

DCA21FA174

OPERATIONAL FACTORS/HUMAN PERFORMANCE

Attachment 15

Rhoades Aviation, Inc. Aircraft Runway Analysis Manual [Excerpts]

May 4, 2022



Boeing 737-200C

Runway Analysis Manual

RAM

Manual Administrator:
Director of Operations

FAA Air Carrier JRAA169N
100 Iolana Place
Honolulu, Hawaii 9681

This manual is issued to:

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*
*          SPECIAL DEPARTURE PROCEDURES          *
*
*****
*
*
*          HONOLULU, HI          PHNL          *
*          INOUYE INTL          24 Jun 21 UTC   *
*
*
*          Rwy          TAKEOFF WEIGHTS FOR RWY 08RDP REQUIRE          *
*          08RDP          THE USE OF THIS TAILORED NON-RNAV DEPARTURE          *
*                          PROCEDURE          *
*
*                          NOTE: NON-RNAV PROCEDURE. ALL FIXES          *
*                          ARE FLY-OVER FIXES UNLESS OTHERWISE          *
*                          NOTED. ALL TURNS ARE CLIMBING 15 DEGREES          *
*                          OF BANK UNLESS OTHERWISE NOTED.          *
*
*                          MAINTAIN RUNWAY HEADING TO HNL 1.3 DME          *
*                          (0.2 NM FROM DER)          *
*
*                          TURN RIGHT HEADING 220 DEGREES          *
*
*                          ###          *
*
*****
*****
* These procedures describe the non-standard, one engine          *
* inoperative, departure flight path. The maximum allow-          *
* able takeoff weights, presented in the attached analysis,          *
* are based upon the procedure(s) outlined above.          *
*
*****apg

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-- HNL - PHNL --

TAKEOFF PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUE INTL

TAIL N810TA

TAKEOFF FLAPS 2.0 DEGREES

AIR COND BLEED ON

** RWY04RDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

** RWY08LDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

RWY 26R-C INTXN T/O FROM C - 11700 FT

** RWY08RDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

RUNWAY	04RDP	22L	08LDP	26R-C	08RDP	26L	
TORA (FT)	9002	9002	12312	11700	12000	12000	
TODA (FT)	9002	9002	12312	11700	12000	12000	CLIMB
ASDA (FT)	8952	8939	12312	11700	12000	12000	
SLOPE	0.00	0.00	-0.02	0.03	0.00	0.00	LIMIT

TMP DEG	C	MAX EPR	LIMIT WEIGHT / LIMIT CODE							
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10	2.01	99610 O	119500 S	99690 O	116270 O	119500 S	119500 S	119500 S	108210
12	2.01	99600 O	119500 S	99650 O	116220 O	119500 S	119500 S	119500 S	108210
14	2.01	99560 O	119500 S	99600 O	116160 O	119500 S	119500 S	119500 S	108210
16	2.01	99500 O	119500 S	99530 O	115960 O	119500 S	119500 S	119500 S	108210
17	2.01	99490 O	119500 S	99510 O	115930 O	119500 S	119500 S	119500 S	108210
18	2.01	99470 O	119500 S	99490 O	115910 O	119500 S	119500 S	119500 S	108210
19	2.01	99460 O	119500 S	99480 O	115880 O	119500 S	119500 S	119500 S	108210
20	2.01	99450 O	119500 S	99460 O	115860 O	119500 S	119500 S	119500 S	108210
21	2.01	99450 O	119500 S	99440 O	115830 O	119500 S	119500 S	119500 S	108210
22	2.01	99430 O	119500 S	99430 O	115810 O	119500 S	119500 S	119500 S	108210
23	2.01	99420 O	119500 S	99410 O	115780 O	119500 S	119500 S	119500 S	108210
24	2.01	99410 O	119500 S	99390 O	115750 O	119500 S	119500 S	119500 S	108210
25	2.01	99400 O	119500 S	99370 O	115720 O	119500 S	119500 S	119500 S	108210
26	2.01	99380 O	119500 S	99350 O	115690 O	119500 S	119500 S	119500 S	108210
27	2.01	99360 O	119500 S	99330 O	115670 O	119500 S	119500 S	119500 S	108210
28	2.01	99350 O	119500 S	99310 O	115640 O	119500 S	119500 S	119500 S	108210
29	2.01	99260 O	119500 S	99220 O	115520 O	119500 S	119500 S	119500 S	108100
30	2.00	98550 O	118870 O	98520 O	114710 O	119500 S	119500 S	119500 S	107120
31	1.99	97850 O	118100 O	97820 O	113900 O	119500 S	119500 S	119500 S	106130
32	1.98	97150 O	117340 O	97140 O	113110 O	119500 S	119500 S	119500 S	105150
34	1.96	95540 O	115600 O	95550 O	111270 O	119500 S	119500 S	119500 S	103430
36	1.94	93950 O	113850 O	93970 O	109440 O	117630 O	119500 S	119500 S	101750
38	1.92	92400 O	112140 O	92440 O	107680 O	115760 O	119500 S	119500 S	100050
40	1.91	90840 O	110540 O	90910 O	105980 O	113960 O	119500 S	119500 S	98250
42	1.89	89310 O	108970 O	89390 O	104320 O	112210 O	118540 O	118540 O	96460
44	1.87	87840 O	107360 O	87930 O	102660 O	110420 O	116630 O	116630 O	94690
46	1.85	86340 O	105680 O	86450 O	100920 O	108510 O	114620 O	114620 O	92970
48	1.83	84860 O	104050 O	84990 O	99240 O	106680 O	112590 O	112590 O	91240

HW +LBS/KT	93	0	101	66	0	0	
TW -LBS/KT	356	628	375	316	257	164	

WET RUNWAY-LB	1550	1550	1550	1550	1550	1550	
V1-KIAS	9	6	9	6	6	6	
ANTISKID INOP-LB	10	7760	0	0	690	1790	
V1-KIAS	0	11	0	0	1	8	
A/C OFF +LB	1620	1700	1590	1920	1830	2010	2070
ENG A/I ON -LB	30	0	60	50	0	0	0
ENG+WNG ON -LB	3740	1470	3590	4350	0	0	5200
ACCEL ALT (MSL)	900	810	810	810	810	810	

*** CATEGORY A BRAKES ***

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

** AFM APPX 73 FUSELAGE REPAIRS 28351-32400 SQ.IN. **

*** OBSERVE STRUCTURAL LIMITS ***

24Jun21

-- HNL - PHNL --

TAKEOFF PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUE INTL

TAIL N810TA

TAKEOFF FLAPS 5.0 DEGREES

AIR COND BLEED ON

** RWY04RDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

** RWY08LDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

RWY 26R-C INTXN T/O FROM C - 11700 FT

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RUNWAY	04RDP	22L	08LDP	26R-C	08RDP	26L	
TORA (FT)	9002	9002	12312	11700	12000	12000	
TODA (FT)	9002	9002	12312	11700	12000	12000	CLIMB
ASDA (FT)	8952	8939	12312	11700	12000	12000	
SLOPE	0.00	0.00	-0.02	0.03	0.00	0.00	LIMIT

TMP DEG	C	MAX EPR	LIMIT WEIGHT / LIMIT CODE							
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10	2.01	97900 O	119500 S	98130 O	114060 O	119500 S	119500 S	119500 S	105320
12	2.01	97880 O	119500 S	98090 O	114000 O	119500 S	119500 S	119500 S	105320
14	2.01	97850 O	119500 S	98050 O	113950 O	119500 S	119500 S	119500 S	105330
16	2.01	97780 O	119500 S	97980 O	113770 O	119500 S	119500 S	119500 S	105330
17	2.01	97770 O	119500 S	97960 O	113750 O	119500 S	119500 S	119500 S	105330
18	2.01	97760 O	119500 S	97940 O	113720 O	119500 S	119500 S	119500 S	105330
19	2.01	97750 O	119500 S	97920 O	113710 O	119500 S	119500 S	119500 S	105330
20	2.01	97740 O	119500 S	97910 O	113690 O	119500 S	119500 S	119500 S	105330

21	2.01	97730 O	119500 S	97900 O	113660 O	119500 S	119500 S	119500 S	105330
22	2.01	97730 O	119490 O	97880 O	113640 O	119500 S	119500 S	119500 S	105330
23	2.01	97720 O	119360 O	97870 O	113620 O	119500 S	119500 S	119500 S	105330
24	2.01	97700 O	119290 O	97850 O	113600 O	119500 S	119500 S	119500 S	105330
25	2.01	97690 O	119250 O	97840 O	113580 O	119500 S	119500 S	119500 S	105330

26	2.01	97680 O	119200 O	97830 O	113560 O	119500 S	119500 S	119500 S	105330
27	2.01	97670 O	119110 O	97810 O	113530 O	119500 S	119500 S	119500 S	105330
28	2.01	97670 O	119050 O	97800 O	113510 O	119500 S	119500 S	119500 S	105330
29	2.01	97580 O	118910 O	97710 O	113400 O	119500 S	119500 S	119500 S	105220
30	2.00	96870 O	118110 O	97010 O	112590 O	119500 S	119500 S	119500 S	104270

31	1.99	96170 O	117320 O	96320 O	111790 O	119500 S	119500 S	119500 S	103330
32	1.98	95470 O	116530 O	95630 O	111000 O	119060 O	119500 S	119500 S	102380
34	1.96	93890 O	114710 O	94050 O	109190 O	117100 O	119500 S	119500 S	100730
36	1.94	92330 O	112910 O	92500 O	107390 O	115170 O	119500 S	119500 S	99110
38	1.92	90800 O	111150 O	90990 O	105660 O	113300 O	119500 S	119500 S	97480
40	1.91	89270 O	109470 O	89470 O	103990 O	111530 O	117620 O	117620 O	95750
42	1.89	87810 O	107850 O	88020 O	102360 O	109800 O	115780 O	115780 O	94030
44	1.87	86370 O	106190 O	86600 O	100740 O	108030 O	113870 O	113870 O	92320
46	1.85	84870 O	104460 O	85120 O	98970 O	106160 O	111820 O	111820 O	90670
48	1.83	83400 O	102810 O	83670 O	97280 O	104320 O	109840 O	109840 O	89010

HW +LBS/KT	80	0	85	59	0	0	
TW -LBS/KT	345	429	359	279	227	120	

WET RUNWAY-LB	1550	1550	1550	1550	1550	1550	
V1-KIAS	9	6	9	7	6	6	
ANTISKID INOP-LB	20	5100	0	0	0	500	
V1-KIAS	0	11	0	0	1	8	
A/C OFF +LB	1370	1890	1360	1850	1900	2000	1990
ENG A/I ON -LB	30	0	40	50	0	0	0
ENG+WNG ON -LB	3760	2950	3610	4360	2180	0	5090
ACCEL ALT (MSL)	910	810	810	810	810	810	

*** CATEGORY A BRAKES ***

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

** AFM APPX 73 FUSELAGE REPAIRS 28351-32400 SQ.IN. **

*** OBSERVE STRUCTURAL LIMITS ***

24Jun21

-- HNL - PHNL --

TAKEOFF PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUE INTL

TAIL N810TA

TAKEOFF FLAPS 15.0 DEGREES

AIR COND BLEED ON

** RWY04RDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

** RWY08LDP REQUIRES USE OF ATTACHED SPECIAL DEPARTURE PROCEDURE **

RWY 26R-C INTXN T/O FROM C - 11700 FT

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RUNWAY	04RDP	22L	08LDP	26R-C	08RDP	26L	
TORA (FT)	9002	9002	12312	11700	12000	12000	
TODA (FT)	9002	9002	12312	11700	12000	12000	CLIMB
ASDA (FT)	8952	8939	12312	11700	12000	12000	
SLOPE	0.00	0.00	-0.02	0.03	0.00	0.00	LIMIT

TMP DEG	C	MAX EPR	LIMIT WEIGHT / LIMIT CODE						
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10	2.01	89280	0	109620	0	89850	0	102610	0	108310	0	113550	0	94020
12	2.01	89270	0	109590	0	89830	0	102620	0	108300	0	113540	0	94020
14	2.01	89250	0	109550	0	89820	0	102570	0	108290	0	113530	0	94030
16	2.01	89200	0	109400	0	89760	0	102500	0	108220	0	113460	0	94030
17	2.01	89190	0	109390	0	89750	0	102490	0	108220	0	113460	0	94030
18	2.01	89190	0	109380	0	89730	0	102470	0	108220	0	113450	0	94030
19	2.01	89180	0	109370	0	89730	0	102460	0	108210	0	113450	0	94030
20	2.01	89180	0	109360	0	89730	0	102450	0	108210	0	113450	0	94030

21	2.01	89170	0	109340	0	89710	0	102440	0	108200	0	113450	0	94030
22	2.01	89160	0	109330	0	89700	0	102430	0	108190	0	113440	0	94030
23	2.01	89160	0	109310	0	89700	0	102420	0	108180	0	113430	0	94030
24	2.01	89150	0	109290	0	89700	0	102410	0	108180	0	113430	0	94030
25	2.01	89150	0	109280	0	89680	0	102390	0	108190	0	113420	0	94030

26	2.01	89140	0	109260	0	89670	0	102380	0	108190	0	113420	0	94030
27	2.01	89140	0	109250	0	89670	0	102370	0	108190	0	113410	0	94030
28	2.01	89140	0	109230	0	89660	0	102360	0	108180	0	113410	0	94030
29	2.01	89060	0	109130	0	89570	0	102270	0	108090	0	113310	0	93930
30	2.00	88400	0	108340	0	88930	0	101530	0	107290	0	112480	0	93110

31	1.99	87760	0	107570	0	88280	0	100800	0	106500	0	111650	0	92280
32	1.98	87120	0	106800	0	87660	0	100080	0	105710	0	110840	0	91450
34	1.96	85660	0	105040	0	86190	0	98420	0	103950	0	108980	0	90010
36	1.94	84220	0	103300	0	84730	0	96780	0	102190	0	107130	0	88600
38	1.92	82820	0	101620	0	83340	0	95210	0	100490	0	105350	0	87170
40	1.91	81380	0	99990	0	81980	0	93600	0	98840	0	103630	0	85670
42	1.89	80080	0	98390	0	80670	0	92030	0	97210	0	101970	0	84160
44	1.87	78830	0	96750	0	79340	0	90460	0	95550	0	100270	0	82670
46	1.85	77400	0	95070	0	77900	0	88920	0	93850	0	98460	0	81220
48	1.83	75960	0	93470	0	76540	0	87420	0	92220	0	96730	0	79780

HW +LBS/KT	64	31	72	42	22	7
TW -LBS/KT	275	158	279	201	105	45

WET RUNWAY-LB	1550	1550	1550	1550	1550	1550	
V1-KIAS	10	7	10	8	7	7	
ANTISKID INOP-LB	0	0	0	0	0	0	
V1-KIAS	0	0	0	0	0	0	
A/C OFF +LB	1330	1700	1310	1690	1720	1860	1740
ENG A/I ON -LB	20	40	30	30	10	10	0
ENG+WNG ON -LB	3170	3950	3110	3670	4180	4240	4550
ACCEL ALT (MSL)	920	810	810	810	810	810	

*** CATEGORY A BRAKES ***

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

** AFM APPX 73 FUSELAGE REPAIRS 28351-32400 SQ.IN. **

*** OBSERVE STRUCTURAL LIMITS ***

24Jun21

-- HNL - PHNL --

LANDING PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUE INTL

** TAIL N810TA **

*** APPROACH CLIMB LIMITS - APPROACH FLAPS 10 ***

CLIMB PERFORMANCE NOT LIMITING BELOW 33 (C)

AIR CONDITIONING ON AND OPERATED FROM ENGINE AIRBLEED

TEMP (C)	-20	33	35	40	45	48
CLMB WT	109.1	105.0	103.6	99.4	94.8	91.9

CORRECTIONS: ENG+WNG A/I ON SUBTRACT 5743 POUNDS ABOVE -20. DEGREES C
 ICE CORRECTION SUBTRACT 8414 POUNDS ABOVE -20. DEGREES C
 AIR CONDITIONING OFF ADD 2500 POUNDS WHEN BOTH ENG AIRBLEEDS NOT USED

*** LANDING FIELD LENGTH LIMITS - LANDING FLAPS 30 ***

RUNWAY LENGTH WIND SLOPE KTS	ANTI-SKID SPLRS-OPER		OPERATIONAL MANUAL SPLR		ANTI-SKID SPLRS-OPER		INOPERATIVE MANUAL SPLR		
	DRY	WET	DRY	WET	DRY	WET	DRY	WET	
04R 8950FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	101.3	NA
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	78.6
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	87.9
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	94.7
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	101.5
	CRT TW	-10	-10	-10	-10	NA	NA	-8	0
	SUB LB/KT	0	0	0	0	NA	NA	-1829	-1871
04R-08L 6250FT 0.00	-10	105.0	101.0	104.6	97.1	NA	NA	NA	NA
	-5	105.0	105.0	105.0	103.2	NA	NA	71.1	NA
	0	105.0	105.0	105.0	105.0	NA	NA	80.3	NA
	10	105.0	105.0	105.0	105.0	NA	NA	86.8	NA
	20	105.0	105.0	105.0	105.0	NA	NA	93.4	NA
	CRT TW	-10	-6	-9	-3	NA	NA	0	0
	SUB LB/KT	0	-995	-441	-1123	NA	NA	-1822	NA
22L 8937FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	101.1	NA
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	78.4
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	87.8
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	94.6
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	101.3
	CRT TW	-10	-10	-10	-10	NA	NA	-8	0
	SUB LB/KT	0	0	0	0	NA	NA	-1927	-1870
08L 12300FT -0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

** AFM APPX 73 FUSELAGE REPAIRS 28351-32400 SQ.IN. **

-- HNL - PHNL --

LANDING PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUEY INTL

** TAIL N810TA **

*** APPROACH CLIMB LIMITS - APPROACH FLAPS 10 ***

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TEMP (C)	-20	33	35	40	45	48
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 ICE CORRECTION SUBTRACT 8414 POUNDS ABOVE -20. DEGREES C
 AIR CONDITIONING OFF ADD 2500 POUNDS WHEN BOTH ENG AIRBLEEDS NOT USED

*** LANDING FIELD LENGTH LIMITS - LANDING FLAPS 30 ***

RUNWAY LENGTH WIND SLOPE KTS	ANTI-SKID SPLRS-OPER		OPERATIONAL MANUAL SPLR		ANTI-SKID SPLRS-OPER		INOPERATIVE MANUAL SPLR		
	DRY	WET	DRY	WET	DRY	WET	DRY	WET	
08L-04L 9300FT -0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	73.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	82.5
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	92.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	98.9
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	0
	SUB LB/KT	0	0	0	0	NA	NA	0	-1897
26R 12300FT 0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0
08R 12000FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	102.3
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-8
	SUB LB/KT	0	0	0	0	NA	NA	0	-1344
26L 12000FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	102.3
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-8
	SUB LB/KT	0	0	0	0	NA	NA	0	-1344

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

** AFM APPX 73 FUSELAGE REPAIRS 28351-32400 SQ.IN. **

-- HNL - PHNL --

LANDING PERFORMANCE

-- HNL - PHNL --

ELEVATION 13

B737-200 ADV

HONOLULU, HI

JT8D-9/9A ENG

INOUEY INTL

** TAIL N810TA **

*** APPROACH CLIMB LIMITS - APPROACH FLAPS 10 ***

CLIMB PERFORMANCE NOT LIMITING BELOW 33 (C)

AIR CONDITIONING ON AND OPERATED FROM ENGINE AIRBLEED

TEMP (C)	-20	33	35	40	45	48
CLMB WT	109.1	105.0	103.6	99.4	94.8	91.9

CORRECTIONS: ENG+WNG A/I ON SUBTRACT 5743 POUNDS ABOVE -20. DEGREES C
 ICE CORRECTION SUBTRACT 8414 POUNDS ABOVE -20. DEGREES C
 AIR CONDITIONING OFF ADD 2500 POUNDS WHEN BOTH ENG AIRBLEEDS NOT USED

*** LANDING FIELD LENGTH LIMITS - LANDING FLAPS 40 ***

RUNWAY LENGTH WIND SLOPE KTS	ANTI-SKID SPLRS-OPER		OPERATIONAL MANUAL SPLR		ANTI-SKID SPLRS-OPER		INOPERATIVE MANUAL SPLR		
	DRY	WET	DRY	WET	DRY	WET	DRY	WET	
04R 8950FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	75.4
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	84.9
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	94.5
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	101.5
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	0
	SUB LB/KT	0	0	0	0	NA	NA	0	-1913
04R-08L 6250FT 0.00	-10	105.0	104.1	105.0	101.2	NA	NA	NA	NA
	-5	105.0	105.0	105.0	105.0	NA	NA	76.7	NA
	0	105.0	105.0	105.0	105.0	NA	NA	86.0	NA
	10	105.0	105.0	105.0	105.0	NA	NA	92.7	NA
	20	105.0	105.0	105.0	105.0	NA	NA	99.4	73.0
	CRT TW	-10	-9	-10	-7	NA	NA	0	0
	SUB LB/KT	0	-924	0	-1258	NA	NA	-1859	NA
22L 8937FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	75.2
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	84.8
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	94.3
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	101.3
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	0
	SUB LB/KT	0	0	0	0	NA	NA	0	-1912
08L 12300FT -0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0

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*** APPROACH CLIMB LIMITS - APPROACH FLAPS 10 ***

CLIMB PERFORMANCE NOT LIMITING BELOW 33 (C)

AIR CONDITIONING ON AND OPERATED FROM ENGINE AIRBLEED

TEMP (C)	-20	33	35	40	45	48
CLMB WT	109.1	105.0	103.6	99.4	94.8	91.9

CORRECTIONS: ENG+WNG A/I ON SUBTRACT 5743 POUNDS ABOVE -20. DEGREES C
 ICE CORRECTION SUBTRACT 8414 POUNDS ABOVE -20. DEGREES C
 AIR CONDITIONING OFF ADD 2500 POUNDS WHEN BOTH ENG AIRBLEEDS NOT USED

*** LANDING FIELD LENGTH LIMITS - LANDING FLAPS 40 ***

RUNWAY LENGTH WIND SLOPE KTS	ANTI-SKID SPLRS-OPER		OPERATIONAL MANUAL SPLR		ANTI-SKID SPLRS-OPER		INOPERATIVE MANUAL SPLR		
	DRY	WET	DRY	WET	DRY	WET	DRY	WET	
08L-04L 9300FT -0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	79.5
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	89.2
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	98.9
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	0
	SUB LB/KT	0	0	0	0	NA	NA	0	-1940
26R 12300FT 0.02	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0
08R 12000FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0
26L 12000FT 0.00	-10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	-5	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	0	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	10	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	20	105.0	105.0	105.0	105.0	NA	NA	105.0	105.0
	CRT TW	-10	-10	-10	-10	NA	NA	-10	-10
	SUB LB/KT	0	0	0	0	NA	NA	0	0

** SERVICE BULLETIN 737-53A1177 - FUSELAGE + WINDOW REPAIRS **

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