

**GROUND PROCEDURES**

**Cirrus SR20**

**N662AJ**

**CABIN**

1. Required Documents..... ON BOARD
2. Avionics Power Switch ..... OFF
3. Bat 2 Master Switch ..... ON
4. PFD ..... Verify ON
5. Avionics Cooling Fan..... AUDIBLE
6. Voltmeter ..... 23-25 VOLTS
7. Flap Position Light ..... OUT
8. Bat 1 Master Switch ..... ON
9. Lights ..... CHECK OPERATION
10. Stall Warning ..... TEST
11. Fuel Quantity..... CHECK
12. Fuel Selector..... Select Fullest Tank
13. Flaps ..... 100%, CHECK LIGHT ON
14. Oil Annunciator ..... ON
15. All Annunciators ..... TEST OPERATIONAL
16. Bat 1 and Bat 2 Master Switches..... OFF
17. Alternate Static Source..... NORMAL
18. Circuit Breakers ..... IN
19. Fire Extinguisher....CHARGED & AVAILABLE
20. Emergency Egress Hammer..... AVAILABLE
21. CAPS Handle..... PIN REMOVED

**Left Fuselage**

1. COM 1 Antenna (top) .....CONDITION & SECURE
2. Wing/Fuselage Fairing ..... CHECK
3. COM 2 Antenna (underside)....CONDITION & SECURE
4. Baggage Door..... CLOSED and SECURE
5. Static Button ..... CHECK FOR BLOCKAGE
6. Parachute Cover .....SEALED AND SECURE

**Empennage**

1. Tiedown Rope..... REMOVE
2. Horizontal & Vertical Stabilizers .....CONDITION
3. Elevator and Tab.....CONDITION & MOVEMENT
4. Rudder .....FREEDOM OF MOVEMENT
5. Rudder Trim Tab.....CONDITION & SECURITY
6. Attachment hinges, bolts, and cotter pins ..... SECURE

**Right Fuselage**

1. Static Button .....CHECK FOR BLOCKAGE
2. Wing/Fuselage Fairings.....CHECK

**Right wing**

1. Flap and Rub Strips .....CONDITION & SECURITY
2. Aileron and Tab..... CONDITION & MOVEMENT
3. Hinges, actuation arm, bolts, and cotter pins SECURE
4. Tip .....ATTACHMENT
5. Strobe, Nav Light & Lens.....CONDITION & SECURITY
6. Fuel Vent (underside) .....UNOBSTRUCTED
7. Leading Edge and Stall Strips .....CONDITION
8. Fuel Cap .....CHECK QUANTITY & SECURE
9. Fuel Drains (2 underside)..... DRAIN & SAMPLE
10. Wheel Fairings .....SECURITY, DEBRIS
11. Tire .....CONDITION, INFLATION, & WEAR
12. Wheel/Brakes . LEAKS, OVERHEAT, CONDITION, SECURITY
13. Chocks and Tiedown Ropes ..... REMOVE
14. Cabin Air Vent.....UNOBSTRUCTED

**Nose, Right Side**

1. Cowling .....ATTACHMENTS SECURE
2. Exhaust Pipe .....CONDITION, SECURITY, CLEARANCE
3. Transponder Antenna (underside)..... CONDITION
4. Gascolator (underside)..... DRAIN, SAMPLE
5. Tow Bar..... REMOVE & STOW
6. Strut .....CONDITION
7. Wheel Fairings ..... SECURITY, DEBRIS
8. Wheel and Tire .....CONDITION, INFLATION, WEAR
9. Propeller ..... CONDITION (indentation, nicks, etc.)
10. Spinner ..... CONDITION (indentations, nicks, etc.)
11. Air Inlets ..... UNOBSTRUCTED
12. Alternator Belt..... CONDITION & TENSION
13. Landing Light ..... CONDITION
14. Engine Oil ..... CHECK 6-8qt, LEAKS, CAP & DOOR
15. Cowling.....ATTACHMENTS SECURE
16. External Power .....DOOR SECURE
17. Exhaust Pipe .....CONDITION, SECURITY, CLEARANCE

**Left Wing**

1. Wheel Fairings ..... SECURITY, DEBRIS
2. Tire..... CONDITION, INFLATION, & WEAR
3. Wheel/Brakes ...LEAKS, OVERHEAT, CONDITION, SECURITY
4. Chocks and Tiedown Ropes.....REMOVE
5. Fuel Drains (2 underside) ..... DRAIN & SAMPLE
6. Cabin Air Vent..... UNOBSTRUCTED
7. Fuel Cap ..... CHECK QUANTITY & SECURE
8. Leading Edge and Stall Strips..... CONDITION
9. Fuel Vent (underside)..... UNOBSTRUCTED
10. Pitot Mast (underside) ..... COVER REMOVED, CLEAR
11. Strobe, Nav Light and Lens. CONDITION & SECURITY
12. Tip ..... ATTACHMENT
13. Flap and Rub Strips..... CONDITION & SECURITY
14. Aileron ..... FREEDOM OF MOVEMENT
15. Hinges, actuation arm, bolts, cotter pins.....SECURE



V-SPEEDS		INFO	
Vso	56	Oil (full/min)	8 / 6
Vs	65	Fuel [use]	60 [56]
Vr	65	Weight TO	3000#
Vx	81-85	Weight Lnd	2900#
Vy	91-96	Demo Xwind	21
Vg	87-96		
Vfe 50%	120	App FL 100%	75
Vfe 100	100	App FL 50%	80
Va	111-131	App FL 0%	85
Vno	165		
Vne	200		

**GROUND PROCEDURES**

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**BEFORE STARTING ENGINE**

1. Preflight Inspection..... COMPLETE
2. Emergency Equipment..... ON BOARD
3. Passengers .....BRIEFED
4. Seat, Belt, & Harness ..... ADJUST, SECURE

**STARTING ENGINE (With Battery)**

1. External Power (if req) ..... CONNECT
2. Brakes ..... HOLD
3. Bat Master Switches ..... ON (Check volts)
4. Alt Master Switches ..... OFF
5. Strobe Lights ..... ON
6. Mixture ..... FULL RICH
7. Power Lever ..... FULL FORWARD
8. Fuel Pump ..... PRIME, then BOOST  
*PRIME: 10 sec-COLD, 2 sec-NORM, 0 sec-HOT*
9. Power Lever ..... OPEN 1/4"
10. Propeller Area ..... CLEAR
11. Ignition Switch ..... START
12. Power Lever ..... RETARD (1000 RPM)
13. Oil Pressure ..... CHECK
14. Alt Master Switches ..... ON
15. Avionics Power Switch ..... ON
16. Engine Parameters..... MONITOR (PFD)
17. External Power ..... DISCONNECT
18. Fuel Pump ..... OFF
19. Initial Fuel ..... SPECIFIED via MFD

**BEFORE TAXIING**

1. Flaps..... UP (0%)
2. Radios/Avionics ..... AS REQUIRED
3. Cabin Heat/Defrost..... AS REQUIRED
4. Fuel Selector ..... SWITCH TANK
5. Airport Diagram ..... DISPLAYED

**Taxiing**

1. Brakes ..... CHECK
2. HSI Orientation ..... CHECK
3. Attitude Gyro ..... CHECK
4. Turn Coordinator ..... CHECK

**Before Takeoff**

1. Doors ..... LATCHED
2. CAPS Handle ..... VERIFY PIN REMOVED
3. Belts and Harness ..... SECURE
4. Fuel Quantity ..... CONFIRM
5. Fuel Selector ..... FULLEST TANK
6. Fuel Pump ..... ON
7. Flaps.....Set 50% and CHECK
8. Transponder ..... SET
9. Autopilot..... CHECK

10. Nav Radios/GPS..... SET for takeoff
11. Cabin Heat/Defrost ..... AS REQUIRED
12. Brakes..... HOLD
13. Engine Parameters ..... ON MFD
14. Mixture..... FULL RICH
15. Power Lever ..... 1700 RPM
16. Alternator..... CHECK  
Pitot Heat, Nav Lights, Land Light..... ON  
Annunciator Lights ..... CHECK
17. Voltage ..... CHECK
18. Pitot Heat ..... AS REQUIRED
19. Nav, Landing Lights ..... AS REQUIRED
20. Magnetos ..... CHECK (drop <150, diff <75)
21. Engine Parameters ..... CHECK
22. Power Lever ..... 1000 RPM
23. Instrument, HSI, Altimeter ..... CHECK, SET
24. Flight Controls ..... FREE & CORRECT
25. Trim ..... SET Takeoff
26. Autopilot ..... DISENGAGE

**INFLIGHT CHECKS ON SECOND CARD**

**SECURING AIRPLANE**

1. Parking Brake ..... SET or HOLD
2. Power Lever ..... 1500 RPM
3. Mixture..... LEANED, 20 seconds
4. Avionics ..... CHECK 121.5
5. ELT Transmit Light ..... OUT
6. Power Lever ..... REDUCE as REQ'd
7. Parking Brake ..... RELEASED
8. Fuel Pump ..... OFF
9. Power Lever ..... IDLE
10. Ignition Switch..... GROUNDING CHECK
11. Mixture..... CUTOFF
12. All Switches except Strobe ..... OFF
13. Ignition Switch..... OFF, *key on dash*
14. Exterior, Interior & Panel Lights ..... OFF
15. CAPS Handle..... PIN INSTALLED
16. Pitot Cover..... INSTALLED
17. Wheel Chocks..... INSTALLED
18. Tie Downs..... INSTALLED
19. Tires and Aircraft..... INSPECTED
20. Shade/Canopy Cover..... INSTALLED

**ENGINE FIRE DURING START**

1. Mixture..... CUTOFF
2. Fuel Pump..... OFF
3. Fuel Selector ..... OFF
4. Power Lever ..... FORWARD
5. Starter ..... CRANK

## FLIGHT NORMAL PROCEDURES

### NORMAL TAKEOFF

1. Takeoff Briefing ..... COMPLETE
2. Door ..... VERIFY CLOSED
3. Fuel Pump ..... VERIFY ON
4. Fuel Selector ..... FULLEST TANK
5. Mixture ..... FULL RICH
6. Flaps ..... VERIFY 50% unless 0% req
7. Takeoff Trim ..... VERIFIED
8. Lights ..... SET
9. Power Lever ..... FULL FORWARD
10. Engine Instruments ..... CHECK
11. Brakes ..... RELEASE
12. Rotate ..... 65-70 kts
13. Flaps ..... UP, 85 kts
14. Climb ..... Vx (81-85) or Vy (96-91)
15. Noise Abatement ..... 2500rpm

### SHORT FIELD TAKEOFF

1. Steps 1-8 of Normal Takeoff then:
2. Flaps ..... 50%
3. Brakes ..... HOLD
4. Power Lever ..... FULL FORWARD
5. Engine Instruments ..... CHECK
6. Brakes ..... RELEASE
7. Rotate ..... 65 KIAS
8. Airspeed at obstacle ..... 75 KIAS
9. Flaps ..... UP, 85 kts
10. Climb ..... Vx (81-85) or Vy (96-91)

### CLIMB

1. At 1000' AGL ..... CLIMB (105-95)
2. Flaps ..... VERIFY UP
3. Mixture ..... FULL RICH
4. Engine Parameters ..... CHECK
5. Fuel Pump ..... OFF, As Req'd

### CRUISE

1. Fuel Pump ..... OFF
2. Cruise Power ..... SET
3. Mixture ..... LEAN as required
4. Engine Parameters ..... MONITOR
5. Fuel Flow and Balance ..... MONITOR

### DESCENT

1. Altimeter ..... SET
2. Cabin Heat/Defrost ..... AS REQUIRED
3. Landing Light ..... ON
4. Fuel System ..... CHECK
5. Mixture ..... AS REQUIRED
6. Brake Pressure ..... CHECK

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### BEFORE LANDING

1. Autopilot ..... AS REQUIRED
2. Fuel Pump ..... BOOST
3. Seat Belt and Harness ..... SECURE
4. Gas ..... FULLEST TANK
5. Mixture ..... FULL RICH
6. Flaps ..... AS REQUIRED

### NORMAL LANDING

1. Autopilot - DISENGAGE
2. Final Approach Speed .. 75 KIAS, Flaps 100%  
..... 80 KIAS, Flaps 50%  
..... 85 KIAS, Flaps 0%

### SHORT-FIELD LANDING

Same as Normal Landing except:

1. Final Approach Speed .. 75 KIAS, Flaps 100%
2. Brakes ..... As Necessary

### BALKED LANDING

1. Autopilot ..... DISENGAGE
2. Power Lever ..... FULL FORWARD
3. Pitch ..... ARREST DESCENT and/or CLIMB
4. Flaps ..... 50%
5. Airspeed ..... Best Angle (81-83 KIAS)
6. Clear of obstacles, Flaps ..... UP

### AFTER LANDING

1. Power Lever ..... 1000 RPM
2. Fuel Pump ..... OFF
3. Flaps ..... UP
4. Transponder ..... ALT
5. Lights ..... AS REQUIRED
6. Pitot Heat ..... OFF
7. Airport Diagram ..... DISPLAYED

Vso	56	Va	111-131
Vs	65	Vno	165
Vr	65	Vne	200
Vx	81-85	Demo Xwind	21
Vy	91-96	App FL 100%	75
Vg	87-96	App FL 50%	80
		App FL 0%	85

### ENGINE FAILURE DURING FLIGHT

1. Best Glide Speed .. ESTABLISH (96-87 KIAS)
2. Best Place to Land ..... SELECTED
3. Mixture ..... FULL RICH
4. Fuel Selector ..... SWITCH TANKS
5. Fuel Pump ..... BOOST
6. Alternate Induction Air ..... ON
7. Ignition Switch ..... CHECK, BOTH

## FLIGHT EMERGENCY PROCEDURES

### ENGINE FAILURE ON TAKEOFF

1. Best Speed (Glide/Land) ESTABLISH (96-87)
2. Mixture ..... CUTOFF
3. Fuel Selector ..... OFF
4. Ignition Switch ..... OFF
5. Flaps ..... AS REQUIRED
6. Power Lever ..... IDLE
7. Fuel Pump ..... OFF
8. Bar-Alt Master Switches ..... OFF
9. Seat Belts ..... SECURED

### ENGINE FIRE IN FLIGHT

1. Mixture ..... CUTOFF
2. Fuel Pump ..... OFF
3. Power Lever ..... IDLE
4. Fuel Selector ..... OFF
5. Ignition Switch ..... OFF

### FORCED LANDING (Engine Out)

1. Best Glide Speed .... ESTABLISH (96-87 KIAS)
2. Radio ..... TRANSMIT (121.5) MAYDAY
3. Transponder ..... 7700
4. ELT ..... ACTIVATE
5. Power Lever ..... IDLE
6. Mixture ..... CUTOFF
7. Fuel Selector ..... OFF
8. Ignition Switch ..... OFF
9. Fuel Pump ..... OFF
10. Flaps (landing assured) ..... 100%
11. Master Switch ..... OFF
12. Seat Belts ..... SECURED

### ENGINE AIRSTART

1. BAT Master Switches ..... ON
2. Power Lever ..... 1/2" OPEN
3. Mixture ..... RICH, AS REQUIRED
4. Fuel Selector ..... SWITCH TANKS
5. Ignition Switch ..... BOTH
6. Fuel Pump ..... BOOST
7. Alternate induction Air ..... ON
8. ALT Master Switches ..... OFF
9. Starter ..... ENGAGE
10. Power Lever ..... slowly INCREASE
11. ALT Master Switches ..... ON

### CAPS DEPLOYMENT

1. Airspeed ..... MINIMUM POSSIBLE
  2. Mixture ..... CUTOFF
  3. Activation Handle Cover ..... REMOVE
  4. Activation Handle .. PULL STRAIGHT DOWN
- Reference aircraft checklist for remaining steps*

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### WING FIRE

1. Pitot Heat Switch ..... OFF
2. Navigation Light Switch ..... OFF
3. Strobe Light Switch ..... OFF
4. Side slip to keep flames away from cabin
5. Land as soon as possible

### CABIN FIRE

1. BAT-ALT Master Switches .... OFF, As Req'd
  2. Heater ..... OFF
  3. Air Vents ..... CLOSED
  4. Fire Extinguisher ..... ACTIVATE
  5. Fire extinguished, Air Vents ... OPEN, COLD
- Reference aircraft checklist for remaining steps*

### SMOKE & FUMES ELIMINATION

1. Heater ..... OFF
2. Air Vents ..... OPEN, FULL COLD
3. Prepare to land as soon as possible
4. Cabin Doors ..... UNLATCH, As Req'd

### EMERGENCY DESCENT

1. Power Lever ..... IDLE
2. Mixture ..... AS REQUIRED
3. Airspeed ..... Vne (200 KIAS)

### SPIRAL DIVE

1. Power Lever ..... IDLE
  2. Wings ..... LEVEL
  3. Elevator ..... CAUTIOUS BACK PRESSURE
- Reference aircraft checklist for remaining steps*

### SPIN

1. CAPS ..... ACTIVATE

### PDFD - LOSS OF ATTITUDE DATA

1. Standby Instruments ..... MONITOR
2. Autopilot GPSS Mode ..... ACTIVATE
3. Autopilot Altitude Hold ..... ACTIVATE
4. PFD Circuit Breakers ..... PULL as required

### PDFD - LOSS OF AIR DATA

1. Land as soon as practical
2. Standby Instruments ..... MONITOR

### EMERGENCY ENGINE SHUTDOWN - GROUND

1. Power Lever ..... IDLE
2. Fuel Pump ..... OFF
3. Mixture ..... CUTOFF
4. Fuel Selector ..... OFF
5. Ignition Switch ..... OFF
6. BAT-ALT Masters ..... OFF