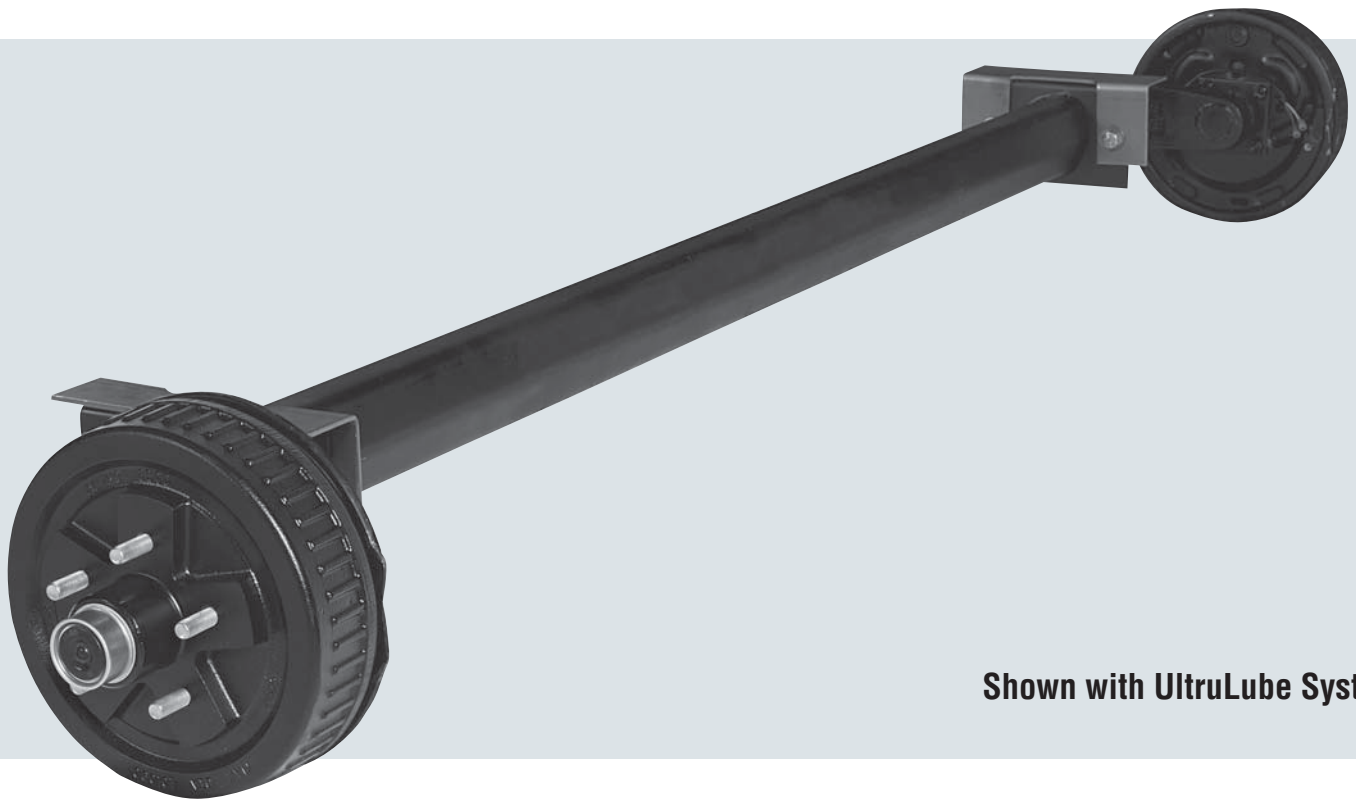


U-19 / U-29 / U-35 Axle Assembly

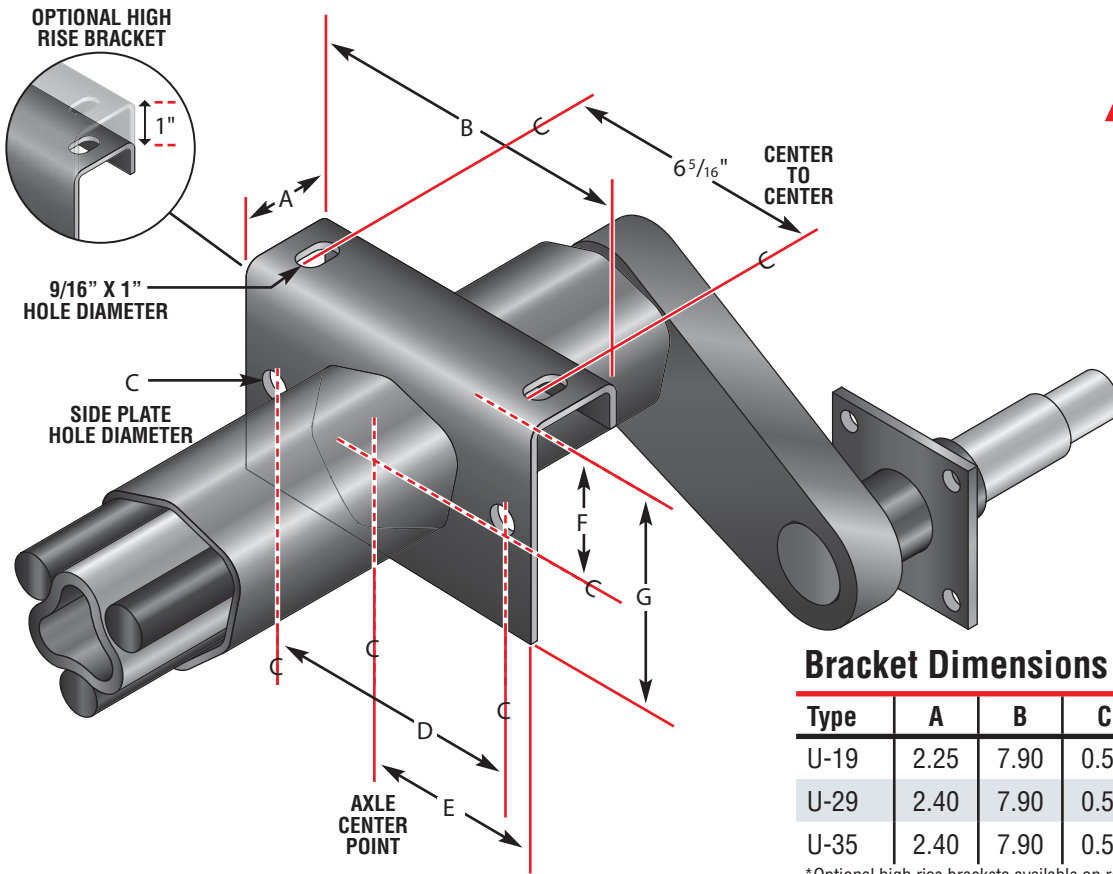
2,200 - 3,500 lb.



Shown with UltraLube System

The U-19, U-29 and U-35 axle utilize AL-KO's patented hexagonal design. This design consists of three rubber cords on each side of the axle assembly which are encased under pressure between the hexagonal outer tube and triangular inner tube. Every AL-KO axle is designed, manufactured and tested to meet your specific application.

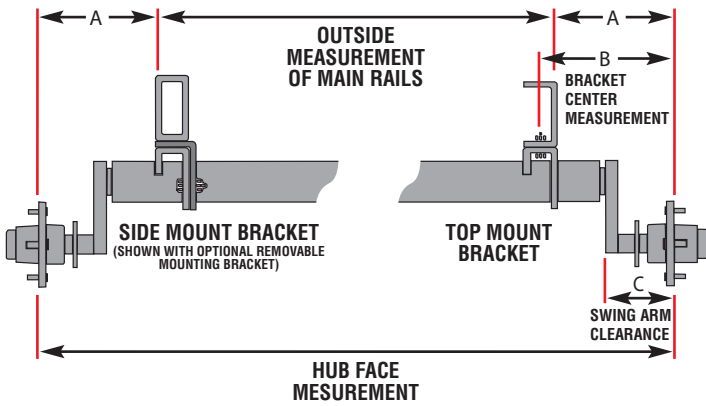
- ✓ 80mm outer axle tube - U19
- ✓ 97mm outer axle tube - U29 and U35
- ✓ Independent suspension - German engineered
- ✓ Various start angles allows precise trailer ride height
- ✓ Precision machined spindle with inner journal dimension of 1 3/8" and an outer journal dimension of 1 1/16"
- ✓ Double lipped spring loaded seals
- ✓ 10" x 2.25" available in 545, 5475, 550, 555, or 655 bolt pattern
- ✓ 10" x 1.75" Advanced Design available in 545 and 550 bolt patterns
- ✓ Integral cast hubs / drums CNC machined accuracy
- ✓ CSA approved 10" electric brake or choose optional hydraulic drum or disc brake
- ✓ Grease lubrication or the optional premium UltraLube System
- ✓ 2 year limited warranty on complete axle assembly
- ✓ 5 year limited warranty on Rubber Suspension System



Bracket Dimensions

Type	A	B	C	D	E	F*	G
U-19	2.25	7.90	0.56	6.30	3.95	2.63	4.20
U-29	2.40	7.90	0.56	6.30	3.95	2.63	5.10
U-35	2.40	7.90	0.56	6.30	3.95	2.63	5.10

*Optional high rise brackets available on request



Overhang Chart*

Type	Capacity Max	Min Hub Face	A**		B		C
			Min	Max	Min	Max	
U-19	2200	45.03	13.05	20.00	15.30	22.25	6.28
U-29	3000	48.97	13.05	24.00	15.30	26.25	6.28
U-35	3500	52.91	13.05	23.00	15.45	25.40	6.28

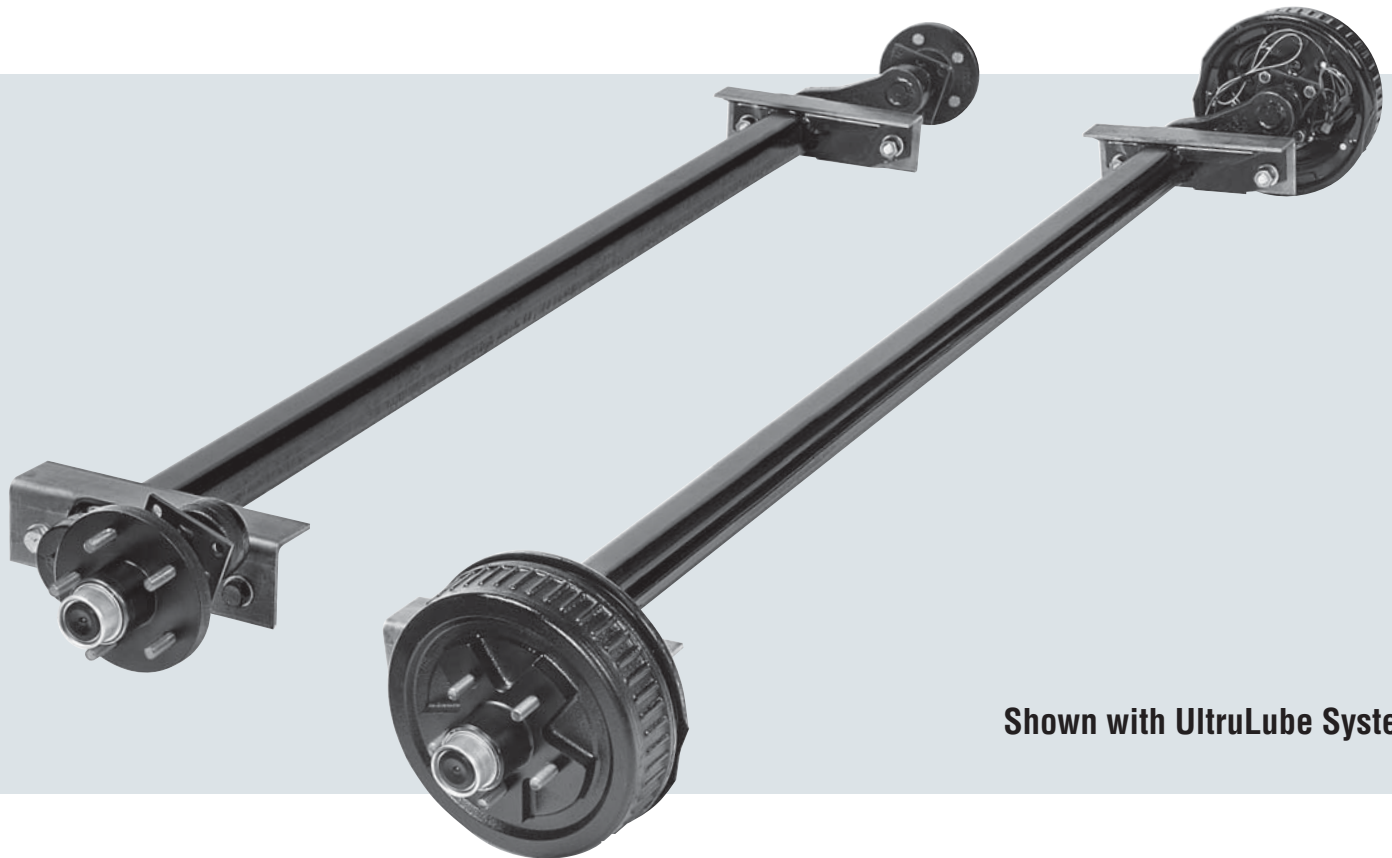
*Hub face measurements only available in 1/4" increments
 **Add 1" minimum for side mount brackets turned outward

Total Swing Arm Travel

Type	Start Angle	A			B		
		Unloaded	Rated Load	Shock Load	Unloaded	Rated Load	Shock Load
U-19	+40	5.8	3.8	2.4	4.5	5.6	5.9
	+25	4.5	2.0	0.5	5.3	5.9	5.6
	+10	3.0	0.6	(1.0)	5.8	5.7	5.0
	0	2.0	(0.4)	(1.8)	5.9	5.4	4.5
	-10	1.0	(1.3)	(2.5)	5.8	4.9	4.1
U-29	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	5.9
	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
	0	2.6	0.0	(1.5)	6.3	5.7	4.8
	-10	1.5	(0.9)	(2.2)	6.2	5.3	4.4
U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	5.9
	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
	0	2.6	0.0	(1.5)	6.3	5.7	4.8
	-10	1.5	(0.9)	(2.2)	6.2	5.3	4.4
U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	5.9
	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
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	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
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U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	5.9
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	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
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U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
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U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	5.9
	+10	3.7	1.1	(0.6)	6.2	6.1	5.3
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	-10	1.5	(0.9)	(2.2)	6.2	5.3	4.4
U-35	+40	6.6	4.5	3.0	4.8	5.9	6.3
	+25	5.3	2.6	0.9	5.7	6.3	

QF-35 Axle Assembly

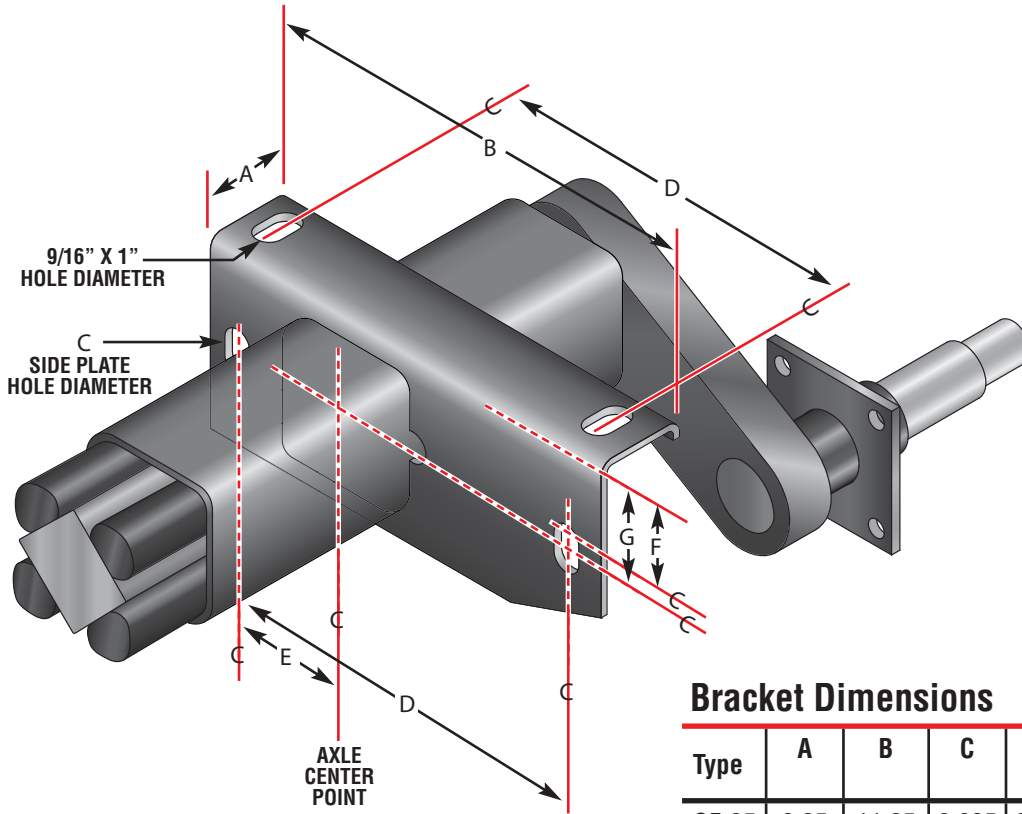
2,200 - 3,500 lb.



Shown with Ultralube System

The QF-35 Q-Flex axle utilizes a four rubber cord torsion design to provide a smooth, yet durable ride. The axle design consists of four rubber cords on each side of the axle assembly, which are encapsulated between a high strength square inner bar and square outer tube. Every AL-KO Q-Flex axle is designed, manufactured and tested to meet your specific application.

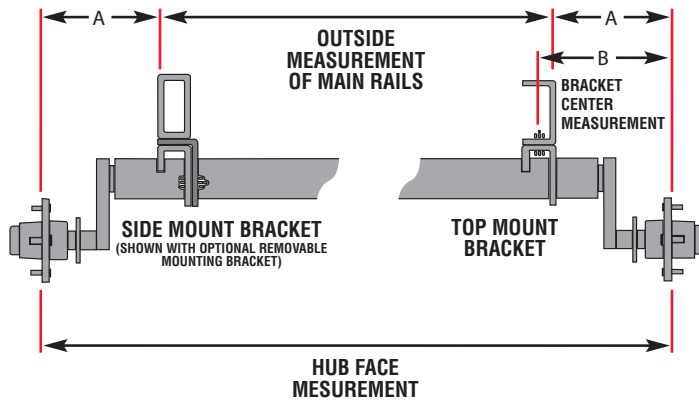
- ✓ Independent suspension
- ✓ Variety of start angles allow wider range of trailer ride height options
- ✓ Maximum ground clearance with low profile bracket design
- ✓ Double lipped spring loaded seals
- ✓ Precision machined spindle with inner journal dimension of 1 $\frac{3}{8}$ " and an outer journal dimension of 1 $\frac{1}{16}$ "
- ✓ Available in 545, 5475, 550, 555, or 655 bolt patterns
- ✓ 10" x 1.75" Advanced Design available in 545 and 550 bolt patterns
- ✓ Integral cast hubs / drums CNC machined accuracy
- ✓ CSA approved 10" electric brake or choose optional hydraulic drum or disc brake
- ✓ Grease lubrication or the optional premium Ultralube System
- ✓ 2 year limited warranty on complete axle assembly
- ✓ 5 year limited warranty on Rubber Suspension System



Bracket Dimensions

Type	A	B	C	D	E	F	G Low Profile	G High Profile
QF-35	2.25	11.25	0.625	9.120	4.25	2.00	1.56	2.31
QF-35	2.00*	10.00*	0.70*	8.00*	2.50*	1.62*	1.53*	—

* Optional Universal Bracket



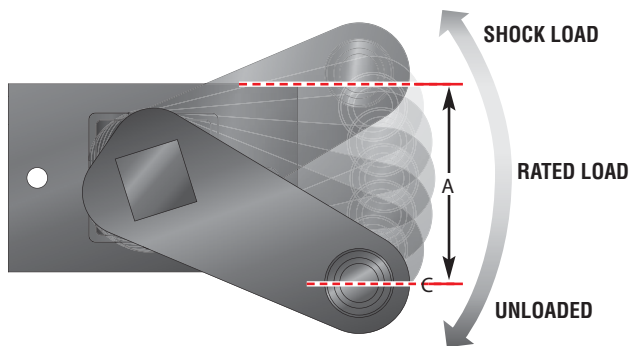
Overhang Chart*

Type	Capacity Max	Min Hub Face	A		B	
			Min	Max	Min	Max
QF-35	3500	49.00	13.00	26.00	15.25	28.25

* Hub face measurements only available in 1/4" increments

Total Swing Arm Travel

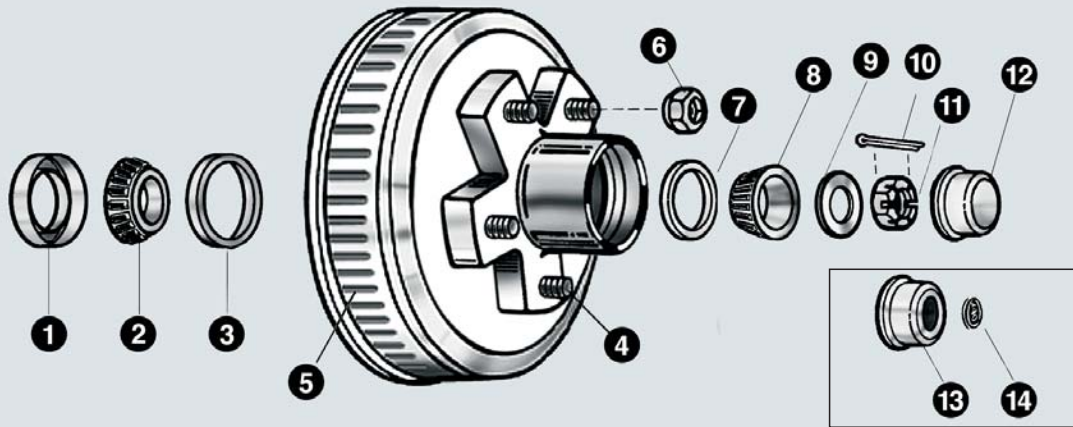
Type	Start Angle	A			B		
		Unloaded	Rated Load	Shock Load	Unloaded	Rated Load	Shock Load
QF-35	45 Down	5.81	4.06	2.06	6.56	4.81	2.81
	22.5 Down	3.62	1.56	(0.50)	4.37	2.31	0.25
	10 Down	2.56	0.56	(1.44)	3.31	1.31	(0.69)
	0	1.56	(0.50)	(2.32)	2.31	0.25	(1.57)
	10 Up	0.56	(1.19)	(2.69)	1.31	(0.44)	(1.94)
	22.5 Up	(0.50)	(2.07)	(3.44)	0.25	(1.32)	(2.69)



Service Replacement Parts

Advanced Design 10" x 1 3/4" Drum

2,200 - 3,500 lb.



Required with UL Spindle

Parts List

No.	Brake Part Description	AL-KO Part No.	Hayes Part No.	No.	Brake Part Description	AL-KO Part No.	Hayes Part No.
1	Grease Seal Double Lipped	568886	09103305	7	Outer Bearing Cup L44610	363913	093707
2	Inner Bearing Cone 68149	363192	093705	8	Outer Bearing Cone 44649	363180	093706
3	Inner Bearing Cup L68111	363914	093718	9	Spindle Washer 1" x 1 3/4" O.D.	363259	090509
4	Stud 1/2" - 20 x 2	1530092	—	10	Cotter Pin	363258	091901
5	Hub & Drum / Cups & Studs	—	—	11	Spindle Nut 1" - 14	363257	09060101
5A	5 on 4.5" Bolt Circle	1530189	—	12	Grease Cap	363182	092102
5B	5 on 5.0" Bolt Circle	1530190	—	13	Grease Cap (UL)	363277	09210104
6	Wheel Nut, 1/2" - 20 60° Cone	363203	090608	14	Rubber Plug (UL)	568067	09213611

WARNING:

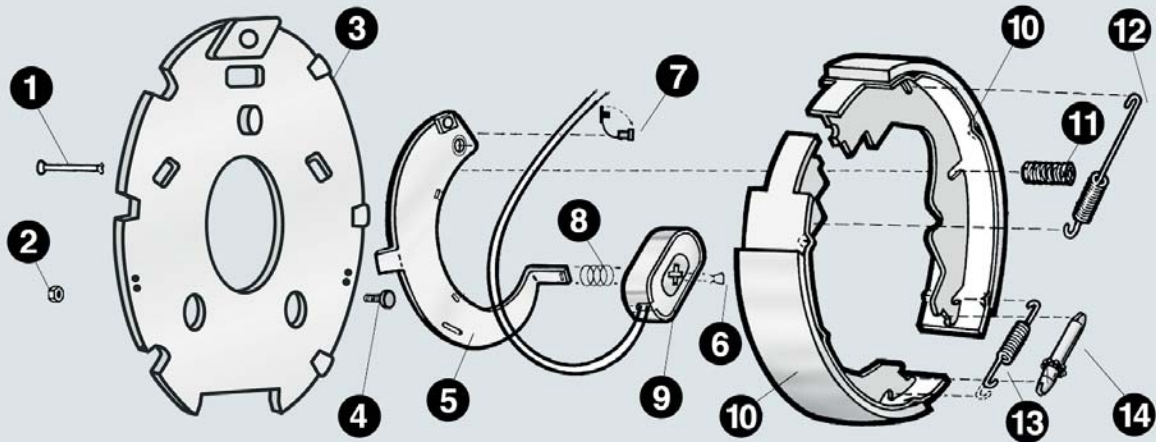
AL-KO Kober Corporation manufacture hubs and drums that are compatible with many wheels used in the trailer industry that have matching bolt patterns. AL-KO does not manufacture wheels, nor do they recommend a specific wheel for compatibility with the hubs and drums they manufacture. The wheel manufacturer should be contacted for proof of compatibility before use.

Service Replacement Parts

Advanced Design 10" x 1 3/4" Electric Brakes



2,200 - 3,500 lb.



Parts List

No.	Brake Part Description	AL-KO Part No.	Hayes Part No.	No.	Brake Part Description	AL-KO Part No.	Hayes Part No.
0	RH Brake Assembly Complete	1530116	—	8	Magnet Spring	568103	—
0	LH Brake Assembly Complete (Shown)	1530117	—	9	Magnet Assembly (Green Wire)	568119	—
1	Shoe Hold Down Pin	5785	—	10	Primary Shoe & Lining	1530114	—
2	Brake Mounting Nut 7/16" - 20	363312	—	11	Shoe Hold Down Cup & Spring	568093	—
3	Backing Plate Assembly	5050	—	12	Shoe Retract Spring	568097	—
4	Brake Mounting Stud (7/16" - 20)	1530112	—	13	Adjuster Screw Spring	568095	—
5	RH Lever Assembly	568121	—	14	Adjuster Screw Assembly	568110	—
5B	LH Lever Assembly (Shown)	568122	—	14B	Adjuster Screw Socket	568086	—
6	Clip, Wire & Magnet	568092	—		Magnet Wire Loom	568337	—
7	Strain Relief (Magnet Wire)	568090	—				

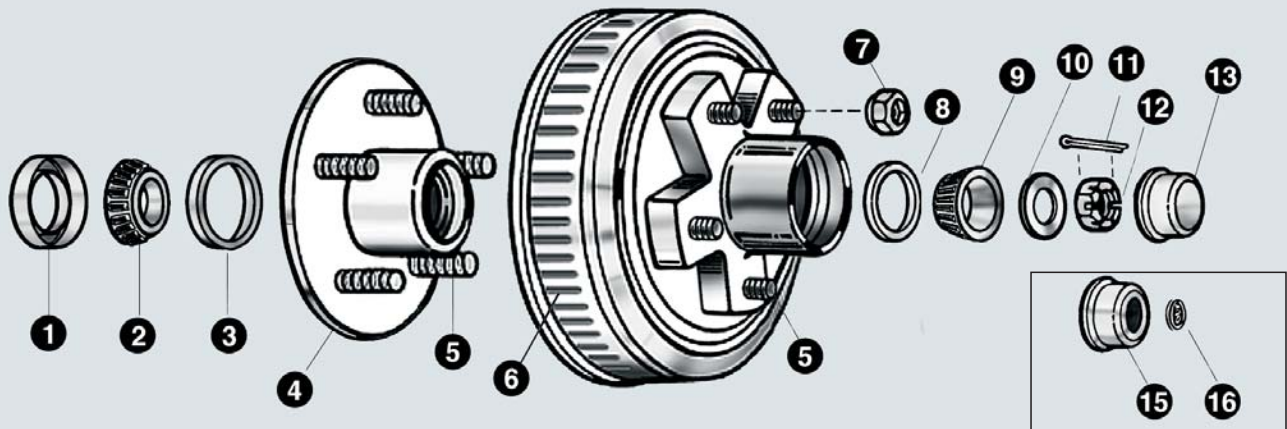
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Service Replacement Parts

10" x 2 1/4" Hub / Drum

2,200 - 3,500 lb.



Required with UL Spindle

Parts List

No.	Brake Part Description	AL-KO Part No.	Hayes Part No.	No.	Brake Part Description	AL-KO Part No.	Hayes Part No.
1	Grease Seal Double Lipped	568861	09103305	6B	5 on 4.75" Bolt Circle	363630	09080428
2	Inner Bearing Cone 68149	363192	093705	6C	5 on 5.0" Bolt Circle	363220	09080257
3	Inner Bearing Cup L68111	363914	093718	6D	5 on 5.5" Bolt Circle	363221	09080327
4	Idler Hubs w / Cups & Studs	—	—	6E	6 on 5.5" Bolt Circle	363222	09080367
4A	5 on 4.5" Bolt Circle	363191	09089137	7	Wheel Nut, 1/2" - 20 60° Cone	363203	090608
4B	5 on 4.75" Bolt Circle	363821	09080438	8	Outer Bearing Cup L44610	363913	093707
4C	5 on 5.0" Bolt Circle	363194	09080377	9	Outer Bearing Cone 44649	363180	093706
4D	5 on 5.5" Bolt Circle	363228	09080347	10	Spindle Washer 1" x 1 3/4" O.D.	363259	090509
4E	6 on 5.5" Bolt Circle	363195	09080357	11	Cotter Pin	363258	091901
5	Stud 1/2" - 20 x 2 (Zinc)	1530092	—	12	Spindle Nut 1" -14	363257	09060101
5A	Stud 1/2" - 20 x 1.81 Short Knurl	363908	09251510	13	Grease Cap	363182	092102
5B	Stud 1/2" - 20 x 1.81 Long Knurl	1530092	09251525	15	Grease Cap (UL)	363277	09210101
6	Hub & Drum / Cups & Studs	—	—	16	Rubber Plug (UL)	568067	09213611
6a	5 on 4.5" Bolt Circle	363219	09080607				

WARNING:

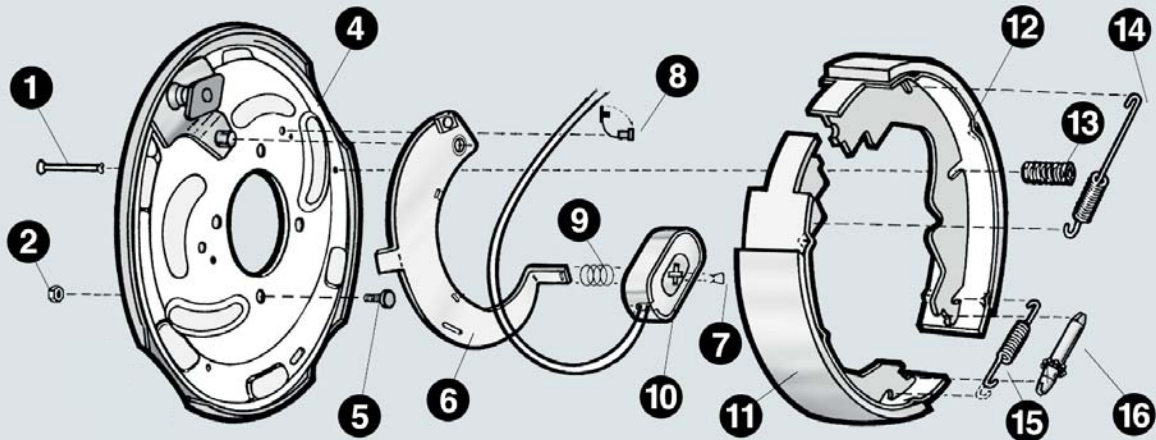
AL-KO Kober Corporation manufacture hubs and drums that are compatible with many wheels used in the trailer industry that have matching bolt patterns. AL-KO does not manufacture wheels, nor do they recommend a specific wheel for compatibility with the hubs and drums they manufacture. The wheel manufacturer should be contacted for proof of compatibility before use.

Service Replacement Parts

10" x 2 1/4" Electric Brake



2,200 - 3,500 lb.



Parts List

No.	Brake Part Description	AL-KO Part No.	Hayes Part No.	No.	Brake Part Description	AL-KO Part No.	Hayes Part No.
0	RH Brake Assembly Complete	363383.1	60202703	10	Magnet Assembly (Green Wire)	K568119	M144
0	LH Brake Assembly Complete (Shown)	363383.2	60202803	11	Primary Shoe & Lining	K568112	SL110
1	Shoe Hold Down Pin	568094	09661104	11	Primary Shoe & Lining (Parking Brake)	568173	—
2	Brake Mounting Nut $\frac{7}{16}$ " - 20	363312	090616	12	Secondary Shoe & Lining	K568112	SL110
4	Backing Plate Assembly	—	—	12	Secondary Shoe & Lining (Parking Brake)	568174	—
5	Brake Mounting Stud ($\frac{7}{16}$ " - 20)	363900	090762	13	Shoe Hold Down Cup & Spring	568093	10443
6	RH Lever Assembly	568121	60283001	14	Shoe Retract Spring	568097	09650603
6	LH Lever Assembly (Shown)	568122	60282901	15	Adjuster Screw Spring	568095	096526
7	Clip, Wire & Magnet	568092	09680815	16	Adjuster Screw Assembly	568110	60272401
8	Strain Relief (Magnet Wire)	568090	092715	16	Adjuster Screw Socket	568086	60272801
9	Magnet Spring	568103	096522		Magnet Wire Loom	568337	

WARNING:

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