



SERVIÇO PÚBLICO FEDERAL  
DEPARTAMENTO DE AVIAÇÃO CIVIL

# DIRETRIZ DE AERONAVEGABILIDADE

DATA DE EFETIVIDADE:

27 Agosto 1984

DA Nº:

84-08-01

Esta Diretriz de Aeronavegabilidade (DA), emitida pelo Departamento de Aviação Civil (DAC) com base no Capítulo IV do Título III do Código Brasileiro de Aeronáutica - Lei Nº 7.565 de 19 de dezembro de 1986 - e no Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 39, aplica-se a todas as aeronaves registradas no País. Nenhuma aeronave à qual se aplica esta DA pode ser operada exceto após o cumprimento da mesma dentro dos prazos nela estabelecidos.

## **DA Nº 84-08-01 - SCOTT AVIATION - Emenda 1301/01-383.**

Foi constatado que cilindros de oxigênio da SCOTT AVIATION, distribuídos no período compreendido entre 16 de maio e 22 de setembro de 1983, foram carregados, inadequadamente, com oxigênio diluído cujo uso poderá degradar o desempenho de tripulantes de aeronaves, pondo em risco a segurança de vôo.

Como essa condição pode existir em outros cilindros distribuídos no período considerado, esta Diretriz de Aeronavegabilidade está sendo emitida para determinar o cumprimento de medidas corretivas.

Considerando que a situação existente requer a adoção imediata de uma ação corretiva, fica configurada a causa justa para impor, sem prévio aviso, o cumprimento desta Emenda no menor prazo possível.

Em função do exposto acima, o RBHA 1301/01 fica modificado pela adição da presente Diretriz de Aeronavegabilidade:

DA Nº 84-08-01 - SCOTT AVIATION - Emenda 1301/01-383, aplicável a todas as aeronaves equipadas com cilindros de oxigênio da SCOTT AVIATION distribuídos no período de 16/05/83 a 22/09/83 e listados no SCOTT AIRWORTHINESS ALERT de 09 Set 83, Revisão de 12 Dez 83, anexado a esta DA.

O cumprimento desta DA deve ser efetuado como indicado a seguir:

Para prevenir o uso de cilindros carregados com oxigênio impróprio para o uso em aeronaves, os cilindros afetados devem ser totalmente descarregados e recarregados com oxigênio respirável para aviadores (100% de O<sub>2</sub>), segundo a norma MIL-O-27210E, obedecendo às condições e prazos abaixo estabelecidos, a contar da efetivação desta DA:

- 1) Aeronaves não pressurizadas - antes do primeiro vôo acima de 4.267m (14.000 pés).
- 2) Aeronaves pressurizadas - nas próximas 500 horas de operação.
- 3) A data limite para cumprimento desta DA, incluindo aeronaves pressurizadas e não pressurizadas, é 15 de novembro de 1984.
- 4) Após executar os procedimentos determinados, marque cada cilindro com um ponto de tinta branca, de aproximadamente 1 cm de diâmetro, depois do número de série, para evidenciar o cumprimento desta DA. Cilindros que tenham sido previamente recarregados, como indicado nesta DA, e que tenham registro apropriado da recarga, poderão ser marcados com o ponto branco sem necessidade de reter o recarregamento.

Registre a aplicação desta DA no documento aplicável.

Esta Diretriz de Aeronavegabilidade tem como referência a SCOTT AIRWORTHINESS ALERT de 27 de setembro de 1983, revisada em 12 de dezembro de 1983.

Os procedimentos desta DA aplicáveis às aeronaves EMB-711ST "CORISCO II", EMB-810C "SENECA II" e EMB-820D "SENECA III" estão, também, descritos nos Boletins de Serviço EMBRAER n°s 800-35-002 e 700-35-001.

Esta Emenda torna-se efetiva em 27 Ago 1984.

Maj Brig do Ar - HUGO DE OLIVEIRA PIVA  
Diretor do CTA

**NOTA:** Original da DA assinado e emitido em 27 Ago 1984. Este documento foi reeditado em formato eletrônico em 20 Dez 2000 e seu texto é idêntico ao original.

September 27, 1983  
Revised December 12, 1983

SCOTT AIRWORTHINESS ALERT

This Alert is to notify all Scott customers of a probable oxygen dilution in Scott high pressure oxygen cylinder assemblies delivered between May 16th and September 22, 1983.

The Scott part numbers and specific serial numbers affected are made a part of this Alert.

The cause of this condition has been traced to one of our high pressure oxygen charging stations. This condition has been corrected.

Laboratory analysis of this gas meets all purity requirements, having actual oxygen content ranging from 92% to 62% by volume. Oxygen content should be 99.5% by volume\* per MIL-O-27210E.

In view of this probable dilution of the oxygen content, we are requesting that all cylinders affected be immediately bled down and recharged with 100% oxygen per MIL-O-27210E.

For further information contact:

Albert Gerber, Director  
Quality Assurance & Reliability

M. R. (Jim) Kaletta, Vice President  
Sales & Marketing - Aviation/Military Products

Scott Aviation  
225 Erie Street  
Lancaster, New York 14086  
PHONE: (716) 683-5100

\* The oxygen required in inspired air in a pressurized aircraft will depend on the cabin pressure, and is cited at 62% in unpressurized aircraft for altitudes up to 25,000 ft. above sea level. (Extracted from DOT, FAA Civil Aeromedical Institute Physiological Operations Manual.)

SCOTT AVIATION - A FIGGIE INTERNATIONAL COMPANY  
225 Erie Street, Lancaster, NY 14086 Tel: 716-683-5100 Telex:91-394

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
AEROSPATIALE	891411-14	5/19/83	26840	65303Y	12/82
	891411-14	5/19/83	26841	65314Y	12/82
	891411-14	5/19/83	26842	65296Y	12/82
AEROSPATIALE	891511-14	5/26/83	26941	67308Y	5/83
	891511-14	5/26/83	26942	67303Y	5/83
	891511-14	5/26/83	26943	67251Y	5/83
	891511-14	5/26/83	26944	67217Y	5/83
	891511-14	5/26/83	26945	67266Y	5/83
	891511-14	5/26/83	26946	67273Y	5/83
AEROSPATIALE	891411-14	7/12/83	27048	65371Y	7/83
	891411-14	7/12/83	27049	65337Y	7/83
	891411-14	7/12/83	27050	65372Y	7/83
	891411-14	7/12/83	27051	65370Y	7/83
	891411-14	7/12/83	27052	65363Y	7/83
	891411-14	7/12/83	27053	65349Y	7/83
	891411-14	7/12/83	27054	65359Y	7/83
	891411-14	7/12/83	27055	65328Y	7/83
	891411-14	7/12/83	27056	65350Y	7/83
	891411-14	7/12/83	27057	65351Y	7/83
	891411-14	7/12/83	27058	65355Y	7/83
	891411-14	7/12/83	27059	65344Y	7/83

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AUTOFLUG	6350A5-0-B	8/5/83	Thermo	11078Y	5/83
	6350A5-0-B	8/5/83	Thermo	11080Y	5/83
	6350A5-0-B	8/5/83	Thermo	11094Y	5/83
	6350A5-0-B	8/5/83	Thermo	11132Y	5/83
	6350A5-0-B	8/5/83	Thermo	11205Y	5/83
	6350A5-0-B	8/5/83	Thermo	11234Y	5/83
	6350A5-0-B	8/5/83	Thermo	12824Z	5/83
	6350A5-0-B	8/5/83	Thermo	12847Z	5/83
AUTOFLUG	6350A5-0-B	8/5/83	Thermo	11065Y	7/83
	6350A5-0-B	8/5/83	Thermo	11134Y	7/83
	6350A5-0-B	8/5/83	Thermo	11244Y	7/83
	6350A5-0-B	8/5/83	Thermo	11245Y	7/83
	6350A5-0-B	8/5/83	Thermo	12821Z	7/83
	6350A5-0-B	8/5/83	Thermo	12822Z	7/83
	6350A5-0-B	8/5/83	Thermo	12823Z	7/83
	6350A5-0-B	8/5/83	Thermo	12825Z	7/83
	6350A5-0-B	8/5/83	Thermo	12830Z	7/83
	6350A5-0-B	8/5/83	Thermo	12840Z	7/83
	6350A5-0-B	8/5/83	Thermo	12844Z	7/83
	6350A5-0-B	8/5/83	Thermo	12848Z	7/83
AUTOFLUG	6350A5-0-B	8/10/83	Thermo	11104Y	8/83
	6350A5-0-B	8/10/83	Thermo	11136Y	8/83
	6350A5-0-B	8/10/83	Thermo	11138Y	8/83
	6350A5-0-B	8/10/83	Thermo	11139Y	8/83
	6350A5-0-B	8/10/83	Thermo	11140Y	8/83
	6350A5-0-B	8/10/83	Thermo	11153Y	8/83
	6350A5-0-B	8/10/83	Thermo	11157Y	8/83
	6350A5-0-B	8/10/83	Thermo	11169Y	8/83
	6350A5-0-B	8/10/83	Thermo	11177Y	8/83
	6350A5-0-B	8/10/83	Thermo	11182Y	8/83
	6350A5-0-B	8/10/83	Thermo	11184Y	8/83
	6350A5-0-B	8/10/83	Thermo	11216Y	8/83
	6350A5-0-B	8/10/83	Thermo	11241Y	8/83
	6350A5-0-B	8/10/83	Thermo	11221Y	8/83
	6350A5-0-B	8/10/83	Thermo	11226Y	8/83
	6350A5-0-B	8/10/83	Thermo	11227Y	8/83
	6350A5-0-B	8/10/83	Thermo	11232Y	8/83
	6350A5-0-B	8/10/83	Thermo	11240Y	8/83
	6350A5-0-B	8/10/83	Thermo	11247Y	8/83
	6350A5-0-B	8/10/83	Thermo	11250Y	8/83
	6350A5-0-B	8/10/83	Thermo	11252Y	8/83
	6350A5-0-B	8/10/83	Thermo	12826Z	8/83
	6350A5-0-B	8/10/83	Thermo	12827Z	8/83
	6350A5-0-B	8/10/83	Thermo	12834Z	8/83
	6350A5-0-B	8/10/83	Thermo	12835Z	8/83
	6350A5-0-B	8/10/83	Thermo	12837Z	8/83
	6350A5-0-B	8/10/83	Thermo	12838Z	8/83
	6350A5-0-B	8/10/83	Thermo	12841Z	8/83
	6350A5-0-B	8/10/83	Thermo	12842Z	8/83
	6350A5-0-B	8/10/83	Thermo	12843Z	8/83
	6350A5-0-B	8/10/83	Thermo	12845Z	8/83
	6350A5-0-B	8/10/83	Thermo	12849Z	8/83
	6350A5-0-B	8/10/83	Thermo	12850Z	8/83
	6350A5-0-B	8/10/83	Thermo	12851Z	8/83
	6350A5-0-B	8/10/83	Thermo	12852Z	8/83

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
AUTOFLUG	6350A5-0-B	8/15/83	Thermo	068686	7/83
	6350A5-0-B	8/15/83	Thermo	068701	
	6350A5-0-B	8/15/83	Thermo	068757	
	6350A5-0-B	8/15/83	Thermo	068765	
	6350A5-0-B	8/15/83	Thermo	11161Y	8/83
AUTOFLUG	6350A33-WW-C	9/7/83	449 450	65433Y 65428Y	5/83
AUTOFLUG	8013C07-02	9/14/83	27172 27171	10037X 43191X	9/83
AUTOFLUG	801307-02			8799X* 8866X*	

\* Repairs

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BEECH	802890-02	5/19/83	1352	66953Y	4/83
			1353	66938Y	
			1354	67201Y	
			1355	66976Y	
			1358	67017Y	
			1359	66923Y	
			1360	66967Y	3/83
			1361	66995Y	4/83
			1362	66962Y	5/83
			1363	66965Y	5/83
			1364	67001Y	4/83
			1365	66913Y	
			1366	66979Y	
			1367	67015Y	
			1368	66929Y	
			1369	66949Y	
			1370	66982Y	
			1371	66922Y	
BEECH	801293-09	5/23/83	4663	65319Y	5/83
			4664	65291Y	
			4665	65298Y	
BEECH	801293-10	6/9/83	4671	65312Y	5/83
			4672	65302Y	
			4673	65257Y	3/83
			4674	65289Y	5/83
			4675	65318Y	
			4676	65323Y	
BEECH	801293-10	6/15/83	4677	65320Y	6/83
			4678	65324Y	
			4679	65384Y	5/83
			4680	65401Y	
			4681	65374Y	
			4682	65391Y	
			4683	65393Y	
			4684	65424Y	
			4685	65373Y	
			4686	65415Y	
			4687	65385Y	
			4688	65382Y	
			4689	65315Y	
			4690	65377Y	
			4691	65305Y	
BEECH	801293-09	6/16/83	4666	65317Y	5/83
			4667	65311Y	
			4668	65307Y	
			4669	65313Y	
			4670	65308Y	

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BEECH	801293-10	6/30/83	4692 4693 4694 4695 4696 4697 4698 4699 4700 4701	65417Y 65410Y 65402Y 65400Y 65408Y 65423Y 65396Y 65443Y 65439Y 65430Y	5/83
BEECH	801293-10	7/15/83	4702 4703 4704 4705 4706	65332Y 65361Y 65327Y 65353Y 65338Y	5/83
BEECH	801293-09	8/2/83	4716 4717 4720 4731 4732 4733	65364Y 65343Y 65335Y 65348Y 65341Y 65345Y	5/83
BEECH	801293-09	8/8/83	4708 4709 4710 4711 4712 4713 4714 4715 4723 4725 4726 4728 4730	65352Y 65342Y 65357Y 65333Y 65330Y 65329Y 65362Y 65356Y 65365Y 65339Y 65347Y 65366Y 65369Y	5/83
BEECH	801293-10	8/11/83	4738 4739 4740 4741 4742 4743 4744 4745 4746 4747 4748 4749	65344Y 65367Y 65346Y 65368Y 65386Y 65376Y 65397Y 65331Y 65390Y 65375Y 65404Y 65399Y	5/83
BEECH	895050-22	8/12/83	144 145	129 041	8/83



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BEECH	895050-50	8/15/83	140 141 142 143 149	137 034 035 143 147	8/83
BEECH	895050-22	8/15/83	146 147 148	131 030 085	8/83
BEECH	6350-A33-0-C	8/16/83	Thermo	65411Y 65419Y 65421Y 65422Y 65425Y 65432Y 65434Y 65435Y 65444Y	5/83
BEECH	802890-02	8/31/83	1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395	67077Y 67087Y 67081Y 67070Y 67074Y 67085Y 67091Y 67096Y 67069Y 67034Y 67041Y 67082Y 67058Y 67065Y 67071Y 67043Y	8/83
BEECH	801293-09	9/8/83	4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762	65406Y 65380Y 65394Y 65420Y 65405Y 65441Y 65398Y 65427Y 65412Y 65442Y 65414Y	5/83
BEECH	6350-A33-0-C	9/8/83	Thermo	65381Y 65388Y 65389Y 65395Y 65409Y 65413Y 65418Y 65426Y 65438Y 65440Y	5/83

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE</u> <u>CHARGED</u>	<u>VALVE</u> <u>or S/N</u>	<u>CYLINDER</u> <u>SERIAL NO.</u>	<u>CYLINDER</u> <u>DATE</u>
BEECH	801293-04			45673X*	
BEECH	801293-06			24956W*	
BEECH	801293-09			12459X*	
				12498X*	
				65164X*	
BEECH	801293-10			65264X*	
BEECH	6350A25-0-C			48877X*	
				48870Y*	
				13445Y*	
				49017X*	
				13450X*	
				13429X*	
				13438X*	
				14845Y*	

\* Repairs

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
BOEING	801307-00			4372X*	
				6628W*	
				6699W*	
				6703W*	
				6883N*	
				7120V*	
				8064V*	
				8436V*	
				8538V*	
				9203X*	
				9235X*	
				9453X*	
				9455X*	
				9464X*	
				9680X*	
				9696X*	
				9724X*	
				9757X*	
				9781X*	
				9785X*	
				9863X*	
				9867X*	
				9991X*	
		7/5/83	26994	010735	6/83
		7/5/83	27003	010736	6/83
		7/5/83	27004	010737	6/83
		7/5/83	26996	010739	6/83
		7/5/83	26992	010740	6/83
		7/5/83	26999	010742	6/83
		7/5/83	26995	010744	6/83
		7/13/83	27060	010745	6/83
		7/5/83	27001	010746	6/83
		7/5/83	26988	010747	6/83
		7/5/83	27000	010749	6/83
		7/5/83	26997	010751	6/83
		7/5/83	26989	010753	6/83
		7/5/83	26998	010755	6/83
		7/5/83	26987	010758	6/83
		7/5/83	26993	010760	6/83
		7/5/83	26985	010764	6/83
				10117X*	
				10123X*	
				10734Y*	
				11125X*	
				10495Y*	
				10846Y*	
				10936Y*	
				18022U*	
				42507X*	
				42690X*	
				42691X*	
				42750X*	
	801307-00			42755X*	
				42806X*	
				42821X*	

\* Repairs

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
BOEING				42822X*	
				42824X*	
				42832X*	
				42912X*	
				42915X*	
				42938X*	
				42942X*	
				42943X*	
				42946X*	
				42948X*	
				43019X*	
				43070X*	
				43114X*	
		6/14/83	26974	43146X	5/83
		7/5/83	26991	43160X	6/83
		7/5/83	26990	43175X	6/83
		7/5/83	27002	43176X	6/83
		7/5/83	26986	67119Y	3/83
				67191Y*	
		6/14/83	26970	67196Y	5/83
		7/5/83	26984	67206Y	5/83
		6/14/83	26966	67222Y	5/83
		6/14/83	26972	67226Y	5/83
		6/14/83	26973	67241Y	5/83
		6/14/83	26971	67249Y	5/83
		6/14/83	26965	67252Y	5/83
		6/14/83	26968	67262Y	5/83
		6/14/83	26969	67264Y	5/83
		5/18/83	26847	67280Y	5/83
		7/5/83	26983	67281Y	5/83
		6/14/83	26967	67293Y	5/83
		9/12/83	27137	67405Y	7/83
		9/12/83	27138	67441Y	7/83
		9/12/83	27136	67443Y	7/83
		9/12/83	27132	67458Y	7/83
		9/12/83	27135	67459Y	7/83
		9/12/83	27134	67468Y	7/83
		9/12/83	27133	67585Y	3/83
				95181R*	
				8111X*	
	801307-02	8/11/83	27101	11011Z	7/83
	801307-04	5/25/83	26940	11012Z	3/83
		5/25/83	27065	66632Y	3/83
		8/11/83	27100	66647Y	7/83
		8/11/83	27099	66654Y	7/83
		5/25/83	27063	66666Y	7/83
		5/25/83	27064	66672Y	7/83
		9/7/83	27131	66687Y	8/83
		9/7/83	27066	66690Y	6/83
				83723X*	
				83729X*	
				83756X*	
				83868X*	
				83870X*	
				83891X*	

\* Repairs

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
BOEING	801307-06			10656Y*	
				10661Y*	
				10670Y*	
				10695Y*	
				10697Y*	
				10737Y*	
		7/13/83	27061	10914Y	2/83
				10946Y*	
				10952Y*	
				12433X*	
				12566X*	
				12602X*	
				12796X*	
				12912X*	
				38742T*	
				46095V*	
	801307-08			10739Y*	
	801307-09	8/30/83	27123	67404Y	7/83
		8/30/83	27121	67409Y	7/83
		8/30/83	27120	67419Y	7/83
		8/30/83	27119	67420Y	7/83
		8/30/83	27126	67439Y	7/83
		8/30/83	27127	67451Y	7/83
		8/30/83	27107	67463Y	7/83
		8/30/83	27122	67464Y	7/83
		8/30/83	27125	67466Y	7/83
		8/30/83	27117	67469Y	7/83
		8/30/83	27124	67470Y	7/83
		8/30/83	27110	67487Y	3/83
		8/30/83	27116	67519Y	3/83
		8/30/83	27118	67564Y	3/83
		8/30/83	27111	67572Y	3/83
		8/30/83	27115	67594Y	3/83
		8/30/83	27114	67596Y	3/83
		8/30/83	27108	67600Y	3/83
		8/30/83	27112	67601Y	3/83
		8/30/83	27113	67603Y	3/83
		8/30/83	27109	67610Y	3/83
		8/30/83	27106	67611Y	3/83
	801307-10			11024Y*	
				12700X*	
				12707X*	
				12713X*	
				12957X*	

\* Repairs

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CESSNA	895020-77	6/6/83	127	195	5/83
			129	217	
			130	077	
			131	049	
			132	045	
	801365-11	6/16/83	2288	12460Y	4/83
	895020-22	8/15/83	142	108	8/83
	895020-15	8/16/83	128	230	11/82
	895020-77	9/13/83	136	231	9/83
			138	189	
139			222		
145			249		
COMMANDER	801293-00	8/1/83	4718	12559Y	2/83
	801293-00	8/1/83	4719	12679Y	2/83
	801293-00	8/1/83	4721	12682Y	2/83
	801293-00	8/1/83	4722	12579Y	2/83
	801293-00	8/1/83	4724	12560Y	2/83
	801293-00	8/1/83	4727	12565Y	2/83
	801293-00	8/1/83	4729	12746Y	2/83
	801293-00	8/1/83	4734	12594Y	2/83
	801293-00	8/1/83	4735	12728Y	2/83
	801293-00	8/1/83	4736	12580Y	2/83
COOPER AVIATION	801307-00	6/14/83	26960	67178Y	5/83
	801307-00	6/14/83	26961	67295Y	5/83
	801307-00	6/14/83	26962	67243Y	5/83
	801307-00	6/14/83	26963	67213Y	5/83
	801307-00	6/14/83	26964	67309Y	5/83

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DOUGLAS	801307-23	5/17/83	26937 26938 26939	67256Y 67150Y 67258Y	5/83
DOUGLAS	801307-20	6/6/83	26949 26950 26951 26952	66977Y 66921Y 66997Y 66961Y	4/83
DOUGLAS	801307-20	6/24/83	26977 26978 26979 26980	67080Y 67067Y 66862Y 66902Y	2/83 5/83
DOUGLAS	801307-23	7/7/83	27040 27041 27042 27043	010768 010763 43156X 010743	6/83 6/83
DOLGLAS	801307-23	8/25/83	27104 27105	67541Y 67588Y	3/83
DOLGLAS	801307-06	9/8/83	27169 27170	65416Y 65429Y	5/83
DOUGLAS	801307-23	9/16/83	27174	010769	9/83
DOUGLAS	801307-23			81898* 7504V* 9061X* 9088Y*	

\* Repairs

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MOONEY	895080-77	8/5/83	111 112 113 114 115 116 117	199 155 183 107 208 200 190	10/82
MOONEY	895080-77	8/22/83	118 119 120 121 122 123	198 157 216 243 211 207	10/82
MOONEY	895080-77	9/20/83	124 125 126 127 128 129	233 141 152 224 251 213	10/82



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PIPER	800112-23	5/19/83	9129	66994Y	4/83
			9130	66960Y 3/83	
			9131	66948Y 4/83	
			9132	66998Y	
			9133	66975Y	
			9134	49038X	
			9135	49064X	
PIPER	800112-20	5/20/83	9136	12534Y	2/83
			9137	12526Y	
			9138	12656Y	
			9140	12540Y	
			9141	12542Y	
			9142	12536Y	
			9143	12512Y	
PIPER	800112-01	5/20/83	9144	11106Y	5/83
			9145	11225Y	
PIPER	800112-23	5/27/83	9125	66932Y	4/83
			9126	66983Y	
			9128	66970Y	
PIPER	6350A2000B	6/2/83	Thermo	19289W 63070Y 2635X	4/83
PIPER	895040-22	6/9/83	111	138	9/82
			112	080	
			113	071	
			114	219	
			115	062	
PIPER	895100-50	6/9/83	101	144	3/83
			102	028	
			103	124	8/82
			104	129	
			105	030	
PIPER	800112-20	6/16/83	9139	12079Y	4/83
PIPER	895040-50	6/28/83	116	153	8/82
			117	152	
			119	217	
			125	219	
PIPER	895100-50	7/6/83	106	267	9/82
			107	033	8/82
			108	135	
			109	166	
			110	040	
PIPER	895040-50	7/6/83	118	211	8/82

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
PIPER	6350A2000B	7/15/83	Thermo	62541Y 64013Y 64025Y	5/83
PIPER	800112-01	9/14/83	9163	068697	7/83
PIPER	800112-00 800112-20 800112-21			47894W* 46186X* 83942X*	

\* Repairs

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VAN DUSEN	801307-20	6/6/83	26953 26954	67004Y 66920Y	4/83
VAN DUSEN	801307-00	6/14/83	26955 26956 26957 26958 26959	67218Y 43145X 43141X 67114Y 43091X	5/83
VAN DUSEN	801307-04	6/17/83	26975	66708Y	6/83
VAN DUSEN	801307-20	7/6/83	26981 26982	66972Y 66883Y	5/83
VAN DUSEN	801307-06	7/13/83	27062	65354Y	5/83
VAN DUSEN	801307-04	8/11/83	27080	66662Y	7/83
	801307-04	8/11/83	27081	66678Y	7/83
	801307-04	8/11/83	27082	66645Y	7/83
	801307-04	8/11/83	27083	66670Y	7/83
	801307-04	8/11/83	27084	66677Y	7/83
	801307-04	8/11/83	27085	11021Z	7/83
	801307-04	8/11/83	27086	11013Z	7/83
	801307-04	8/11/83	27087	11018Z	7/83
	801307-04	8/11/83	27088	11015Z	7/83
	801307-04	8/11/83	27089	11002Z	7/83
	801307-04	8/11/83	27090	11020Z	7/83
	801307-04	8/11/83	27091	66642Y	7/83
	801307-04	8/11/83	27092	66650Y	7/83
	801307-04	8/11/83	27093	66628Y	7/83
	801307-04	8/11/83	27094	11016Z	7/83
	801307-04	8/11/83	27095	11007Z	7/83
	801307-04	8/11/83	27096	66664Y	7/83
	801307-04	8/11/83	27097	66676Y	7/83
	801307-04	8/11/83	27098	66629Y	7/83
VAN DUSEN	801307-00	9/12/83	27139	67518Y	3/83
	801307-00	9/12/83	27140	67465Y	7/83
	801307-00	9/12/83	27141	67425Y	7/83
	801307-00	9/12/83	27142	67615Y	3/83
	801307-00	9/12/82	27143	67515Y	3/83
	801307-00	9/12/82	27144	67501Y	3/83
	801307-00	9/12/82	27145	67499Y	3/83
	801307-00	9/12/82	27146	67475Y	3/83
	801307-00	9/12/82	27147	67489Y	3/83
	801307-00	9/12/82	27148	67488Y	3/83
	801307-00	9/12/82	27149	67474Y	3/83
	801307-00	9/12/82	27150	67506Y	3/83
	801307-00	9/12/82	27151	67513Y	3/83
	801307-00	9/12/82	27152	67516Y	3/83
	801307-00	9/12/82	27153	67586Y	3/83
	801307-00	9/12/82	27154	67481Y	3/83
	801307-00	9/12/82	27155	67476Y	3/83
	801307-00	9/12/82	27156	67480Y	3/83

<u>CUSTOMER</u>	<u>PART NUMBER</u>	<u>DATE CHARGED</u>	<u>VALVE or S/N</u>	<u>CYLINDER SERIAL NO.</u>	<u>CYLINDER DATE</u>
VAN DUSEN	801307-00	9/12/82	27157	67589Y	3/83
	801307-00	9/12/82	27158	67608Y	3/83
	801307-00	9/12/82	27159	67498Y	3/83
	801307-00	9/12/83	27160	67447Y	7/83
	801307-00	9/12/83	27161	67587Y	3/83
	801307-00	9/12/83	27162	67537Y	
	801307-00	9/12/83	27163	67561Y	
	801307-00	9/12/83	27164	67449Y	7/83
	801307-00	9/12/83	27165	67553Y	3/83
VAN DUSEN	801307-00	9/13/83	27166	43092X	9/83
	801307-00	9/13/83	27167	43006X	9/83
	801307-00	9/13/83	27168	010756	9/83
VAN DUSEN	895090-15	9/13/83	144	087	11/82
VAN DUSEN	801307-20	9/16/83	27173	67061Y	8/83

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ANGLO AMERICAN	891411-14	7/12/83	27044	65340Y	5/83
	891411-14	7/12/83	27045	65358Y	5/83
	891411-14	7/12/83	27046	65360Y	5/83
	891411-14	7/12/83	27047	65336Y	5/83
BARFIELD	801307-21	6/24	26976	65088Y	6/83
CAMPBELL CORPAC	800112-13			74276DD*	
CANADAIR	802895-01	6/16/83	755 756 764	67040Y 67057Y 67049Y	2/83
CANADAIR	802895-01			13399X* 15855U* 48887Y* 48879X*	
EL AL ISRAEL	801307-00			95332R* 78670G*	
FALCON JET	GST 2151			58833R* 60050X* 79313S* 60004X* 58897R*	
GULFSTREAM	801293-00			46459X*	
INDIANAPOLIS AVIATION	801365-10			15876W*	
LAFAYETT AIRCRAFT	801365-10			52641*	
LOCKHEED	800378-00	6/9/83	14426 14799	65322Y 65304Y	5/83
OLYMPIC	891411-14			45876V*	

\* Repairs

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PAGE AVJET	895010-50			124*	
PACIFIC PRECISION	895010-15	7/14/83	136 137 138 139	064 255 107 227	11/82
PACIFIC PRECISION	895010-50	8/8/83 9/13/83	132 150	031 132	8/83 9/83
PIEDMONT	6350A34-CC-C	9/19/83	14862	010762	9/83
SAIR AVI.	800112-07			14930Y8	
STANDARD AERO INTERNATIONAL	801307-00	8/10/83	27079	67605Y	8/83
TRANSAERO	6350A7-0-B	5/27/83	Thermo	84053X 84055X 84188X 84305X	3/83
WESTERN AERO	801307-21	8/19/83	27102 27103	65096Y 65104Y	5/83
WESTERN AERO	801307-21	9/16/83	27175 27176	65138Y 65151Y	4/83
Unknown	6350A34-CC-C	6/24/83	14819	67268Y	5/83
Unknown	6350A5-CC-B	9/19/83	14839	068732	7/83

\* Repairs