

Cleveland Wheels & Brakes
Directory AWBPCKD0001-6/USA

Cleveland
Wheels & Brakes

Tech Support 1-800-BRAKING 1-800-272-5464 clevelandwbhelp@parker.com



Revision Highlights

Issue 6, dated January 10, 2016

Page Description of Change

6 Beechcraft, 199-110:

(add) ANAC STC 2015S11-17 for listed models.





- STOP -

SOME CONVERSION KITS SUPPORT NUMEROUS MODELS OF AIRCRAFT TOGETHER WITH THE VARIOUS MOUNTING AND ROUTING CONFIGURATIONS OF EQUIPMENT BEING REPLACED. THEREFORE, SOME KITS WILL NOT INCLUDE THE HARDWARE NEEDED TO COMPLETE THE INSTALLATION. THIS HARDWARE MUST BE PURCHASED SEPARATELY.

Note!

Unless otherwise noted, listed Wheels and Brakes are FAA TSO C26 Approved.

For a product to be TSO qualified, it has to have successfully demonstrated its ability to meet minimum performance standards in accordance with FAA recognized rating methods. The TSO approval of a product does not constitute installation approval or applicability on an FAA Type Certificated Aircraft. It is the responsibility of those installing these products to determine that the aircraft installation and its wheel and brake performance requirements are compatible for the TSO ratings of the wheel and brake. TSO approved products must have separate approval for installation in a FAA type certificated aircraft. TSO Approved Products may be installed only if performed under Title 14 CFR Part 43 or the applicable airworthiness requirements.

Prior to installing kits, please verify that the wheel and brake assembly numbers as listed match the model numbers as indicated on the nameplates.

For quick reference, disc and lining part numbers are listed in the directory. Manufacturers and aircraft are listed alphabetically with models listed numerically. Actions affecting a particular kit will be noted below each applicability data table.

Refer to the Cleveland Wheels & Brakes Product Catalog, AWBPC0001, for a complete parts breakdown of the specific part assembly. The Product Catalog parts breakdown will also contain additional information such as superseding equipment, applicable upgrades and other pertinent information.

For technical assistance, contact the TECHNICAL SERVICES HOTLINE: clevelandwbhelp@parker.com
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Notes	Product Conversion Kit Directory





Applicability Data

Conversion Kit - Single Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Тур
Aero Commander								
Lark 100-180	199-188	6.00-6	40-86A	164-02000	164-12000	30-56F	066-10500	0
		Installation per	FAA STC SA16	635GL.				
Ayres								
S-2R (Thrush)	199-68A	29 x 11.00-10	40-133	N/A	164-05806	30-98A	066-10800	0
			lus 27" W & B. ncludes hydraul				utomotive Brak	e Flui
Beechcraft								
A-23,19, 19A, M19A, B19	199-124 (1)	6.00-6	40-113C	164-04300	164-14300	30-75B	066-10500	0
A-23,19, 19A, M19A, B19 (S/N MB-1 thru MB-521), 23, A23, A23A, B23, C23 (S/N M-2 thru M1361), A23-24, A24 (S/N MA-1 thru MA-268),	199-124 (1)		40-113C FAA STC SA7					
A-23,19, 19A, M19A, B19 (S/N MB-1 thru MB-521), 23, A23, A23A, B23, C23 (S/N M-2 thru M1361), A23-24, A24 (S/N MA-1 thru MA-268), A24R (S/N MC-2 thru MC-97) 35, A35, B35, C35, D35, E35, F35, G35, 35R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A,	199-124 (1)	Installation per						
Beechcraft A-23,19, 19A, M19A, B19 (S/N MB-1 thru MB-521), 23, A23, A23A, B23, C23 (S/N M-2 thru M1361), A23-24, A24 (S/N MA-1 thru MA-268), A24R (S/N MC-2 thru MC-97) 35, A35, B35, C35, D35, E35, F35, G35, 35R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33A, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, A36		Installation per hardware. 6.00-6 7.00-6 Installation per	FAA STC SA7	18GL. Kit also 164-02504 IGL. Kit also ir	includes axle s	spacers and wa	066-10500	unting
A-23,19, 19A, M19A, B19 (S/N MB-1 thru MB-521), 23, A23, A23A, B23, C23 (S/N M-2 thru M1361), A23-24, A24 (S/N MA-1 thru MA-268), A24R (S/N MC-2 thru MC-97) 35, A35, B35, C35, D35, E35, F35, G35, 35R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33A, F33, F33A, F33C, G33, H35, J35, K35,		Installation per hardware. 6.00-6 7.00-6 Installation per	FAA STC SA7	18GL. Kit also 164-02504 IGL. Kit also ir	includes axle s	spacers and wa	066-10500	

Cessna

120, 140 (S/N 8004 thru 13399),	199-46 (1)	6.00-6	40-97A	164-02601	164-12601	30-63A	066-10500	0			
120, 140, 140A (S/N 13400 & up), 170, 170A, 170B, 172, 172A thru 172E, 175, 175A, 175B, 175C, P172D, 180, 180A thru 180F, 182, 182A thru 182G.		Converts Goodyear to Cleveland; Cannot be used with crosswind landing gear. Installation per FAA STC SA13GL.									
180, 180A thru 180H, 180J, 180K,	199-62 (1)	8.00-6	40-75D	164-03601	164-13601	30-52N	066-10500	0			
185, 185A thru 185E, A185E, A185F, 206, P206, U206, U206F, U206G, TU206E, TU206F, TU206G			is not a replace		auley. The 199	9-62 kit may no	t work with whe	el			
	199-62A (1)	8.00-6	40-75AA	164-08300	164-18300	30-52N	066-10500	0			
					ssna Axle P/N 0541124 and 1441003-1. Not for use on nding gear. Installation per FAA STC SA63GL.						
180, 180A thru 180F, 180H, 180J, 185, 185A, 185B, A185E, A185F,	199-60 (1)	6.00-6 15 x 6.00-6	40-75B	164-01501	164-11501	30-52	066-10500	0			
206E, 206F, TU206E, TU206F, 210, 210A, 210B, 210C, 210K, 210L, 210M, T210C, T210K, T210L, T210M		This kit is to be used only with Cessna Axles P/N 0541124 and 1441003-1. Not for use or aircraft equipped with crosswind landing gear. Installation per FAA STC SA52GL and SA6									
P210N (S/N P21000001 thru P21000150)	199-60A (1)	6.00-6	40-75B	164-01501	164-11501	30-52U	066-10500	0			
		Installation per FAA STC SA52GL.									
190, 195, 195A, 195B	199-61	6.50-10	40-40C	164-00806	N/A	30-28C	066-03300	М			
			or use on aircra Kit also includ			ınding gear. In:	stallation per FA	AΑ			

⁽¹⁾ Also available with chrome plated brake discs. To order, specify kit number followed by "CHROME".





Applicability Data

Conversion Kit - Single Engine

Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
deHavilland	·		,	'				
Chipmunk DHC-1-21, -22, -22A	199-79 (1)	6.00-6	40-97D	164-02601	164-12601	30-63P	066-10500	0
DHC-1B-2-S3, -S5						cludes axle spa	acers and mour	
Beaver DHC-2 Mk.I, Mk II, Mk. III	199-95	8.50-10	40-134	164-06306	N/A	30-99	066-06600	М
		Installation per fitting and mou			adian STA SAS	00-1. Kit also ir	ncludes brake in	nlet
(1) Also available with chrome plated brake d	scs. To order, sp	ecify kit number f	ollowed by "Ch	IROME".				
Ercoupe								
E, G, 415-C, 415-D & 415-CD (S/N 813 & up)	199-69	6.00-6	40-41	164-00300	N/A	30-30	066-10500	0
ERCO FORNEY F-1, F-1A		Installation per	FAA STC SA1	20GL, SA1270	GL.	1	'	
Globe Swift		1						
GC1A, GC1B	199-48 (1)	6.00-6	40-113C	164-04300	164-14300	30-79B	066-10500	0
		Installation per	FAA STC SA2	⊥ 2GL. Kit also in	ıcludes axle sp	acers.		
Navion A, B, D, E, F, G, H	199-52	7.00-8 (main) 6.00-6 (nose)	40-98D (main) 40-76B	164-02701	N/A	30-66B	066-11000	0
	199-52	6.00-6 (nose) Main and Nose	(main) 40-76B (nose) e wheel. Instal	lation per FAA	STC SA36GL.	Kit also includ	066-11000 es NLG and MI	
A, B, D, E, F, G, H		Main and Nose axle spacers, o	(main) 40-76B (nose) e wheel. Instal dust shield and	lation per FAA hardware, and	STC SA36GL.	Kit also includ	es NLG and MI	LG
	199-52 199-52A	Main and Nose axle spacers, of 7.00-8	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F	lation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hosi	Kit also includes.		LG O
A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F	lation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hosi	Kit also includes.	es NLG and MI	LG O
A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F	lation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hosi	Kit also includes.	es NLG and MI	LG O
A, B, D, E, F, G, H A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F	lation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hosi	Kit also includes.	es NLG and MI	LG O Id and
A, B, D, E, F, G, H A, B, D, E, F, G, H Pilatus	199-52A	Main and Nose axle spacers, of 7.00-8 Mains only. In hardware, and	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F hydraulic hose 40-424 (1)	lation per FAA hardware, and 164-02701 AA STC SA460 es. 159-07400 (rotor disc) 11376CH, EAS,	STC SA36GL. I hydraulic hose N/A GL. Kit also inc	Kit also includes. 30-66B Cludes axle spa	es NLG and MI 066-11000 acers, dust shie	LG O Id and
A, B, D, E, F, G, H A, B, D, E, F, G, H Pilatus PC-12, PC-12/45, PC-12/47, PC-12/47E	199-52A	Main and Nose axle spacers, of 7.00-8 Mains only. In hardware, and 8.50-10 Installation per	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F hydraulic hose 40-424 (1)	lation per FAA hardware, and 164-02701 AA STC SA460 es. 159-07400 (rotor disc) 11376CH, EAS,	STC SA36GL. I hydraulic hose N/A GL. Kit also inc	Kit also includes. 30-66B Cludes axle spa	es NLG and MI 066-11000 acers, dust shie 109-04000 (wear pad)	LG O Id and
A, B, D, E, F, G, H A, B, D, E, F, G, H Pilatus	199-52A	Main and Nose axle spacers, of 7.00-8 Mains only. In hardware, and 8.50-10 Installation per	(main) 40-76B (nose) e wheel. Instal dust shield and 40-98D stallation per F hydraulic hose 40-424 (1)	lation per FAA hardware, and 164-02701 AA STC SA460 es. 159-07400 (rotor disc) 11376CH, EAS,	STC SA36GL. I hydraulic hose N/A GL. Kit also inc	Kit also includes. 30-66B Cludes axle spa	es NLG and MI 066-11000 acers, dust shie 109-04000 (wear pad)	LG O Id and





Applicability Data

Conversion Kit – Single Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Stinson								
108 Series	199-87 (1)	7.00-6	40-97D	164-02601	164-12601	30-63Q	066-10500	0
			ble only from Ur es mounting ha			nstallation per U	Jnivair TC appr	oval.
(1) Also available with chrome plated brake	disc. To order, spe	ecify kit number,	followed by "CH	IROME".				
Univair Aircraft Corporatio	n							
Refer to the Univair Aircraft Aircraft	199-231		40-84	164-01900	N/A	30-41B	066-10600	0
Corporation Master Eligibility List.		Hannifin, Aircr Corporation. F	d brake kit has l aft Wheel and E Parker Hannifin, this equipment.	Brake. Aircraft	eligibility is the	sole responsib	oility of Univair	Aircraft





Applicability Data

Product Conversion Kit Directory Conversion Kit – Twin Engine

D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, TC-45G, RC-45J, C-45H, TC-45J, JRB-6, 3N, 3NM, 3TM	199-127											
C45G, TC-45G, RC-45J, C-45H, TC-45H,	199-127											
TC-45J, JRB-6, 3N, 3NM, 3TM	199-127	8.50-10 8 or 10 ply	40-170	164-20900	N/A	30-144B	066-09000	М				
		Applicable to Tricycle landing gear with 10" main wheel & brake. Installation per FAA STC SA788GL. Kit also includes mounting hardware and aluminum fillers for gear door modification.										
	199-129	5.00-5	40-168 (tail)									
		Converts Tail axle spacer.	Wheel to 5.00-5	Type III. Insta	llation per FA	A STC SA829G	L. Kit also incl	udes				
	199-141	11.00-12	040-21101	164-22400	N/A	30-170	066-10000	М				
		1 '''	aircraft equippe (it also includes on hardware.					uttle				
D55,D55A, E55, E55A, 95, B95, B95A, D95A,	199-50	6.50-8	40-98	164-02706	N/A	30-66	066-04400	М				
E95, 95-55, 95-A55, 95-B55A, 95-B55B, 95-C55, 95-C55A			brake. Installat). Kit also inclu gs.									
D55, D55A, E55, E55A, 58, 58A, 95, B95, B95A, D95A, E95, 95-55, 95A-55, 95-B55,	199-138	6.50-8 19.5 x 6.75-8	40-128D	164-06106	N/A	30-93C	066-09700	М				
95-B55A, 95-B55B, 95-C55, 95-C55A			brake. Installat hydraulic fitting		C SA912GL.	Kit also include	es mounting					
50, B50, C50, D50, D50A, D50B, D50C,	199-88	8.50-10	40-134A	164-06306	N/A	30-99	066-06600	М				
D50E, E50, F50, G50, H50, J50			y to models mo t also includes r				ion per FAA ST	С				
58P, 58TC, 60, A60, B60	199-73	6.50-8 19.5 x 6.75-8	40-128	164-06106	N/A	30-93	066-04400	М				
			r FAA STC SA1 draulic fittings.	78GL, SA1790	GL. Kit also in	cludes axle spa	cers, hydraulic	'				
65, A65, 70, 65-80, 65-A80, 65-B80, 65-88	199-123	8.50-10	40-170B	164-22900	N/A	30-144A	066-09000	М				
			r FAA STC SA6 fillers for wheel				, bearing wash	er,				
65-90, 65-A90, 65-A90-1 (JU-21A),	199-90	8.50-10	40-170A	164-20900	N/A	30-144	066-09000	М				
65-A90-4 (RU-21E, RU-21H), B90, C90, C90A, C90GT, C90GTi, E90, H90 (T-44A),		STC applicability: FAA STC SA619GL (all models). Brazilian STC 9210-04 (all models). EASA STC 10039144 (all models). Australian STC F88/865 (models: 90, A90, B90, C90, E90). Kit also includes mounting hardware, bearing washer, brackets and fillers for wheel well modification, and hubcaps.										
F90, 99, 99A, A99A, B99, C99, 100, A100, B100, 200, 200C, 200CT, 200T, A200, A200C,	199-110	18 x 5.5	40-289	164-21000	N/A	30-146	066-09100 066-09200	М				
A200CT, B200, B200C, B200CT, B200T, B200GT, B200CGT		B200CT	A200, A200C, A B200T, B200G		3200C,							
	199-168											
		Hot Air Manifo	I ld Kit for aircraf	t equipped with	l brake deice	Installation onl	v in conjunction	with				





Applicability Data

Product Conversion Kit Directory Conversion Kit – Twin Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
								7.
Beechcraft (continued)								
F90, 99, 99A, A99A, B99, C99, 100, A100, B100, 200, 200C, 200CT, 200T, B200, B200C, B200T, B200CT, B200GT, B200CGT	199-125	6.50-10 22 x 6.75-10	40-203	159-01200	N/A	30-162 (1)	109-00200 (wear pad)	М
B2001, B200C1, B200G1, B200CG1		STC applicabi FAA STC SA7 Australian STC Brazilian STC Brazilian STC EASA STC 10 B200GT Kit also includede-ice bracket	57GL, SA15090 C F88/514 (mod 2013-S02-15 (i 2014-S04-27 (i 048423 (model , B200CGT). es mounting ha	GL, SA1510GL del 200). models: 200, 2/ model F90). s: 200, 200C, 2 rdware, axle sp	(all models). 200T, B200, B2 200CT, 200T, E	00T, B200GT, B 3200, B200C, B it replacement (200CT, B200T	
65, A65, 65-80, 65-A80, 65-B80, 65-88, 65-90, 65-A90, 70, B90, C90, C90A, C90GT, C90GTi,	199-126	6.50-10 22 x 6.75-10	40-204 (nose)					
E90, F90, H90 (T-44A), 99, A99, A99A, B99, C99, 100, A100, B100, 200, 200C, 200CT, 200T, B200, B200C, B200T, B200CT, B200CGT, 300, B300, B300C		Nose wheel conversion kit. STC applicability: FAA STC SA757GL, SA1061GL, SA1077GL, SA1242GL, SA380CH (all models). Australian STC F88/514 (model 200). Brazilian STC 2013-S02-15 (models: 200, 200T, B200, B200T, B200GT, B200CGT; Brazilian STC 2014-S08-01 (models: 65, A65, 65-80, 65-A80, 65-B80, 65-88, 65-90, 70, B90, C90, C90A, C90GT, C90GTi, E90). EASA STC 10048423 (models: 200, 200C, 200CT, 200T, B200, B200C, B200CT, B B200GT, B200CGT). EASA STC 10053243 (models: 65, A65, 65-80, 65-A80, 65-B80, 65-88, 65-90, 65-B90, C90, E90, H90, C90A, C90GT, C90GTi).						,
1900C, 1900D	199-184	6.50-10 22 x 6.75-10	40-273A (1)	159-04000 (rotor disc)	N/A	30-204 (1)	109-00201 (wear pad)	
			r FAA STC SA1 heel & brake de		/e, supersede	d by 199-220 Ki	t.	
	199-220	6.50-10 22 x 6.75-10	40-273A (1)	159-05900 (rotor disc)	N/A	30-204A (1)	109-00201 (wear pad)	
			r FAA STC SA1)-rings, brake d			ounting hardwar	e, swivel kit	
		(1) Internal wi	heel & brake de	sign.	i			
	199-256	6.50-8 19.5 x 6.75-8	40-450 (nose)					
		Nose wheel co	onversion kit. Ir	nstallation per F	FAA STC SA0	2204CH.		
	199-213							
						with kit 199-220 1088-5. 2 Kits re		
1900D	199-220A	6.50-10 22 x 6.75-10	40-273B (1)	159-05900 (rotor disc)	N/A	30-204A (1)	109-00201 (wear pad)	
		mounting hard manifold kit 19	lware, swivel kit	replacement (TC SA1789GL. ut hardware, an		
1900C	199-212							
						unction with kit uired per aircraft		ircraft





Applicability Data

Product Conversion Kit Directory Conversion Kit – Twin Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Cessna	•	'	'					'
310, 310A thru 310H, E310H, 310I, 310J,	199-64	6.50-10	40-40B	164-01406	N/A	30-28D	066-03300	М
310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R, 320, 320-1, 320A, 320B, 320C, 320D, 320E, 320F		Installation pe	r FAA STC SA1	10GL, SA111G	L.			
340, 340A, 401, 401A, 401B, 402, 402A,	199-72	6.50-10		164-06406	N/A	30-100	066-06600	М
402B, 411, 411A, 414						BB to heavy duty cludes axle spa		
340, 340A, 401, 401A, 401B, 402, 402A,	199-76	6.50-10	40-135A	164-20306	N/A	30-100	066-06600	М
402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C		Installation pe fittings.	r FAA STC SA1	97GL, SA6640	GL. Kit also in	cludes axle spa	cers and hydra	aulic
404	199-78	22 x 7.75-10	40-132	164-09100	N/A	30-97	066-06400	М
		Installation pe	r FAA STC SA7	81GL. Kit also	includes mat	ing hardware.		
441	199-115	22 x 7.75-10	40-169	164-20700	N/A	30-143	066-07300	М
		Installation pe		344GL. Kit also	includes mas	ster cylinder ass	emblies and a	xle
500, 501, 550, 551, S550	199-137	18 x 4.4	40-212 (nose)					
		Nose Wheel o	conversion kit. I	nstallation per	FAA STC SA8	382GL, SA883G	L.	
500, 501, 550, 551	199-164	22 x 8.0-10	40-239 (1)	159-03500 (rotor disc)	N/A	30-189A (1)	109-00100 (wear pad)	
		Kit also includ	th power assist es hydraulic ex heel & brake de	pander fittings.	nstallation per	FAA STC SA12	97GL, SA1298	BGL.
S550	199-177	22 x 8.0-10	40-202 (1)	159-03500 (rotor disc)	N/A	30-161A (1)	109-00100 (wear pad)	
		hoses.	r FAA STC SA1		so includes ax	le spacers, was	hers and hydra	aulic
deHavilland								
Twin Otter DHC-6-1, -100, -200, -300	199-92	11.00-12	040-21101	164-22400	N/A	30-170	066-10000	М
		Installation pe		065GL. Kit als	o includes ax	le spacer, moun	ting hardware,	and
Embraer								
EMB-110 P1, EMB-110 P2	199-128	6.50-8	40-193 (nose)					
		Nose Wheel o	onversion kit I	netallation per	EAA STC SAS	214GI		





Applicability Data

Conversion Kit – Twin Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Grumman								
G21, G21A	199-65	32 x 8.8	40-127	N/A	159-00700	30-91	066-11300	0
		Installation per	r FAA STC SA9	9GL.	1	ı		
Widgeon G44, G44A, Scan Type 30	199-4	7.50-10	40-46	N/A	159-00300	30-31	066-11700 066-11900 066-11800	0
		Installation per	FAA STC SA1	21EA.				
Mallard G-73 and Turbo Conversions	199-113	32 x 8.8, 9.50-16	40-174	N/A	159-00900	30-148	066-11300	0
		Installation per	FAA STC SA6	51GL. Kit also	includes mou	nting hardware.		
		'						
Learjet								
24, 24A, 24B, 24B-A, 24C, 24D, 24D-A, 24E, 24F, 24F-A, 25, 25A, 25B, 25C, 25D, 25F, 35, 25A, 26A, 26A, 26A, 26A, 26A, 26A, 26A, 26	199-175	18 x 4.4	40-212 (nose)					
35A, 36, 36A, 55		Nose Wheel C	onversion Kit.	Installation per	FAA STC SA1	459GL.		
Mitsubishi								
	100 101	0.50.40	40.4.40	404.07000		20.424	000 00000	
MU-2B, MU-2B-10, -15, -20, -25, -26, -26A, -30, -35, -36, -36A, -40, -60	199-101	8.50-10	40-148	164-07200	N/A	30-131	066-09000	. M
			r FAA STC SA6 ware and hydra			STA SA90-118	3. Kit also inclu	ıdes
MU-2B-20, -25, -26, -26A, -35, -36, -36A,	199-121							
-40, -60		. •	sting 40-87 Nose 34GL, SA685GL			•	ng seals. Insta	llation
Piper								
Aztec Series	199-63 (1)	7.00-6		164-05700	N/A	30-96	066-06200	М
		Upgrades exis	ting Cleveland	wheels and bra	kes to 40-131	/30-96. Installa	tion per ESB 7	000-4.
PA-31T, PA-31T1	199-89 (1)	6.50-10	40-106	164-03906	N/A	30-106	066-06800	М
		Installation per	r Piper service l	kit #764-039. K	it also include	s mounting har	dware.	
PA-31-310, PA-31-325, PA-31-350	199-66 (1)	6.50-10		164-07906	N/A	30-95A	066-06600	М
			raft from standa A. Installation p			/30-68 series to	o 4-piston	
PA-31P (425 HP), PA-31-350	199-83	6.50-10	40-141	164-07700	N/A	30-123	066-06800	М
		For aircraft wit	h 1 5/8" axle.	Installation per	FAA STC SA2	84GL, SA295G	iL.	
PA-31, PA-31-300, PA-31-325, PA-31-350	199-100	6.50-10	40-162	164-07700	N/A	30-138	066-06800	М
		For aircraft wit	h 1 1/2" axle.	Installation per	FAA STC SA5	63GL.	1	<u> </u>
PA-31T2	199-111 (2)	6.50-10	40-167	164-20600	N/A	30-142	066-07300	М
			r FAA STC SA5 um hydraulic tu			nting hardware,	hydraulic hose	es and
PA-42, PA-42-720	199-112	6.50-10	40-166	164-07400	N/A	30-141	066-07300	М
			r FAA STC SA6 nly with original I 604).					
(1) Order from airframe manufacturer only.		Service Bulletin per SB7034.	Kit, for replace	ment of landing	g gear emerge	ncy extension a	air line. STC	





Applicability Data

Conversion Kit – Twin Engine

Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре	
Schafer Aircraft Modificatio	ns Inc.								
Piper Model PA-31-350 modified by Schafer	199-119	6.50-10	40-195	164-21900	N/A	30-158	066-06800	М	
STC SA4678SW. (1)		Installation pe	er FAA STC SA7	21GL. Kit also	includes hyd	Iraulic hoses and	d fittings.		
(1) Design sold to EMBRAER - to become EM	B 820, N-821.								
Shorts Brothers Ltd.									
SD3-30, SD3-60, SD3 Sherpa, SD3-60 Sherpa	199-139	9.00-6	40-210 (nose)						
		Nose Wheel	Conversion Kit.	Installation pe	r FAA STC SA	A910GL or Cana	dian STASA91	-111.	
Swearingen Aircraft									
Merlin SA26-T, -AT	199-150	8.50-10	40-170	164-20900	N/A	30-144A	066-09000	М	
		Installation pe	er FAA STC SA1	009GL. Kit als	so includes m	ounting hardwar	e, axle washer,	, and	
Twin Commander Aircraft C	orp. (1)	`							
500, 500A, 500B, 500S, 500U	199-122	8.50-10	40-198	164-22000	N/A	30-159B	066-09000	М	
		Brazialian ST	oility: 706GL (models: C 2012S08-20 (des mounting ha	(models: 500, 5		,		-	
	199-122A	8.50-10	40-198	164-22000	N/A	30-159C	066-09000	М	
		STC applicab FAA STC SA Brazialian ST	 sing Skydrol bra sility: 706GL (models: C 2012S08-20 (des mounting ha	500, 500A, 50 (models: 500, 5					
560F, 680F, 680FL, 680FL(P), 680T, 680V,	199-80	8.50-10	40-107A	164-07200	N/A	30-107E	066-09000	М	
680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B		STC applicable FAA SA497G ANAC STC 2 690C, 690D,	L (all models). 013S06-14 (mo	dels: 560F, 680	DF, 680V, 680I	FL, 680W, 681, 6	690, 690A, 690	В,	
	199-80A	8.50-10	40-107A	164-07200	N/A	30-107D	066-09000	М	
		For aircraft using Skydrol brake fluid. STC applicability: FAA STC SA497GL (all models). ANAC STC 2013S06-14 (models: 560F, 680F, 680V, 680FL, 680W, 681, 690, 690A, 690B, 690C, 690D, 695, 695A). Kit also includes mounting hardware.							
500, 500A, 500B, 500S, 500U, 560A, 560E	199-174	6.00-6	40-140 (nose)						
		Nose Wheel	conversion kit. I	nstallation per	FAA STC SA	1457GL.	•		
560F, 680, 680E, 680FL, 680FL(P), 680F, 680V, 680W, 681, 685, 690, 680W, 681, 685, 690, 680W, 681, 685,	199-174	6.00-6	40-140 (nose)						
690, 690A, 690B, 690C, 690D, 695, 695A, 695B, 720		Nose Wheel	conversion kit. I	nstallation per	FAA STC SA	1458GL.			



(1) Formerly Gulfstream Aerospace.



Applicability Data

Experimental Aircraft

Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master C Assemb		Parking Valve	Brake
Aircraft Designs								
Stallion	199-60	40-75B	30-52					
				40-87	10-19J	199-505 Seal Kit		
American Homebuilts	6							
John Doe STOL	199-104C	40-59A	30-59A					
		Kit also includ	des dust shields.					
	199-105C	40-113X	30-75X					
		Kit also includ	des dust shields.		1			
			I					
Aviation Maintenance						1		
Stearman 75	199-167	40-256	30-195		10-30A	199-512 Seal Kit		
(1) Formerly Redline Aviation.								
D and J Harmon								
Harmon Rocket	199-152	40-151	30-133					
		Kit also includ	des dust shields.					
D.F.L. Holdings								
Tango	199-152	40-151	30-133					
		Kit also includ	des dust shields.	•				
				40-77	10-19	199-505 Seal Kit		
					10-35	199-513 Seal Kit		
Dean Wilson								
Whitney Boomerang	199-102	40-78B	30-9					
		Kit also includ	des dust shields.		1		1	
				40-77	10-55B	199-516 Seal Kit	60-5	199-527 Seal K
				40-77G				
					<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Epic								
Epic LT		40-434 (1)	30-191 (1)					

If your make & model aircraft is not on the aplicability chart, please contact the Cleveland Technical Hotline at (800) 272-5464 for help.

Most of the kits are available with chrome brake discs.

For a 5-inch dust shield order 157-00900. For a 6-inch dust shield order a 157-00800.

WARNING! The user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.





Applicability Data

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Experimental Aircraft	

Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master Cylinder Assembly		Parking Brake Valve	
Explorer Aeronautique								
Private Explorer Standard	199-62	40-75D	30-52N					
					10-22A	199-507 Seal Kit		
Private Explorer Float Equipped		40-101	30-67B					
Everence Aircraft			1	1	î			
Express Aircraft CT, S90, Express 2000 / 2000RG	100.60	40-75B	30-52					
C1, 590, Express 2000 / 2000RG	199-60		30-52			100 F0F Cool Vit		
					10-20	199-505 Seal Kit		
Four Winds Aircraft								
192 / 210 / 250T	199-60	40-75B	30-52					
				40-77G	10-19J	199-505 Seal Kit		
Hensley Aircraft								
F-19 Wolf Aerobatic	199-46	40-97A	30-63A					
		Kit also includ	des torque plate	bushings.				
F-19 Wolf Utility	199-62	40-75D	30-52N					
Lancair								
Evolution		40-469	30-280	40-77H				
Lancair IV Standard	199-208	40-96E	30-61E	40-77	10-19J	199-505 Seal Kit		
Lancair IV High Energy	199-224	40-406	30-233	40-77	10-19J	199-505 Seal Kit		
Lancair IV High Energy Upgrade	199-224A		091-21200					
Legacy FG / RG	199-152	40-151	30-133					
		Kit also includ	des dust shields.		1		l	
					10-88			
Legacy 2000	199-152	40-151	30-133			1		
		Kit also includ	l des dust shields.	1	1		<u> </u>	
				40-77	10-88			
					10-19J	199-505 Seal Kit		
Murphy Manufacturing	1	'			·			
Rebel, SR2500 Super Rebel, Maverick Renegade Spirit, Elite	199-71	40-60	30-60A					

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Applicability Data

Experimental Aircraft

Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master Cylinder Assembly		Parking Brake Valve		
New Glasair	Contact N	ew Glassair fo	r applicability						
GlaStar, Glasair Super II FT, Glasair III and Super III									
Pacific Aerosystems	S								
Sky Aero	199-102	40-78B	30-9						
		Kit also includ	les dust shields.						
F300	199-60A	40-75B	30-52U						
Performance Aircraft	ft								
Legend		40-96E	30-61E	40-77					
Pitts	'								
S1-C,	199-102	40-78B	30-9						
S1-S (Pitts Special)	ts Special) Kit also includ				also includes dust shields.				
	199-103	40-78J	30-9C						
		Kit also includ	les dust shields.						
					10-20	199-505 Seal Kit			
Rans									
S-7C	199-104	40-59A	30-59A						
		Kit also includ	les dust shields.						
					10-54	199-516 Seal Kit			
	199-204	40-281	30-214						
S-16	199-102	40-78B	30-9						
		Kit also includ	les dust shields.						
SkyStar Aircraft									
Kit Fox	199-215	40-281	30-224						
					10-88				
Pulsar	199-102	40-78B	30-9						
		Kit also includ	les dust shields.						
					10-20	199-505 Seal Kit			

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Applicability Data

	151	84-1-1441	Maria Barda	N	Dankin a Danka		
Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master Cylinder Assembly		Parking Brake Valve
Steen Aero Lab							
Skybolt Skybolt	199-104	40-59A	30-59A	T			
,	100 101		les dust shields.				
					10-19	199-505 Seal Kit	
					10-19H	199-505 Seal Kit	
	199-105	40-113X	30-75X				
		Kit also includ	l les dust shields.				
					10-19	199-505 Seal Kit	
					10-19H	199-505 Seal Kit	
Stop Starduster 4-Star SA-900, Starlet SA-500,	199-103	40-78J	30-9C				
<u> </u>	100 102	40.79.1	20.00	1	1		
Starduster Too SA-300,		Kit also includ	les dust shields.		1		
Acroduster Too SA-750,					10-20	199-505 Seal Kit	
SA100 Starduster One, SA101 Super Starduster,	199-104	40-59A	30-59A				
SA-500 Starlet, SA-900 V-Star,		Kit also includ	les dust shields.				
SA101 Super Starduster					10-21	199-506 Seal Kit	
Ultravia Aero Int'l							
Pelican PL912/914	199-102	40-78B	30-9				
-elican FL912/914							
relican r L912/914		Kit also includ	les dust shields.				
-Gilcan F L912/914		Kit also includ	les dust shields.				
Vans Aircraft		Kit also includ	les dust shields.	40-77C	10-20	199-505 Seal Kit	
√ans Aircraft	199-102		ı	1	10-20	199-505 Seal Kit	
√ans Aircraft		40-78B		40-77C		199-505 Seal Kit	
√ans Aircraft		40-78B	30-9	40-77C		199-505 Seal Kit	
Vans Aircraft RV-3 thru RV-9	199-102	40-78B Kit also includ	30-9 les dust shields.	40-77C			
	199-102	40-78B Kit also included 40-59A	30-9 les dust shields.	40-77C 40-77C	10-30		

If your make & model aircraft is not on the aplicability chart, please contact the Cleveland Technical Hotline at (800) 272-5464 for help.

30-52

40-75B

Most of the kits are available with chrome brake discs.

For a 5-inch dust shield order 157-00900. For a 6-inch dust shield order a 157-00800.

199-60

<u>WARNING!</u> The user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.





SE / XL

Applicability Data

Experimental Aircraft

Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master Cylinder Assembly		Parking Brake Valve		
Wag-Aero									
Sport Trainer, Observer, Acro Trainer,	199-102	40-78B	30-9						
Acro Sport I & II, Wag-a-bond Classic, Super Sport, Wag-a-bond Traveler,		Kit also includes dust shields.							
Sportsman 2+2, Wag-a-bond	199-103	40-78J	30-9C						
		Kit also includes dust shields.							
	199-104	40-59A	30-59A						
		Kit also includes dust shields.							
	199-105	40-113X	30-75X						
		Kit also includes dust shields.							
					10-34	199-513 Seal Kit			
					10-55	199-516 Seal Kit			
7ECA, 7GCAA, 7GCBC, 7KCAB					10-5	199-502 Seal Kit			
1ACA, 7EAC, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC, 7AC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB & 7GCBA					10-54	199-516 Seal Kit			
Exclusive to Wag Aero (Safe Air) who holds the STC	199-211								

Zenair

6.00 x 6: CH200, 250, 300 (Tri-Z),	199-102	40-78B	30-9						
Zipper, Cricket MC-15, Stol CH-701		Kit also includes dust shields.							
		40-59A		40-77C	10-35	199-513 Seal Kit	60-5	199-527 Seal Kit	
					10-54	199-516 Seal Kit			
5.00 x 5: CH-100 (Mono-Z), CH-150, 180, Zodiac CH-600					10-19	199-505 Seal Kit			

If your make & model aircraft is not on the aplicability chart, please contact the Cleveland Technical Hotline at (800) 272-5464 for help.

Most of the kits are available with chrome brake discs.

For a 5-inch dust shield order 157-00900. For a 6-inch dust shield order a 157-00800.

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Description

Product Conversion Kit Directory Wheel & Brake Ship Set

Lining

Type Comments

Brake

Assy

Chrome

Disc

Standard

Disc

Applicability Data

1714 5			 _		
			1		

Size

Wheel

Assv

Order Code

Number

Kit Built/Experi	mental and	General	Usage						
Heavy Duty Upgrade Kit	199-09300 (4) P/N 199-93	5.00-5	40-230	164-09900	N/A	30-181A	066-10600	0	Magnesium wheel Aluminum brake (3)
Kit Built/Experimental Standard Energy Brake	199-10200 (2) P/N 199-102	5.00-5	40-78B (4)	164-01700	164-11700	30-9 (4)	066-10600	0	Magnesium wheel/brake (3)
Kit Built/Experimental CHROME Standard Energy Brake	199-10203 (1)(2) P/N 199-102	5.00-5	40-78B CHROME	164-01700	164-11700	30-9	066-10600	0	Magnesium wheel/brake (3)
Kit Built/Experimental 1-1/4" Axle	199-10300 (2) P/N 199-103	5.00-5	40-78J	164-01700	164-11700	30-9C	066-10600	0	Aluminum wheel/brake (3)
Kit Built/Experimental CHROME 1-1/4" Axle	199-10303 (1)(2) P/N 199-103	5.00-5	40-78A CHROME	164-01700	164-11700	30-9C	066-10600	0	Aluminum wheel/brake (3)
Kit Built/Experimental 1-1/2" Axle	199-10400 (2) P/N 199-104	6.00-6	40-59A	164-07500	164-17500	30-59A	066-11200	0	Magnesium wheel/brake (3)
Kit Built/Experimental CHROME 1-1/2" Axle	199-10403 (1)(2) P/N 199-104	6.00-6	40-59A CHROME	164-07500	164-17500	30-59A	066-11200	0	Magnesium wheel/brake (3)
Kit Built/Experimental 1-1/2" Axle	199-10500 (2) P/N 199-105	6.00-6	40-113X	164-04000	164-14000	30-75X	066-10500	0	Aluminum wheel/brake (3)
Kit Built/Experimental CHROME 1-1/2" Axle	199-10503 (1)(2) P/N 199-105	6.00-6	40-113X CHROME	164-04000	164-14000	30-75X	066-10500	0	Aluminum wheel/brake (3)
Kit Built/Experimental High Energy Brake	199-15200 (2) P/N 199-152	5.00-5	40-151	164-08500	N/A	30-133	066-10500	0	Magnesium wheel/brake (3)
Kit Built/Experimental High Energy Brake	199-15201 (2) P/N 199-152A	5.00-5	40-151A	164-08500	N/A	30-133	066-10500	0	Aluminum wheel/brake (3)
Kit Built/Experimental Increased Energy Brake	199-15600 (2) P/N 199-156	5.00-5	40-230	164-09900	N/A	30-181A	066-10600	0	Magnesium wheel/brake (3)
General Usage	199-08400 (6)	6.00-6	40-113	164-04000	164-14000	30-75	066-10500	0	Aluminum wheel/brake (3)
General Usage	199-08401 (6)	6.00-6	40-113	164-04000	164-14000	30-75A	066-10500	0	Aluminum wheel/brake (3)
General Usage	199-08403 (1)(6)	6.00-6	40-113	164-04000	164-14000	30-75	066-10500	0	Aluminum wheel/brake (3)
General Usage	199-08413 (1)(6)	6.00-6	40-113	164-04000	164-14000	30-75A	066-10500	0	Aluminum wheel/brake (3)
Kit Built/Experimental	199-19700 (2)(6)	5.00-5	40-151	164-08500	N/A	30-164	066-06200	М	Magnesium wheel/brake (3)
Kit Built/Experimental 1-1/4" Axle	199-20400 (2)(6)	6.00-6	40-281	164-23400	N/A	30-214	066-10500	0	Magnesium wheel/brake (3)
Kit Built/Experimental	199-22300 (2)(6)	6.00-6	40-281	164-23400	N/A	30-214B	066-10500	0	Magnesium wheel/brake (3)
Kit Built/Experimental 1-1/2" Axle	199-25301 (5)(7)	6.00-6	40-75B	164-01501	164-11501	30-52	066-10500	0	Aluminum wheel/brake (3)
General Usage	199-26500 (6)	14.5 x 5.5-6	40-412	N/A	N/A	30-242	159-07100	М	Aluminum wheel/brake (3)

- (1) Wheels are equipped with chrome plated brake discs.
- (2) For detail design/rating information, refer to Cleveland drawing 50-76, general arrangement Wheels & Brakes, 5" & 6".
- (3) Wheels and Brakes are FAA TSO C26 Approved. NOTE! For a product to be TSO qualified, it has to have successfully demonstrated its ability to meet minimum performance standards in accordance with FAA recognized rating methods. The TSO approval of a product does not constitute installation approval or applicability on an FAA Type Certificated Aircraft. It is the responsibility of those installing these products to determine that the aircraft installation and its wheel and brake performance requirements are compatible for the TSO ratings of the wheel and brake. TSO approved products must have separate approval for installation in a FAA type certificated aircraft. TSO Approved Products may be installed only if performed under Title 14 CFR Part 43 or the applicable airworthiness requirements.
- (4) 199-93 Wheel & Brake Upgrade Kit converts wheel and brake to Heavy Duty.
- (5) The Cleveland Wheels & Brakes as listed are FAA TSO C26 approved, quantity are furnished in pairs for replacement of existing equipment or initial installation on an experimental non FAA Type Certificated Aircraft. This ship set of parts also includes a spare set of brake linings, rivets and a Rebate Coupon (for when both linings and discs need to be replaced). See AWBCMM0001 Component Maintenance Manual for guidance of when and how to replace worn linings and discs.
- (6) Be advised that the Order Code Number is used to identify a grouping of a pre-packaged ship set of TSO Approved wheels and brakes for customer ordering and shipping convenience. At time of installation of parts contained within, the installer is to refer only to the Part Number of each listed wheel and brake assembly to indicate what parts have been installed on the aircraft. Do not refer to the order code number for installation purposes, as it is not an FAA recognized part number.
- (7) Be advised that the Order Code Number is used to identify a grouping of a pre-packaged ship set of TSO Approved wheels and brakes along with TSO Approved spare parts for customer ordering and shipping convenience. At time of installation of parts contained within, the installer is to refer only to the Part Number of each listed wheel and brake assembly to indicate what parts have been installed on the aircraft. Do not refer to the order code number for installation purposes, as it is not an FAA recognized part number.









Aircraft Wheel & Brake Division Avon, Ohio



Parker Aerospace Headquarters Irvine, California



Parker Hannifin Corporation Headquarters Cleveland, Ohio

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1-800-272-5464



