TECHNICAL DATA OF PIAGGIO P.180 AVANTI

Description

First Owner Since New.

Aircraft used in EMS operations, equiped with medical cabin Life Port 6" & 2" PLUS.

Specifications

O • • • • • •

As of Date: 21-MAR-2024

Manufacturer	Model	Serial Number	Reg #	Total Time FH	Total Landings LDG	Year	Condition
PIAGGIO	P-180 AVANTI	1079	SP-MXH	6340	9722	2004	Used

Engines: P&WC PT6A-66				
SN	Time FH	Cycles CY	Overhaul	Remain.
PCE-RK0104	6077	8253	1134	FH
PCE-RK0103	6248	8359	1058	FH

Propellers: HARTZELL					
Model	Sorial Number	Number of	Total FH	Overhaul	Overhaul
Model	Senai Number	Blades		Remaining	Due Date
HC-E5N-3A	KU85E	5	6848	2416	09-MAY-2025
HC-E5N-3AL	HF217E	5	6801	2416	16-MAY-2025

Safran Landing Gear Overhaul				
	Cycles Remaining Due Date			
Main Landing Gear	2169	LDG	19-FEB-2025	
Nose Landing Gear	3664	LDG	05-FEB-2029	

Avionics	
Avionics Packaging	Universal Avionics Collins
ADS-B Equipped	NO
RVSM	Capable

Additional	Equipment

ADAS+ System deactivated by SB 80-1079-0001	
Increased Gross Weight (12,100 lbs, MTOW)	

Exterior	
Year Painted	2004
Refresh / partial painting	2022

Interior	

Number of Passengers:	
- on seats	5
- on stretcher	1
Configuration (see AFM attach.)	20 - Air Ambulance Life Port 6" & 2" PLUS

Inspection Status				
	Interval	Remainiı	ng Time	Due Date
D Inspection	3600 FH	286	FH	
5Y Inspection	5 Years	74	Days	03-JUN-2024



PILOT'S OPERATING HANDBOOK AND ENAC APPROVED AIRPLANE FLIGHT MANUAL

SUPPLEMENT NO. 33 FOR THE AIR AMBULANCE CONFIGURATION (OPTIONS #20 AND #21)



SECTION 1 – GENERAL

This supplement must be attached to the Pilot's Operating Handbook and Approved Airplane Flight Manual when the Air Ambulance Kit 80KI00020 (Option #20 cabin configuration) or 80KI00021 (Option #21 cabin configuration) is installed.

The information contained herein supplements or supersedes the basic Pilot's Operating Handbook and Approved Airplane Flight Manual only in those areas listed herein. For limitations, procedures and performance information not contained in this supplement consult the basic Pilot's Operating Handbook and Approved Airplane Flight Manual.

ABBREVIATIONS

BLS	Basic Life Support
PLUS	Patient Loading and Utility System



SECTION 2 – LIMITATIONS

CAUTION

Use of any equipment connected to the BLS must be approved by the National Aviation Autority. Compliance with FAA AC 135-15 is considered acceptable.

WEIGHT LIMITS

- 1. The following weight limitations apply to the Opt. #20 and #21 Cabinets and Cabin Baggage Compartment:
 - a. Maximum weight in Cabin Baggage Compartment 110 lbs (49,8 kg)
 - b. Maximum weight in Right Side Rear Cabinet 22 lbs (10,0 kg)
 - c. Maximum weight in Left Side Rear Cabinet
- 2. Electromedical equipment can be installed on each TS Side Arch (P/N 100-4279-CF2-002) and TS Arch (P/N 100-4123-02-CF2-002) with the following weight limitations:
 - a. Maximum load on TS Side Arch 25 lbs (11,3 kg)
 - b. Maximum load on TS Side Arch (Taxi, Takeoff and Landing) 15 lbs (6,8 kg)
 - c. Maximum load on TS Arch 50 lbs (22,7 kg)
- 3. A maximum of two 10 lt. oxygen bottles can be installed inside each 6' PLUS and one on the oxygen vessel rack near the LH rear cabinet with the following weight limitation:
 - a. Oxygen bottle (completely filled) maximum weight

44 lbs (20 kg)

61,6 lbs (28,0 kg)

SEATING/LITTER LIMITS

CAUTION

Patients and stretchers shall be installed so that the patient's head is in forward position. The stretcher backrest must be in the fully lowered position during taxi, take-off and landing.

CREW LIMITS

In addition to the normal flight crew limits, a minimum of one attendant for each stretcher occupant who is incapable of independently exiting the airplane.

NOTE

The attendant/medical personnel should be familiarized with the use of the medical equipment installed.



PLACARDS

1. On the Cabin Baggage Compartment:

<u>In the upper bay:</u>

	13.6 kg	
WEIGHT CAPACITY		MAX
	30 Lbs	
11 1		

In the middle bay:

In the lower bay:

2. On the Left Side Rear Cabinet:

Above the drawers:

ALL DRAWERS MUST BE CLOSED WHEN NOT IN USE

On the first upper drawer:

On the second drawer:

On each of the two lower drawers:

In the lower bay:

Inside each bay of the lateral compartment:

<u>Above the Oxygen vessel rack:</u>

OXYGEN VESSEL MUST BE SECURED

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On the Oxygen vessel rack:

3. On the Right Side Rear Cabinet:

On the upper drawer:

6 kg WEIGHT CAPACITY —— MAX 13.2 Lbs

On the lower drawer:

4. On top of the small foldable table (when closed):

PUSH TO OPEN

5. On the 2' PLUS Unit:

40 LBS (18 KG) MAX DOOR MUST BE LATCHED DURING TAXI, TAKEOFF AND LANDING DO NOT USE AS A SEAT DURING TAXI, TAKE-OFF OR LANDING

6. Near the 2' PLUS Unit:

THIS SEAT MUST NOT BE OCCUPIED DURING TAKE OFF AND LANDING

7. On each 6' PLUS Unit:

On the upper area:

EMERGENCY SLED RELEASE PUSH IN, TILT SLED OUT PUSH

On the system control panel:

AIR SUCTION PNL LTS 230 VAC CONV 12 VDC OXYGEN AIR SUCTION 230 VAC 1,4 AMPS TOTAL



On both lateral sides:

REMOVE HANDLES BEFORE FLIGHT

On the load bay door panels:

OXYGEN SHUTOFF INBOARD & OUTBOARD CLOCK-WISE OFF HIGH PRESSURE OXYGEN FILL 200 BAR MAX CAUTION USE NO OIL NO SMOKING

BACKREST IN LOWEST POSITION FOR TAXI, TAKE-OFF AND LANDING ENSURE LIFELOCKS ARE FULLY ENGAGED BEFORE FLIGHT NO STORAGE ALLOWED WITH OXYGEN BOTTLE INSTALLED

Inside the load bay on the oxygen shutoff panel:

INBOARD OFF OUTBOARD OXYGEN

On the rear side:

OXYGEN

AIR

SUCTION LOW PSI OXYGEN CLOSE VALVE BEFORE DISCONNECTING HIGH PSI OXYGEN CLOSE VALVE BEFORE DISCONNECTING INV REMOTE LIGHTS 28 VDC

8. On each Side Arch:

On the leg:

TOTAL LOAD OF 25 LBS MAXIMUM INSTALLED ON THE ARCH HEAD EXTRUSION. 15 LBS FOR TAXI, TAKEOFF AND LANDING. THE CENTER OF GRAVITY MUST NOT BE MORE THAN 4" INBOARD AND ABOVE THE UPPER SURFACE.

On the box:

12 VDC				
230 VAC				
AIR				
OXYGEN				

9. On the TS arch:

50 LBS MAXIMUM.

THE CENTER OF GRAVITY MUST NOT BE MORE THAN 2" ABOVE THE UPPER SURFACE. CAUTION: IT IS THE RESPONSIBILITY OF THE OPERATOR TO ENSURE THE AIRWORTHINESS OF ANY LOAD OR EQUIPMENT MOUNTED ON THIS ARCH INCLUDING EMI, RMI, FLAMMABILITY EMERGENCY EGRESS, STRUCTURAL INTEGRITY OR ANY OTHER POTENTIAL HAZARD.

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Date: May 4, 2004



SECTION 3 – EMERGENCY PROCEDURES

EVACUATION OF NON-AMBULATORY PATIENTS

In the event of an emergency evacuation, the attendant/medical personnel required at Section 2 "Limitations" of this Supplement is responsible for evacuating the non-ambulatory stretcher occupants.

EVACUATION VIA CABIN DOOR

- 1. Open cabin door.
- 2. Prepare each patient for evacuation.
- 3. Remove each patient from the stretcher.
- 4. Drag each patient by lifting under both arms and backing through the door.

EVACUATION VIA EMERGENCY EXIT DOOR

- 1. Open emergency exit door.
- 2. Prepare each patient for evacuation.
- 3. Allow pilot exit first.
- 4. Remove each patient from the stretcher.
- 5. Drag each patient by lifting under both arms and backing towards the emergency exit.
- 6. Put the patient leg through the emergency exit.
- 7. Lift the patient and allow sliding through the emergency exit.
- 8. The pilot lowers the patient to the ground.

IN THE EVENT OF EXCESSIVE ELECTRICAL LOAD

- 1. Pilot informs attendant/medical personnel and request for a BLS electrical load reduction.
- 2. Reduce electrical load.
- 3. Monitor electrical load.

If excessive electrical load continues:

4. Pilot informs attendant/medical personnel and request to switch off all electrical loads.

IN THE EVENT OF DUAL GENERATOR FAILURE

1. Pilot informs attendant/medical personnel of a zero electrical power situation and request to switch off all electrical loads.

IN THE EVENT OF LITTER BREAKER TRIPPED

- 1. Push to reset the circuit breaker.
- 2. If the circuit breaker trips again do not reset until the cause of the circuit malfunction is determined and corrected.



SECTION 4 – NORMAL PROCEDURES

PREFLIGHT CHECK

Referring to the Air Ambulance interior configuration approved by the National Aviation Authority, the operator must verify the correct location of the interior components.

Slide Aerosled on the BLS base until fastening pins engage the latches. Check the correct engagement of all the four pins: trying to rock the stretcher from each end is an acceptable checking method. Stretchers occupants must be head forward oriented in the airplane.

Each stretcher occupant shall be secured by means of the restraint harness during taxi, takeoff and landing operations.

Each restraint harness is installed as required to fit each individual occupant. The shoulder straps are passed over the occupant shoulders and fastened through the buckle of the torso belt. The thigh belt is secured over the lover limbs of the occupant.

Check the electromedical equipment are positively secured and related supporting frame properly fastened. Check the electrical cables for correct connection to the BLS power sockets and to the electromedical equipment rack sockets.

CAUTION

The installed medical equipment, as approved by the National Aviation Authority, should be checked operative as per the proper applicable operator's manuals.

NOTE

Primary airplane electrical loads shall take precedence on medical system loads when an electrical load shedding is required.

SECTION 5 – PERFORMANCE

No changes to the basic performances provided by Section 5 of the Pilot's Operating Handbook and Approved Airplane Flight Manual are necessary for this supplement.



SECTION 6 - WEIGHT AND BALANCE

Weight and balance data included in the Section 6 of the basic Pilot's Operating Handbook and Approved Airplane Flight Manual must be completed with the following data when the airplane is arranged in the Air Ambulance Configuration.

The operator must ensure the airplane is loaded within the Weight, Moment and Center of Gravity limits envelope at Section 6 of the basic Manual.

OCCUPANTS

WEIGHT LBS	CREW SEATS ARM 49.20 IN	SEAT 1 ARM 96.25 IN	LITTER 2 ARM 133.44 IN	SEAT 3 ARM 129.36 IN	SEAT 4 ARM 187.95 IN	SEAT 5 ARM 165.36 IN	SEAT 6 ARM 218.18 IN		
	MOMENT (LBS * IN/100)								
100	49.20	96.25	133.44	129.36	187.95	165.36	218.18		
110	54.12	105.88	146.78	142.30	206.75	181.90	240.00		
120	59.04	115.50	160.13	155.23	225.54	198.43	261.82		
130	63.96	125.13	173.47	168.17	244.34	214.97	283.63		
140	68.88	134.75	186.82	181.10	263.13	231.50	305.45		
150	73.80	144.38	200.16	194.04	281.93	248.04	327.27		
160	78.72	154.00	213.50	206.98	300.72	264.58	349.09		
170	83.64	163.63	226.85	219.91	319.52	281.11	370.91		
180	88.56	173.25	240.19	232.85	338.31	297.65	392.72		
190	93.48	182.88	253.54	245.78	357.11	314.18	414.54		
200	98.40	192.50	266.88	258.72	375.90	330.72	436.36		
210	103.32	202.13	280.22	271.66	394.70	347.26	458.18		
220	108.24	211.75	293.57	284.59	413.49	363.79	480.00		

OPTION # 20 CABIN CONFIGURATION

NOTE

Seat 6 can be occupied during takeoff or landing only if the optional belted lavatory seat is installed.



Figure 9-55. LOADING CHART - OCCUPANTS - OPT. #20

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BAGGAGE (OPTION # 20 CABIN CONFIGURATION)

	REAR BAGGAGE COMPT.		
WEIGHT	FS 275 TO 320		
LBS	ARM 298 IN.		
	MOMENT (LBS*IN/100)		
10	29.80		
20	59.60		
30	89.40		
40	119.20		
50	149.00		
60	178.80		
70	208.60		
80	238.40		
90	268.20		
100	298.00		
110	327.80		
120	357.60		
130	387.40		
140	417.20		
150	447.00		
160	476.80		
170	506.60		
180	536.40		
190	566.20		
200	596.00		
210	625.80		
220	655.60		
230	685.40		
240	715.20	[
250	745.00		
260	774.80		
270	804.60		
280	834.40		
290	864.20		
300	894.00		
310	923.80		
320	903.60		
330	983.40		
340	1013.20	Г	
350	1043.00		
970	1072.80		
ə /U 200	1102.60		
200	1102.40		
400	1102.20		
001	1102.00	1	
	CABIN BAGGAGE COMPT.		
WEIGHT	FS 208 TO 232		
LBS	AKM 220 IN.		
	MOMENT (LBS*IN/100)		
10	22.00		
20	44.00		
30	66.00		
40	88.00		
50	110.00		
60	132.00		
70			
70	154.00		
70 80	$\begin{array}{c} 154.00\\ 176.00\end{array}$		
70 80 90	154.00 176.00 198.00		
70 80 90 100	154.00 176.00 198.00 220.00		

WEIGHT LBS	FORWARD CABINET FS 55 TO 70 ARM 62.5 IN.				
	MOMENT (LBS*IN/100)				
$5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 34$	$\begin{array}{c} 3.13 \\ 6.25 \\ 9.38 \\ 12.50 \\ 15.63 \\ 18.75 \\ 21.25 \end{array}$				
WEIGHT LBS	2' PLUS CABINET FS 71 TO 95 ARM 83.2 IN. MOMENT (LBS*IN/100)				
$5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ 40$	$\begin{array}{c} 4.16\\ 8.32\\ 12.48\\ 16.64\\ 20.80\\ 24.96\\ 29.12\\ 33.28\end{array}$				
WEIGHT (*) LBS	6' PLUS STOWAGE COMPT. ARM 131.2 IN. MOMENT (LBS*IN/100)				
5 10 15 20	$6.56 \\ 13.12 \\ 19.68 \\ 26.24$				
WEIGHT LBS	LEFT SIDE REAR CABINET FS 192 TO 206 ARM 197 IN.				
	MOMENT (LBS*IN/100)				
5 10 15 20 25 30 35 40 45 50 55 60	$\begin{array}{c} 9.85\\ 19.70\\ 29.55\\ 39.40\\ 49.25\\ 59.10\\ 68.95\\ 78.80\\ 88.65\\ 98.50\\ 108.35\\ 118.20\\ \end{array}$				
WEIGHT LBS	RIGHT SIDE REAR CABINET FS 198 TO 206 ARM 200 IN. MOMENT (LBS*IN/100)				
5 10 15 20 22	$ \begin{array}{c} 10.00\\ 20.00\\ 30.00\\ 40.00\\ 44.00\\ \end{array} $				

(*) Payload when no oxygen bottle is installed inside the stowage compartment.

Figure 9-56. LOADING CHART - BAGGAGE - OPT. # 20

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OCCUPANTS

WEIGHT LBS	CREW SEATS ARM 49.20 IN	SEAT 1 ARM 96.25 IN	LITTER 2 ARM 133.44 IN	LITTER 3 ARM 150.00 IN	SEAT 4 ARM 187.95 IN	SEAT 5 ARM 218.18 IN			
MOMENT (LBS * IN/100)									
100	49.20	96.25	133.44	150.00	187.95	218.18			
110	54.12	105.88	146.78	165.00	206.75	240.00			
120	59.04	115.50	160.13	180.00	225.54	261.82			
130	63.96	125.13	173.47	195.00	244.34	283.63			
140	68.88	134.75	186.82	210.00	263.13	305.45			
150	73.80	144.38	200.16	225.00	281.93	327.27			
160	78.72	154.00	213.50	240.00	300.72	349.09			
170	83.64	163.63	226.85	255.00	319.52	370.91			
180	88.56	173.25	240.19	270.00	338.31	392.72			
190	93.48	182.88	253.54	285.00	357.11	414.54			
200	98.40	192.50	266.88	300.00	375.90	436.36			
210	103.32	202.13	280.22	315.00	394.70	458.18			
220	108.24	211.75	293.57	330.00	413.49	480.00			

OPTION # 21 CABIN CONFIGURATION

NOTE

Seat 5 can be occupied during takeoff or landing only if the optional belted lavatory seat is installed.



Figure 9-57. LOADING CHART - OCCUPANTS - OPT. #21

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BAGGAGE (OPTION # 21 CABIN CONFIGURATION)

	REAR BAGGAGE COMPT.				
WEIGHT	FS 275 TO 320 ARM 298 IN.				
LBS	MOMENT (LBS*IN/100)				
10	29.80				
20	59.60				
30	89.40				
40	119.20				
50 60	149.00				
70	208.60				
80	238.40				
90	268.20				
100	298.00				
110	327.80				
120	357.60				
130	387.40				
150	447.00				
160	476.80				
170	506.60				
180	536.40				
190	566.20				
200	596.00				
210	625.80				
230	685.40				
240	715.20				
250	745.00				
260	774.80				
270	804.60				
280	834.40				
290	864.20				
310	094.00 923.80				
320	953.60				
330	983.40				
340	1013.20				
350	1043.00				
360	1072.80				
380	1102.80				
390	1162.20				
400	1192.00				
	CABIN BAGGAGE COMPT.				
WEIGHT	FS 208 TO 232				
LBS	ARM 220 IN.				
	MOMENT (LBS*IN/100)				
10	22.00				
20	44.00				
30	66.00				
40	88.00				
00 60	110.00				
70	154.00				
80	176.00				
90	198.00				
100	220.00				
110	242.00				
	RIGHT SIDE REAR CABINET				
WEIGHT	FS 198 TO 206				
LBS	ARM 200 IN.				
	MOMENT (LBS*IN/100)				
5					
	10.00				
10	10.00 20.00				
10 15	10.00 20.00 30.00				
$ \begin{array}{c} 10 \\ 15 \\ 20 \\ 22 \end{array} $	$ \begin{array}{r} 10.00 \\ 20.00 \\ 30.00 \\ 40.00 \\ 44.00 \\ \end{array} $				

WEIGHT LBS	FORWARD CABINET FS 55 TO 70 ARM 62.5 IN.				
	MOMENT (LBS*IN/100)				
5 10 15 20 25 30 34	$\begin{array}{c} 3.13 \\ 6.25 \\ 9.38 \\ 12.50 \\ 15.63 \\ 18.75 \\ 21.25 \end{array}$				
	2' PLUS CABINET				
WEIGHT LBS	FS 71 TO 95 ARM 83.2 IN.				
	MOMENT (LBS*IN/100)				
$5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ 40$	$\begin{array}{c} 4.16\\ 8.32\\ 12.48\\ 16.64\\ 20.80\\ 24.96\\ 29.12\\ 33.28\end{array}$				
	6' PLUS				
WEIGHT (*) LBS	STOWAGE COMPT. (RH) ARM 131.2 IN.				
	MOMENT (LBS*IN/100)				
5 10 15 20	$6.56 \\ 13.12 \\ 19.68 \\ 26.24$				
WEIGHT (*) LBS	6' PLUS STOWAGE COMPT. (LH) ARM 144.8 IN.				
	MOMENT (LBS*IN/100)				
5 10 15 20	$7.24 \\ 14.48 \\ 21.72 \\ 28.96$				
	LEFT SIDE REAR CABINET				
WEIGHT	FS 192 TO 206 ARM 197 IN.				
LDO	MOMENT (LBS*IN/100)				
5 10 15 20 25 30 35 40 45 50 55	$\begin{array}{c} 9.85\\ 19.70\\ 29.55\\ 39.40\\ 49.25\\ 59.10\\ 68.95\\ 78.80\\ 88.65\\ 98.50\\ 108.25\end{array}$				
60	118.20				

(*) Payload when no oxygen bottle is installed inside the stowage compartment.

Figure 9-58. LOADING CHART - BAGGAGE - OPT.# 21



EQUIPMENT LIST

The following items, not included in the weight and balance information presented in Section 6 of the basic Pilot's Operating Handbook, must be considered integral part of the Equipment List when the airplane is arranged in the AIR AMBULANCE Configuration (Options # 20 or # 21).

ATA No.	ITEM DESCRIPTION AND PART NUMBER	WEIGHT LBS	ARM IN	MOMENT LBS • IN/100	Q.TY	MARK IF INSTL.
25	EQUIPMENT/FURNISHINGS					
25-20	PASSENGER COMPARTMENT					
	<i>OPTION # 20 CABIN CONFIGURATION</i>					
	- 2' PLUS Unit LifePort Inc. 100-4568-CF2-002	28.52	83.20	23.73	1	Х
	- Side facing seat GEVEN AV11-3521-00	28.70	96.25	27.62	1	Х
	- 6' PLUS Unit LifePort Inc. 366-4300-CF2-002	125.30	129.20	161.89	1	Х
	- Aerosled TS Side Arch LifePort Inc. 100-4279-CF2-002	25.00	151.00	37.75	1	
	- Aerosled TS Stretcher LifePort Inc. 100-4065-CF2-002 with	36.60	133.44	48.84	1	
	- Aerosled TS Arch LifePort Inc. 100-4049-CF2-002	4.85	139.00	6.74	1	
	or - Aerosled TD Strecher LifePort Inc. 100-4123-02-CF2-002	35.00	133.44	46.70	1	
	- FWD Facing Seat (LH) ERDA 303453-4	47.80	129.36	61.83	1	Х
	- FWD Facing Seat (LH) ERDA 303453-4	47.80	165.36	79.04	1	Х
	- FWD Facing Seat (RH) GEVEN AV03-2113-02	30.10	187.95	56.57	1	Х
	- Rear Cabinet, LH side Piaggio 80-909820-803	41.88	197.00	82.50	1	
	- Cabin Baggage Compartment (3) Piaggio 80-909942-801	50.70	220.00	111.54	1	
	(1) Mounting plates weight included.					
	(2) Includes Rear Cabinet assy P/N 80-909818-80 and Rear Cabinet support assy P/N 80-909940 801.	3 3-				
	(3) Includes Cabinet assy P/N 80-909943-801.					



At page 9-368 and 9-369 update the Option #20 and #21 configurations equipment list as below (updated text in bold characters):

ATA No.	ITEM DESCRIPTION AND PART NUMBER	WEIGHT LBS	ARM IN	MOMENT LBS • IN/100	Q.TY	MARK IF
25	EQUIPMENT/FURNISHINGS					
25-20	PASSENGER COMPARTMENT					
	<i>OPTION # 20 CABIN CONFIGURATION</i>					
	- 2' PLUS Unit (1) LifePort Inc. 100-4568-CF2-002	28.52	83.20	23.73	1	Х
	- Side facing seat GEVEN AV11-3521-00	28.70	96.25	27.62	1	Х
	- 6' PLUS Unit (1) LifePort Inc. 366-4300-CF2-002 or Piaggio 80-929041-801	125.30	129.20	161.89	1	Х
	- Aerosled TS Side Arch LifePort Inc. 100-4279-CF2-002	25.00	151.00	37.75	1	
	- Aerosled TS Stretcher LifePort Inc. 100-4065-CF2-002	36.60	133.44	48.84	1	Х
	- Aerosled TS Arch LifePort Inc. 100-4049-CF2-002	4.85	139.00	6.74	1	
	or - Aerosled TD Strecher LifePort Inc. 100-4123-02-CF2-002	35.00	133.44	46.70	1	
	- FWD Facing Seat (LH) ERDA 303453-4	47.80	129.36	61.83	1	Х
	- FWD Facing Seat (LH) ERDA 303453-4	47.80	165.36	79.04	1	Х
	- FWD Facing Seat (RH) GEVEN AV03-2113-02	30.10	187.95	56.57	1	Х
	- Rear Cabinet, LH side (2) Piaggio 80-909820-803	41.88	197.00	82.50	1	
	- Cabin Baggage Compartment (3) Piaggio 80-909942-801	50.70	220.00	111.54	1	
	(1) Mounting plates weight included.					
	(2) Includes Rear Cabinet assy P/N 80-909818-80 and Rear Cabinet support assy P/N 80-909946 801.	3				
	(3) Includes Cabinet assy P/N 80-909943-801.					

Temp. Change 20: May 26, 2011



ATA No.	ITEM DESCRIPTION AND PART NUMBER		WEIGHT LBS	ARM IN	MOMENT LBS • IN/100	Q.TY	MARK IF INSTL.
25-20	PASSENGER COMPARTMENT						
	OPTION # 20 CABIN CONFIGURATION (cont.)						
	- Rear Cabinet, RH side LifePort Inc. 180-2360-CF2-02		20.80	200.00	41.60	1	
	- Oxygen Vessel Rack Piaggio 80-909947-801		5.40	187.47	10.12	1	
	- Loading Ramp LifePort Inc. 100-4472		33.00	298.00	98.34	1	
	<i>OPTION # 21 CABIN CONFIGURATION</i>						
	- 2' PLUS Unit LifePort Inc. 100-4568-CF2-002	(1)	28.52	83.20	23.73	1	
	- Side facing seat GEVEN AV11-3521-00		28.70	96.25	27.62	1	
	- 6' PLUS Unit (RH) LifePort Inc. 366-4300-CF2-002 or Piaggio 80-929041-801	(1)	125.30	129.20	161.89	1	
	- Aerosled TS Side Arch (RH) LifePort Inc. 100-4279-CF2-002		25.00	151.00	37.75	1	
	- Aerosled TS Stretcher (RH) LifePort Inc. 100-4065-CF2-002		36.60	133.44	48.84	1	
	- Aerosled TS Arch LifePort Inc. 100-4049-CF2-002		4.85	139.00	6.74	1	
	- Aerosled TD Strecher (RH) LifePort Inc. 100-4123-02-CF2-002		35.00	133.44	46.70	1	
	- 6' PLUS Unit (LH) LifePort Inc. 366-4300-CF2-002 or Piaggio 80-929041-801	(1)	125.30	152.76	191.41	1	
	- Aerosled TS Stretcher (LH) LifePort Inc. 100-4065-CF2-002 with		36.60	150.00	54.90	1	
	or - Aerosled TD Strecher (LH) LifePort Inc. 100-4123-02-CF2-002		35.00	150.00	52.50	1	
	(1) Mounting plates weight included.						



ATA No.	ITEM DESCRIPTION AND PART NUMBER		WEIGHT LBS	ARM IN	MOMENT LBS • IN/100	Q.TY	MARK IF INSTL.
25-20	PASSENGER COMPARTMENT						
	OPTION # 20 CABIN CONFIGURATION (cont.)						
	- Rear Cabinet, RH side LifePort Inc. 180-2360-CF2-02		20.80	200.00	41.60	1	
	- Oxygen Vessel Rack Piaggio 80-909947-801		5.40	187.47	10.12	1	
	- Loading Ramp LifePort Inc. 100-4472		33.00	298.00	98.34	1	
	<i>OPTION # 21 CABIN CONFIGURATION</i>						
	- 2' PLUS Unit LifePort Inc. 100-4568-CF2-002	(1)	28.52	83.20	23.73	1	
	- Side facing seat GEVEN AV11-3521-00		28.70	96.25	27.62	1	
	- 6' PLUS Unit (RH) LifePort Inc. 366-4300-CF2-002	(1)	125.30	129.20	161.89	1	
	- Aerosled TS Side Arch (RH) LifePort Inc. 100-4279-CF2-002		25.00	151.00	37.75	1	
	- Aerosled TS Stretcher (RH) LifePort Inc. 100-4065-CF2-002 with		36.60	133.44	48.84	1	
	- Aerosled TS Arch LifePort Inc. 100-4049-CF2-002		4.85	139.00	6.74	1	
	or - Aerosled TD Strecher (RH) LifePort Inc. 100-4123-02-CF2-002		35.00	133.44	46.70	1	
	- 6' PLUS Unit (LH) LifePort Inc. 366-4300-CF2-002	(1)	125.30	152.76	191.41	1	
	- Aerosled TS Stretcher (LH) LifePort Inc. 100-4065-CF2-002 with		36.60	150.00	54.90	1	
	or - Aerosled TD Strecher (LH) LifePort Inc. 100-4123-02-CF2-002		35.00	150.00	52.50	1	
	(1) Mounting plates weight included.						



ATA No.	ITEM DESCRIPTION AND PART NUMBER		WEIGHT LBS	ARM IN	MOMENT LBS • IN/100	Q.TY	MARK IF INSTL.
25-20	PASSENGER COMPARTMENT						
	<i>OPTION # 21 CABIN CONFIGURATION (cont.)</i>						
	- FWD Facing Seat GEVEN AV03-2113-02		30.10	187.95	56.57	1	
	- Rear Cabinet, LH side Piaggio 80-909820-803	(2)	41.88	197.00	82.50	1	
	- Cabin Baggage Compartment Piaggio 80-909942-801	(3)	50.70	220.00	111.54	1	
	- Rear Cabinet, RH side LifePort Inc. 180-2360-CF2-02		20.80	200.00	41.60	1	
	- Oxygen Vessel Rack Piaggio 80-909947-801		5.40	187.47	10.12	1	
	- Loading Ramp LifePort Inc. 100-4472		33.00	298.00	98.34	1	
	(2) Includes Rear Cabinet assy P/N 80-90981 and Rear Cabinet support assy P/N 80-90 801.	8-803 9946-					
	(3) Includes Cabinet assy P/N 80-909943-801.						



SECTION 7 – DESCRIPTION AND OPERATION

A flush-mounted socket on each side of the cabin floor provides electrical power supply to each litter assembly. Suitable access panels are provided for the floor sockets protection when the litter assemblies are not installed.

Two 50-ampere circuit breakers are installed in the main junction box for protection of the feeding lines to the litter assemblies: one on the left generator bus for the left litter assembly and the other one on the right generator bus for right litter assembly.

For pilot's control of electrical power delivery to each litter assembly during all flight operations, two remotely controlled circuit breakers are installed in the main junction box with the respective control circuit breakers located on the copilot circuit breaker panel, placarded respectively AUX1 for the left and AUX2 for the right litter assembly (see Fig. 9-59).

WARNING

Each time a litter assembly is to be either connected to or disconnected from the airplane electrical power supply, be sure the battery is OFF before the litter electrical plug is engaged in/disengaged from the airplane power connector.

The Air Ambulance configuration, option # 20, consists of one BLS system, one patient load ramp, one side-facing seat, three forward-facing seat, one forward cabinet, two rearward cabinets and an oxygen vessel rack. Individual lifejacket stowage compartments are provided.

In the Air Ambulance configuration, option # 21, the two forward-facing seats on the left side of the cabin (ref. to option # 20 cabin configuration) are substituted by a second BLS system.

Each BLS system, fastened to the cabin seat tracks by means of suitable mounting plates, comprises:

1. one 6 feet Patient Loading Utility System (PLUS), consisting of a base that houses connections to medical equipment, storage compartments and provisions for sliding, supporting and securing the patient and for the installation of two 10 lt. oxygen bottles;



Figure 9-59. RIGHT CIRCUIT BREAKER PANEL - AUX 1 & AUX 2 CIRCUIT BREAKERS LOCATION



2. one AeroSled TS stretcher that latches to the top of the PLUS and provides patient restraint and support and allows the installation of an AeroSled TS Arch that includes mounting provision for medical apparatus, or, alternately,

one AeroSled TD stretcher that provides hard points on its top deck for the restraint of cargo and medical equipment.

One AeroSled TS Side Arch, which provides connection to medical equipment, can also be installed and directly fastened to the cabin seat tracks.

A 2 feet PLUS cabinet is installed just in front of the cabin door and it is provided with a medical equipment storage compartment and with a seat cushion and a backrest for the accomodation of one attendant/medical passenger during flight.

The load ramp can be attached to suitable connections provided on the 2' PLUS cabinet making easier patient loading/unloading and, when not in use, can be folded and stowed in the baggage compartment.

The two rear cabinets are located close to the aft cabin wall, the higer one on the left and the lower one on the right side. Both cabinets are provided with drawers for medical equipment storage.

Each 6 feet PLUS unit includes:

- 1. the provision for the installation of an optional oxygen system (this system includes two customer supplied oxygen bottles with 200 BAR (2900 PSI) maximum pressure, high pressure regulator, distribution manifold, fill port and outlets) a pressure gauge, a pressure regulator for a pressure delivery of approximately 60 psi and an outlet port;
- 2. a vacuum pump with outlet port;
- 3. a compressed air system with a pump, a pressure regulator for a pressure delivery of 60 psi (outlet pressure can be adjusted by the operator through a control knob on the pressure regulator), a 26 cu.in. accumulator, an air/water separator, a 5 micron filter and an outlet port;
- 4. a 28VDC-230VAC/50 Hz, 330 VA inverter with two delivery connectors;
- 5. a 28VDC/12VDC 210 Watt converter with four delivery connectors;
- 6. a control panel lighting system;
- 7. control switches and circuit breakers for each electrical system.

The outlet ports for oxygen, vacuum and compressed air have different size fittings in order to avoid possible incorrect connections.

WARNING

Positively NO SMOKING while oxygen is in use by anyone in the airplane. Oil, grease or other lubricants in contact with high pressure oxygen can create an extreme fire hazard. Any such contact must be avoided.

WARNING

When a defibrillator is installed, only the self-adhesive type electrodes are allowed for use on board of the airplane. The use of any standard handle type electrodes must be absolutely avoided when on board of the airplane.

SECTION 8 – AIRPLANE HANDLING, SERVICE AND MAINTENANCE

No changes to the basic Handling, Service and Maintenance information provided by the Section 8 of the Pilot's Operating Handbook are necessary for this Supplement.