

Attachment 4
Weight and Balance
Summary

CARD DATE: 02/17/04

US Airways A319/A320
ISSUED: 07/15/04

CARD NO: JA08-10-1

FAXED
7-16-04

**AIRCRAFT PRE-WEIGHING CHECKLIST
A319 AND A320**

PAGE 1
PCI P800

STA: CLT

DATE: 7-16-04

ACFT NO: 106

M/HR STD: MECH _____ INSP _____ UTILITY _____ NON/ROUTINE _____

TIME |----|----|----|----|----|----|----|----|----|----|----|----|

AIRCRAFT WEIGH CHECK (Ref: MPP 321-10)

NOTE: Use required job cards for type of weigh scales to be used.

CELL SCALES: JA08-10-1, JA08-10-5 and JA08-10-6

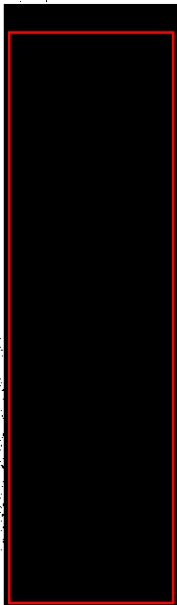
PLATFORM SCALES: JA08-10-1, JA08-10-3 and JA08-10-4

JET WEIGH SERIES: JA08-10-1 and JA08-10-7

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
01	GENERAL	XXXXXXXX	XXXXXXXX
	A. Before weighing, the aircraft must be placed in operating condition with all equipment, units and systems complete and properly installed. All doors, windows, and hatches must be closed; inspection hole covers in place; wing flaps retracted and flight controls in neutral position. The aircraft must be clean and dry inside and out. Aircraft must be leveled laterally and longitudinally (Ref MM Chap 8).	[REDACTED]	XXXXXXXX
	B. Drain and sump fuel tanks in accordance with MM procedures.	[REDACTED]	XXXXXXXX
	NOTE: Fuel in engine supply lines and basic engine to be considered full.	[REDACTED]	
	C. Engine oil quantity No.1, No.2, APU, IDG - Full	[REDACTED]	XXXXXXXX
	D. Engine fire extinguisher system fully charged	[REDACTED]	XXXXXXXX
	E. APU fire extinguisher system fully charged	[REDACTED]	XXXXXXXX
	F. Hydraulic fluid - Full	[REDACTED]	XXXXXXXX
	G. Check nose and main landing gear struts for correct air pressure and doors are closed.	[REDACTED]	XXXXXXXX
	H. Check nose and main tires for correct air pressure.	[REDACTED]	XXXXXXXX

CONT'D

AIRCRAFT PRE-WEIGHING CHECKLIST
A319 AND A320

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	I. Potable water (Check one): EMPTY <input type="checkbox"/> FULL <input checked="" type="checkbox"/>		XXXXXXXXXX
	J. Lavatory Chemical (Check one): EMPTY <input checked="" type="checkbox"/> FULL <input type="checkbox"/>		XXXXXXXXXX
02	CARGO/E & E COMPARTMENTS		XXXXXXXXXX
	A. Cargo compartments empty and webbing in place		XXXXXXXXXX
	B. Crew oxygen bottle installed		XXXXXXXXXX
	C. Aircraft battery installed		XXXXXXXXXX
03	CHECK COCKPIT EQUIPMENT IS INSTALLED		XXXXXXXXXX
	A. Captain's Station		
	(1) Oxygen Mask w/Smoke Goggles		
	(2) Microphone Assembly		
	(3) Headset Assembly		
	(4) Seat Belt Assembly		
	(5) Escape Rope		
	(6) Life Vest - Orange Color		
	(7) MEL Book		
	B. F/O Station		
	(1) Oxygen Mask w/Smoke Goggles		
	(2) Microphone Assembly		
	(3) Headset Assembly		
	(4) Seat Belt Assembly		
	(5) Escape Rope		
	(6) Life Vest - Orange Color		
	C. First Observer's Station		
	(1) Oxygen Mask w/Smoke Goggles		
	(2) Microphone Assembly		
	(3) Seat Belt Assembly		
	(4) Headset Assembly		



AIRCRAFT PRE-WEIGHING CHECKLIST
A319 AND A320

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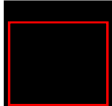
POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	(5) Life Vest - Orange Color		
	D. Second Observer's Station		
	(1) Oxygen Mask w/Smoke Goggles		
	(2) Seat Belt Assembly		
	(3) Life Vest - Orange Color		
	E. Emergency Equipment		
	(1) Fire Extinguisher - Halon		
	(2) Crash Axe		
	(3) Emergency Medical Kit - Sealed		
	(4) Gear Pins		
	(5) Protective Breathing Equipment (PBE)		
	F. Miscellaneous Cockpit Equipment		
	(1) Spare Bulb Kit (Replenished)		
	(2) Log Book		
	(3) Spare Log Book		
	(4) Normal Checklist		
	G. Certificates		
	(1) Airworthiness - above fwd entry doors		
	(2) Registration - on right wall in cockpit		
	(3) Radio License - on right wall in cockpit		
	(4) Liquor Tax Stamp - on right wall in cockpit		
	(5) Sanitation - above RH fwd service door		
04	GALLEY AND FORWARD PASSENGER ENTRANCE AREA.	US G5293	XXXXXXXX
	A. Doors L1 and R1		
	(1) Escape Slide/Rafts secured.		
	B. FWD Closet Left Side C-1		
	(1) Seat Belt Extensions (4)		
	(2) Demo Pouch		
	(3) First Aid Kit - Sealed		
	(4) Protective Breathing Equipment (PBE)		
	(5) Supplemental Equipment Pouch		
	(6) Megaphone		
	(7) Fire Extinguisher - Halon		
	(8) Portable O2 Bottles w/Masks (2) at proper pressure		
	(9) Tuff Suffs (2)		

CONT'D

AIRCRAFT PRE-WEIGHING CHECKLIST
A319 AND A320

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
R	(10) Survival Kit (2) (A/C 700-723, 101-124)		
	C. FWD F/A Station		
	(1) FA Handset (2) Emergency Flashlight (3) Double Seat w/Seat and Shoulder Belts (4) Crew Life Vests - Orange Color (2 ea.)		
05	MAIN CABIN		XXXXXXXX
	A. Passenger Seats		
	(1) Seat belts and life vests (yellow) at each seat		
	B. Emergency Escape Hatches Installed		
06	AFT CABIN AND REAR VESTIBULE AREA		XXXXXXXX
	A. Last O/H Compt - LH side		
	(1) Megaphone (2) EEMK (3) AED		
	B. Last O/H Compt - RH side		
	(1) Infant Life Vests (10) (2) Demo Pouch		
	C. Behind Last Row Coach Seat, RH Side		
	(1) Wheelchair		
	D. F/A Station at Aft LT Door		
	(1) F/A Handset (2) F/A Seat w/Seat and Shoulder Belts (1) (3) Emergency Flashlights (1) (4) Crew Life Vest - Orange Color (1) (5) PBE (6) Fire Extinguisher - Halon		
	E. F/A Station at RT Door		
	(1) F/A Handset (2) F/A Seat w/Seat and Shoulder Belt (3) Emergency Flashlight		

AIRCRAFT PRE-WEIGHING CHECKLIST
A319 AND A320

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	(4) Crew Life Vest - Orange Color (5) PBE (6) Fire Extinguisher - Halon		
	F. F/A Station at Aft Center Aisle		
	(1) F/A Handset (2) F/A Seat w/Seat and Shoulder Belt (3) Emergency Flashlight (4) Crew Life Vest - Orange Color (5) First Aid Kit (6) Supplemental Equipment Pouch		
	G. Fwd Face Of Aft L/H Lavatory		
	(1) Portable O2 Bottles w/Mask (2) (2) ELT (A/C 700-723, 101-124)		
R	H. Next To Last O/H Compt - RH Side (A/C 700-723, 101-124)		
R	(1) Survival Kit (2)		
	I. Doors L4 and R4		
	(1) Escape Slide/Rafts secured.		
07	THE FOLLOWING EQUIPMENT MUST BE ON BOARD BEFORE WEIGHING THE AIRCRAFT (Except when noted):		XXXXXXXX
	A. Carpets in place B. (Beverage carts, meal carts) trash containers stowed. C. Coffeemakers stowed at proper galley ✓ D. Life vest under each pax seat		
			(Beverage & meal carts are not on A/C)
08	THE FOLLOWING EQUIPMENT MUST BE REMOVED FROM THE AIRCRAFT BEFORE WEIGHING (Except when noted):		XXXXXXXX
	A. All galley supplies B. All lavatory supplies C. All cabin supplies including: (1) Seat back pouch printed material and air sick bags (2) Pillows and blankets		

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PCS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	(3) Magazines D. All tools and protection devices E. Verify all trash containers are empty F. Record any conditions that differ from those listed.		
	Remarks: <u>Beverage + Meal Carts Removed</u> <u>3 Trash Containers Installed in Fwd Galley #2</u> <u>2 small Trash Containers Installed in Aft Galley #5</u>		

END

CARD DATE: 02/17/04

US Airways A319/A320/A321
ISSUED: 07/15/04

CARD NO: JA08-10-3

AIRCRAFT WEIGHING PROCEDURES
PLATFORM SCALES

PAGE 1
PCI P800

STA: CLT

DATE: 7/16/07

ACFT NO: 106

M/HR STD: MECH _____ INSP _____ UTILITY _____ NON/ROUTINE _____


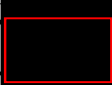

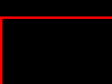
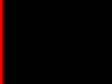
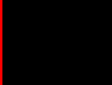
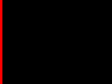
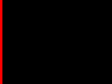

TIME |---|---|---|---|---|---|---|---|---|---|---|---|

FIGURES
Figure 1

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
01	PREPARATION FOR PLATFORM SCALES PROCEDURE.	XXXXXXXX	XXXXXXXX
	A. Position aircraft in hangar so that aircraft can be backed onto platform scales slowly and smoothly.		XXXXXXXX
	B. Check calibration date on scales.	XXXXXXXX	
	C. If dates are good, place scales behind gears.		XXXXXXXX
	(1) Scale operation.	XXXXXXXX	
	NOTE: The weighing platform must have a 30 minute warm-up period before proceeding with weighing.		
	(a) Push ON/OFF switch at weight platform readout. The display will indicate DISPLAY check for approximately 30 seconds, then indicated segment check should show a solid block in each of the sixteen character positions. After which, it will indicate some + or - weight reading.		
	(b) Push and hold pressure on the contrast switch until the desired contrast is attained for best viewing, then release switch.		
	(c) Push autozero switch. The display will indicated "0".		
	D. Verify that Pre-weighing checklist JA08-10-1 (or JA08-10-2) has been accomplished.	XXXXXXXX	

CONT'D

AIRCRAFT WEIGHING PROCEDURES
PLATFORM SCALES

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	E. Verify all landing gears have downlock pins installed.	XXXXXXXXXX	
	NOTE: Brake hydraulic accumulator must be fully charged and brakes are to be used only in emergency.		
	F. Carefully pull aircraft up the ramps and onto scales so that the wheels are resting on the center of the platform scales. Back the aircraft off the platform scales onto the secondary ramps and check scales for zero load condition. Repeat this procedure 2 more times, for a total of 3 times.		XXXXXXXXXX
	G. Chock wheels (left and right MLG) before tug is disconnected. Make sure chocks are on ramp, not on wheel weighers.		XXXXXXXXXX
	CHOCKS MUST BE INSTALLED EVERY TIME AIRCRAFT IS MOVED ONTO SCALES AND TUG IS DISCONNECTED.		
	H. Verify that brakes are released.		XXXXXXXXXX
	I. Verify Main Landing Gear doors are open with door locks installed.		XXXXXXXXXX
	J. Sump aircraft fuel tanks again making sure no fuel remains.		XXXXXXXXXX
	K. Ensure hangar doors are closed with no drafts.		XXXXXXXXXX
02	LEVEL AIRCRAFT USING ONE OF THE TECHNIQUES BELOW.		XXXXXXXXXX
	A. Clinometer (1) Open access panel 192MB to view trim indicator. (Ref: Figure 1) (2) Lower or inflate struts until bubble is in the D4 position. NOTE: D4 position relates to a longitudinal and transverse angle of zero degrees.		

AIRCRAFT WEIGHING PROCEDURES
PLATFORM SCALES

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
	<p>B. Spirit level</p> <p>(1) Place a spirit level on a track in the forward cargo in the Y axis. Lower or inflate main gear struts to obtain transverse alignment.</p> <p>(2) Move level to a track in the X axis. Lower or inflate nose gear strut to obtain longitudinal alignment.</p> <p>(3) Re-check transverse alignment.</p>		
03	WEIGH AIRCRAFT (USE WEIGHT SHEET JA08-10-4).	XXXXXXXXXX	XXXXXXXXXX
	<p>A. Record weight readings from weight reaction points on weigh sheet under FIRST WEIGHING for all scale readings (scale readings should remain constant). If malfunction occurs, troubleshoot for the problem, wind draft, aircraft, scales, etc.</p> <p>B. Move aircraft off scales, check drift and enter under DRIFT CORRECTION on weight sheet.</p> <p>C. Zero scales and reposition aircraft back on center of scale platform for second weighing.</p> <p>(1) Recheck for zero degrees longitudinally and laterally and adjust oleo struts accordingly.</p> <p>(2) Read scales and record on weight sheet.</p> <p>D. Move aircraft off scales, check drift and enter under DRIFT CORRECTION on weight sheet.</p> <p>E. Service all landing gear oleo struts to proper extensions.</p> <p>(1) Main Landing Gear (Ref MM 12-14-32-614-003) Nose Landing Gear (Ref MM 12-14-32-614-004)</p>	XXXXXXXXXX	[REDACTED]
		[REDACTED]	[REDACTED]
		XXXXXXXXXX	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	XXXXXXXXXX
		[REDACTED]	[REDACTED]
04	RETURN AIRCRAFT TO NORMAL. SET BRAKES/CHOCK, REFUEL, ETC.	[REDACTED]	XXXXXXXXXX
05	CALCULATE THE NET WEIGHT ON WEIGHT SHEET, CARD JA08-10-4.	XXXXXXXXXX	[REDACTED]
06	RETURN SCALE PLATFORMS AND RAMPS TO DESIGNATED STORAGE CARTS AND ENSURE PLATFORM CELLS ARE RE-CONNECTED TO CHARGER.	[REDACTED]	XXXXXXXXXX

CARD DATE: 02/17/04

US Airways A319/A320/A321
ISSUED: 07/15/04

CARD NO: JA08-10-3

AIRCRAFT WEIGHING PROCEDURES
PLATFORM SCALES

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POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
07	COMPLETE DDE AND LOG BOOK ENTRY INDICATING PCI P800, JOB CARD JA08-10-1 (or JA08-10-2), AND JA08-10-4, "AIRCRAFT WEIGHING" WAS ACCOMPLISHED. ENSURE ALL COMPLETED WEIGHT RELATED DOCUMENTATION IS GIVEN TO PLANNING/PRODUCTION SUPERVISION.	[REDACTED]	[REDACTED]
08	FAX THE COMPLETED PRE-WEIGHING CHECKLIST AND WEIGH SHEET TO OPERATIONS ENGINEERING/PIT (412-747-5195). ROUTE COMPLETED CARD TO TECHNICAL RECORDS - PIT. (PLANNER/SUPERVISOR TO SIGN ACCOMPLISHED BY BLOCK)	[REDACTED]	XXXXXXXX

END

CARD DATE: 02/17/04

US Airways A319/A320/A321
ISSUED: 07/15/04

CARD NO: JA08-10-4

FAXED
7-16-04

**AIRCRAFT WEIGHT SHEET
PLATFORM SCALES**

PAGE: 1
PCI P800

STA: CLT

DATE: 7/16/04

ACFT NO: 106

POS	JOB DESCRIPTION	ACCOM BY	CHECK BY
01	COMPLETE WEIGHT SHEET.	XXXXXXXX	

FIRST WEIGHING	SCALE S/N	SCALE WT.	DRIFT CORR. (+) (-)	LATITUDE CORR.	NET WEIGHT
NOSE	<u>61131</u>	<u>10361</u>	<u>0</u>		<u>10361</u>
LEFT Inboard	<u>61129</u>	<u>17923</u>	<u>0</u>		<u>17923</u>
Outboard	<u>61133</u>	<u>23092</u>	<u>0</u>		<u>23092</u>
Total Left Wt					<u>41015</u>
RIGHT Inboard	<u>61184</u>	<u>21966</u>	<u>0</u>		<u>21966</u>
Outboard	<u>61179</u>	<u>19957</u>	<u>0</u>		<u>19957</u>
Total Right Wt					<u>41923</u>
TOTAL AS WEIGHED					<u>93299</u>

SECOND WEIGHING	SCALE S/N	SCALE WT.	DRIFT CORR. (+) (-)	LATITUDE CORR.	NET WEIGHT
NOSE	<u>61131</u>	<u>10374</u>	<u>0</u>		<u>10374</u>
LEFT Inboard	<u>61129</u>	<u>17925</u>	<u>0</u>		<u>17925</u>
Outboard	<u>61133</u>	<u>23090</u>	<u>0</u>		<u>23090</u>
Total Left Wt					<u>41015</u>
RIGHT Inboard	<u>61184</u>	<u>21980</u>	<u>0</u>		<u>21980</u>
Outboard	<u>61179</u>	<u>19946</u>	<u>0</u>		<u>19946</u>
Total Right Wt					<u>41926</u>
TOTAL AS WEIGHED					<u>93315</u>

REMARKS: _____

CHECKLIST AND WEIGHING COMPLETED

INSPECTOR

7-16-04

END

[REDACTED]

From: [REDACTED]
Sent: Wednesday, January 21, 2009 12:05 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: N106US Weight & Balance Information

[REDACTED] I'm the US Airways representative on the NTSB performance and weight & balance group. [REDACTED] asked me to send you the Weight/Arm and Moment for aircraft 106. Per the flight history on the 15th, the OEW was 98,000 lbs, Arm 743. inches, Moment 72,814,000 in-lbs. [REDACTED]