

CABIN	ENGINE START	TAKEOFF CHECK	SHORT FIELD TAKEOFF	
1. Documents AROW	1. Master Switch ON	1. Trim SET	1. Takeoff Check COMPLETE	
2. Flight Control Lock REMOVE	2. Strobe Lights ON	2. Mixture SET	2. Flaps T/O	
3. Ignition Switch OFF	3. Canopy Closed and locked	3. Fuel Prime OFF	3. Runways End of runway, Centerline alligned	
4. Master Switch ON	4. Mixture RICH	4. Fuel Pump ON	4. Brakes HOLD	
5. Fuel CHECK	5. Fuel Pump ON	5. Flaps T/O	5. Throttle Full power, Check instruments	
6. Radios/Avionics ON (Check For Op.) OFF	6. Fuel Primer ON	6. Lights As Required	6. Mixture Adjust for Dens. Alt. and Elevation	
7. Strobe Lights ON (Check For Op.) OFF	7. Throttle FULL (3-5 Seconds) then slightly open	7. Transponder Proper Code and ALT	7. Brakes RELEASED	
8. Flaps DOWN	8. Propeller Area Announce CLEAR and verify	NORMAL TAKEOFF		
9. Master Switch OFF	9. Ignition Switch START	1. Takeoff Check COMPLETE	8. ROTATE SPEED Vr 44 KIAS	
10. Baggage Area Remove Necessary Items	10. Throttle 800-1000 RPM	2. Parking Brake RELEASED	9. Climb Speed Vx 57-60 KIAS Until Obst. Clr.	
LEFT WING		3. Takeoff Clearance OBTAINED	10. Flaps CRUISE	
1. Stall Warning Port CLEAR	11. Oil Pressure CHECK	4. Runway Centerline Alligned	11. Continue Climb Vy 68-75 KIAS	
2. Tie Down REMOVE	12. Fuel Primer OFF	5. Throtle Full Power	SOFT FIELD TAKEOFF	
3. Pitot and Static CLEAR	13. Warning Lights Push to test	6. Vr 44 KIAS	1. Takeoff Check COMPLETE	
4. Aileron Check for freedom of movement	14. Warning Lights OFF	7. Climb Speed 58-75 KIAS	2. Flaps T/O	
5. Flap Check for integrity	15. Engine Instruments CHECK	NORMAL CLIMB		
6. Main Strut/Tire Properly inflated, No leaking fluid	16. Flaps UP	1. Airspeed 75 KIAS	3. Runway Centerline Aligned, No Brakes	
EMPENNAGE		2. Throttle FULL	4. Elevator Pitch Up	
1. Fuel Check Fuel Level	17. Fuel Pump OFF	3. Flaps CRUISE	5. Throttle Full power, Check instruments	
2. Fuel Cap SECURE	18. Avionics ON	4. Transponder Check ALT	6. Climb Speed w/ Obstacle Vx 57-60 KIAS	
3. Sumps DRAIN	19. Transponder ON and GND/STBY	5. Engine Gauges CHECK	7. Climb Speed w/o Obstacle Vy 68-75 KIAS	
4. Fuel Vent CLEAR	TAXI		8. Flaps CRUISE when at safe altitude	
5. Tail Tie Down REMOVE	1. ATIS/AWOS/ASOS Listen & Recorded	AFTER LANDING		
6. Rudder Gust Lock REMOVE	2. Altimeters SET	1. Mixture Full Rich		
7. Rudder and Elev. Check for freedom of Movement	3. IFR Clearance If Necessary	2. Flaps CRUISE/UP		
RIGHT WING		3. Transponder VFR and GND/STBY		
1. Flap Check for integrity	4. Taxi Clearance Obtained	4. Fuel Pump OFF		
2. Aileron Check for freedom of movement	5. Brakes OFF and Check When Moving	5. Lights As Required		
3. Wing Tie Down REMOVE	BEFORE TAKEOFF		6. Trim NEUTRAL	
4. Main Strut/Tire Properly inflated, No leaking fluid	1. Parking Brake SET	7. Taxi Clearance Obtained		
NOSE/COWLING		2. Seat Belts/Harness CHECK	SHUTDOWN	
1. Right Air Vent CLEAR	3. Canopy Locked	1. Parking Brake SET		
2. Oil Quantity 4-6 Quarts	4. Canopy Warning Light OFF	2. Avionics OFF		
3. Oil Pressure Cap & Hatch SECURE	5. Trim NEUTRAL	3. Lights OFF		
4. Prop & Spinner CHECK	6. Circuit Breakers CHECK	4. Throttle IDLE		
5. Alternator Belt CHECK	7. Fuel Shutoff Valve OPEN	5. Mixture Idle Cutoff		
6. Main and Alternate Air Intake CLEAR	8. Flight Controls Free and Correct	6. Ignition OFF		
7. Nose Strut & tire Check for proper inflation	9. Vacuum Gauge Green Arc	7. Master Switch OFF		
8. Left Air Vent CLEAR	10. Flight Instruments CHECK	8. Canopy UNLOCK and OPEN		
9. EPU Port CLOSED	11. Oil Temp 75 deg Minimum (lower red line)	SECURING THE AIRCRAFT		
CANOPY		1. Hobbs and Tach RECORDED		
CHECK CONDITION FOR INTEGRITY		2. Trash REMOVE		
WALKAROUND		3. Control Lock INSTALLED		
CHECK FOR ANYTHING YOU MISSED!		4. Canopy CLOSED		
BEFORE ENGINE START		5. Tie Downs ON		
1. Passenger Briefing COMPLETE	12. Throttle 1700 RPM	SPEEDS		
2. Parking Brakes SET	13. Oil Pressure 30-60 PSI	Vr 44 KIAS		
3. Pedals ADJUST	14. Ammeter and Voltage CHECK	Vx 57-60 KIAS		
4. Harnesses SECURED	15. Mixture SET	Vy 68-75 KIAS		
	16. Magnetos Check Left and Right	Va Max Gross Weight 106 KIAS		
	RPM Drop: 25-150 RPM, Max Diff: 50 RPM	V L/D (Best Glide) 73 KIAS		
	17. Alternate Air CHECK			
	18. Throttle IDLE			
	19. Transponder SET CODE			
	20. Radios SET			
	21. Flaps T/O			
	22. Lights ON			
	23. Vent Windows CLOSED			
DIAMOND DA20 ECLIPSE N263DC				

ENGINE FAILURE DURING FLIGHT

1. Airspeed - BEST GLIDE **73 KIAS**

2. Find a landing site.

3. System Check

Engine Gauges **CHECK**

Fuel Valve **OPEN**

Mixture **RICH**

Throttle **FULL**

Alternate Air **OPEN**

Fuel Pump **ON**

Ignition Switch **BOTH**

Fuel Primer **OFF**

4. Signal

Transponder **7700**

Frequency **121.5**

FORCED LANDING

1. Fuel Valve **CLOSED**

2. Mixture **IDLE CUT-OFF**

3. Throttle **IDLE**

4. Ignition Switch **OFF**

5. Safety Belts **SECURE**

6. Flaps **SET**

7. Master **OFF**