Auxiliary Suspensions

SPECIFICATIONS ORDER GUIDE SERVICE KITS AND PARTS

13.5K Auxiliary Suspension 13,500 LBS. CAPACITY



The Link 13.5K Auxiliary Suspension 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 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.

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

SUSPENSION-AX	(LE, UNITIZED (BASE UNIT)		
☐ 8A000748	AUXILIARY SUSPENSION, 13.5K		
☐ 8A000749	AUXILIARY SUSPENSION, 13.5K INTEGRATED AIR		
FRAME BRACKE	T KITS, (CHOOSE ONE)		
STANDARD FRA	ME BRACKETS	TALL FRAME B	RACKETS
☐ 8A000410	8 - 10 1/2" RIDE HEIGHT (NO SPACER)	8A000414	8 - 10 1/2" RIDE HEIGHT
☐ 8A000411	10 - 12 1/2" RIDE HEIGHT (2" SPACER)	☐ 8A000415	10 - 12 1/2" RIDE HEIGHT
☐ 8A000412	12 - 14 1/2" RIDE HEIGHT (4" SPACER)	■ 8A000416	12 - 14 1/2" RIDE HEIGHT
☐ 8A000413	14 - 16 1/2" RIDE HEIGHT (6" SPACER)	☐ 8A000417	14 - 16 1/2" RIDE HEIGHT
AIR CONTROL K	ITS FOR INTEGRATED SUSPENSIONS (CHOOSE ON	NE)	
13501023	CONTROL-INTEGRATED-STANDARD		
<u> </u>	CONTROL-INTEGRATED-SEALED		
OPTIONAL AIR C	CONTROL KITS FOR NON-INTEGRATED SUSPENSIO	ON (CHOOSE ONE)	
13501025	CONTROL-NON-INTEGRATED-STANDARD		
<u> </u>	CONTROL-NON-INTEGRATED-SEALED		
OPTIONAL KITS			
☐ 800A0210	KIT-MOUNT, SHOCK ABSORBER		
☐ 800A0032	FASTENER KIT 2" FASTENERS		
☐ 800A0305	FASTENER KIT 2 1/2" FASTENERS"		
13501016	RATIO RELAY VALVE KIT		
☐ 800A0212	REVERSE LOCK KIT (CUSTOMER / UPFITTER INST	ΓALLED)	
<u> </u>	KIT-AIR TANK		
OPTIONAL FEND	DER KITS (CHOOSE ONE)		
☐ 800A0206	KIT-FENDER MOUNT, 13.5K AXLE		
80002601	FENDER-PAIR, ALUM, 12" WIDE, LOW PROFILE		
80002602	FENDER-PAIR, SS, 12" WIDE, LOW PROFILE		
80002603	FENDER-PAIR, ALUM, 12" WIDE		
80002604	FENDER-PAIR, SS, 12" WIDE		
80002605	FENDER-PAIR, POLY, 12" WIDE, LOW PROFILE		

To order your Link 13.5K Auxiliary Suspension, 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.

		CV	CD	ECC
W	Ul	UN	J	ECS

MODEL: 13.5K

TYPE: SELF-STEER

WEIGHT: 916 LBS

CAPACITY: 13,500 LBS

TRAVEL: 13"

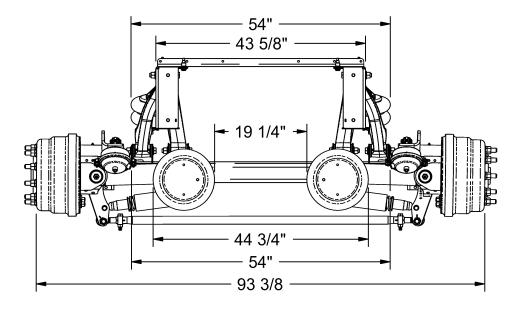
LIFT: 7 - 9 1/2"

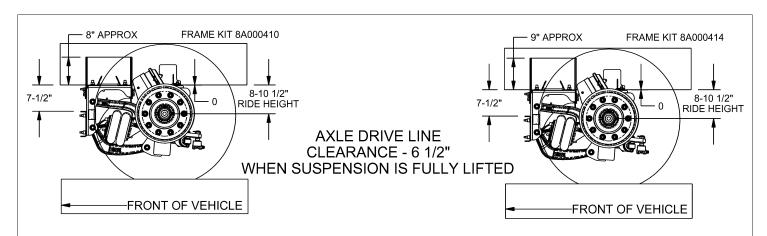
RIDE HEIGHT: 8 - 16 1/2"

ENVELOPE: 22"

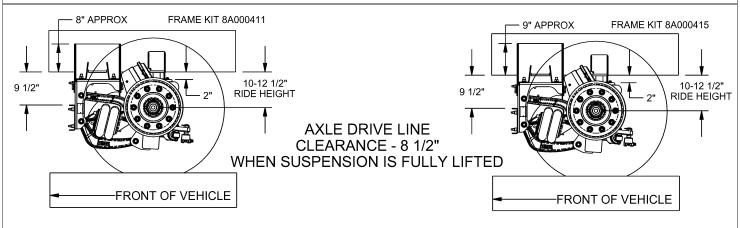
FRAME WIDTH: 33 1/2 - 35"

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

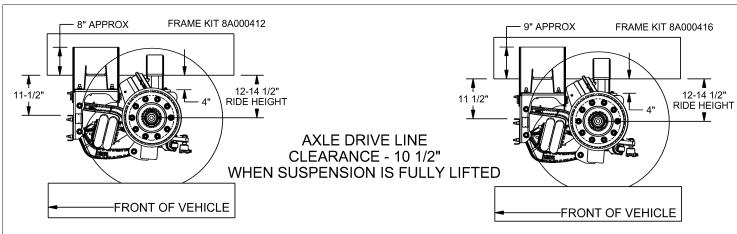




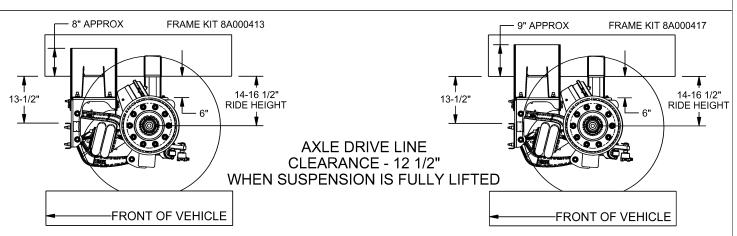
13.5K LIFT CHART		HEIGH ME MOI		1/2" IT 8A00	0410	OR 8A0	00414)										
LOADED FRAME HEIGHT	23"	23 1/2"	24"	24 1/2"	25"	25 1/2"	26"	26 1/2"	27"	27 1/2"	28"	28 1/2"	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)	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

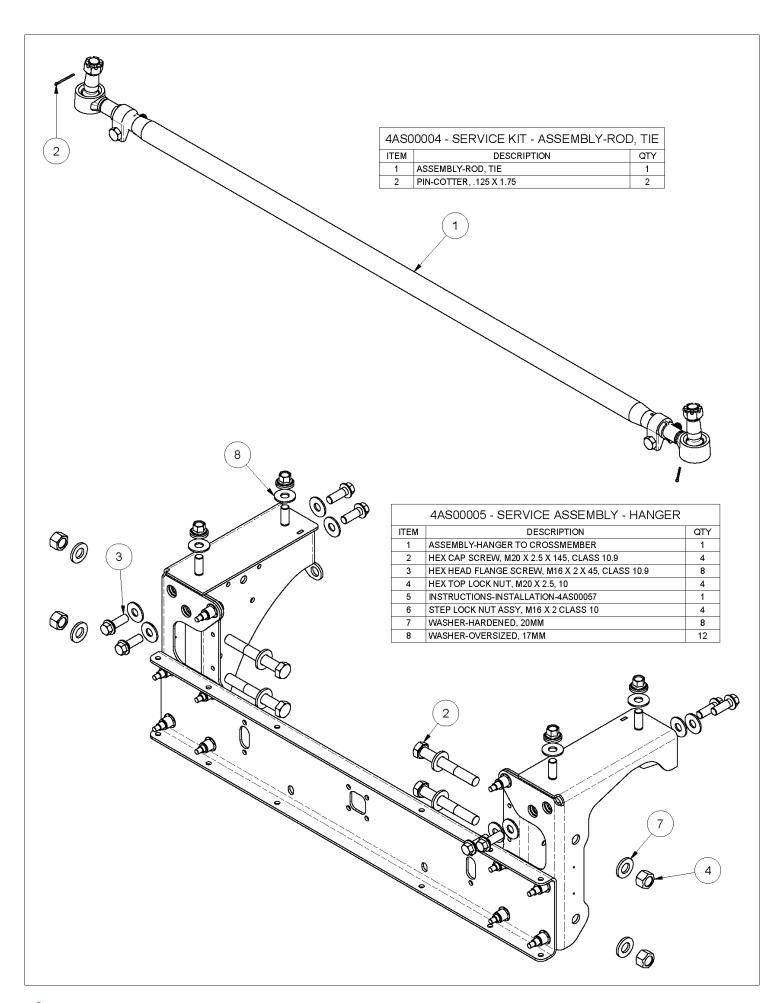


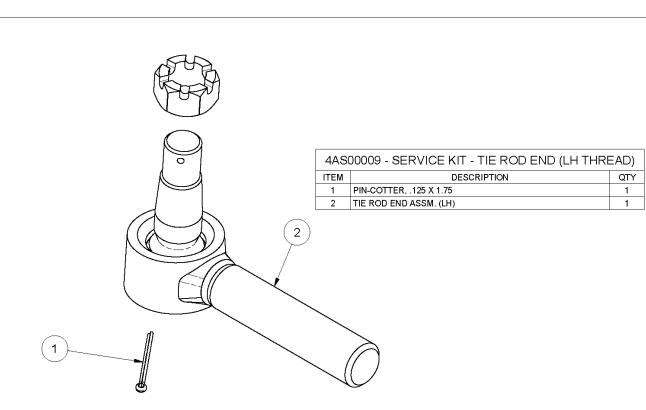
13.5K LIFT CHART		HEIGH ME MOI		4 1/2" IT 8A00	0412	OR 8A0	00416)										
LOADED FRAME HEIGHT	27"	27 1/2"	28"	28 1/2"	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"	32"	32 1/2"	33"	33 1/2"	34"	34 1/2"	35"	35 1/2"
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)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

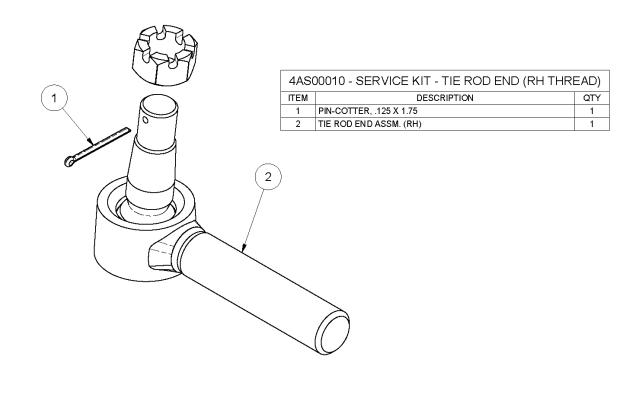


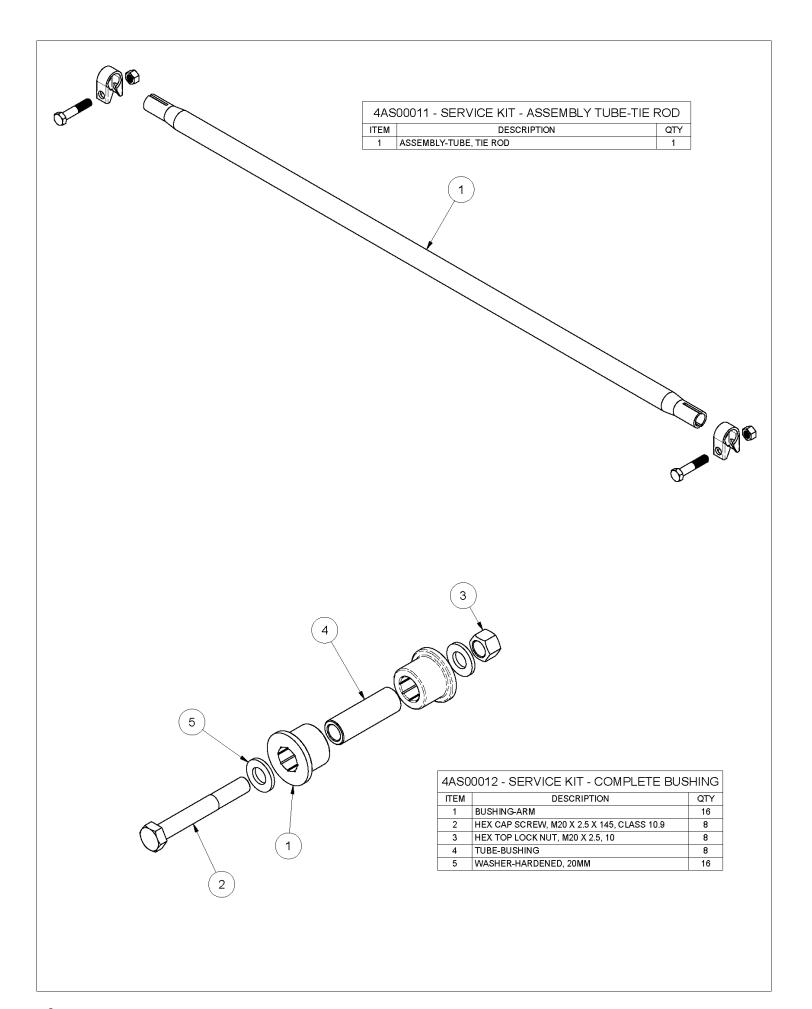
13.5K LIFT CHART		HEIGH ME MOI		6 1/2" (IT 8A00	0413	OR 8A0	00417)										
LOADED FRAME HEIGHT	29"	29 1/2"	30"	30 1/2"	31"	31 1/2"	32"	32 1/2"	33"	33 1/2"	34"	34 1/2"	35"	35 1/2"	36"	36 1/2"	37"	37 1/2"
TIRE RADIUS																		
15" (LOADED)	7"	7 1/2"	8"	8 1/2"	9"	9 1/2"												
16" (LOADED)			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 1/2"

SERVICE IT	EMS FOR 13.5K AUXILIARY SUSPENSION
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
4AS00017	SERVICE KIT - COMPLETE KINGPIN
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
4AS00034	SERVICE KIT - NUT-ZIP-TORQ. 1.50-12
4AS00035	SERVICE KIT - CAMSHAFT-LH
4AS00036	SERVICE KIT - CAMSHAFT-RH
4AS00037	SERVICE KIT - CHAMBER-BRAKE
4AS00038	SERVICE ASSEMBLY - AXLE-FABRICATED
4AS00039	SERVICE ASSEMBLY - KNUCKLE-MACHINED-LH
4AS00040	SERVICE ASSEMBLY - KNUCKLE-MACHINED-RH
4AS00041	SERVICE KIT - COMPLETE CAM BUSHING AND SEAL
4AS00042	SERVICE KIT - COMPLETE BRAKE
4AS00043	SERVICE KIT - SLACK ADJUSTER
4AS00044	SERVICE KIT - HUB PILOTED HUB
4AS00045	SERVICE KIT - BEARINGS AND SEALS
4AS00047	SERVICE KIT - DRUM
4AS00049	SERVICE KIT - WHEEL NUT

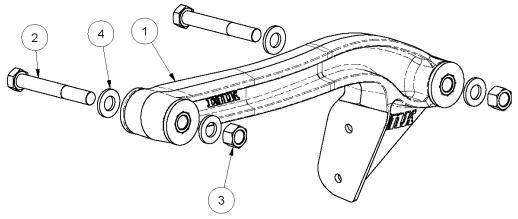




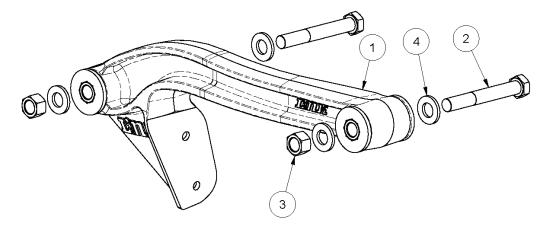




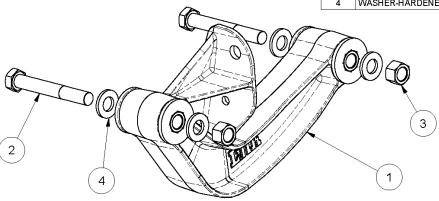
4AS	00013 - SERVICE KIT - UPPER ARM	1-LH
ITEM	DESCRIPTION	QTY
1	ARM ASSEMBLY-TRAILING, UPPER LH	1
2	HEX CAP SCREW, M20 X 2.5 X 145, CLASS 10.9	2
3	HEX TOP LOCK NUT, M20 X 2.5, 10	2
4	WASHER-HARDENED, 20MM	4

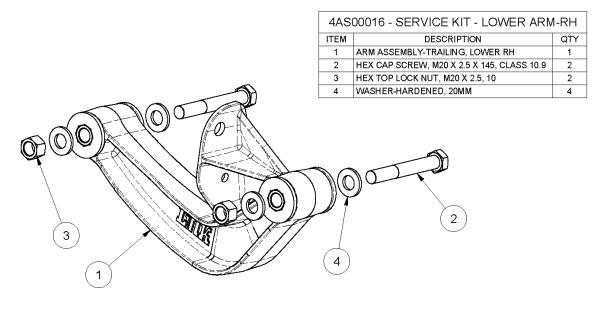


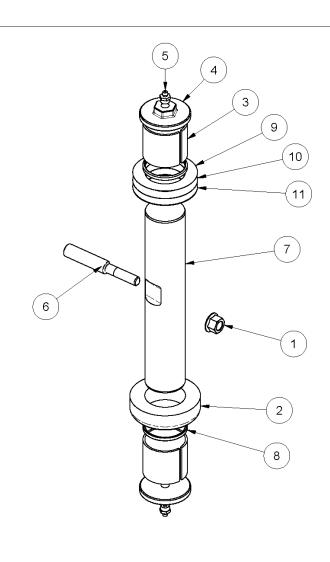
4AS	00014 - SERVICE KIT - UPPER ARM	1-RH
ITEM	DESCRIPTION	QTY
1	ARM ASSEMBLY-TRAILING, UPPER RH	1
2	HEX CAP SCREW, M20 X 2.5 X 145, CLASS 10.9	2
3	HEX TOP LOCK NUT, M20 X 2.5, 10	2
4	WASHER-HARDENED, 20MM	4



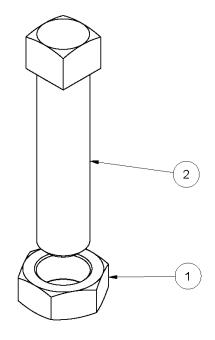
4AS	00015 - SERVICE KIT - LOWER ARM	Л-LH
ITEM	DESCRIPTION	QTY
1	ARM ASSEMBLY-TRAILING, LOWER LH	1
2	HEX CAP SCREW, M20 X 2.5 X 145, CLASS 10.9	2
3	HEX TOP LOCK NUT, M20 X 2.5, 10	2
4	WASHER-HARDENED, 20MM	4



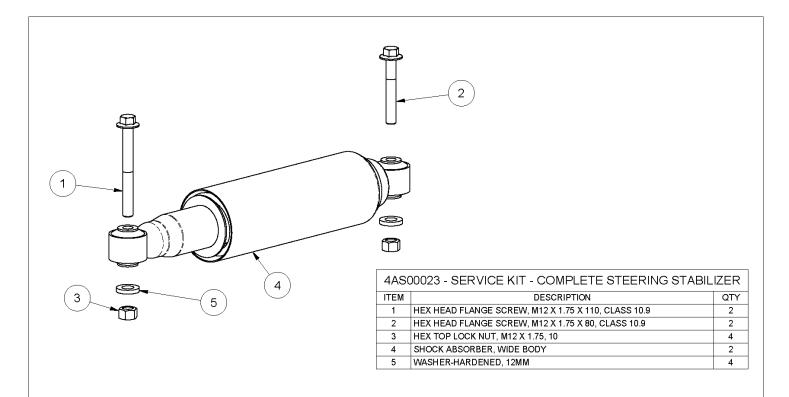




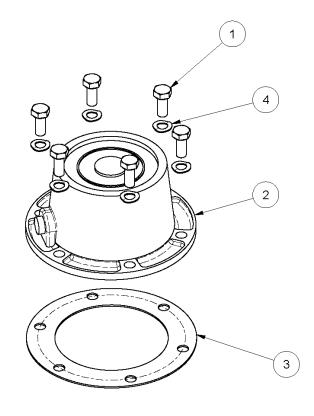
ITEM	DESCRIPTION	QTY
1	7/16 UNC HEX TOP LOCK FLANGE NUT, GRADE G	2
2	BEARING-THRUST	2
3	BUSHING-KNUCKLE	4
4	CAP-KING PIN	4
5	FITTING-GREASE, 1/8-27STR THD FORM	4
6	PIN-DRAW, LOCKING	2
7	PIN-KING, 13.5K (1.88)	2
8	SEAL-KNUCKLE	4
9	SHIM (.005)	2
10	SHIM (.010)	2
11	SHIM (.030)	2

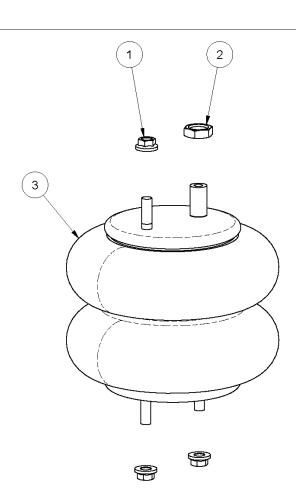


4AS	00022 - SERVICE KIT - STEERING STOP B	OLT
ITEM	DESCRIPTION	QTY
1	5/8 UNC HEX JAM NUT, GR 5	1
2	BOLT-STOP, STEERING, GEOMET	1



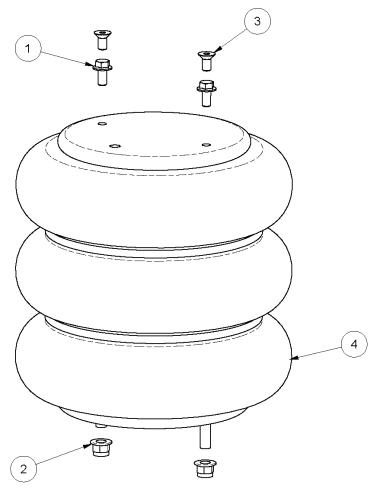
4AS0	4AS00029 - SERVICE KIT - HUB CAP ASSEMBLY	
ITEM	DESCRIPTION	QTY
1	5/16 X 7/8 UNC HEX CAP SCREW, GR 5	6
2	CAP-HUB, 6 HOLE, 4.5" B.C.	1
3	GASKET	1
4	WASHER-SPRING	6

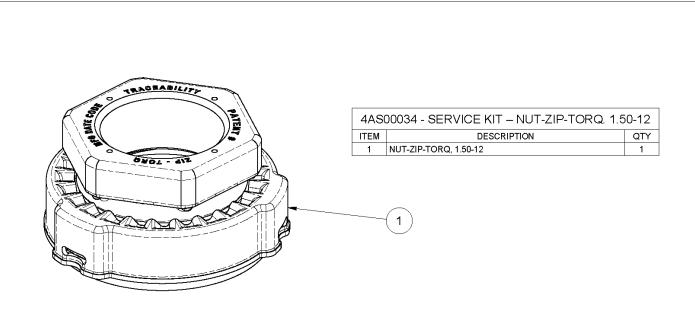


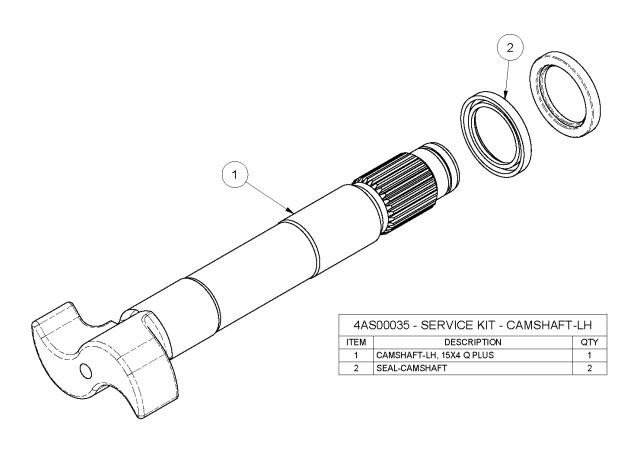


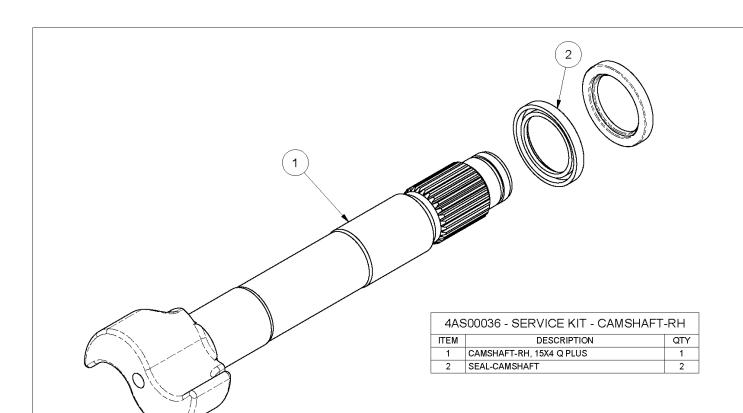
	4AS00032 - SERVICE KIT - LIFT SPRING		۱G
ı	ITEM	DESCRIPTION	QTY
	1	M12 X 1.75 SERRATED FLANGE NUT	3
	2	M20 X 1.5 JAM NUT	1
	3	SPRING-AIR	1

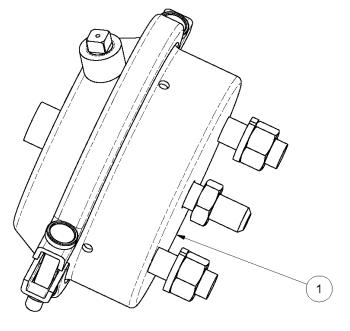




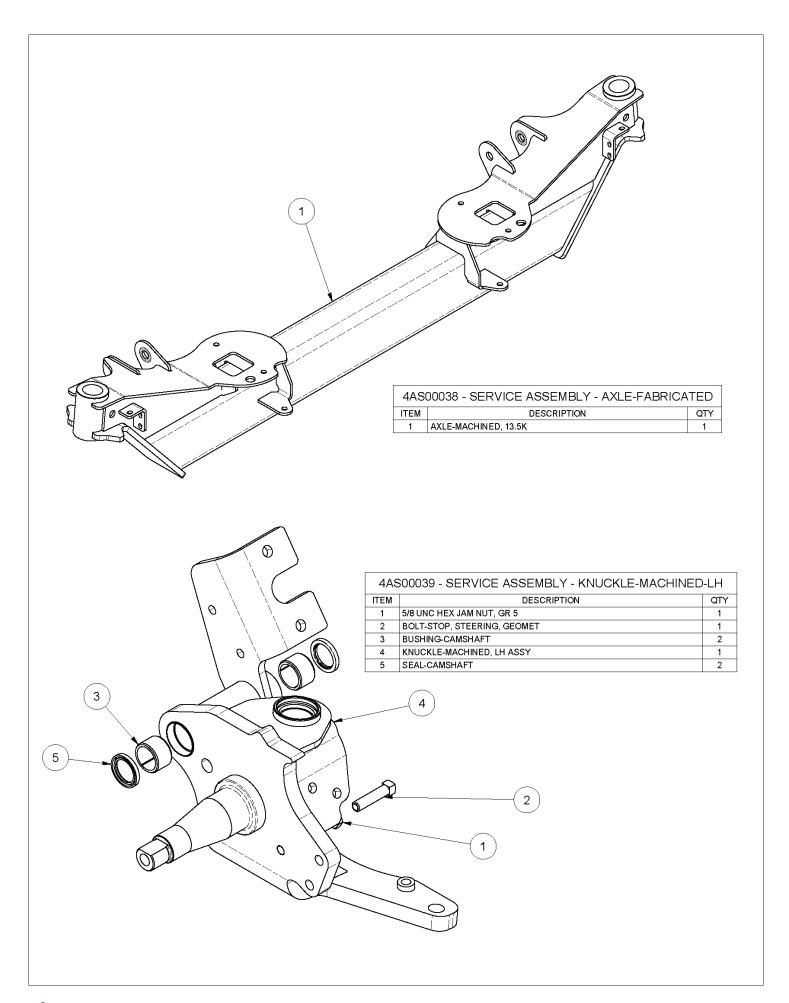


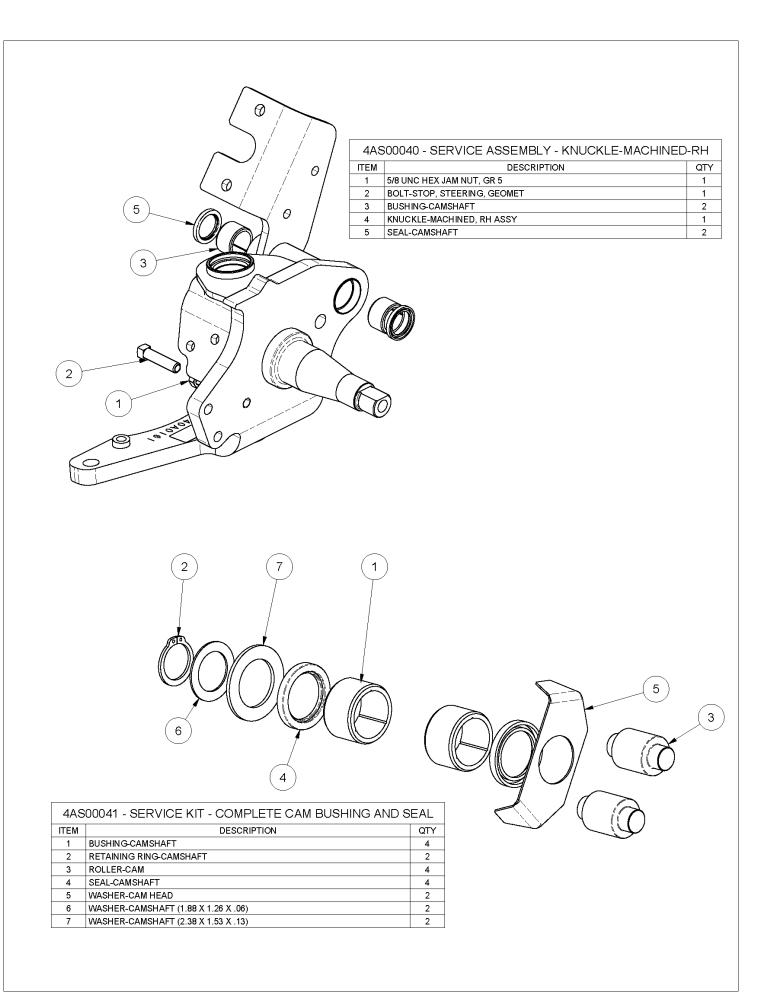


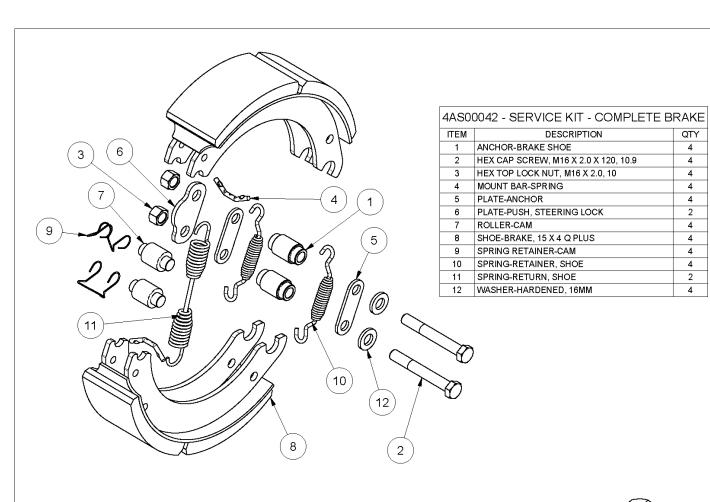




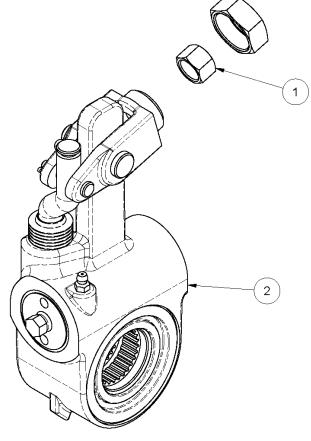
4AS00037 - SERVICE KIT - CHAMBER-BRAKE		RAKE
ITEM	DESCRIPTION	QTY
1	CHAMBER-BRAKE, TYPE 20	1

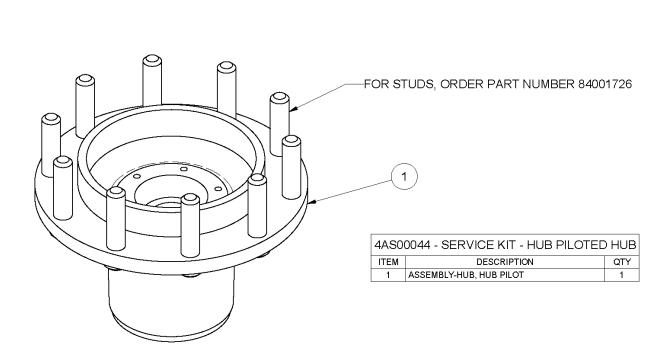


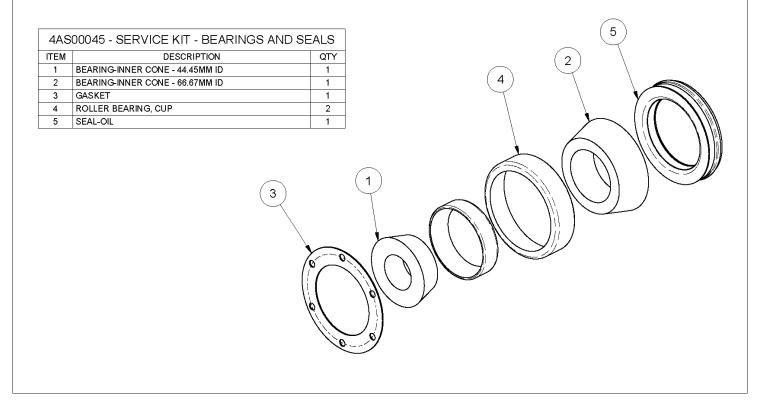


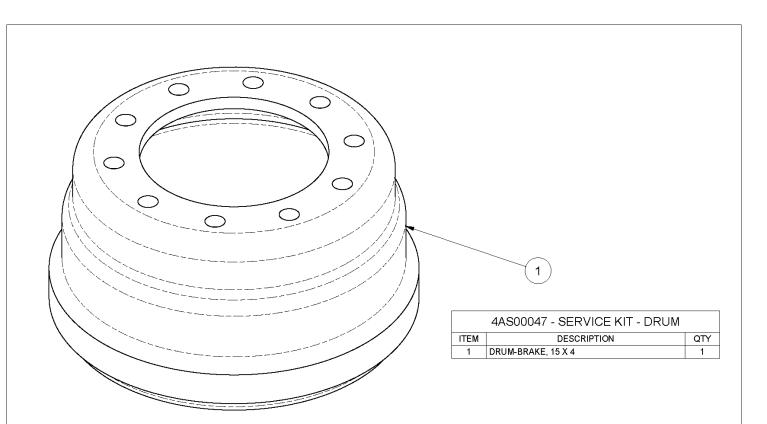


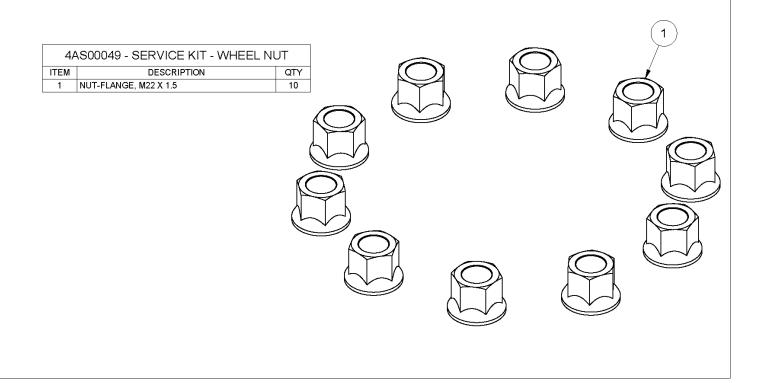
4AS00043 - SERVICE KIT - SLACK ADJUSTER		
ITEM	DESCRIPTION	QTY
1	KIT-CONNECTING, SLACK ADJUSTER	1
2	SLACK ADJUSTER-5 50	1











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: www.truckline.com/store

TMC RP 222C	User's Guide to Wheels and Rims
TMC RP 607B	Preventative Maintenance and Inspection of S-Cam Foundation Brakes
TMC RP 608B	Brake Drums and Rotors
TMC RP 609B	Self Adjusting and Manual Brake Adjuster Removal, Installation, and Maintenance
TMC RP 618A	Wheel Bearing Adjustment Procedure
TMC RP 622A	Wheel Seal and Bearing Removal, Installation, and Maintenance
TMC RP 631B	Recommendations For Wheel End Lubrication
TMC RP 644A	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 1503	Brake Maintenance Guidelines for Severe Vocational Applications
TMC RP 1515	Auxiliary Axle Maintenance Guidelines For Vocational Vehicles

