



U.S. Department
of Transportation
**Federal Aviation
Administration**

Small Airplane Directorate
Kansas City, Manufacturing Inspection
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October 24, 2006

Mr. Roy Scott
Quality Assurance Manager
Aviation Products Systems, Inc.
3701 Highway 162
Granite City, IL 62040

Project No. PQ3830CE

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Per 14 CFR Part 21, Subpart K, we found design data submitted with your letter dated October 17, 2006 to meet the airworthiness requirements of the regulations for the products on which the parts are to be installed. We based our finding on Test and Computation. Also, we determined that your company set up the fabrication inspection system at 3701 Highway 162, Granite City, Illinois as required by 14 CFR § 21.303(h). Therefore, we grant Parts Manufacturing Approval (PMA), which authorizes you to produce the replacement parts in the enclosed Supplement No 6.

We remind you that the provisions of 14 CFR, noted in our PMA letter of approval dated May 8, 2002, also apply to the enclosed PMA Listing-Supplement No.6. Please keep the enclosed supplement with the original PMA letter as evidence of approval to produce the parts concerned.

Sincerely,

David N. Surguy,
Aviation Safety Inspector
Kansas City, Manufacturing Inspection
District Office

Enclosure

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

Aviation Products Systems, Inc.
3701 Highway 162
Granite City, IL 62040

PMA No: PQ3830CE
Supplement No. 6
Date: October 24, 2006

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For Part NO.</u>	<u>Approval Basis and Approved Design Data</u>	<u>MAKE Eligibility:</u>	<u>MODEL Eligibility:</u>
Lining - Brake	APS066-07300	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 066-07300 as used with Brake Discs 164-07400, 164-20600, 164-20700	Test and Computations per 14CFR § 21.303 <u>Drawing:</u> APS066-07300 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 Or later FAA approved revision.	The New Piper Aircraft Inc;	PA-42, PA-42-720, PA-31T2
Lining - Brake	APS066-09000	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 066-09000 as used with Brake Discs 164-07200, 164-20900, 164-22000, 164-22900	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-00806 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company Twin Commander Mitsubishi; Raytheon Aircraft Company;	441 TWIN COMMANDER 500, 500-A, 500-B, 500-S, 500-U 560-F, 680-F, 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B; MITSUBISHI MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60; BEECH 3N, 3NM, 3TM, D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, C-45H, RC-45J, TC-45G, TC-45H, TC-45J, 65-A90-4, B90, C90, C90A, E90, JRB-665, 65-80, 65-88, 65-A80, 65-B80, A65, 70

Brake Disc	APS164-00806	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-00806	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-00806 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 190, 195, 195A-B, 310, 310A-J, 310J-1, 310K-L, 310N, 310P-R, E310H, E310J, T310P, T310Q, T310R, 335, 340, 340A, 401, 401A, 401B, 411, 411A, 414
Brake Disc	APS164-01406	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-01406	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-01406 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 310, 310A-J, 310J-1, 310K, 310L, 310N, 310P, 310Q, 310R, 320, 320-1, 320A-F, E310H-J, T310P, T310Q, T310R
Brake Disc	APS164-03006	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-03006	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-03006 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Air Tractor Cessna Piper AgCat Weatherly	AIR TRACTOR AT-300, AT-301, AT-302, AT-302A, AT-400A; CESSNA A188B;T188C; PIPER PA-36-285, PA-36-300, PA-36-375; AGCAT G-164A; WEATHERLY 201A, 201B, 201C, 620, 620A, 620B, 620TP
Brake Disc	APS164-03106	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-03106	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-03106 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA A188B, T188C
Brake Disc	APS164-03506	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-03506	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-03506 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft, Inc.	PIPER PA-31-300
Brake Disc	APS164-03906	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-03906	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-03906 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft Inc.	PIPER PA-31T
Brake Disc	APS164-04406	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-04406	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-04406 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft Inc.	PIPER PA-31-325, PA-31-350

Brake Disc	APS164-05006	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-05006	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-05006 <u>Rev:</u> A <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	AeroStar Aircraft Corp; Twin Commander	AEROSTAR PA-60-600, PA-60-601, PA-60-601P, PA-60-700P ; TWIN COMMANDER 700
Brake Disc	APS164-05500	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-05500	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-05500 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft	CESSNA 425
Brake Disc	APS164-05606	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-05606	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-05606 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Air Tractor Ayres	AIR TRACTOR AT-401, AT-401A AYRES S2R-600, S2R-800
Brake Disc	APS164-05806	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-05806	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-05806 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Air Tractor Ayres AgCat	AIR TRACTOR AT-400, AT-402, AT-501, AT-502, AT-503, AT-503A; AYRES S2R-600, S2R-600-T66, S2R-800; AGCAT G-164B, G-164C, G-164D
Brake Disc	APS164-06106	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-06106	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-06106 <u>Rev:</u> A <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company	BEECH B60
Brake Disc	APS164-06306	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-06306	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-06306 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	DeHavilland Raytheon Aircraft Company	DEHAVILLAND DHC-2 (L-20A) Mk.I, Mk. II, Mk. III; BEECH 50(L-23A), B50(L-23B, L-23D, RL-23D), C50, D50, (L-23E), D50A, D50B, D50C, D50E, E50, F50, G50, H50, J50
Brake Disc	APS164-06406	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-06406	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-06406 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 340, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421C

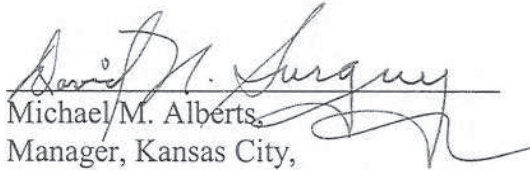
Brake Disc	APS164-07200	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-07200	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-07200 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Twin Commander Mitsubishi	TWIN COMMANDER 560-F, 680-F, 680FL, 680FL(P), 680T, 680V, 680W, 681, 685, 690, 690A, 690B, 690C, 690D, 695, 695A, 695B; MITSUBISHI MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60
Brake Disc	APS164-07400	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-07400	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-07400 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft, Inc.	PIPER PA-42, PA-42-720
Brake Disc	APS164-07700	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-07700	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-07700 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft, Inc.	PIPER PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P
Brake Disc	APS164-07906	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-07906	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-07906 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft, Inc.	PIPER PA-31--325, PA-31-350
Brake Disc	APS164-09100	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-09100	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-09100 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 404
Brake Disc	APS164-20206	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20206	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20206 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 310, 310A-J, 310J-1, 310K, 310L, 310N, 310P, 310Q, 310R, E310H, E310J, T310P, T310Q, T310R, 340, 340A
Brake Disc	APS164-20306	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20306	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20306 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 340, 340A, 401, 401A, 401B, 402 Series, 411, 411A, 414, 414A, 421, 421A, 421B, 421C

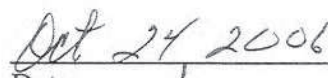
Brake Disc	APS164-20600	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20600	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20600 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft, Inc.	PIPER PA-31T2
Brake Disc	APS164-20700	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20700	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20700 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 441
Brake Disc	APS164-20806	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20806	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20806 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company	BEECH 58P, 58TC, B60
Brake Disc	APS164-20900	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-20900	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-20900 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company Fairchild Aircraft	BEECH 3N, 3NM, 3TM, D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, C-45H, RC-45J, TC-45G, TC-45H, TC-45J, 65- A90-4, B90, C90, C90A, E90, JRB-6 FAIRCHILD SA26-AT, SA26-T
Brake Disc	APS164-21000	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-21000	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-21000 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company	BEECH F90, 99, 99A, A99A, B99, C99, 100, A100, 200, 200C, 200CT, 200T, A200, A200C, A200CT, B100, B200, B200C, B200CT, B200T
Brake Disc	APS164-21900	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-21900	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-21900 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	The New Piper Aircraft Company	PIPER PA-31-350
Brake Disc	APS164-22000	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-22000	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-22000 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Twin Commander	TWIN COMMANDER 500, 500-A, 500-B, 500-S, 500-U

Brake Disc	APS164-22201	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-22201	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-22201 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Cessna Aircraft Company	CESSNA 208, 208B
Brake Disc	APS164-22202	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-22202	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-22202 <u>Rev:</u> B <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Air Tractor Ayres	AIR TRACTOR AT-602; AYRES Thrush S2R-660
Brake Disc	APS164-22400	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-22400	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-22400 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company deHaviland	BEECH 3N, 3NM, 3TM, D18C, D18S, E18S, E18S-9700, G18S, H18, C45G, C-45H, RC-45J, TC-45G, TC-45H, TC-45J, JRB-6; DEHAVILAND DHC-6-1-100, DHC-6-1-200, DHC-6-1-300
Brake Disc	APS164-22900	Parker Hannifin Corp. (formerly Cleveland Wheels & Brakes) P/N 164-22900	Test and Computations Per 14 CFR § 21.303 (c), AVPRO <u>Drawing:</u> APS164-22900 <u>Rev:</u> N/C <u>Dated:</u> 19 Oct 2005 or later FAA approved revision.	Raytheon Aircraft Company	BEECH 65, 65-80, 65-88, 65-A80, 65-B80, A65, 70

-----End of Listing-----

NOTE: provide minor design changes in a manner as determined by the ACO. Handle Major design changes to drawings and specifications in the same manner as that for an Original FAA-PMA. If TC holder's ICA applies to these replacement parts, provide a statement noting such. If not provide supplementary ICA per 14CFR § 21.50.

for 
 Michael M. Alberts,
 Manager, Kansas City,
 Manufacturing Inspection District Office


 Date: 10/24/2006