




**CAT B & CAT A
CROSS REFERENCE CHART**


AFM/RFM Rev. 17


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THIS DOCUMENT DOES NOT REPLACE THE AFM/RFM**


Silvio Pini


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 CAT B & CAT A CROSS REFERENCE CHART TAKE-OFF (page 1 of 2)	CAT B	CAT A					
		Vertical Procedure	Short Field	Back Up Procedure	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part C G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Helipad Helideck RWY	n/a	15m x 15m or Ø 15m	RTO distance	15m x 15m or Ø 15m	See RFM	15m x 15m or Ø 15m	20m x 20m or Ø 20m
Max Wind	45 kts Tail Wind not recommended See RFM Section 4, Figure 4-6	Cross 20kts Tail 0kts				Cross 20kts Tail 0kts Within 10 & 20kts Cross, minimum 5kts Head	Cross 20kts Tail 0kts
Max Altitude	14000ft Hp or Hd	14000ft Hp or Hd with TDPe 7000ft Hp or Hd	14000ft Hp or Hd			5000ft Hp or Hd	10000ft Hp or Hd
Vtoss	n/a	40 KIAS			50 KIAS	40 KIAS	
Vy	> 10'000ft Hp 80 KIAS < 10'000ft Hp 70 KIAS						
TDP – TDPe	n/a	35ft – 70ft	35ft – 400ft	85ft – 400ft	30ft AGL	20ft	100ft -400ft
Minimum Height CTO	n/a	TDP/TPDe -20ft		TDP/TPDe -70ft	n/a	TDP -10°	TDP -85ft
Height at the end of CTO distance	n/a	TDP or TDPe		TDP/TPDe -50ft	35ft	20ft	TDP -100ft


 CAT B & CAT A CROSS REFERENCE CHART TAKE-OFF (page 2 of 2)	CAT B	CAT A					
		Vertical Procedure	Short Field	Back Up Procedure	Clear Area	Offshore Helideck	Confined Area
Parking Brake	As Required	ON	OFF	ON	OFF	ON	ON
NR	100%	102%					
Hover	5ft					Nose wheel off, main gear light	5ft
PI Increase	+5%	+23% or 110% PI in 2s			+18% or 110% PI in 2s	PI Target Figure 1E-1	+10-12% PI in 2s, after continuously to +23% or 110% PI
Attitude	Immediately actual attitude -7° to Vy, adjust to maintain Vy	At TDP/TDPe -10° for 1s 0° to Vtoss 5° to Vy Adjust to maintain Vy			Immediately -5° to TDP and Vtoss 5° to 200ft AGL and Vy Adjust to maintain Vy	At 30ft -10° for 1s 0° to Vtoss Vtoss +5° Maintain Vy	At TDP Recover 10-15° yaw -10° for 1s 0° to Vtoss 5° to Vy Adjust to maintain Vy


 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE BEFORE TDP/TDPe (Rejected T/O)	CAT B	CAT A					
		Vertical Procedure	Short Field	Back Up Procedure	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part C G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Collective / Attitude	<p>In Hover (5-10ft): adjust collective to land</p> <p>During T/O (if CTO not possible): If altitude permits, reduce collective to maintain RPM Make a partial flare to reduce GS (max 15° near GND)</p>	<p>Adjust collective to establish descent</p> <p>Maintain RRPM close to 100%</p>	<p>Nose down to max -20° to start descent and accelerate</p> <p>Maintain RRPM above 90%</p> <p>At 20ft (50ft TDPe) nose up max 20° to decelerate</p> <p>Max 15° nose up at touchdown</p>	<p>Adjust collective to establish descent</p> <p>Maintain RRPM close to 100%</p> <p>Adjust attitude - 10° to reach T/O place</p> <p>At 5-10ft ATS increase collective for touchdown</p>	<p>Adjust collective to establish descent</p> <p>Maintain RRPM close to 90%</p> <p>Reduce speed below 30kts GS</p> <p>At 5-10ft ATS increase collective for touchdown</p> <p>Max 15° nose up at touchdown</p>	<p>Adjust pitch attitude by 2°-3° nose down</p> <p>Vertical descent toward helideck</p> <p>Maintain RRPM close to 100%</p> <p>At 5-10ft ATS increase collective for touchdown</p>	<p>Adjust pitch attitude by 2°-3° nose down</p> <p>Vertical descent toward helipad</p> <p>Maintain RRPM close to 100%</p> <p>At 15ft ATS increase collective for touchdown</p> <p>Max 15° nose up at touchdown</p>
Max GS at touchdown	40kts / 20kts	5kts	40kts / 20kts	5kts	40kts / 20kts	5kts	


 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE AFTER TDP/TDPe (Continued T/O)	CAT B	CAT A					
		Vertical Procedure	Short Field	Back Up Procedure	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part C G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Collective / Attitude	Maintain RRPM within the limits with 2,5 min power to Vy At Vy continue climb with OEI MCP	Nose down to -10° for 1s Adjust collective to maintain RRPM above 90% and 2,5 min power 0° to Vtoss At Vtoss and positive ROC adjust to 5° nose up			Continue acceleration maintaining RRPM above 90% and 2,5 min power Adjust pitch attitude to 5° to Vtoss At Vtoss 10° nose up	Nose down to -10° for 1s Adjust collective to maintain RRPM above 90% and 2,5 min power 0° to Vtoss At Vtoss and positive ROC adjust to 5° nose up	
		Lower collective to recover RRPM to 102% and continue climb to 200ft ATS with 2,5 min power	Lower collective to recover RRPM to 102% and continue climb to 200ft (or TDPe +200ft) ATS with 2,5 min power	Lower collective to recover RRPM to 102% and continue climb to 200ft (or TDPe +115ft) ATS with 2,5 min power		Lower collective to recover RRPM to 102% and continue climb to 200ft (or TDP +100ft) ATS with 2,5 min power	
		At 200ft ATS continue acceleration to Vy and climb At Vy continue climb with OEI MCP	At TDP or TDPe +200ft ATS continue acceleration to Vy and climb At Vy continue climb with OEI MCP	At TDP or TDPe +115ft ATS continue acceleration to Vy and climb At Vy continue climb with OEI MCP		At 200ft ATS continue acceleration to Vy and climb At Vy continue climb with OEI MCP	At 200ft ATS (or TDP +100ft) continue acceleration to Vy and climb At Vy continue climb with OEI MCP


 CAT B & CAT A CROSS REFERENCE CHART LANDING (page 1 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Helipad Helideck RWY	n/a	15m x 15m or Ø 15m	n/a	See RFM	15m x 15m or Ø 15m	20m x 20m or Ø 20m
Max Wind	45 kts Tail Wind not recommended See RFM Section 4, Figure 4-6	Cross 20kts Tail 0kts			Cross 20kts Tail 0kts Within 10 & 20kts Cross, minimum 5kts Head	Cross 20kts Tail 0kts
Max Altitude	14000ft Hp or Hd				5000ft Hp or Hd	10000ft Hp or Hd
Vblss	n/a	40 KIAS		50 KIAS	40 KIAS	
Vy	> 10'000ft Hp 80 KIAS < 10'000ft Hp 70 KIAS					
LDP – LDPv	n/a	50ft – 400ft ALS 20 KIAS ROD <350ft/min		50ft ALS 50 KIAS ROD <350ft/min	40ft ALS 15kts GS 45° with helideck ROD = 0ft/min	400ft – 100ft 400ft to 250ft =15-20 KIAS 250ft to 100ft =defined by height ROD <400ft/min
Parking Brake	As Required	ON	OFF		ON	

 CAT B & CAT A CROSS REFERENCE CHART LANDING (page 2 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
NR	100%	102%				
Approach	At 200ft AGL or ALS max ROD 500ft/min Decelerate to achieve 30 KIAS at 50ft At 50ft 20° nose up attitude to decelerate Continue deceleration and descend to HIGE	At 200ft ALS or LDPv + 150ft max ROD 500ft/min For LDPv at 50ft ALS, decelerate to achieve the Landing Zone Continue deceleration and descent to HIGE	At 200ft GND max ROD 500ft/min Decelerate to achieve the LDP Continue deceleration to HIGE	Reduce speed to achieve LDP at 15kts GS and 40 ft ALS Maintain the rotor tip path plane outboard, but close to the edge of the helideck At LDP fly toward helideck At 30ft ALS max 10° nose up When over helideck descend vertically and use collective to cushion touchdown with 30°-45° offset	LDP above 250ft: LDP+100ft ALS 30kts GS ROD <400ft/min Left Yaw 15° At LDP 15-20kts GS Maintain Heliport on center chin window Continue descend with ROD <400ft/min	
Max GS at touchdown	40 kts 20 kts 5 kts	5 kts	40 kts 20 kts	5 kts		

 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE PRIOR LDP/LDPv (Balked Landing) (page 1 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Helipad Helideck RWY	n/a	15m x 15m or Ø 15m	n/a	See RFM	15m x 15m or Ø 15m	20m x 20m or Ø 20m
Max Wind	45 kts Tail Wind not recommended See RFM Section 4, Figure 4-6	Cross 20kts Tail 0kts			Cross 20kts Tail 0kts Within 10 & 20kts Cross, minimum 5kts Head	Cross 20kts Tail 0kts
Max Altitude	14000ft Hp or Hd				5000ft Hp or Hd	10000ft Hp or Hd
Vblss	n/a	40 KIAS		50 KIAS	40 KIAS	
Vy	> 10'000ft Hp 80 KIAS < 10'000ft Hp 70 KIAS					
LDP – LDPv	n/a	50ft – 400ft ALS 20 KIAS ROD <350ft/min	50ft ALS 50 KIAS ROD <350ft/min	40ft ALS 15kts GS 45° with helideck ROD = 0ft/min	400ft – 100ft 400ft to 250ft =15-20 KIAS 250ft to 100ft =defined by height ROD <400ft/min	

 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE PRIOR LDP/LDPv (Balked Landing) (page 2 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
Parking Brake	As Required	ON	OFF		ON	
NR	100%	102%				
Approach	RRPM within limits	RRPM 90% 5° nose up to Vblss (40 KIAS) When Vblss lower collective to recover 102% Continue climb to 200ft or LDPv + 150ft ALS with 2.5 power At 200ft or LDPv + 150ft ALS 2° nose up and accelerate to Vy with OEI MCP	RRPM 90% 5° nose up to Vblss (50 KIAS) When Vblss lower collective to recover 102% Continue climb to 200ft ALS with 2.5 power At 200ft ALS 2° nose up and accelerate to Vy with OEI MCP	0° nose down and accelerate to Vblss (40 KIAS) Min RRPM 90% At Vblss, 5° nose up, RRPM 102% and continue climb to 200ft (or LDP +100ft ALS) with 2.5 power Continue climb and accelerate to Vy	0° nose down and accelerate to Vblss (40 KIAS) Min RRPM 90% At Vblss 5° nose up, RRPM 102% and continue climb to 200ft (or LDP +100ft ALS) with 2.5 power At 200ft (or LDP +100ft ALS) continue climb and accelerate to Vy with OEI MCP	

 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE AFTER LDP/LDPv (OEI Landing) (page 1 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
RFM Reference	Normal Procedures Performance Data	SUPP 12 Part A G K	SUPP 12 Part B G K	SUPP 12 Part F J K	SUPP 12 Part E I K	SUPP 12 Part D H K
Helipad Helideck RWY	n/a	15m x 15m or Ø 15m	n/a	See RFM	15m x 15m or Ø 15m	20m x 20m or Ø 20m
Max Wind	45 kts Tail Wind not recommended See RFM Section 4, Figure 4-6	Cross 20kts Tail 0kts			Cross 20kts Tail 0kts Within 10 & 20kts Cross, minimum 5kts Head	Cross 20kts Tail 0kts
Max Altitude	14000ft Hp or Hd				5000ft Hp or Hd	10000ft Hp or Hd
Vblss	n/a	40 KIAS		50 KIAS	40 KIAS	
Vy	> 10'000ft Hp 80 KIAS < 10'000ft Hp 70 KIAS					
LDP – LDPv	n/a	50ft – 400ft ALS 20 KIAS ROD <350ft/min	50ft ALS 50 KIAS ROD <350ft/min	40ft ALS 15kts GS 45° with helideck ROD = 0ft/min	400ft – 100ft 400ft to 250ft =15-20 KIAS 250ft to 100ft =defined by height ROD <400ft/min	
Parking Brake	As Required	ON	OFF		ON	

 CAT B & CAT A CROSS REFERENCE CHART ENGINE FAILURE AFTER LDP/LDPv (OEI Landing) (page 2 of 2)	CAT B	CAT A				
		Heliport	Short Field	Clear Area	Offshore Helideck	Confined Area
NR	100%	102%				
Approach	RRPM within limits	At 50ft ALS increase pitch attitude to reduce speed At 20ft ALS apply collective to cushion touchdown Minimum RRPM 90% Max nose up15°	Minimum RRPM 90% At 20ft ALS apply collective to cushion touchdown Max nose up15°	Fly toward the helideck At 30ft ALS Max attitude 10° nose up At 15ft ALS apply collective using 2.5 power to cushion touchdown Minimum RRPM 90% Max nose up15°	ROD 400ft-500ft 2.5 power RRPM 100% +/-1% minimum 90% At 15ft ALS apply collective to cushion touchdown Max nose up15°	
Max GS at touchdown	40 kts 20 kts 5 kts	5 kts	40 kts 20 kts		5 kts	