

	N°	Code Date
ISS.	3	7-76
AMDT.	1 ✓	12-93

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## APPENDIX

### WEIGHT AND BALANCE

### PART 2

This appendix, issued to supplement the information given in the Flight Manual, may be modified by specific amendments independent of those issued against the basic Flight Manual.

#### IMPORTANT NOTE

This document supports the helicopters delivered by both AEROSPATIALE and EUROCOPTER FRANCE.  
Revisions to this manual are made by EUROCOPTER FRANCE using the same procedures as AEROSPATIALE.



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**APPENDIX WB 2**



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FORMS

The forms contain aircraft empty weight and balance data and provide the means for following the development of the figures obtained on successive weighings or embodiment of modifications.

There are three kinds of forms :

- Form B, comprising :

- A weighing sheet which gives the gross weight
- A weight analysis sheet which indicates the net weight and c.g location values found on weighing.

- Form C :

This form constitutes a record of changes in weight and balance :

- determined at each weighing
- calculated, between weighings, from equipment list data.

- Form A :

This form is the list of the main removable equipment items which are not necessary for certain missions and have a considerable effect on weight and c.g location.

Some small components may be grouped on a same line. The easily removable equipment items are identified separately.

This list may be altered on the customer's initiative and is given in Appendix WB2.

Only longitudinal moments are considered.



## WEIGHING SHEET

Jacking method

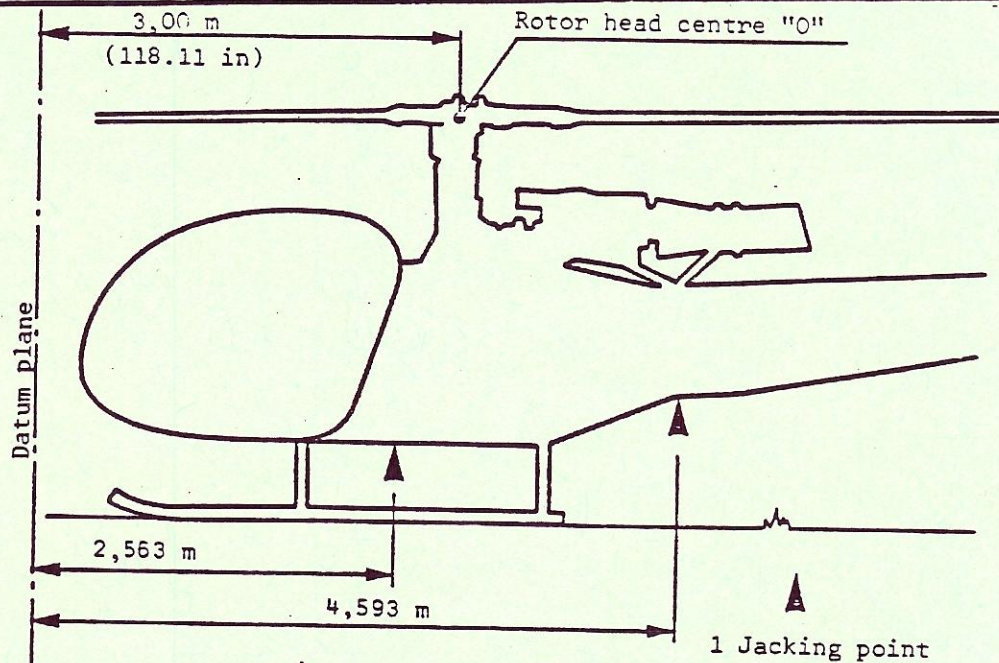
FORM B

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Aircraft Type : Serial number : \_\_\_\_\_

Scales (type manufacturer): \_\_\_\_\_

WEIGHING POINTS	WEIGHT INDICATED	TARE	NETT WEIGHT	ARM A or B	MOMENT m.kg
L.H. forward point...					
R.H. forward point....					
Total of forward point					
Aft point .....					
TOTAL .....					



APPENDIX WB2



## WEIGHING ANALYSIS SHEET

FORM B

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DESCRIPTION	NETT WEIGHT	ARM	MOMENT	C.G. location
Total A/C weighed at :      date : _____ )				
Oil .....				
Fuel .....				
Equipment weighed, not included in the empty weight equipped (column 1).				
Equipment not weighed, included in the empty weight equipped (column 2).				
Aircraft empty weight      - Carry over to equipped                      - Form C				

C.G LOCATION:

1 - (REMOVE -)				2 (ADD +)			
Equipment weighed, not included in the inventory at the date of weighing.	WEIGHT	ARM	MOMENT	Equipment not weighed included in the inventory at the date of weighing.	WEIGHT	ARM	MOMENT
TOTAL .....				TOTAL .....			

Remarks:

Completed by :  
Date :

315 B

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315 B



LIST OF EQUIPMENT										FORM A						
										DATES						
										DELIVERY						
A/C DRAWING FILE NUMBER		Aircraft. Type : 315B (BASIC)		Serial number						SCHEDULED ON DELIVERY	IN AIRCRAFT	FORM C	1	2	3	4
ASSEMBLY N°	ISSUE	ITEM NUMBER	DESCRIPTION	WEIGHT		ARM		MOMENT								
				(Kg)	(lb)	(m)	(in.)	(m.Kg)	(lb.in)							
			FUSELAGE :													
			Cabin door, port	7.69	19.95	1.58	62.2	12.150	1054.3							
			Cabin door, starboard	7.67	16.91	1.58	62.2	12.118	1051.8							
			FURNISHINGS													
			Copilot's seat assembly (removable harness)	6.47	14.26	1.55	61.0	10.028	870.3							
			Copilot's seat assembly (+ fixed harness)	5.84	12.87	1.55	61.0	9.052	785.7							
			Rear seat, double (unfolded) + 2 belts	4.09	9.02	2.20	86.6	8.998	781.1							
			Rear seat, single (unfolded) + 1 belt	2.54	5.60	2.20	86.6	5.588	485.0							
			UNDERCARRIAGE													
			Ground handling wheel and axle, port	5.07	11.18	3.25	128.0	16.477	1431.0							
			Ground handling wheel and axle, stb.	5.07	11.18	3.25	128.0	16.477	1431.0							
			Ski installation, Swiss type	20.96	46.21	2.79	109.8	58.478	5073.8							
										Page 1/7						



LIST OF EQUIPMENT								FORM A				
								DATES				
Aircraft Type : 315B (BASIC)				Serial number				DELIVERY				
ITEM NUMBER	DESCRIPTION	WEIGHT		ARM		MOMENT		SCHEDULED ON DELIVERY	1	2	3	4
		(Kg)	(lb)	(m)	(in.)	(m.Kg)	(lb.in)					
	FLYING CONTROLS :											
	COPILOTS FLYING CONTROLS	5.00	11.02	0.92	36.4	4.619	401.2					
	including :											
	- Pedal unit	2.43	5.36	0.67	26.4	1.628	141.5					
	- Collective pitch control lever	1.10	2.43	1.53	60.2	1.683	146.3					
	- Cyclic pitch control stick	1.47	3.24	0.89	35.0	1.308	113.4					
	FLYING CONTROL BLANKS	0.82	1.81	0.95	37.3	0.778	67.6					
	including											
	- Pedal unit blanking plate	0.47	1.04	0.67	26.4	0.315	27.5					
	- Collective pitch control lever blanking plate	0.25	0.55	1.50	59.1	0.375	32.5					
	- Cyclic pitch control stick blanking plate	0.10	0.22	0.88	34.6	0.088	7.6					
	ENGINE											
	Engine air intake grids, small	1.89	4.17	4.17	164.2	7.881	684.0					
	Bracket, Fire ext. mounting	0.60	1.32	2.56	100.79	1.536	133.0					
				2.56	100.79							
								Page 2/7				



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LIST OF EQUIPMENT									FORM A							
									DATES							
									DELIVERY							
A/C DRAWING FILE NUMBER	Aircraft Type : 315B (BASIC)		Serial number						SCHEDULED ON DELIVERY							
ASSEMBLY N°	ISSUE	ITEM NUMBER	DESCRIPTION	WEIGHT		ARM		MOMENT		IN AIRCRAFT	FORM C	1	2	3	4	
				(Kg)	(lb)	(m)	(in.)	(m.Kg)	(lb.in)							
			I.F.R. installation, including :	2.05	4.52	0.84	33.1	1.713	148.7							
			Artificial horizon, BADIN type													
			851	1.17	2.58	0.83	32.7	0.971	84.3							
			Directional Gyro, BADIN type 830.1	0.83	1.83	0.84	33.1	0.697	60.5							
			Bank indicator, VINOT type 100	0.05	0.11	0.90	35.4	0.045	3.9							
			Breguet, type 11, clock	0.19	0.42	0.92	36.2	0.175	15.2							
			Clock, DODANE (on upper pedestal panel)	0.19	0.42	0.89	35.0	0.169	14.7							
			VARIOUS INSTALLATIONS													
			Rescue hoist assembly (hoisting)	31.24	68.87	2.19	86.2	68.433	5939.6							
			- Hoist arm, compatible with floatation gear inst.	13.54	29.85	2.65	104.3	35.881	3114.3							
			- Hoist, AE, with XM 12 line + attachments	13.48	29.72	1.41	55.5	19.007	1649.7							
			- Line, Espa, + clamps + hardware	2.09	4.61	2.84	111.8	5.936	515.2							
			- Filter + valve + support + attachments	1.23	2.71	4.27	168.1	5.252	455.8							
			- Line, Espa	0.39	0.86	4.54	178.7	1.771	153.7							
			- Winchman's handle assembly (stowed)	0.51	1.12	1.15	45.3	0.586	50.9							
			Winchman's belt	0.73	1.61											
										Page 1/7						



LIST OF EQUIPMENT										FORM A				
										DATES				
A/C DRAWING FILE NUMBER		Aircraft Type : 315B (BASIC)		Serial number						DELIVERY				
ASSEMBLY N°	ISSUE	ITEM NUMBER	DESCRIPTION	WEIGHT		ARM		MOMENT						
				(Kg)	(lb)	(m)	(in.)	(m.Kg)	(lb.in)	SCHEDULED ON DELIVERY	1	2	3	4
			Sling (cargo swing) - 1000 kg											
			load	12.80	28.22	3.00	118.1	38.400	3332.9					
			Ambulance duty installation :											
			cabin :											
			- Special stretcher assembly,											
			SIREN	22.35	49.27	1.52	59.8	33.972	2948.6					
			Seat attachment fittings instal-											
			led athwartships	0.96	2.12	1.99	78.3	1.910	165.8					
			Displacement of medical atten-											
			dant's seat					+ 2.920	+ 253.4					
			Rear seat (one + two place seat)											
			in folded position					+ 1.061	+ 92.1					
			Oxygen installation	11.08	24.43	1.14	44.9	12.576	1091.6					
			- 2 forward cylinders (full wt.)	5.54	12.21	0.55	21.6	3.047	264.5					
			- 2 rear cylinders (full wt.)	5.54	12.21	1.72	67.7	9.529	827.1					
			1 Oxygen mask assembly with lin	0.35	0.77									
										Page	5/7			



## FORM A

## DATES

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LIST OF EQUIPMENT								FORM A								
								DATES				DELIVERY				
Aircraft Type : 315B (BASIC)		Serial number						SCHEDULED ON DELIVERY	1	2	3	4				
ITEM NUMBER	DESCRIPTION	WEIGHT		ARM		MOMENT							IN AIRCRAFT	FORM C		
		(Kg)	(lb)	(m)	(in.)	(m.Kg)	(lb.in)									
	Air intake installation with barrier type sand filters	32.06	70.68	4.28	168.6	137.327	11919.3									
	- 2 intake assemblies with ram pressure hoods, filter mounts and filters	29.10	64.15	4.26	167.7	123.966	10759.6									
	- 2 rear "A" frame assemblies with mounts	2.26	4.98	4.71	185.4	10.647	924.1									
	- 2 fwd. "A" frame assemblies with mounts	0.70	1.54	3.88	152.8	2.716	235.7									
	Fuel Jettison system	6.50	13.33	3.49	137.4	22.685	1968.9									
	Fuel tank, rounded, normal	25.33	55.84	3.05	120.1	77.257	6707.5									
	Fuel tank, rounded, self-sealing	31.70	69.89	3.05	120.1	96.685	8391.8									
	Anti-coll. light, (remov. part)	1.48	3.26			3.900	338.2									
	Fwd light, SGE 32.76.2	0.74	1.63	1.40	55.1	1.040	89.8									
	Aft light, SGE 32.76.2	0.74	1.63	3.87	152.4	2.860	248.4									
	Landing light	2.59	5.70	1.31	51.6	3.390	293.9									
								Page	7/7							



