



# TRAILER AXLE – AIR DISC BRAKE (ADB) ORDER GUIDE

Complete both pages, sign form and submit to Ridewell Customer Service.  
CustomerService@ridewellcorp.com Fax: (417) 833-4560

Contact:		Email/Phone:	
Note:			

☐ Requires Generic Parking Brake CMVSS-121/TSD-121 S5.6.1 (Ridewell Engineering Dept. approval required)

SUSPENSION TYPE ☐ Air-Ride ☐ Mechanical (Spring) AXLE TRACK WIDTH ☐ 71.5" ☐ 77.5" ☐ Other: \_\_\_\_\_

BEAM SELECTION (Choose suspension application on page two)		5" – Standard Axle Wall Thickness/Beam Rating		5.75" – Large Diameter Axle Wall Thickness/Beam Rating	
SPINDLE TYPE	BRAKE CALIPER OPTIONS	.591"	.749"	.335"	.394"
(P) Parallel Spindle	Bendix® ADB22X™; ADB22X-LT™ Haldex® DBT22LT™	<input type="checkbox"/> 23K	<input type="checkbox"/> 25K	<input type="checkbox"/> 23K	<input type="checkbox"/> 25K
	Wabco PAN™ 19	N/A	<input type="checkbox"/> 25K	<input type="checkbox"/> 23K	N/A
(N) Tapered Spindle	Wabco PAN™ 17	<input type="checkbox"/> 23K	N/A		

## HUB AND ROTOR – SELECT ONE (All hubs shipped with long studs for aluminum wheels)

<b>Bendix ADB22X; ADB22X-LT; Haldex DBT22LT™</b> <input type="checkbox"/> WEMC® Lightweight (ADI)–RW STD <input type="checkbox"/> ConMet® Lightweight (Alum) <input type="checkbox"/> Webb® (Ductile Iron) <input type="checkbox"/> ConMet PreSet® Plus (Alum)	<b>PAN™ 19</b> <input type="checkbox"/> Ridewell (Ductile Iron)	<b>PAN™ 17</b> <input type="checkbox"/> KIC™ (Ductile Iron)
<b>Hub Style:</b> Hub Pilot: 10-Stud x 11.25"BC	Hub Pilot: 8-Stud x 10.83"BC	

## OPTIONS

<b>BRAKE</b> (Select one) <input type="checkbox"/> Spring Brake <input type="checkbox"/> Service Brake Only	<b>ABS SENSOR</b> <input type="checkbox"/> Yes (Tone rings standard)
<b>SEAL</b> <input type="checkbox"/> STEMCO Guardian® HP (Ridewell Standard) <input type="checkbox"/> National Gold PTFE (Required on PAN™ 17)	
<b>DUST SHIELDS</b> <input type="checkbox"/> Rotor Shields (Required on Wabco) <input type="checkbox"/> Pad Shields (Available on Bendix® ADB22X™ only)	
<b>HUB LUBRICATION</b> <input type="checkbox"/> 80/90 Gear Oil (Ridewell Standard) <input type="checkbox"/> SYN Oil (75W-90) <input type="checkbox"/> SYN Semi-Fluid Grease <input type="checkbox"/> No Lube (Ship dry with Oil Hubcap)	
<b>MISCELLANEOUS</b> <input type="checkbox"/> Cambered Axle <input type="checkbox"/> STEMCO Zip-Torq® Nut	

## AUTOMATIC TIRE INFLATION SYSTEM (ATIS) (Select axle preparation procedure and provide required information)

<input type="checkbox"/> No ATIS	<b>Axle Prep</b> <input type="checkbox"/> Basic 1-Hole <input type="checkbox"/> Basic 3-Hole <input type="checkbox"/> P.S.I. ThermALERT™
<b>Wheel Data</b> <input type="checkbox"/> Single Wheel <input type="checkbox"/> Dual Wheel	<b>Wheel Size</b> <input type="checkbox"/> 17.5" <input type="checkbox"/> 19.5"-to-24.5"
<b>Number of Axles</b> <input type="checkbox"/> Single Axle <input type="checkbox"/> Tandem Axle <input type="checkbox"/> Tri-Axle	

## NOTES:

1. An approved disc brake application for primary trailer axles utilizing Wabco disc brakes must be on file at Ridewell Suspensions. Complete, sign and submit "New Application" form if application is not listed in "Approved Applications".
2. Use only wheels and valve stems that provide the proper running clearance with disc brakes that are equipped with the suspension. The vehicle manufacturer shall ensure that proper wheels and valve stems are installed.
3. It is important to ensure the compatibility of the disc brake systems between the tractor/trailer. Changes to the tractor may be required to produce a balanced combination braking system. Operators should review any required changes with the tractor manufacturer to prevent premature wear of the tractor/trailer components. Premature wear of components is not covered under Ridewell warranty by manufacturer failure to ensure tractor/trailer compatibility or for improper operation and maintenance of the suspension.
4. Contact Ridewell Warranty Department at (417) 833-4565 Ext. 135 for complete warranty information.

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**OPTION 1 — APPROVED APPLICATIONS:** Select desired application; sign form and submit with completed Page One.

Bendix®		Tire SLR	GAWR (lbs)	All Applications (except Dolly Application)						
<input type="checkbox"/> ADB22X™		18.5"-21.5"	23K							
<input type="checkbox"/> ADB22X™		18.5"-21.5"	20K							
<input type="checkbox"/> ADB22X-LT™		17.5"-20.8"	23K							
<input type="checkbox"/> ADB22X-LT™		17.5"-20.8"	20K							
Haldex®		Tire SLR	GAWR (lbs)							
<input type="checkbox"/> DBT22LT™		17.5"-20.8"	23K							
<input type="checkbox"/> DBT22LT™		17.5"-20.8"	20K							
Wabco PAN™ 19	APP #	Tire SLR	GAWR (lbs)	GVWR (lbs)	Vehicle-Wt Empty (lbs)	# of Axles	Wheel Size	Track Width	% On-Hwy	% Off-Hwy
<input type="checkbox"/> Car Hauler	2-054	17" to 19.3"	20K	40K	14K	2	19.5"	71.5" or 77.5"	100	0
<input type="checkbox"/> Car Hauler	2-087	15.7"	15K	45K	6.1K	2-3	19.5"	71.5" to 96"	100	0
<input type="checkbox"/> Car Hauler	2-061	17" to 15.4"	20K	40K	14K	2	19.5"	71.5" to 96"	100	0
<input type="checkbox"/> Car Hauler	2-078	16.3"	20K	40K	8.86K	2	19.5"	71.5" to 96"	100	0
<input type="checkbox"/> Car Hauler	2-086	15.7"	20K	40K	8.86K	2	19.5"	71.5" to 96"	100	0
<input type="checkbox"/> Heavy Haul	2-056	17" to 19.3"	20K	40K	16K	2-3	19.5" to 22.5"	32" to 40"	90	10
<input type="checkbox"/> Dump/Pup Trailer	2-105	19.8"/15.79"/19.8"	15K/13.5K/15K	43K	10K	3	19.5" to 22.5"	71.5" to 96"	100	0
Wabco PAN™ 17	APP #	Tire SLR	GAWR (lbs)	GVWR (lbs)	Vehicle-Wt Empty (lbs)	# of Axles	Wheel Size	Track Width	% On-Hwy	% Off-Hwy
<input type="checkbox"/> Heavy Haul	2-072	14.6"-15.6"	15K	45K	6.1K	2 - 3	17.5"	71.5" to 96"	80	20
<input type="checkbox"/> Heavy Haul	2-057	12.5" to 15.4"	20K	60K	18K	2 - 3	17.5"	71.5" to 96"	80	20
<input type="checkbox"/> Heavy Haul	2-089	14"	20K	47.8K	7.8K	2 - 3	17.5"	71.5" to 96"	80	20
<input type="checkbox"/> Heavy Haul/Jeep (Stub Axle)	2-067	12.5" to 15.4"	20K	60K	18K	2 - 3	17.5"	28" to 42"	80	20
<input type="checkbox"/> Heavy Haul (Spring Ride)	2-081	14.5"	20K	85K	12K	2 - 3	17.5"	Undefined	80	20
<input type="checkbox"/> Camper/RV Transport Trailer	2-092	14.5"	16K	16K	14.5K	1	17.5"	71.5" to 96"	95	5

**OPTION 2 — APPROVED APPLICATION NOT AVAILABLE:** Complete information below, sign and submit with completed Page One.

Enter short description for type of trailer (Heavy Haul; Line Haul; Car Hauler; etc.)					
Tire Size: (Range of sizes if more than one size)		Tire Static Load Radius (SLR): (Provide range if more than one)			
Equipped with Anti-Lock Braking System (ABS)? <input type="checkbox"/> YES		Equipped with Electronic Braking System (EBS)? <input type="checkbox"/> YES		On-Hwy Usage? %	Off-Hwy Usage? %
Minimum Mass – Unladen Trailer (lbs)		Max. ground load on axle one (lbs)		<input type="checkbox"/> Spring Brake <input type="checkbox"/> Service Brake Only	
Maximum Mass – Laden Trailer (lbs)		Max. ground load on axle two (lbs)		<input type="checkbox"/> Spring Brake <input type="checkbox"/> Service Brake Only	
Distance from the ground to the center of gravity of laden trailer (inches)		Max. ground load on axle three (lbs)		<input type="checkbox"/> Spring Brake <input type="checkbox"/> Service Brake Only	
Distance from the kingpin to the center of axle set (inches)		Max. ground load on axle four (lbs)		<input type="checkbox"/> Spring Brake <input type="checkbox"/> Service Brake Only	
Provide axle layout/sketch of trailer <input type="checkbox"/> Separate page(s) attached					
REQUESTER: (Authorized Contact Person)		Contact Title			
Requester Signature:				Date:	

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