

777-300ER

LHE FLAPS 05

ELEVATION 712 FT RUNWAY 18L OPLA

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ALLAMA IQBAL INTL
LAHORE
777-300ER GE90-115BL DATED 30-JUN-2011

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT	CLIMB	WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)			
C	100KG	-10	0	10	20
60A	2753	2538F/56-62-66	2703F/63-68-71	2756F/65-69-72	2810F/67-69-72
				2754**65-69-72	2772**68-73-75
58A	2815	2579F/57-63-68	2743F/63-69-72	2800F/66-71-74	2857F/68-71-74
					2827**69-74-76
56A	2882	2616F/57-64-69	2783F/64-70-73	2841F/66-72-75	2900F/69-73-76
					2887**69-74-77
54A	2949	2653F/58-65-70	2822F/64-71-75	2880F/67-73-76	2940F/69-75-78
52	3016	2690F/58-66-71	2861F/65-72-76	2920F/67-74-78	2980F/70-76-79
50	3085	2729F/59-67-72	2901F/66-73-77	2961F/68-75-79	3023F/70-77-80
48	3157	2769F/59-68-74	2944F/66-74-79	3005F/69-76-80	3067F/71-78-82
46	3237	2811F/59-69-75	2988F/67-75-80	3050F/69-77-82	3113F/71-79-83
44	3315	2852F/60-70-76	3031F/67-76-81	3094F/70-78-83	3158F/72-80-85
42	3387	2891F/60-71-78	3073F/68-77-83	3137F/70-79-84	3201F/73-81-86
40	3472	2930F/60-72-79	3115F/68-78-84	3179F/71-80-85	3244F/73-82-87
38	3554	2962T/61-72-80	3157F/68-79-85	3222F/71-81-87	3288F/74-83-88
36	3637	2979T/62-73-81	3198F/69-80-86	3263F/71-82-88	3331F/74-84-90
34	3707	2997T/62-73-81	3232F/69-81-87	3299F/72-83-89	3368F/74-85-91
32	3768	3015T/62-73-82	3263F/69-81-88	3332F/72-83-90	3403F/75-85-92
30	3787	3035T/62-74-83	3293F/70-82-89	3363F/72-84-91	3434F/75-86-93
28	3787	3055T/62-74-83	3317F/70-83-90	3387F/73-85-91	3460F/75-87-93
26	3787	3078T/63-75-84	3327F/70-83-90	3397F/73-85-92	3474F/75-87-93
24	3787	3101T/64-76-84	3337F/71-83-90	3408F/73-85-92	3487F/76-87-93
22	3787	3124T/64-76-85	3347F/71-83-91	3418F/74-86-92	3501F/76-87-94
20	3787	3147T/63-77-86	3357F/71-84-91	3429F/74-86-92	3514F/76-88-94
18	3787	3164F/64-78-86	3367F/72-84-91	3440F/74-86-93	3525F/77-88-94
16	3787	3173F/64-78-86	3378F/72-84-91	3450F/75-86-93	3536F/77-88-94
14	3787	3182F/64-78-86	3388F/72-85-92	3463F/75-87-93	3547F/77-89-95
12	3787	3192F/65-79-87	3399F/73-85-92	3477F/75-87-93	3558F/78-89-95
10	3787	3201F/65-79-87	3410F/73-85-92	3491F/75-87-94	3569F/78-89-95
8	3787	3211F/65-79-87	3421F/73-86-92	3505F/76-88-94	3580F/78-90-95
6	3787	3221F/65-80-87	3432F/74-86-93	3518F/76-88-94	3591F/79-90-96
4	3787	3230F/66-80-88	3443F/74-86-93	3529F/76-88-94	3603F/79-90-96
2	3787	3240F/66-80-88	3454F/74-87-93	3540F/77-88-94	3614F/80-91-96
0	3787	3250F/66-80-88	3469F/75-87-93	3552F/77-89-95	3626F/80-91-97
-2	3787	3260F/67-81-88	3483F/75-87-93	3563F/78-89-95	3637F/80-91-97
-4	3787	3270F/67-81-89	3497F/75-87-94	3574F/78-90-95	3649F/81-92-97
-6	3787	3281F/67-81-89	3511F/75-88-94	3586F/78-90-96	3661F/81-92-97
-8	3787	3291F/68-82-89	3523F/76-88-94	3597F/79-90-96	3673F/82-92-98
-10	3787	3302F/68-82-89	3535F/76-88-94	3609F/79-91-96	3685F/82-93-98

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF 340194 KG
MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,
*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3360 M LONG WITH 305 M OF CLEARWAY AND 122 M OF STOPWAY

RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 25 M FOR TODA, 57 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

18L NONE

ENG-OUT PROCEDURE:

NONE

777-300ER

LHE FLAPS 05

ELEVATION 712 FT

RUNWAY 18R LHE

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ALLAMA IQBAL INTL
LAHORE
DATED 27-NOV-2008

777-300ER GE90-115BL VTR

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C 100KG -10 0 10 20

60A	2753	2303F/48-53-59	2453F/55-59-64	2505F/58-61-65	2559F/60-63-67
58A	2815	2343F/49-54-61	2495F/56-60-65	2548F/59-62-67	2602F/61-64-68
56A	2882	2384F/50-56-62	2538F/57-61-67	2591F/60-63-68	2646F/62-65-70
54A	2949	2421F/51-57-63	2579F/58-62-68	2633F/61-64-69	2688F/63-66-71
52	3016	2459F/52-58-65	2621F/59-63-69	2676F/62-65-71	2732F/64-67-72
50	3085	2500F/53-59-66	2665F/60-65-71	2721F/63-67-72	2777F/65-68-74
48	3157	2542F/53-60-67	2712F/61-66-72	2768F/63-68-74	2825F/66-70-75
46	3237	2585F/54-61-69	2759F/62-67-74	2816F/64-69-75	2874F/66-71-77
44	3315	2624F/55-62-70	2799F/62-68-75	2860F/64-70-77	2922F/67-72-78
42	3387	2661F/55-63-71	2838F/63-69-76	2900F/65-71-78	2963F/67-73-80
40	3472	2697F/56-64-73	2876F/63-70-78	2938F/65-72-79	3002F/68-74-81
38	3554	2734F/56-65-74	2915F/63-71-79	2978F/66-73-80	3043F/68-75-82
36	3637	2769F/56-66-75	2952F/64-72-80	3016F/66-74-82	3082F/69-76-83
34	3707	2798F/56-66-76	2983F/64-73-81	3048F/67-75-83	3115F/69-77-84
32	3768	2825F/57-67-77	3012F/64-73-82	3078F/67-75-84	3145F/70-78-85
30	3787	2849F/57-67-78	3039F/65-74-83	3105F/67-76-84	3173F/70-78-86
28	3787	2869F/57-68-78	3061F/65-74-83	3127F/68-77-85	3195F/70-79-87
26	3787	2877F/57-68-79	3070F/65-75-84	3137F/68-77-85	3205F/71-79-87
24	3787	2886F/58-69-79	3079F/66-75-84	3146F/68-77-86	3215F/71-79-87
22	3787	2894F/58-69-79	3088F/66-75-84	3156F/69-77-86	3224F/71-80-88
20	3787	2902F/58-69-79	3097F/66-76-84	3165F/69-78-86	3234F/72-80-88
18	3787	2911F/59-69-79	3106F/67-76-85	3175F/69-78-86	3244F/72-80-88
16	3787	2919F/59-70-80	3116F/67-76-85	3185F/70-78-87	3254F/72-81-88
14	3787	2928F/59-70-80	3125F/67-77-85	3194F/70-79-87	3264F/73-81-89
12	3787	2936F/60-70-80	3135F/68-77-85	3204F/70-79-87	3275F/73-81-89
10	3787	2945F/60-71-80	3145F/68-77-86	3214F/71-79-87	3286F/73-82-89
8	3787	2954F/60-71-81	3155F/68-77-86	3225F/71-80-88	3297F/74-82-89
6	3787	2963F/60-71-81	3165F/69-78-86	3235F/71-80-88	3308F/74-82-90
4	3787	2972F/61-71-81	3175F/69-78-86	3245F/72-80-88	3319F/74-83-90
2	3787	2981F/61-72-81	3185F/69-78-87	3256F/72-81-88	3330F/75-83-90
0	3787	2991F/61-72-82	3195F/70-79-87	3266F/72-81-89	3341F/75-83-90
-2	3787	3000F/62-72-82	3205F/70-79-87	3277F/73-81-89	3352F/75-84-91
-4	3787	3009F/62-73-82	3216F/70-79-87	3288F/73-82-89	3364F/76-84-91
-6	3787	3019F/62-73-82	3226F/71-80-88	3299F/73-82-89	3375F/76-84-91
-8	3787	3028F/63-73-83	3237F/71-80-88	3310F/74-82-90	3387F/76-85-91
-10	3787	3038F/63-74-83	3247F/71-80-88	3322F/74-83-90	3399F/77-85-92

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF 350000 KG

MINIMUM FLAP RETRACTION HEIGHT IS 400 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2743 M LONG WITH 244 M OF CLEARWAY AND 244 M OF STOPWAY

RUNWAY SLOPES ARE -0.05 PERCENT FOR TODA AND -0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 25 M FOR TODA, 57 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

18R NONE

ENG-OUT PROCEDURE:

NONE

777-300ER

LHE FLAPS 05

ELEVATION 712 FT

RUNWAY 36L LHE

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ALLAMA IQBAL INTL
LAHORE
DATED 27-NOV-2008

777-300ER GE90-115BL VTR

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C 100KG -10 0 10 20

60A	2753	2299F/48-53-59	2448F/55-59-64	2501F/58-60-65	2554F/60-62-67
58A	2815	2339F/49-54-60	2490F/56-60-65	2543F/59-62-66	2597F/61-64-68
56A	2882	2379F/50-55-62	2533F/57-61-66	2586F/60-63-68	2641F/62-65-69
54A	2949	2419F/51-56-63	2574F/58-62-68	2628F/61-64-69	2683F/63-66-71
52	3016	2459F/52-58-65	2616F/59-63-69	2671F/62-65-71	2727F/64-67-72
50	3085	2501F/53-59-66	2660F/60-64-71	2716F/63-66-72	2772F/65-68-74
48	3157	2545F/54-60-68	2707F/61-66-72	2762F/63-68-74	2819F/66-70-75
46	3237	2588F/55-61-69	2755F/62-67-74	2811F/64-69-75	2869F/66-71-77
44	3315	2626F/55-62-70	2802F/63-68-75	2859F/65-70-77	2918F/67-72-78
42	3387	2663F/56-63-71	2840F/63-69-76	2902F/66-71-78	2965F/68-73-80
40	3472	2699F/56-64-73	2878F/64-70-78	2940F/66-72-79	3004F/68-74-81
38	3554	2736F/57-65-74	2917F/64-71-79	2980F/66-73-81	3045F/69-75-82
36	3637	2771F/57-66-75	2954F/64-72-80	3018F/67-74-82	3084F/69-76-83
34	3707	2800F/57-66-76	2986F/65-73-81	3051F/67-75-83	3117F/70-77-84
32	3768	2827F/57-67-77	3015F/65-73-82	3080F/68-75-84	3147F/70-78-85
30	3787	2852F/58-68-78	3041F/65-74-83	3108F/68-76-84	3175F/71-78-86
28	3787	2872F/58-68-78	3063F/66-74-83	3130F/68-77-85	3198F/71-79-87
26	3787	2880F/58-68-79	3072F/66-75-84	3139F/69-77-85	3207F/71-79-87
24	3787	2888F/58-69-79	3081F/66-75-84	3148F/69-77-86	3217F/72-79-87
22	3787	2896F/59-69-79	3090F/67-75-84	3158F/69-78-86	3227F/72-80-88
20	3787	2904F/59-69-79	3099F/67-76-84	3167F/70-78-86	3237F/72-80-88
18	3787	2913F/59-69-79	3109F/67-76-85	3177F/70-78-86	3247F/73-80-88
16	3787	2921F/60-70-80	3118F/68-76-85	3187F/70-78-87	3257F/73-81-88
14	3787	2930F/60-70-80	3128F/68-77-85	3197F/71-79-87	3267F/73-81-89
12	3787	2939F/60-70-80	3138F/68-77-85	3207F/71-79-87	3278F/74-81-89
10	3787	2948F/61-71-80	3147F/69-77-86	3217F/71-79-87	3288F/74-82-89
8	3787	2956F/61-71-81	3157F/69-78-86	3227F/72-80-88	3299F/74-82-89
6	3787	2965F/61-71-81	3167F/69-78-86	3237F/72-80-88	3310F/75-82-90
4	3787	2975F/61-72-81	3177F/70-78-86	3248F/72-80-88	3321F/75-83-90
2	3787	2984F/62-72-81	3187F/70-78-87	3258F/73-81-88	3332F/75-83-90
0	3787	2993F/62-72-82	3198F/70-79-87	3269F/73-81-89	3343F/76-83-90
-2	3787	3002F/62-72-82	3208F/71-79-87	3280F/73-81-89	3355F/76-84-91
-4	3787	3011F/63-73-82	3218F/71-79-87	3291F/74-82-89	3366F/76-84-91
-6	3787	3021F/63-73-82	3228F/71-80-88	3302F/74-82-89	3378F/77-84-91
-8	3787	3030F/63-73-83	3239F/72-80-88	3313F/74-82-90	3389F/77-85-92
-10	3787	3040F/64-74-83	3250F/72-80-88	3324F/75-83-90	3401F/77-85-92

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF 350000 KG

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 2743 M LONG WITH 274 M OF CLEARWAY AND 274 M OF STOPWAY

RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 25 M FOR TODA, 57 M FOR ASDA OBS FROM LO-FT/M

RUNWAY HT DIST OFFSET HT DIST OFFSET HT DIST OFFSET

36L 56 1200 0

ENG-OUT PROCEDURE:

NONE

777-300ER

LHE FLAPS 05

ELEVATION 712 FT

RUNWAY 36R OPLA

*** FLAPS 05 *** AIR COND OFF ANTI-ICE OFF ALLAMA IQBAL INTL
LAHORE
777-300ER GE90-115BL DATED 30-JUN-2011

A INDICATES OAT OUTSIDE ENVIRONMENTAL ENVELOPE

OAT CLIMB WIND COMPONENT IN KNOTS (MINUS DENOTES TAILWIND)
C 100KG -10 0 10 20

60A	2753	2509*/56-61-65	2636*/62-65-69	2676*/64-67-70	2714*/66-68-71
58A	2815	2554*/57-62-67	2687*/63-67-71	2727*/65-68-72	2767*/67-69-73
56A	2882	2596*/58-63-68	2740*/65-68-72	2781*/66-70-73	2821*/68-71-74
54A	2949	2636*/58-64-70	2785*/65-69-74	2833*/67-71-75	2874*/69-72-76
52	3016	2676*/58-65-71	2828*/66-71-75	2880*/68-72-76	2928*/70-74-78
50	3085	2718*/59-66-72	2873*/66-72-76	2926*/69-74-78	2978*/71-75-79
48	3157	2762*/59-68-74	2920*/67-73-78	2974*/69-75-79	3027*/72-76-81
46	3237	2806F/59-69-75	2969*/67-74-79	3024*/70-76-81	3079*/72-78-82
44	3315	2847F/60-70-76	3016*/67-75-81	3072*/70-77-82	3129*/73-79-84
42	3387	2887F/60-71-78	3062*/68-77-82	3119*/70-78-84	3176*/73-80-85
40	3472	2925F/61-72-79	3107*/68-78-84	3166*/71-79-85	3224*/73-81-87
38	3554	2962T/61-72-80	3152F/68-79-85	3213*/71-81-87	3273*/74-83-88
36	3637	2979T/62-73-81	3192F/69-80-86	3257F/71-82-88	3321*/74-84-89
34	3707	2997T/62-73-81	3226F/69-80-87	3293F/72-82-89	3361*/74-84-91
32	3768	3015T/62-73-82	3258F/69-81-88	3326F/72-83-90	3397F/75-85-92
30	3787	3035T/62-74-83	3288F/70-82-89	3357F/72-84-91	3428F/75-86-92
28	3787	3055T/63-74-83	3311F/70-82-90	3381F/73-84-91	3453F/75-87-93
26	3787	3078T/63-75-84	3321F/70-83-90	3391F/73-85-92	3466F/76-87-93
24	3787	3101T/64-76-84	3331F/71-83-90	3402F/73-85-92	3480F/76-87-93
22	3787	3124T/64-76-85	3341F/71-83-90	3412F/74-85-92	3492*/76-87-94
20	3787	3147T/63-77-86	3351F/71-84-91	3423F/74-86-92	3504*/76-87-94
18	3787	3159F/64-78-86	3362F/72-84-91	3434F/74-86-93	3515*/77-88-94
16	3787	3168F/64-78-86	3372F/72-84-91	3444F/75-86-93	3525*/77-88-94
14	3787	3177F/64-78-86	3382F/72-84-91	3456F/75-87-93	3534*/78-88-94
12	3787	3187F/65-78-87	3393F/73-85-92	3468*/75-87-93	3543*/78-89-95
10	3787	3196F/65-79-87	3404F/73-85-92	3480*/76-87-93	3553*/78-89-95
8	3787	3206F/65-79-87	3415F/73-85-92	3492*/76-87-94	3562*/79-89-95
6	3787	3215F/66-79-87	3426F/74-86-92	3504*/76-87-94	3572*/79-89-95
4	3787	3225F/66-80-88	3437*/74-86-93	3515*/77-88-94	3581*/80-90-95
2	3787	3235F/66-80-88	3447*/74-86-93	3525*/77-88-94	3591*/80-90-96
0	3787	3245F/67-80-88	3457*/75-87-93	3534*/77-88-94	3601*/80-90-96
-2	3787	3255F/67-81-88	3469*/75-87-93	3544*/78-89-95	3610*/81-91-96
-4	3787	3265F/67-81-89	3480*/76-87-93	3553*/78-89-95	3620*/81-91-96
-6	3787	3275F/68-81-89	3492*/76-87-94	3563*/79-89-95	3630*/82-91-97
-8	3787	3286F/68-82-89	3504*/76-87-94	3572*/79-89-95	3639*/82-91-97
-10	3787	3296F/68-82-89	3516*/77-88-94	3582*/80-90-96	3649*/83-92-97

MAX BRAKE RELEASE WT MUST NOT EXCEED MAX CERT TAKEOFF WT OF 340194 KG

MINIMUM FLAP RETRACTION HEIGHT IS 410 FT

LIMIT CODE IS F=FIELD, T=TIRE SPEED, B=BRAKE ENERGY, V=VMCG,

*=OBSTACLE/LEVEL-OFF, **=IMPROVED CLIMB

RUNWAY IS 3360 M LONG WITH 305 M OF CLEARWAY AND 122 M OF STOPWAY

RUNWAY SLOPES ARE 0.05 PERCENT FOR TODA AND 0.05 PERCENT FOR ASDA

LINE-UP DISTANCES: 25 M FOR TODA, 57 M FOR ASDA OBS FROM LO-FT/M

RUNWAY	HT	DIST	OFFSET	HT	DIST	OFFSET	HT	DIST	OFFSET
36R	36	620	0	53	800	0	54	990	0

ENG-OUT PROCEDURE:

NONE

L-4