

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 138 KIAS							WEIGHT = 12200 LBS							VENR = 137 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2										
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST		V1 DIST	V1 DIST								
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS										
-25	92	4440	92	3560	92	3280	92	3020	93	2800	107	115	-25	92	4430	92	3550	92	3280	92	3020	92	2760	107	114		
-20	92	4510	92	3620	92	3340	92	3080	93	2850	107	115	-20	92	4500	92	3610	92	3340	92	3070	92	2820	107	114		
-15	92	4580	92	3680	92	3410	92	3140	93	2900	107	115	-15	92	4580	92	3680	92	3400	92	3130	92	2880	107	114		
-10	92	4650	92	3750	92	3470	92	3200	93	2960	107	115	-10	92	4650	92	3740	92	3460	92	3190	92	2930	107	114		
-5	92	4730	92	3810	92	3530	92	3260	92	3010	107	115	-5	92	4720	92	3810	92	3530	92	3250	92	2990	107	114		
0	92	4800	92	3880	92	3590	92	3320	92	3060	107	115	0	92	4790	92	3870	92	3590	92	3310	92	3050	107	114		
5	92	4870	92	3940	92	3660	92	3380	92	3120	107	115	5	92	4860	92	3940	92	3650	92	3370	92	3110	107	114		
10	92	4940	92	4010	92	3720	92	3440	92	3170	107	115	10	92	4930	92	4000	92	3710	92	3430	92	3170	107	114		
15	92	5000	91	4010	92	3760	92	3520	93	3290	108	115	15	91	4940	91	4000	91	3710	91	3430	92	3200	107	114		
20	93	5230	92	4190	93	3930	94	3690	94	3450	108	115	20	92	5100	91	4080	92	3830	92	3590	93	3350	107	114		
25	95	5530	94	4430	95	4160	95	3910	96	3660	108	115	25	94	5390	93	4310	93	4050	94	3800	94	3550	107	114		
30	97	5860	96	4700	96	4420	97	4150	97	3880	109	115	30	96	5710	94	4580	95	4300	95	4030	96	3770	108	114		
35	99	6330	98	5070	98	4770	99	4480	99	4200	109	115	35	98	6160	97	4930	97	4630	97	4350	98	4080	108	114		
38	101	6680	99	5340	100	5030	100	4730	101	4430	110	115	38	100	6610	99	5280	99	4970	99	4670	100	4380	109	114		
39	102	6800	100	5440	100	5130	101	4820	101	4520	110	115	40	101	6740	99	5380	100	5070	100	4760	100	4460	109	114		

WEIGHT = 12000 LBS							VENR = 136 KIAS							WEIGHT = 11800 LBS							VENR = 134 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2										
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST		V1 DIST	V1 DIST								
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS										
-25	92	4430	92	3550	92	3280	92	3010	92	2760	106	114	-25	92	4420	92	3540	92	3270	92	3010	92	2760	105	113		
-20	92	4500	92	3610	92	3340	92	3070	92	2820	106	114	-20	92	4490	92	3610	92	3330	92	3070	92	2820	105	113		
-15	92	4570	92	3670	92	3400	92	3130	92	2880	106	114	-15	92	4560	92	3670	92	3390	92	3130	92	2870	105	113		
-10	92	4640	92	3740	92	3460	92	3190	92	2930	106	114	-10	92	4630	92	3730	92	3460	92	3190	92	2930	105	113		
-5	92	4710	92	3800	92	3520	92	3250	92	2990	106	114	-5	92	4700	92	3800	92	3520	92	3250	92	2990	105	113		
0	92	4780	92	3870	92	3580	92	3310	92	3050	106	114	0	92	4770	92	3860	92	3580	92	3310	92	3050	105	113		
5	92	4850	92	3930	92	3650	92	3370	92	3110	106	114	5	92	4850	92	3930	92	3640	92	3370	92	3100	104	113		
10	92	4930	92	4000	92	3710	92	3430	92	3160	106	114	10	92	4920	92	3990	92	3700	92	3430	92	3160	104	113		
15	91	4930	91	3990	91	3710	91	3430	91	3160	106	114	15	91	4920	91	3990	91	3700	91	3420	91	3150	105	113		
20	91	4950	90	3970	90	3710	91	3480	92	3250	106	113	20	90	4890	90	3960	90	3670	90	3390	90	3140	105	113		
25	92	5220	91	4180	92	3920	93	3680	93	3440	106	113	25	91	5070	90	4050	91	3800	91	3560	92	3320	105	112		
30	94	5540	93	4430	94	4170	94	3910	95	3660	107	113	30	93	5370	92	4290	92	4030	93	3780	93	3530	106	112		
35	97	5970	95	4770	96	4480	96	4210	97	3940	107	113	35	95	5780	94	4620	94	4340	95	4070	95	3810	106	112		
40	99	6510	98	5200	98	4890	99	4600	99	4310	108	113	40	98	6300	96	5020	97	4730	97	4440	97	4150	107	112		
42	101	6770	99	5400	99	5080	100	4770	100	4470	108	113	42	99	6540	97	5210	98	4910	98	4610	98	4310	107	112		
													43	100	6670	98	5310	98	5000	99	4690	99	4400	107	112		

WEIGHT = 11600 LBS							VENR = 133 KIAS							WEIGHT = 11400 LBS							VENR = 132 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2										
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST		V1 DIST	V1 DIST								
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS										
-25	92	4410	92	3540	92	3270	92	3010	92	2760	104	112	-25	92	4410	92	3540	92	3270	92	3010	92	2760	102	111		
-20	92	4480	92	3600	92	3330	92	3070	92	2820	104	112	-20	92	4480	92	3600	92	3330	92	3070	92	2820	102	111		
-15	92	4550	92	3670	92	3390	92	3130	92	2870	104	112	-15	92	4550	92	3660	92	3390	92	3130	92	2870	102	111		
-10	92	4620	92	3730	92	3450	92	3190	92	2930	103	112	-10	92	4620	92	3730	92	3450	92	3190	92	2930	102	111		
-5	92	4700	92	3800	92	3520	92	3250	92	2990	103	112	-5	92	4690	92	3790	92	3510	92	3240	92	2990	102	111		
0	92	4770	92	3860	92	3580	92	3310	92	3040	103	112	0	92	4760	92	3860	92	3580	92	3300	92	3040	102	111		
5	92	4840	92	3920	92	3640	92	3370	92	3100	103	112	5	92	4830	92	3920	92	3640	92	3360	92	3100	102	111		
10	92	4910	92	3990	92	3700	92	3430	92	3160	103	112	10	92	4900	92	3990	92	3700	92	3420	92	3160	102	111		
15	91	4910	91	3980	91	3700	91	3420	91	3150	104	112	15	92	4900	92	3980	92	3690	92	3420	92	3150	103	111		
20	90	4880	90	3950	90	3660	90	3390	90	3120	104	112	20	90	4870	90	3950	90	3660	90	3380	90	3120	103	111		
25	89	4910	89	3920	89	3680	90	3440	90	3210	104	112	25	88	4810	88	3890	88	3600	88	3330	89	3110	103	111		
30	91	5210	90	4150	91	3900	91	3650	92	3420	105	111	30	90	5040	89	4020	89	3770	90	3530	91	3300	104	111		
35	94	5600	92	4470	93	4200	93	3930	94	3680	105	111	35	92	5430	91	4320	92	4060	92	3810	93	3560	104	110		
40	96	6090	95	4850	95	4560	96	4280	96	4000	106	111	40	95	5880	93	4680	94	4400	94	4130	95	3860	105	110		
43	98	6440	96	5130	97	4820	97	4530	98	4240	106	111	44	97	6340	95	5040	96	4740	96	4450	97	4160	105	110		
44	99	6570	97	5230	97	4920	98	4620	98	4320	106	111	45	98	6460	96	5140	96	4830	97	4530	97	4240	106	110		
													47	99	6700	97	5330	97	5010	98	4700	98	4400	106	110		

Figure 7-6 (Sheet 5)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: WET RUNWAY
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

ANTI-ICE - OFF
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 11000 LBS							WEIGHT = 10500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-25	93 4400	93 3540	93 3270	93 3010	93 2760	100 109	-25	93 4400	93 3540	93 3270	93 3020	93 2770	98 107
-20	93 4470	93 3600	93 3330	93 3070	93 2820	100 109	-20	93 4470	93 3600	93 3330	93 3070	93 2820	98 107
-15	93 4540	93 3660	93 3390	93 3130	93 2870	100 109	-15	93 4540	93 3660	93 3390	93 3130	93 2880	98 107
-10	93 4610	93 3730	93 3450	93 3190	93 2930	100 109	-10	93 4610	93 3730	93 3450	93 3190	93 2940	98 107
-5	93 4680	93 3790	93 3510	93 3240	93 2990	100 109	-5	93 4680	93 3790	93 3510	93 3250	93 2990	97 107
0	93 4750	93 3850	93 3570	93 3300	93 3040	100 109	0	93 4750	93 3850	93 3580	93 3310	93 3050	97 107
5	93 4820	93 3920	93 3640	93 3360	93 3100	100 109	5	93 4820	93 3920	93 3640	93 3370	93 3110	97 107
10	93 4890	93 3980	93 3700	93 3420	93 3160	100 109	10	93 4890	93 3980	93 3700	93 3430	93 3160	97 107
15	92 4880	92 3970	92 3690	92 3410	92 3150	100 109	15	92 4880	92 3970	92 3690	92 3420	92 3150	98 107
20	90 4850	90 3940	90 3650	90 3380	90 3110	101 109	20	90 4840	90 3930	90 3650	90 3380	90 3110	98 107
25	88 4790	88 3870	88 3590	88 3320	88 3050	101 109	25	88 4770	88 3860	88 3580	88 3310	88 3050	98 107
30	87 4730	86 3800	86 3530	87 3300	88 3070	102 109	30	87 4690	87 3790	87 3510	87 3240	87 2980	99 107
35	89 5080	88 4040	89 3790	89 3540	90 3310	102 109	35	85 4670	84 3700	85 3460	86 3240	86 3020	99 106
40	92 5500	90 4370	91 4100	91 3840	92 3590	103 108	40	88 5050	87 4000	87 3750	88 3510	88 3270	100 106
45	95 6010	93 4770	93 4480	94 4200	94 3920	103 108	45	90 5490	89 4340	90 4070	90 3810	90 3560	101 106
47	96 6230	94 4940	94 4640	95 4350	95 4070	104 108	50	93 6000	92 4740	92 4450	92 4170	93 3890	101 106
50	98 6600	96 5230	96 4910	96 4610	97 4310	104 108							

WEIGHT = 10000 LBS							WEIGHT = 9500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-25	93 4400	93 3550	93 3280	93 3030	93 2780	96 106	-25	93 4410	93 3560	93 3300	93 3050	93 2800	95 106
-20	93 4470	93 3610	93 3340	93 3080	93 2840	96 106	-20	93 4480	93 3620	93 3360	93 3100	93 2850	95 106
-15	93 4540	93 3670	93 3400	93 3140	93 2890	96 106	-15	93 4550	93 3690	93 3420	93 3160	93 2910	95 106
-10	93 4610	93 3730	93 3460	93 3200	93 2950	96 106	-10	93 4620	93 3750	93 3480	93 3220	93 2970	95 106
-5	93 4680	93 3800	93 3520	93 3260	93 3000	96 106	-5	93 4690	93 3810	93 3540	93 3280	93 3020	95 106
0	93 4750	93 3860	93 3580	93 3320	93 3060	96 106	0	93 4760	93 3880	93 3600	93 3340	93 3080	95 106
5	93 4820	93 3930	93 3650	93 3380	93 3120	96 106	5	93 4830	93 3940	93 3660	93 3400	93 3140	95 106
10	93 4890	93 3990	93 3710	93 3440	93 3180	96 106	10	93 4900	93 4000	93 3720	93 3450	93 3190	95 106
15	92 4880	92 3970	92 3690	92 3420	92 3160	95 105	15	92 4880	92 3990	92 3710	92 3440	92 3180	95 105
20	90 4830	90 3930	90 3650	90 3380	90 3120	95 105	20	91 4840	91 3940	91 3660	91 3390	91 3130	94 104
25	89 4760	89 3860	89 3580	89 3310	89 3050	96 105	25	89 4750	89 3860	89 3580	89 3320	89 3060	93 102
30	87 4670	87 3780	87 3500	87 3230	87 2970	96 104	30	87 4660	87 3780	87 3500	87 3230	87 2980	93 102
35	84 4560	84 3670	84 3390	84 3120	84 2870	97 104	35	84 4540	84 3660	84 3380	84 3120	84 2870	94 102
40	84 4620	83 3640	83 3410	84 3180	85 2960	97 104	40	82 4400	82 3530	82 3260	82 3000	82 2750	94 102
45	86 5010	85 3960	86 3710	86 3460	87 3230	98 104	45	82 4560	81 3590	82 3350	82 3130	83 2910	95 101
50	89 5440	88 4290	88 4020	88 3760	89 3500	98 103	50	85 4940	84 3890	84 3640	85 3400	85 3160	95 101

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-25	93 4440	93 3590	93 3330	93 3070	93 2830	94 106	-25	93 4470	93 3630	93 3360	93 3110	93 2860	93 106
-20	93 4500	93 3650	93 3380	93 3130	93 2880	94 106	-20	93 4540	93 3690	93 3420	93 3170	93 2920	93 106
-15	93 4570	93 3710	93 3450	93 3190	93 2940	94 106	-15	93 4610	93 3750	93 3480	93 3220	93 2980	93 106
-10	93 4640	93 3780	93 3510	93 3250	93 2990	94 106	-10	93 4680	93 3810	93 3540	93 3280	93 3030	94 106
-5	93 4710	93 3840	93 3570	93 3300	93 3050	94 106	-5	93 4750	93 3880	93 3600	93 3340	93 3090	94 106
0	93 4780	93 3900	93 3630	93 3360	93 3110	94 106	0	93 4820	93 3940	93 3670	93 3400	93 3150	94 106
5	93 4850	93 3970	93 3690	93 3420	93 3170	94 106	5	93 4890	93 4000	93 3730	93 3460	93 3200	94 106
10	93 4920	93 4030	93 3750	93 3480	93 3220	95 106	10	93 4960	93 4070	93 3790	93 3520	93 3260	94 106
15	92 4900	92 4010	92 3730	92 3460	92 3200	94 105	15	92 4940	92 4040	92 3770	92 3500	92 3240	93 105
20	91 4850	91 3960	91 3680	91 3410	91 3150	93 104	20	91 4870	91 3990	91 3710	91 3440	91 3180	92 104
25	89 4760	89 3870	89 3600	89 3330	89 3070	92 102	25	89 4780	89 3890	89 3620	89 3350	89 3100	91 102
30	87 4660	87 3780	87 3510	87 3240	87 2990	90 100	30	87 4670	87 3800	87 3520	87 3260	87 3010	89 100
35	84 4530	84 3650	84 3380	84 3120	84 2870	91 99	35	85 4530	85 3660	85 3390	85 3130	85 2880	88 97
40	82 4390	82 3520	82 3250	82 2990	82 2740	91 99	40	82 4380	82 3520	82 3250	82 2990	82 2750	88 96
45	79 4250	79 3390	79 3120	79 2860	79 2620	92 99	45	79 4230	79 3380	79 3110	79 2860	79 2620	89 96
50	80 4470	79 3500	80 3270	81 3040	81 2830	92 99	50	77 4100	77 3250	77 2990	77 2740	77 2520	89 96

Figure 7-6 (Sheet 6)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS											
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT											
			-30	92 4500	92 3610	92 3340	92 3070	93 2840					107 115	-30	92 4500	92 3610	92 3330	92 3070	
-25	92 4570	92 3680	92 3400	92 3130	93 2890	107 115	-25	92 4570	92 3670	92 3390	92 3130	92 2870	107 114						
-20	92 4650	92 3740	92 3460	92 3190	93 2950	107 115	-20	92 4640	92 3740	92 3460	92 3190	92 2930	107 114						
-15	92 4720	92 3810	92 3520	92 3250	92 3010	107 115	-15	92 4710	92 3800	92 3520	92 3250	92 2990	107 114						
-10	92 4790	92 3870	92 3590	92 3310	92 3060	107 115	-10	92 4790	92 3870	92 3580	92 3310	92 3040	107 114						
-5	92 4870	92 3940	92 3650	92 3370	92 3120	107 115	-5	92 4860	92 3940	92 3650	92 3370	92 3100	107 114						
0	92 4940	92 4000	92 3710	92 3430	92 3180	107 115	0	92 4930	92 4000	92 3710	92 3430	92 3160	107 114						
5	92 4980	92 4030	92 3740	92 3500	93 3270	108 115	5	92 4960	92 4030	92 3740	92 3450	92 3180	107 114						
10	92 5140	92 4120	92 3870	93 3630	93 3390	108 115	10	91 5010	91 4030	91 3770	92 3530	92 3300	107 114						
15	94 5350	93 4290	93 4030	94 3780	94 3540	108 115	15	92 5210	91 4170	92 3920	93 3680	93 3440	107 114						
20	95 5610	94 4510	94 4240	95 3980	96 3730	108 115	20	94 5470	93 4380	93 4120	94 3870	94 3620	107 114						
25	96 5920	95 4750	96 4470	96 4200	97 3930	109 115	25	95 5760	94 4630	95 4350	95 4080	96 3820	108 114						
30	98 6280	97 5040	97 4750	98 4460	98 4180	109 115	30	97 6110	96 4900	96 4620	97 4340	97 4060	108 114						
35	101 6880	99 5490	100 5180	100 4870	101 4570	110 115	35	100 6650	98 5330	99 5020	99 4720	99 4430	109 114						
36	102 6970	100 5590	100 5270	101 4960	101 4650	110 115	36	100 6780	99 5430	99 5120	99 4810	100 4510	109 114						
							37	101 6900	99 5530	100 5210	100 4900	100 4600	109 114						

WEIGHT = 12000 LBS								WEIGHT = 11800 LBS										
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT										
			-30	92 4490	92 3600	92 3330	92 3070	92 2810				106 114	-30	92 4480	92 3600	92 3330	92 3060	
-25	92 4560	92 3670	92 3390	92 3120	92 2870	106 114	-25	92 4550	92 3660	92 3390	92 3120	92 2870	105 113					
-20	92 4630	92 3730	92 3450	92 3180	92 2930	106 114	-20	92 4620	92 3730	92 3450	92 3180	92 2920	105 113					
-15	92 4700	92 3800	92 3520	92 3240	92 2980	106 114	-15	92 4700	92 3790	92 3510	92 3240	92 2980	105 113					
-10	92 4780	92 3860	92 3580	92 3310	92 3040	106 114	-10	92 4770	92 3860	92 3580	92 3300	92 3040	105 113					
-5	92 4850	92 3930	92 3640	92 3370	92 3100	106 114	-5	92 4840	92 3920	92 3640	92 3360	92 3100	105 113					
0	92 4920	92 3990	92 3700	92 3420	92 3160	106 114	0	92 4910	92 3990	92 3700	92 3420	92 3150	105 113					
5	92 4950	92 4020	92 3730	92 3450	92 3180	106 114	5	92 4940	92 4010	92 3730	92 3450	92 3180	105 113					
10	91 4960	91 4030	91 3740	91 3460	91 3190	106 113	10	91 4950	91 4020	91 3730	91 3450	91 3180	105 113					
15	91 5060	90 4050	91 3800	91 3560	92 3330	106 113	15	90 4940	90 4010	90 3720	90 3450	91 3120	105 113					
20	92 5310	91 4250	92 3990	92 3750	93 3500	106 113	20	91 5150	90 4120	91 3870	91 3620	92 3390	105 112					
25	94 5590	93 4480	93 4220	94 3960	94 3700	107 113	25	92 5420	91 4340	92 4080	92 3830	93 3580	106 112					
30	96 5930	94 4750	95 4470	95 4200	96 3930	107 113	30	94 5740	93 4600	93 4320	94 4060	94 3800	106 112					
35	98 6440	97 5160	97 4850	98 4560	98 4280	108 113	35	97 6230	95 4980	96 4690	96 4400	97 4120	107 112					
37	99 6680	98 5340	98 5030	99 4730	99 4440	108 113	38	99 6570	97 5260	97 4950	98 4650	98 4360	107 112					
38	100 6800	98 5440	99 5130	99 4820	99 4520	108 113	40	100 6830	98 5460	98 5140	99 4830	99 4530	107 112					

WEIGHT = 11600 LBS								WEIGHT = 11400 LBS										
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT										
			-30	92 4480	92 3600	92 3320	92 3060	92 2810				103 112	-30	93 4470	93 3590	93 3320	93 3060	
-25	92 4550	92 3660	92 3380	92 3120	92 2870	104 112	-25	92 4540	92 3660	92 3380	92 3120	92 2870	102 111					
-20	92 4620	92 3720	92 3450	92 3180	92 2920	103 112	-20	92 4610	92 3720	92 3440	92 3180	92 2920	102 111					
-15	92 4690	92 3790	92 3510	92 3240	92 2980	103 112	-15	92 4680	92 3790	92 3510	92 3240	92 2980	102 111					
-10	92 4760	92 3850	92 3570	92 3300	92 3040	103 112	-10	92 4760	92 3850	92 3570	92 3300	92 3040	102 111					
-5	92 4840	92 3920	92 3640	92 3360	92 3100	103 112	-5	92 4830	92 3920	92 3630	92 3360	92 3100	102 111					
0	92 4900	92 3980	92 3690	92 3420	92 3150	103 112	0	92 4900	92 3980	92 3690	92 3420	92 3150	102 111					
5	92 4940	92 4010	92 3720	92 3440	92 3180	104 112	5	92 4930	92 4010	92 3720	92 3440	92 3170	103 111					
10	91 4940	91 4020	91 3730	91 3450	91 3180	104 112	10	91 4940	91 4010	91 3720	91 3440	91 3180	103 111					
15	90 4930	90 4000	90 3710	90 3430	90 3160	104 112	15	90 4920	90 3990	90 3710	90 3430	90 3160	103 111					
20	89 4990	89 3990	89 3740	90 3510	90 3280	104 112	20	88 4880	88 3950	88 3660	88 3390	89 3170	103 111					
25	91 5260	90 4200	91 3950	91 3700	92 3460	105 111	25	89 5090	89 4070	89 3820	90 3580	90 3340	104 111					
30	93 5570	92 4460	92 4190	93 3930	93 3680	105 111	30	91 5390	90 4310	91 4050	91 3800	92 3550	104 110					
35	95 6020	94 4820	94 4530	95 4250	95 3980	106 111	35	94 5830	92 4660	93 4380	93 4110	94 3840	105 110					
40	98 6600	96 5270	97 4960	97 4660	98 4360	106 111	40	97 6370	95 5080	95 4780	96 4490	96 4200	105 110					
41	99 6730	97 5370	97 5050	98 4750	98 4450	106 111	41	97 6490	95 5180	96 4870	96 4570	97 4280	105 110					
							44	99 6870	97 5480	97 5160	98 4840	98 4540	106 110					

Figure 7-6 (Sheet 7)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: WET RUNWAY ANTI-ICE - OFF
 RUNWAY GRADIENT - ZERO SPEED BRAKES - RETRACT
 LANDING GEAR - DOWN INOPERATIVE ENGINE - WINDMILLING AFTER V1
 THRUST ATTENUATORS - AUTO OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

HEIGHT = 11000 LBS VENR = 130 KIAS								HEIGHT = 10500 LBS VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-30	93 4460	93 3590	93 3320	93 3060	93 2810	100 109	-30	93 4460	93 3590	93 3330	93 3070	93 2820	98 107		
-25	93 4530	93 3650	93 3380	93 3120	93 2870	100 109	-25	93 4530	93 3660	93 3380	93 3120	93 2870	98 107		
-20	93 4600	93 3720	93 3440	93 3180	93 2920	100 109	-20	93 4600	93 3720	93 3450	93 3180	93 2930	98 107		
-15	93 4670	93 3780	93 3510	93 3240	93 2980	100 109	-15	93 4670	93 3780	93 3510	93 3240	93 2990	97 107		
-10	92 4750	92 3850	92 3570	92 3300	92 3040	100 109	-10	93 4740	93 3850	93 3570	93 3300	93 3040	97 107		
-5	93 4820	93 3910	93 3630	93 3360	93 3100	100 109	-5	93 4810	93 3910	93 3630	93 3360	93 3100	97 107		
0	92 4890	92 3970	92 3690	92 3420	92 3150	100 109	0	93 4880	93 3970	93 3690	93 3420	93 3160	97 107		
5	92 4920	92 4000	92 3710	92 3440	92 3170	100 109	5	92 4910	92 4000	92 3710	92 3440	92 3180	98 107		
10	91 4920	91 4000	91 3720	91 3440	91 3170	101 109	10	91 4910	91 4000	91 3710	91 3440	91 3180	98 107		
15	90 4910	90 3980	90 3700	90 3420	90 3150	101 109	15	90 4890	90 3980	90 3690	90 3420	90 3150	98 107		
20	88 4860	88 3940	88 3650	88 3380	88 3110	101 109	20	88 4840	88 3930	88 3650	88 3370	88 3110	98 107		
25	87 4810	87 3890	87 3600	87 3340	87 3120	102 109	25	87 4790	87 3870	87 3590	87 3320	87 3050	99 107		
30	88 5050	87 4030	88 3780	88 3540	89 3300	102 109	30	85 4720	85 3810	85 3520	85 3250	85 3020	99 106		
35	91 5460	90 4350	90 4090	91 3830	91 3570	102 108	35	87 5010	86 3980	86 3730	87 3490	87 3260	100 106		
40	93 5930	92 4720	92 4440	93 4160	93 3890	103 108	40	89 5430	88 4310	89 4050	89 3790	90 3540	100 106		
44	96 6390	94 5080	94 4780	95 4480	95 4200	104 108	45	92 5930	91 4700	91 4420	91 4140	92 3870	101 106		
45	96 6510	95 5180	95 4870	95 4570	96 4280	104 108	48	94 6270	92 4970	93 4670	93 4370	93 4090	101 106		
48	98 6900	96 5480	96 5150	97 4840	97 4530	104 108									

HEIGHT = 10000 LBS VENR = 125 KIAS								HEIGHT = 9500 LBS VENR = 122 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-30	93 4460	93 3600	93 3340	93 3080	93 2830	96 106	-30	93 4470	93 3620	93 3350	93 3100	93 2850	95 106		
-25	93 4530	93 3660	93 3390	93 3130	93 2890	96 106	-25	93 4540	93 3680	93 3410	93 3150	93 2900	95 106		
-20	93 4600	93 3730	93 3460	93 3190	93 2940	96 106	-20	93 4610	93 3740	93 3470	93 3210	93 2960	95 106		
-15	93 4670	93 3790	93 3520	93 3250	93 3000	96 106	-15	93 4680	93 3810	93 3530	93 3270	93 3020	95 106		
-10	93 4740	93 3860	93 3580	93 3310	93 3060	96 106	-10	93 4750	93 3870	93 3600	93 3330	93 3070	95 106		
-5	93 4820	93 3920	93 3640	93 3370	93 3120	96 106	-5	93 4830	93 3940	93 3660	93 3390	93 3130	95 106		
0	93 4880	93 3980	93 3700	93 3430	93 3170	96 106	0	93 4890	93 3990	93 3720	93 3450	93 3190	95 106		
5	92 4910	92 4000	92 3720	92 3450	92 3190	96 106	5	92 4920	92 4020	92 3740	92 3460	92 3200	95 106		
10	91 4910	91 4000	91 3720	91 3450	91 3180	95 105	10	91 4910	91 4010	91 3730	91 3460	91 3200	94 105		
15	90 4880	90 3980	90 3690	90 3420	90 3160	95 105	15	90 4880	90 3980	90 3700	90 3430	90 3170	94 104		
20	89 4830	89 3920	89 3640	89 3370	89 3110	96 105	20	89 4830	89 3930	89 3650	89 3380	89 3120	93 102		
25	87 4770	87 3860	87 3580	87 3310	87 3050	96 104	25	87 4760	87 3860	87 3580	87 3310	87 3050	93 102		
30	85 4690	85 3790	85 3510	85 3240	85 2980	96 104	30	85 4680	85 3780	85 3510	85 3240	85 2980	93 102		
35	83 4580	83 3670	83 3400	83 3180	84 2960	97 104	35	83 4540	83 3660	83 3380	83 3110	83 2860	94 102		
40	85 4970	84 3930	85 3680	85 3440	86 3210	98 104	40	81 4520	80 3570	81 3340	82 3110	82 2900	95 101		
45	88 5390	87 4270	87 4000	88 3740	88 3490	98 103	45	84 4900	83 3870	83 3620	84 3380	84 3150	95 101		
48	90 5680	88 4490	89 4210	89 3940	89 3680	98 103	48	85 5150	84 4060	85 3800	85 3550	86 3310	96 101		

HEIGHT = 9000 LBS VENR = 119 KIAS								HEIGHT = 8500 LBS VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-30	93 4500	93 3640	93 3380	93 3120	93 2880	94 106	-30	93 4530	93 3680	93 3420	93 3160	93 2910	94 106		
-25	93 4570	93 3710	93 3440	93 3180	93 2930	94 106	-25	93 4600	93 3740	93 3470	93 3220	93 2970	94 106		
-20	93 4640	93 3770	93 3500	93 3240	93 2990	94 106	-20	93 4670	93 3810	93 3540	93 3280	93 3020	94 106		
-15	93 4710	93 3830	93 3560	93 3300	93 3040	94 106	-15	93 4740	93 3870	93 3600	93 3340	93 3080	94 106		
-10	93 4780	93 3900	93 3620	93 3360	93 3100	94 106	-10	93 4810	93 3930	93 3660	93 3400	93 3140	94 106		
-5	93 4850	93 3960	93 3690	93 3420	93 3160	94 106	-5	93 4890	93 4000	93 3720	93 3460	93 3200	94 106		
0	93 4910	93 4020	93 3740	93 3470	93 3210	94 106	0	93 4950	93 4060	93 3780	93 3510	93 3250	94 106		
5	92 4940	92 4040	92 3760	92 3490	92 3230	94 106	5	92 4970	92 4070	92 3800	92 3530	92 3260	93 105		
10	91 4930	91 4030	91 3750	91 3480	91 3220	94 105	10	92 4960	92 4060	92 3780	92 3510	92 3250	93 104		
15	90 4890	90 4000	90 3720	90 3450	90 3190	93 103	15	90 4920	90 4030	90 3750	90 3480	90 3220	92 103		
20	89 4830	89 3940	89 3660	89 3390	89 3130	92 102	20	89 4850	89 3960	89 3680	89 3410	89 3160	91 102		
25	87 4760	87 3870	87 3590	87 3320	87 3070	91 100	25	87 4770	87 3880	87 3610	87 3340	87 3080	90 100		
30	85 4670	85 3780	85 3510	85 3240	85 2990	90 99	30	85 4670	85 3790	85 3520	85 3250	85 3000	88 98		
35	83 4530	83 3650	83 3370	83 3110	83 2860	91 99	35	83 4520	83 3650	83 3380	83 3120	83 2870	88 97		
40	80 4380	80 3510	80 3240	80 2980	80 2730	92 99	40	80 4370	80 3500	80 3240	80 2980	80 2730	88 96		
45	79 4430	79 3480	79 3260	80 3030	80 2820	92 99	45	78 4230	78 3370	78 3110	78 2850	78 2610	88 96		
48	81 4660	80 3660	81 3420	81 3190	82 2960	93 99	48	76 4190	76 3300	76 3050	77 2840	77 2640	88 96		

Figure 7-6 (Sheet 8)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 12375 LBS								VENR = 138 KIAS								HEIGHT = 12200 LBS								VENR = 137 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2													
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-30	92	4640	92	3730	92	3450	92	3180	92	2940	107	115	-30	92	4630	92	3730	92	3450	92	3180	92	2920	107	114						
-25	92	4710	92	3800	92	3520	92	3240	92	3000	107	115	-25	92	4700	92	3790	92	3510	92	3240	92	2980	107	114						
-20	92	4790	92	3870	92	3580	92	3310	92	3060	107	115	-20	92	4780	92	3860	92	3580	92	3300	92	3040	107	114						
-15	92	4860	92	3930	92	3650	92	3370	92	3120	107	115	-15	92	4850	92	3930	92	3640	92	3360	92	3100	107	114						
-10	92	4940	92	4000	92	3710	92	3430	92	3180	107	115	-10	92	4930	92	4000	92	3710	92	3430	92	3160	107	114						
-5	92	5010	92	4070	92	3780	92	3500	92	3230	107	115	-5	92	5010	92	4070	92	3770	92	3490	92	3220	107	114						
0	92	5080	92	4130	92	3830	92	3550	92	3310	107	115	0	92	5070	92	4120	92	3830	92	3540	92	3270	107	114						
5	92	5200	91	4170	92	3920	93	3680	93	3440	108	115	5	91	5060	91	4120	91	3820	91	3580	92	3350	107	114						
10	94	5460	93	4380	93	4120	94	3870	94	3630	108	115	10	92	5320	92	4270	92	4010	93	3770	93	3520	107	114						
15	95	5730	94	4610	95	4340	95	4070	96	3820	108	115	15	94	5580	93	4480	93	4220	94	3960	94	3710	107	114						
20	96	6010	95	4840	96	4560	96	4280	97	4010	109	115	20	95	5860	94	4710	95	4440	95	4160	96	3900	108	114						
25	98	6320	97	5090	97	4790	97	4510	98	4230	109	115	25	97	6160	95	4950	96	4660	96	4380	97	4110	108	114						
30	100	6790	98	5460	99	5150	99	4840	100	4550	109	115	30	99	6600	97	5300	98	5000	98	4700	98	4410	109	114						
32	101	7030	100	5650	100	5330	100	5020	101	4710	110	115	33	101	6960	99	5590	99	5270	100	4960	100	4650	109	114						
33	102	7160	100	5760	100	5430	101	5110	101	4800	110	115	34	101	7090	99	5690	100	5370	100	5050	100	4740	109	114						

HEIGHT = 12000 LBS								VENR = 136 KIAS								HEIGHT = 11800 LBS								VENR = 135 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2													
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-30	92	4620	92	3720	92	3440	92	3180	92	2920	106	114	-30	92	4610	92	3720	92	3440	92	3170	92	2920	105	113						
-25	92	4690	92	3790	92	3510	92	3240	92	2980	106	114	-25	92	4690	92	3780	92	3500	92	3230	92	2970	105	113						
-20	92	4770	92	3860	92	3570	92	3300	92	3040	106	114	-20	92	4760	92	3850	92	3570	92	3300	92	3030	105	113						
-15	92	4840	92	3920	92	3640	92	3360	92	3100	106	114	-15	92	4840	92	3920	92	3630	92	3360	92	3090	105	113						
-10	92	4920	92	3990	92	3700	92	3420	92	3160	106	114	-10	92	4910	92	3990	92	3700	92	3420	92	3150	105	113						
-5	92	5000	92	4060	92	3770	92	3490	92	3220	106	114	-5	92	4990	92	4060	92	3770	92	3490	92	3220	104	113						
0	92	5060	92	4120	92	3820	92	3540	92	3270	106	114	0	92	5050	92	4110	92	3820	92	3540	92	3260	105	113						
5	91	5050	91	4110	91	3810	91	3530	91	3260	106	114	5	91	5040	91	4100	91	3810	91	3530	91	3250	105	113						
10	91	5160	90	4140	91	3890	91	3650	92	3410	106	113	10	89	5010	89	4060	89	3770	90	3530	91	3300	105	113						
15	92	5420	92	4350	92	4090	93	3840	93	3590	106	113	15	91	5250	90	4210	91	3960	91	3710	92	3470	105	112						
20	94	5690	93	4570	93	4300	94	4030	94	3780	107	113	20	92	5510	91	4420	92	4160	92	3900	93	3650	106	112						
25	95	5970	94	4800	94	4510	95	4240	95	3970	107	113	25	94	5790	93	4650	93	4370	94	4100	94	3840	106	112						
30	97	6390	96	5130	96	4830	97	4540	97	4260	107	113	30	96	6180	94	4960	95	4670	95	4390	96	4110	106	112						
34	100	6850	98	5500	98	5180	99	4870	99	4580	108	113	35	99	6750	97	5410	97	5100	98	4790	98	4500	107	112						
35	100	6980	98	5600	99	5280	99	4970	99	4660	108	113	37	100	7010	98	5610	98	5290	99	4970	99	4670	107	112						

HEIGHT = 11600 LBS								VENR = 133 KIAS								HEIGHT = 11400 LBS								VENR = 132 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2													
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-30	92	4610	92	3710	92	3440	92	3170	92	2910	103	112	-30	92	4600	92	3710	92	3440	92	3170	92	2910	102	111						
-25	92	4680	92	3780	92	3500	92	3230	92	2970	103	112	-25	92	4670	92	3780	92	3500	92	3230	92	2970	102	111						
-20	92	4750	92	3850	92	3570	92	3290	92	3030	103	112	-20	92	4750	92	3840	92	3560	92	3290	92	3030	102	111						
-15	92	4830	92	3910	92	3630	92	3360	92	3090	103	112	-15	92	4820	92	3910	92	3630	92	3350	92	3090	102	111						
-10	92	4900	92	3980	92	3700	92	3420	92	3150	103	112	-10	92	4900	92	3980	92	3690	92	3420	92	3150	102	111						
-5	92	4980	92	4050	92	3760	92	3480	92	3210	103	112	-5	92	4970	92	4050	92	3760	92	3480	92	3210	102	111						
0	92	5040	92	4100	92	3810	92	3530	92	3260	103	112	0	92	5030	92	4100	92	3810	92	3530	92	3260	102	111						
5	91	5030	91	4100	91	3800	91	3520	91	3250	104	112	5	91	5030	91	4090	91	3800	91	3520	91	3250	103	111						
10	90	4990	90	4050	90	3760	90	3480	90	3210	104	112	10	90	4980	90	4050	90	3760	90	3480	90	3210	103	111						
15	89	5090	89	4080	89	3830	90	3590	90	3360	104	112	15	88	4940	88	4010	88	3720	88	3470	89	3240	103	111						
20	91	5340	90	4280	91	4020	91	3770	92	3530	105	111	20	89	5180	89	4140	89	3890	90	3650	90	3410	104	111						
25	92	5610	91	4500	92	4230	92	3970	93	3720	105	111	25	91	5430	90	4350	90	4090	91	3840	91	3590	104	110						
30	94	5990	93	4800	93	4520	94	4240	94	3970	105	111	30	93	5800	92	4640	92	4370	93	4100	93	3840	104	110						
35	97	6520	95	5220	96	4920	96	4620	97	4330	106	111	35	95	6300	94	5040	94	4740	95	4450	95	4170	105	110						
37	98	6770	96	5420	97	5100	97	4800	98	4500	106	111	38	97	6660	96	5320	96	5010	96	4710	97	4420	105	110						
38	99	6900	97	5520	97	5200	98	4890	98	4590	107	111	40	99	6920	97	5530	97	5210	97	4900	98	4590	106	110						
													41	99	7060	97	5640	97	5310	98	4990	98	4680	106	110						

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: WET RUNWAY
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

ANTI-ICE - OFF
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST
SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS										WEIGHT = 10500 LBS									
		VENR = 130 KIAS										VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT											
-30	93 4590	93 3710	93 3430	93 3170	93 2920	100 109	-30	93 4590	93 3710	93 3440	93 3170	93 2920	98 107						
-25	93 4660	93 3770	93 3500	93 3230	93 2970	100 109	-25	93 4660	93 3770	93 3500	93 3230	93 2980	98 107						
-20	92 4740	92 3840	92 3560	92 3290	92 3030	100 109	-20	93 4730	93 3840	93 3560	93 3300	93 3040	97 107						
-15	92 4810	92 3910	92 3620	92 3350	92 3090	100 109	-15	93 4810	93 3910	93 3630	93 3360	93 3100	97 107						
-10	92 4890	92 3970	92 3690	92 3420	92 3150	100 109	-10	93 4880	93 3970	93 3690	93 3420	93 3160	97 107						
-5	92 4960	92 4040	92 3760	92 3480	92 3210	100 109	-5	93 4960	93 4040	93 3760	93 3480	93 3220	97 107						
0	92 5020	92 4100	92 3810	92 3530	92 3260	100 109	0	92 5010	92 4090	92 3810	92 3530	92 3260	98 107						
5	91 5010	91 4080	91 3790	91 3520	91 3250	101 109	5	91 5000	91 4080	91 3790	91 3520	91 3250	98 107						
10	90 4960	90 4040	90 3750	90 3470	90 3200	101 109	10	90 4950	90 4030	90 3740	90 3470	90 3200	98 107						
15	88 4920	88 3990	88 3710	88 3430	88 3160	101 109	15	88 4900	88 3980	88 3700	88 3420	88 3150	98 107						
20	87 4880	87 3950	87 3670	87 3400	87 3180	102 109	20	87 4860	87 3940	87 3650	87 3380	87 3110	99 107						
25	88 5090	87 4070	87 3820	88 3580	89 3340	102 109	25	85 4820	85 3900	85 3610	85 3340	85 3070	99 106						
30	90 5430	89 4340	89 4080	90 3820	90 3580	102 109	30	86 4980	85 3970	86 3730	86 3490	87 3260	100 106						
35	92 5880	91 4700	91 4410	92 4140	92 3880	103 108	35	88 5390	87 4300	88 4030	88 3780	89 3530	100 106						
40	95 6440	94 5140	94 4830	94 4540	95 4250	104 108	40	91 5870	90 4670	90 4390	91 4110	91 3850	101 106						
41	96 6560	94 5230	94 4920	95 4620	95 4330	104 108	44	93 6310	92 5020	92 4710	92 4420	93 4140	101 106						
44	98 6940	96 5530	96 5200	96 4890	97 4580	104 108	45	94 6430	92 5110	93 4800	93 4510	93 4220	101 106						
							46	95 6550	93 5210	93 4890	93 4590	94 4300	102 106						

WEIGHT = 10000 LBS										WEIGHT = 9500 LBS									
		VENR = 123 KIAS										VENR = 122 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT											
-30	93 4590	93 3720	93 3450	93 3190	93 2930	96 106	-30	93 4600	93 3730	93 3460	93 3200	93 2950	95 106						
-25	93 4660	93 3780	93 3510	93 3240	93 2990	96 106	-25	93 4670	93 3800	93 3530	93 3260	93 3010	95 106						
-20	93 4730	93 3850	93 3570	93 3310	93 3050	96 106	-20	93 4750	93 3860	93 3590	93 3320	93 3070	95 106						
-15	93 4810	93 3910	93 3640	93 3370	93 3110	96 106	-15	93 4820	93 3930	93 3650	93 3380	93 3130	95 106						
-10	93 4880	93 3980	93 3700	93 3430	93 3170	96 106	-10	93 4890	93 4000	93 3720	93 3450	93 3190	95 106						
-5	93 4960	93 4050	93 3770	93 3490	93 3230	96 106	-5	93 4970	93 4060	93 3780	93 3510	93 3250	95 106						
0	92 5010	92 4100	92 3810	92 3540	92 3270	96 106	0	93 5020	93 4110	93 3830	93 3560	93 3290	95 106						
5	91 5000	91 4080	91 3800	91 3520	91 3260	95 105	5	91 5000	91 4090	91 3810	91 3530	91 3270	95 105						
10	90 4940	90 4030	90 3740	90 3470	90 3200	95 105	10	90 4940	90 4030	90 3750	90 3480	90 3210	93 103						
15	88 4890	88 3980	88 3690	88 3420	88 3150	96 105	15	88 4880	88 3980	88 3700	88 3420	88 3160	93 102						
20	87 4840	87 3930	87 3650	87 3370	87 3110	96 104	20	87 4830	87 3930	87 3640	87 3370	87 3110	93 102						
25	85 4790	85 3880	85 3600	85 3330	85 3060	96 104	25	85 4780	85 3870	85 3590	85 3320	85 3060	93 102						
30	83 4700	83 3790	83 3510	83 3240	83 2980	97 104	30	83 4680	83 3780	83 3500	83 3230	83 2970	94 102						
35	84 4930	84 3910	84 3670	85 3430	85 3200	97 104	35	81 4550	81 3650	81 3380	81 3110	81 2890	94 101						
40	87 5350	86 4250	86 3980	87 3730	87 3480	98 104	40	83 4870	82 3850	82 3610	83 3370	84 3140	95 101						
45	90 5830	88 4620	89 4340	89 4060	89 3790	98 103	45	85 5280	84 4170	85 3910	85 3660	86 3410	96 101						
46	90 5940	89 4700	89 4420	89 4140	90 3870	99 103	46	86 5370	85 4240	85 3980	86 3720	86 3470	96 101						

WEIGHT = 9000 LBS										WEIGHT = 8500 LBS									
		VENR = 119 KIAS										VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT											
-30	93 4630	93 3760	93 3490	93 3230	93 2980	94 106	-30	93 4660	93 3800	93 3530	93 3270	93 3020	94 106						
-25	93 4700	93 3820	93 3550	93 3290	93 3040	94 106	-25	93 4730	93 3860	93 3590	93 3330	93 3070	94 106						
-20	93 4770	93 3890	93 3610	93 3350	93 3090	94 106	-20	93 4800	93 3930	93 3650	93 3390	93 3130	94 106						
-15	93 4840	93 3950	93 3680	93 3410	93 3150	94 106	-15	93 4880	93 3990	93 3720	93 3450	93 3190	94 106						
-10	93 4910	93 4020	93 3740	93 3470	93 3210	95 106	-10	93 4950	93 4060	93 3780	93 3510	93 3250	94 106						
-5	93 4990	93 4090	93 3810	93 3540	93 3270	95 106	-5	93 5030	93 4130	93 3850	93 3570	93 3310	94 106						
0	93 5040	93 4140	93 3860	93 3580	93 3320	94 106	0	93 5080	93 4180	93 3890	93 3620	93 3360	94 106						
5	92 5020	92 4110	92 3830	92 3560	92 3290	94 105	5	92 5050	92 4150	92 3860	92 3590	92 3330	93 105						
10	90 4950	90 4050	90 3770	90 3490	90 3230	93 103	10	90 4970	90 4070	90 3790	90 3520	90 3260	92 103						
15	88 4890	88 3990	88 3710	88 3440	88 3180	92 102	15	89 4900	89 4010	89 3730	89 3460	89 3200	91 101						
20	87 4830	87 3930	87 3650	87 3380	87 3120	91 100	20	87 4840	87 3950	87 3670	87 3400	87 3140	90 100						
25	86 4770	86 3880	86 3600	86 3330	86 3070	90 99	25	86 4770	86 3880	86 3610	86 3340	86 3080	89 98						
30	83 4660	83 3770	83 3500	83 3230	83 2970	91 99	30	84 4660	84 3780	84 3500	84 3240	84 2980	88 97						
35	81 4520	81 3640	81 3370	81 3100	81 2850	91 99	35	81 4510	81 3630	81 3360	81 3100	81 2850	88 96						
40	78 4410	78 3510	78 3250	79 3030	80 2820	92 99	40	78 4360	78 3490	78 3220	78 2970	78 2720	89 96						
45	81 4770	80 3760	81 3520	81 3280	82 3060	93 99	45	76 4290	76 3370	76 3140	77 2930	77 2720	89 96						
46	82 4850	81 3820	81 3580	82 3340	82 3110	93 98	46	77 4360	76 3420	77 3190	77 2970	78 2760	90 96						

Figure 7-6 (Sheet 10)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 138 KIAS							WEIGHT = 12200 LBS							VENR = 137 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST			V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST		V1 DIST
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS		
-35	92	4700	92	3790	92	3510	92	2980	107	115	-35	92	4690	92	3790	92	3500	92	3230	92	2970	107	114				
-30	92	4780	92	3860	92	3570	92	3040	107	115	-30	92	4770	92	3850	92	3570	92	3300	92	3030	107	114				
-25	92	4850	92	3930	92	3640	92	3110	107	115	-25	92	4850	92	3920	92	3640	92	3360	92	3090	107	114				
-20	92	4930	92	4000	92	3710	92	3170	107	115	-20	92	4920	92	3990	92	3700	92	3420	92	3160	107	114				
-15	92	5010	92	4070	92	3780	92	3230	107	115	-15	92	5000	92	4060	92	3770	92	3490	92	3220	107	114				
-10	92	5060	92	4110	92	3820	92	3250	108	115	-10	92	5050	92	4110	92	3810	92	3530	92	3250	107	114				
-5	92	5150	91	4150	92	3890	92	3260	108	115	-5	91	5100	91	4150	91	3850	91	3560	92	3320	107	114				
0	93	5320	92	4270	92	4020	93	3370	108	115	0	91	5180	91	4160	91	3920	92	3670	92	3440	107	114				
5	94	5570	93	4480	94	4220	94	3360	108	115	5	93	5430	92	4360	92	4100	93	3850	93	3610	107	114				
10	95	5850	94	4710	95	4440	95	4170	108	115	10	94	5700	93	4590	94	4320	94	4060	95	3800	107	114				
15	97	6150	95	4950	96	4670	96	4390	109	115	15	95	5990	94	4830	95	4540	95	4270	96	4000	108	114				
20	98	6430	97	5190	97	4890	97	4600	109	115	20	97	6260	95	5050	96	4750	96	4470	97	4200	108	114				
25	99	6730	98	5440	98	5130	99	4830	109	115	25	98	6560	96	5290	97	4990	97	4690	98	4410	108	114				
28	101	7100	99	5720	100	5400	100	5090	110	115	29	100	7020	98	5660	99	5340	99	5020	100	4720	109	114				
29	101	7230	100	5820	100	5500	100	5180	101	115	30	101	7150	99	5760	99	5430	100	5110	100	4810	109	114				
											31	101	7280	99	5860	100	5530	100	5210	100	4900	109	114				

WEIGHT = 12000 LBS							VENR = 136 KIAS							WEIGHT = 11800 LBS							VENR = 135 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST			V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST		V1 DIST
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS		
-35	92	4690	92	3780	92	3500	92	2970	106	114	-35	92	4680	92	3780	92	3500	92	3230	92	2970	105	113				
-30	92	4760	92	3850	92	3560	92	3030	106	114	-30	92	4750	92	3840	92	3560	92	3290	92	3030	105	113				
-25	92	4840	92	3920	92	3630	92	3090	106	114	-25	92	4830	92	3910	92	3630	92	3350	92	3090	105	113				
-20	92	4920	92	3990	92	3700	92	3150	106	114	-20	92	4910	92	3980	92	3690	92	3420	92	3150	105	113				
-15	92	4990	92	4060	92	3770	92	3210	106	114	-15	92	4980	92	4050	92	3760	92	3480	92	3210	105	113				
-10	92	5040	92	4100	92	3810	92	3250	106	114	-10	92	5030	92	4090	92	3800	92	3520	92	3250	105	113				
-5	91	5090	91	4140	91	3840	91	3290	106	114	-5	91	5080	91	4130	91	3840	91	3560	91	3280	105	113				
0	91	5110	91	4150	91	3860	91	3330	106	113	0	91	5090	91	4150	91	3850	91	3570	91	3290	105	113				
5	91	5270	90	4230	91	3980	92	3490	106	113	5	90	5110	89	4120	90	3850	90	3610	91	3380	105	113				
10	93	5530	92	4450	92	4180	93	3930	106	113	10	91	5360	90	4310	91	4050	91	3800	92	3560	105	112				
15	94	5810	93	4670	93	4400	94	4130	107	113	15	93	5630	92	4530	92	4260	93	4000	93	3750	106	112				
20	95	6070	94	4890	94	4600	95	4330	107	113	20	94	5890	93	4740	93	4460	94	4190	94	3920	106	112				
25	96	6360	95	5120	96	4830	96	4540	107	113	25	95	6160	94	4960	94	4670	95	4390	95	4120	106	112				
30	99	6910	97	5560	98	5250	98	4940	108	113	30	98	6690	96	5380	96	5070	97	4770	97	4470	107	112				
31	100	7040	98	5660	98	5340	99	5030	108	113	32	99	6930	97	5570	97	5250	98	4940	98	4640	107	112				
32	100	7170	98	5770	99	5440	99	5120	100	113	33	99	7060	98	5670	98	5350	98	5030	99	4730	107	112				

WEIGHT = 11600 LBS							VENR = 133 KIAS							WEIGHT = 11400 LBS							VENR = 132 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST			V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST		V1 DIST
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS		KIAS	FT	KIAS	FT	KIAS	FT	KIAS		
-35	92	4670	92	3770	92	3490	92	2970	103	112	-35	93	4670	93	3770	93	3490	93	3220	93	2970	102	111				
-30	92	4750	92	3840	92	3560	92	3030	103	112	-30	92	4740	92	3840	92	3560	92	3290	92	3030	102	111				
-25	92	4820	92	3910	92	3620	92	3090	103	112	-25	92	4820	92	3910	92	3620	92	3350	92	3090	102	111				
-20	92	4900	92	3980	92	3690	92	3150	103	112	-20	92	4890	92	3970	92	3690	92	3410	92	3150	102	111				
-15	92	4980	92	4050	92	3760	92	3210	103	112	-15	92	4970	92	4040	92	3760	92	3480	92	3210	102	111				
-10	92	5020	92	4090	92	3800	92	3250	104	112	-10	92	5010	92	4080	92	3790	92	3510	92	3240	102	111				
-5	91	5070	91	4130	91	3830	91	3280	104	112	-5	92	5060	92	4120	92	3830	92	3550	92	3280	103	111				
0	91	5080	91	4140	91	3850	91	3290	104	112	0	91	5080	91	4130	91	3840	91	3560	91	3290	103	111				
5	89	5060	89	4110	89	3820	89	3270	104	112	5	89	5040	89	4100	89	3810	89	3530	89	3250	103	111				
10	90	5200	89	4170	89	3920	90	3400	104	112	10	88	5040	88	4060	88	3790	89	3550	89	3320	103	111				
15	91	5460	90	4380	91	4120	91	3870	105	111	15	90	5290	89	4240	89	3990	90	3740	90	3500	104	111				
20	92	5710	91	4590	92	4320	92	4050	105	111	20	91	5530	90	4440	90	4170	91	3920	91	3670	104	110				
25	93	5970	92	4800	93	4520	93	4240	105	111	25	92	5790	91	4650	91	4370	92	4110	92	3840	104	110				
30	96	6460	95	5190	95	4890	95	4640	106	111	30	94	6250	93	5010	93	4720	94	4440	94	4160	105	110				
33	98	6820	96	5470	96	5160	97	4850	106	111	35	97	6830	96	5480	96	5160	96	4860	97	4560	105	110				
35	99	7080	97	5680	97	5360	98	5040	107	111	37	99	7100	97	5690	97	5360	97	5050	98	4740	106	110				

Figure 7-6 (Sheet 11)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS			
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT			
-35	93 4660	93 3770	93 3490	93 3220	93 2970	100 109	-35	93 4650	93 3770	93 3490	93 3230	93 2970	97 107		
-30	93 4730	93 3830	93 3550	93 3290	93 3030	100 109	-30	93 4730	93 3830	93 3560	93 3290	93 3030	97 107		
-25	92 4810	92 3900	92 3620	92 3350	92 3090	100 109	-25	93 4800	93 3900	93 3620	93 3350	93 3090	97 107		
-20	92 4880	92 3970	92 3690	92 3410	92 3150	100 109	-20	93 4880	93 3970	93 3690	93 3420	93 3150	97 107		
-15	92 4960	92 4040	92 3750	92 3480	92 3210	100 109	-15	93 4950	93 4040	93 3750	93 3480	93 3210	97 107		
-10	92 5000	92 4080	92 3790	92 3510	92 3240	100 109	-10	92 4990	92 4080	92 3790	92 3510	92 3250	98 107		
-5	92 5050	92 4120	92 3830	92 3550	92 3280	100 109	-5	92 5040	92 4110	92 3820	92 3550	92 3280	98 107		
0	91 5060	91 4130	91 3840	91 3560	91 3280	101 109	0	91 5050	91 4120	91 3830	91 3550	91 3280	98 107		
5	89 5030	89 4090	89 3800	89 3520	89 3250	101 109	5	89 5010	89 4080	89 3790	89 3520	89 3250	98 107		
10	88 4980	88 4050	88 3760	88 3480	88 3210	101 109	10	88 4960	88 4030	88 3750	88 3470	88 3200	99 107		
15	87 4960	86 4010	86 3730	87 3490	88 3260	102 109	15	86 4920	86 3990	86 3700	86 3430	86 3160	99 107		
20	88 5180	87 4150	87 3890	88 3650	89 3410	102 109	20	85 4890	85 3960	85 3670	85 3400	85 3130	99 106		
25	89 5410	88 4340	89 4080	89 3830	90 3580	102 109	25	85 4970	84 3980	85 3730	85 3490	86 3260	99 106		
30	91 5840	90 4680	91 4400	91 4130	92 3870	103 108	30	88 5360	87 4280	87 4020	88 3770	88 3530	100 106		
35	94 6360	93 5090	93 4790	93 4500	94 4220	103 108	35	90 5820	89 4640	89 4360	90 4090	90 3830	100 106		
37	95 6610	94 5280	94 4980	94 4670	95 4380	104 108	40	93 6360	91 5070	92 4770	92 4480	92 4190	101 106		
40	97 6990	95 5590	96 5260	96 4950	96 4640	104 108	41	93 6480	91 5160	92 4860	93 4560	93 4270	101 106		
41	98 7130	96 5690	96 5360	96 5040	97 4730	104 108	44	95 6860	93 5460	94 5140	94 4830	94 4520	102 106		

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS			
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT			
-35	93 4660	93 3780	93 3500	93 3240	93 2990	96 106	-35	93 4670	93 3790	93 3520	93 3260	93 3000	95 106		
-30	93 4730	93 3840	93 3570	93 3300	93 3040	96 106	-30	93 4740	93 3860	93 3580	93 3320	93 3060	95 106		
-25	93 4800	93 3910	93 3630	93 3360	93 3100	96 106	-25	93 4810	93 3920	93 3650	93 3380	93 3120	95 106		
-20	93 4880	93 3980	93 3700	93 3430	93 3160	96 106	-20	93 4890	93 3990	93 3710	93 3440	93 3180	95 106		
-15	93 4950	93 4040	93 3760	93 3490	93 3230	96 106	-15	93 4960	93 4060	93 3780	93 3510	93 3240	95 106		
-10	92 4990	92 4080	92 3800	92 3520	92 3260	96 106	-10	92 5000	92 4090	92 3810	92 3540	92 3270	95 106		
-5	92 5030	92 4120	92 3830	92 3550	92 3290	96 106	-5	92 5040	92 4130	92 3840	92 3570	92 3300	95 106		
0	91 5040	91 4120	91 3830	91 3560	91 3290	95 105	0	91 5040	91 4130	91 3850	91 3570	91 3300	94 105		
5	90 5000	90 4080	90 3790	90 3520	90 3250	95 105	5	90 5000	90 4080	90 3800	90 3520	90 3260	93 103		
10	88 4950	88 4030	88 3740	88 3470	88 3200	96 104	10	88 4940	88 4030	88 3740	88 3470	88 3210	93 102		
15	87 4900	87 3980	87 3690	87 3420	87 3150	96 104	15	87 4890	87 3980	87 3690	87 3420	87 3160	93 102		
20	85 4870	85 3950	85 3660	85 3390	85 3120	96 104	20	85 4850	85 3940	85 3660	85 3380	85 3120	93 102		
25	84 4830	84 3910	84 3630	84 3350	84 3090	97 104	25	84 4810	84 3900	84 3620	84 3350	84 3080	94 102		
30	83 4900	83 3900	83 3660	84 3430	84 3200	97 104	30	82 4680	82 3780	82 3500	82 3230	82 2970	94 102		
35	86 5310	85 4230	86 3970	86 3720	87 3470	98 104	35	82 4830	81 3830	82 3590	82 3360	83 3130	95 101		
40	89 5780	87 4590	88 4310	88 4040	89 3780	98 103	40	84 5240	83 4160	84 3900	84 3650	85 3400	95 101		
44	91 6210	89 4930	90 4630	90 4350	90 4070	99 103	44	87 5610	85 4440	86 4170	86 3900	86 3640	96 101		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS			
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT			
-35	93 4690	93 3820	93 3550	93 3280	93 3030	95 106	-35	93 4730	93 3860	93 3580	93 3320	93 3070	94 106		
-30	93 4760	93 3880	93 3610	93 3340	93 3090	95 106	-30	93 4800	93 3920	93 3650	93 3380	93 3130	94 106		
-25	93 4840	93 3950	93 3670	93 3410	93 3150	95 106	-25	93 4870	93 3990	93 3710	93 3440	93 3190	94 106		
-20	93 4910	93 4020	93 3740	93 3470	93 3210	95 106	-20	93 4950	93 4050	93 3780	93 3510	93 3250	94 106		
-15	93 4990	93 4080	93 3800	93 3530	93 3270	95 106	-15	93 5020	93 4120	93 3840	93 3570	93 3310	94 106		
-10	92 5020	92 4120	92 3840	92 3560	92 3300	94 106	-10	93 5060	93 4150	93 3870	93 3600	93 3340	93 106		
-5	92 5060	92 4150	92 3870	92 3590	92 3330	94 105	-5	92 5090	92 4180	92 3900	92 3630	92 3360	93 105		
0	91 5060	91 4150	91 3870	91 3590	91 3330	93 105	0	91 5090	91 4180	91 3900	91 3620	91 3360	93 104		
5	90 5010	90 4100	90 3810	90 3540	90 3280	92 103	5	90 5030	90 4120	90 3840	90 3570	90 3300	92 103		
10	88 4940	88 4040	88 3750	88 3480	88 3220	91 102	10	88 4960	88 4060	88 3770	88 3500	88 3240	91 101		
15	87 4880	87 3980	87 3700	87 3430	87 3160	90 100	15	87 4890	87 3990	87 3710	87 3440	87 3180	90 100		
20	85 4840	85 3940	85 3660	85 3390	85 3130	90 99	20	86 4840	86 3950	86 3670	86 3400	86 3140	89 98		
25	84 4800	84 3900	84 3620	84 3350	84 3090	91 99	25	84 4800	84 3900	84 3620	84 3350	84 3100	88 97		
30	82 4660	82 3770	82 3490	82 3220	82 2960	91 99	30	82 4650	82 3760	82 3490	82 3220	82 2970	88 97		
35	79 4530	79 3640	79 3360	79 3090	79 2840	92 99	35	79 4500	79 3620	79 3350	79 3090	79 2840	89 96		
40	80 4740	79 3750	80 3510	80 3280	81 3050	92 99	40	77 4360	77 3490	77 3220	77 2960	77 2720	89 96		
44	82 5070	81 4000	82 3750	82 3500	83 3260	93 98	44	78 4550	77 3570	77 3340	78 3120	78 2900	90 96		

Figure 7-6 (Sheet 12)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
VENR = 139 KIAS								VENR = 137 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2			TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2										
			10 KTS	20 KTS	30 KTS							10 KTS	20 KTS	30 KTS											
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT												
-35	92	4850	92	3920	92	3630	92	3360	92	3090	107	115	-35	92	4840	92	3920	92	3630	92	3350	92	3090	107	114
-30	92	4920	92	3990	92	3700	92	3420	92	3160	107	115	-30	92	4920	92	3990	92	3700	92	3420	92	3150	107	114
-25	92	5010	92	4060	92	3770	92	3490	92	3220	107	115	-25	92	5000	92	4060	92	3770	92	3480	92	3210	107	114
-20	92	5090	92	4140	92	3840	92	3560	92	3290	107	115	-20	92	5080	92	4130	92	3840	92	3550	92	3280	107	114
-15	92	5150	92	4190	92	3900	92	3610	92	3360	107	115	-15	92	5140	92	4190	92	3890	92	3610	92	3330	107	114
-10	92	5210	91	4230	92	3940	92	3700	93	3460	108	115	-10	91	5180	91	4230	91	3930	91	3640	92	3370	107	114
-5	92	5400	92	4350	92	4090	93	3840	93	3600	108	115	-5	91	5260	91	4230	91	3980	92	3740	92	3500	107	114
0	94	5680	93	4580	94	4310	94	4050	95	3800	108	115	0	93	5530	92	4460	92	4190	93	3940	94	3690	107	114
5	95	5980	94	4820	95	4540	95	4270	96	4010	108	115	5	94	5820	93	4690	94	4420	94	4150	95	3900	108	114
10	97	6280	96	5070	96	4780	97	4500	97	4220	109	115	10	96	6120	94	4930	95	4650	95	4370	96	4100	108	114
15	98	6600	97	5330	97	5020	98	4730	98	4440	109	115	15	97	6420	96	5180	96	4890	97	4600	97	4320	108	114
20	100	6930	98	5600	98	5280	99	4980	99	4680	109	115	20	98	6740	97	5440	97	5130	98	4830	98	4540	108	114
24	101	7260	99	5870	100	5540	100	5220	100	4910	110	115	25	100	7170	98	5790	99	5470	99	5150	100	4840	109	114
25	101	7380	100	5960	100	5630	100	5310	101	4990	110	115	27	101	7420	99	5990	100	5650	100	5330	100	5010	109	114

WEIGHT = 12000 LBS								WEIGHT = 11800 LBS																	
VENR = 136 KIAS								VENR = 135 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2			TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2										
			10 KTS	20 KTS	30 KTS							10 KTS	20 KTS	30 KTS											
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT												
-35	92	4830	92	3910	92	3620	92	3350	92	3080	106	114	-35	92	4820	92	3910	92	3620	92	3350	92	3080	104	113
-30	92	4910	92	3980	92	3690	92	3410	92	3150	106	114	-30	92	4900	92	3970	92	3690	92	3410	92	3140	105	113
-25	92	4990	92	4050	92	3760	92	3480	92	3210	106	114	-25	92	4980	92	4050	92	3760	92	3480	92	3210	105	113
-20	92	5070	92	4120	92	3830	92	3550	92	3270	106	114	-20	92	5060	92	4120	92	3830	92	3540	92	3270	104	113
-15	92	5130	92	4180	92	3890	92	3600	92	3330	106	114	-15	92	5120	92	4180	92	3880	92	3600	92	3320	105	113
-10	92	5170	92	4220	92	3920	92	3630	92	3360	106	114	-10	92	5160	92	4210	92	3920	92	3630	92	3350	105	113
-5	91	5180	91	4220	91	3930	91	3640	91	3390	106	113	-5	91	5170	91	4220	91	3920	91	3630	91	3360	105	113
0	91	5370	91	4320	91	4060	92	3820	92	3570	106	113	0	90	5210	89	4190	90	3940	90	3690	91	3460	105	113
5	93	5650	92	4550	92	4280	93	4020	93	3770	107	113	5	91	5480	90	4400	91	4140	92	3890	92	3650	105	112
10	94	5940	93	4780	94	4510	94	4240	95	3970	107	113	10	93	5760	92	4630	92	4360	93	4100	93	3840	106	112
15	95	6230	94	5020	95	4730	95	4450	96	4180	107	113	15	94	6040	93	4860	93	4580	94	4300	94	4040	106	112
20	97	6530	95	5260	96	4960	96	4670	97	4390	107	113	20	95	6320	94	5100	94	4800	95	4520	95	4240	106	112
25	99	6940	97	5600	97	5280	98	4970	98	4670	108	113	25	97	6710	96	5410	96	5100	96	4800	97	4510	107	112
27	100	7170	98	5790	98	5460	99	5140	99	4840	108	113	28	99	7050	97	5680	97	5360	98	5050	98	4740	107	112
28	100	7300	98	5880	99	5550	99	5230	99	4920	108	113	30	100	7300	98	5880	98	5550	99	5230	99	4910	107	112

WEIGHT = 11600 LBS								WEIGHT = 11400 LBS																	
VENR = 134 KIAS								VENR = 132 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2			TEMP DEG C	TAILWIND 10 KTS	ZERO WIND	HEADWINDS			VR V2										
			10 KTS	20 KTS	30 KTS							10 KTS	20 KTS	30 KTS											
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST	KIAS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT												
-35	92	4820	92	3900	92	3620	92	3340	92	3080	103	112	-35	92	4810	92	3900	92	3620	92	3340	92	3080	102	111
-30	92	4890	92	3970	92	3680	92	3410	92	3140	103	112	-30	92	4880	92	3970	92	3680	92	3410	92	3140	102	111
-25	92	4970	92	4040	92	3750	92	3470	92	3210	103	112	-25	92	4960	92	4040	92	3750	92	3470	92	3200	102	111
-20	92	5050	92	4110	92	3820	92	3540	92	3270	103	112	-20	92	5040	92	4110	92	3820	92	3540	92	3270	102	111
-15	92	5110	92	4170	92	3880	92	3590	92	3320	103	112	-15	92	5110	92	4170	92	3870	92	3590	92	3320	102	111
-10	92	5150	92	4210	92	3910	92	3630	92	3350	104	112	-10	92	5150	92	4200	92	3910	92	3620	92	3350	103	111
-5	91	5160	91	4210	91	3910	91	3630	91	3350	104	112	-5	91	5150	91	4200	91	3910	91	3620	91	3350	103	111
0	89	5120	89	4170	89	3870	89	3580	89	3350	104	112	0	89	5110	89	4160	89	3860	89	3580	89	3300	103	111
5	90	5310	89	4260	90	4010	90	3760	91	3520	104	112	5	88	5140	88	4130	88	3880	89	3640	89	3410	103	111
10	91	5580	90	4480	91	4220	91	3960	92	3710	105	111	10	90	5400	89	4340	89	4080	90	3830	91	3590	104	111
15	93	5850	92	4710	92	4430	93	4170	93	3910	105	111	15	91	5670	90	4550	91	4290	91	4030	92	3770	104	110
20	94	6120	93	4930	93	4650	93	4370	94	4100	105	111	20	92	5930	91	4780	92	4490	92	4220	93	3960	104	110
25	95	6490	94	5230	94	4930	95	4630	95	4350	106	111	25	94	6280	93	5050	93	4760	94	4470	94	4200	105	110
30	98	7050	96	5680	97	5350	97	5040	97	4740	106	111	30	96	6810	95	5480	95	5160	96	4860	96	4560	105	110
31	99	7180	97	5780	97	5450	98	5130	98	4820	106	111	31	97	6930	95	5570	96	5250	96	4940	96	4640	105	110
													34	99	7320	97	5880	97	5540	98	5220	98	4900	106	110

Figure 7-6 (Sheet 13)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS							WEIGHT = 10500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-35	93 4800	93 3890	93 3610	93 3340	93 3080	100 109	-35	93 4790	93 3900	93 3620	93 3350	93 3090	97 107
-30	92 4870	92 3960	92 3680	92 3400	92 3140	100 109	-30	93 4870	93 3960	93 3680	93 3410	93 3150	97 107
-25	92 4950	92 4030	92 3750	92 3470	92 3200	100 109	-25	93 4950	93 4030	93 3750	93 3470	93 3210	97 107
-20	92 5030	92 4100	92 3820	92 3540	92 3270	100 109	-20	93 5020	93 4100	93 3820	93 3540	93 3270	97 107
-15	92 5090	92 4160	92 3870	92 3590	92 3320	100 109	-15	92 5090	92 4160	92 3870	92 3590	92 3320	98 107
-10	92 5130	92 4190	92 3900	92 3620	92 3350	100 109	-10	92 5120	92 4190	92 3900	92 3620	92 3350	98 107
-5	91 5140	91 4200	91 3900	91 3620	91 3350	101 109	-5	91 5120	91 4190	91 3900	91 3620	91 3350	98 107
0	89 5090	89 4150	89 3850	89 3570	89 3300	101 109	0	89 5070	89 4140	89 3850	89 3560	89 3290	98 107
5	88 5050	88 4100	88 3810	88 3530	88 3250	101 109	5	88 5020	88 4090	88 3800	88 3520	88 3250	99 107
10	87 5060	86 4060	87 3810	87 3570	88 3340	102 109	10	86 4980	86 4050	86 3750	86 3470	86 3210	99 107
15	88 5310	87 4260	88 4000	88 3750	89 3510	102 109	15	85 4940	85 4010	85 3720	85 3440	85 3210	99 106
20	89 5560	88 4460	89 4190	89 3940	90 3690	102 109	20	85 5100	85 4080	85 3830	86 3590	86 3360	99 106
25	91 5870	90 4720	90 4440	91 4170	91 3910	103 108	25	87 5390	86 4320	87 4060	87 3810	88 3560	100 106
30	93 6350	92 5090	92 4800	93 4510	93 4230	103 108	30	89 5810	88 4650	89 4370	89 4100	90 3840	100 106
34	95 6800	94 5460	94 5140	95 4830	95 4540	104 108	35	92 6310	90 5050	91 4750	91 4460	92 4180	101 106
35	96 6930	94 5550	95 5230	95 4920	95 4620	104 108	38	94 6660	92 5320	92 5010	93 4710	93 4410	101 106
38	98 7330	96 5870	96 5530	96 5200	97 4890	104 108	40	95 6910	93 5520	93 5200	94 4890	94 4580	102 106
							42	96 7180	94 5730	94 5400	95 5080	95 4760	102 106

WEIGHT = 10000 LBS							WEIGHT = 9500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-35	93 4800	93 3900	93 3620	93 3360	93 3100	96 107	-35	93 4810	93 3920	93 3640	93 3370	93 3120	95 106
-30	93 4870	93 3970	93 3690	93 3420	93 3160	96 106	-30	93 4880	93 3980	93 3710	93 3440	93 3180	95 106
-25	93 4950	93 4040	93 3760	93 3480	93 3220	96 107	-25	93 4960	93 4050	93 3770	93 3500	93 3240	95 106
-20	93 5020	93 4110	93 3820	93 3550	93 3280	96 107	-20	93 5030	93 4120	93 3840	93 3570	93 3300	95 106
-15	92 5090	92 4160	92 3880	92 3600	92 3330	96 106	-15	93 5090	93 4180	93 3890	93 3620	93 3350	95 106
-10	92 5120	92 4190	92 3900	92 3630	92 3360	96 106	-10	92 5130	92 4210	92 3920	92 3640	92 3370	95 106
-5	91 5120	91 4190	91 3900	91 3620	91 3350	95 105	-5	91 5120	91 4200	91 3910	91 3630	91 3360	94 105
0	89 5060	89 4130	89 3840	89 3570	89 3300	95 105	0	89 5050	89 4140	89 3850	89 3570	89 3310	93 103
5	88 5000	88 4080	88 3790	88 3510	88 3250	96 104	5	88 5000	88 4080	88 3790	88 3520	88 3250	93 102
10	86 4960	86 4030	86 3740	86 3470	86 3200	96 104	10	86 4940	86 4030	86 3740	86 3470	86 3200	93 102
15	85 4920	85 3990	85 3700	85 3430	85 3160	96 104	15	85 4900	85 3980	85 3700	85 3420	85 3160	93 102
20	84 4880	84 3960	84 3670	84 3390	84 3130	97 104	20	84 4860	84 3940	84 3660	84 3380	84 3120	94 102
25	83 4930	82 3940	83 3700	83 3460	84 3230	97 104	25	82 4790	82 3880	82 3590	82 3320	82 3060	94 102
30	85 5310	84 4240	85 3980	85 3730	86 3490	98 104	30	81 4830	81 3850	81 3610	82 3370	82 3150	95 101
35	88 5740	87 4580	87 4300	87 4040	88 3780	98 103	35	84 5220	83 4150	83 3900	84 3650	84 3410	95 101
40	90 6260	89 4990	89 4690	90 4400	90 4120	99 103	40	86 5660	85 4500	85 4220	86 3960	86 3700	96 101
42	92 6500	90 5170	90 4870	91 4570	91 4280	99 103	42	87 5860	86 4660	86 4370	87 4100	87 3830	96 101

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS	
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	
-35	93 4830	93 3940	93 3670	93 3400	93 3140	95 106	-35	93 4870	93 3980	93 3710	93 3440	93 3180	94 106
-30	93 4900	93 4010	93 3730	93 3460	93 3200	95 106	-30	93 4940	93 4050	93 3770	93 3500	93 3240	94 106
-25	93 4980	93 4080	93 3800	93 3530	93 3270	95 106	-25	93 5020	93 4120	93 3840	93 3570	93 3300	94 106
-20	93 5060	93 4150	93 3870	93 3590	93 3330	95 106	-20	93 5090	93 4190	93 3900	93 3630	93 3370	94 106
-15	93 5120	93 4200	93 3920	93 3640	93 3380	95 106	-15	93 5150	93 4240	93 3950	93 3680	93 3410	94 106
-10	92 5140	92 4230	92 3940	92 3660	92 3400	94 106	-10	92 5180	92 4260	92 3980	92 3700	92 3430	93 105
-5	91 5130	91 4220	91 3930	91 3650	91 3390	94 105	-5	91 5160	91 4250	91 3960	91 3690	91 3420	93 104
0	90 5060	90 4150	90 3860	90 3590	90 3320	92 103	0	90 5080	90 4170	90 3890	90 3610	90 3350	91 103
5	88 5000	88 4090	88 3800	88 3530	88 3260	91 101	5	88 5010	88 4100	88 3820	88 3550	88 3280	90 101
10	86 4940	86 4030	86 3750	86 3470	86 3210	90 100	10	87 4950	87 4040	87 3760	87 3490	87 3230	89 100
15	85 4890	85 3980	85 3700	85 3420	85 3160	90 99	15	85 4890	85 3990	85 3710	85 3430	85 3170	88 98
20	84 4840	84 3940	84 3650	84 3380	84 3120	91 99	20	84 4840	84 3940	84 3660	84 3390	84 3130	88 97
25	82 4770	82 3870	82 3580	82 3310	82 3050	91 99	25	82 4760	82 3860	82 3580	82 3310	82 3060	88 97
30	80 4650	80 3750	80 3470	80 3200	80 2940	92 99	30	80 4630	80 3740	80 3460	80 3190	80 2940	88 96
35	79 4720	79 3740	79 3510	80 3280	80 3050	92 99	35	77 4500	77 3610	77 3340	77 3070	77 2820	89 96
40	82 5120	81 4050	81 3800	82 3550	82 3310	93 98	40	77 4590	76 3620	77 3390	78 3160	78 2940	90 96
42	83 5280	82 4180	82 3920	83 3670	83 3420	93 98	42	78 4740	77 3740	78 3500	78 3270	79 3040	90 96

Figure 7-6 (Sheet 14)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
VENR = 139 KIAS								VENR = 137 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2										
		V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS				V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS									
-35	92	5000	92	4060	92	3770	92	3480	92	3210	107	115	-35	92	4990	92	4050	92	3760	92	3480	92	3210	107	114
-30	92	5080	92	4130	92	3830	92	3550	92	3280	107	115	-30	92	5070	92	4120	92	3830	92	3540	92	3270	107	114
-25	92	5140	92	4190	92	3890	92	3600	92	3360	107	115	-25	92	5140	92	4180	92	3890	92	3600	92	3320	107	114
-20	92	5210	92	4250	92	3950	92	3670	92	3440	108	115	-20	92	5200	92	4240	92	3940	92	3660	92	3380	107	114
-15	92	5330	91	4300	92	4040	92	3800	93	3560	108	115	-15	91	5230	91	4270	91	3970	91	3690	92	3460	107	114
-10	93	5520	92	4450	93	4190	93	3940	94	3690	108	115	-10	91	5380	91	4340	91	4080	92	3830	92	3590	107	114
-5	94	5790	93	4670	94	4400	94	4140	95	3890	108	115	-5	93	5640	92	4550	93	4290	93	4030	94	3780	107	114
0	96	6100	95	4930	95	4650	96	4370	96	4100	108	115	0	94	5940	93	4800	94	4520	94	4250	95	3990	108	114
5	97	6410	96	5190	96	4890	97	4600	97	4330	109	115	5	96	6250	95	5050	95	4760	96	4480	96	4200	108	114
10	98	6760	97	5460	97	5150	98	4860	98	4560	109	115	10	97	6570	96	5310	96	5010	97	4720	97	4430	108	114
15	100	7110	98	5760	99	5430	99	5120	99	4820	109	115	15	98	6910	97	5590	97	5280	98	4970	98	4670	108	114
19	101	7420	99	6000	100	5670	100	5350	100	5030	110	115	20	100	7240	98	5890	99	5570	99	5250	99	4940	109	114
20	101	7500	100	6070	100	5730	100	5410	101	5090	110	115	21	100	7350	99	5960	99	5630	99	5300	100	4990	109	114
21	102	7580	100	6130	100	5800	101	5470	101	5150	110	115	23	101	7590	99	6140	100	5800	100	5470	100	5150	109	114

WEIGHT = 12000 LBS								WEIGHT = 11800 LBS																	
VENR = 136 KIAS								VENR = 135 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2										
		V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS				V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS									
-35	92	4980	92	4050	92	3760	92	3480	92	3210	106	114	-35	92	4970	92	4040	92	3750	92	3470	92	3200	104	113
-30	92	5060	92	4110	92	3820	92	3540	92	3270	106	114	-30	92	5050	92	4110	92	3820	92	3530	92	3260	105	113
-25	92	5120	92	4180	92	3880	92	3590	92	3320	106	114	-25	92	5120	92	4170	92	3870	92	3590	92	3320	105	113
-20	92	5190	92	4240	92	3940	92	3650	92	3370	106	114	-20	92	5180	92	4230	92	3930	92	3650	92	3370	105	113
-15	91	5220	91	4260	91	3960	91	3670	91	3390	106	114	-15	91	5210	91	4250	91	3950	91	3670	91	3390	105	113
-10	90	5240	90	4270	90	3970	91	3710	91	3480	106	113	-10	90	5230	90	4260	90	3960	90	3680	90	3400	105	113
-5	91	5470	91	4410	91	4150	92	3900	92	3660	106	113	-5	90	5310	89	4280	90	4020	90	3780	91	3540	105	113
0	93	5760	92	4650	92	4380	93	4120	94	3860	107	113	0	91	5590	91	4500	91	4240	92	3980	92	3730	106	112
5	94	6060	93	4890	94	4610	94	4330	95	4070	107	113	5	93	5880	92	4740	92	4460	93	4200	93	3940	106	112
10	96	6370	94	5150	95	4850	95	4570	96	4290	107	113	10	94	6180	93	4980	94	4700	94	4420	94	4150	106	112
15	97	6690	96	5410	96	5100	96	4800	97	4510	107	113	15	96	6480	94	5230	95	4940	95	4640	96	4360	106	112
20	98	7050	97	5700	97	5380	98	5070	98	4760	108	113	20	97	6820	95	5510	96	5190	96	4890	97	4600	107	112
23	100	7340	98	5930	98	5600	99	5280	99	4970	108	113	24	99	7210	97	5820	97	5500	98	5180	98	4870	107	112
24	100	7460	98	6030	99	5690	99	5370	99	5050	108	113	25	99	7330	97	5920	98	5590	98	5260	98	4950	107	112
													26	100	7450	98	6010	98	5680	98	5350	99	5030	107	112

WEIGHT = 11600 LBS								WEIGHT = 11400 LBS																	
VENR = 134 KIAS								VENR = 132 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND		HEADWINDS			VR V2										
		V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS				V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS									
-35	92	4970	92	4040	92	3750	92	3470	92	3200	103	112	-35	93	4960	93	4030	93	3750	93	3470	93	3200	102	111
-30	92	5040	92	4100	92	3810	92	3530	92	3260	103	112	-30	92	5030	92	4100	92	3810	92	3530	92	3260	102	111
-25	92	5110	92	4160	92	3870	92	3590	92	3310	104	112	-25	92	5100	92	4160	92	3870	92	3580	92	3310	102	111
-20	92	5170	92	4220	92	3930	92	3640	92	3370	104	112	-20	92	5170	92	4220	92	3920	92	3640	92	3370	102	111
-15	91	5200	91	4250	91	3950	91	3660	91	3390	104	112	-15	91	5190	91	4240	91	3940	91	3660	91	3380	103	111
-10	90	5220	90	4260	90	3960	90	3670	90	3390	104	112	-10	90	5210	90	4250	90	3950	90	3670	90	3390	103	111
-5	89	5190	89	4230	89	3930	89	3660	90	3420	104	112	-5	89	5170	89	4220	89	3920	89	3630	89	3360	103	111
0	90	5420	89	4360	90	4100	90	3850	91	3610	105	112	0	88	5250	88	4220	88	3970	89	3720	89	3490	103	111
5	91	5700	90	4590	91	4320	92	4060	92	3810	105	111	5	90	5520	89	4440	90	4180	90	3920	91	3680	104	111
10	93	5980	92	4830	92	4550	93	4270	93	4010	105	111	10	91	5800	90	4670	91	4400	91	4130	92	3880	104	110
15	94	6280	93	5060	93	4770	94	4490	94	4210	105	111	15	93	6080	91	4900	92	4610	92	4340	93	4070	104	110
20	95	6590	94	5320	94	5020	95	4720	95	4430	106	111	20	94	6380	93	5140	93	4850	93	4560	94	4280	105	110
25	97	7080	96	5710	96	5390	97	5080	97	4770	106	111	25	96	6840	94	5510	95	5200	95	4890	96	4600	105	110
26	98	7190	96	5800	97	5480	97	5160	97	4850	106	111	27	97	7060	95	5690	96	5370	96	5050	96	4750	105	110
27	98	7310	97	5900	97	5570	97	5240	98	4930	106	111	30	98	7420	97	5980	97	5640	97	5310	98	5000	106	110
													31	99	7550	97	6080	97	5740	98	5410	98	5080	106	110

Figure 7-6 (Sheet 15)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS										WEIGHT = 10500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2						
	10 KTS	V1 DIST		10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			10 KTS	20 KTS		30 KTS	VR V2											
	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT	KIAS		FT	KIAS	FT	KIAS		FT										
-35	93	4950	93	4030	93	3740	93	3470	93	3200	100	109	-35	93	4940	93	4030	93	3750	93	3470	93	3210	93	3210	97	107
-30	92	5020	92	4090	92	3810	92	3530	92	3260	100	109	-30	93	5010	93	4090	93	3810	93	3530	93	3260	93	3260	97	107
-25	92	5090	92	4150	92	3860	92	3580	92	3310	100	109	-25	92	5080	92	4150	92	3860	92	3580	92	3320	92	3320	98	107
-20	92	5150	92	4210	92	3920	92	3640	92	3360	100	109	-20	92	5140	92	4210	92	3920	92	3640	92	3370	92	3370	98	107
-15	91	5180	91	4230	91	3940	91	3650	91	3380	100	109	-15	91	5160	91	4230	91	3940	91	3650	91	3380	91	3380	98	107
-10	90	5190	90	4240	90	3940	90	3660	90	3380	101	109	-10	90	5170	90	4230	90	3940	90	3660	90	3380	90	3380	98	107
-5	89	5150	89	4200	89	3910	89	3620	89	3350	101	109	-5	89	5130	89	4190	89	3900	89	3620	89	3340	89	3340	98	107
0	87	5110	87	4160	87	3860	87	3580	87	3300	101	109	0	87	5080	87	4140	87	3850	87	3570	87	3300	87	3300	99	107
5	87	5170	86	4150	87	3900	87	3660	88	3430	102	109	5	86	5040	86	4100	86	3810	86	3530	86	3250	86	3250	99	107
10	88	5430	87	4360	88	4100	88	3850	89	3610	102	109	10	84	5000	84	4060	84	3770	85	3520	85	3290	85	3290	99	106
15	90	5690	89	4580	89	4310	90	4050	90	3790	102	109	15	86	5230	85	4190	85	3940	86	3690	87	3460	87	3460	100	106
20	91	5970	90	4800	90	4520	91	4250	91	3980	103	108	20	87	5480	86	4400	87	4130	87	3880	88	3630	88	3630	100	106
25	93	6380	91	5130	92	4830	92	4540	93	4260	103	108	25	89	5840	88	4690	88	4410	89	4140	89	3880	89	3880	100	106
30	95	6900	94	5550	94	5230	94	4920	95	4620	104	108	30	91	6290	90	5050	90	4750	91	4460	91	4180	91	4180	101	106
31	96	7020	94	5640	94	5320	95	5010	95	4700	104	108	35	94	6850	92	5490	92	5170	93	4860	93	4560	93	4560	101	106
35	98	7530	96	6050	96	5710	97	5370	97	5050	104	108	38	95	7240	93	5800	94	5460	94	5140	94	4830	94	4830	102	106

WEIGHT = 10000 LBS										WEIGHT = 9500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2						
	10 KTS	V1 DIST		10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			10 KTS	20 KTS		30 KTS	VR V2											
	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT	KIAS		FT	KIAS	FT	KIAS		FT										
-35	93	4940	93	4040	93	3750	93	3480	93	3220	96	107	-35	93	4950	93	4050	93	3770	93	3500	93	3240	93	3240	96	106
-30	93	5010	93	4100	93	3810	93	3540	93	3270	96	107	-30	93	5020	93	4110	93	3830	93	3560	93	3290	93	3290	95	106
-25	92	5080	92	4160	92	3870	92	3590	92	3330	96	106	-25	93	5090	93	4170	93	3890	93	3610	93	3340	93	3340	95	106
-20	92	5140	92	4210	92	3920	92	3650	92	3380	96	106	-20	92	5150	92	4230	92	3940	92	3660	92	3390	92	3390	95	106
-15	91	5160	91	4230	91	3940	91	3660	91	3390	96	105	-15	92	5160	92	4240	92	3950	92	3670	92	3400	92	3400	95	105
-10	91	5160	91	4230	91	3940	91	3660	91	3390	95	105	-10	91	5170	91	4240	91	3950	91	3670	91	3400	91	3400	94	104
-5	89	5120	89	4190	89	3900	89	3620	89	3350	95	105	-5	89	5120	89	4190	89	3900	89	3620	89	3350	89	3350	93	103
0	88	5070	88	4130	88	3840	88	3560	88	3290	96	104	0	88	5060	88	4130	88	3840	88	3570	88	3300	88	3300	93	102
5	86	5020	86	4090	86	3800	86	3520	86	3250	96	104	5	86	5000	86	4080	86	3790	86	3510	86	3250	86	3250	93	102
10	85	4970	85	4040	85	3750	85	3470	85	3200	96	104	10	85	4950	85	4030	85	3740	85	3470	85	3200	85	3200	94	102
15	83	4940	83	4000	83	3710	83	3440	83	3170	97	104	15	83	4910	83	3990	83	3700	83	3430	83	3160	83	3160	94	102
20	83	5010	82	4010	83	3760	83	3530	84	3300	97	104	20	82	4870	82	3950	82	3660	82	3390	82	3120	82	3120	94	102
25	85	5340	84	4270	85	4020	85	3770	86	3520	97	104	25	81	4860	80	3880	81	3640	81	3410	82	3180	82	3180	95	101
30	87	5740	86	4590	86	4310	87	4050	87	3790	98	104	30	83	5220	82	4160	83	3910	83	3660	84	3420	84	3420	95	101
35	89	6210	88	4960	88	4670	89	4380	89	4100	98	103	35	85	5630	84	4490	85	4210	85	3950	85	3690	85	3690	96	101
38	91	6550	89	5230	90	4930	90	4630	91	4340	99	103	40	88	6130	86	4890	87	4590	87	4310	87	4030	87	4030	96	101
40	92	6810	90	5430	91	5120	91	4810	91	4510	99	103															

WEIGHT = 9000 LBS										WEIGHT = 8500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND	HEADWINDS						VR V2						
	10 KTS	V1 DIST		10 KTS	20 KTS	30 KTS	VR V2	10 KTS	V1 DIST			10 KTS	20 KTS		30 KTS	VR V2											
	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT	KIAS		FT	KIAS	FT	KIAS		FT										
-35	93	4980	93	4080	93	3800	93	3520	93	3260	95	106	-35	93	5010	93	4110	93	3830	93	3560	93	3300	93	3300	94	106
-30	93	5050	93	4140	93	3860	93	3580	93	3320	95	106	-30	93	5080	93	4180	93	3890	93	3620	93	3360	93	3360	94	106
-25	93	5110	93	4200	93	3910	93	3630	93	3370	95	106	-25	93	5140	93	4230	93	3950	93	3670	93	3410	93	3410	94	106
-20	92	5170	92	4250	92	3960	92	3690	92	3420	94	106	-20	93	5200	93	4290	93	4000	93	3720	93	3450	93	3450	94	106
-15	92	5180	92	4260	92	3970	92	3690	92	3430	94	105	-15	92	5210	92	4290	92	4010	92	3730	92	3460	92	3460	93	105
-10	91	5180	91	4260	91	3970	91	3690	91	3420	93	104	-10	91	5200	91	4290	91	4000	91	3720	91	3450	91	3450	92	104
-5	89	5120	89	4200	89	3910	89	3640	89	3370	92	103	-5	89	5140	89	4230	89	3940	89	3660	89	3400	89	3400	91	103
0	88	5060	88	4140	88	3850	88	3580	88	3310	91	101	0	88	5070	88	4160	88	3870	88	3600	88	3330	88	3330	90	101
5	86	5000	86	4080	86	3800	86	3520	86	3250	90	100	5	86	5000	86	4090	86	3810	86	3530	86	3270	86	3270	89	99
10	85	4940	85	4030	85	3740	85	3470	85	3200	90	99	10	85	4940	85	4030	85	3750	85	3480	85	3210	85	3210	88	98
15	83	4890	83	3980	83	3700	83	3420	83	3160	91	99	15	83	4890	83	3980	83	3700	83	3430	83	3170	83	3170	88	97
20	82	4850	82	3940	82	3650	82	3380	82	3120	91	99	20	82	4840	82	3930	82	3650	82	3380	82	3120	82	3120	88	97
25	80	4760	80	3850	80	3560	80	3290	80	3030	92	99	25	80	4740	80	3840	80	3560	80	3290	80	3030	80	3030	88	96
30	79	4730	78	3750	79	3520	79	3290	80	3070	92	99															

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 139 KIAS							WEIGHT = 12200 LBS							VENR = 138 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		10 KTS
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	
-35	92	5150	92	4200	92	3900	92	3610	92	3340	107	115	-35	92	5140	92	4190	92	3890	92	3610	92	3330	107	114		
-30	92	5230	92	4270	92	3970	92	3680	92	3410	107	115	-30	92	5220	92	4260	92	3960	92	3670	92	3390	107	114		
-25	92	5300	92	4330	92	4030	92	3740	92	3490	107	115	-25	92	5290	92	4330	92	4020	92	3730	92	3450	107	114		
-20	92	5360	92	4380	92	4080	92	3830	93	3590	108	115	-20	92	5350	92	4380	92	4070	92	3780	92	3490	107	114		
-15	93	5620	92	4540	93	4280	93	4020	94	3770	108	115	-15	92	5480	91	4420	91	4160	92	3910	93	3670	107	114		
-10	94	5900	93	4770	94	4500	94	4230	95	3980	108	115	-10	93	5750	92	4650	93	4380	93	4120	94	3860	107	114		
-5	96	6220	95	5040	96	4750	96	4470	96	4200	108	115	-5	94	6060	93	4900	94	4620	94	4350	95	4090	108	114		
0	97	6560	96	5310	96	5010	97	4720	97	4440	109	115	0	96	6380	95	5160	95	4870	96	4590	96	4310	108	114		
5	99	6910	97	5590	98	5280	98	4980	98	4680	109	115	5	97	6720	96	5440	96	5130	97	4840	97	4550	108	114		
10	100	7290	99	5910	99	5590	99	5270	100	4960	109	115	10	99	7090	97	5740	98	5420	98	5110	98	4810	109	114		
13	101	7530	99	6100	100	5770	100	5440	100	5130	110	115	15	100	7480	99	6060	99	5720	99	5400	100	5080	109	114		
15	102	7690	100	6240	100	5900	101	5570	101	5240	110	115	18	101	7720	99	6260	100	5920	100	5580	100	5260	109	114		

WEIGHT = 12000 LBS							VENR = 136 KIAS							WEIGHT = 11800 LBS							VENR = 135 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		10 KTS
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	
-35	92	5130	92	4180	92	3890	92	3600	92	3330	106	114	-35	92	5130	92	4180	92	3880	92	3600	92	3330	104	113		
-30	92	5210	92	4250	92	3950	92	3670	92	3390	106	114	-30	92	5200	92	4250	92	3950	92	3660	92	3390	105	113		
-25	92	5280	92	4320	92	4020	92	3730	92	3450	106	114	-25	92	5270	92	4310	92	4010	92	3720	92	3440	105	113		
-20	92	5340	92	4370	92	4060	92	3770	92	3490	106	114	-20	92	5330	92	4360	92	4060	92	3770	92	3490	105	113		
-15	90	5320	90	4340	90	4030	91	3790	91	3550	106	113	-15	90	5300	90	4330	90	4030	90	3740	90	3450	105	113		
-10	91	5580	91	4500	91	4240	92	3990	92	3740	106	113	-10	90	5410	89	4370	90	4110	90	3860	91	3620	105	112		
-5	93	5880	92	4750	93	4480	93	4210	94	3950	107	113	-5	92	5700	91	4600	91	4330	92	4070	92	3820	106	112		
0	94	6190	93	5010	94	4720	94	4440	95	4170	107	113	0	93	6010	92	4850	93	4570	93	4300	94	4040	106	112		
5	96	6510	95	5270	95	4970	95	4680	96	4400	107	113	5	94	6310	93	5100	94	4810	94	4530	95	4250	106	112		
10	97	6860	96	5550	96	5240	97	4940	97	4640	108	113	10	96	6640	94	5370	95	5070	95	4770	96	4490	106	112		
15	99	7230	97	5860	98	5530	98	5210	98	4910	108	113	15	97	6990	96	5660	96	5340	96	5030	97	4730	107	112		
18	100	7470	98	6050	98	5720	99	5390	99	5080	108	113	20	99	7410	97	5990	97	5660	98	5340	98	5020	107	112		
20	100	7660	99	6200	99	5860	99	5530	100	5210	108	113	22	100	7630	98	6170	98	5830	99	5500	99	5180	107	112		

WEIGHT = 11600 LBS							VENR = 134 KIAS							WEIGHT = 11400 LBS							VENR = 133 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2	
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		10 KTS
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	
-35	92	5120	92	4170	92	3880	92	3600	92	3320	103	112	-35	92	5110	92	4170	92	3880	92	3590	92	3320	102	111		
-30	92	5190	92	4240	92	3940	92	3660	92	3380	103	112	-30	92	5180	92	4240	92	3940	92	3660	92	3380	102	111		
-25	92	5260	92	4310	92	4010	92	3720	92	3440	104	112	-25	92	5260	92	4300	92	4000	92	3720	92	3440	102	111		
-20	92	5320	92	4350	92	4050	92	3760	92	3480	104	112	-20	92	5310	92	4350	92	4050	92	3760	92	3480	103	111		
-15	90	5290	90	4320	90	4020	90	3730	90	3450	104	112	-15	90	5280	90	4320	90	4020	90	3730	90	3450	103	111		
-10	89	5250	89	4290	89	3980	89	3740	90	3500	104	112	-10	89	5240	89	4280	89	3980	89	3690	89	3410	103	111		
-5	90	5530	89	4460	90	4190	90	3940	91	3690	105	112	-5	89	5360	88	4310	88	4060	89	3810	90	3570	104	111		
0	92	5820	91	4690	91	4420	92	4160	92	3900	105	111	0	90	5640	89	4540	90	4280	90	4020	91	3770	104	111		
5	93	6120	92	4940	92	4650	93	4380	93	4110	105	111	5	91	5930	90	4780	91	4500	91	4240	92	3970	104	110		
10	94	6430	93	5200	94	4900	94	4610	94	4330	105	111	10	93	6230	92	5030	92	4740	93	4460	93	4180	104	110		
15	96	6760	94	5470	95	5160	95	4860	95	4570	106	111	15	94	6540	93	5280	93	4980	94	4690	94	4410	105	110		
20	97	7160	96	5790	96	5460	96	5150	97	4840	106	111	20	96	6910	94	5580	95	5270	95	4960	95	4670	105	110		
22	98	7370	96	5960	97	5630	97	5310	97	4990	106	111	23	97	7230	95	5840	96	5510	96	5190	96	4880	105	110		
23	99	7480	97	6050	97	5710	98	5390	98	5070	106	111	25	98	7450	96	6020	96	5680	97	5350	97	5040	106	110		
													27	99	7690	97	6210	97	5860	98	5530	98	5200	106	110		

Figure 7-6 (Sheet 17)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 11000 LBS								VENR = 130 KIAS								HEIGHT = 10500 LBS								VENR = 126 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS V1 DIST	KIAS FT	V1 DIST	KIAS FT	10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT			10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT													
-35	93	5100	93	4160	93	3870	93	3590	93	3320	100	109	-35	93	5090	93	4160	93	3870	93	3600	93	3330	97	107						
-30	92	5170	92	4230	92	3940	92	3650	92	3380	100	109	-30	92	5160	92	4230	92	3940	92	3660	92	3380	97	107						
-25	92	5240	92	4290	92	4000	92	3710	92	3440	100	109	-25	92	5230	92	4290	92	4000	92	3710	92	3440	98	107						
-20	92	5300	92	4340	92	4040	92	3760	92	3480	100	109	-20	92	5280	92	4340	92	4040	92	3760	92	3480	98	107						
-15	90	5260	90	4300	90	4010	90	3720	90	3440	101	109	-15	90	5240	90	4300	90	4000	90	3710	90	3440	98	107						
-10	89	5220	89	4260	89	3970	89	3680	89	3400	101	109	-10	89	5200	89	4250	89	3960	89	3670	89	3400	98	107						
-5	87	5170	87	4220	87	3920	87	3630	87	3360	101	109	-5	87	5150	87	4200	87	3910	87	3620	87	3350	99	107						
0	87	5280	86	4250	87	3990	87	3750	88	3510	102	109	0	86	5100	86	4160	86	3860	86	3580	86	3300	99	107						
5	88	5550	88	4470	88	4200	89	3950	89	3700	102	109	5	85	5100	84	4120	84	3850	85	3610	86	3370	99	106						
10	90	5830	89	4700	89	4420	90	4160	90	3900	102	109	10	86	5350	85	4300	86	4040	86	3790	87	3550	100	106						
15	91	6120	90	4930	90	4650	91	4370	91	4100	103	108	15	87	5620	86	4510	87	4250	87	3990	88	3740	100	106						
20	92	6450	91	5200	92	4900	92	4610	92	4330	103	108	20	89	5910	88	4760	88	4480	88	4210	89	3940	100	106						
25	95	6930	93	5590	94	5270	94	4960	94	4660	103	108	25	91	6330	89	5090	90	4790	90	4510	91	4230	101	106						
27	96	7150	94	5760	94	5440	95	5120	95	4810	104	108	30	93	6830	91	5490	92	5170	92	4860	92	4570	101	106						
30	97	7500	95	6040	96	5700	96	5370	96	5050	104	108	31	93	6940	92	5570	92	5250	92	4940	93	4640	101	106						
31	98	7630	96	6140	96	5800	96	5460	97	5140	104	108	35	96	7450	94	5980	94	5640	94	5310	95	4990	102	106						

HEIGHT = 10000 LBS								VENR = 124 KIAS								HEIGHT = 9500 LBS								VENR = 120 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS V1 DIST	KIAS FT	V1 DIST	KIAS FT	10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT			10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT													
-35	93	5090	93	4170	93	3880	93	3600	93	3340	96	107	-35	93	5100	93	4180	93	3900	93	3620	93	3350	96	106						
-30	93	5160	93	4230	93	3940	93	3660	93	3390	96	106	-30	93	5170	93	4250	93	3960	93	3680	93	3410	95	106						
-25	92	5230	92	4300	92	4000	92	3720	92	3450	96	106	-25	92	5240	92	4310	92	4020	92	3740	92	3470	95	106						
-20	92	5280	92	4340	92	4050	92	3760	92	3490	96	106	-20	92	5290	92	4350	92	4060	92	3780	92	3500	95	106						
-15	90	5230	90	4290	90	4000	90	3720	90	3440	95	105	-15	91	5230	91	4300	91	4010	91	3730	91	3460	94	104						
-10	89	5180	89	4240	89	3950	89	3670	89	3400	95	105	-10	89	5180	89	4250	89	3960	89	3670	89	3400	93	103						
-5	87	5130	87	4190	87	3900	87	3620	87	3340	96	104	-5	87	5120	87	4190	87	3900	87	3620	87	3350	93	102						
0	86	5080	86	4140	86	3850	86	3570	86	3300	96	104	0	86	5060	86	4130	86	3840	86	3560	86	3290	93	102						
5	84	5030	84	4100	84	3800	84	3520	84	3250	96	104	5	84	5010	84	4080	84	3790	84	3520	84	3250	94	102						
10	83	4990	83	4060	83	3760	83	3480	83	3230	97	104	10	83	4970	83	4040	83	3750	83	3470	83	3200	94	102						
15	83	5140	83	4120	83	3870	84	3630	84	3390	97	104	15	82	4930	82	4000	82	3710	82	3430	82	3160	94	102						
20	85	5410	84	4330	84	4080	85	3820	85	3580	97	104	20	81	4930	80	3950	80	3700	81	3460	82	3230	95	101						
25	87	5770	86	4640	86	4360	86	4090	87	3830	98	104	25	83	5260	82	4200	82	3950	83	3700	83	3460	95	101						
30	89	6200	87	4970	88	4670	88	4390	89	4120	98	103	30	85	5630	84	4500	84	4230	84	3960	85	3710	95	101						
35	91	6740	90	5400	90	5090	90	4780	91	4480	99	103	35	87	6080	86	4860	86	4570	86	4290	87	4010	96	101						
37	92	7000	91	5600	91	5280	91	4970	92	4660	99	103	37	88	6310	86	5040	87	4740	87	4450	88	4170	96	101						

HEIGHT = 9000 LBS								VENR = 117 KIAS								HEIGHT = 8500 LBS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS V1 DIST	KIAS FT	V1 DIST	KIAS FT	10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT			10 KTS V1 DIST	20 KTS V1 DIST	30 KTS V1 DIST	KIAS FT	KIAS FT	KIAS FT													
-35	93	5120	93	4210	93	3920	93	3650	93	3380	95	106	-35	93	5160	93	4250	93	3960	93	3690	93	3420	94	106						
-30	93	5190	93	4270	93	3980	93	3710	93	3440	95	106	-30	93	5230	93	4310	93	4020	93	3740	93	3480	94	106						
-25	93	5260	93	4330	93	4040	93	3760	93	3490	95	106	-25	93	5290	93	4370	93	4080	93	3800	93	3530	94	106						
-20	92	5300	92	4370	92	4080	92	3800	92	3530	94	106	-20	92	5340	92	4410	92	4120	92	3840	92	3560	93	106						
-15	91	5250	91	4320	91	4030	91	3750	91	3480	93	104	-15	91	5270	91	4350	91	4060	91	3780	91	3510	92	104						
-10	89	5180	89	4260	89	3970	89	3690	89	3420	92	103	-10	89	5200	89	4280	89	3990	89	3710	89	3440	91	102						
-5	87	5120	87	4190	87	3900	87	3630	87	3360	91	101	-5	88	5130	88	4210	88	3920	88	3640	88	3380	90	101						
0	86	5050	86	4130	86	3850	86	3570	86	3300	90	100	0	86	5060	86	4140	86	3860	86	3580	86	3310	89	99						
5	84	5000	84	4080	84	3790	84	3510	84	3250	91	99	5	85	5000	85	4080	85	3800	85	3520	85	3260	88	98						
10	83	4950	83	4030	83	3740	83	3470	83	3200	91	99	10	83	4940	83	4030	83	3740	83	3470	83	3210	88	97						
15	82	4900	82	3980	82	3700	82	3420	82	3160	91	99	15	82	4890	82	3980	82	3690	82	3420	82	3160	88	97						
20	80	4850	80	3930	80	3640	80	3370	80	3100	92	99	20	80	4830	80	3920	80	3640	80	3360	80	3100	88	96						
25	78	4760	78	3840	78	3560	79	3330	79	3100	92	99	25	78	4730	78	3820	78	3540	78	3270	78	3010	89	96						
30	80	5090	79	4050	80	3800	80	3560	81	3330	92	99	30	76	4630	76	3730	76	3450	76	3180	77	2960	89	96						
35	82	5490	81	4370	82	4100	82	3840	83	3590	93	98	35	78	4930	77	3910	78	3660	78	3420	79	3190	90	96						
37	83	5680	82	4520	83	4240	83	3970	84	3720	93	98	37	79	5090	78	4040	79	3790	79	3540	79	3300	90	96						

Figure 7-6 (Sheet 18)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
9000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 12375 LBS								VENR = 139 KIAS								HEIGHT = 12200 LBS								VENR = 138 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT						
-35	92	5270	92	4300	92	4000	92	3740	93	3500	108	115	-35	92	5260	92	4290	92	3990	92	3700	92	3420	107	114						
-30	92	5400	91	4360	92	4100	92	3850	93	3610	108	115	-30	91	5310	91	4340	91	4040	91	3750	92	3510	107	114						
-25	92	5550	92	4480	92	4220	93	3970	93	3720	108	115	-25	91	5410	91	4380	91	4110	92	3860	92	3620	107	114						
-20	93	5760	92	4660	93	4390	93	4130	94	3880	108	115	-20	92	5610	91	4540	92	4270	92	4020	93	3770	107	114						
-15	94	6040	94	4890	94	4610	95	4340	95	4080	108	115	-15	93	5880	92	4760	93	4490	93	4220	94	3960	107	114						
-10	96	6340	95	5150	95	4850	96	4570	96	4300	109	115	-10	95	6180	94	5010	94	4730	95	4450	95	4180	108	114						
-5	97	6690	96	5430	96	5120	97	4830	97	4540	109	115	-5	96	6510	95	5280	95	4980	95	4690	96	4410	108	114						
0	99	7060	97	5730	98	5410	98	5100	99	4800	109	115	0	97	6870	96	5570	97	5260	97	4960	97	4660	108	114						
5	100	7470	99	6060	99	5730	99	5410	100	5090	110	115	5	99	7260	97	5890	98	5560	98	5250	99	4940	109	114						
7	101	7640	99	6200	100	5860	100	5530	100	5210	110	115	9	100	7580	99	6150	99	5820	99	5490	100	5170	109	114						
9	101	7830	100	6340	100	5990	101	5660	101	5330	110	115	10	100	7670	99	6220	99	5880	100	5550	100	5230	109	114						
													12	101	7840	99	6360	100	6010	100	5680	100	5350	109	114						

HEIGHT = 12000 LBS								VENR = 136 KIAS								HEIGHT = 11800 LBS								VENR = 135 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT	KIAS	FT				
-35	92	5250	92	4290	92	3990	92	3700	92	3420	106	114	-35	92	5240	92	4280	92	3980	92	3690	92	3410	105	113						
-30	91	5300	91	4330	91	4030	91	3740	91	3460	106	114	-30	91	5290	91	4330	91	4020	91	3730	91	3450	105	113						
-25	91	5350	91	4380	91	4070	91	3780	91	3510	106	114	-25	91	5340	91	4370	91	4070	91	3770	91	3490	105	113						
-20	91	5450	90	4400	90	4140	91	3890	92	3650	106	113	-20	90	5350	90	4370	90	4070	90	3780	90	3540	105	113						
-15	92	5710	91	4610	92	4350	92	4090	93	3840	106	113	-15	90	5540	90	4470	90	4210	91	3960	91	3710	105	112						
-10	93	6000	92	4850	93	4580	93	4310	94	4040	107	113	-10	92	5820	91	4700	91	4430	92	4170	92	3910	106	112						
-5	95	6320	93	5120	94	4830	94	4540	95	4270	107	113	-5	93	6130	92	4960	93	4680	93	4400	94	4130	106	112						
0	96	6660	95	5390	95	5090	96	4800	96	4510	107	113	0	95	6450	93	5220	94	4930	94	4640	95	4360	106	112						
5	97	7020	96	5690	96	5390	97	5070	97	4770	108	113	5	96	6800	95	5500	95	5200	95	4900	96	4600	107	112						
10	99	7420	97	6010	98	5680	98	5360	98	5050	108	113	10	97	7170	96	5810	96	5490	97	5170	97	4870	107	112						
12	100	7580	98	6150	98	5810	99	5480	99	5160	108	113	14	99	7490	97	6070	97	5730	98	5410	98	5090	107	112						
14	100	7750	98	6280	99	5940	99	5610	99	5280	108	113	15	99	7570	97	6140	98	5800	98	5470	98	5150	107	112						
													17	99	7740	98	6270	98	5930	98	5600	99	5270	107	112						

HEIGHT = 11600 LBS								VENR = 134 KIAS								HEIGHT = 11400 LBS								VENR = 133 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT	KIAS	FT				
-35	92	5230	92	4270	92	3980	92	3690	92	3410	104	112	-35	92	5220	92	4270	92	3970	92	3690	92	3410	103	111						
-30	91	5280	91	4320	91	4020	91	3730	91	3450	104	112	-30	91	5270	91	4310	91	4010	91	3730	91	3450	103	111						
-25	91	5330	91	4360	91	4060	91	3770	91	3490	104	112	-25	91	5320	91	4350	91	4050	91	3760	91	3480	103	111						
-20	90	5340	90	4370	90	4060	90	3770	90	3490	104	112	-20	90	5330	90	4360	90	4060	90	3760	90	3480	103	111						
-15	89	5370	88	4340	89	4080	89	3830	90	3590	104	112	-15	88	5300	88	4330	88	4030	88	3740	89	3470	103	111						
-10	90	5640	89	4550	90	4290	91	4030	91	3780	105	111	-10	89	5460	88	4410	89	4150	89	3900	90	3650	104	111						
-5	92	5940	91	4800	91	4520	92	4250	92	3990	105	111	-5	90	5750	89	4640	90	4370	90	4110	91	3860	104	111						
0	93	6250	92	5050	92	4770	93	4490	93	4210	105	111	0	92	6060	91	4890	91	4610	92	4340	92	4080	104	110						
5	94	6580	93	5320	94	5020	94	4730	95	4450	105	111	5	93	6370	92	5150	92	4860	93	4570	93	4290	104	110						
10	96	6930	94	5610	95	5300	95	4990	96	4700	106	111	10	94	6700	93	5420	93	5110	94	4820	94	4530	105	110						
15	97	7310	96	5920	96	5600	96	5280	97	4970	106	111	15	96	7060	94	5720	95	5400	95	5090	95	4790	105	110						
17	98	7480	96	6060	97	5720	97	5400	97	5080	106	111	19	97	7420	96	6010	96	5670	96	5350	97	5040	105	110						
19	99	7690	97	6230	97	5890	98	5550	98	5230	107	111	20	98	7530	96	6090	96	5760	97	5430	97	5110	106	110						
													23	99	7870	97	6360	97	6020	98	5680	98	5350	106	110						

Figure 7-6 (Sheet 19)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
9000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT											
-35	92	5210	92	4260	92	3970	92	3680	92	3410	100	109	-35	92	5200	92	4260	92	3970	92	3680	92	3410	100	109
-30	91	5260	91	4300	91	4010	91	3720	91	3440	100	109	-30	91	5240	91	4300	91	4000	91	3720	91	3440	100	109
-25	91	5300	91	4340	91	4050	91	3760	91	3480	101	109	-25	91	5290	91	4340	91	4040	91	3750	91	3480	101	109
-20	90	5310	90	4350	90	4050	90	3760	90	3480	101	109	-20	90	5290	90	4340	90	4040	90	3750	90	3470	98	107
-15	88	5280	88	4310	88	4010	88	3720	88	3450	101	109	-15	88	5250	88	4300	88	4000	88	3720	88	3440	101	109
-10	87	5240	87	4280	87	3980	87	3690	87	3410	101	109	-10	87	5210	87	4260	87	3960	87	3670	87	3400	99	107
-5	87	5390	87	4340	87	4080	88	3840	88	3590	102	109	-5	85	5170	85	4210	85	3920	85	3630	85	3350	99	107
0	89	5670	88	4570	88	4300	89	4050	89	3790	102	109	0	85	5210	84	4190	85	3940	85	3700	86	3460	99	106
5	90	5970	89	4810	90	4540	90	4270	90	4000	102	109	5	86	5480	85	4400	86	4140	86	3890	87	3650	100	106
10	91	6270	90	5060	91	4770	91	4490	91	4210	103	108	10	87	5750	87	4630	88	4100	88	3840	89	3600	100	106
15	93	6590	90	5320	92	5020	92	4730	93	4440	103	108	15	89	6040	88	4860	88	4580	89	4310	89	4040	100	106
20	94	7010	93	5660	93	5340	94	5030	94	4730	103	108	20	90	6400	89	5160	90	4860	90	4570	90	4290	101	106
23	96	7320	94	5910	94	5580	95	5260	95	4950	104	108	25	92	6860	91	5530	91	5210	92	4910	92	4610	101	106
25	96	7540	95	6090	95	5750	95	5420	96	5100	104	108	27	93	7070	92	5690	92	5370	92	5060	93	4750	101	106
27	97	7770	96	6270	96	5920	96	5590	96	5260	104	108	30	95	7400	93	5960	93	5620	93	5300	94	4980	102	106
													32	96	7670	94	6170	94	5830	94	5490	95	5160	102	106

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT											
-35	92	5190	92	4260	92	3970	92	3690	92	3420	96	106	-35	92	5200	92	4270	92	3980	92	3700	92	3430	95	106
-30	92	5240	92	4300	92	4010	92	3720	92	3450	96	106	-30	92	5240	92	4310	92	4020	92	3740	92	3470	95	105
-25	91	5280	91	4340	91	4040	91	3760	91	3480	95	105	-25	91	5280	91	4350	91	4050	91	3770	91	3500	94	105
-20	90	5280	90	4330	90	4040	90	3750	90	3480	95	105	-20	90	5280	90	4340	90	4040	90	3760	90	3490	94	104
-15	89	5240	89	4290	89	4000	89	3710	89	3440	95	105	-15	89	5230	89	4290	89	4000	89	3720	89	3440	93	103
-10	87	5190	87	4250	87	3950	87	3670	87	3390	96	104	-10	87	5180	87	4240	87	3950	87	3670	87	3400	93	102
-5	86	5140	86	4200	86	3900	86	3620	86	3340	96	104	-5	86	5120	86	4190	86	3900	86	3610	86	3340	93	102
0	84	5100	84	4150	84	3860	84	3570	84	3300	97	104	0	84	5070	84	4140	84	3850	84	3560	84	3290	94	102
5	83	5060	83	4110	83	3820	83	3540	83	3320	97	104	5	83	5030	83	4090	83	3800	83	3520	83	3250	94	102
10	83	5260	83	4220	83	3970	84	3720	84	3490	97	104	10	81	4990	81	4050	81	3760	81	3480	81	3210	94	102
15	85	5520	84	4430	84	4170	85	3920	85	3670	97	104	15	81	5030	80	4030	81	3780	81	3540	82	3310	95	101
20	86	5840	85	4700	86	4420	86	4150	87	3890	98	104	20	82	5320	82	4260	82	4000	82	3750	83	3510	95	101
25	88	6240	87	5010	87	4720	88	4440	88	4160	98	103	25	84	5670	83	4540	84	4270	84	4010	84	3750	95	101
30	90	6700	89	5380	89	5070	90	4770	90	4480	99	103	30	86	6060	85	4860	85	4570	86	4290	86	4020	96	101
32	91	6940	90	5570	90	5250	90	4940	91	4640	99	103	35	89	6620	87	5300	87	4990	88	4690	88	4390	96	101
35	93	7350	91	5900	92	5560	92	5230	92	4920	99	103													

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT											
-35	92	5220	92	4300	92	4010	92	3730	92	3460	94	106	-35	92	5250	92	4330	92	4040	92	3770	92	3500	93	106
-30	92	5260	92	4330	92	4040	92	3760	92	3490	94	105	-30	92	5290	92	4360	92	4070	92	3790	92	3520	93	105
-25	91	5300	91	4360	91	4070	91	3790	91	3520	94	105	-25	91	5320	91	4390	91	4100	91	3820	91	3550	93	105
-20	90	5280	90	4350	90	4060	90	3780	90	3500	93	104	-20	90	5310	90	4380	90	4090	90	3810	90	3530	92	104
-15	89	5230	89	4300	89	4010	89	3730	89	3460	92	102	-15	89	5250	89	4320	89	4030	89	3750	89	3480	91	102
-10	87	5180	87	4250	87	3960	87	3680	87	3410	91	101	-10	87	5190	87	4260	87	3970	87	3690	87	3420	90	101
-5	86	5110	86	4190	86	3900	86	3620	86	3350	90	100	-5	86	5120	86	4200	86	3910	86	3630	86	3360	89	99
0	84	5060	84	4130	84	3840	84	3560	84	3290	91	99	0	84	5050	84	4130	84	3850	84	3570	84	3300	88	97
5	83	5010	83	4080	83	3790	83	3510	83	3250	91	99	5	83	5000	83	4080	83	3790	83	3520	83	3250	88	97
10	81	4960	81	4040	81	3750	81	3470	81	3200	91	99	10	81	4940	81	4030	81	3740	81	3470	81	3200	88	97
15	80	4920	80	3990	80	3700	80	3430	80	3160	92	99	15	80	4890	80	3980	80	3690	80	3420	80	3150	88	96
20	78	4850	78	3930	78	3640	79	3380	79	3150	92	99	20	78	4820	78	3910	78	3630	78	3350	78	3090	89	96
25	80	5130	79	4090	80	3840	80	3600	81	3360	92	99	25	77	4740	77	3820	77	3540	77	3270	77	3010	89	96
30	82	5480	81	4370	81	4110	82	3850	82	3600	93	98	30	77	4920	77	3910	77	3670	78	3430	78	3200	90	96
35	84	5940	83	4740	83	4450	84	4180	84	3910	93	98	35	80	5330	79	4240	79	3980	80	3720	80	3470	90	96

Figure 7-6 (Sheet 20)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
10,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 139 KIAS							WEIGHT = 12200 LBS							VENR = 138 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS			30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS		FT
-35	92	5570	92	4500	92	4230	93	3980	93	3730	108	115	-35	91	5430	91	4420	91	4120	92	3870	92	3630	107	114		
-30	93	5750	92	4650	93	4380	93	4120	94	3870	108	115	-30	92	5600	91	4530	91	4270	92	4010	93	3760	107	114		
-25	93	5940	93	4810	93	4540	94	4270	94	4010	108	115	-25	92	5780	91	4680	92	4410	93	4150	93	3900	107	114		
-20	95	6230	94	5050	94	4770	95	4490	95	4220	108	115	-20	94	6070	93	4920	93	4640	94	4370	94	4100	107	114		
-15	96	6540	95	5310	95	5010	96	4730	96	4440	109	115	-15	95	6370	94	5170	94	4880	95	4600	95	4320	108	114		
-10	97	6880	96	5590	97	5280	97	4980	97	4690	109	115	-10	96	6700	95	5440	95	5140	96	4840	96	4550	108	114		
-5	99	7280	98	5910	98	5590	98	5270	99	4970	109	115	-5	98	7080	96	5750	97	5430	97	5120	98	4820	108	114		
0	101	7700	99	6260	99	5920	100	5590	100	5270	110	115	0	99	7490	98	6080	98	5750	98	5430	99	5110	109	114		
1	101	7790	99	6330	100	5990	100	5660	100	5330	110	115	3	100	7740	98	6290	99	5950	99	5620	100	5300	109	114		
3	101	8100	100	6480	100	6130	100	5790	101	5460	110	115	5	101	7930	99	6440	99	6090	100	5750	100	5420	109	114		
													6	101	8050	99	6510	100	6160	100	5820	100	5490	109	114		

WEIGHT = 12000 LBS							VENR = 137 KIAS							WEIGHT = 11800 LBS							VENR = 135 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS			30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS		FT
-35	91	5390	91	4410	91	4100	91	3810	91	3520	106	114	-35	91	5380	91	4400	91	4100	91	3800	91	3520	105	113		
-30	90	5440	90	4440	90	4140	91	3890	91	3640	106	113	-30	90	5420	90	4430	90	4120	90	3830	90	3540	105	113		
-25	91	5610	90	4540	91	4280	91	4020	92	3770	106	113	-25	89	5450	89	4460	89	4150	90	3900	90	3650	105	113		
-20	92	5890	91	4770	92	4490	92	4230	93	3970	106	113	-20	91	5710	90	4620	90	4350	91	4090	91	3840	105	112		
-15	93	6190	92	5010	93	4730	93	4450	94	4180	107	113	-15	92	6000	91	4850	92	4580	92	4310	93	4050	106	112		
-10	95	6500	94	5270	94	4970	95	4690	95	4410	107	113	-10	93	6300	92	5110	93	4820	93	4540	94	4260	106	112		
-5	96	6860	95	5570	96	5260	96	4950	96	4660	107	113	-5	95	6640	94	5390	94	5090	94	4790	95	4510	106	112		
0	98	7240	96	5880	97	5560	97	5240	97	4930	108	113	0	96	7010	95	5680	95	5370	96	5060	96	4760	107	112		
5	99	7660	98	6220	98	5880	98	5550	99	5230	108	113	5	98	7410	96	6010	97	5680	97	5360	97	5050	107	112		
6	100	7750	98	6290	98	5950	99	5620	99	5290	108	113	8	99	7650	97	6210	97	5870	98	5540	98	5220	107	112		
8	100	7920	98	6430	99	6080	99	5750	99	5420	108	113	10	99	7820	97	6350	98	6010	98	5670	98	5340	107	112		
													11	99	7910	98	6420	98	6070	98	5740	99	5410	107	112		

WEIGHT = 11600 LBS							VENR = 134 KIAS							WEIGHT = 11400 LBS							VENR = 133 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			20 KTS	30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS			30 KTS	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS		
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS		FT
-35	91	5370	91	4390	91	4090	91	3800	91	3510	104	112	-35	91	5360	91	4390	91	4090	91	3790	91	3510	103	111		
-30	90	5400	90	4420	90	4120	90	3820	90	3540	104	112	-30	90	5390	90	4420	90	4110	90	3820	90	3530	103	111		
-25	89	5440	89	4450	89	4140	89	3850	89	3560	104	112	-25	89	5430	89	4440	89	4140	89	3840	89	3550	103	111		
-20	89	5530	88	4480	89	4210	90	3960	90	3710	104	112	-20	88	5400	88	4420	88	4110	88	3830	89	3590	103	111		
-15	90	5810	90	4700	90	4430	91	4170	91	3910	105	111	-15	89	5630	88	4550	89	4280	89	4030	90	3780	104	111		
-10	92	6110	91	4940	91	4660	92	4390	92	4120	105	111	-10	90	5910	89	4780	90	4510	90	4240	91	3980	104	110		
-5	93	6430	92	5210	93	4920	93	4630	94	4350	105	111	-5	92	6230	91	5050	91	4760	92	4480	92	4200	104	110		
0	95	6780	93	5500	94	5190	94	4890	95	4600	106	111	0	93	6560	92	5320	92	5020	93	4720	93	4440	105	110		
5	96	7160	95	5810	95	5480	95	5170	96	4870	106	111	5	95	6920	93	5600	94	5290	94	4990	94	4690	105	110		
10	98	7560	96	6130	96	5790	97	5470	97	5150	106	111	10	96	7300	95	5920	95	5590	95	5270	96	4960	105	110		
11	98	7640	96	6200	97	5860	97	5530	97	5210	106	111	14	97	7630	96	6180	96	5850	96	5520	97	5190	105	110		
14	99	7900	97	6410	97	6060	98	5720	98	5390	107	111	15	97	7710	96	6250	96	5910	97	5580	97	5250	106	110		
													18	99	8030	97	6510	97	6160	97	5810	98	5480	106	110		

Figure 7-6 (Sheet 21)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
10,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS									
		ZERO WIND		HEADWINDS							ZERO WIND		HEADWINDS				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-35	91 5340	91 4380	91 4080	91 3790	91 3510	101	109	-35	91 5330	91 4370	91 4070	91 3780	91 3510	101	107		
-30	90 5370	90 4400	90 4100	90 3810	90 3530	101	109	-30	90 5360	90 4400	90 4100	90 3810	90 3530	101	107		
-25	90 5400	90 4430	90 4130	90 3830	90 3550	101	109	-25	90 5380	90 4420	90 4120	90 3820	90 3540	101	107		
-20	88 5380	88 4400	88 4090	88 3800	88 3520	101	109	-20	88 5350	88 4380	88 4080	88 3790	88 3510	101	107		
-15	87 5340	87 4370	87 4060	87 3770	87 3530	101	109	-15	87 5310	87 4350	87 4040	87 3750	87 3470	99	107		
-10	87 5540	87 4470	87 4210	88 3960	88 3710	102	109	-10	85 5280	85 4310	85 4010	85 3710	85 3430	99	107		
-5	89 5840	88 4710	88 4440	89 4180	89 3920	102	109	-5	85 5360	84 4320	85 4060	85 3820	86 3570	99	106		
0	90 6150	89 4970	90 4680	90 4410	91 4130	102	108	0	86 5640	86 4550	86 4280	87 4020	87 3770	100	106		
5	92 6470	90 5230	91 4930	91 4640	92 4360	103	108	5	88 5940	87 4790	87 4510	88 4240	88 3980	100	106		
10	93 6800	92 5500	92 5190	92 4890	93 4600	103	108	10	89 6230	88 5030	88 4740	89 4460	89 4190	100	106		
15	94 7180	93 5810	93 5490	94 5170	94 4870	103	108	15	90 6560	89 5290	89 4990	90 4700	90 4410	101	106		
18	95 7470	94 6040	94 5710	94 5390	95 5070	104	108	20	92 6990	91 5640	91 5330	91 5020	92 4720	101	106		
20	96 7680	94 6210	95 5870	95 5540	95 5210	104	108	23	93 7280	92 5880	92 5550	92 5230	93 4920	101	106		
23	97 8010	96 6480	96 6120	96 5780	96 5440	104	108	25	94 7490	92 6050	93 5710	93 5380	93 5060	102	106		
								28	95 7830	93 6320	94 5970	94 5630	94 5290	102	106		

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS									
		ZERO WIND		HEADWINDS							ZERO WIND		HEADWINDS				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-35	91 5320	91 4370	91 4070	91 3790	91 3510	95	105	-35	91 5320	91 4380	91 4090	91 3800	91 3520	95	105		
-30	90 5350	90 4390	90 4100	90 3810	90 3530	95	105	-30	91 5350	91 4400	91 4100	91 3820	91 3540	94	104		
-25	90 5370	90 4410	90 4110	90 3820	90 3550	95	105	-25	90 5370	90 4420	90 4120	90 3830	90 3550	94	104		
-20	88 5330	88 4370	88 4080	88 3790	88 3510	96	105	-20	88 5320	88 4370	88 4080	88 3790	88 3510	93	102		
-15	87 5290	87 4330	87 4030	87 3740	87 3460	96	104	-15	87 5280	87 4330	87 4030	87 3740	87 3470	93	102		
-10	85 5250	85 4290	85 3990	85 3700	85 3420	96	104	-10	85 5230	85 4280	85 3980	85 3700	85 3420	93	102		
-5	84 5200	84 4240	84 3940	84 3650	84 3380	97	104	-5	84 5180	84 4230	84 3930	84 3640	84 3370	94	102		
0	82 5170	82 4200	82 3900	83 3660	83 3420	97	104	0	82 5130	82 4180	82 3880	82 3600	82 3320	94	102		
5	84 5430	83 4360	84 4100	84 3850	85 3610	97	104	5	81 5090	81 4130	81 3840	81 3550	81 3280	94	102		
10	85 5700	84 4580	85 4320	85 4050	86 3800	98	104	10	81 5190	80 4160	81 3910	81 3670	82 3430	95	101		
15	86 5980	85 4820	86 4540	86 4270	87 4000	98	104	15	82 5450	81 4370	82 4110	82 3860	83 3610	95	101		
20	88 6360	87 5120	87 4830	88 4540	88 4260	98	103	20	84 5780	83 4640	83 4370	84 4100	84 3840	95	101		
25	90 6790	88 5470	89 5160	89 4850	90 4560	99	103	25	86 6150	84 4940	85 4650	85 4370	86 4100	96	101		
28	91 7080	89 5710	90 5380	90 5070	90 4760	99	103	30	88 6620	86 5310	87 5000	87 4700	87 4410	96	101		
30	92 7340	90 5910	91 5570	91 5250	91 4930	99	103	32	89 6870	87 5510	88 5190	88 4880	88 4580	96	101		
32	93 7630	91 6130	92 5790	92 5450	92 5130	99	103	33	89 7000	88 5620	88 5290	88 4980	89 4670	97	101		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS									
		ZERO WIND		HEADWINDS							ZERO WIND		HEADWINDS				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR	V2 KIAS		
-35	91 5340	91 4400	91 4110	91 3820	91 3550	94	105	-35	92 5370	92 4430	92 4140	92 3850	92 3580	93	105		
-30	91 5360	91 4420	91 4120	91 3840	91 3560	93	104	-30	91 5380	91 4440	91 4150	91 3870	91 3590	92	104		
-25	90 5380	90 4430	90 4130	90 3850	90 3570	93	103	-25	90 5400	90 4450	90 4160	90 3870	90 3600	92	103		
-20	88 5330	88 4380	88 4090	88 3800	88 3530	92	102	-20	89 5340	89 4400	89 4110	89 3820	89 3550	91	102		
-15	87 5270	87 4330	87 4030	87 3750	87 3470	91	101	-15	87 5280	87 4340	87 4050	87 3770	87 3490	90	100		
-10	85 5220	85 4280	85 3980	85 3700	85 3420	90	99	-10	86 5220	86 4280	86 3990	86 3710	86 3440	89	99		
-5	84 5160	84 4220	84 3920	84 3640	84 3370	91	99	-5	84 5150	84 4220	84 3930	84 3650	84 3380	88	97		
0	82 5100	82 4170	82 3870	82 3590	82 3320	91	99	0	83 5090	83 4160	83 3870	83 3590	83 3320	88	97		
5	81 5060	81 4120	81 3820	81 3540	81 3270	91	99	5	81 5040	81 4110	81 3820	81 3540	81 3270	88	96		
10	80 5020	80 4080	80 3780	80 3500	80 3230	92	99	10	80 4990	80 4060	80 3770	80 3490	80 3220	88	96		
15	78 4980	78 4030	78 3740	78 3470	79 3240	92	99	15	78 4940	78 4020	78 3730	78 3450	78 3180	89	96		
20	80 5230	79 4180	79 3930	80 3680	80 3450	92	99	20	77 4870	77 3940	77 3650	77 3380	77 3110	89	96		
25	81 5560	80 4450	81 4180	81 3920	82 3670	93	98	25	77 4990	76 3980	77 3740	77 3500	78 3270	90	96		
30	83 5950	82 4770	83 4480	83 4210	83 3940	93	98	30	79 5340	78 4260	78 4000	79 3750	79 3500	90	96		
33	85 6270	83 5020	84 4720	84 4430	85 4150	93	98	33	80 5610	79 4480	80 4200	80 3940	80 3680	90	96		

Figure 7-6 (Sheet 22)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
11,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS							
VENR = 130 KIAS								VENR = 127 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	89 5490	89 4500	89 4190	89 3890	89 3600	101 109	-35	89 5470	89 4480	89 4180	89 3880	89 3590	98 107		
-30	89 5530	89 4530	89 4220	89 3920	89 3620	101 109	-30	89 5500	89 4510	89 4200	89 3910	89 3620	98 107		
-25	88 5540	88 4540	88 4220	88 3920	88 3630	101 109	-25	88 5510	88 4520	88 4210	88 3910	88 3620	99 107		
-20	86 5510	86 4510	86 4190	87 3940	87 3690	102 109	-20	86 5480	86 4480	86 4170	86 3870	86 3580	99 107		
-15	88 5780	87 4670	87 4400	88 4140	88 3890	102 109	-15	85 5440	85 4450	85 4140	85 3840	85 3550	99 107		
-10	89 6080	88 4920	89 4640	89 4360	90 4100	102 109	-10	85 5580	84 4500	85 4240	85 3980	86 3730	99 106		
-5	90 6400	89 5190	90 4890	90 4600	91 4320	102 108	-5	86 5880	86 4750	86 4470	87 4200	87 3940	100 106		
0	92 6750	91 5460	91 5160	91 4860	92 4570	103 108	0	88 6190	87 5000	87 4720	88 4440	88 4170	100 106		
5	93 7110	92 5760	92 5440	93 5130	93 4820	103 108	5	89 6510	88 5260	89 4960	89 4670	89 4390	100 106		
10	94 7500	93 6090	93 5750	94 5420	94 5110	103 108	10	90 6850	89 5540	90 5230	90 4920	90 4630	101 106		
13	95 7760	94 6290	94 5950	95 5610	95 5290	104 108	15	92 7250	91 5870	91 5540	91 5220	92 4910	101 106		
15	96 7960	94 6460	95 6100	95 5760	95 5430	104 108	19	93 7630	92 6180	92 5830	93 5500	93 5180	101 106		
19	98 8400	96 6810	96 6440	96 6080	97 5730	104 108	20	94 7740	92 6260	92 5910	93 5580	93 5250	101 106		
							25	96 8230	94 6700	94 6330	94 5980	95 5630	102 106		

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS							
VENR = 124 KIAS								VENR = 121 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	90 5450	90 4480	90 4170	90 3880	90 3590	95 105	-35	90 5450	90 4480	90 4180	90 3890	90 3600	94 103		
-30	89 5490	89 4510	89 4200	89 3900	89 3620	95 105	-30	89 5480	89 4510	89 4200	89 3910	89 3620	93 103		
-25	88 5490	88 4510	88 4200	88 3900	88 3620	96 105	-25	88 5480	88 4510	88 4200	88 3910	88 3620	93 102		
-20	86 5450	86 4470	86 4160	86 3860	86 3580	96 104	-20	87 5440	87 4460	87 4160	87 3860	87 3580	93 102		
-15	85 5410	85 4430	85 4120	85 3820	85 3540	96 104	-15	85 5390	85 4410	85 4110	85 3820	85 3530	93 102		
-10	84 5370	84 4390	84 4080	84 3780	84 3500	97 104	-10	84 5350	84 4370	84 4060	84 3770	84 3490	94 102		
-5	82 5380	82 4340	82 4080	83 3820	84 3580	97 104	-5	82 5300	82 4320	82 4020	82 3720	82 3440	94 102		
0	84 5660	83 4560	84 4290	84 4030	85 3780	97 104	0	81 5250	81 4280	81 3970	81 3680	81 3420	94 101		
5	85 5950	84 4800	85 4520	85 4250	86 3980	98 104	5	81 5420	80 4350	81 4090	82 3840	82 3600	95 101		
10	86 6250	85 5040	86 4750	86 4470	87 4190	98 104	10	82 5690	82 4570	82 4300	83 4040	83 3790	95 101		
15	88 6600	87 5320	87 5020	88 4720	88 4440	98 103	15	84 6000	83 4830	83 4550	84 4270	84 4000	95 101		
20	90 7010	88 5660	89 5340	89 5030	89 4730	99 103	20	85 6350	84 5120	85 4820	85 4530	86 4250	96 101		
25	91 7500	90 6050	90 5710	90 5380	91 5060	99 103	25	87 6760	86 5440	86 5130	87 4830	87 4530	96 101		
29	93 8030	92 6470	92 6110	92 5760	92 5420	100 103	29	89 7230	87 5810	88 5480	88 5160	88 4850	97 101		
							30	90 7370	88 5920	88 5590	89 5260	89 4940	97 101		
							31	90 7510	88 6040	89 5700	89 5360	89 5040	97 101		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
VENR = 117 KIAS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	90 5460	90 4490	90 4190	90 3900	90 3620	93 103	-35	90 5480	90 4520	90 4220	90 3930	90 3650	92 103		
-30	89 5480	89 4520	89 4210	89 3920	89 3640	92 103	-30	89 5500	89 4540	89 4240	89 3950	89 3660	91 102		
-25	88 5480	88 4510	88 4210	88 3920	88 3630	92 102	-25	88 5490	88 4530	88 4230	88 3940	88 3650	91 101		
-20	87 5430	87 4460	87 4160	87 3870	87 3580	91 100	-20	87 5430	87 4470	87 4170	87 3880	87 3600	90 100		
-15	85 5380	85 4410	85 4110	85 3820	85 3540	90 99	-15	85 5380	85 4420	85 4120	85 3830	85 3550	89 99		
-10	84 5330	84 4360	84 4060	84 3770	84 3490	91 99	-10	84 5320	84 4360	84 4060	84 3770	84 3490	88 97		
-5	82 5270	82 4310	82 4000	82 3710	82 3430	91 99	-5	82 5260	82 4300	82 4000	82 3710	82 3440	88 97		
0	81 5220	81 4260	81 3960	81 3670	81 3390	91 99	0	81 5200	81 4250	81 3950	81 3660	81 3380	88 96		
5	79 5180	79 4210	79 3910	79 3620	79 3340	92 99	5	79 5150	79 4200	79 3900	79 3610	79 3340	88 96		
10	78 5150	78 4170	78 3880	79 3640	79 3400	92 99	10	78 5110	78 4150	78 3850	78 3570	78 3290	89 96		
15	80 5420	79 4350	79 4090	80 3830	80 3590	92 99	15	77 5050	77 4100	77 3800	77 3510	77 3240	89 96		
20	81 5750	80 4610	81 4340	81 4070	82 3810	93 99	20	77 5160	76 4120	77 3870	77 3630	78 3390	89 96		
25	83 6100	82 4890	82 4600	83 4320	83 4050	93 98	25	78 5470	78 4380	78 4110	78 3850	79 3610	90 96		
30	85 6600	84 5290	84 4980	84 4680	85 4390	94 98	30	80 5900	79 4720	80 4430	80 4160	81 3890	90 96		
31	86 6730	84 5390	85 5080	85 4770	85 4480	94 98	31	81 6010	80 4800	80 4510	81 4230	81 3960	90 96		

Figure 7-6 (Sheet 24)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
12,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS													
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2										
	KIAS	FT	FT	KIAS	FT	KIAS	KIAS		KIAS	FT	FT	KIAS	FT	KIAS	KIAS										
-35	95	6630	94	5380	95	5080	95	4790	96	4500	108	115	-35	94	6450	93	5240	93	4940	94	4650	94	4370	108	114
-30	95	6880	95	5560	95	5250	96	4950	96	4650	109	115	-30	94	6660	93	5410	94	5110	94	4810	95	4530	108	114
-25	97	7150	96	5820	96	5500	96	5190	97	4880	109	115	-25	95	6960	94	5660	95	5350	95	5040	96	4750	108	114
-20	98	7520	97	6130	97	5790	98	5470	98	5150	109	115	-20	97	7320	96	5960	96	5630	96	5320	97	5010	108	114
-15	99	7990	98	6460	98	6120	99	5780	99	5450	109	115	-15	98	7710	97	6280	97	5940	97	5610	98	5280	108	114
-11	99	8490	99	6760	99	6400	100	6050	100	5710	110	115	-10	100	8150	98	6640	98	6280	99	5940	99	5600	109	114
-10	99	8660	99	6840	100	6470	100	6120	100	5770	110	115	-9	100	8290	98	6720	99	6360	99	6010	99	5670	109	114
-9	99	8830	100	6920	100	6550	100	6190	101	5840	110	115	-6	99	8800	99	6960	99	6590	100	6230	100	5880	109	114

WEIGHT = 12000 LBS								WEIGHT = 11800 LBS																	
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS													
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2										
	KIAS	FT	FT	KIAS	FT	KIAS	KIAS		KIAS	FT	FT	KIAS	FT	KIAS	KIAS										
-35	92	6260	92	5070	92	4780	93	4500	93	4230	107	113	-35	91	6070	90	4910	91	4630	91	4360	92	4090	105	112
-30	93	6460	92	5240	93	4950	93	4660	94	4380	107	113	-30	92	6260	91	5070	91	4790	92	4510	92	4240	106	112
-25	94	6750	93	5490	94	5180	94	4880	94	4590	107	113	-25	93	6550	92	5310	92	5020	93	4730	93	4440	106	112
-20	95	7100	94	5770	95	5450	95	5140	95	4840	107	113	-20	94	6880	93	5590	93	5280	94	4980	94	4680	106	112
-15	97	7460	95	6070	96	5740	96	5420	97	5100	107	113	-15	95	7230	94	5880	94	5560	95	5240	95	4930	106	112
-10	98	7880	97	6420	97	6070	97	5730	98	5400	108	113	-10	96	7620	95	6200	96	5860	96	5530	96	5210	107	112
-6	99	8250	98	6720	98	6360	98	6010	99	5670	108	113	-5	98	8070	97	6570	97	6220	97	5870	98	5540	107	112
-5	100	8350	98	6800	98	6440	99	6090	99	5740	108	113	-4	98	8170	97	6650	97	6290	98	5940	98	5600	107	112
-4	100	8500	98	6890	99	6520	99	6160	99	5810	108	113	0	100	8660	98	6970	98	6600	99	6230	99	5880	108	112

WEIGHT = 11600 LBS								WEIGHT = 11400 LBS																	
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS													
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2										
	KIAS	FT	FT	KIAS	FT	KIAS	KIAS		KIAS	FT	FT	KIAS	FT	KIAS	KIAS										
-35	90	5880	89	4760	89	4480	90	4220	90	3960	104	112	-35	88	5700	88	4640	88	4340	89	4080	89	3820	103	111
-30	90	6060	89	4910	90	4630	90	4360	91	4090	105	112	-30	89	5880	88	4760	88	4480	89	4210	89	3960	104	111
-25	91	6340	90	5140	91	4850	91	4570	92	4290	105	111	-25	90	6140	89	4980	89	4690	90	4420	90	4150	104	111
-20	92	6670	91	5410	92	5110	92	4820	93	4520	105	111	-20	91	6460	90	5240	91	4940	91	4650	91	4370	104	110
-15	94	7000	93	5690	93	5370	93	5070	94	4770	105	111	-15	92	6780	91	5500	92	5190	92	4890	92	4600	104	110
-10	95	7370	94	5990	94	5660	95	5340	95	5030	106	111	-10	93	7130	92	5790	93	5470	93	5160	94	4860	105	110
-5	96	7800	95	6340	95	6000	96	5660	96	5340	106	111	-5	95	7530	94	6120	94	5790	94	5460	95	5140	105	110
0	98	8260	96	6720	97	6360	97	6010	97	5670	106	111	0	96	7980	95	6490	95	6130	96	5790	96	5460	105	110
2	99	8460	97	6880	97	6510	98	6150	98	5810	107	111	2	97	8160	95	6640	96	6280	96	5930	97	5590	105	110
													5	98	8440	96	6860	97	6500	97	6140	97	5790	106	110
													7	99	8640	97	7020	97	6650	97	6280	98	5930	106	110

Figure 7-6 (Sheet 25)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
12,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS							WEIGHT = 10500 LBS						
VENR = 131 KIAS							VENR = 127 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
-35	88 5640	88 4620	88 4300	88 3990	88 3690	101 109	-35	88 5610	88 4600	88 4280	88 3980	88 3680	99 107
-30	87 5680	87 4660	87 4330	87 4030	87 3730	101 109	-30	87 5650	87 4640	87 4320	87 4010	87 3720	99 107
-25	87 5750	86 4650	87 4380	87 4120	88 3870	102 109	-25	86 5640	86 4620	86 4300	86 3990	86 3700	99 107
-20	88 6040	87 4890	88 4610	88 4340	89 4070	102 109	-20	85 5610	85 4590	85 4270	85 3970	85 3720	99 106
-15	89 6350	88 5140	89 4850	89 4570	90 4290	102 109	-15	85 5830	85 4710	85 4440	86 4170	86 3910	100 106
-10	90 6670	89 5410	90 5110	90 4810	91 4520	102 108	-10	87 6120	86 4950	86 4670	87 4390	87 4120	100 106
-5	92 7030	91 5710	91 5390	92 5080	92 4780	103 108	-5	88 6450	87 5220	88 4930	88 4640	88 4350	100 106
0	93 7420	92 6030	92 5690	93 5370	93 5060	103 108	0	89 6790	88 5500	89 5190	89 4890	90 4600	100 106
5	95 7850	93 6370	94 6030	94 5690	94 5360	103 108	5	91 7160	89 5800	90 5470	90 5160	91 4850	101 106
7	95 8030	94 6520	94 6160	94 5820	95 5480	104 108	10	92 7560	91 6130	91 5790	91 5460	92 5140	101 106
10	96 8310	95 6750	95 6380	95 6030	96 5680	104 108	14	93 7930	92 6430	92 6070	92 5730	93 5400	101 106
14	98 8720	96 7090	96 6710	96 6340	97 5980	104 108	15	94 8030	92 6510	92 6150	93 5800	93 5470	101 106
							20	95 8560	94 6930	94 6560	94 6190	94 5840	102 106

WEIGHT = 10000 LBS							WEIGHT = 9500 LBS						
VENR = 124 KIAS							VENR = 121 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
-35	88 5590	88 4590	88 4280	88 3970	88 3680	96 105	-35	88 5580	88 4590	88 4270	88 3970	88 3690	93 102
-30	87 5630	87 4620	87 4310	87 4000	87 3710	96 104	-30	87 5620	87 4620	87 4300	87 4000	87 3710	93 102
-25	86 5610	86 4600	86 4290	86 3980	86 3690	96 104	-25	86 5590	86 4590	86 4280	86 3980	86 3690	93 102
-20	85 5580	85 4560	85 4250	85 3940	85 3650	96 104	-20	85 5550	85 4550	85 4240	85 3940	85 3640	93 102
-15	83 5540	83 4530	83 4210	83 3910	83 3610	97 104	-15	83 5510	83 4510	83 4200	83 3900	83 3600	94 102
-10	83 5600	82 4520	83 4250	83 3990	84 3740	97 104	-10	82 5470	82 4470	82 4150	82 3850	82 3560	94 102
-5	84 5900	83 4760	84 4480	84 4210	85 3950	97 104	-5	80 5420	80 4420	80 4110	81 3820	81 3580	94 101
0	85 6210	85 5020	85 4730	85 4450	86 4170	98 104	0	81 5650	81 4550	81 4280	82 4020	82 3770	95 101
5	87 6530	86 5280	86 4970	87 4680	87 4400	98 104	5	83 5940	82 4790	82 4510	83 4240	83 3970	95 101
10	88 6870	87 5560	87 5240	88 4940	88 4640	98 103	10	84 6240	83 5040	83 4750	84 4460	84 4180	95 101
15	90 7280	88 5890	89 5560	89 5230	89 4920	99 103	15	85 6590	84 5320	85 5010	85 4720	85 4430	96 101
20	91 7740	90 6260	90 5910	90 5580	91 5250	99 103	20	87 6990	86 5640	86 5320	86 5000	87 4700	96 101
25	93 8280	91 6700	92 6330	92 5970	92 5620	99 103	25	89 7460	87 6020	87 5680	88 5350	88 5030	96 101
26	94 8450	92 6830	92 6450	92 6090	93 5740	100 103	26	89 7600	88 6130	88 5790	88 5450	89 5130	97 101
							29	91 8060	89 6500	89 6140	90 5780	90 5440	97 101

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
VENR = 117 KIAS							VENR = 115 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
-35	88 5580	88 4590	88 4280	88 3990	88 3700	92 102	-35	88 5590	88 4610	88 4300	88 4010	88 3720	91 101
-30	87 5610	87 4620	87 4310	87 4010	87 3720	91 101	-30	88 5620	88 4640	88 4330	88 4030	88 3740	90 101
-25	86 5580	86 4590	86 4280	86 3980	86 3690	90 100	-25	86 5590	86 4600	86 4290	86 4000	86 3710	89 100
-20	85 5540	85 4540	85 4230	85 3930	85 3650	90 99	-20	85 5530	85 4550	85 4240	85 3940	85 3660	89 98
-15	83 5490	83 4500	83 4190	83 3890	83 3600	91 99	-15	83 5480	83 4500	83 4190	83 3890	83 3610	88 97
-10	82 5440	82 4450	82 4140	82 3840	82 3550	91 99	-10	82 5430	82 4440	82 4140	82 3840	82 3560	88 97
-5	81 5390	81 4400	81 4090	81 3790	81 3500	91 99	-5	81 5370	81 4390	81 4080	81 3780	81 3500	88 96
0	79 5340	79 4350	79 4040	79 3740	79 3460	92 99	0	79 5310	79 4330	79 4030	79 3730	79 3450	89 96
5	78 5380	78 4320	78 4060	79 3810	79 3560	92 99	5	78 5270	78 4290	78 3980	78 3690	78 3400	89 96
10	80 5650	79 4540	79 4270	80 4010	80 3750	92 99	10	77 5220	77 4240	77 3940	77 3640	77 3360	89 96
15	81 5960	80 4790	81 4510	81 4240	82 3970	93 99	15	77 5360	76 4290	77 4030	77 3780	78 3530	89 96
20	83 6300	82 5070	82 4770	82 4480	83 4200	93 98	20	78 5660	77 4530	78 4260	78 4000	79 3740	90 96
25	84 6690	83 5390	83 5070	84 4770	84 4480	93 98	25	80 6000	79 4810	79 4520	80 4250	80 3980	90 96
29	86 7210	85 5800	85 5470	86 5140	86 4830	94 98	29	82 6430	80 5150	81 4840	81 4550	82 4260	91 95

Figure 7-6 (Sheet 26)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
13,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
TAILWIND		ZERO WIND		HEADWINDS				VR V2	TAILWIND		ZERO WIND		HEADWINDS				VR V2								
10 KTS	V1 DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST		V1	DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST									
DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT								
-35	96	7230	95	5880	96	5560	96	5240	97	4940	109	115	-35	95	7040	94	5720	95	5410	95	5100	96	4800	108	114
-30	97	7470	96	6090	96	5760	97	5430	97	5120	109	115	-30	96	7270	95	5920	95	5600	96	5280	96	4970	108	114
-25	98	7870	97	6410	97	6070	98	5730	98	5400	109	115	-25	97	7650	96	6240	96	5900	97	5570	97	5250	108	114
-20	99	8430	98	6780	99	6420	99	6070	99	5720	109	115	-20	98	8070	97	6580	97	6230	98	5890	98	5550	109	114
-17	98	8920	99	7010	99	6630	100	6270	100	5920	110	115	-15	99	8690	98	6950	99	6580	99	6220	99	5870	109	114
-15	98	9250	100	7160	100	6780	100	6420	101	6060	110	115	-12	98	9190	99	7190	99	6810	100	6440	100	6080	109	114

WEIGHT = 12000 LBS								WEIGHT = 11800 LBS																	
TAILWIND		ZERO WIND		HEADWINDS				VR V2	TAILWIND		ZERO WIND		HEADWINDS				VR V2								
10 KTS	V1 DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST		V1	DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST									
DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT								
-35	94	6830	93	5550	93	5240	94	4940	94	4650	107	113	-35	92	6620	91	5370	92	5070	92	4780	93	4490	106	112
-30	94	7050	93	5740	94	5420	94	5110	95	4810	107	113	-30	93	6840	92	5560	92	5250	93	4950	93	4660	106	112
-25	96	7420	94	6040	95	5710	95	5390	96	5080	107	113	-25	94	7190	93	5850	94	5530	94	5210	94	4910	106	112
-20	97	7810	96	6370	96	6020	96	5690	97	5360	107	113	-20	95	7560	94	6160	95	5820	95	5500	95	5180	106	112
-15	98	8240	97	6720	97	6360	98	6010	98	5670	108	113	-15	97	7970	96	6490	96	6140	96	5800	97	5470	107	112
-12	99	8590	98	6950	98	6580	98	6220	99	5870	108	113	-10	98	8420	97	6860	97	6500	97	6140	98	5790	107	112
-10	99	8860	98	7110	98	6730	99	6360	99	6010	108	113	-9	99	8520	97	6950	97	6580	98	6220	98	5860	107	112
-9	99	9050	98	7190	99	6810	99	6440	99	6080	108	113	-7	99	8740	98	7120	98	6740	98	6370	99	6010	107	112

WEIGHT = 11600 LBS								WEIGHT = 11400 LBS																	
TAILWIND		ZERO WIND		HEADWINDS				VR V2	TAILWIND		ZERO WIND		HEADWINDS				VR V2								
10 KTS	V1 DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST		V1	DIST	V1	DIST	10 KTS	20 KTS	30 KTS	V1 DIST									
DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	DEG C	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT								
-35	91	6410	90	5200	91	4910	91	4620	92	4340	105	111	-35	89	6210	89	5030	89	4740	90	4460	90	4190	104	111
-30	91	6630	91	5380	91	5080	92	4790	92	4500	105	111	-30	90	6420	89	5210	90	4910	90	4630	91	4350	104	111
-25	93	6960	92	5660	92	5340	93	5040	93	4740	105	111	-25	91	6740	90	5480	91	5170	91	4870	92	4580	104	110
-20	94	7320	93	5960	93	5630	94	5310	94	5000	105	111	-20	93	7090	91	5760	92	5440	92	5130	93	4830	104	110
-15	95	7700	94	6270	94	5930	95	5600	95	5270	106	111	-15	94	7450	93	6060	93	5730	93	5410	94	5090	105	110
-10	97	8130	95	6630	96	6270	96	5920	96	5580	106	111	-10	95	7850	94	6390	94	6050	94	5710	95	5380	105	110
-7	98	8430	96	6870	96	6500	97	6140	97	5790	106	111	-5	97	8330	95	6780	95	6420	96	6070	96	5720	105	110
-5	98	8630	97	7030	97	6660	97	6290	98	5940	107	111	-4	97	8430	95	6860	96	6500	96	6140	96	5790	105	110
-4	99	8730	97	7120	97	6740	98	6370	98	6010	107	111	0	98	8830	97	7190	97	6810	97	6440	97	6080	106	110
									1	99	8940	97	7280	97	6890	97	6520	98	6150	98	6150	98	6150	106	110

Figure 7-6 (Sheet 27)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
13,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

INOPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	86 5820	86 4750	86 4430	87 4170	87 3910	102 109	-35	86 5770	86 4730	86 4400	86 4090	86 3790	99 107		
-30	87 6010	86 4870	87 4590	87 4310	88 4050	102 109	-30	86 5810	86 4760	86 4430	86 4120	86 3810	99 107		
-25	88 6310	87 5120	88 4830	88 4540	89 4270	102 109	-25	84 5800	84 4730	84 4420	85 4150	85 3890	99 106		
-20	90 6640	89 5390	89 5080	90 4790	90 4500	102 109	-20	86 6090	85 4930	85 4650	86 4370	86 4100	100 106		
-15	91 6970	90 5660	90 5340	91 5040	91 4740	103 108	-15	87 6400	86 5180	87 4890	87 4600	88 4320	100 106		
-10	92 7330	91 5960	91 5630	92 5310	92 5000	103 108	-10	88 6720	87 5450	88 5150	88 4840	89 4550	100 106		
-5	93 7750	92 6300	93 5960	93 5620	93 5300	103 108	-5	90 7090	88 5750	89 5430	89 5120	90 4810	100 106		
0	95 8210	93 6680	94 6320	94 5970	95 5620	104 108	0	91 7480	90 6070	90 5730	90 5410	91 5090	101 106		
1	95 8300	94 6750	94 6390	94 6030	95 5690	104 108	5	92 7900	91 6420	91 6070	92 5720	92 5390	101 106		
5	96 8690	95 7070	95 6690	95 6320	96 5960	104 108	8	93 8180	92 6640	92 6280	92 5930	93 5580	101 106		
8	97 9000	96 7320	96 6930	96 6550	96 6180	104 108	10	94 8370	92 6800	93 6430	93 6070	93 5720	101 106		
							15	95 8890	94 7220	94 6830	94 6450	94 6090	102 106		

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	86 5740	86 4710	86 4390	86 4080	86 3780	96 104	-35	86 5720	86 4700	86 4380	86 4070	86 3780	93 102		
-30	86 5770	86 4740	86 4420	86 4100	86 3800	96 104	-30	86 5750	86 4730	86 4410	86 4100	86 3800	93 102		
-25	84 5740	84 4700	84 4380	84 4070	84 3770	96 104	-25	84 5720	84 4690	84 4370	84 4060	84 3760	94 102		
-20	83 5710	83 4670	83 4340	83 4030	83 3730	97 104	-20	83 5680	83 4650	83 4330	83 4020	83 3720	94 102		
-15	83 5850	82 4720	83 4450	83 4180	84 3920	97 104	-15	82 5640	82 4610	82 4290	82 3980	82 3680	94 102		
-10	84 6140	83 4970	84 4680	84 4400	85 4130	97 104	-10	80 5600	80 4570	80 4250	81 3990	81 3730	94 101		
-5	86 6480	85 5240	85 4940	86 4650	86 4370	98 104	-5	82 5890	81 4750	81 4480	82 4210	82 3940	95 101		
0	87 6820	86 5520	86 5210	87 4900	87 4610	98 104	0	83 6210	82 5010	83 4720	83 4440	83 4160	95 101		
5	88 7180	87 5820	87 5490	88 5170	88 4860	98 103	5	84 6520	83 5270	84 4970	84 4670	84 4390	95 101		
10	90 7580	88 6140	89 5800	89 5470	89 5150	99 103	10	85 6870	84 5550	85 5240	85 4930	86 4630	96 101		
15	91 8040	90 6520	90 6160	90 5810	91 5470	99 103	15	87 7250	86 5870	86 5530	86 5210	87 4900	96 101		
20	93 8540	91 6920	91 6550	92 6180	92 5830	99 103	20	88 7700	87 6220	87 5880	88 5540	88 5210	96 101		
22	93 8760	92 7100	92 6720	92 6340	92 5980	100 103	22	89 7890	87 6380	88 6020	88 5680	88 5340	97 101		
							25	91 8330	89 6730	89 6360	89 6000	90 5640	97 101		
							26	91 8490	89 6860	90 6480	90 6120	90 5760	97 101		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
-35	87 5710	87 4700	87 4380	87 4080	87 3780	91 100	-35	87 5720	87 4710	87 4400	87 4090	87 3800	90 100		
-30	86 5740	86 4720	86 4410	86 4100	86 3800	90 100	-30	86 5740	86 4730	86 4420	86 4110	86 3820	89 99		
-25	84 5700	84 4680	84 4360	84 4050	84 3760	91 99	-25	85 5690	85 4680	85 4370	85 4060	85 3770	88 98		
-20	83 5650	83 4630	83 4320	83 4010	83 3710	91 99	-20	83 5640	83 4630	83 4310	83 4010	83 3720	88 97		
-15	82 5610	82 4590	82 4270	82 3960	82 3670	91 99	-15	82 5590	82 4580	82 4270	82 3960	82 3670	88 97		
-10	80 5570	80 4550	80 4230	80 3920	80 3630	91 99	-10	80 5540	80 4530	80 4220	80 3910	80 3620	88 96		
-5	79 5510	79 4490	79 4180	79 3870	79 3580	92 99	-5	79 5480	79 4470	79 4160	79 3860	79 3570	89 96		
0	79 5620	78 4520	79 4250	79 3990	80 3740	92 99	0	78 5430	78 4420	78 4110	78 3810	78 3520	89 96		
5	80 5900	79 4750	80 4470	80 4200	81 3940	92 99	5	76 5390	76 4380	76 4070	76 3770	76 3510	89 96		
10	81 6210	80 5000	81 4710	81 4430	82 4150	93 99	10	77 5580	76 4480	77 4210	77 3950	78 3690	90 96		
15	83 6540	82 5270	82 4970	82 4670	83 4380	93 98	15	78 5880	77 4720	78 4440	78 4170	79 3900	90 96		
20	84 6910	83 5570	83 5250	84 4940	84 4640	93 98	20	79 6200	79 4980	79 4690	79 4400	80 4120	90 96		
25	86 7450	85 6010	85 5670	85 5330	86 5010	94 98	25	81 6640	80 5340	81 5030	81 4720	81 4430	91 95		
26	87 7600	85 6120	85 5770	86 5440	86 5110	94 98	27	82 6890	81 5530	81 5210	82 4900	82 4600	91 95		
27	87 7750	86 6240	86 5890	86 5550	86 5210	94 98									

Figure 7-6 (Sheet 28)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
14,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - OFF

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							WEIGHT = 12200 LBS																			
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS									
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS												
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT												
-35	98	7900	97	6440	97	6090	97	5760	98	5430	109	115	-35	97	7690	95	6270	96	5930	96	5590	97	5270	108	114	
-30	99	8240	97	6730	98	6370	98	6020	99	5680	109	115	-30	98	8010	96	6540	97	6190	97	5840	97	5510	108	114	
-25	98	9090	99	7110	99	6730	99	6370	100	6010	110	115	-25	99	8490	97	6900	98	6540	98	6180	99	5830	109	114	
-24	98	9210	99	7190	99	6810	100	6440	100	6080	110	115	-21	98	9140	98	7220	99	6840	99	6470	99	6110	109	114	
-21	97	9740	100	7430	100	7050	100	6670	101	6300	110	115	-20	98	9320	99	7300	99	6910	99	6540	100	6180	109	114	
														-19	98	9490	99	7380	99	6990	100	6620	100	6250	109	114

WEIGHT = 12000 LBS							WEIGHT = 11800 LBS																			
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS									
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS												
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT												
-35	95	7450	94	6070	94	5740	95	5410	95	5100	107	113	-35	94	7220	93	5880	93	5550	94	5240	94	4930	106	112	
-30	96	7760	95	6330	95	5990	96	5650	96	5330	107	113	-30	95	7520	93	6130	94	5790	94	5470	95	5150	106	112	
-25	97	8180	96	6670	96	6320	97	5970	97	5630	108	113	-25	96	7910	95	6450	95	6100	95	5760	96	5430	107	112	
-20	99	8650	97	7050	98	6680	98	6310	98	5960	108	113	-20	97	8350	96	6810	96	6450	97	6090	97	5750	107	112	
-19	98	8820	97	7130	98	6750	98	6390	99	6030	108	113	-16	98	8720	97	7120	97	6740	97	6370	98	6010	107	112	
-16	98	9330	98	7370	99	6980	99	6610	99	6240	108	113	-15	99	8810	97	7200	97	6810	98	6440	98	6080	107	112	
														-13	98	9140	97	7360	98	6970	98	6590	98	6220	107	112

WEIGHT = 11600 LBS							WEIGHT = 11400 LBS																		
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS			FT	KIAS	FT	KIAS	FT											
-35	92	7000	91	5690	92	5370	92	5070	93	4770	105	111	-35	91	6770	90	5500	90	5200	91	4900	91	4600	104	110
-30	93	7280	92	5930	92	5600	93	5280	93	4970	105	111	-30	92	7050	91	5740	91	5420	92	5110	92	4800	104	110
-25	94	7660	93	6240	94	5900	94	5570	94	5250	106	111	-25	93	7410	92	6030	92	5700	93	5380	93	5070	104	110
-20	96	8070	94	6580	95	6220	95	5880	95	5540	106	111	-20	94	7800	93	6350	93	6010	94	5670	94	5340	105	110
-15	97	8510	96	6950	96	6570	96	6210	97	5860	106	111	-15	95	8220	94	6700	94	6340	95	5990	95	5650	105	110
-13	98	8700	96	7100	96	6720	97	6350	97	6000	106	111	-10	97	8700	95	7090	96	6720	96	6350	96	5990	105	110
-10	98	9010	97	7350	97	6970	97	6590	98	6220	107	111	-5	98	9230	97	7530	97	7130	97	6750	98	6370	106	110

Figure 7-6 (Sheet 29)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
14,000 FEET

CONDITIONS: WET RUNWAY
RUNWAY GRADIENT - ZERO
LANDING GEAR - DOWN
THRUST ATTENUATORS - AUTO

ANTI-ICE - OFF
SPEED BRAKES - RETRACT
INOPERATIVE ENGINE - WINDMILLING AFTER V1
OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 11000 LBS								WEIGHT = 10500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	88 6340	87 5140					88 4850	88 4560	89 4290		102 109	-35
-30	89 6600	88 5360	88 5060	89 4760	89 4480	102 109	-30	85 6060	84 4910	85 4620	85 4350	86 4080	99 106		
-25	90 6940	89 5640	89 5320	90 5020	90 4720	102 109	-25	86 6360	85 5160	86 4860	86 4580	87 4300	100 106		
-20	91 7290	90 5930	90 5600	91 5280	91 4970	103 108	-20	87 6690	86 5430	87 5120	87 4820	88 4530	100 106		
-15	92 7660	91 6240	91 5900	92 5560	92 5240	103 108	-15	88 7020	87 5700	88 5380	88 5070	89 4770	100 106		
-10	94 8090	92 6590	93 6230	93 5880	93 5550	103 108	-10	90 7390	89 6010	89 5680	89 5350	90 5040	100 106		
-5	95 8580	94 6990	94 6610	94 6250	95 5890	104 108	-5	91 7810	90 6350	90 6000	91 5660	91 5330	101 106		
0	97 9090	95 7410	95 7010	96 6630	96 6260	104 108	0	93 8260	91 6720	91 6360	92 6000	92 5660	101 106		
2	97 9310	96 7580	96 7180	96 6790	96 6410	104 108	2	93 8450	92 6880	92 6500	92 6140	93 5790	101 106		
							5	94 8750	92 7120	93 6740	93 6360	93 6000	102 106		
							9	95 9170	93 7460	94 7060	94 6670	94 6300	102 106		

WEIGHT = 10000 LBS								WEIGHT = 9500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	85 5890	85 4830					85 4500	85 4180	85 3880		96 104	-35
-30	84 5900	84 4840	84 4510	84 4190	84 3880	97 104	-30	84 5870	84 4820	84 4490	84 4170	84 3870	94 102		
-25	83 5880	83 4810	83 4480	83 4170	83 3910	97 104	-25	83 5840	83 4780	83 4460	83 4140	83 3830	94 102		
-20	83 6110	83 4950	83 4660	84 4380	84 4110	97 104	-20	81 5810	81 4750	81 4420	81 4100	81 3790	94 102		
-15	85 6420	84 5200	84 4900	85 4610	85 4330	97 104	-15	80 5850	80 4720	80 4450	81 4170	81 3910	95 101		
-10	86 6760	85 5480	85 5170	86 4860	86 4570	98 104	-10	82 6140	81 4960	82 4680	82 4400	82 4130	95 101		
-5	87 7120	86 5770	86 5450	87 5130	87 4830	98 104	-5	83 6470	82 5230	83 4930	83 4640	84 4360	95 101		
0	88 7500	87 6090	88 5750	88 5420	88 5100	98 103	0	84 6810	83 5510	84 5200	84 4890	85 4600	95 101		
5	90 7930	88 6430	89 6080	89 5740	90 5400	99 103	5	86 7170	85 5810	85 5480	85 5160	86 4850	96 101		
9	91 8290	89 6730	90 6360	90 6010	90 5660	99 103	10	87 7560	86 6130	86 5780	86 5450	87 5130	96 101		
10	91 8380	90 6810	90 6440	90 6080	91 5730	99 103	15	88 7990	87 6480	87 6120	88 5770	88 5430	96 101		
15	93 8870	91 7210	91 6820	92 6440	92 6070	99 103	17	89 8180	87 6630	88 6260	88 5910	88 5560	97 101		
17	93 9090	91 7380	92 6980	92 6600	92 6220	100 103	20	90 8470	88 6860	88 6490	89 6120	89 5770	97 101		
							23	91 8940	90 7240	90 6850	90 6460	90 6090	97 101		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	85 5850	85 4810					85 4490	85 4170	85 3870		90 99	-35
-30	84 5850	84 4810	84 4480	84 4170	84 3870	91 99	-30	84 5840	84 4810	84 4490	84 4170	84 3870	88 97		
-25	83 5810	83 4770	83 4440	83 4130	83 3820	91 99	-25	83 5800	83 4760	83 4440	83 4130	83 3830	88 97		
-20	81 5770	81 4730	81 4400	81 4090	81 3780	91 99	-20	81 5750	81 4720	81 4390	81 4080	81 3780	88 97		
-15	80 5730	80 4690	80 4360	80 4050	80 3740	92 99	-15	80 5700	80 4670	80 4350	80 4040	80 3740	88 96		
-10	79 5690	79 4640	79 4320	79 4000	79 3710	92 99	-10	79 5660	79 4620	79 4300	79 3990	79 3690	89 96		
-5	79 5860	78 4720	79 4440	79 4170	80 3910	92 99	-5	77 5600	77 4570	77 4250	77 3940	77 3640	89 96		
0	80 6160	79 4970	80 4680	80 4400	81 4120	92 99	0	76 5560	76 4520	76 4200	76 3930	77 3670	89 96		
5	81 6480	81 5230	81 4930	81 4640	82 4350	93 98	5	77 5820	76 4680	77 4400	77 4130	78 3870	90 96		
10	83 6820	82 5510	82 5190	82 4880	83 4590	93 98	10	78 6120	77 4930	78 4640	78 4360	79 4080	90 96		
15	84 7180	83 5800	83 5470	83 5150	84 4840	93 98	15	79 6430	79 5190	79 4880	79 4580	80 4300	90 96		
20	85 7580	84 6130	84 5790	85 5450	85 5130	94 98	20	81 6780	80 5460	80 5140	80 4840	81 4540	90 96		
23	87 7990	85 6460	86 6100	86 5750	86 5410	94 98	25	83 7390	82 5950	82 5610	82 5280	83 4960	91 95		
25	88 8320	86 6720	87 6340	87 5980	87 5630	94 98									

Figure 7-6 (Sheet 30)

TAKEOFF FIELD LENGTH - FEET, FLAPS 15° (WET RUNWAY OVER A 15 FOOT SCREEN HEIGHT) (ANTI-ICE ON)

Determine takeoff field length, V_1 , V_R , V_2 and V_{ENR} from Figure 7-8. If the runway has a gradient, adjust V_1 and takeoff field length using figure 7-7.

If the required distance is greater than the available distance, the airplane weight must be reduced until distance required is less than or equal to distance available.

TAKEOFF FIELD LENGTH WITH RUNWAY GRADIENT FLAPS 15°, ANTI-ICE ON

ZERO RUNWAY GRADIENT	UPHILL GRADIENT AND NON-SHADED				DOWNHILL GRADIENT			
					NON-SHADED			
	2% $V_1 + 7^*$ Knots	1.5% $V_1 + 5^*$ Knots	1% $V_1 + 3^*$ Knots	0.5% $V_1 + 2^*$ Knot	-1% $V_1 - 4$ Knots	-2% $V_1 - 7$ Knots	-1% $V_1 + 1^*$ Knot	-2% $V_1 + 1^*$ Knot
2400	2750	2700	2600	2550	2400	2300	2550	2700
2600	3050	2900	2800	2750	2600	2500	2800	2900
2800	3350	3200	3050	3000	2800	2700	3000	3150
3000	3550	3400	3250	3200	3000	2900	3250	3350
3200	3800	3650	3500	3400	3200	3100	3450	3600
3400	4050	3850	3700	3650	3400	3300	3650	3800
3600	4300	4100	3900	3850	3600	3500	3900	4000
3800	4600	4350	4150	4050	3800	3700	4100	4250
4000	4800	4550	4350	4250	4000	3900	4300	4450
4200	5050	4800	4550	4450	4200	4100	4500	4650
4400	5300	5000	4800	4650	4350	4300	4700	4850
4600	5550	5250	5050	4900	4550	4500	4900	5100
4800	5750	5450	5250	5100	4750	4700	5150	5300
5000	6050	5700	5450	5300	4950	4900	5350	5500
5200	6300	5950	5700	5500	5150	5100	5550	5750
5400	6600	6200	5900	5750	5300	5300	5750	5950
5600	6900	6500	6150	5950	5500	5500	5950	6150
5800	7250	6800	6400	6150	5650	5700	6100	6300
6000	7600	7050	6650	6300	5850	5850	6300	6450
6200	8100	7400	6950	6550	6050	6000	6500	6650
6400	8450	7700	7200	6750	6250	6150	6700	6850
6600	8700	7950	7400	6950	6400	6250	6900	7050
6800	8950	8150	7650	7100	6600	6350	7100	7250
7000	9200	8400	7850	7350	6800	6450	7300	7450
7200	9450	8600	8050	7550	6950	6600	7500	7650
7400	9700	8800	8300	7750	7150	6750	7700	7850
7600	9950	9000	8500	7950	7300	6950	7900	8050
7800	10200	9200	8700	8150	7500	7100	8100	8250
8000	10450	9450	8900	8350	7650	7250	8300	8450
8200	10700	9700	9150	8550	7850	7450	8550	8650
8400	10950	9950	9400	8800	8000	7650	8750	8850
8600	11250	10200	9600	9000	8200	7850	8950	9050
8800	11500	10450	9850	9200	8400	8050	9150	9250
9000	11750	10700	10050	9400	8600	8250	9350	9450
9500	12450	11300	10650	9950	9100	8750	9850	9950
10000	13150	11950	11150	10500	9600	9250	10350	10450
10500	13850	12550	11750	11050	10100	9750	10850	10950
11000	14550	13200	12350	11600	10600	10250	11350	11450
11500	15250	13800	12900	12100	11100	10750	11850	11950
12000		14400	13500	12650	11600	11250	12350	12450

* If the adjusted V_1 is greater than V_R , the value of V_R must be used for V_1 .

 Figure 7-7

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
SEA LEVEL

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							WEIGHT = 12200 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-25	93 4240	92 3370					92 3110	93 2860	94 2650	
-20	92 4300	92 3430	92 3170	93 2910	94 2700	108 115	-20	92 4300	92 3430	92 3160	92 2910	92 2660	107 114
-15	92 4370	92 3490	92 3220	93 2970	94 2760	108 115	-15	92 4360	92 3490	92 3220	92 2960	92 2710	107 114
-10	92 4440	92 3560	92 3280	93 3020	93 2810	108 115	-10	92 4430	92 3550	92 3280	92 3020	92 2770	107 114
-5	92 4500	91 3620	92 3340	93 3080	93 2860	108 115	-5	92 4500	92 3610	92 3340	92 3070	92 2820	107 114
0	93 4580	92 3680	92 3400	93 3160	94 2940	108 115	0	91 4570	91 3670	91 3400	92 3130	93 2870	107 114
5	93 4690	92 3740	93 3470	93 3240	94 3020	108 115	5	92 4630	91 3730	92 3450	92 3190	93 2930	107 114
10	96 5110	95 4040	95 3790	96 3540	97 3300	108 115	10	95 4980	94 3930	94 3680	95 3440	95 3210	108 114

WEIGHT = 12000 LBS							WEIGHT = 11500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-25	92 4220	92 3370					92 3100	92 2850	92 2610	
-20	92 4290	92 3430	92 3160	92 2900	92 2660	106 114	-20	92 4180	92 3330	92 3070	92 2820	92 2580	103 111
-15	92 4360	92 3490	92 3220	92 2960	92 2710	106 114	-15	92 4240	92 3390	92 3120	92 2870	92 2630	103 111
-10	92 4420	92 3550	92 3280	92 3020	92 2760	106 114	-10	92 4310	92 3450	92 3180	92 2920	92 2680	103 111
-5	92 4490	92 3610	92 3330	92 3070	92 2820	106 114	-5	92 4370	92 3500	92 3240	92 2980	92 2730	103 111
0	91 4560	91 3670	91 3390	91 3130	91 2870	106 113	0	91 4410	91 3540	91 3270	91 3010	91 2760	103 111
5	91 4630	91 3730	91 3450	91 3180	91 2930	106 113	5	91 4450	91 3570	91 3300	91 3030	91 2780	103 111
10	93 4830	92 3810	93 3560	93 3330	94 3100	107 113	10	90 4470	89 3510	89 3280	90 3060	91 2850	104 111

WEIGHT = 11000 LBS							WEIGHT = 10000 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-25	92 4200	92 3360					92 3100	92 2850	92 2610	
-20	92 4270	92 3420	92 3160	92 2910	92 2660	100 109	-20	92 4280	92 3440	92 3180	92 2930	92 2680	95 105
-15	92 4340	92 3480	92 3220	92 2960	92 2710	100 109	-15	92 4340	92 3500	92 3230	92 2980	92 2740	95 105
-10	92 4400	92 3540	92 3270	92 3010	92 2770	100 109	-10	92 4410	92 3550	92 3290	92 3030	92 2790	95 105
-5	92 4470	92 3600	92 3330	92 3070	92 2820	100 109	-5	92 4470	92 3610	92 3350	92 3090	92 2840	95 105
0	91 4540	91 3660	91 3390	91 3130	91 2870	101 109	0	92 4540	92 3670	92 3400	92 3150	92 2900	95 105
5	91 4600	91 3720	91 3450	91 3180	91 2930	101 109	5	91 4610	91 3730	91 3460	91 3200	91 2950	95 105
10	88 4670	88 3780	88 3500	88 3240	88 2980	101 109	10	88 4670	88 3790	88 3520	88 3260	88 3000	96 104

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-25	92 4250	92 3430					92 3170	92 2920	92 2680	
-20	92 4320	92 3480	92 3220	92 2970	92 2730	94 105	-20	93 4360	93 3520	93 3260	93 3010	93 2770	93 105
-15	92 4380	92 3540	92 3280	92 3030	92 2790	94 105	-15	93 4420	93 3580	93 3320	93 3070	93 2830	93 105
-10	92 4450	92 3600	92 3340	92 3080	92 2840	94 105	-10	93 4490	93 3640	93 3380	93 3120	93 2880	93 105
-5	92 4510	92 3660	92 3390	92 3140	92 2890	94 105	-5	92 4550	92 3700	92 3430	92 3180	92 2930	93 105
0	92 4580	92 3720	92 3450	92 3190	92 2950	93 104	0	92 4620	92 3760	92 3490	92 3230	92 2980	92 104
5	91 4650	91 3780	91 3510	91 3250	91 3000	93 104	5	92 4690	92 3820	92 3550	92 3290	92 3040	92 104
10	88 4710	88 3840	88 3570	88 3300	88 3050	91 101	10	88 4750	88 3880	88 3610	88 3350	88 3090	90 101

Figure 7-8 (Sheet 1 of 15)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
1000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 138 KIAS							WEIGHT = 12200 LBS							VENR = 137 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS								
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS												
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT												
-25	93 4370	92 3460	93 3200	93 2980	94 2770	108 115	-25	91 4320	91 3460	91 3190	92 2930	93 2690	107 114														
-20	93 4440	92 3520	93 3260	93 3040	94 2830	108 115	-20	91 4390	91 3520	91 3240	92 2980	93 2750	107 114														
-15	93 4510	92 3580	93 3320	93 3100	94 2880	108 115	-15	91 4460	91 3580	91 3300	92 3040	93 2800	107 114														
-10	93 4580	92 3650	93 3380	93 3150	94 2930	108 115	-10	91 4530	91 3640	91 3360	92 3100	93 2850	107 114														
-5	93 4660	92 3710	93 3450	93 3220	94 3000	108 115	-5	91 4600	91 3700	91 3420	92 3160	93 2920	107 114														
0	93 4780	92 3780	93 3540	94 3310	94 3090	108 115	0	92 4670	91 3770	92 3490	92 3220	93 3000	107 114														
5	95 5010	94 3970	94 3720	95 3480	95 3250	108 115	5	93 4880	92 3870	93 3620	94 3390	94 3160	107 114														
10	98 5470	96 4330	97 4060	97 3800	98 3550	109 115	10	96 5330	95 4220	96 3950	96 3700	97 3450	108 114														

WEIGHT = 12000 LBS							VENR = 136 KIAS							WEIGHT = 11500 LBS							VENR = 133 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS								
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS												
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT												
-25	91 4320	91 3450	91 3180	91 2930	91 2680	106 113	-25	91 4210	91 3360	91 3090	91 2840	91 2600	103 111														
-20	91 4390	91 3510	91 3240	91 2980	91 2730	106 113	-20	91 4270	91 3410	91 3150	91 2890	91 2650	103 111														
-15	91 4450	91 3570	91 3300	91 3040	91 2790	106 113	-15	91 4340	91 3470	91 3210	91 2950	91 2700	103 111														
-10	91 4520	91 3640	91 3360	91 3100	91 2840	106 113	-10	91 4410	91 3530	91 3260	91 3000	91 2750	103 111														
-5	91 4590	91 3700	91 3420	91 3150	91 2900	106 113	-5	91 4460	91 3580	91 3310	91 3050	91 2800	103 111														
0	90 4660	90 3760	90 3480	91 3210	92 2950	106 113	0	91 4500	91 3610	91 3340	91 3080	91 2820	103 111														
5	92 4740	91 3820	92 3540	93 3280	93 3050	106 113	5	89 4470	89 3580	89 3310	89 3040	89 2810	104 111														
10	95 5160	94 4090	94 3830	95 3580	95 3330	107 113	10	91 4780	90 3770	91 3520	91 3290	92 3060	104 111														

WEIGHT = 11000 LBS							VENR = 130 KIAS							WEIGHT = 10000 LBS							VENR = 125 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS								
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS												
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT												
-25	91 4300	91 3440	91 3180	91 2920	91 2680	101 109	-25	92 4300	92 3460	92 3190	92 2940	92 2700	95 105														
-20	91 4360	91 3500	91 3240	91 2980	91 2730	101 109	-20	92 4360	92 3510	92 3250	92 3000	92 2750	95 105														
-15	91 4430	91 3560	91 3300	91 3040	91 2790	101 109	-15	92 4430	92 3580	92 3310	92 3050	92 2810	95 105														
-10	91 4500	91 3630	91 3350	91 3090	91 2840	101 109	-10	92 4500	92 3640	92 3370	92 3110	92 2860	95 105														
-5	91 4570	91 3690	91 3410	91 3150	91 2900	101 109	-5	91 4570	91 3700	91 3430	91 3170	91 2920	95 105														
0	91 4640	91 3750	91 3470	91 3210	91 2950	101 109	0	91 4640	91 3760	91 3490	91 3220	91 2970	95 105														
5	89 4710	89 3810	89 3530	89 3270	89 3010	101 109	5	89 4700	89 3820	89 3550	89 3280	89 3030	95 105														
10	87 4770	86 3870	87 3590	88 3320	88 3060	102 109	10	86 4770	86 3880	86 3600	86 3340	86 3080	96 104														

WEIGHT = 9000 LBS							VENR = 118 KIAS							WEIGHT = 8500 LBS							VENR = 115 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS								
			10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS					10 KTS	20 KTS	30 KTS												
			V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT					V1 DIST KIAS FT	V1 DIST KIAS FT	V1 DIST KIAS FT												
-25	92 4340	92 3500	92 3240	92 2990	92 2750	93 104	-25	92 4370	92 3540	92 3280	92 3030	92 2790	92 104														
-20	92 4400	92 3560	92 3300	92 3040	92 2800	93 104	-20	92 4440	92 3600	92 3330	92 3080	92 2840	92 104														
-15	92 4470	92 3620	92 3360	92 3100	92 2860	93 104	-15	92 4510	92 3660	92 3390	92 3140	92 2890	92 104														
-10	92 4540	92 3680	92 3410	92 3160	92 2910	93 104	-10	92 4580	92 3720	92 3450	92 3200	92 2950	92 104														
-5	92 4610	92 3740	92 3470	92 3210	92 2960	93 104	-5	92 4640	92 3780	92 3510	92 3250	92 3000	92 104														
0	91 4670	91 3800	91 3530	91 3270	91 3020	93 104	0	91 4710	91 3840	91 3570	91 3310	91 3060	92 104														
5	90 4740	90 3870	90 3590	90 3330	90 3070	92 102	5	90 4780	90 3900	90 3630	90 3370	90 3110	91 102														
10	87 4800	87 3920	87 3650	87 3380	87 3130	90 100	10	87 4840	87 3960	87 3690	87 3420	87 3160	89 99														

Figure 7-8 (Sheet 2)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
2000 FEET

CONDITIONS: WET RUNWAY ANTI-ICE - ON
RUNWAY GRADIENT - ZERO SPEED BRAKES - RETRACT
LANDING GEAR - DOWN INOPERATIVE ENGINE - WINDMILLING AFTER V1
THRUST ATTENUATORS - AUTO OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS VENR = 139 KIAS								WEIGHT = 12200 LBS VENR = 137 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-25	93 4520	92 3560	93 3330	93 3100	94 2890	108 115		-25	92 4430	91 3550	91 3280	92 3020	93 2810	107 114	
-20	93 4590	92 3620	93 3390	93 3160	94 2940	108 115		-20	92 4500	91 3610	91 3340	92 3080	93 2860	107 114	
-15	93 4660	92 3690	93 3450	93 3220	94 3000	108 115		-15	92 4580	91 3680	91 3400	92 3130	93 2920	107 114	
-10	93 4730	92 3750	93 3510	93 3280	94 3060	108 115		-10	92 4650	91 3740	91 3460	92 3190	93 2970	107 114	
-5	93 4850	92 3840	93 3600	94 3370	94 3140	108 115		-5	92 4720	91 3810	92 3530	92 3280	93 3050	107 114	
0	94 4970	93 3950	93 3710	94 3470	94 3240	108 115		0	92 4850	92 3870	92 3610	93 3370	93 3140	107 114	
5	96 5360	95 4270	96 4000	96 3750	97 3500	109 115		5	95 5230	94 4150	94 3890	95 3640	95 3400	108 114	
10	99 5880	98 4660	98 4380	99 4100	99 3840	109 115		10	98 5710	96 4530	97 4250	97 3980	98 3720	108 114	

WEIGHT = 12000 LBS VENR = 136 KIAS								WEIGHT = 11500 LBS VENR = 134 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-25	91 4430	91 3550	91 3280	91 3010	91 2760	106 113		-25	91 4310	91 3450	91 3180	91 2920	91 2680	103 111	
-20	91 4500	91 3610	91 3340	91 3070	91 2820	106 113		-20	91 4380	91 3510	91 3240	91 2980	91 2730	103 111	
-15	91 4570	91 3670	91 3400	91 3130	91 2880	106 113		-15	91 4450	91 3570	91 3300	91 3040	91 2790	103 111	
-10	91 4640	91 3740	91 3460	91 3190	91 2930	106 113		-10	91 4520	91 3630	91 3360	91 3090	91 2840	103 111	
-5	90 4710	90 3800	90 3520	91 3250	92 2990	106 113		-5	91 4560	91 3670	91 3390	91 3130	91 2870	103 111	
0	91 4780	90 3870	91 3580	91 3310	92 3050	106 113		0	90 4590	90 3700	90 3420	90 3150	90 2890	103 111	
5	94 5070	92 4020	93 3770	94 3530	94 3290	107 113		5	90 4690	89 3710	89 3470	90 3240	91 3020	104 111	
10	96 5540	95 4390	96 4120	96 3850	96 3600	107 113		10	93 5120	92 4050	92 3790	93 3540	93 3300	105 111	

WEIGHT = 11000 LBS VENR = 130 KIAS								WEIGHT = 10000 LBS VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-25	91 4400	91 3540	91 3270	91 3010	91 2760	101 109		-25	91 4400	91 3550	91 3280	91 3030	91 2780	95 105	
-20	91 4470	91 3600	91 3330	91 3070	91 2820	101 109		-20	91 4470	91 3610	91 3340	91 3080	91 2840	95 105	
-15	91 4540	91 3660	91 3390	91 3130	91 2870	101 109		-15	91 4540	91 3670	91 3400	91 3140	91 2890	95 105	
-10	91 4610	91 3730	91 3450	91 3190	91 2930	101 109		-10	91 4610	91 3730	91 3460	91 3200	91 2950	95 105	
-5	91 4680	91 3790	91 3510	91 3240	91 2990	101 109		-5	91 4680	91 3800	91 3520	91 3260	91 3000	95 105	
0	90 4750	90 3850	90 3570	90 3300	90 3040	101 109		0	90 4750	90 3860	90 3580	90 3320	90 3060	95 105	
5	88 4820	88 3920	88 3640	88 3360	88 3100	101 109		5	88 4820	88 3930	88 3650	88 3380	88 3120	96 104	
10	89 4890	88 3980	88 3700	89 3420	90 3160	102 109		10	85 4890	85 3990	85 3710	85 3440	85 3180	96 104	

WEIGHT = 9000 LBS VENR = 118 KIAS								WEIGHT = 8500 LBS VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-25	92 4440	92 3590	92 3330	92 3070	92 2830	93 104		-25	92 4470	92 3630	92 3360	92 3110	92 2860	92 104	
-20	92 4500	92 3650	92 3380	92 3130	92 2880	93 104		-20	92 4540	92 3690	92 3420	92 3170	92 2920	92 104	
-15	92 4570	92 3710	92 3450	92 3190	92 2940	93 104		-15	92 4610	92 3750	92 3480	92 3220	92 2980	92 104	
-10	92 4640	92 3780	92 3510	92 3250	92 2990	93 104		-10	92 4680	92 3810	92 3540	92 3280	92 3030	92 104	
-5	91 4710	91 3840	91 3570	91 3300	91 3050	93 104		-5	91 4750	91 3880	91 3600	91 3340	91 3090	92 104	
0	91 4780	91 3900	91 3630	91 3360	91 3110	93 103		0	91 4820	91 3940	91 3670	91 3400	91 3150	92 103	
5	88 4850	88 3970	88 3690	88 3420	88 3170	91 101		5	88 4890	88 4000	88 3730	88 3460	88 3200	90 100	
10	85 4920	85 4030	85 3750	85 3480	85 3220	91 99		10	85 4960	85 4070	85 3790	85 3520	85 3260	88 97	

Figure 7-8 (Sheet 3)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
3000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 12375 LBS								VENR = 139 KIAS								HEIGHT = 12200 LBS								VENR = 138 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT						
-30	93	4570	92	3610	93	3370	93	3150	94	2930	108	115	-30	92	4500	91	3610	91	3330	92	3070	93	2850	107	114						
-25	93	4650	92	3680	93	3440	93	3210	94	2990	108	115	-25	92	4570	91	3670	91	3390	92	3130	93	2910	107	114						
-20	93	4720	92	3740	93	3500	93	3270	94	3050	108	115	-20	92	4640	91	3740	91	3460	92	3190	93	2960	107	114						
-15	93	4790	92	3810	93	3560	93	3330	94	3110	108	115	-15	92	4710	91	3800	91	3520	92	3250	93	3020	107	114						
-10	93	4880	92	3880	93	3640	93	3400	94	3180	108	115	-10	92	4790	91	3870	91	3580	92	3310	93	3090	107	114						
-5	93	5030	93	4000	93	3750	94	3510	94	3280	108	115	-5	92	4900	91	3940	92	3650	93	3420	93	3190	107	114						
0	95	5240	94	4180	94	3920	95	3670	95	3430	108	115	0	93	5100	92	4060	93	3810	93	3570	94	3340	107	114						
5	98	5760	96	4580	97	4310	97	4040	98	3770	109	115	5	97	5600	95	4460	96	4190	96	3920	97	3670	108	114						
10	101	6330	99	5040	100	4740	100	4440	100	4160	110	115	10	100	6150	98	4890	98	4600	99	4310	99	4030	109	114						

HEIGHT = 12000 LBS								VENR = 136 KIAS								HEIGHT = 11500 LBS								VENR = 134 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT						
-30	91	4490	91	3600	91	3330	91	3070	91	2810	106	113	-30	91	4370	91	3500	91	3230	91	2980	91	2730	103	111						
-25	91	4560	91	3670	91	3390	91	3120	91	2870	106	113	-25	91	4440	91	3560	91	3290	91	3030	91	2780	103	111						
-20	91	4630	91	3730	91	3450	91	3180	91	2930	106	113	-20	91	4510	91	3630	91	3350	91	3090	91	2840	103	111						
-15	91	4700	91	3800	91	3520	91	3240	91	2980	106	113	-15	91	4580	91	3690	91	3410	91	3150	91	2890	103	111						
-10	91	4780	91	3860	91	3580	91	3310	91	3040	106	113	-10	91	4640	91	3740	91	3470	91	3200	91	2940	103	111						
-5	91	4850	90	3930	91	3640	91	3370	92	3100	106	113	-5	90	4670	90	3770	90	3490	90	3220	90	2960	103	111						
0	92	4950	91	3990	92	3700	92	3460	93	3230	106	113	0	89	4660	89	3750	89	3470	89	3200	89	2970	104	111						
5	95	5430	94	4320	94	4050	95	3800	95	3550	107	113	5	91	5030	90	3980	91	3730	91	3490	92	3260	104	111						
10	98	5950	97	4730	97	4440	98	4160	98	3890	108	113	10	94	5480	93	4350	93	4080	94	3810	94	3560	105	111						

HEIGHT = 11000 LBS								VENR = 130 KIAS								HEIGHT = 10000 LBS								VENR = 125 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT						
-30	91	4460	91	3590	91	3320	91	3060	91	2810	101	109	-30	91	4460	91	3600	91	3340	91	3080	91	2830	95	105						
-25	91	4530	91	3650	91	3380	91	3120	91	2870	101	109	-25	91	4530	91	3660	91	3390	91	3130	91	2890	95	105						
-20	91	4600	91	3720	91	3440	91	3180	91	2920	101	109	-20	91	4600	91	3730	91	3460	91	3190	91	2940	95	105						
-15	91	4670	91	3780	91	3510	91	3240	91	2980	101	109	-15	91	4670	91	3790	91	3520	91	3250	91	3000	95	105						
-10	91	4750	91	3850	91	3570	91	3300	91	3040	101	109	-10	91	4740	91	3860	91	3580	91	3310	91	3060	95	105						
-5	90	4820	90	3910	90	3630	90	3360	90	3100	101	109	-5	90	4820	90	3920	90	3640	90	3370	90	3120	95	105						
0	89	4890	89	3970	89	3690	89	3420	89	3150	101	109	0	89	4880	89	3980	89	3700	89	3430	89	3170	95	105						
5	88	4920	87	4000	87	3710	88	3440	88	3170	102	109	5	86	4910	86	4000	86	3720	86	3450	86	3190	96	104						
10	90	5050	89	4000	90	3740	90	3500	91	3260	102	108	10	83	4910	83	4000	83	3720	83	3450	83	3180	97	104						

HEIGHT = 9000 LBS								VENR = 118 KIAS								HEIGHT = 8500 LBS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS			10 KTS	V1 DIST	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS									
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT		KIAS	FT						
-30	92	4500	92	3640	92	3380	92	3120	92	2880	93	104	-30	92	4530	92	3680	92	3420	92	3160	92	2910	92	104						
-25	92	4570	92	3710	92	3440	92	3180	92	2930	93	104	-25	92	4600	92	3740	92	3470	92	3220	92	2970	92	104						
-20	92	4640	92	3770	92	3500	92	3240	92	2990	93	104	-20	92	4670	92	3810	92	3540	92	3280	92	3020	92	104						
-15	92	4710	92	3830	92	3560	92	3300	92	3040	93	104	-15	92	4740	92	3870	92	3600	92	3340	92	3080	92	104						
-10	91	4780	91	3900	91	3620	91	3360	91	3100	93	104	-10	91	4810	91	3930	91	3660	91	3400	91	3140	92	104						
-5	91	4850	91	3960	91	3690	91	3420	91	3160	93	104	-5	91	4890	91	4000	91	3720	91	3460	91	3200	92	103						
0	89	4910	89	4020	89	3740	89	3470	89	3210	92	102	0	90	4950	90	4060	90	3780	90	3510	90	3250	91	102						
5	86	4940	86	4040	86	3760	86	3490	86	3230	90	99	5	86	4970	86	4070	86	3800	86	3530	86	3260	89	99						
10	83	4930	83	4030	83	3750	83	3480	83	3220	91	99	10	83	4960	83	4060	83	3780	83	3510	83	3250	88	97						

Figure 7-8 (Sheet 4)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
4000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 12375 LBS								VENR = 139 KIAS								HEIGHT = 12200 LBS								VENR = 138 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT									
-30	93	4700	92	3730	92	3480	93	3250	94	3030	108	115	-30	91	4630	91	3730	91	3450	92	3180	93	2950	107	114						
-25	93	4780	92	3800	92	3550	93	3320	94	3100	108	115	-25	91	4700	91	3790	91	3510	92	3240	93	3010	107	114						
-20	93	4850	92	3870	92	3620	93	3380	94	3160	108	115	-20	91	4780	91	3860	91	3580	92	3300	93	3070	107	114						
-15	93	4930	92	3930	92	3680	93	3450	94	3220	108	115	-15	91	4850	91	3930	91	3640	92	3360	92	3130	107	114						
-10	93	5060	92	4040	93	3790	93	3550	94	3320	108	115	-10	92	4930	91	4000	92	3710	92	3450	93	3220	107	114						
-5	94	5230	93	4180	93	3920	94	3680	95	3440	108	115	-5	93	5100	92	4070	92	3820	93	3580	93	3340	107	114						
0	96	5610	95	4490	96	4220	96	3950	96	3700	109	115	0	95	5470	94	4370	94	4100	95	3850	95	3600	108	114						
5	99	6190	98	4940	98	4640	99	4360	99	4080	109	115	5	98	6020	97	4800	97	4510	98	4230	98	3960	108	114						
7	101	6440	99	5140	99	4830	100	4540	100	4250	110	115	7	101	6500	99	5180	99	4870	100	4580	100	4290	109	114						
9	102	6690	100	5340	101	5020	101	4720	101	4420	110	115	9	101	6630	99	5280	100	4970	100	4670	101	4370	109	114						

HEIGHT = 12000 LBS								VENR = 137 KIAS								HEIGHT = 11500 LBS								VENR = 134 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT									
-30	91	4620	91	3720	91	3440	91	3180	91	2920	106	113	-30	91	4500	91	3620	91	3350	91	3080	91	2830	103	111						
-25	91	4690	91	3790	91	3510	91	3240	91	2980	106	113	-25	91	4570	91	3680	91	3410	91	3140	91	2880	103	111						
-20	91	4770	91	3860	91	3570	91	3300	91	3040	106	113	-20	91	4650	91	3750	91	3470	91	3200	91	2940	103	111						
-15	91	4840	91	3920	91	3640	91	3360	91	3100	106	113	-15	91	4720	91	3810	91	3530	91	3260	91	3000	103	111						
-10	90	4920	90	3990	90	3700	91	3420	92	3160	106	113	-10	90	4760	90	3850	90	3560	90	3290	90	3030	103	111						
-5	91	5000	90	4060	91	3770	92	3490	92	3240	106	113	-5	90	4770	90	3860	90	3570	90	3300	90	3040	104	111						
0	93	5310	92	4230	93	3970	93	3720	94	3480	107	113	0	90	4910	89	3900	89	3660	90	3420	91	3200	104	111						
5	97	5830	95	4640	96	4360	96	4090	97	3830	107	113	5	93	5380	92	4280	92	4020	93	3760	93	3510	105	111						
10	100	6410	98	5110	98	4800	99	4500	99	4220	108	113	10	96	5890	94	4680	95	4390	95	4120	96	3850	105	111						

HEIGHT = 11000 LBS								VENR = 130 KIAS								HEIGHT = 10000 LBS								VENR = 124 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT									
-30	91	4590	91	3710	91	3430	91	3170	91	2920	101	109	-30	91	4590	91	3720	91	3450	91	3190	91	2930	95	105						
-25	91	4660	91	3770	91	3500	91	3230	91	2970	101	109	-25	91	4660	91	3780	91	3510	91	3240	91	2990	95	105						
-20	91	4740	91	3840	91	3560	91	3290	91	3030	101	109	-20	91	4730	91	3850	91	3570	91	3310	91	3050	95	105						
-15	91	4810	91	3910	91	3620	91	3350	91	3090	101	109	-15	91	4810	91	3910	91	3640	91	3370	91	3110	95	105						
-10	90	4890	90	3970	90	3690	90	3420	90	3150	101	109	-10	91	4880	91	3980	91	3700	91	3430	91	3170	95	105						
-5	90	4960	90	4040	90	3760	90	3480	90	3210	101	109	-5	90	4960	90	4050	90	3770	90	3490	90	3230	95	105						
0	87	5020	87	4100	87	3810	87	3530	87	3260	101	109	0	87	5010	87	4100	87	3810	87	3540	87	3270	96	104						
5	89	5010	88	4080	89	3790	89	3520	90	3250	102	109	5	84	5000	84	4080	84	3800	84	3520	84	3260	97	104						
10	92	5410	91	4290	91	4020	92	3760	92	3510	103	108	10	84	4940	83	4030	84	3740	84	3470	85	3200	97	104						

HEIGHT = 9000 LBS								VENR = 119 KIAS								HEIGHT = 8500 LBS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT									
-30	92	4630	92	3760	92	3490	92	3230	92	2980	93	104	-30	92	4660	92	3800	92	3530	92	3270	92	3020	92	104						
-25	92	4700	92	3820	92	3550	92	3290	92	3040	93	104	-25	92	4730	92	3860	92	3590	92	3330	92	3070	92	104						
-20	91	4770	91	3890	91	3610	91	3350	91	3090	93	104	-20	92	4800	92	3930	92	3650	92	3390	92	3130	92	104						
-15	91	4840	91	3950	91	3680	91	3410	91	3150	93	104	-15	92	4880	92	3990	92	3720	92	3450	92	3190	92	104						
-10	91	4910	91	4020	91	3740	91	3470	91	3210	93	104	-10	91	4950	91	4060	91	3780	91	3510	91	3250	92	104						
-5	90	4990	90	4090	90	3810	90	3540	90	3270	92	103	-5	90	5030	90	4130	90	3850	90	3570	90	3310	92	103						
0	88	5040	88	4140	88	3860	88	3580	88	3320	91	101	0	88	5080	88	4180	88	3890	88	3620	88	3360	90	100						
5	85	5020	85	4110	85	3830	85	3560	85	3290	91	99	5	85	5050	85	4150	85	3860	85	3590	85	3330	88	97						
10	82	4950	82	4050	82	3770	82	3490	82	3230	91	99	10	82	4970	82	4070	82	3790	82	3520	82	3260	88	96						

Figure 7-8 (Sheet 5)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
5000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							VENR = 139 KIAS							WEIGHT = 12200 LBS							VENR = 138 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS				
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS							
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-35	93	4740	92	3790	92	3520	93	3290	94	3070	108	115	-35	91	4690	91	3790	91	3500	92	3230	92	2990	107	114		
-30	93	4830	92	3860	92	3600	93	3360	94	3140	108	115	-30	91	4770	91	3850	91	3570	92	3300	92	3050	107	114		
-25	93	4910	92	3930	92	3670	93	3430	94	3200	108	115	-25	91	4850	91	3920	91	3640	92	3360	92	3110	107	114		
-20	93	4990	92	4000	92	3740	93	3500	94	3270	108	115	-20	91	4920	91	3990	91	3700	92	3420	92	3180	107	114		
-15	93	5070	92	4070	92	3800	93	3560	94	3330	108	115	-15	91	5000	91	4060	91	3770	92	3490	92	3240	107	114		
-10	93	5260	93	4210	93	3960	94	3710	94	3470	108	115	-10	92	5120	91	4110	92	3850	93	3610	93	3370	107	114		
-5	94	5460	93	4380	94	4120	94	3860	95	3620	108	115	-5	93	5320	92	4260	93	4000	93	3760	94	3510	107	114		
0	98	6030	96	4830	97	4540	97	4270	98	4000	109	115	0	97	5870	95	4700	96	4420	96	4150	97	3880	108	114		
5	101	6680	99	5340	100	5030	100	4730	101	4430	110	115	5	100	6490	98	5190	99	4880	99	4590	99	4300	109	114		
6	102	6810	100	5450	100	5130	101	4820	101	4520	110	115	6	100	6620	99	5290	99	4980	99	4680	100	4380	109	114		
													7	101	6750	99	5390	100	5070	100	4770	100	4470	109	114		

WEIGHT = 12000 LBS							VENR = 137 KIAS							WEIGHT = 11500 LBS							VENR = 134 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS				
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS							
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-35	91	4690	91	3780	91	3500	91	3230	91	2970	106	113	-35	91	4570	91	3680	91	3400	91	3140	91	2880	103	111		
-30	91	4760	91	3850	91	3560	91	3290	91	3030	106	113	-30	91	4640	91	3740	91	3460	91	3200	91	2940	103	111		
-25	91	4840	91	3920	91	3630	91	3360	91	3090	106	113	-25	91	4710	91	3810	91	3530	91	3260	91	3000	103	111		
-20	91	4920	91	3990	91	3700	91	3420	91	3150	106	113	-20	91	4790	91	3880	91	3590	91	3320	91	3060	103	111		
-15	91	4990	91	4060	91	3770	91	3490	91	3210	106	113	-15	91	4860	91	3940	91	3660	91	3380	91	3120	103	111		
-10	91	5040	90	4100	91	3810	91	3520	92	3260	106	113	-10	90	4870	90	3950	90	3660	90	3380	90	3120	103	111		
-5	92	5160	91	4140	91	3880	92	3640	93	3400	106	113	-5	98	4870	89	3950	89	3660	89	3380	89	3130	104	111		
0	95	5690	94	4550	94	4280	95	4010	95	3760	107	113	0	91	5270	90	4200	91	3940	91	3690	92	3450	104	111		
5	98	6280	97	5010	97	4720	98	4430	98	4150	108	113	5	94	5780	93	4600	94	4330	94	4060	94	3790	105	111		
7	100	6520	98	5210	98	4900	99	4600	99	4310	108	113	10	98	6350	96	5060	96	4760	97	4460	97	4180	106	111		
10	102	6930	100	5530	100	5200	100	4890	101	4580	108	113															

WEIGHT = 11000 LBS							VENR = 131 KIAS							WEIGHT = 10000 LBS							VENR = 124 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS				
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS							
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-35	91	4660	91	3770	91	3490	91	3220	91	2970	101	109	-35	91	4660	91	3780	91	3500	91	3240	91	2990	95	105		
-30	91	4730	91	3830	91	3550	91	3290	91	3030	101	109	-30	91	4730	91	3840	91	3570	91	3300	91	3040	95	105		
-25	91	4810	91	3900	91	3620	91	3350	91	3090	101	109	-25	91	4800	91	3910	91	3630	91	3360	91	3100	95	105		
-20	91	4880	91	3970	91	3690	91	3410	91	3150	101	109	-20	91	4880	91	3980	91	3700	91	3430	91	3160	95	105		
-15	91	4960	91	4040	91	3750	91	3480	91	3210	101	109	-15	91	4950	91	4040	91	3760	91	3490	91	3230	95	105		
-10	90	5000	90	4080	90	3790	90	3510	90	3240	101	109	-10	90	4990	90	4080	90	3800	90	3520	90	3260	95	105		
-5	89	5050	89	4120	89	3830	89	3550	89	3280	101	109	-5	89	5030	89	4120	89	3830	89	3550	89	3290	95	105		
0	88	5060	87	4130	87	3840	88	3550	88	3280	102	109	0	86	5040	86	4120	86	3830	86	3560	86	3290	96	104		
5	91	5320	90	4230	90	3970	91	3720	91	3470	102	108	5	83	5000	83	4080	83	3790	83	3520	84	3250	97	104		
10	93	5810	92	4620	92	4330	93	4060	93	3800	103	108	10	85	4950	84	4030	85	3740	85	3470	86	3200	98	104		

WEIGHT = 9000 LBS							VENR = 119 KIAS							WEIGHT = 8500 LBS							VENR = 115 KIAS						
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS						VR V2 KIAS				
	10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	10 KTS	20 KTS	30 KTS							
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT			KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT					
-35	92	4690	92	3820	92	3550	92	3280	92	3030	93	105	-35	92	4730	92	3860	92	3580	92	3320	92	3070	93	104		
-30	92	4760	92	3880	92	3610	92	3340	92	3090	93	105	-30	92	4800	92	3920	92	3650	92	3380	92	3130	93	104		
-25	92	4840	92	3950	92	3670	92	3410	92	3150	93	105	-25	92	4870	92	3990	92	3710	92	3440	92	3190	93	104		
-20	91	4910	91	4020	91	3740	91	3470	91	3210	93	105	-20	92	4950	92	4050	92	3780	92	3510	92	3250	93	104		
-15	91	4990	91	4080	91	3800	91	3530	91	3270	93	105	-15	92	5020	92	4120	92	3840	92	3570	92	3310	93	104		
-10	90	5020	90	4120	90	3840	90	3560	90	3300	93	104	-10	91	5060	91	4150	91	3870	91	3600	91	3340	92	103		
-5	89	5060	89	4150	89	3870	89	3590	89	3330	92	103	-5	90	5090	90	4180	90	3900	90	3630	90	3360	91	102		
0	86	5060	86	4150	86	3870	86	3590	86	3330	90	99	0	86	5090	86	4180	86	3900	86	3620	86	3360	89	99		
5	83	5010	83	4100	83	3810	83	3540	83	3280	91	99	5	83	5030	83	4120	83	3840	83	3570	83	3300	88	97		
10	80	4940	80	4040	80	3750	80	3480	80	3220	92	99	10	80	4960	80	4060	80	3770	80	3500	80	3240	88	96		

Figure 7-8 (Sheet 6)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
6000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																																																																				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS																																																									
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT																																																													
			-35	92 4880	92 3920	92 3640	93 3410	93 3180					108 115	-35	91 4840	91 3920	91 3630	92 3350		92 3090	107 114	-30	91 4920	91 3990	91 3700	92 3420	92 3160	107 114	-25	91 5000	91 4060	91 3770	92 3480	92 3230	107 114	-20	91 5130	92 4140	92 3860	93 3620	93 3390	108 115	-15	92 5140	92 4220	93 3970	94 3720	94 3480	108 115	-10	94 5490	93 4410	94 4140	94 3890	95 3640	108 115	-5	96 5840	95 4700	95 4420	96 4160	96 3890	108 115	0	99 6480	98 5200	98 4900	99 4610	99 4320	109 115	2	101 6770	99 5430	99 5120	100 4810	100 4520

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS																																																																																																																																																	
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS																																																																																																																																						
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT																																																																																																																																										
			-35	91 4830	91 3910	91 3620	91 3350	91 3080					106 114	-35	91 4710	91 3810	91 3530	91 3260		91 3000	103 111	-30	91 4910	91 3980	91 3690	91 3410	91 3150	106 113	-30	91 4790	91 3870	91 3590	91 3320	91 3050	103 111	-25	91 4990	91 4050	91 3760	91 3480	91 3210	106 113	-25	91 4860	91 3940	91 3660	91 3380	91 3120	103 111	-20	91 5070	91 4120	91 3830	91 3550	91 3270	106 113	-20	91 4940	91 4010	91 3720	91 3440	91 3180	103 111	-15	90 5130	90 4180	90 3890	91 3600	91 3330	106 113	-15	90 4980	90 4050	90 3760	90 3480	90 3210	103 111	-10	91 5190	90 4220	91 3920	92 3660	92 3430	106 113	-10	89 4980	89 4040	89 3750	89 3470	89 3200	104 111	-5	93 5520	92 4430	93 4170	93 3910	94 3660	107 113	-5	89 5110	89 4090	89 3840	90 3600	90 3360	104 111	0	97 6100	95 4890	96 4600	96 4320	96 4050	107 113	0	93 5640	92 4510	92 4240	93 3970	93 3720	105 111	4	99 6640	98 5310	98 5000	98 4720	99 4410	108 113	5	96 6220	94 4960	95 4670	95 4380	96 4100	105 111	5	100 6770	98 5420	99 5100	99 4800	99 4500	108 113	7	97 6470	96 5160	96 4860	96 4560	97 4270	106 111	7	101 7050	99 5640	100 5310	100 5000	100 4690

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS																																																																																																																																			
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS																																																																																																																								
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT																																																																																																																												
			-35	91 4800	91 3890	91 3610	91 3340	91 3080					101 109	-35	91 4800	91 3900	91 3620	91 3360		91 3100	95 105	-30	91 4870	91 3960	91 3680	91 3400	91 3140	101 109	-30	91 4870	91 3970	91 3690	91 3420	91 3160	95 105	-25	91 4950	91 4030	91 3750	91 3470	91 3200	101 109	-25	91 4950	91 4040	91 3760	91 3480	91 3220	95 105	-20	91 5030	91 4100	91 3820	91 3540	91 3270	101 109	-20	91 5020	91 4110	91 3820	91 3550	91 3280	95 105	-15	91 5090	91 4160	91 3870	91 3590	91 3320	101 109	-15	91 5090	91 4160	91 3880	91 3600	91 3330	95 105	-10	89 5130	89 4190	89 3900	89 3620	89 3350	101 109	-10	90 5120	90 4190	90 3900	90 3630	90 3360	95 105	-5	87 5140	87 4200	87 3900	87 3620	87 3350	101 109	-5	88 5120	88 4190	88 3900	88 3620	88 3350	96 104	0	89 5190	88 4150	89 3890	89 3640	90 3400	102 109	0	84 5060	84 4130	84 3840	84 3570	84 3300	97 104	5	92 5710	91 4540	91 4270	92 4000	92 3740	103 108	5	84 5000	83 4080	84 3790	84 3510	85 3250	97 104	10	95 6270	93 4990	94 4690	94 4400	95 4120

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS																																																																																																																																			
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS						VR V2 KIAS																																																																																																																								
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT																																																																																																																												
			-35	92 4830	92 3940	92 3670	92 3400	92 3140					94 105	-35	92 4870	92 3980	92 3710	92 3440		92 3180	93 105	-30	92 4900	92 4010	92 3730	92 3460	92 3200	94 105	-30	92 4940	92 4050	92 3770	92 3500	92 3240	93 105	-25	92 4980	92 4080	92 3800	92 3530	92 3270	94 105	-25	92 5020	92 4120	92 3840	92 3570	92 3300	93 105	-20	91 5060	91 4150	91 3870	91 3590	91 3330	94 105	-20	92 5090	92 4190	92 3900	92 3630	92 3370	93 105	-15	91 5120	91 4200	91 3920	91 3640	91 3380	93 104	-15	91 5150	91 4240	91 3950	91 3680	91 3410	92 104	-10	90 5140	90 4230	90 3940	90 3660	90 3400	92 103	-10	90 5180	90 4260	90 3980	90 3700	90 3430	92 103	-5	88 5130	88 4220	88 3930	88 3650	88 3390	91 101	-5	88 5160	88 4250	88 3960	88 3690	88 3420	90 101	0	84 5060	84 4150	84 3860	84 3590	84 3320	91 99	0	84 5080	84 4170	84 3890	84 3610	84 3350	88 97	5	81 5000	81 4090	81 3800	81 3530	81 3260	91 99	5	81 5010	81 4100	81 3820	81 3550	81 3280	88 96	10	79 4940	79 4030	79 3750	79 3470	79 3210

Figure 7-8 (Sheet 7)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
7000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
VENR = 140 KIAS								VENR = 139 KIAS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS								
-35	92	5040	92	4060	92	3780	93	3540	93	3310	108	115	-35	91	4990	91	4050	91	3760	92	3480	92	3220	107	114
-30	93	5130	92	4130	92	3860	93	3620	94	3390	108	115	-30	91	5070	91	4120	91	3830	92	3540	92	3290	107	114
-25	93	5240	92	4200	92	3950	93	3710	94	3470	108	115	-25	91	5140	91	4180	91	3890	92	3610	92	3370	107	114
-20	93	5350	92	4300	93	4040	93	3790	94	3550	108	115	-20	92	5210	91	4240	91	3940	92	3690	93	3450	107	114
-15	94	5530	93	4450	93	4190	94	3940	94	3690	108	115	-15	92	5390	92	4330	92	4080	93	3830	93	3590	107	114
-10	95	5760	94	4640	94	4370	95	4110	95	3850	108	115	-10	93	5610	92	4510	93	4250	93	3990	94	3740	107	114
-5	97	6280	96	5060	97	4770	97	4480	97	4210	109	115	-5	96	6110	95	4920	95	4630	96	4360	96	4090	108	114
0	101	7010	99	5640	100	5320	100	5000	101	4700	110	115	0	100	6810	98	5470	99	5160	99	4850	99	4560	109	114
													2	101	7120	99	5710	100	5390	100	5070	100	4760	109	114

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS																	
VENR = 137 KIAS								VENR = 135 KIAS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS								
-35	91	4980	91	4050	91	3760	91	3480	91	3210	106	113	-35	91	4840	91	3930	91	3640	91	3370	91	3100	103	111
-30	91	5060	91	4110	91	3820	91	3540	91	3270	106	113	-30	91	4920	91	3990	91	3700	91	3430	91	3160	103	111
-25	91	5120	91	4180	91	3880	91	3590	91	3320	106	113	-25	91	4990	91	4050	91	3760	91	3480	91	3210	103	111
-20	90	5190	90	4240	90	3940	91	3650	91	3370	106	113	-20	90	5050	90	4110	90	3820	90	3530	90	3260	103	111
-15	91	5230	90	4260	91	3960	91	3710	92	3470	106	113	-15	90	5070	90	4120	90	3830	90	3540	90	3270	104	111
-10	92	5440	91	4370	92	4120	92	3870	93	3620	106	113	-10	88	5070	88	4120	88	3830	89	3560	89	3330	104	111
-5	95	5930	94	4770	94	4490	95	4220	95	3950	107	113	-5	91	5480	90	4400	91	4140	91	3880	92	3630	104	111
0	98	6590	97	5290	97	4990	98	4690	98	4400	108	113	0	94	6060	93	4860	94	4570	94	4290	94	4020	105	111
2	100	6880	98	5520	98	5200	99	4900	99	4600	108	113	5	98	6710	96	5370	96	5060	97	4750	97	4460	106	111
5	102	7320	100	5870	100	5530	100	5210	101	4890	109	113	8	100	7130	98	5700	98	5370	98	5050	99	4740	106	111

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS																	
VENR = 131 KIAS								VENR = 125 KIAS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS								
-35	91	4950	91	4030	91	3740	91	3470	91	3200	101	109	-35	91	4940	91	4040	91	3750	91	3480	91	3220	95	105
-30	91	5020	91	4090	91	3810	91	3530	91	3260	101	109	-30	91	5010	91	4100	91	3810	91	3540	91	3270	95	105
-25	91	5090	91	4150	91	3860	91	3580	91	3310	101	109	-25	91	5080	91	4160	91	3870	91	3590	91	3330	95	105
-20	90	5150	90	4210	90	3920	90	3640	90	3360	101	109	-20	91	5140	91	4210	91	3920	91	3650	91	3380	95	105
-15	90	5180	90	4230	90	3940	90	3650	90	3380	101	109	-15	90	5160	90	4230	90	3940	90	3660	90	3390	95	105
-10	89	5190	89	4240	89	3940	89	3660	89	3380	101	109	-10	89	5160	89	4230	89	3940	89	3660	89	3390	95	105
-5	87	5150	87	4200	87	3910	88	3620	88	3350	102	109	-5	86	5120	86	4190	86	3900	86	3620	86	3350	96	104
0	91	5580	90	4460	90	4200	91	3940	91	3680	102	108	0	83	5070	82	4130	83	3840	83	3560	84	3290	97	104
5	94	6140	92	4900	93	4610	93	4330	93	4050	103	108	5	86	5130	85	4090	85	3820	86	3580	86	3340	98	104
8	96	6510	94	5190	94	4890	95	4590	95	4300	104	108	10	88	5600	87	4440	87	4170	88	3900	88	3650	98	103
10	97	6770	95	5400	95	5080	96	4770	96	4480	104	108													

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS																	
VENR = 118 KIAS								VENR = 115 KIAS																	
TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND		ZERO WIND		HEADWINDS			VR V2 KIAS								
	10 KTS	V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS	10 KTS			V1 DIST	V1 DIST	V1 DIST	20 KTS	30 KTS											
	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	KIAS	KIAS	FT	KIAS	FT	KIAS	FT	KIAS	FT	KIAS								
-35	91	4980	91	4080	91	3800	91	3520	91	3260	94	105	-35	92	5010	92	4110	92	3830	92	3560	92	3300	93	104
-30	91	5050	91	4140	91	3860	91	3580	91	3320	93	105	-30	91	5080	91	4180	91	3890	91	3620	91	3360	93	104
-25	91	5110	91	4200	91	3910	91	3630	91	3370	93	104	-25	91	5140	91	4230	91	3950	91	3670	91	3410	92	104
-20	91	5170	91	4250	91	3960	91	3690	91	3420	93	104	-20	91	5200	91	4290	91	4000	91	3720	91	3450	92	104
-15	90	5180	90	4260	90	3970	90	3690	90	3430	93	103	-15	90	5210	90	4290	90	4010	90	3730	90	3460	92	103
-10	89	5180	89	4260	89	3970	89	3690	89	3420	92	102	-10	89	5200	89	4290	89	4000	89	3720	89	3450	91	102
-5	86	5120	86	4200	86	3910	86	3640	86	3370	90	100	-5	86	5140	86	4230	86	3940	86	3660	86	3400	89	99
0	83	5060	83	4140	83	3850	83	3580	83	3310	91	99	0	83	5070	83	4160	83	3870	83	3600	83	3330	88	97
5	80	5000	80	4080	80	3800	80	3520	80	3250	92	99	5	80	5000	80	4090	80	3810	80	3530	80	3270	88	96
10	80	4940	79	4030	80	3740	80	3470	81	3200	92	99	10	77	4940	77	4030	77	3750	77	3480	77	3210	89	96

Figure 7-8 (Sheet 8)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
8000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS							WEIGHT = 12200 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-35	93 5210	92 4200					92 3930	93 3690	94 3450	
-30	93 5320	92 4270	93 4020	93 3770	94 3530	108 115	-30	91 5220	91 4260	91 3960	92 3670	92 3430	107 114
-25	93 5430	92 4370	93 4110	93 3860	94 3620	108 115	-25	92 5290	91 4330	91 4020	92 3750	93 3520	107 114
-20	93 5560	92 4480	93 4220	93 3960	94 3720	108 115	-20	92 5410	91 4380	92 4100	92 3860	93 3610	107 114
-15	94 5820	93 4700	94 4420	94 4160	95 3900	108 115	-15	93 5670	92 4570	93 4300	93 4050	94 3790	107 114
-10	96 6140	95 4960	95 4680	96 4400	96 4130	108 115	-10	95 5980	94 4830	94 4550	95 4280	95 4020	108 114
-5	99 6770	98 5460	98 5150	98 4850	99 4560	109 115	-5	98 6580	96 5310	97 5000	97 4710	98 4420	108 114
-3	101 7080	99 5710	99 5390	100 5080	100 4770	110 115	-2	100 7040	98 5670	99 5350	99 5040	100 4740	109 114
-2	101 7250	100 5840	100 5510	100 5190	101 4880	110 115	0	102 7360	100 5930	100 5600	100 5270	101 4960	109 114

WEIGHT = 12000 LBS							WEIGHT = 11500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-35	91 5130	91 4180					91 3890	91 3600	91 3330	
-30	91 5210	91 4250	91 3950	91 3670	91 3390	106 113	-30	91 5050	91 4110	91 3820	91 3540	91 3270	103 111
-25	90 5280	90 4320	90 4020	91 3730	91 3450	106 113	-25	90 5120	90 4180	90 3880	90 3600	90 3320	103 111
-20	90 5340	90 4370	90 4060	91 3770	91 3500	106 113	-20	90 5180	90 4230	90 3930	90 3640	90 3370	103 111
-15	92 5500	91 4430	91 4170	92 3920	92 3670	106 113	-15	89 5160	89 4210	89 3910	89 3620	89 3380	104 111
-10	93 5800	92 4680	93 4410	93 4140	94 3890	107 113	-10	89 5370	89 4320	89 4060	90 3810	90 3570	104 111
-5	96 6380	95 5140	95 4840	96 4560	96 4280	107 113	-5	93 5890	92 4740	92 4460	92 4190	93 3930	105 111
0	100 7120	98 5730	99 5400	99 5090	99 4780	108 113	0	96 6540	95 5250	95 4940	95 4650	96 4360	105 111
2	101 7440	99 5980	100 5640	100 5310	100 4990	109 113	2	97 6820	96 5470	96 5160	96 4850	97 4550	106 111
							5	99 7270	98 5830	98 5500	98 5170	99 4860	106 111

WEIGHT = 11000 LBS							WEIGHT = 10000 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-35	91 5100	91 4160					91 3870	91 3590	91 3320	
-30	91 5170	91 4230	91 3940	91 3650	91 3380	101 109	-30	91 5160	91 4230	91 3940	91 3660	91 3390	95 105
-25	90 5240	90 4290	90 4000	90 3710	90 3440	101 109	-25	91 5230	91 4300	91 4000	91 3720	91 3450	95 105
-20	90 5300	90 4340	90 4040	90 3760	90 3480	101 109	-20	90 5280	90 4340	90 4050	90 3760	90 3490	95 105
-15	89 5260	89 4300	89 4010	89 3720	89 3440	101 109	-15	89 5230	89 4290	89 4000	89 3720	89 3440	95 105
-10	87 5220	87 4260	87 3970	87 3680	87 3400	101 109	-10	87 5180	87 4240	87 3950	87 3670	87 3400	96 104
-5	89 5430	88 4350	88 4090	89 3840	90 3590	102 109	-5	84 5130	84 4190	84 3900	84 3620	84 3340	97 104
0	92 6000	91 4800	91 4520	92 4240	92 3980	103 108	0	84 5080	83 4140	84 3850	84 3570	85 3300	97 104
5	95 6640	94 5310	94 5000	94 4700	95 4410	104 108	5	87 5520	86 4390	86 4120	87 3860	87 3610	98 104
10	99 7340	96 5860	97 5530	97 5200	97 4880	104 108	10	90 6040	88 4800	89 4510	89 4230	90 3960	99 103

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	
			-35	91 5120	91 4210					91 3920	91 3650	91 3380	
-30	91 5190	91 4270	91 3980	91 3710	91 3440	93 104	-30	91 5230	91 4310	91 4020	91 3740	91 3480	92 104
-25	91 5260	91 4330	91 4040	91 3760	91 3490	93 104	-25	91 5290	91 4370	91 4080	91 3800	91 3530	92 104
-20	91 5300	91 4370	91 4080	91 3800	91 3530	93 104	-20	91 5340	91 4410	91 4120	91 3840	91 3560	92 104
-15	89 5250	89 4320	89 4030	89 3750	89 3480	92 103	-15	89 5270	89 4350	89 4060	89 3780	89 3510	91 102
-10	87 5180	87 4260	87 3970	87 3690	87 3420	91 101	-10	88 5200	88 4280	88 3990	88 3710	88 3440	90 101
-5	84 5120	84 4190	84 3900	84 3630	84 3360	91 99	-5	84 5130	84 4210	84 3920	84 3640	84 3380	88 97
0	81 5050	81 4130	81 3850	81 3570	81 3300	91 99	0	81 5060	81 4140	81 3860	81 3580	81 3310	88 96
5	79 5000	78 4080	78 3790	79 3510	80 3250	92 99	5	78 5000	78 4080	78 3800	78 3520	78 3260	89 96
10	81 4950	80 4030	81 3740	81 3470	82 3200	93 99	10	77 4940	76 4030	77 3740	77 3470	78 3210	89 96

Figure 7-8 (Sheet 9)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
9000 FEET

CONDITIONS: WET RUNWAY ANTI-ICE - ON
RUNWAY GRADIENT - ZERO SPEED BRAKES - RETRACT
LANDING GEAR - DOWN INOPERATIVE ENGINE - WINDMILLING AFTER V1
THRUST ATTENUATORS - AUTO OPERATIVE ENGINE - TAKEOFF THRUST
SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF HEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS							
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS			
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2
	KIAS	FT	FT	KIAS	FT	KIAS	FT		KIAS	FT	FT	KIAS	FT	KIAS	FT
-35	93	5460	92 4390	93 4130	93 3880	94 3630	108 115	-35	92	5320	91 4290	92 4020	92 3770	93 3530	107 114
-30	94	5610	93 4520	93 4250	94 4000	94 3750	108 115	-30	92	5460	92 4400	92 4140	93 3890	93 3640	107 114
-25	94	5760	93 4650	94 4380	94 4120	95 3860	108 115	-25	93	5610	92 4520	92 4260	93 4000	94 3760	107 114
-20	95	6040	94 4880	95 4600	95 4330	96 4070	108 115	-20	94	5890	93 4750	94 4480	94 4210	95 3950	107 114
-15	97	6450	96 5220	96 4920	97 4630	97 4350	109 115	-15	96	6280	95 5070	95 4780	96 4500	96 4230	108 114
-10	100	7020	98 5670	99 5350	99 5040	99 4740	109 115	-10	99	6820	97 5510	97 5200	98 4890	98 4600	108 114
-9	101	7160	99 5790	99 5460	100 5150	100 4840	110 115	-8	100	7100	98 5730	99 5410	99 5100	99 4790	109 114
-8	101	7310	99 5900	100 5570	100 5250	101 4940	110 115	-7	101	7260	99 5860	99 5530	100 5210	100 4900	109 114

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS							
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS			
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2
	KIAS	FT	FT	KIAS	FT	KIAS	FT		KIAS	FT	FT	KIAS	FT	KIAS	FT
-35	90	5250	90 4290	90 3990	91 3700	92 3420	106 113	-35	90	5090	90 4140	90 3850	90 3560	90 3290	103 111
-30	91	5300	90 4330	91 4030	91 3760	92 3530	106 113	-30	90	5140	90 4190	90 3890	90 3610	90 3330	104 111
-25	91	5440	91 4390	91 4130	92 3880	92 3630	106 113	-25	89	5190	89 4230	89 3930	89 3640	89 3370	104 111
-20	93	5710	92 4600	92 4340	93 4080	93 3820	106 113	-20	89	5280	88 4250	89 4000	89 3750	90 3510	104 111
-15	94	6090	93 4920	94 4630	94 4360	95 4090	107 113	-15	91	5630	90 4530	90 4270	91 4010	91 3760	104 111
-10	97	6600	96 5330	96 5020	96 4730	97 4440	107 113	-10	93	6090	92 4900	93 4620	93 4340	93 4070	105 111
-7	99	7020	97 5660	98 5340	98 5030	99 4730	108 113	-5	97	6740	95 5420	95 5110	96 4810	96 4520	106 111
-5	101	7350	99 5920	99 5590	99 5270	100 4950	108 113	-4	97	6900	96 5550	96 5230	96 4920	97 4620	106 111
-4	101	7530	99 6060	100 5720	100 5390	100 5070	108 113	0	100	7530	98 6040	98 5700	99 5370	99 5050	106 111

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS							
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS			
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2
	KIAS	FT	FT	KIAS	FT	KIAS	FT		KIAS	FT	FT	KIAS	FT	KIAS	FT
-35	90	5210	90 4260	90 3970	90 3680	90 3410	101 109	-35	90	5190	90 4260	90 3970	90 3690	90 3420	95 105
-30	90	5260	90 4300	90 4010	90 3720	90 3440	101 109	-30	90	5240	90 4300	90 4010	90 3720	90 3450	95 105
-25	89	5300	89 4340	89 4050	89 3760	89 3480	101 109	-25	89	5280	89 4340	89 4040	89 3760	89 3480	95 105
-20	88	5310	88 4350	88 4050	88 3760	88 3480	101 109	-20	88	5280	88 4330	88 4040	88 3750	88 3480	96 104
-15	87	5280	86 4310	87 4010	87 3720	88 3450	102 109	-15	86	5240	86 4290	86 4000	86 3710	86 3440	96 104
-10	90	5620	89 4510	89 4240	90 3980	90 3730	102 109	-10	83	5190	83 4250	83 3950	83 3670	83 3390	97 104
-5	93	6180	91 4960	92 4670	92 4380	93 4110	103 108	-5	85	5180	84 4200	84 3900	85 3630	85 3390	97 104
0	96	6870	94 5510	95 5190	95 4880	95 4580	104 108	0	88	5700	86 4540	87 4270	87 4000	88 3740	98 103
5	99	7640	97 6100	97 5760	98 5420	98 5090	104 108	5	91	6270	89 4990	89 4700	90 4400	90 4120	99 103
6	100	7810	98 6230	98 5880	98 5530	98 5200	105 108	6	91	6400	90 5090	90 4790	90 4490	91 4210	99 103
								10	94	6910	92 5500	92 5170	92 4860	93 4550	99 103

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
		ZERO WIND		HEADWINDS						ZERO WIND		HEADWINDS			
TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2	TEMP DEG C	TAILWIND 10 KTS	V1 DIST	V1 DIST	10 KTS	20 KTS	30 KTS	VR V2
	KIAS	FT	FT	KIAS	FT	KIAS	FT		KIAS	FT	FT	KIAS	FT	KIAS	FT
-35	91	5220	91 4300	91 4010	91 3730	91 3460	93 104	-35	91	5250	91 4330	91 4040	91 3770	91 3500	92 104
-30	90	5260	90 4330	90 4040	90 3760	90 3490	93 103	-30	90	5290	90 4360	90 4070	90 3790	90 3520	92 103
-25	90	5300	90 4360	90 4070	90 3790	90 3520	92 103	-25	90	5320	90 4390	90 4100	90 3820	90 3550	91 103
-20	88	5280	88 4350	88 4060	88 3780	88 3500	91 102	-20	88	5310	88 4380	88 4090	88 3810	88 3530	91 101
-15	86	5230	86 4300	86 4010	86 3730	86 3460	90 100	-15	86	5250	86 4320	86 4030	86 3750	86 3480	89 99
-10	83	5180	83 4250	83 3960	83 3680	83 3410	91 99	-10	84	5190	84 4260	84 3970	84 3690	84 3420	88 97
-5	80	5110	80 4190	80 3900	80 3620	80 3350	91 99	-5	80	5120	80 4200	80 3910	80 3630	80 3360	88 96
0	79	5060	79 4130	79 3840	80 3560	80 3290	92 99	0	77	5050	77 4130	77 3850	77 3570	77 3300	89 96
5	82	5120	81 4080	81 3800	82 3550	82 3310	93 98	5	77	5000	77 4080	77 3790	78 3520	78 3250	90 96
10	84	5580	83 4410	84 4140	84 3870	84 3610	93 98	10	80	5000	79 4030	79 3740	80 3470	80 3210	90 96

Figure 7-8 (Sheet 10)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
10,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS							
VENR = 141 KIAS								VENR = 140 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-35	94 5790	93 4670	94 4400	94 4140	95 3880	108 115		-35	93 5640	92 4550	92 4280	93 4020	94 3770	107 114	
-30	95 5980	94 4830	94 4550	95 4280	95 4020	108 115		-30	93 5820	92 4700	93 4430	93 4170	94 3910	107 114	
-25	95 6170	94 5000	95 4710	95 4440	96 4170	108 115		-25	94 6010	93 4860	93 4580	94 4310	95 4050	107 114	
-20	97 6650	96 5390	97 5080	97 4790	98 4500	109 115		-20	96 6480	95 5240	95 4940	96 4650	96 4370	108 114	
-15	100 7250	99 5870	99 5540	99 5220	100 4910	109 115		-15	99 7050	97 5700	98 5380	98 5070	98 4770	109 114	
-14	101 7410	99 5990	100 5660	100 5340	100 5020	110 115		-13	100 7370	99 5950	99 5620	99 5300	100 4990	109 114	
-13	102 7580	100 6130	100 5790	101 5460	101 5140	110 115		-12	101 7540	99 6090	100 5750	100 5420	100 5100	109 114	

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS							
VENR = 138 KIAS								VENR = 136 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-35	91 5470	91 4410	91 4150	92 3890	92 3650	106 113		-35	89 5220	89 4260	89 3960	89 3670	89 3390	104 111	
-30	92 5650	91 4560	92 4290	92 4030	93 3780	106 113		-30	89 5260	89 4290	89 3990	89 3710	89 3480	104 111	
-25	92 5830	92 4710	92 4440	93 4170	93 3920	106 113		-25	89 5390	88 4350	89 4090	89 3840	90 3600	104 111	
-20	95 6280	94 5070	94 4780	95 4500	95 4230	107 113		-20	91 5810	90 4680	91 4410	91 4140	92 3890	104 111	
-15	97 6820	96 5510	96 5200	97 4890	97 4600	107 113		-15	94 6290	92 5070	93 4780	93 4490	94 4220	105 111	
-12	99 7290	98 5890	98 5560	99 5240	99 4920	108 113		-10	97 7010	95 5650	96 5330	96 5010	97 4710	106 111	
-10	101 7650	99 6170	100 5830	100 5490	100 5170	108 113		-7	99 7520	97 6040	98 5700	98 5370	98 5050	106 111	

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS							
VENR = 132 KIAS								VENR = 126 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-35	89 5340	89 4380	89 4080	89 3790	89 3510	101 109		-35	89 5320	89 4370	89 4070	89 3790	89 3510	95 105	
-30	89 5370	89 4400	89 4100	89 3810	89 3530	101 109		-30	89 5350	89 4390	89 4100	89 3810	89 3530	95 105	
-25	88 5400	88 4430	88 4130	88 3830	88 3550	101 109		-25	88 5370	88 4410	88 4110	88 3820	88 3550	96 104	
-20	87 5380	87 4400	87 4090	88 3800	88 3560	102 109		-20	86 5330	86 4370	86 4080	86 3790	86 3510	96 104	
-15	90 5790	89 4660	89 4380	90 4120	90 3860	102 109		-15	83 5290	83 4330	83 4030	83 3740	83 3460	97 104	
-10	93 6420	92 5160	92 4860	93 4570	93 4280	103 108		-10	85 5370	84 4290	85 4030	85 3780	86 3540	98 104	
-7	95 6860	94 5510	94 5190	94 4880	95 4580	104 108		-5	88 5950	87 4750	87 4460	88 4190	88 3920	98 103	
-5	97 7190	95 5770	95 5440	96 5120	96 4810	104 108		0	91 6560	90 5230	90 4920	90 4620	91 4330	99 103	
0	100 8010	98 6410	98 6040	98 5690	99 5350	105 108		5	94 7270	92 5780	93 5450	93 5120	93 4800	100 103	
								8	96 7720	94 6140	94 5780	94 5440	95 5100	100 103	

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
VENR = 118 KIAS								VENR = 115 KIAS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT						10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT		
-35	90 5340	90 4400	90 4110	90 3820	90 3550	92 103		-35	90 5370	90 4430	90 4140	90 3850	90 3580	91 103	
-30	89 5360	89 4420	89 4120	89 3840	89 3560	92 102		-30	89 5380	89 4440	89 4150	89 3870	89 3590	91 102	
-25	88 5380	88 4430	88 4130	88 3850	88 3570	92 102		-25	88 5400	88 4450	88 4160	88 3870	88 3600	91 101	
-20	86 5330	86 4380	86 4090	86 3800	86 3530	90 99		-20	86 5340	86 4400	86 4110	86 3820	86 3550	89 99	
-15	83 5270	83 4330	83 4030	83 3750	83 3470	91 99		-15	83 5280	83 4340	83 4050	83 3770	83 3490	88 97	
-10	80 5220	80 4280	80 3980	80 3700	80 3420	92 99		-10	80 5220	80 4280	80 3990	80 3710	80 3440	88 96	
-5	80 5160	79 4220	80 3920	80 3640	81 3370	92 99		-5	77 5150	77 4220	77 3930	77 3650	77 3380	89 96	
0	83 5340	82 4240	82 3970	82 3710	83 3460	93 98		0	78 5090	77 4160	78 3870	78 3590	79 3320	90 96	
5	85 5850	84 4630	84 4350	85 4070	85 3800	94 98		5	81 5230	79 4130	80 3870	80 3610	81 3370	90 96	
8	87 6180	85 4890	86 4590	86 4300	86 4020	94 98		10	83 5710	82 4500	82 4220	82 3950	83 3680	91 95	
10	88 6430	86 5080	87 4770	87 4470	87 4180	94 98									

Figure 7-8 (Sheet 11)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
11,000 FEET

CONDITIONS: WET RUNWAY ANTI-ICE - ON
RUNWAY GRADIENT - ZERO SPEED BRAKES - RETRACT
LANDING GEAR - DOWN INOPERATIVE ENGINE - WINDMILLING AFTER V1
THRUST ATTENUATORS - AUTO OPERATIVE ENGINE - TAKEOFF THRUST
SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE HEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS																	
VENR = 141 KIAS								VENR = 140 KIAS																	
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS										
			10 KTS	20 KTS	30 KTS						10 KTS	20 KTS	30 KTS												
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST													
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT													
-35	95	6320	94	5110	95	4820	95	4540	96	4260	108	115	-35	94	6150	93	4970	94	4690	95	4140	108	114		
-30	96	6520	95	5280	95	4980	96	4690	96	4410	109	115	-30	95	6350	94	5140	94	4850	95	4570	95	4290	108	114
-25	97	6810	96	5520	96	5220	97	4920	97	4620	109	115	-25	96	6630	95	5370	95	5070	96	4780	96	4490	108	114
-20	99	7310	98	5930	98	5600	98	5280	99	4970	109	115	-20	98	7110	97	5760	97	5440	97	5130	98	4830	108	114
-17	100	7660	99	6210	99	5870	100	5540	100	5210	110	115	-16	100	7600	98	6160	99	5820	99	5490	99	5170	109	114
-16	101	7820	99	6340	100	5990	100	5660	101	5330	110	115	-15	101	7770	99	6300	99	5950	100	5610	100	5290	109	114

WEIGHT = 12000 LBS							WEIGHT = 11500 LBS																		
VENR = 139 KIAS							VENR = 136 KIAS																		
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS										
			10 KTS	20 KTS	30 KTS						10 KTS	20 KTS	30 KTS												
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST													
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT													
-35	93	5970	92	4820	92	4540	93	4270	93	4010	107	113	-35	89	5520	88	4440	89	4180	89	3930	90	3680	104	111
-30	93	6160	92	4980	93	4700	93	4420	94	4150	107	113	-30	90	5690	89	4590	89	4320	90	4060	90	3810	104	111
-25	94	6430	93	5210	94	4920	94	4620	95	4350	107	113	-25	91	5940	90	4800	90	4520	91	4260	91	3990	104	111
-20	96	6890	95	5580	95	5260	96	4960	96	4660	107	113	-20	93	6360	92	5140	92	4840	92	4560	93	4280	105	111
-15	99	7520	97	6080	98	5750	98	5420	98	5100	108	113	-15	95	6900	94	5580	94	5260	95	4950	95	4660	105	111
-12	101	8070	99	6530	100	6170	100	5820	100	5480	109	113	-12	97	7400	96	5970	96	5640	96	5310	97	5000	106	111
													-10	99	7750	97	6250	97	5900	98	5560	98	5230	106	111
													-9	100	7930	98	6400	98	6040	98	5700	99	5360	106	111

WEIGHT = 11000 LBS							WEIGHT = 10000 LBS																		
VENR = 132 KIAS							VENR = 126 KIAS																		
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS										
			10 KTS	20 KTS	30 KTS						10 KTS	20 KTS	30 KTS												
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST													
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT													
-35	88	5490	88	4500	88	4190	88	3890	88	3600	101	109	-35	88	5450	88	4480	88	4170	88	3880	88	3590	96	104
-30	87	5530	87	4530	87	4220	87	3920	87	3620	101	109	-30	87	5490	87	4510	87	4200	87	3900	87	3620	96	104
-25	87	5540	86	4540	87	4220	87	3920	88	3660	102	109	-25	86	5490	86	4510	86	4200	86	3900	86	3620	96	104
-20	89	5860	88	4720	88	4440	89	4180	89	3920	102	109	-20	84	5450	84	4470	84	4160	84	3860	84	3580	97	104
-15	91	6340	90	5110	91	4820	91	4530	91	4250	103	108	-15	83	5410	83	4430	83	4120	84	3820	84	3540	97	104
-10	95	7080	93	5700	94	5370	94	5060	94	4750	103	108	-10	87	5890	86	4720	86	4440	86	4160	87	3900	98	104
-9	95	7240	94	5830	94	5500	95	5180	95	4860	104	108	-5	90	6530	88	5230	89	4920	89	4620	90	4330	99	103
-5	98	7940	96	6380	97	6020	97	5670	97	5330	104	108	-3	91	6820	90	5450	90	5130	90	4820	91	4520	99	103
-3	100	8310	98	6670	98	6300	98	5930	98	5580	105	108	0	93	7250	91	5800	91	5460	92	5130	92	4810	99	103
													5	96	8050	94	6420	94	6050	94	5690	95	5340	100	103

WEIGHT = 9000 LBS							WEIGHT = 8500 LBS																		
VENR = 119 KIAS							VENR = 115 KIAS																		
TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS	TEMP DEG C	TAILWIND 10 KTS	ZERO WIND V1 DIST	HEADWINDS			VR V2	KIAS										
			10 KTS	20 KTS	30 KTS						10 KTS	20 KTS	30 KTS												
	V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST			V1 DIST	V1 DIST	V1 DIST	V1 DIST	V1 DIST													
	KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT			KIAS FT	KIAS FT	KIAS FT	KIAS FT	KIAS FT													
-35	88	5460	88	4490	88	4190	88	3900	88	3620	91	101	-35	88	5480	88	4520	88	4220	88	3930	88	3650	90	101
-30	87	5480	87	4520	87	4210	87	3920	87	3640	91	101	-30	87	5500	87	4540	87	4240	87	3950	87	3660	90	101
-25	86	5480	86	4510	86	4210	86	3920	86	3630	90	100	-25	86	5490	86	4530	86	4230	86	3940	86	3650	89	99
-20	84	5430	84	4460	84	4160	84	3870	84	3580	91	99	-20	84	5430	84	4470	84	4170	84	3880	84	3600	88	97
-15	81	5380	81	4410	81	4110	81	3820	81	3540	91	99	-15	82	5380	82	4420	82	4120	82	3830	82	3550	88	97
-10	78	5330	78	4360	78	4060	79	3770	79	3490	92	99	-10	78	5320	78	4360	78	4060	78	3770	78	3490	89	96
-5	81	5350	80	4310	81	4000	81	3730	82	3490	93	98	-5	77	5260	76	4300	77	4000	77	3710	78	3440	89	96
0	84	5860	83	4660	83	4370	84	4100	84	3830	93	98	0	80	5260	79	4250	79	3950	79	3660	80	3400	90	96
5	87	6450	85	5120	86	4810	86	4510	86	4220	94	98	5	82	5740	81	4540	81	4260	82	3980	82	3720	91	95
9	89	6970	87	5530	87	5200	88	4880	88	4560	94	98	9	84	6180	83	4890	83	4590	83	4300	84	4010	91	95

Figure 7-8 (Sheet 12)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
12,000 FEET

CONDITIONS: WET RUNWAY ANTI-ICE - ON
RUNWAY GRADIENT - ZERO SPEED BRAKES - RETRACT
LANDING GEAR - DOWN INOPERATIVE ENGINE - WINDMILLING AFTER V1
THRUST ATTENUATORS - AUTO OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS												
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS			
-35	97 6890	96 5590	96 5280	97 4970	97 4680	109 115	-35	96 6710	94 5440	95 5130	95 4830	96 4550	108 114	-30	96 6920	95 5620	95 5300	96 5000	96 4700	108 114
-30	97 7110	96 5770	97 5450	97 5140	97 4840	109 115	-25	97 7300	96 5930	97 5600	97 5280	97 4970	108 114	-20	99 7790	98 6330	98 5990	98 5650	99 5320	109 114
-25	99 7510	97 6100	98 5770	98 5440	99 5120	109 115	-19	100 7900	98 6420	98 6070	99 5730	99 5400	109 114	-17	101 8240	99 6690	100 6330	100 5970	100 5630	109 114
-20	101 8020	99 6520	99 6170	100 5820	100 5490	110 115														
-19	101 8170	99 6610	100 6250	100 5910	100 5570	110 115														

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS												
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS			
-35	94 6510	93 5270	94 4970	94 4690	94 4400	107 113	-35	90 6020	90 4860	90 4580	91 4310	91 4040	104 111	-30	91 6200	90 5020	91 4730	91 4450	92 4180	104 111
-30	95 6710	94 5440	94 5130	94 4840	95 4550	107 113	-25	92 6530	91 5290	92 4990	92 4700	93 4410	105 111	-20	94 6940	93 5620	93 5310	94 5000	94 4700	105 111
-25	96 7070	95 5740	95 5420	96 5110	96 4810	107 113	-15	97 7630	95 6180	96 5840	96 5500	96 5180	106 111	-12	99 8130	97 6610	98 6250	98 5900	98 5550	106 111
-20	98 7540	96 6120	97 5780	97 5460	97 5140	108 113														
-17	99 7960	98 6460	98 6110	98 5770	99 5430	108 113														
-15	101 8330	99 6750	99 6390	100 6030	100 5680	108 113														

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS												
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS			
-35	87 5640	86 4620	86 4300	87 3990	88 3700	102 109	-35	86 5590	86 4590	86 4280	86 3970	86 3680	96 104	-30	86 5630	86 4620	86 4310	86 4000	86 3710	96 104
-30	87 5710	86 4660	87 4340	88 4080	88 3830	102 109	-25	84 5610	84 4600	84 4290	84 3980	84 3690	97 104	-20	82 5580	82 4560	82 4250	83 3940	83 3650	97 104
-25	89 6020	88 4860	88 4580	89 4300	89 4040	102 109	-15	85 5850	84 4700	85 4420	85 4150	86 3890	97 104	-10	88 6470	87 5190	87 4890	88 4600	88 4310	98 103
-20	90 6390	89 5170	90 4870	90 4580	91 4300	102 108	-6	91 7060	89 5660	90 5330	90 5010	90 4710	99 103	-5	91 7220	90 5790	90 5450	91 5130	91 4810	99 103
-15	93 6980	92 5640	92 5320	92 5010	93 4710	103 108	0	95 8040	93 6430	93 6070	93 5710	93 5360	100 103	2	96 8400	94 6710	94 6330	94 5960	94 5600	100 103
-12	95 7460	93 6030	94 5690	94 5360	95 5040	104 108														
-10	96 7820	95 6310	95 5960	95 5620	96 5280	104 108														
-6	99 8600	97 6920	98 6540	98 6170	98 5810	105 108														

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS												
		ZERO WIND		HEADWINDS			VR V2				ZERO WIND		HEADWINDS			VR V2				
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT	VR V2 KIAS			
-35	86 5580	86 4590	86 4280	86 3990	86 3700	90 100	-35	87 5590	87 4610	87 4300	87 4010	87 3720	89 100	-30	86 5620	86 4640	86 4330	86 4030	86 3740	89 99
-30	86 5610	86 4620	86 4310	86 4010	86 3720	90 100	-25	84 5590	84 4600	84 4290	84 4000	84 3710	88 98	-20	83 5530	83 4550	83 4240	83 3940	83 3660	88 97
-25	84 5580	84 4590	84 4280	84 3980	84 3690	91 99	-15	80 5480	80 4500	80 4190	80 3890	80 3610	88 96	-10	77 5430	77 4440	77 4140	77 3840	77 3560	89 96
-20	83 5540	83 4540	83 4230	83 3930	83 3650	91 99	-5	78 5370	77 4390	78 4080	78 3780	79 3500	90 96	0	81 5770	80 4580	80 4300	81 4020	81 3760	90 96
-15	80 5490	80 4500	80 4190	80 3890	80 3600	92 99	5	84 6330	82 5020	82 4710	83 4410	83 4130	91 95	2	87 6720	85 5350	86 5030	86 4720	86 4420	94 98
-10	80 5440	79 4450	79 4140	80 3840	80 3550	92 99	5	84 6330	82 5020	82 4710	83 4410	83 4130	91 95	5	88 7120	87 5670	87 5330	87 5010	88 4690	94 98
-5	83 5870	82 4680	82 4390	83 4120	83 3850	93 98	6	84 6450	83 5110	83 4800	83 4500	84 4210	91 95	6	89 7270	87 5780	87 5440	88 5110	88 4780	94 98
0	86 6470	84 5150	85 4840	85 4540	85 4250	94 98														
2	87 6720	85 5350	86 5030	86 4720	86 4420	94 98														
5	88 7120	87 5670	87 5330	87 5010	88 4690	94 98														
6	89 7270	87 5780	87 5440	88 5110	88 4780	94 98														

Figure 7-8 (Sheet 13)

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
13,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

HEIGHT = 12375 LBS							VENR = 142 KIAS							HEIGHT = 12200 LBS							VENR = 141 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS							
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT								
-35	98 7540	97 6130	97 5790	98 5460	98 5150	109 114	-35	97 7340	96 5960	96 5630	97 5310	97 5000	108 114	-35	98 7590	96 6170	97 5830	97 5500	97 5180	108 114							
-30	99 7800	97 6350	98 6010	98 5670	99 5340	109 115	-30	98 7590	96 6170	97 5830	97 5500	97 5180	108 114	-30	99 8030	98 6540	98 6180	98 5840	99 5510	109 114							
-25	100 8350	99 6730	99 6370	100 6020	100 5680	110 115	-25	99 8030	98 6540	98 6180	98 5840	99 5510	109 114	-25	100 8510	99 6810	99 6450	100 6090	100 5750	110 115							
-24	100 8510	99 6810	99 6450	100 6090	100 5750	110 115	-22	100 8320	98 6780	98 6410	99 6060	99 5710	109 114	-22	99 8870	100 6980	100 6610	100 6250	101 5890	110 115							
-22	99 8870	100 6980	100 6610	100 6250	101 5890	110 115	-21	100 8490	99 6860	99 6490	99 6130	100 5790	109 114														

HEIGHT = 12000 LBS							VENR = 139 KIAS							HEIGHT = 11500 LBS							VENR = 137 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS							
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT								
-35	96 7110	94 5770	95 5450	95 5140	96 4830	107 113	-35	92 6570	91 5320	91 5020	92 4730	92 4440	105 111	-35	92 6570	91 5320	91 5020	92 4730	92 4440	105 111							
-30	96 7350	95 5970	95 5640	96 5320	96 5010	107 113	-30	92 6780	91 5510	92 5190	92 4890	93 4600	105 111	-30	96 7770	96 6320	97 5980	97 5640	97 5310	108 113							
-25	98 7770	96 6320	97 5980	97 5640	97 5310	108 113	-25	94 7160	93 5810	93 5480	93 5170	94 4860	105 111	-25	99 8150	97 6630	98 6270	98 5920	98 5580	108 113							
-21	99 8150	97 6630	98 6270	98 5920	98 5580	108 113	-20	95 7610	94 6180	94 5840	95 5510	95 5190	105 111	-20	99 8290	98 6750	98 6380	98 6030	99 5680	108 113							
-20	99 8290	98 6750	98 6380	98 6030	99 5680	108 113	-17	97 8080	96 6560	96 6200	96 5850	97 5510	106 111	-17	100 8990	99 7170	100 6780	100 6410	100 6050	109 113							
-17	100 8990	99 7170	100 6780	100 6410	100 6050	109 113	-15	99 8440	97 6840	97 6470	98 6110	98 5760	106 111	-14	99 8640	97 7000	98 6620	98 6260	98 5900	106 111							
							-14	99 8640	97 7000	98 6620	98 6260	98 5900	106 111														

HEIGHT = 11000 LBS							VENR = 133 KIAS							HEIGHT = 10000 LBS							VENR = 127 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS							
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT								
-35	88 6050	87 4880	88 4600	88 4330	89 4060	102 109	-35	85 5740	85 4710	85 4390	85 4080	85 3780	96 104	-35	84 5770	84 4740	84 4420	84 4100	84 3800	97 104							
-30	89 6250	88 5050	88 4760	89 4480	89 4210	102 109	-30	84 5770	84 4740	84 4420	84 4100	84 3800	97 104	-30	89 6590	89 5330	90 5030	90 4740	90 4450	102 108							
-25	90 6590	89 5330	90 5030	90 4740	90 4450	102 108	-25	83 5740	83 4700	83 4380	83 4070	83 3770	97 104	-25	92 6990	90 5660	91 5340	91 5030	92 4730	103 108							
-20	92 6990	90 5660	91 5340	91 5030	92 4730	103 108	-20	84 5850	83 4720	83 4440	84 4170	84 3910	97 104	-15	95 7700	93 6240	93 5890	94 5550	94 5230	103 108							
-15	95 7700	93 6240	93 5890	94 5550	94 5230	103 108	-15	86 6410	86 5170	86 4860	86 4570	87 4290	98 104	-14	95 7880	94 6380	94 6030	94 5680	95 5350	104 108							
-14	95 7880	94 6380	94 6030	94 5680	95 5350	104 108	-10	90 7140	88 5740	89 5410	89 5090	89 4780	99 103	-10	98 8680	96 7010	97 6630	97 6260	97 5890	104 108							
-8	100 9120	98 7360	98 6960	98 6570	98 6190	105 108	-8	91 7470	90 6010	90 5660	90 5330	91 5010	99 103	-5	99 8950	97 7360	98 6960	98 6570	98 6190	105 108							
							0	96 8950	94 7160	94 6760	95 6370	95 6000	100 103														

HEIGHT = 9000 LBS							VENR = 119 KIAS							HEIGHT = 8500 LBS							VENR = 115 KIAS						
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS							
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT								
-35	85 5710	85 4700	85 4380	85 4080	85 3780	90 99	-35	85 5720	85 4710	85 4400	85 4090	85 3800	88 98	-35	84 5740	84 4730	84 4420	84 4110	84 3820	88 97							
-30	84 5740	84 4720	84 4410	84 4100	84 3800	91 99	-30	84 5740	84 4730	84 4420	84 4110	84 3820	88 97	-30	83 5700	83 4680	83 4360	83 4050	83 3760	91 99							
-25	83 5700	83 4680	83 4360	83 4050	83 3760	91 99	-25	83 5690	83 4680	83 4370	83 4060	83 3770	88 97	-25	81 5650	81 4630	81 4320	81 4010	81 3710	91 99							
-20	81 5650	81 4630	81 4320	81 4010	81 3710	91 99	-20	81 5640	81 4630	81 4310	81 4010	81 3720	88 96	-15	78 5610	78 4590	78 4270	79 3960	79 3670	92 99							
-15	78 5610	78 4590	78 4270	79 3960	79 3670	92 99	-15	78 5590	78 4580	78 4270	78 3960	78 3670	89 96	-10	81 5840	80 4670	81 4390	81 4120	82 3850	93 98							
-10	81 5840	80 4670	81 4390	81 4120	82 3850	93 98	-10	77 5540	76 4530	77 4220	77 3910	78 3620	90 96	-5	84 6460	83 5160	83 4860	84 4560	84 4270	93 98							
-5	84 6460	83 5160	83 4860	84 4560	84 4270	93 98	-5	80 5790	79 4610	79 4330	80 4050	80 3790	90 96	0	87 7150	86 5710	86 5370	86 5050	87 4730	94 98							
0	87 7150	86 5710	86 5370	86 5050	87 4730	94 98	0	82 6360	81 5060	82 4750	82 4460	82 4170	91 95	3	89 7590	87 6050	87 5690	88 5350	88 5020	94 98							
3	89 7590	87 6050	87 5690	88 5350	88 5020	94 98	3	84 6730	83 5350	83 5030	83 4720	84 4410	91 95														

Figure 7-8 (Sheet 14)

MODEL 525A

TAKEOFF FIELD LENGTH - FEET
(OVER 15 FOOT SCREEN HEIGHT)

FLAPS - 15°
14,000 FEET

CONDITIONS: WET RUNWAY

ANTI-ICE - ON

RUNWAY GRADIENT - ZERO

SPEED BRAKES - RETRACT

LANDING GEAR - DOWN

INOPERATIVE ENGINE - WINDMILLING AFTER V1

THRUST ATTENUATORS - AUTO

OPERATIVE ENGINE - TAKEOFF THRUST

SOME CONDITIONS DO NOT MEET CLIMB REQUIREMENTS. OBTAIN ALLOWABLE WEIGHT FROM MAXIMUM TAKEOFF WEIGHT TABLES.

WEIGHT = 12375 LBS								WEIGHT = 12200 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	100 8270	98 6740					99 6380	99 6020	99 5680		109 115	-35
-31	99 8730	99 6960	99 6590	100 6230	100 5880	110 115	-30	99 8390	98 6830	98 6470	99 6110	99 5770	109 114		
-30	99 8890	99 7040	99 6670	100 6300	100 5950	110 115	-28	99 8650	98 6980	99 6610	99 6250	99 5900	109 114		
-28	99 9220	100 7190	100 6810	100 6440	101 6080	110 115	-25	99 9160	99 7210	99 6830	100 6460	100 6100	109 114		

WEIGHT = 12000 LBS								WEIGHT = 11500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	97 7780	96 6330					96 5980	96 5650	97 5320		107 113	-35
-30	98 8110	96 6610	97 6250	97 5900	98 5560	108 113	-30	94 7460	93 6070	93 5730	94 5410	94 5090	105 111		
-25	99 8550	98 6970	98 6600	98 6240	99 5880	108 113	-25	95 7850	94 6380	94 6040	95 5700	95 5370	105 111		
-20	99 9630	99 7500	100 7110	100 6720	100 6340	109 113	-20	97 8430	96 6860	96 6490	96 6130	97 5780	106 111		
							-17	99 8940	97 7260	98 6880	98 6500	98 6130	106 111		

WEIGHT = 11000 LBS								WEIGHT = 10000 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	89 6600	89 5350					89 5040	89 4750	90 4460		102 109	-35
-30	90 6860	89 5570	90 5260	90 4950	91 4650	102 108	-30	82 5900	82 4840	82 4510	83 4190	83 3880	97 104		
-25	91 7210	90 5850	91 5520	91 5210	92 4900	103 108	-25	84 6040	83 4870	83 4590	84 4320	84 4050	97 104		
-20	93 7710	92 6260	92 5910	93 5580	93 5250	103 108	-20	85 6440	84 5200	85 4900	85 4610	86 4330	98 104		
-17	95 8160	93 6620	94 6260	94 5910	94 5560	104 108	-15	88 7060	87 5700	87 5370	88 5060	88 4750	98 103		
-15	96 8540	95 6930	95 6550	95 6180	96 5830	104 108	-11	91 7710	89 6220	90 5870	90 5530	90 5200	99 103		
-11	99 9420	97 7620	98 7210	98 6810	98 6420	105 108	-10	91 7890	90 6360	90 6010	91 5660	91 5320	99 103		
							-5	95 8880	93 7140	93 6750	93 6360	94 5990	100 103		
							-4	96 9100	93 7310	94 6910	94 6510	94 6130	100 103		

WEIGHT = 9000 LBS								WEIGHT = 8500 LBS							
TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS	TEMP DEG C	TAILWIND 10 KTS V1 DIST KIAS FT	ZERO WIND V1 DIST KIAS FT	HEADWINDS			VR V2 KIAS		
			10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT					10 KTS V1 DIST KIAS FT	20 KTS V1 DIST KIAS FT	30 KTS V1 DIST KIAS FT			
			-35	83 5850	83 4810					83 4490	83 4170	83 3870		91 99	-35
-30	82 5850	82 4810	82 4480	82 4170	82 3870	91 99	-30	83 5840	83 4810	83 4490	83 4170	83 3870	88 97		
-25	81 5810	81 4770	81 4440	81 4130	81 3820	91 99	-25	81 5800	81 4760	81 4440	81 4130	81 3830	88 96		
-20	79 5770	79 4730	79 4400	79 4090	79 3780	92 99	-20	79 5750	79 4720	79 4390	79 4080	79 3780	89 96		
-15	80 5800	79 4690	79 4370	80 4100	80 3840	92 99	-15	77 5700	77 4670	77 4350	77 4040	77 3740	89 96		
-10	83 6410	82 5140	82 4840	83 4540	83 4260	93 98	-10	78 5760	77 4620	78 4320	78 4050	79 3790	90 96		
-5	86 7130	84 5710	85 5380	85 5050	85 4740	94 98	-5	81 6360	80 5080	80 4770	81 4480	81 4190	90 96		
-4	86 7290	85 5840	85 5500	86 5170	86 4850	94 98	0	84 7020	83 5600	83 5270	83 4940	84 4630	91 95		
0	89 7910	87 6330	87 5960	88 5610	88 5260	94 98									

8888-01-01

Figure 7-8 (Sheet 15)

DATA FOR WET, SLUSH, SNOW AND ICE COVERED RUNWAYS

ADVERSE RUNWAY TAKEOFF PERFORMANCE

Determine the dry runway takeoff field length, V_1 , V_R , V_2 and V_{ENR} as described in Procedure for Use of Takeoff Performance Tables in Section IV of the basic FAA Approved Airplane Flight Manual. Any runway gradient adjustment for dry runway field length and V_1 should be applied. From Figure 7-9 (flaps 0°) or Figure 7-10 (flaps 15°) determine the takeoff field length for the precipitation type and depth.

EXAMPLE FOR TAKEOFF WITH FLAPS UP:

Pressure Altitude = 1000 FEET
Gross Weight = 12,000 POUNDS
Ambient Temperature = 10°C
Wind = 10 KNOTS (HEADWIND)

Runway Gradient = ZERO (level)
Anti-Ice Systems = OFF
Runway Condition = 0.125 INCHES of water

From Figure 4-19, the Takeoff Field Length is 3600 FEET (dry runway, anti-ice systems off).
 $V_1 = 110$ KNOTS, $V_R = 116$ KNOTS, $V_2 = 123$ KNOTS, $V_{ENR} = 135$ KNOTS.

From Figure 7-9 for a takeoff on a runway covered with 0.125 inches of water, the takeoff field length is 9350 FEET. $V_1 = 110$ KNOTS, $V_R = 116$ KNOTS, $V_2 = 123$ KNOTS, $V_{ENR} = 135$ KNOTS.

EXAMPLE FOR TAKEOFF FLAPS 15°:

Pressure Altitude = 2000 FEET
Gross Weight = 12,200 POUNDS
Ambient Temperature = 0°C
Wind = 10 KNOTS (HEADWIND)

Runway Gradient = ZERO (level)
Anti-Ice Systems = ON
Runway Condition = 0.125 INCHES of slush

From Figure 4-25, the Takeoff Field Length is 3400 FEET (dry runway, anti-ice systems on).
 $V_1 = 105$ KNOTS, $V_R = 107$ KNOTS, $V_2 = 114$ KNOTS, $V_{ENR} = 137$ KNOTS.

From Figure 7-10 for a takeoff on a runway covered with 0.125 inches of slush, the takeoff field length is 7850 FEET. $V_1 = 105$ KNOTS, $V_R = 107$ KNOTS, $V_2 = 114$ KNOTS, $V_{ENR} = 137$ KNOTS.

(Continued Next Page)

MODEL 525A

DATA FOR WET, SLUSH, SNOW AND ICE COVERED RUNWAYS (Continued)

ADVERSE RUNWAY LANDING PERFORMANCE

Determine the dry runway landing distance, V_{APP} and V_{REF} as described in Procedures for Use of Approach and Landing Performance Tables in Section IV of the basic FAA Approved Airplane Flight Manual. Any runway gradient adjustment for dry runway landing distance should be applied. From Figure 7-11 (V_{REF}) and Figure 7-12 ($V_{REF} + 10$ KNOTS) determine the landing distances for precipitation type and depth. The difference between V_{REF} figure and ($V_{REF} + 10$ KNOTS) figure presents the comparison in distances of an overspeed at V_{REF} .

NOTE

The published limiting maximum tailwind component for this airplane is 10 knots. However, landings on precipitation covered runways with any tailwind component are not recommended.

EXAMPLE FOR LANDING WITH FLAPS LAND:

Pressure Altitude = 3000 FEET
 Gross Weight = 10,500 POUNDS
 Ambient Temperature = 5°C
 Wind = 10 KNOTS (HEADWIND)

Runway Gradient = ZERO (level)
 Anti-Ice Systems = OFF
 Runway Condition = 0.125 INCHES of water

From Figure 4-47, the Landing Distance is 2800 FEET (dry runway). $V_{APP} = 113$ KNOTS, $V_{REF} = 106$ KNOTS.

From Figure 7-11 for a landing at V_{REF} ($V_{REF} = 106$ KNOTS) on a runway covered with 0.125 inches of water, the landing distance is 5900 FEET.

FOR COMPARISON OF OVERSPEED:

From Figure 7-12 for a landing at $V_{REF} + 10$ KNOTS ($V_{REF} = 116$ KNOTS) on a runway covered with 0.125 inches of water the landing distance is 6550 FEET.

TAKEOFF FIELD LENGTH - FEET

FLAPS - 0°

DRY RUNWAY THRUST ATTENUATORS - AUTO	ADVERSE RUNWAY CONDITIONS (THRUST ATTENUATORS - AUTO, 15 FT SCREEN HEIGHT)								
	WATER COVERED RUNWAY - INCHES*			SLUSH COVERED RUNWAY - INCHES*			SNOW INCHES*	COMPACT SNOW	WET ICE
	0.125	0.2	0.25	0.125	0.2	0.3			
							1.0		
1800	3900	3600	3450	3900	3650	3450	3750	3050	8800
2000	4350	4050	3850	4350	4050	3750	4150	3400	9900
2200	4950	4550	4300	4800	4450	4150	4500	3700	10900
2400	5550	5000	4750	5300	4850	4500	4850	4050	12000
2600	6100	5550	5200	5850	5350	4900	5200	4400	12900
2800	6750	6000	5700	6450	5850	5350	5500	4750	14100
3000	7400	6600	6200	7050	6400	5750	5800	5100	15250
3200	8050	7150	6750	7650	6850	6150	6100	5450	
3400	8700	7800	7250	8200	7350	6650	6450	5750	
3600	9350	8350	7850	8800	7900	7000	6750	6050	
3800	9850	8850	8350	9250	8350	7500	7100	6300	
4000	10450	9400	8900	9800	8800	7950	7400	6550	
4200	10950	9900	9450	10250	9300	8400	7700	6800	
4400	11500	10450	9950	10750	9800	8900	8050	7100	
4600	12000	10950	10400	11200	10250	9250	8350	7300	
4800	12500	11550	10900	11650	10650	9650	8700	7550	
5000	13000	12000	11350	12150	11200	10100	9000	7800	
5200	13500	12500	11750	12600	11650	10550	9300	8050	
5400	13950	12900	12150	13100	12100	10900	9650	8300	
5600	14300	13300	12550	13500	12500	11350	9950	8550	
5800	14750	13700	12950	13850	12900	11800	10250	8850	
6000	15100	14150	13300	14250	13300	12200	10600	9100	
6200		14500	13700	14650	13700	12650	10900	9350	
6400		14850	14100	15100	14050	13050	11250	9550	
6600		15300	14500		14500	13500	11550	9800	
6800			14900		15000	13900	11850	10050	
7000			15300		15550	14350	12200	10250	
7200						14750	12500	10450	
7400						15200	12800	10650	
7600							13150	10900	
7800							13450	11100	
8000							13800	11300	
8200							14100	11500	
8400							14400	11700	
8600							14750	11850	
8800							15050	12050	
9000								12250	
9500								12700	
10000								13100	
10500								13450	
11000								13800	
11500								14150	
12000								14450	
13000								15000	

* Takeoffs should not be attempted in any precipitation depth greater than the highest depth presented or if any of the following limits are exceeded.

Contaminate	Altitude	Temperature	Gross Weight	Wind
0.25 Inches Water	No Limitation	Greater than ISA	Greater than 10,000 lbs	No Limitation
0.3 Inches Slush	Greater than 6,000 ft	Greater than ISA	Greater than 10,500 lbs	No Limitation
1.0 Inch Snow	Greater than 5,000 ft	Greater than ISA	Greater than 10,000 lbs	Any Tailwind

 Figure 7-9

TAKEOFF FIELD LENGTH - FEET

FLAPS - 15°

DRY RUNWAY THRUST ATTENUATORS - AUTO	ADVERSE RUNWAY CONDITIONS (THRUST ATTENUATORS - AUTO, 15 FT SCREEN HEIGHT)								
	WATER COVERED RUNWAY - INCHES*			SLUSH COVERED RUNWAY - INCHES*			SNOW INCHES*	COMPACT SNOW	WET ICE
	0.125	0.2	0.25	0.125	0.2	0.3			
1800	3750	3400	3300	3800	3600	3400	3650	2950	8150
2000	4200	3800	3700	4200	3950	3750	4000	3400	9250
2200	4700	4200	4050	4650	4350	4100	4400	3700	10250
2400	5250	4650	4450	5050	4750	4450	4750	4050	11200
2600	5750	5100	4900	5650	5150	4850	5100	4350	12100
2800	6400	5600	5350	6150	5650	5250	5450	4700	13250
3000	7050	6100	5850	6750	6150	5700	5850	5050	14450
3200	7650	6650	6350	7300	6650	6100	6150	5400	15250
3400	8300	7150	6800	7850	7150	6550	6450	5700	
3600	8850	7650	7300	8400	7600	6950	6750	6000	
3800	9300	8200	7800	8800	8050	7300	7050	6200	
4000	9850	8650	8250	9250	8450	7700	7400	6400	
4200	10300	9150	8700	9750	8900	8100	7700	6650	
4400	10800	9650	9100	10150	9350	8450	8050	6900	
4600	11300	10150	9550	10650	9750	8800	8350	7150	
4800	11800	10600	10000	11100	10100	9200	8650	7400	
5000	12300	11100	10400	11550	10450	9550	8950	7650	
5200	12750	11550	10850	11950	10800	9950	9300	7950	
5400	13050	12050	11200	12300	11000	10300	9600	8150	
5600	13350	12400	11550	12600	11200	10650	9900	8350	
5800	13600	12750	12000	12850	11450	11050	10250	8500	
6000	13850	13150	12400	13150	11650	11500	10550	8700	
6200	14150	13450	12800	13350	11850	11850	10850	8850	
6400	14450	13850	13250	13600	12050	12250	11150	9000	
6600	14750	14300	13600	13850	12250	12650	11500	9150	
6800	15050	14750	14050	14100	12450	13050	11750	9300	
7000		15250	14450	14350	12650	13450	12100	9400	
7200			14850	14600	12800	13800	12450	9450	
7400				14800	13000	14200	12750	9550	
7600				15000	13200	14500	13050	9600	
7800				15200	13400	14900	13350	9700	
8000					13600	15250	13700	9800	
8200					13800		14000	9850	
8400					14000		14300	9950	
8600					14200		14650	10000	
8800					14400		14950	10100	
9000					14600		15250	10150	
9500					15100			10450	
10000								10800	
10500								11200	
11000								11700	
11500								12350	
12000								13100	
13000								15000	

* Takeoffs should not be attempted in any precipitation depth greater than the highest depth presented or if any of the following limits are exceeded.

Contaminate	Altitude	Temperature	Gross Weight
0.25 Inches Water	Greater than 12,000 ft	Greater than ISA	Greater than 10,500 lbs
0.2 Inches Slush	Greater than 10,000 ft	Greater than ISA+15°C	Greater than 11,000 lbs
0.3 Inches Slush	Greater than 4,000 ft	Greater than ISA	Greater than 10,500 lbs
1.0 Inch Snow	Greater than 4,000 ft	Greater than ISA	Greater than 10,500 lbs

Figure 7-10

LANDING DISTANCE - FEET

FLAPS - LAND

Airspeed - V_{REF}

GROUND FLAPS - AFTER TOUCHDOWN

DRY RUNWAY THRUST ATTENUATORS- AUTO	ADVERSE RUNWAY CONDITIONS (THRUST ATTENUATORS - AUTO, V_{REF} , WITHOUT TAILWINDS, 50 FT SCREEN HEIGHT)														
	WET RUNWAY	WATER COVERED RUNWAY - INCHES					SLUSH COVERED RUNWAY - INCHES					SNOW INCHES		COMPACT SNOW	WET ICE
		0.125	0.2	0.3	0.4	0.5	0.125	0.2	0.3	0.4	0.5	1.0	2.0		
1800	2550	3700	3500	3300	3150	3000	5200	4950	4650	4400	4150	5050	4500	2500	7550
2000	2900	4250	4050	3800	3550	3350	6650	6200	5700	5400	4950	6300	5550	2800	8750
2200	3250	4850	4550	4250	4000	3750	6950	6500	6100	5700	5500	6800	6000	3050	10350
2400	3550	5300	4950	4600	4300	4050	7150	6650	6200	5900	5700	7000	6200	3300	12250
2600	3800	5600	5250	4900	4600	4350	7250	6750	6300	6000	5900	7100	6300	3550	14550
2800	4050	5900	5550	5200	4900	4650	7300	6800	6350	6100	6050	7250	6400	3800	15300
3000	4350	6250	5950	5500	5250	4950	7450	6900	6450	6200	6150	7300	6500	4050	
3200	4650	6650	6300	5900	5550	5250	7500	7000	6550	6350	6300	7400	6650	4300	
3400	4900	7050	6650	6250	5900	5600	7650	7100	6750	6500	6400	7500	6650	4550	
3600	5200	7500	7100	6650	6250	5950	7850	7350	7000	6700	6550	7600	6700	4850	
3800	5500	7950	7500	7000	6600	6300	8100	7700	7200	6900	6700	7750	6850	5100	
4000	5800	8400	7950	7450	7000	6650	8500	8050	7500	7100	6850	7850	6950	5350	
4200	6100	8850	8350	7850	7400	7050	8900	8450	7850	7400	7050	8000	7150	5600	
4400	6350	9250	8750	8200	7750	7400	9300	8850	8250	7750	7350	8200	7300	5900	
4600	6650	9750	9200	8650	8150	7750	9700	9150	8600	8050	7700	8450	7500	6200	
4800	6950	10150	9650	9050	8550	8150	10050	9550	8900	8400	8000	8650	7650	6400	
5000	7250	10650	10100	9450	8950	8550	10450	9900	9250	8750	8300	8850	7800	6650	
5200	7550	11050	10500	9900	9400	8950	10850	10200	9600	9050	8650	9100	7950	6950	
5400	7850	11500	10950	10300	9800	9350	11250	10550	9950	9400	9000	9300	8150	7200	
5600	8150	11950	11400	10700	10200	9700	11700	11000	10300	9750	9300	9550	8350	7450	
5800	8450	12400	11800	11150	10600	10100	12050	11400	10700	10100	9650	9750	8500	7700	
6000	8750	12850	12250	11550	11000	10500	12450	11750	11050	10450	10000	10000	8700	7950	
6200	9050	13300	12650	11950	11400	10900	12850	12150	11400	10800	10300	10200	8900	8200	
6400	9300	13750	13100	12400	11800	11300	13200	12500	11750	11150	10650	10400	9050	8450	
6600	9600	14200	13550	12800	12200	11650	13500	12850	12100	11500	11000	10600	9250	8700	
6800	9900	14650	13950	13250	12550	12050	13900	13200	12450	11850	11300	10850	9450	8950	
7000	10200	15050	14400	13650	13000	12450	14250	13600	12800	12200	11650	11050	9600	9200	
7200	10500		14800	14050	13400	12850	14650	13950	13200	12550	12000	11300	9800	9500	
7400	10800		15200	14500	13800	13250	15050	14300	13550	12900	12300	11500	10000	9750	
7600	11100		14900	14200	13650			14700	13900	13250	12650	11700	10150	10000	
7800	11400			15300	14600	14000		15050	14250	13550	13000	11950	10350	10250	
8000	11700				15000	14400			14600	13900	13300	12150	10550	10500	
8500	12450					15400			15500	14800	14150	12700	11000	11150	
9000	13150									15650	15000	13250	11450	11750	
9500	13900										15800	13850	11900	12400	
10000	14650											14400	12350	13050	
11000	16150											15500	13300	14300	
12000												14200	15600		

NOTE

The published limiting maximum tailwind component for this airplane is 10 knots: however, Cessna does not recommend landings on precipitation-covered runways with any tailwind component. If a tailwind landing cannot be avoided, multiply the above data by the following factor:

TAILWIND FACTOR	WET RUNWAY	WATER COVERED RUNWAY - INCHES					SLUSH COVERED RUNWAY - INCHES					SNOW INCHES		COMPACT SNOW	WET ICE
		0.125	0.2	0.3	0.4	0.5	0.125	0.2	0.3	0.4	0.5	1.0	2.0		
	1.05	1.15	1.12	1.09	1.07	1.06	1.57	1.52	1.45	1.37	1.27	1.48	1.39	1.04	*

* Landings with any tailwind should not be attempted on wet ice.

 Figure 7-11

MODEL 525A

LANDING DISTANCE - FEET

FLAPS - LAND

Airspeed - $V_{REF} + 10$ KNOTS

GROUND FLAPS - AFTER TOUCHDOWN

DRY RUNWAY THRUST ATTENUATORS- AUTO	ADVERSE RUNWAY CONDITIONS (THRUST ATTENUATORS - AUTO, $V_{REF}+10$, WITHOUT TAILWINDS, 50 FT SCREEN HEIGHT)														COMPACT SNOW	WET ICE
	WET RUNWAY	WATER COVERED RUNWAY - INCHES					SLUSH COVERED RUNWAY - INCHES					SNOW INCHES				
		0.125	0.2	0.3	0.4	0.5	0.125	0.2	0.3	0.4	0.5	1.0	2.0			
1800	3000	4150	3950	3700	3500	3350	5650	5350	5050	4750	4500	5500	4950	2850	8150	
2000	3350	4750	4500	4200	3950	3750	7000	6650	6200	5800	5500	6450	5750	3250	9350	
2200	3750	5400	5050	4700	4350	4150	7450	7050	6500	6050	5700	7150	6500	3550	11000	
2400	4050	5900	5500	5050	4700	4450	7550	7200	6600	6150	5750	7150	6550	3800	12900	
2600	4400	6200	5850	5400	5100	4800	7600	7250	6650	6200	5800	7200	6550	4100	15150	
2800	4700	6550	6200	5800	5450	5150	7650	7300	6700	6250	5850	7250	6550	4400		
3000	5000	6950	6600	6150	5850	5550	7700	7400	6750	6300	5950	7300	6600	4750		
3200	5350	7450	7050	6600	6250	5950	7800	7500	6900	6450	6100	7350	6600	5050		
3400	5700	7900	7450	7000	6650	6300	8050	7700	7150	6800	6400	7450	6700	5300		
3600	6000	8400	7950	7450	7100	6750	8500	8050	7500	7150	6750	7700	6800	5600		
3800	6300	8850	8400	7900	7500	7100	8950	8500	7900	7500	7150	8000	7050	5850		
4000	6600	9400	8900	8400	7950	7600	9400	8900	8350	7900	7500	8300	7300	6150		
4200	6950	9900	9400	8850	8400	8000	9900	9400	8800	8300	7900	8650	7600	6450		
4400	7250	10350	9850	9300	8800	8400	10400	9850	9250	8750	8300	9000	7900	6700		
4600	7550	10900	10350	9750	9250	8850	10850	10250	9650	9150	8700	9250	8100	7050		
4800	7850	11250	10700	10100	9550	9150	11150	10550	9950	9450	9000	9600	8400	7300		
5000	8200	11750	11150	10500	10000	9550	11550	11000	10350	9850	9400	9900	8700	7600		
5200	8550	12200	11600	10950	10400	9950	12000	11400	10750	10200	9750	10250	9000	7900		
5400	8850	12650	12050	11350	10800	10300	12400	11800	11150	10600	10100	10500	9300	8200		
5600	9200	13150	12500	11800	11200	10700	12800	12200	11550	10950	10500	10850	9600	8500		
5800	9500	13600	12900	12200	11600	11050	13200	12600	11900	11300	10850	11250	10000	8800		
6000	9850	14050	13350	12600	12000	11450	13600	13000	12300	11650	11200	11550	10250	9100		
6200	10150	14500	13800	13000	12400	11850	14000	13400	12700	12050	11550	11900	10600	9350		
6400	10450	14950	14250	13450	12800	12200	14450	13800	13050	12450	11950	12300	10900	9650		
6600	10800	15450	14700	13850	13150	12600	14850	14150	13450	12800	12250	12700	11200	9950		
6800	11100		15100	14250	13550	12950	15250	14550	13850	13200	12650	13050	11550	10250		
7000	11450			14700	13950	13350		14950	14200	13550	13050	13450	11900	10550		
7200	11750			15050	14350	13750		15350	14600	13950	13400	13900	12250	10850		
7400	12100				14750	14100			15000	14300	13750	14350	12550	11150		
7600	12350				15150	14500			15400	14700	14100	14800	12900	11450		
7800	12700					14850				15050	14500	15300	13200	11700		
8000	13050					15250					14850		13500	12000		
8500	13850										15750		14450	12750		
9000	14650											15300	13500	13500		
9500	15450												14200	14200		
10000													14950	14950		
11000													16400	16400		
12000																

NOTE

The published limiting maximum tailwind component for this airplane is 10 knots: however, Cessna does not recommend landings on precipitation-covered runways with any tailwind component. If a tailwind landing cannot be avoided, multiply the above data by the following factor:

TAILWIND FACTOR	WET RUNWAY	WATER COVERED RUNWAY - INCHES					SLUSH COVERED RUNWAY - INCHES					SNOW INCHES		COMPACT SNOW	WET ICE
		0.125	0.2	0.3	0.4	0.5	0.125	0.2	0.3	0.4	0.5	1.0	2.0		
	1.03	1.14	1.10	1.08	1.05	1.04	1.56	1.48	1.45	1.40	1.37	1.55	1.42	1.03	*

* Landings with any tailwind should not be attempted on wet ice.

Figure 7-12

CREW TRAINING REQUIREMENTS

In addition to the minimum crew requirements specified in Section 2, Limitations, Cessna recommends that the pilot in command complete an FAA approved proficiency check as required for more-than-one-required-pilot operation by FAR 61.58 regardless of whether the airplane is to be operated by a single required pilot or more than one required pilot.

GROUND DEICE/ANTI-ICE OPERATIONS

During cold weather operations, flight crews are responsible for ensuring the airplane is free of ice contaminants.

Ground icing may occur whenever there is high humidity with temperatures of +10°C or colder. Type I deice, and Type II or Type IV anti-ice fluids may be used sequentially to ensure compliance with FAA regulations (clean wing concept) requiring critical component airframe deicing and anti-icing.

NOTE

It is recommended that flight crews refamiliarize themselves seasonally with the following publications for expanded deice and anti-ice procedures:

- Cessna Maintenance Manual Chapter 12.
- FAA Advisory Circular AC 120-58 (large aircraft), dated September 30, 1992 or later.
- FAA Advisory Circular AC 135-17 (small aircraft), dated December 14, 1994 or later.
- Cessna Citation Service Letter 525-30-03, dated May 29, 1998 or later.

DEICING/ANTI-ICING PROCEDURES (TYPE I, TYPE II, AND TYPE IV FLUIDS)

ONE STEP DEICING - Type I fluid is used to remove ice, slush and snow from the airplane prior to departure, and to provide minimal anti-icing protection as provided in the Type I holdover timetable (refer to applicable service letter).

TWO STEP DEICE/ANTI-ICE - May be used to ensure the airplane remains clean after deicing. Type II or Type IV fluid is used to provide longer term anti-icing protection as provided in the Type II or Type IV holdover timetable (refer to applicable service letter).

CAUTION

TYPE I, TYPE II, AND TYPE IV FLUIDS ARE NOT COMPATIBLE AND MAY NOT BE MIXED. ADDITIONALLY, MOST MANUFACTURERS PROHIBIT MIXING OF BRANDS WITHIN A TYPE.

(Continued Next Page)

TEMPORARY FAA APPROVED AIRPLANE FLIGHT MANUAL CHANGE

Publication Affected: Model 525A Citation CJ2 (525A-0001 thru -0299) basic FAA Approved Airplane Flight Manual, Revision 6, dated 15 April 2005.

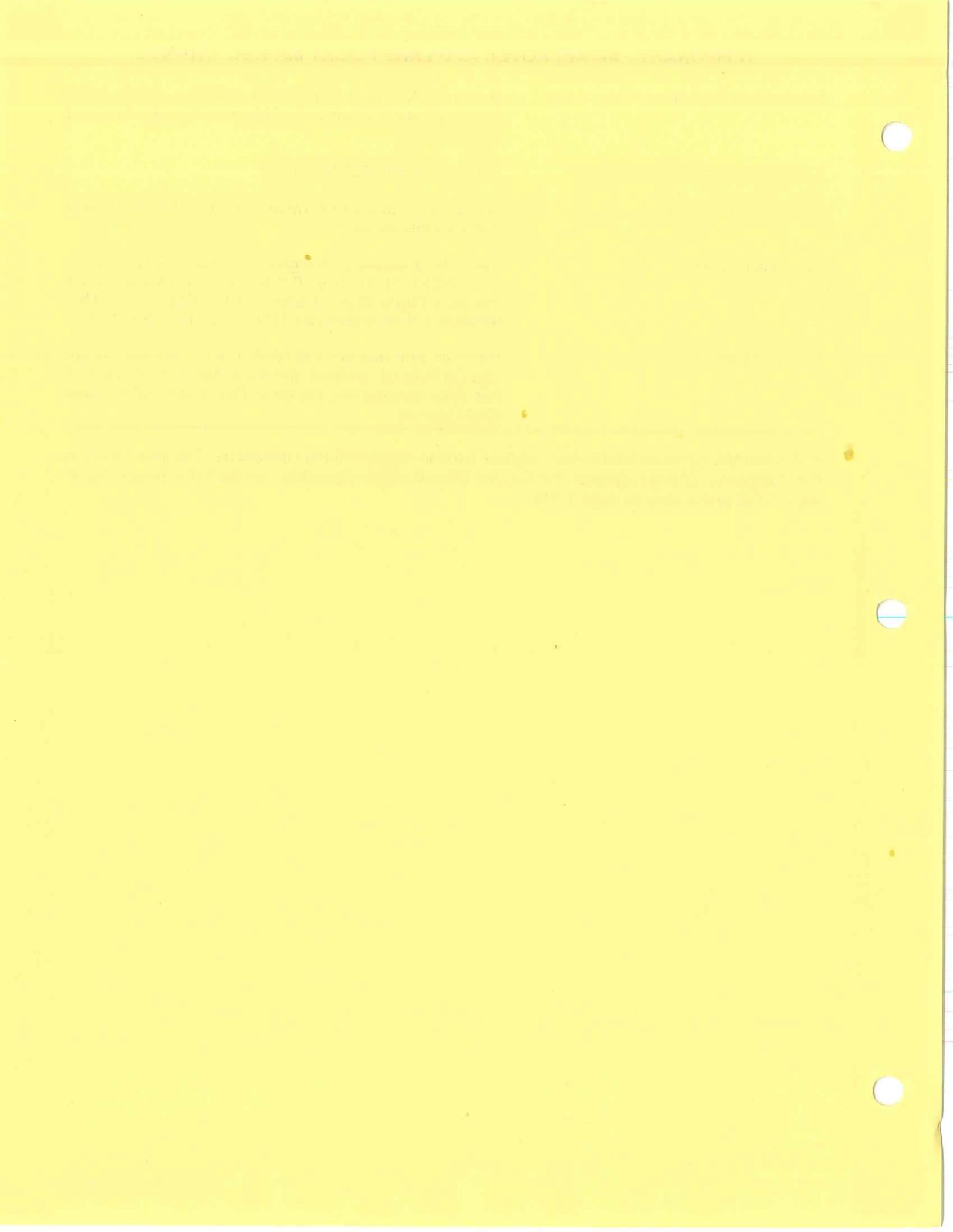
Airplane Serial Numbers Affected: Airplanes 525A-0001 thru -0299.

Description of Change: Section VII, Advisory Information, replace Ground Deice/ Anti-Ice Operations.

Filing Instructions: Insert this temporary change in the Model 525A Citation CJ2 (525A-0001 thru -0299) basic FAA Approved Airplane Flight Manual adjacent to page 7-106. This temporary change replaces FMTC-ALL-02 in its entirety.

Removal Instructions: Remove and discard FMTC-ALL-02. This temporary change must be removed and discarded when Revision 7 has been collated into the basic FAA Approved Airplane Flight Manual.

In Section VII, Advisory Information, replace Ground Deice/Anti-Ice Operations. The information in this Temporary Change replaces the Ground Deice/Anti-Ice Operations procedures, beginning on page 7-106 and ending on page 7-110.



GROUND DEICE/ANTI-ICE OPERATIONS (Continued)

SPRAYING TECHNIQUE - TYPE II, TYPE III AND TYPE IV FLUIDS

Application techniques for Type II, Type III and Type IV fluids are the same as for Type I, except that since the airplane is already clean, the application should last only long enough to properly coat the airplane surfaces. Refer to Figures 7-13 and 7-14 for essential areas to be deiced/anti-iced.

Type II, Type III and Type IV fluids should be applied cold to a "clean" airplane. They are, however, sometimes heated and sprayed as a deicing fluid. For this case, it should be considered a Type I fluid, as the heat may change the characteristics of the thickening agents in the fluid. Type II, Type III and Type IV fluids, applied in this manner, will not be as effective as if they were applied cold.

NOTE

- Holdover time starts when last application has begun.
- Some Type II and Type IV fluids can form a thick or high-strength gel during "dry-out" and when rehydrated form a slippery film.
- Type II, III and IV fluids exhibit poor aerodynamic elimination (flow-off) qualities at colder temperatures.
- Heated areas of the airplane (i.e., heated leading edges) should be avoided due to the fact that the fluid may "dry-out" into hard globular nodules.

PRETAKEOFF CONTAMINATION CHECK - GROUND ICING CONDITIONS

When ground icing conditions are present, in addition to the tactile check required in Section II, Takeoff and Landing Operational Limits, a visual pretakeoff contamination check should be conducted by the crew within 5 minutes of takeoff, preferably just prior to taxiing onto the active runway. Visible areas of the airplane such as empennage, wing, windshield and control surfaces should be checked to ensure they are free of ice, slush and snow or that the deice/anti-ice fluids are still protecting the airplane. Refer to Figures 7-13 and 7-14 for essential areas to be deiced/anti-iced.

(Continued Next Page)

GROUND DEICE/ANTI-ICE OPERATIONS (Continued)

TAKEOFF PERFORMANCE - TYPE II, TYPE III, AND TYPE IV FLUIDS

Takeoff performance is degraded when Type II, Type III, or Type IV anti-ice fluid is on the airplane. The fluid that remains on the airplane during takeoff causes the elevator forces at rotation to be increased and the takeoff distance to be increased.

Takeoff is limited to the Flaps UP (0°) position per Section II, Takeoff and Landing Operational Limits, when Type II, Type III, or Type IV anti-ice fluid has been applied to the airplane. Determine the normal Flaps UP (0°) takeoff field length and apply any adjustments to speed and field length required by runway gradients or runway contamination. Multiply the resulting takeoff field length by the appropriate factor from the following table to determine the takeoff field length when Type II, Type III, or Type IV anti-ice fluid is on the airplane.

FLAPS UP TAKEOFF FIELD LENGTH	FACTOR
Dry Runway	1.30
Wet Runway	1.30
Contaminated Runway	1.15

CAUTION

Anticipate a heavier than normal elevator force at rotation. Even with the increased pull force, the airplane may rotate slower than normal. The elevator forces will return to normal shortly after liftoff.

POSTFLIGHT INSPECTION - TYPE II, TYPE III, AND TYPE IV FLUIDS

Cessna recommends all operators that use Type II, Type III, or Type IV fluids for anti-icing perform periodic visual inspections for anti-icing fluid residues. The visual inspection should include:

1. Along the wing rear spar area with the flaps extended,
2. Around the perimeter of the aileron surface,
3. The gaps around the elevator and elevator trim tab,
4. The gaps around the rudder and rudder trim tab.

Initially, these inspections should be performed after a maximum of three applications of Type II, Type III, or Type IV fluid. If the airplane is washed or if Type I fluid is used for deicing, then the frequency of inspection may be reduced. The frequency of inspections should be determined by the operator based on the results of the residue inspections, frequency of deicing/anti-icing operations as well as frequency of airplane washing.

GROUND DEICE/ANTI-ICE OPERATIONS

During cold weather operations, flight crews are responsible for ensuring the airplane is free of ice contaminants. Ground icing may occur whenever there is high humidity with temperatures of +10°C or colder. Type I deice and Type II, Type III or Type IV anti-ice fluids may be used sequentially to ensure compliance with FAA regulations (clean wing concept) requiring critical component airframe deicing and anti-icing.

NOTE

It is recommended that flight crews refamiliarize themselves seasonally with the following publications for expanded deice and anti-ice procedures:

- Cessna Maintenance Manual Chapter 12.
- FAA Advisory Circular AC 120-58 (large aircraft) dated September 30, 1992 or later.
- FAA Advisory Circular AC 135-17 (small aircraft) dated December 14, 1994 or later.
- Cessna Citation Service Letter SL525-30-03, dated May 29, 1998 or later.

DEICING/ANTI-ICING PROCEDURES (TYPE I, TYPE II, TYPE III, AND TYPE IV FLUIDS)

ONE-STEP DEICING - Type I fluid is used to remove ice, slush and snow from the airplane prior to departure, and to provide minimal anti-icing protection as provided in the Type I holdover timetable (refer to applicable service letter).

TWO-STEP DEICE/ANTI-ICE - May be used to ensure the airplane remains clean after deicing. Type II, Type III or Type IV fluid is used to provide longer term anti-icing protection as provided in the Type II, Type III or Type IV holdover timetable (refer to applicable service letter).

CAUTION

Type I, Type II, Type III and Type IV fluids are not compatible and may not be mixed. Additionally, most manufacturers prohibit mixing of brands within a type.

Line personnel should be supervised by the crew to ensure proper application of deice or anti-ice fluids. Refer to Figures 7-13 and 7-14. Make sure the airplane is always sprayed from the front. Spraying from the rear can force fluid into aerodynamic quiet areas where it may not drain from the airplane.

NOTE

The first area to be deiced/anti-iced should be easily visible from the cabin/cockpit and should be used to provide a conservative estimate for unseen areas of the airplane before initiating takeoff roll.

(Continued Next Page)

GROUND DEICE/ANTI-ICE OPERATIONS (Continued)

Holdover timetables (refer to applicable service letter) are only estimates and vary depending on many factors to include temperature, precipitation type, precipitation rate, wind and airplane skin temperature. Holdover times are based on mixture ratio. Times start when the last application begins.

Guidelines for holdover times anticipated by SAE Type I, Type II, Type III or Type IV, and ISO Type I, Type II, Type III or Type IV fluid mixtures are a function of weather conditions and outside air temperature (OAT).

CAUTION

- Airplane operators are solely responsible for ensuring holdover timetables contain current data.
- Tables are for use in departure planning only and they should be used in conjunction with pretakeoff contamination check procedures.

NOTE

- Tables do not apply to other than SAE or ISO Type I, Type II, Type III or Type IV FPD fluids.
- The responsibility for the application of this data remains with the user.
- The freezing point of Type I fluid mixture must be at least 10°C (18°F) below the current OAT. The freezing point of the Type II, Type III and Type IV fluid mixture must be at least 7°C (13°F) below the current OAT.

SPRAYING TECHNIQUE - TYPE I FLUID

Type I fluid should be sprayed on the airplane in a manner which minimizes heat loss on the airplane. If spraying is conducted with engines running, the engines should be at idle with all engine bleed off. If possible, fluid should be sprayed in a solid cone pattern of large coarse droplets at a temperature of 160° to 180°F at the nozzle. The fluid should be sprayed as close as possible to the airplane surfaces, but not closer than 10 feet if a high-pressure nozzle is used. Refer to Figures 7-13 and 7-14 for essential areas to be deiced/anti-iced.

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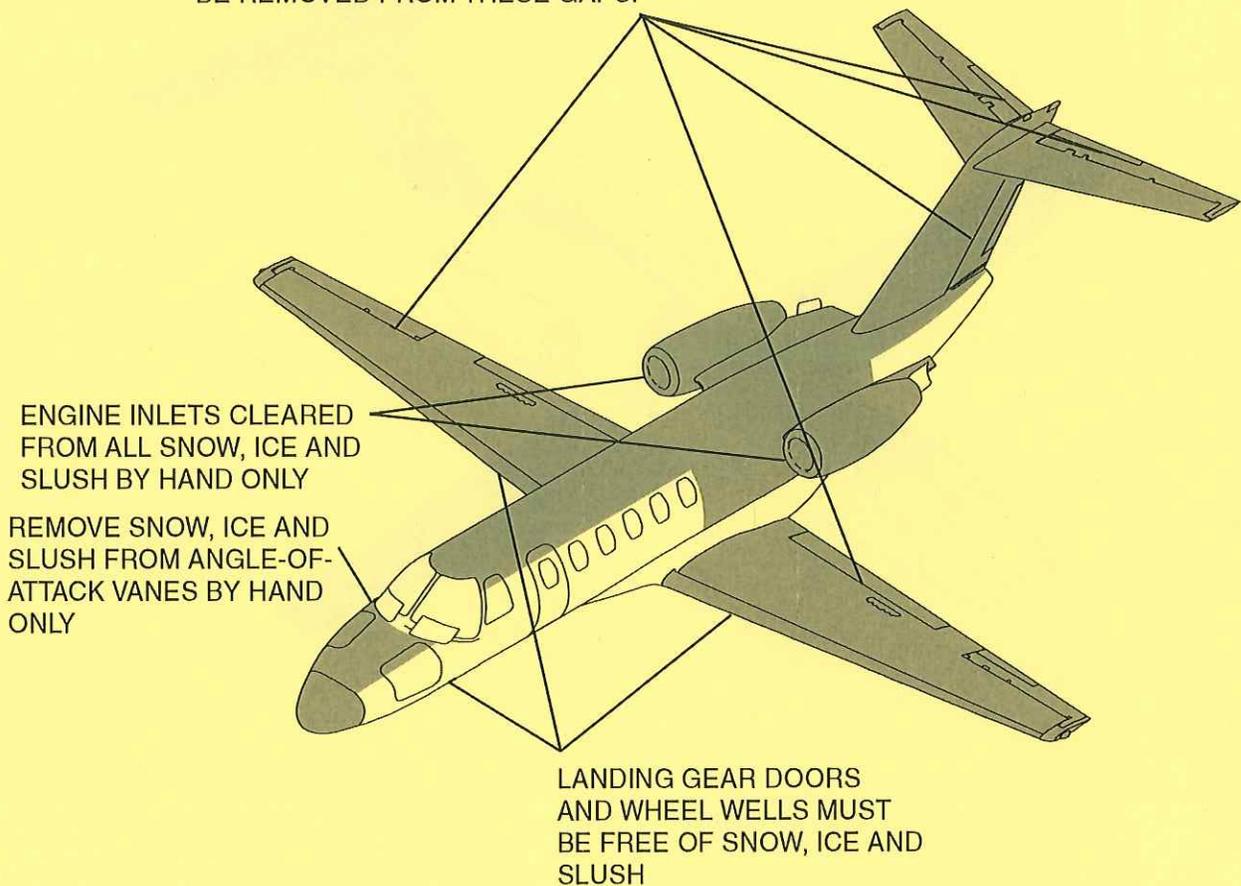
AIRPLANE DEICING

A77380

**MINIMUM DIRECT
SPRAY AREAS:** ENGINE INLETS, ENGINE EXHAUST,
RAM AIR INLETS, BRAKES, PITOT HEADS,
STATIC PORTS, WINDSHIELD,
CABIN WINDOWS, AND AOA VANES.

NOTE: SHADED AREAS INDICATE
ESSENTIAL AREAS TO BE
DEICED.

PAY SPECIAL ATTENTION TO
THE GAPS BETWEEN THE
FLIGHT CONTROLS. ALL
SNOW, ICE AND SLUSH MUST
BE REMOVED FROM THESE GAPS.



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Figure 7-13

AIRPLANE ANTI-ICING

A77381

**MINIMUM DIRECT
SPRAY AREAS:**

ENGINE INLETS, ENGINE EXHAUST,
RAM AIR INLETS, BRAKES, PITOT HEADS,
STATIC PORTS, WINDSHIELD,
CABIN WINDOWS, AND AOA VANES.

NOTE: SHADED AREAS INDICATE AREAS WHERE ANTI-ICE FLUID IS APPLIED. UPPER FUSELAGE IS ANTI-ICED TO PRECLUDE ICE FORMATION WHICH COULD BE INGESTED INTO ENGINE INLETS.

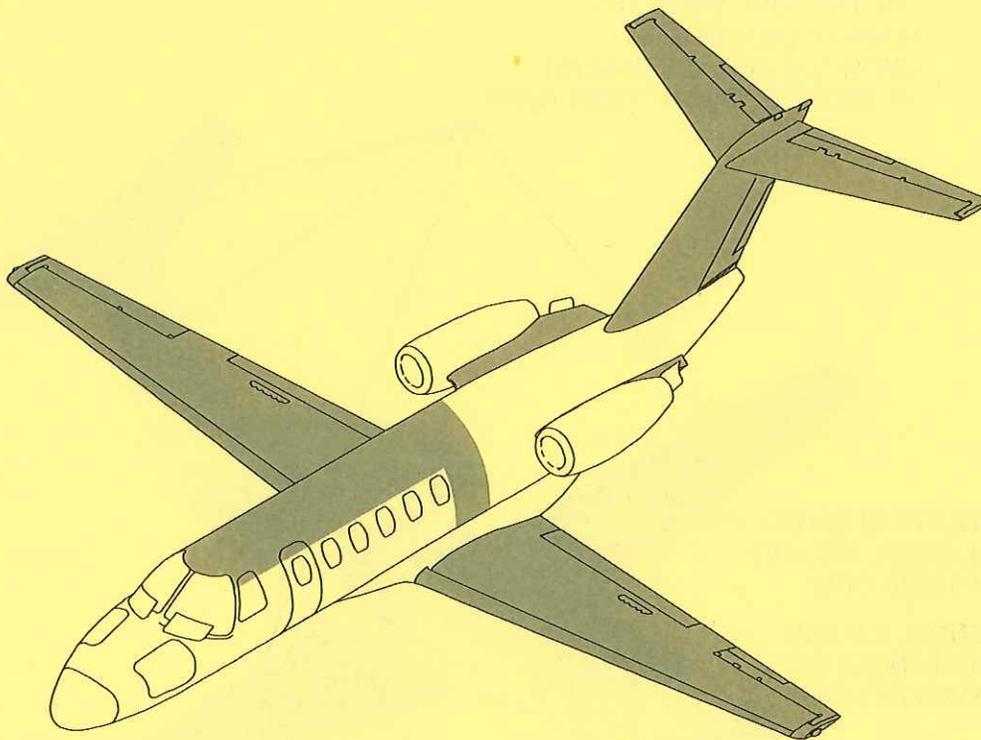


Figure 7-14

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DEICING/ANTI-ICING PROCEDURES (TYPE I, TYPE II, AND TYPE IV FLUIDS) (Continued)

Line personnel should be supervised by the PIC or SIC to ensure proper application of deice or anti-ice, fluids. Refer to Figures 7-13 and 7-14.

NOTE

The first area to be deiced/anti-iced should be easily visible from the cabin/cockpit and should be used to provide a conservative estimate for unseen areas of the airplane before initiating takeoff roll.

Holdover timetables (refer to applicable service letter) are only estimates and vary depending on many factors to include temperature, precipitation type, wind and airplane skin temperature. Holdover times are based on mixture ratio. Times start when the last application begins.

Guidelines for holdover times anticipated by SAE Type I, Type II, or Type IV, and ISO Type I, Type II, or TYPE IV fluid mixtures are a function of weather conditions and outside air temperature (OAT).

CAUTION

- AIRPLANE OPERATORS ARE SOLELY RESPONSIBLE FOR ENSURING HOLDOVER TIMETABLES CONTAIN CURRENT DATA.
- TABLES ARE FOR USE IN DEPARTURE PLANNING ONLY AND THEY SHOULD BE USED IN CONJUNCTION WITH THE PRETAKEOFF CONTAMINATION CHECK PROCEDURES.

NOTE

- Tables do not apply to other than SAE or ISO Type I, Type II or Type IV FPD fluids.
- The responsibility for the application of this data remains with the user.
- The freezing point of Type I, Type II, and Type IV fluid mixture must be at least 10°C (18°F) below the current OAT.

SPRAYING TECHNIQUE - TYPE I FLUID

Type I fluid should be sprayed on the airplane (with engines off) in a manner which minimizes heat loss to the air. If possible, fluid should be sprayed in a solid cone pattern of large coarse droplets at a temperature of 160° to 180°F. The fluid should be sprayed as close as possible to the airplane surfaces, but not closer than 10 feet if a high pressure nozzle is used. Refer to Figures 7-13 and 7-14 for essential areas to be deiced and anti-iced.

(Continued Next Page)

DEICING/ANTI-ICING PROCEDURES (TYPE I, TYPE II, AND TYPE IV FLUIDS) (Continued)

SPRAYING TECHNIQUE - TYPE II FLUID

Application techniques for Type II fluid are the same as for Type I, except that since the airplane is already clean, the application should last only long enough to properly coat the airplane surfaces. Refer to Figure 7-13 and 7-14 for essential areas to be deiced/anti-iced.

Type II, fluid should be applied cold to a "clean" airplane. It is, however, sometimes heated and sprayed as a deicing fluid. For this case, it should be considered a Type I fluid, as the heat may change the characteristics of the thickening agents in the fluid. Type II fluid, therefore, applied in this manner, will not be as effective as if it were applied cold.

SPRAYING TECHNIQUE - TYPE IV FLUID

Application techniques for Type IV fluid are the same as for Type I, except that since the airplane is already clean, the application should last only long enough to properly coat the airplane surfaces. Refer to Figure 7-13 and 7-14 for essential areas to be deiced/anti-iced.

Type IV, fluid should be applied cold to a "clean" airplane. It is, however, sometimes heated and sprayed as a deicing fluid. For this case, it should be considered a Type I fluid, as the heat may change the characteristics of the thickening agents in the fluid. Type IV fluid, therefore, applied in this manner, will not be as effective as if it were applied cold.

NOTE

- Holdover time starts when last application has begun.
- Some Type IV fluids could form a thick or high-strength gel during "dry-out" and when rehydrated form a slippery film.
- Some Type IV fluids exhibit poor aerodynamic elimination (flow-off) qualities at colder temperatures.
- Heated areas of aircraft (i.e.; heated leading edge) should be avoided due to the fact that fluid may "dry-out" into hard globular nodules.
- Type IV fluid should not be used undiluted below -24°C (-11°F).

PRETAKEOFF CONTAMINATION CHECK - GROUND ICING CONDITIONS

When ground icing conditions are present, a pretakeoff contamination check should be conducted by the PIC/SIC within 5 minutes prior to takeoff, preferably just prior to taxiing onto the active runway. Critical areas of the airplane such as empennage, wing, windshield and control surfaces should be checked to ensure they are free of ice, slush and snow or that the deice/anti-ice fluids are still protecting the airplane. Refer to Figure 7-13 and 7-14 for essential areas to be deiced/anti-iced.

MODEL 525A

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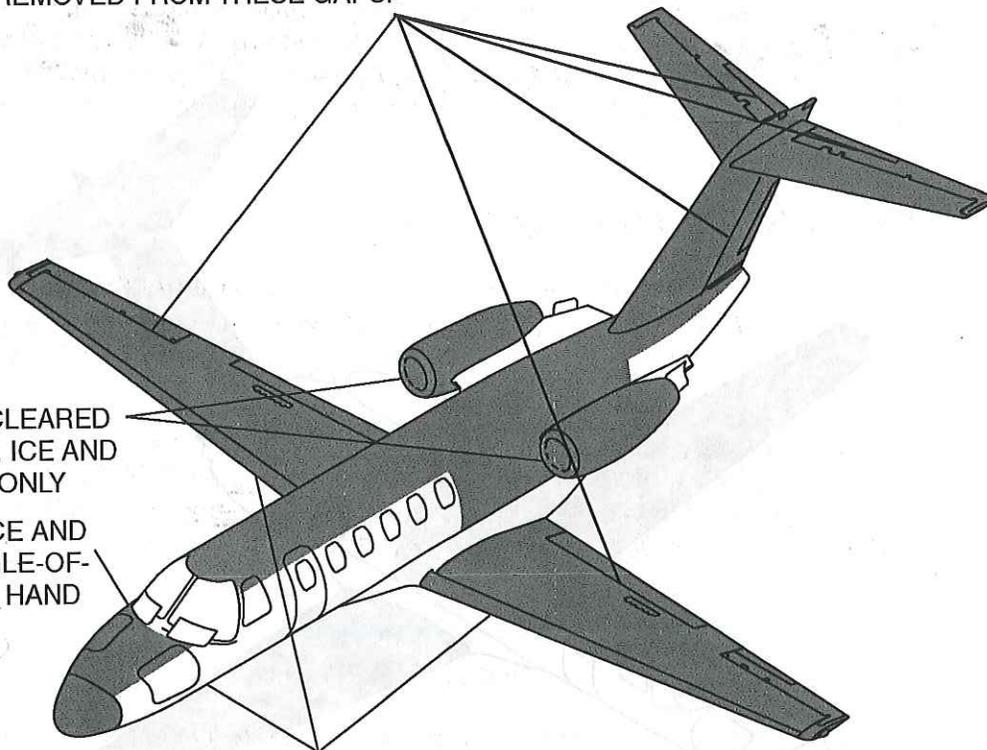
NOTE: SHADED AREAS INDICATE ESSENTIAL AREAS TO BE DEICED.

PAY SPECIAL ATTENTION TO THE GAPS BETWEEN THE FLIGHT CONTROLS. ALL SNOW, ICE AND SLUSH MUST BE REMOVED FROM THESE GAPS.

ENGINE INLETS CLEARED FROM ALL SNOW, ICE AND SLUSH BY HAND ONLY

REMOVE SNOW, ICE AND SLUSH FROM ANGLE-OF-ATTACK VANES BY HAND ONLY

LANDING GEAR DOORS AND WHEEL WELLS MUST BE FREE OF SNOW, ICE AND SLUSH



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6310C1001

Figure 7-13

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NOTE: THE SHADED AREAS INDICATE AREAS WHERE ANTI-ICE FLUID IS APPLIED. UPPER FUSELAGE IS ANTI-ICED TO PRECLUDE ICE FORMATION, WHICH COULD BE INJECTED INTO ENGINE INLETS.

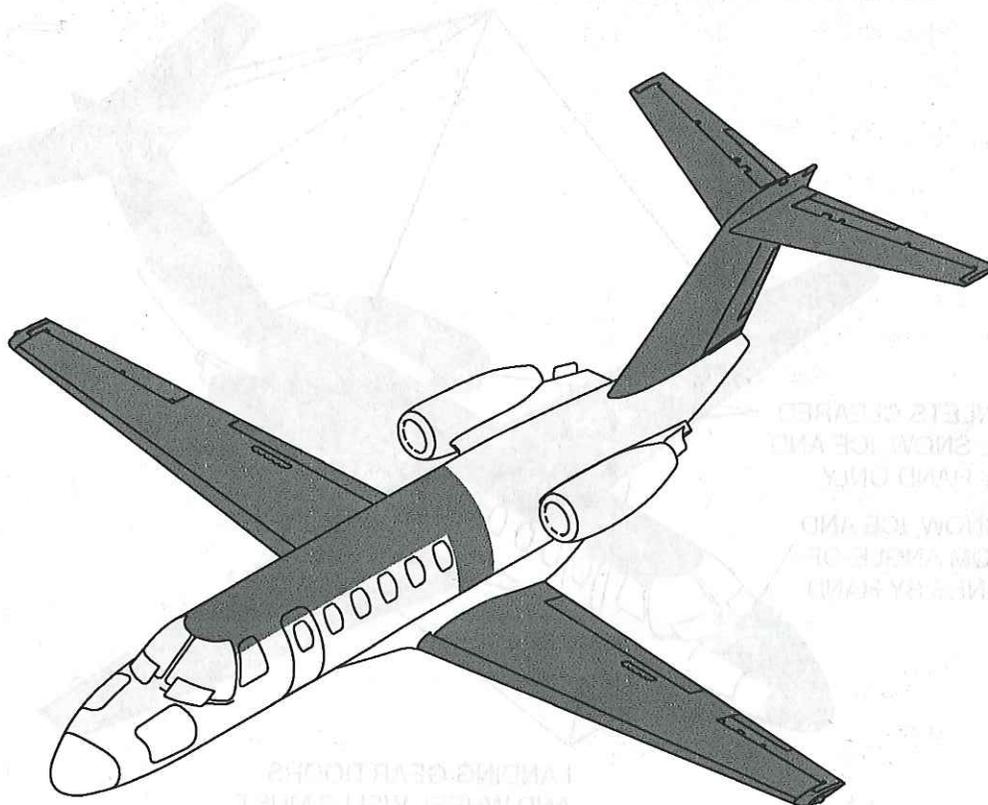


Figure 7-14

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