

CHAPTER

91

CHARTS



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**CHAPTER 91 - CHARTS
LIST OF EFFECTIVE PAGES**

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EFFECTIVITY:

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LIST OF CONSUMABLE MATERIALS

1. General

NOTE: THE MILITARY SPECIFICATIONS ARE LISTED WITH THE BASIC NUMBER ONLY. THE ACTUAL UPDATED REVISION SUFFIX MUST BE CONSIDERED FOR THE REQUIRED INFORMATION.

- A. This page block gives details of all the consumable materials that are required during maintenance of the airplane.
- B. This Chapter is divided into two sections:
 - (1) An index (Chart 201) which lists the consumable materials in alphanumeric order (Number), with reference to the following groups (ATA-100 Code Chapters).

Chart 201 - Consumable Materials

Numbers	Groups
01	Adhesives
02	Cleaners
03	Greases & Lubricants
04	Miscellaneous
05	Paints & Primers
06	Sealants

- (2) An index (Chart 202) which lists the Permaswage fittings, used to perform the maintenance operations, with reference to the following groups (ATA-100 Code Chapters).

Chart 202 - Consumable Materials

Numbers	Groups
07	Permaswage Fittings

Chart 201 - Consumable Materials - Group 01

Ref. Item	Description	Vendor	Type	P/N	Specification
01-001	Adhesive Hysol			EA934NA	
01-002	Adhesive			EA956	MIL-R-46082
01-003	Loctite (Nutlock)	Loctite		241	ASTMD5363
01-004	Loctite (Screwlock)	Loctite		222	ASTMD5363
01-005	Loctite	Loctite		270	ASTMD5363
01-006	Loctite	Loctite		242	ASTMD5363
01-007	Conductive Adhesive			SK 4008	
01-008	Filler	AWLGRIP			Awlquik Epoxy Primer Surfacer D8003/D9001

Chart 201 - Consumable Materials - Group 02

Ref. Item	Description	Vendor	Type	P/N	Specification
02-001	Aliphatic Naphta		Type II		TT-N-95
02-002	Cleaner (Alkaline)				MIL-C-87936
02-003	Cleaner, Yosemite	Yosemite Chemical Co.		Y999	
02-004	Cleaner, Glisten	Chemsearch			
02-005	Cleaner, Text	Arexons			
02-006	Dry Cleaning Compound, Stoddard	Stoddard			P-D-680
02-007	Dry Cleaning Compound, Host	Host of California			
02-008	Isopropyl Alcohol (CH ₃) ₂ CHOH				
02-009	Methyl-Ethyl-Ketone				ASTM D740 (ex TT-M-261)
02-010	Mild Soap				
02-011	Perchloro-Ethylene				
02-012	Petroleum Solvent				AMS 3160
02-013	Toluene				TT-T-548
02-014	Trichloroethane				O-T-634
02-015	Trichlorofluoroethane				MIL-C-81302
02-016	Sodium Hydroxide				

Chart 201 - Consumable Materials - Group 03

Ref. Item	Description	Vendor	Type	P/N	Specification
03-001	Antiseize Compound (Petrolated Graphite)				MIL-T-5544 or equivalent to SAE-AMS-2518
03-002	Antiseize Compound (Petrolated Molybdenum Disulphide)				MIL-T-83483
03-003	ECU Lubricating Oil	Exxon		2380	MIL-L-23699, NATO O-156 for warm climate
		Esso	Turbo Oil	2389	MIL-L-7808 NATO O-148 for cool climate
03-004	Grease	Shell		Aeroshell 5	MIL-G-3545
03-005	Grease	Shell		Aeroshell 6	
03-006	Grease				MIL-G-23827 NATO G-354
03-007	Not Used				
03-008	Grease (Inboard Flap Screwjack)	Kluber Isoflex		TOPAS NB 5051	
03-009	Grease (Wheel Bearings)		SHC 100	Product Code: 530063	MIL-G-81322 (NATO G-395)
03-010	Hydraulic Fluid				DEF STAN 91-48 MIL-H-5606
03-011	Grease	Shell		Aeroshell 22	MIL-G-81322D
03-012	Engine Oil (*)	Mobil			MOBIL JET OIL II
03-013	Engine Oil (*)	Shell		Aeroshell 500	TURBINE OIL 500
03-014	Engine Oil (*)	Castrol			CASTROL 5000
03-015	Engine Oil (*)	Exxon			TURBO OIL 2380

(*) NOTE: Only MOBIL JET OIL II, AEROSHELL TURBINE OIL 500, CASTROL 5000 and EXXON TURBO OIL 2380 engine oils have been tested and are approved for use on the P.180 airplane within the recommendations of the latest revision of P&WC Engine service Bulletin No. 14001. The other oils listed in the above P&WC Engine Service Bulletin are not approved for use on the P.180 airplane.

Chart 201 - Consumable Materials - Group 04

Ref. Item	Description	Vendor	Type	P/N	Specification
04-001	Acetone				O-A-51
04-002	Breathing Oxygen				
04-003	Disinfectant	Lysol			
04-004	Ethyl Acetate				TT-E-751
04-005	Germicidal Deodorant	Monogram		DG-19	
04-006	Inhibitor, Icing, Fuel System				Ref. to P&WC S.B. 14004 (Latest Revision)
04-007	Leak Detector Fluid, Oxygen System				MIL-L-25567
04-008	Lockwire (C32)				MS20995
04-008A	Lockwire (C20)				MS20995
04-008B	Lockwire (C41)				MS20995
04-008C	Lockwire (C47)				MS20995
04-008D	Lockwire (NC32)				MS20995
04-008E	Lockwire (CY15)				MS20995
04-009	Nitrogen				
04-010	Rain Repellant				SAE-AS-6882
04-011	Release Agent	Ciba	(Windshield)	QV10	
04-012	Release Agent	Ciba	(Windows)	QZ11	
04-013	Lint Free Cloth				
04-014	Polishing Wax - Hard				
04-015	Abrasive Paper	Polysand	1500		
04-016	Abrasive Paper	Polysand	1800		
04-017	Abrasive Paper	Polysand	2400		
04-018	Abrasive Paper	Polysand	3200		
04-019	Abrasive Paper	Polysand	3600		
04-020	Abrasive Paper	Polysand	4000		
04-021	Abrasive Paper	Polysand	6000		
04-022	Abrasive Paper	Polysand	8000		
04-023	Abrasive Pad	3M	Scotchbrite		
04-024	Deicing, Anti-icing fluids	Union Carbide or Dow Chemical U.S.A.	UCAR 146AR		MIL-A-8243 MIL-A-8243
04-025	Kerosene				ASTM D1655
04-026	Anti-Icing Fluids	Killfrost	ABC - 3		AMS 1428
	Anti-Icing Fluids	Killfrost			

Chart 201 - Consumable Materials - Group 05

Ref. Item	Description	Vendor	Type	P/N	Specification
05-001	Primer	Dow Corning		1200	
05-002	Primer	PRC		PR1560MC	MIL-C-27725 Type II Class B
05-003	Primer	PRC		PR1560MK	MIL-C-27725 Type II Class B
05-004P	Primer	Alumigrip	30-Y-94	S9001	MIL-P-23377
05-004C	Converter	Alumigrip		S3001	
05-004R	Reducer	Alumigrip		T0006	
05-005P	Primer (Polyurethanic)	Alumigrip		G8005	
05-005C	Converter	Alumigrip		G3001	
05-005R	Reducer	Alumigrip		T0003	
05-006	Topcoat of Various Colors for Composite Painting:	Alumigrip			
	- Ethereal blue			G8036	BMS 1072 or DPM 6596
	- Beyond Blue			H5002	BMS 1072 or DPM 6596
	- Ice Blue			H5004	BMS 1072 or DPM 6596
	- Snow White			G8044	BMS 1072 or DPM 6596
	- Vestal White			G8004	BMS 1072 or DPM 6596
	- Off White			G8010	BMS 1072 or DPM 6596
	- Off White Revised			G8009	BMS 1072 or DPM 6596
	- Oyster White			H8010	BMS 1072 or DPM 6596
	- Egg Shell White			H8015	BMS 1072 or DPM 6596
	- Matterhorn White			G8003	BMS 1072 or DPM 6596
	- Blue Tone White			G8029	BMS 1072 or DPM 6596
	- Cream			H8002	BMS 1072 or DPM 6596
	- Moon Dust			G6004	BMS 1072 or DPM 6596
	- Tender Yellow			G9059	BMS 1072 or DPM 6596
	- San Mateo Wheat			G9001	BMS 1072 or DPM 6596
05-007C	Converter	Alumigrip		G3010	Airless Spray
05-007R1	Reducer	Alumigrip		T0001	10 to 24 C and 29 to 40 C Airless Spray
05-007R2	Reducer	Alumigrip		T0002	29 to 40 C Airless Spray
05-007R3	Reducer	Alumigrip		T0003	10 to 24 C Airless Spray
05-007R4	Converter	Alumigrip		H3002	Brush/Roll Application
05-007R5	Reducer	Alumigrip		T0031	10 to 40 C Brush/Roll Application
05-008	Topcoat of Various Colors for Metal Surfaces Painting:	Alumigrip			BMS 1072 or DPM 6596

Chart 201 - Consumable Materials - Group 06

Ref. Item	Description	Vendor	Type	P/N	Specification
06-001	Jointing Compound		JC5A		
06-002	Seal Tape				S-362
06-003	Sealant, Faying Surface	PRC		PS 892 C	DAN 1184-00/01/02/05/06
06-004	Sealant, Faying or Oversealing	PRC		PR1422A-2	MIL-S-8802 Type I Class A-2
06-005	Sealant - Fillet	PRC		PR1422B2	Will be replaced with PR 1440B2
06-006	Silicone Rubber (High Temp)	PRC		PR1910	BMS 5-33 Type B
06-007	Silicone Rubber	Dow Corning or General Electric	Silastic	7 32RTV GE RTV106	MIL-A-46106 Type I MIL-A-46106 Type I
06-008	Sealant - Fillet	PRC		PR1425B-2	MIL-S-8802 Type I Class B-2
06-009	Sealant	Le Joint Francais		PR 1829 B	MIL-P25690

Chart 202 - Consumable Materials - Group 07

Ref. Item	Vendor	Type	P/N	Diameter	Quantity	Installation	Notes
07-001	Deutsch	Cross Fitting	D9854-04	1/4"	2	29-00-00	Steel
07-002	Deutsch	"T" Fitting	D9855-04	1/4"	8	29-00-00	Steel
07-003	Deutsch	"T" Fitting	D9855D04	1/4"	5	29-00-00	Aluminum Alloy
07-004	Deutsch	"T" Fitting	D9855D06	3/8"	3	29-00-00	Aluminum Alloy
07-005	Deutsch	Adapter, 90	D9856-04	1/4"	2	29-00-00	Steel
07-006	Deutsch	Adapter, 90	D9856D04	1/4"	12	29-00-00	Aluminum Alloy
07-008	Deutsch	Adapter, 90	D9856D06	3/8"	3	29-00-00	Aluminum Alloy
07-009	Deutsch	Nut Coupling	D10006D04	1/4"	43	29-00-00	Aluminum Alloy
07-010	Deutsch	Nut Coupling	D10006D06	3/8"	3	29-00-00	Aluminum Alloy
07-011	Deutsch	Flareless Sleeve	D10007-04	1/4"	15	29-00-00	Steel
07-012	Deutsch	Flareless Sleeve	D10007D04	1/4"	28	29-00-00	Aluminum Alloy
07-013	Deutsch	Flareless Sleeve	D10007D06	3/8"	3	29-00-00	Aluminum Alloy
07-014	Deutsch	Threaded Union	D10008D04	1/4"	5	29-00-00	Aluminum Alloy
07-015	Deutsch	Threaded Union	D10008D06	3/8"	1	29-00-00	Aluminum Alloy
07-016	Deutsch	Union, Bulkhead	D10019-04	1/4"	12	29-00-00	Steel
07-017	Deutsch	Union, Bulkhead	D10019D06	3/8"	4	29-00-00	Aluminum Alloy
07-018	Deutsch	Adapter, 90	D10021A-04	1/4"	17	29-00-00	Steel
07-019	Deutsch	Adapter, 90	D10021AD04	1/4"	14	29-00-00	Aluminum Alloy
07-020	Deutsch	Adapter, 90	D10021AD06	3/8"	3	29-00-00	Aluminum Alloy
07-021	Deutsch	"T" Reducer	D10023D060604	1/4"	1	29-00-00	Aluminum Alloy
07-022	Deutsch	Threaded "T" Fitting	D10026D06	3/8"	1	29-00-00	Aluminum Alloy
07-023	Deutsch	Sleeve	D10036-04	1/4"	17	29-00-00	Steel
07-024	Deutsch	Sleeve	D10036D04	1/4"	16	29-00-00	Aluminum Alloy
07-025	Deutsch	Sleeve	D10036D06	3/8"	8	29-00-00	Aluminum Alloy
07-026	Deutsch	Union, Reducer	D10045D06064	1/4"	1	29-00-00	Aluminum Alloy
07-027	Deutsch	Threaded "T" Reducer	D10055D060604	1/4"	1	29-00-00	Aluminum Alloy
07-028	Deutsch	Elbow, 45, Reducer	D10070-04	1/4"	1	29-00-00	Steel
07-029	Deutsch	Adapter, 45	D10137D04	1/4"	2	29-00-00	Aluminum Alloy

(Cont'd)

Chart 202 - Consumable Materials - Group 07 (Cont'd)

Ref. Item	Vendor	Type	P/N	Diameter	Quantity	Installation	Notes
07-030	Deutsch	"T" Fitting	D9855D04	1/4"	2	34-10-00	Aluminum Alloy
07-031	Deutsch	Sleeve	D10036D04	1/4"	9	34-10-00	Aluminum Alloy
07-032	Deutsch	Adapter	PE20304DD0604	3/8"-> 1/4"	2	34-10-00	Aluminum Alloy
07-033	Deutsch	Adapter	PE20304DD0504	5/16"->1/4"	2	34-10-00	Aluminum Alloy
07-034	Deutsch	Sleeve	D10010D04	1/4"	21	34-10-00	Aluminum Alloy
07-035	Deutsch	Nut Coupling	D10006D04	1/4"	21	34-10-00	Aluminum Alloy
07-036	Deutsch	"T" Fitting	D10073D04	1/4"	4	34-10-00	Aluminum Alloy
07-037	Deutsch	Adapter, 90	D10027AD04	1/4"	2	34-10-00	Aluminum Alloy
07-038	Deutsch	"T" Fitting	D9855D05	5/16"	2	35-00-00	Aluminum Alloy
07-039	Deutsch	Sleeve	D10036D05	5/16"	5	35-00-00	Aluminum Alloy
07-040	Deutsch	Sleeve	D10010D05	5/16"	13	35-00-00	Aluminum Alloy
07-041	Deutsch	Nut Coupling	D10006D05	5/16"	13	35-00-00	Aluminum Alloy
07-042	Deutsch	"T" Fitting	D10073D05	5/16"	3	35-00-00	Aluminum Alloy
07-043	Deutsch	Threaded Union	D10011D05	5/16"	1	35-00-00	Aluminum Alloy