

AWBPCKD0001-4

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#### **Revision Highlights**

#### Issue 4, dated September 30, 2014

#### Page Description of Change

7 Beechcraft, 199-126:

(add) Brazilian STC 2014-S08-01 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 Fax: 440-937-5409 1-800-BRAKING (272-5464)



AWBPCKD0001-4 Notes	Product Conversion Kit Directory



### Product Conversion Kit Directory Conversion Kit – Single Engine

Applicability Data			Convers	sion Kit -	- Single	Engine		
Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Aero Commander								
Lark 100-180	199-188	6.00-6	40-86A	164-02000	164-12000	30-56F	066-10500	0
		Installation pe	r FAA STC SA1	635GL.	1			
Ayres				.,				
S-2R (Thrush)	199-68A	29 x 11.00-10	40-133	N/A	164-05806	30-98A	066-10800	0
		1 '	olus 27" W & B. includes hydrau				utomotive Brak	e Fluid
Beechcraft	'				1			
A-23,19, 19A, M19A, B19	199-124 (1)	6.00-6	40-113C	164-04300	164-14300	30-75B	066-10500	0
(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)		Installation per hardware.	r FAA STC SA7	18GL. Kit also	includes axle s	spacers and wa	ashers, and mo	unting
35, A35, B35, C35, D35, E35, F35, G35, 35R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E32A,	199-49 (1)	6.00-6 7.00-6	40-83	164-02504	164-12504	30-54	066-10500	0
E33A, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, A36			r FAA STC SA1 es, and bulkhead		ncludes axle s	pacers, mounti	ng hardware,	
35, A35, B35, C35, D35, E35, F35, G35, 35R, H35, J35, K35, M35, N35, P35, S35,	199-50	6.50-8	40-98	164-02706	N/A	30-66	066-04400	М
45(TY-34), A45 (T-34A, B-45), D45 (T-34B)			r FAA STC SA1 spacers, mounti					30
(1) Also available with chrome plated brake dis-	cs. To order, spe	ecify kit number f	ollowed by "CH	ROME".				
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 Goo FAA STC SA1	dyear to Clevela	and; Cannot be	used with cros	sswind landing	gear. Installation	on per
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			t is not a replace ne wider offset o		auley. The 199	-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
			ne used only with ed with crosswi					n
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			e used only with ed with crosswi					
P210N (S/N P21000001 thru P21000150)	199-60A (1)	6.00-6	40-75B	164-01501	164-11501	30-52U	066-10500	0
		Installation pe	r FAA STC SA5	2GL.				
190, 195, 195A, 195B	199-61	6.50-10	40-40C	164-00806	N/A	30-28C	066-03300	М
			for use on aircra Kit also include			nding gear. In	stallation per FA	NA



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

Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
	1	<u> </u>						
deHavilland			I	1	1	T		
Chipmunk DHC-1-21, -22, -22A DHC-1B-2-S3, -S5	199-79 (1)	6.00-6	40-97D	164-02601	164-12601	30-63P	066-10500	0
,		Installation per hardware.	FAA STC SA7	48S0, SA1011	S0. Kit also in	cludes axle spa	acers and mou	nting
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
			FAA STC SA1		adian STA SA9	00-1. Kit also ir	ncludes brake i	nlet
(1) Also available with chrome plated brake disc	s. To order, sp	ecify kit number fo	ollowed by "CHI	ROME".				
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.			
Globe Swift			1	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	GL. Kit also ir	cludes axle sp	acers.		
(1) Also available with chrome plated brake disc	s. To order, sp	ecify kit number fo	ollowed by "CHI	ROME".				
Navion								
Navion A, B, D, E, F, G, H	199-52	7.00-8 (main)	40-98D	164-02701	N/A	30-66B	066-11000	0
	199-52	7.00-8 (main) 6.00-6 (nose)	40-98D (main) 40-76B (nose)	164-02701	N/A	30-66B	066-11000	0
	199-52	6.00-6 (nose)  Main and Nose	(main) 40-76B	ation per FAA	STC SA36GL.	Kit also includ		
	199-52 199-52A	6.00-6 (nose)  Main and Nose	(main) 40-76B (nose) wheel. Install	ation per FAA	STC SA36GL.	Kit also includ		
A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8  Mains only. Institute of the space of the sp	(main) 40-76B (nose) e wheel. Installdust shield and	ation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hose	Kit also includes.	es NLG and MI	_G O
A, B, D, E, F, G, H A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8  Mains only. Institute of the space of the sp	(main) 40-76B (nose)  e wheel. Install dust shield and  40-98D  stallation per FA	ation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hose	Kit also includes.	es NLG and MI	_G O
A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8  Mains only. Institute of the space of the sp	(main) 40-76B (nose)  e wheel. Install dust shield and  40-98D  stallation per FA	ation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hose	Kit also includes.	es NLG and MI	_G O
A, B, D, E, F, G, H A, B, D, E, F, G, H		Main and Nose axle spacers, of 7.00-8  Mains only. Institute of the space of the sp	(main) 40-76B (nose)  e wheel. Install dust shield and  40-98D  stallation per FA	ation per FAA hardware, and 164-02701	STC SA36GL. I hydraulic hose	Kit also includes.	es NLG and MI	_G O
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. Installdust shield and 40-98D  stallation per FA hydraulic hose	ation per FAA hardware, and 164-02701 AA STC SA460s.  159-07400 (rotor disc) 1376CH, EAS.	STC SA36GL. I hydraulic hose  N/A  GL. Kit also inc	Kit also includes.  30-66B  Sludes axle spa  30-244 (1)	es NLG and MI  066-11000  cers, dust shie  109-04000 (wear pad)	_G 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)  wheel. Install dust shield and  40-98D  stallation per F/A hydraulic hose  40-424 (1)	ation per FAA hardware, and 164-02701 AA STC SA460s.  159-07400 (rotor disc) 1376CH, EAS.	STC SA36GL. I hydraulic hose  N/A  GL. Kit also inc	Kit also includes.  30-66B  Sludes axle spa  30-244 (1)	es NLG and MI  066-11000  cers, dust shie  109-04000 (wear pad)	_G 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)  wheel. Install dust shield and  40-98D  stallation per F/A hydraulic hose  40-424 (1)	ation per FAA hardware, and 164-02701 AA STC SA460s.  159-07400 (rotor disc) 1376CH, EAS.	STC SA36GL. I hydraulic hose  N/A  GL. Kit also inc	Kit also includes.  30-66B  Sludes axle spa  30-244 (1)	es NLG and MI 066-11000 cers, dust shie 109-04000 (wear pad)	_G O Id and



# Product Conversion Kit Directory Conversion Kit – Single Engine

#### **Applicability Data**

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
			able only from Ur des mounting ha			stallation per l	Jnivair TC appr	oval.
(1) Also available with chrome plated brak	e disc. To order, spe	ecify kit number,	followed by "CH	ROME".				
Univair Aircraft Corporati	on							
Refer to the Univair Aircraft Aircraft	199-231		40-84	164-01900	N/A	30-41B	066-10600	0
Corporation Master Eligibility List.		Hannifin, Airo Corporation.	nd brake kit has craft Wheel and E Parker Hannifin, f this equipment.	Brake. Aircraft Aircraft Wheel	eligibility is the	sole responsil	bility of Univair	Aircraft



Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Beechcraft								
D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, TC-45G, RC-45J, C-45H, TC-45H,	199-127	8.50-10 8 or 10 ply	40-170	164-20900	N/A	30-144B	066-09000	М
TC-45J, JRB-6, 3N, 3NM, 3TM			Tricycle landing t also includes r					
	199-129	5.00-5	40-168 (tail)					
		Converts Tail axle spacer.	Wheel to 5.00-5	Type III. Instal	lation per FAA	STC SA829GI	Kit also inclu	ides
	199-141	11.00-12	040-21101	164-22400	N/A	30-170	066-10000	М
			aircraft equipped Kit 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 includ 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 and hydraulic fitt		C SA912GL.	Kit also include	es mounting ha	rdware
50, B50, C50, D50, D50A, D50B, D50C, D50E,	199-88	8.50-10	40-134A	164-06306	N/A	30-99	066-06600	М
E50, F50, G50, H50, J50			ly to models mo t also includes n				on 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
		Installation pe and hydraulic	r FAA STC SA1 fittings.	78GL, SA1790	GL. Kit also inc	cludes axle spa	cers, hydraulic	hoses,
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),		Brazilian STC EASA STC 10 Australian ST	319GL (all mode 9210-04 (all mo 0039144 (all mo C F88/865 (mod es mounting ha	odels) dels) lels: 90, A90, B			for wheel well	
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		STC applicable FAA STC SAG EASA STC 10 B200C, B2000 Brazilian STC	uipped with star ility: 846GL, SA650G 0043296 (model CT, B200T, B200 2013S08-15 (m es hydraulic hos	L, SA890GL (as: 200, 200C, 200T, B200CGT	all models) 200CT, 200T, A			)
	199-168							
		Hot Air Manifo	l old Kit for aircraf	t equipped with	brake deice	Installation only	v in coniunction	with
		Kit 199-110.	ran on an oran				, 55juriodoi	



Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Beechcraft (continued)								
F90, 99, 99A, A99A, B99, C99, 100, A100, B100, 200, 200C, 200CT, 200T, B200, B200C,	199-125	6.50-10 22 x 6.75-10	40-203	159-01200	N/A	30-162 (1)	109-00200 (wear pad)	М
B200T, B200CT, B200GT, B200CGT		STC applicabi FAA STC SA7 Australian STC Brazilian STC Brazilian STC EASA STC 10 B200GT, B200 Kit also includ de-ice bracket	57GL, SA15090 C F88/514 (mod 2013-S02-15 (r 2014-S04-27 (r 048423 (model 0CGT) es mounting ha	GL, SA1510GL del 200) models: 200, 20 model F90) s: 200, 200C, 2 rdware, axle sp	(all models) 00T, B200, B2 200CT, 200T, B	00T, B200GT, B B200, B200C, B tit replacement 0	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		Australian STC Brazilian STC Brazilian STC 70, B90, C90,	lity: 57GL, SA1061 C F88/514 (moc 2013-S02-15 (r 2014-S08-01 (r C90A, C90GT, 048423 (model	del 200) models: 200, 20 models: 65, A6 C90GTi, E90)	00T, B200, B2 5, 65-80, 65-A	SA380CH (all m 00T, B200GT, B 880, 65-B80, 65- B200, B200C, B	200CGT) 88, 65-90, 95-	,
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 neel & 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)	
		replacement C	r FAA STC SA1 )-rings, brake d neel & brake de	e-ice manifold		ounting hardware	e, swivel kit	
	199-256	6.50-8 19.5 x 6.75-8	40-450 (nose)					
		Nose wheel co	onversion kit. Ir	nstallation per F	AA STC SAO	2204CH.		
	199-213							
						with kit 199-220 0088-5. 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	ware, swivel kit	replacement (		TC SA1789GL. out hardware, an		
1900C	199-212							
						unction with kit unction with kit		ircraft



Model/ Name	Kit Number	Tire Size	Main Wheel Assembly	Standard Disc	Chrome Disc	Brake Assembly	Lining	Туре
Name -	Hamboi	0.20	Accountry	5100	2.00	Accombig	Linning	Турс
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						B 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	ulic
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 mati	ing hardware.	1	
441	199-115	22 x 7.75-10	40-169	164-20700	N/A	30-143	066-07300	М
		Installation pe		44GL. Kit also	includes mas	ter cylinder ass	emblies and ax	de
500, 501, 550, 551, S550	199-137	18 x 4.4	40-212 (nose)					
		Nose Wheel c	onversion kit. I	nstallation per l	AA STC SA8	82GL, 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 exp heel & brake de	oander fittings.	stallation per	FAA STC SA129	97GL, SA1298	GL.
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		o includes axl	e spacers, wash	ners and hydra	ulic
deHavilland	T		T		T	<u> </u>	T	ï
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 hydraulic inlet		065GL. Kit als	o includes axl	e spacer, moun	ting hardware,	and
Embraer								
EMB-110 P1, EMB-110 P2	199-128	6.50-8	40-193 (nose)					
		Nose Wheel c	onversion kit. I	nstallation per l	- FAA STC SA8	14GI		



Applicability Data			00111010	SIOII IXIL		90		
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 pe	r FAA STC SAS	99GL.	,			
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 pe	r FAA STC SA1	121EA.				
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 pe	r FAA STC SA6	551GL. 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, 25B, 25C, 25D, 25F, 35, 25A, 25B, 25C, 25D, 25F, 35, 25C, 25D, 25F, 35C, 25D, 25F, 25C, 25C, 25D, 25F, 25C, 25C, 25C, 25C, 25C, 25C, 25C, 25C	199-175	18 x 4.4	40-212 (nose)					
35A, 36, 36A, 55		Nose Wheel C	Conversion Kit.	Installation per	r FAA STC SA1	1459GL.		
Mitsubishi	1	1		1	1	1		
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	М
			r FAA STC SA6 dware and hydra			n STA SA90-11	8. Kit also incl	udes
MU-2B-20, -25, -26, -26A, -35, -36, -36A,	199-121							
-40, -60			sting 40-87 Nos 34GL, SA685GI				ing seals. Instal	llation
Piper								
Aztec Series	199-63 (1)	7.00-6		164-05700	N/A	30-96	066-06200	М
		Upgrades exis	sting Cleveland	wheels and bra	akes to 40-131	/30-96. Installa	ation 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 pe	r Piper service	L kit #764-039. I	⊥ Kit also include	s mounting har	rdware.	
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 t	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 with	th 1 5/8" axle.	Installation per	FAA STC SA2	84GL, SA2950	 3L.	
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 with	th 1 1/2" axle.	Installation per	FAA STC SA5	63GL.		
PA-31T2	199-111 (2)	6.50-10	40-167	164-20600	N/A	30-142	066-07300	М
			r FAA STC SA5 num 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
			or FAA STC SA6 only with origina 1 604).					
(1) Order from airframe manufacturer only.		1 Service Bulletin	n Kit, for replace	ement of landin	g gear emerge	ncy extension	air line. STC ap	)-
	proved pe	er SB7034.						



# Product Conversion Kit Directory Conversion Kit – Twin Engine

#### **Applicability Data**

Model/	Kit	Tire	Main Wheel	Standard	Chrome	Brake		
Name	Number	Size	Assembly	Disc	Disc	Assembly	Lining	Туре
Schafer Aircraft Modificatio	ns Inc.							
Piper Model PA-31-350 modified by Schafer STC SA4678SW. (1)	199-119	6.50-10	40-195	164-21900	N/A	30-158	066-06800	М
STC SA4678SVV. (1)		Installation po	er FAA STC SA7	721GL. Kit also	includes hyd	raulic hoses and	d fittings.	
(1) Design sold to EMBRAER - to become EMI	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 per	FAA STC SA	910GL or Cana	dian STA SA91	-111.
Swearingen Aircraft								
Merlin SA26-T, -AT	199-150	8.50-10	40-170	164-20900	N/A	30-144A	066-09000	М
		Installation po	er FAA STC SA1	1009GL. 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	pility: 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 applicate FAA STC SA Brazialian ST	sing Skydrol bra bility: 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 applicate FAA SA497G ANAC STC 2 690C, 690D,	L (all models). 013S06-14 (mo	dels: 560F, 680	F, 680V, 680F	EL, 680W, 681, 6	590, 690A, 690B	3,
	199-80A	8.50-10	40-107A	164-07200	N/A	30-107D	066-09000	М
		STC applicate FAA STC SA ANAC STC 2 690C, 690D,	497GL (all mode 013S06-14 (mo	els). dels: 560F, 680	F, 680V, 680F	FL, 680W, 681, 6	590, 690A, 690B	3,
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,	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**

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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 Homebuilt	s	'	'					
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		'			
Aviation Maintenanc Stearman 75	e Limited (1)	40-256	30-195		10-30A	199-512 Seal Kit		
(1) Formerly Redline Aviation.							<u> </u>	
D and J Harmon  Harmon Rocket	199-152	40-151 Kit also includ	30-133 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					
				40-77	10-55B	199-516 Seal Kit	60-5	199-527 Seal
				40-77G				
Epic								
LT		40-434 (1)	30-191 (1)					
(1) Internal wheel & brake design.	'			•				

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.

<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.



# Product Conversion Kit Directory **Experimental Aircraft**

Aircraft Make and Model	Kit Number	Main Wheel Assembly	Main Brake Assembly	Nose Wheel Assembly	Master C Assemb		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			'	
Express Aircraft							
CT, S90, Express 2000 / 2000RG	199-60	40-75B	30-52				
					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	les 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	les dust shields.	•			
					10-88		
Legacy 2000	199-152	40-151	30-133				
		Kit also includ	les dust shields.				
				40-77	10-88		
					10-19J	199-505 Seal Kit	
Murphy Manufacturing							
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									
Sky Aero	199-102	40-78B	30-9						
		Kit also includ	les dust shields.						
F300	199-60A	40-75B	30-52U						
Performance Aircraft									
Legend		40-96E	30-61E	40-77					
Pitts									
S1-C,	199-102	40-78B	30-9						
S1-S (Pitts Special)		Kit also includ	Kit also includes dust shields.						
	199-103	40-78J	30-9C						
		Kit also includes dust shields.							
					10-20	199-505 Seal Kit			
Rans									
S-7C	199-104	40-59A	30-59A						
		Kit also includ	Kit also includes 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.			1			
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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## Product Conversion Kit Directory Experimental Aircraft

#### **Applicability Data**

Applicability Data			Exp	perimenta	ai Airc	ratt				
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	199-104	40-59A	30-59A							
		Kit also includ	des dust shields.							
					10-19	199-505 Seal Kit				
					10-19H	199-505 Seal Kit				
	199-105	40-113X	30-75X			î				
		Kit also includ	des dust shields.	•						
					10-19	199-505 Seal Kit				
					10-19H	199-505 Seal Kit				
Stop Starduster										
/-Star SA-900, Starlet SA-500,	199-103	40-78J	30-9C							
Starduster Too SA-300, Acroduster Too SA-750,		Kit also includes dust shields.								
SA100 Starduster One,					10-20	199-505 Seal Kit				
SA101 Super Starduster,	199-104	40-59A 30-59A								
SA-500 Starlet, SA-900 V-Star, SA101 Super Starduster		Kit also includ	des dust shields.		1	T	Г			
5ATOT Super Startuster					10-21	199-506 Seal Kit				
Ultravia Aero Int'l										
Pelican PL912/914	199-102	40-78B	30-9							
		Kit also includes dust shields.								
				40-77C	10-20	199-505 Seal Kit				
Vans Aircraft										
RV-3 thru RV-9	199-102	40-78B	30-9							
		Kit also includ	des dust shields.	•						
				40-77C	10-30	199-512 Seal Kit				
RV-10	199-104	40-59A	30-59A							
		Kit also includ	des dust shields.	•						
				40-77C	10-30	199-512 Seal Kit				
Velocity Aircraft			<u> </u>							
SE / XL	199-60	40-75B	30-52							
		1	1	1			L			

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

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#### **Applicability Data**

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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,		Kit also includes dust shields.								
Super Sport, Wag-a-bond Traveler, 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), Zipper, Cricket MC-15, Stol CH-701	199-102	40-78B	30-9						
		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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### Product Conversion Kit Directory Wheel & Brake Ship Set

#### **Applicability Data**

	Order Code	Tire	Wheel	Standard	Chrome	Brake			
Description	Number	Size	Assy	Disc	Disc	Assy	Lining	Type	Comments

Description	Number	Size	Assy	Disc	Disc	Assy	Lining	Туре	Comments
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

Aircraft Wheel & Brake Division
Parker Aerospace
Parker Hannifin Corporation
1160 Center Road
Avon, Ohio 44011

www.clevelandwheelsandbrakes.com www.parker.com

E-mail: clevelandwbhelp@parker.com Customer Support Fax: (440) 937-5409 Literature Request: (440) 937-1315 Technical Service Hotline: 1-800-BRAKING

1-800-272-5464

