CLASS 10.9	2
3	HEX TOP LOCK NUT, M20 X 2.5, 10	2
4	WASHER-HARDENED, 20MM	4



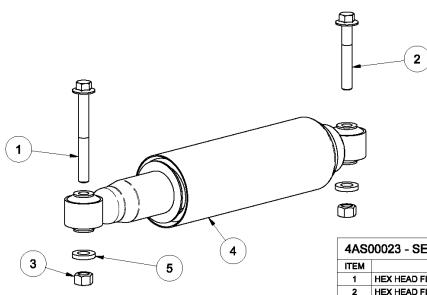




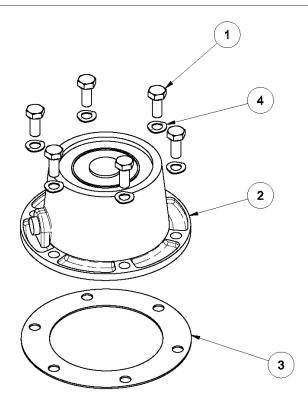




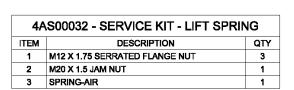
4AS	00022 - SERVICE KIT - STEERING STOP B	OLT
ITEM	DESCRIPTION	QTY
1	5/8 UNC HEX JAM NUT, GR 5	1
2	BOLT-STOP, STEERING, GEOMET	1

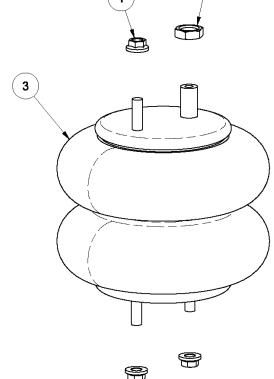


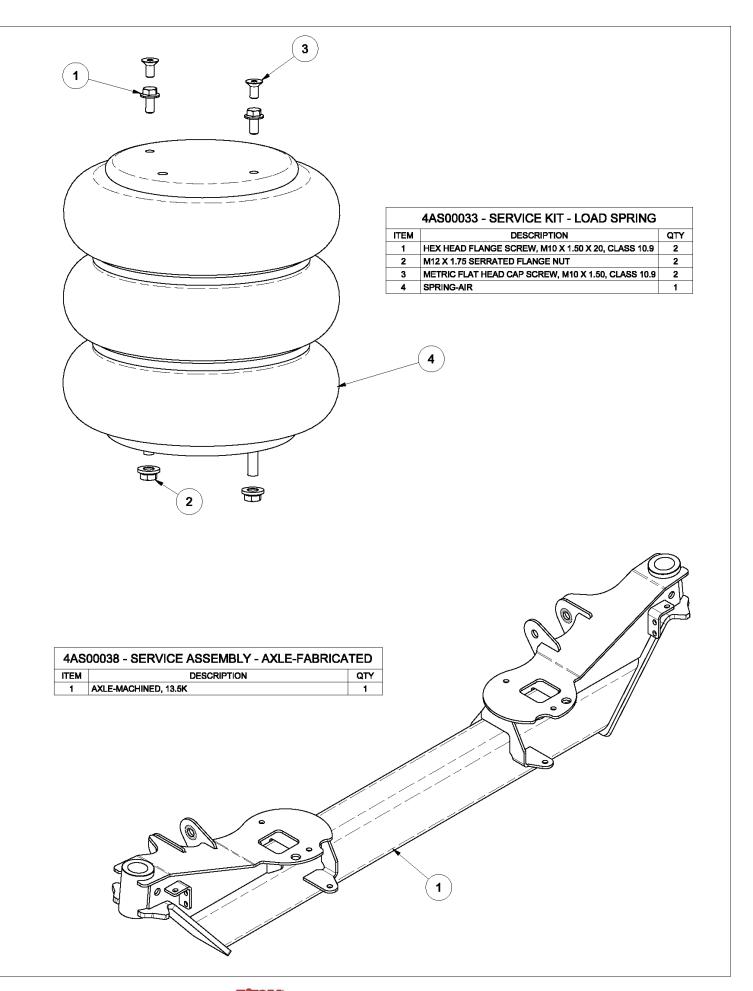
4AS	00023 - SERVICE KIT - COMPLETE STEERING STABIL	IZER
ITEM	DESCRIPTION	QTY
1	HEX HEAD FLANGE SCREW, M12 X 1.75 X 110, CLASS 10.9	2
2	HEX HEAD FLANGE SCREW, M12 X 1.75 X 80, CLASS 10.9	2
3	HEX TOP LOCK NUT, M12 X 1.75, 10	4
4	SHOCK ABSORBER, WIDE BODY	2
5	WASHER-HARDENED, 12MM	4

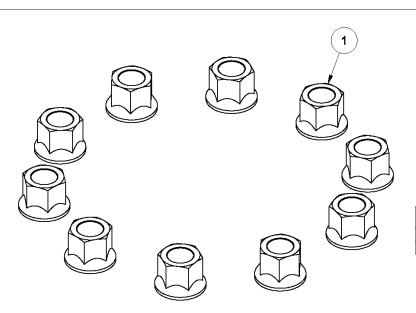


4AS0	00029 - SERVICE KIT - HUB CAP AS	SEMBLY
ITEM	DESCRIPTION	QTY
1	5/16 X 7/8 UNC HEX CAP SCREW, GR 5	6
2	CAP-HUB, 6 HOLE, 4.5" B.C.	1
3	GASKET	1
4	WASHER-SPRING	6



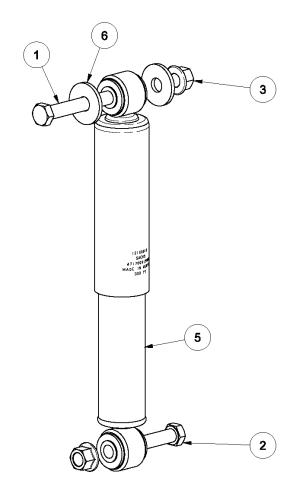


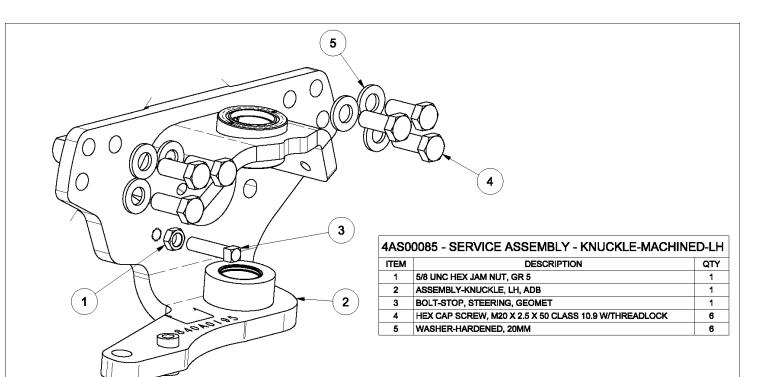


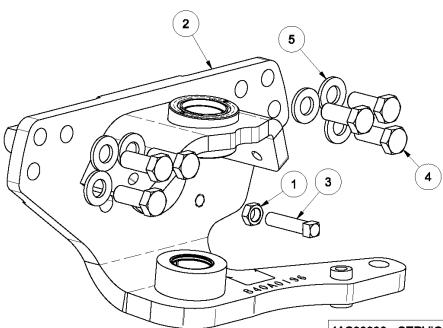


4AS00049 - SERVICE KIT - WHEEL NUT		
ITEM	DESCRIPTION	QTY
1	NUT-FLANGE, M22 X 1.5	10



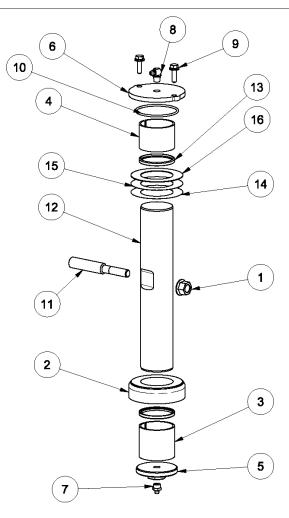




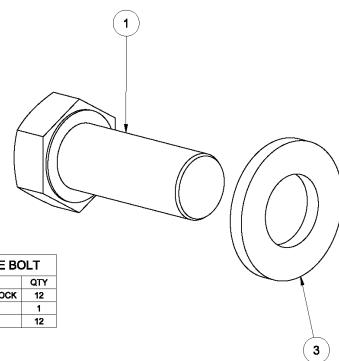


4ASO	0086 - SERVICE ASSEMBLY - KNUCKLE-MACHINI	ED-RH
ITEM	DESCRIPTION	QTY
1	5/8 UNC HEX JAM NUT, GR 5	1
2	ASSEMBLY-KNUCKLE, RH, ADB	1
3	BOLT-STOP, STEERING, GEOMET	1
4	HEX CAP SCREW, M20 X 2.5 X 50 CLASS 10.9 W/THREADLOCK	6
5	WASHER-HARDENED, 20MM	6

16



4AS0	0087 - SERVICE KIT -COMPLETED KIN	IGPIN
ITEM	DESCRIPTION	QTY
1	7/16 UNC HEX TOP LOCK FLANGE NUT, GRADE G	2
2	BEARING-THRUST	2
3	BUSHING-KNUCKLE	2
4	BUSHING-KNUCKLE, UPPER	2
5	CAP-KING PIN	2
6	CAP-KNUCKLE, BOLT	2
7	FITTING-GREASE, 1/8-27STR THD FORM	2
8	FITTING-GREASE, 90°	2
9	HEAVY HEX FLNG SCR M6 X 1.0 X 20 CLS 10.9	4
10	O-RING, 2.300 I.D. X .103 SECTION	2
11	PIN-DRAW, LOCKING	2
12	PIN-KING, 13.5K (1.88)	2
13	SEAL-KNUCKLE	4
14	SHIM (.005)	2
15	SHIM (.010)	2
16	SHIM (.030)	2



REFERENCE LIST OF INDUSTRY AVAILABLE SERVICE PARTS

AFTERMARKET PARTS FOR CONMET HUB/ROTOR ASSEMBLY			
ITEM	CONMET PART NUMBER	DESCRIPTION	
1	10083194	AFTERMARKET HUB/ROTOR ASSEMBLY	
2	10081727	REBUILD KIT (INCLUDES BEARING CUPS AND CONES, SEAL AND SPACER)	
3	10081518	SEAL AND SPACER KIT	
4	10045883	CONMET SEAL KIT	
5	10041905	BEARING KIT - INNER	
6	10041906	BEARING KIT - OUTER	
7	10009780	ABS RING ONLY	
8	10036548	PRESET PLUS NUT KIT	
9	10001399	WHEEL STUD (MUST BE ORDERED IN MULTIPLES OF 10)	
10	10082074	ROTOR KIT	

AFTERMARKET PARTS FOR BENDIX ADB 22X BRAKE CALIPER ASSEMBLY			
ITEM	BENDIX PART NUMBER	DESCRIPTION	
1	802078	PAD KIT (DOES 1 COMPLETE AXLE)	
2	802455	SHEAR ADAPTER (BOX OF 10)	
3	K028226	SERVICE ACTUATOR, TYPE 16 UNIVERSAL	
REFER TO BENDIX SERVICE DATA DOCUMENT SD-23-7541 FOR COMPLETE DETAILS.			

Wherever possible, Link Manufacturing, LTD encourages the use of best practices in the industry in service and support of the products it manufactures. Many of these recommended practices that Link Manufacturing, LTD supports can be found in documentation compiled by The Technology & Maintenance Council (TMC). To obtain copies of the following Recommend Practice (RP's), contact TMC at

TMC/ATA Phone: 703-838-1763
2200 Mill Road Website: tmc.truckline.com

Alexandria, VA 22314 Online ordering: <u>www.truckline.com/store</u>

TMC RP 222	User's Guide to Wheels and Rims
TMC RP 608	Brake Drums and Rotors
TMC RP 622	Wheel Seal and Bearing Removal, Installation, and Maintenance
TMC RP 631	Recommendations For Wheel End Lubrication
TMC RP 640	Alternate Wheel Bearing Adjustment Systems
TMC RP 644	Wheel End Conditions Analysis Guide
TMC RP 645	Tie Rod End Inspection and Maintenance Procedure
TMC RP 648	Troubleshooting Ride Complaints
TMC RP 651	Steer Axle Maintenance Guidelines
TMC RP 652	Service and Inspection of Air Disc Brakes
TMC RP 1503	Brake Maintenance Guidelines for Severe Vocational Applications
TMC RP 1515	Auxiliary Axle Maintenance Guidelines For Vocational Vehicles



LINK MANUFACTURING, LTD. 223 15TH ST. NE SIOUX CENTER, IA 51250 1-800-222-6283 www.linkmfg.com