

UNAPPROVED PARTS NOTIFICATION

NO. 96-269
April 13, 1999

AFFECTED AIRCRAFT: Twin Commander Model 680, 685, and 690 Series; Raytheon (formerly Beech) Model 65 and 90 Series; Cessna Model 310, 320, 340, 401, 402, 411, 414, and 421 Series; Piper Model PA-23 and PA-24 Series.

Note: Additional aircraft manufacturer's models may be affected; however, specific information pertaining to these aircraft is unknown at this time.

PURPOSE: This notification is to advise all owners, operators, maintenance entities, and manufacturers of the above listed airplanes that unapproved fuel cells were sold and may have been installed on these airplanes.

BACKGROUND: During a suspected unapproved parts investigation, the Federal Aviation Administration (FAA) determined that Duraflex Fuel Cells Corporation and Fuel Cells Maintenance, Inc., located in Little Rock, Arkansas, sold certain bladder fuel cells which were not FAA approved. Duraflex Fuel Cells Corporation produced bladder fuel cells and Fuel Cells Maintenance, Inc., repaired bladder fuel cells. The production and repair of these fuel cells were accomplished in such a manner that they do not meet FAA approved design requirements and as a result are not eligible for installation on type certificated airplanes. The possibility of fuel leakage may occur if these fuel cells are used in service. The majority of these fuel cells were sold to A C Team (previously known as A C Fuel Cells Worldwide, Inc.), located in Memphis, Tennessee. These parts were manufactured and/or repaired between August 1, 1996, and November 24, 1997. The part numbers and serial numbers of the affected bladder fuel cells are listed as follows.

<u>Part Numbers</u>	<u>Serial Numbers</u>										
DF054-320	F2380	F2573	F2784	F2843	F2882	F2886	F2928	F3001	F3410	F3577	F3641
	F2381	F2574	F2785	F2844	F2883	F2887	F2972	F3002	F3437	F3578	
	F2393	F2575	F2786	F2845	F2884	F2926	F2973	F3003	F3513	F3593	
	F2394	F2672	F2787	F2846	F2885	F2927	F3000	F3399	F3514	F3640	

<u>Part Numbers</u>	<u>Serial Numbers</u>										
DF054-321	F1122	F2565	F2578	F2719	F2888	F2931	F2977	F3369	F3439	F3642	F3655
	F2423	F2566	F2676	F2747	F2889	F2932	F2978	F3370	F3515	F3643	F3684
	F2424	F2567	F2702	F2748	F2890	F2974	F2979	F3400	F3516	F3644	F3685
	F2482	F2576	F2703	F2757	F2929	F2975	F3300	F3411	F3517	F3647	
	F2491	F2577	F2718	F2758	F2930	F2976	F3352	F3438	F3594	F3654	
DF054-324	F2395	F2396	F2416	F2891	F2933	F2934	F3118	F3164	F3165	F3176	F3253
DF054-325	F2377	F3100	F3101	F3120	F3132	F3133	F3154	F3155	F3177	F3353	
DF054-334	F2406	F2417	F2579	F2675	F2951	F2980	F2982	F3062	F3260	F3301	
	F2407	F2418	F2580	F2892	F2952	F2981	F2983	F3119	F3330	F3354	
DF054-335	F2378	F2410	F2490	F2665	F2893	F2985	F3134	F3167	F3178		
	F2379	F2411	F2552	F2788	F2984	F3121	F3166	F3168	F3435		
DF060-501	F1203	F1207	F2778	F3147	F3546	F3547					
DF060-502	F1206	F2389	F2469	F2877	F3429	F3548	F3549				
DF060-507	F724	F2468	F2997								
DF060-508	F2992										
DF061-501	F1117	F2878	F2999	F3358	F3552						
DF061-502	F2471	F2879	F3149	F3153	F3359	F3550	F3551				
DF061-507	F791	F2470	F2572	F2782	F2783						
DF062-507	F2392	F2504	F2505	F2506	F2507	F2508	F3398	F3624			
DF063-502	F3245	F3630									
DF063-507	F3050	F3246									
DF063-508	F3051	F3052	F3053	F3631							
DF064-501	F3247	F3635	F3636								
DF064-502	F3235	F3236									
DF064-508	F3244										
DF064-509	F3054	F3248									
DF064-510	F3233	F3249	F3250								
DF0726001-10	F2400	F2674	F2731	F2863	F2898	F3371	F3412	F3542			
	F2401	F2706	F2732	F2864	F2899	F3401	F3440	F3543			
DF0726001-12	F2707	F2821	F3005	F3006							
DF0726001-15	F3137	F3402	F3413	F3441							
DF0726001-16	F2708	F3007	F3063	F3099							
DF0726001-17	F1087	F2519	F2608	F2696	F3197	F3255	F3302	F3415	F3445	F3596	F3665
	F2459	F2556	F2609	F2776	F3198	F3256	F3303	F3442	F3446	F3597	F3666
	F2461	F2606	F2610	F3179	F3216	F3275	F3346	F3443	F3518	F3598	
	F2518	F2607	F2677	F3180	F3217	F3276	F3414	F3444	F3519	F3663	
DF0726001-18	F2460	F2520	F2563	F2612	F2614	F2697	F3181	F3200	F3520	F3599	F3649
	F2496	F2521	F2611	F2613	F2678	F3138	F3199	F3449	F3521	F3648	
DF0726001-19	F2900										

<u>Part Numbers</u>	<u>Serial Numbers</u>										
DF0726001-20	F3008										
DF0726001-22	F674	F2709	F2710								
DF0726001-24	F2462	F2522	F3218	F3265	F3305	F3447	F3564	F3584	F3667	F3712	
	F2463	F2523	F3219	F3266	F3348	F3448	F3571	F3600	F3668	F3713	
	F2497	F2524	F3220	F3304	F3349	F3450	F3583	F3601	F3711		
DF0726001-9	F2604	F2664	F2730	F2800	F2862	F2971	F3139	F3331	F3347	F3432	F3452
	F2605	F2729	F2799	F2861	F2966	F3098	F3182	F3332	F3372	F3451	F3522
104-920018-3	F2639										
DF1200065-1	F3185										
DF1200065-10	F3016	F3089									
DF1200065-12	F1118	F2533	F2591	F2723	F2918	F3017	F3157	F3462	F3554	F3676	
	F2427	F2534	F2646	F2759	F2919	F3018	F3334	F3498	F3607	F3677	
	F2428	F2535	F2654	F2769	F2936	F3019	F3335	F3504	F3608		
	F2464	F2588	F2720	F2789	F2937	F3020	F3339	F3505	F3650		
	F2465	F2589	F2721	F2916	F2967	F3084	F3418	F3538	F3660		
	F2532	F2590	F2722	F2917	F2968	F3156	F3461	F3539	F3675		
DF1200065-13	F2492	F2568	F2685	F2894	F2953	F3085	F3280	F3341	F3465		
	F2537	F2592	F2724	F2895	F2954	F3086	F3281	F3392	F3472		
	F2538	F2593	F2725	F2920	F3022	F3186	F3296	F3419	F3529		
	F2539	F2647	F2726	F2921	F3021	F3187	F3297	F3463	F3530		
	F2555	F2648	F2770	F2922	F3023	F3269	F3340	F3464	F3573		
DF1200065-2	F3503										
DF1200065-23	F954	F2399	F2598	F2833	F2870	F3270	F3311	F3390	F3469	F3580	F3689
	F1032	F2429	F2686	F2834	F2956	F3271	F3312	F3391	F3470	F3581	
	F1042	F2430	F2693	F2835	F2957	F3282	F3313	F3393	F3471	F3582	
	F1043	F2494	F2771	F2836	F2958	F3283	F3314	F3394	F3555	F3656	
	F1045	F2495	F2790	F2865	F2998	F3284	F3345	F3395	F3556	F3657	
	F1046	F2594	F2791	F2866	F3075	F3285	F3365	F3420	F3566	F3658	
	F1136	F2595	F2792	F2867	F3076	F3286	F3366	F3466	F3567	F3686	
	F2397	F2596	F2793	F2868	F3077	F3287	F3388	F3467	F3572	F3687	
	F2398	F2597	F2832	F2869	F3078	F3288	F3389	F3468	F3579	F3688	
DF1200065-24	F961	F2600	F2760	F2842	F2938	F3159	F3289	F3362	F3476	F3611	F3692
	F1048	F2601	F2794	F2871	F2939	F3201	F3298	F3363	F3477	F3612	F3693
	F1054	F2602	F2795	F2872	F2969	F3202	F3315	F3407	F3478	F3613	F3694
	F1055	F2603	F2796	F2873	F2970	F3207	F3342	F3408	F3479	F3614	F3695
	F1062	F2687	F2837	F2874	F3079	F3208	F3343	F3423	F3480	F3659	
	F1132	F2704	F2838	F2875	F3080	F3209	F3344	F3428	F3531	F3661	
	F1140	F2705	F2839	F2876	F3094	F3210	F3344A	F3473	F3532	F3662	
	F2564	F2727	F2840	F2896	F3095	F3267	F3360	F3474	F3609	F3690	
	F2599	F2728	F2841	F2897	F3158	F3268	F3361	F3475	F3610	F3691	

<u>Part Numbers</u>	<u>Serial Numbers</u>										
DF1200065-25	F1160	F2797	F2798	F3116							
DF1200065-3	F1116	F2493	F2558	F2582	F3011	F3171	F3499	F3540	F3615		
	F2425	F2536	F2562	F2583	F3117	F3225	F3500	F3541	F3616		
	F2451	F2557	F2581	F2955	F3170	F3481	F3501	F3545			
DF1200065-4	F2426	F2529	F2531	F2585	F2587	F3012	F3338	F3364	F3421	F3482	
	F2452	F2530	F2584	F2586	F2768	F3333	F3357	F3377	F3422		
DF1200065-5	F2712	F2713	F2714	F3701	F3702						
DF1200065-6	F2644	F2645	F2653	F2746	F3141	F3188	F3262	F3263			
DF1200065-9	F3013	F3014	F3015	F3065	F3066	F3087	F3088				
DF204-501	F2666	F3264	F3396	F3397	F3625	F3626	F3627	F3396	F3397		
DF296-1	F3059	F3237	F3240	F3337	F3629						
DF296-2	F3037	F3038									
DF301-1	F3036	F3039	F3040	F3041							
DF301-2	F3042	F3043	F3234	F3241							
DF301-501	F3238	F3239									
DF301-502	F3242	F3243									
DF302-1	F995	F3044	F3045	F3046	F3558	F3632	F3633				
DF302-2	F3047	F3048	F3049	F3634							
DF304-1	F2472	F2880	F2881	F2994	F2993	F3628					
DF304-2	F2473	F2548	F2549	F2571	F2779	F2995	F2996	F3699			
DF307-1	F2390	F2391	F2474	F2481	F2509	F2780	F2781				
DF307-2	F2475										
DF308-1	F728	F3058	F3067	F3083	F3146						
DF308-2	F729										
DF35-9009-1S	F1095	F2479	F2629	F2755	F2950	F3033	F3071	F3203	F3424	F3544	F3715
	F1186	F2510	F2630	F2777	F2988	F3034	F3142	F3204	F3425	F3620	
	F1187	F2511	F2631	F2819	F2989	F3035	F3143	F3324	F3490	F3621	
	F2476	F2512	F2671	F2914	F2990	F3068	F3148	F3325	F3491	F3671	
	F2477	F2513	F2689	F2915	F2991	F3069	F3172	F3403	F3492	F3672	
	F2478	F2514	F2692	F2949	F3032	F3070	F3173	F3404	F3536	F3714	
DF35-9009-2S	F1096	F2516	F2636	F2766	F2814	F2824	F3230	F3321	F3406	F3568	F3664
	F1188	F2517	F2637	F2767	F2815	F2825	F3231	F3322	F3493	F3569	F3673
	F1190	F2632	F2663	F2810	F2816	F2947	F3257	F3323	F3494	F3622	F3674
	F2431	F2633	F2745	F2811	F2817	F2948	F3258	F3405	F3495	F3623	F3716
	F2432	F2634	F2744	F2812	F2822	F3205	F3259	F3426	F3496	F3645	F3717
	F2515	F2635	F2765	F2813	F2823	F3206	F3261	F3427	F3537	F3646	
DF35-921242-11	F2649	F2655	F3144	F3145	F3174	F3175					
DF35-921242-12	F2433	F2434									
DF361-507	F1126										

<u>Part Numbers</u>	<u>Serial Numbers</u>										
DF461-705	F1105	F1109	F1111	F2750	F2752	F2987	F3136	F3433	F3595	F3638	
	F1108	F1110	F2749	F2751	F2986	F3135	F3152	F3434	F3637	F3639	
DF461-712	F2445	F2446	F2550	F2551	F3553						
DF461-713	F2447	F2448	F2480	F2681	F3272						
DF461-714	F2439	F2440	F2488	F2489	F2682	F3072					
DF461-715	F2437	F2438	F2443	F2444	F2683	F3073	F3074				
DF461-720	F2441	F2442	F3081	F3082							
DF461-722	F2449	F2699	F2700	F2701							
DF461-723	F2450	F2553	F2680								
DF5026102-3	F1224	F2436	F2541	F2694	F2847	F2855	F2960	F3290	F3328	F3561	F3710
	F2385	F2457	F2542	F2711	F2848	F2908	F3009	F3291	F3329	F3562	
	F2386	F2458	F2543	F2738	F2849	F2909	F3024	F3292	F3378	F3563	
	F2403	F2483	F2623	F2739	F2850	F2910	F3025	F3293	F3379	F3696	
	F2408	F2484	F2624	F2740	F2851	F2911	F3026	F3294	F3380	F3697	
	F2412	F2500	F2625	F2774	F2852	F2940	F3096	F3295	F3381	F3698	
	F2413	F2501	F2659	F2775	F2853	F2941	F3097	F3316	F3382	F3708	
	F2435	F2540	F2660	F2818	F2854	F2959	F3150	F3317	F3383	F3709	
DF5026102-4	F1079	F2486	F2626	F2743	F2858	F2935	F3189	F3320	F3486	F3560	
	F1216	F2487	F2627	F2805	F2859	F2942	F3190	F3384	F3487	F3570	
	F2387	F2502	F2628	F2806	F2860	F2943	F3226	F3385	F3488	F3574	
	F2388	F2503	F2661	F2807	F2912	F2961	F3227	F3386	F3489	F3575	
	F2409	F2544	F2662	F2808	F2913	F2962	F3228	F3387	F3533	F3576	
	F2414	F2545	F2695	F2809	F2923	F3055	F3229	F3483	F3534	F3617	
	F2415	F2546	F2741	F2856	F2924	F3056	F3318	F3484	F3535	F3618	
	F2485	F2547	F2742	F2857	F2925	F3057	F3319	F3485	F3559	F3619	
DF823343-5	F2453	F2820	F3151	F3651							
DF823343-6	F2454	F2615	F2616	F2670	F2801	F3064	F3140	F3115	F3169		
DF823362-1	F1070	F2617	F2717	F3416	F3453	F3454	F3588	F3652			
	F2419	F2656	F3409	F3417							
DF823362-2	F898	F2420	F2679	F3336	F3373	F3374	F3502	F2384			
DF823362-3	F1218	F2618	F2673	F2734	F2773	F2903	F3027	F3212	F3307	F3585	F3704
	F2382	F2619	F2688	F2735	F2826	F2904	F3028	F3221	F3308	F3586	
	F2455	F2657	F2691	F2753	F2827	F2944	F3029	F3222	F3524	F3587	
	F2466	F2667	F2715	F2754	F2828	F2945	F3090	F3254	F3525	F3602	
	F2467	F2668	F2716	F2756	F2901	F2963	F3091	F3277	F3526	F3603	
	F2498	F2669	F2733	F2772	F2902	F3010	F3211	F3306	F3565	F3703	

Part Numbers	Serial Numbers										
DF823362-4	F1119	F2422	F2620	F2658	F2829	F2964	F3163	F3279	F3455	F3604	F3706
	F1127	F2456	F2621	F2690	F2830	F2965	F3183	F3309	F3456	F3605	F3707
	F1213	F2499	F2622	F2736	F2831	F3030	F3223	F3310	F3457	F3606	
	F1221	F2525	F2640	F2737	F2905	F3031	F3224	F3350	F3458	F3653	
	F2383	F2526	F2641	F2802	F2906	F3092	F3251	F3351	F3459	F3669	
	F2402	F2527	F2642	F2803	F2907	F3093	F3252	F3375	F3527	F3670	
	F2421	F2528	F2643	F2804	F2946	F3162	F3278	F3376	F3528	F3705	
DF823362-5	F3184	F3460									
DF823362-6	F2638										
95-920011-13	F2404	F2559	F2561	F2650	F2652	F2762	F3060				
	F2405	F2560	F2569	F2651	F2761	F3004	F3061				
95-920011-14	F2570	F2684	F2698	F2763	F2764	F3106					
B0803-1	F3107										
B0804-1	F3102										
B2811-1	F3103										
B2812-1	F3108										
B4201-1	F3109										
B4202-1	F3355										
B5013-1	F3326	F3356									
B5014-1	F3160	F3327	F3430	F3431							
B6111-1	F3104	F3161									
B6112-1	F3105	F3122									
P4612-1	F2554	F3123	F3193	F3194							
P4612-2	F3110	F3508	F3509	F3589	F3590	F3700	F3718				
P4612-4	F3678										
P4612-5	F3113	F3114	F3124								
P4613-1	F3125	F3195	F3196	F3272	F3497	F3679	F3680	F3681	F3719		
P4613-2	F3506	F3507	F3510	F3511							
P4613-3	F3111	F3112	F3591								
P4613-4	F3126										
P4614-1	F3127	F3128	F3130	F3273	F3274	F3299	F3436	F3682	F3683		
P4614-2	F3129	F3131	F3232	F3367	F3368						
P4615-1	F3213										
P4615-2	F3214	F3215	F3512	F3592							
P4615-3	F3191										
SA3426	F3192										
SA4251	F3557										

Note: The FAA as a result of its investigation compiled this list. If you have any information which identifies additional parts not listed above, as suspect, please contact the FAA under **“FURTHER INFORMATION.”**

RECOMMENDATION: Regulations require that type certificated products conform to their type design. Airplane owners, operators, maintenance entities, and manufactures should inspect their airplanes or stock for the listed part numbers and serial numbers. Verify the FAA approval status of parts purchased from Duraflex Fuel Cells Corporation or repaired by Fuel Cells Maintenance, Inc. If any of the parts are installed, appropriate action should be taken. If any of the parts identified in the above list are found in existing aircraft parts stock, it is recommended that the parts be quarantined to prevent installation until a determination can be made regarding each part's eligibility for installation.

FURTHER INFORMATION: The FAA Manufacturing Inspection Office (MIO), listed below, would appreciate any information concerning the discovery of these parts from any source, the means used to identify the source, and the actions taken to remove them from the aircraft and/or stock. This notice originated from the Fort Worth MIO, 2601 Meacham Boulevard, Fort Worth, TX 76137-4298, telephone (817) 222-5180, Fax (817) 222-5995, and was published through the Suspected Unapproved Parts Program Office, AVR-20, at (703) 661-0580, Fax (703) 661-0113.