



Normal/Abnormal/Emergency Checklists

Revision 01 – 03/21/2022

CIRRUS SR-22

Avidyne Entgra Avionics

PREFLIGHT

Pitot Tube Cover Removed

Cabin:

- Documents Check
- Avionics Power Switch OFF
- BAT 2 Master Switch ON
- PFD Verify ON
- Avionics Cooling Fan Audible
- Voltmeter 23-25 Volts
- Flap Position Light OUT
- BAT Master 1 Master Switch ON
- Fuel Quantity Check
- Fuel Selector Fulllest Tank
- Flaps 100%, Light ON
- Oil Annunciator ON
- Aircraft Lights ON
- Pitot Heat ON

Exit Aircraft and Quickly Complete:

- Stall Warning Opening Check
- Pitot Heat (IFR) Check
- Aircraft Lights Check
- Pitot Heat (IFR) OFF
- Aircraft Lights OFF
- BAT 1 and 2 Master Switches OFF
- Alternate Static Source Normal
- Circuit Brakers IN
- Fire Extinguisher Check
- CAPS Handle Pin Removed

Left Fuselage:

- Baggage Compartment Door Locked
- COM 1 Antenna Check
- Wing/Fuselage Faring Check
- COM2 Antenna Disconnect
- Static Button Check
- Parachute Cover Check

Empennage:

- Tiedown Rope Removed
- Horizontal and Vertical Stabilizers Check
- Elevator and Tab Check
- Rudder Check
- Rudder Trim Tab Check
- Attachment hinges, bolts, and pins Check

Right Fuselage:

- Static Button Check
- Wing/Fuselage Faring Check

Right Wing:

- Flaps Check
- Aileron and Tab Check
- Aileron Gap Seal Secure
- Hinges, Bolts, and Pins Check
- Wing Tip Secure
- Fuel Vent Unobstructed
- Leading Edge and Stall Strips Check
- Fuel Caps Check Quantity and Secure
- Fuel Drains (2) Sample
- Wheel Faring's Check
- Main Wheel Tire Check
- Brake Pad/Disc Check
- Tiedown Rope Removed
- Cabin Air Vent Unobstructed

Nose:

- Surface Condition Check
- Strut Check
- Wheel Faring Check
- Tire and chocks Check and Remove
- Propeller Check
- Spinner and Air Inlets Check
- Alternator Belt Check
- Engine Oil (6 Quarts Minimum) Check
- Exhaust Check

Left Wing:

- Cabin Air Vent Unobstructed
- Wheel Faring's Check
- Main Wheel Tire Check
- Brake Pad/Disc Check
- Tiedown Rope Removed
- Fuel Caps Check Quantity and Secure
- Fuel Drains (2) Sample
- Leading Edge and Stall Strips Check
- Fuel Vent Unobstructed
- Pitot Tube Check
- Wing Tip Secure
- Aileron and Tab Check
- Aileron Gap Seal Secure
- Hinges, Bolts, and Pins Check
- Flaps Check

Final Walk Around:

Chocks Removed
Fuel Caps Secure
Engine Air Inlet Covers Removed
Pitot Mast Cover Removed
Baggage Door Closed

BEFORE START

Passenger Briefing Completed
Seats and Seat Belts Adjust and Lock
Hobbs Time Check

ENGINE START

Parking Brake ON
BAT Master Switches ON
Strobe Light ON
NAV Light As Required
Mixture Full Rich

Cold:

Power Lever Full Forward
Fuel Pump PRIME, then BOOST
Power Lever ¼ inch
Propeller Area Clear
Magneto/Starter Engage
Mixture (When Engine Starts) Smoothly Advance

CAUTION: If engine does not start within 10 seconds, follow Stater Limits, and wait 20 seconds. Repeat Procedure at "Prime"

Hot:

Fuel Pump BOOST
Power Lever ¼ inch
Propeller Area Clear
Magneto/Starter Engage
Mixture (When Engine Starts) Smoothly Advance

CAUTION: If engine does not start within 10 seconds, follow Stater Limits, and wait 20 seconds. Repeat Procedure at "Prime"

Flooded:

Power Lever Full Forward
Mixture Idle Cut-Off
Propeller Area Clear
Magneto/Starter Engage
Mixture (When Engine Starts) Smoothly Advance
Throttle Reduce

CAUTION: If engine does not start within 10 seconds, follow Stater Limits, and wait 20 seconds. Proceed to Hot or Cold Start procedure

AFTER START

Tachometer 1000RPM
Oil Pressure Check
Engine Parameters Monitor
Amp Meter/Indication Check
ALT Master Switches ON
Avionics ON

BEFORE TAXI

ATIS/AWOS Obtain
Altimeter(s) Set (3)
Heading Indicator Match Compass
Radio Check Completed
Seat and Seatbelts Secure
Taxi Briefing Completed
Fuel Selector Switch Tank
Flaps UP (0%)
Transponder ALT and SET
Parking Brake Release
Brakes Check

RUN-UP

Parking Brake ON
Flight Control Free and Correct
Trim Takeoff
CAPS Handle Pin Removed
Fuel Selector Fullest Tank
Fuel Pump Boost
Mixture Rich
Autopilot Check
Autopilot Disconnected
Fuel Quantity Check
Brakes Hold
Power Lever 1700 RPM
Alternator Check
Voltage Check
Magnetos Check L & R
Engine Parameter Check
Power Lever 1000 RPM

BEFORE TAKEOFF

Fuel Pump Boost
Mixture As Required
Flaps 50%
COM/NAV Frequency Set
Transponder Set
Pitot Heat As Required
Takeoff Briefing/Time Reviewed
Doors Latched
Brakes Release
Landing Light ON

CLIMB

Airspeed 101 KIAS (115 KIAS En-Route)
Mixture As Required
Flaps UP
Engine Gauges..... Check

CRUISE

Throttle 2100-2700 RPM
Mixture As Required
Fuel Pump OFF
Engine Parameters..... Check
Landing Light..... OFF

DESCENT

Throttle As Required
Mixture Adjust
ATIS/AWOS Obtain
Altimeter(s) Set (3)
PFD Altitude Select Set
Landing and Taxi Light ON

BEFORE LANDING

Seat and Seatbelts Check Secure
Fuel Pump BOOST
Mixture Rich
Autopilot OFF
Approach Briefing Complete

AFTER LANDING

Power Lever 1000 RPM
Fuel Pump OFF
Mixture As Required
Flaps UP
Landing Light..... OFF
Pitot Heat OFF

SHUTDOWN

Parking Brake..... ON
Power Lever 1000 RPM
ELT Silent on 121.500MHz
Transponder ALT and "1200"
Avionics Switch OFF
Mixture Idle Cut-Off
Magneto Switch..... Off and Key Removed
All Switches..... OFF
BAT Master Switches OFF
Hobbs and Tach Time Record

Final Walk-Around:

Control Lock..... Install
Cowl Plugs Install
Pitot Tube Cover Install
Chocks Install
Parking Brake..... Release

ENGINE FIRE DURING START

Mixture Cutoff
Fuel Pump OFF
Fuel Selector OFF
Power Lever Forward
Starter Crank

ELECTRICAL FIRE (SMOKE IN CABIN)

BAT/ALT Master Switches OFF
Heater OFF
Air Vents CLOSED
Fire Extinguisher Activate
Cabin Doors Partially Open

Avionic Power Switch OFF
All Other Switches OFF
Land As Soon as Practical

ENGINE FIRE IN FLIGHT

Mixture Cutoff
Fuel Pump OFF
Fuel Selector OFF
Airflow Selector OFF
Power Lever IDLE
Ignition Switch OFF
Cabin Doors Partially Open

Land As Soon as Practical

WING FIRE

Pitot Heat Switch OFF
NAV Light Switch OFF
Landing Light Switch OFF
Strobe Light Switch OFF

Land As Soon as Practical

CAPS DEPLOYMENT

Airspeed MINIMUM POSSIBLE (>133 KIAS)
Mixture Cutoff
Activation Cover Removed
Activation Handle PULL straight down

After CAPS Deployment:

Mixture Check Cutoff
Fuel Selector OFF
BAT/ALT Switches OFF
Fuel Pump OFF
ELT ON
Seat and Seatbelts Tighten
Loose Items Secure
Body Position Emergency Positions

SPIN RECOVERY

CAPS Activate

Proceed to CAPS Deployment Check List

NOTE: Pull activation T-handle from its holder. Clasp both hands around the handle and pull straight down in a strong, steady, and continuous motion. Maintain maximum pull force until the rocket activates. Pull forces up to, or exceeding, 45 pounds may be required. Bending of the handle-housing mount is to be expected.

ENGINE POWER LOSS DURING TAKEOFF

Power Lever Idle
Mixture Cutoff
Brakes Apply

Flaps As Required
Ignition OFF
Fuel Pump OFF
BAT and ALT Master Switches OFF
ATC/CTAF Notify

ENGINE POWER LOSS DURING FLIGHT

Airspeed 88 KIAS
Suitable Place to Land Identify

If Altitude Permits:

Mixture As Required
Fuel Selector Switch Tanks
Fuel Pump BOOST
Alternate Induction Air ON
Air Conditioner (If-Installed) OFF

If engine does not start:

Proceed to Engine Air start or Force Landing

ENGINE AIRSTART

BAT Master SwitchON
Power Lever ½" Open
Mixture Rich or As Required
Fuel Selector Switch Tanks
Ignition Switch BOTH

Fuel Pump BOOST
Alternate Induction AirON
Starter (Propeller Not Windmilling)..... Engage
Power Lever Slowly advance
ALT Master Switches..... OFF

FORCED LANDING

Airspeed 88 KIAS
Radio Transmit 121.500 MHz
Transponder 7700
ELT Activate
Power Lever Idle
Mixture Cutoff
Fuel Selector OFF
Ignition Switch OFF
Fuel Pump OFF

Flaps (When Landing Assured) 100%
Master Switches OFF
Seat Belt (s) Secure

PROPELLER GOVERNOR FAILURE

Propeller RPM will NOT increase:

Oil Pressure Check
Land As Soon as Practical

Propeller RPM Overspeed or will NOT decrease:

Power Lever Adjust (Keep within limits)
Airspeed Reduce to 90 KIAS
Land As Soon as Practical

DITCHING

Radio Transmit 121.500 MHz
Transponder 7700
CAPS Activate
Airplane Evacuate
Flotation Inflate when clear of airplane

NOTE: If available, life preservers should be donned and life raft should be prepared for immediate evacuation upon touchdown. Consider unlatching a door prior to assuming the emergency landing body position to provide a ready escape path.

NOTE: It may be necessary to allow some cabin flooding to equalize pressure on the doors. If the doors cannot be opened, break out the windows with the egress hammer and crawl through the opening.

BRAKE FAILURE DURING TAXI

Engine Power As Required
Directional Control Maintain with Rudder
Brake Pedals (s) Pump

If Directional Control cannot be maintained:

Mixture Cutoff

ALTERNATOR FAILURE

Alt 1 Light Steady:

ALT 1 Master Switch OFF
Alternator 1 Circuit Breaker Check and Reset
ALT1 Master Switch ON

If Alternator does not reset:

ALT 1 Master Switch OFF
Land As Soon as Practical

ALT 1 Light Flashing:

Ammeter Switch OFF

If Charging rate is > 30 amps:

Electrical Load Reduce
Electrical Load Monitor

ALT 2 Light Steady:

ALT 2 Master Switch OFF
Alternator 1 Circuit Breaker Check and Reset
ALT 2 Master Switch ON

If Alternator does not reset:

ALT 2 Master Switch ON
Land As Soon as Practical

EIS FAILURE

ANNUN/ENGINE INST Circuit Breaker.....Reset
Land As Soon as Practical

PFD ADC FAIL

Standby Instruments..... Monitor
Land As Soon as Practical
IMC..... Exit

PFD AHRS FAIL

Standby Instruments..... Monitor
Autopilot GPSS Mode..... Activate
Autopilot Altitude Hold Activate
IMC..... Exit

A/P or PITCH TRIM FAILURE

Airplane Control..... Maintain Manually
Autopilot Disengage
Circuit Breakers..... PULL AS Required
Power Lever As Required
Control Yoke..... Manually Hold Pressure
Land As Soon as Practical

IMPORTANT SPEEDS:

V_G..... 88 KIAS
V_R..... 70 KIAS
V_Y..... 101 KIAS
V_X..... 78 KIAS
V_S..... 70 KIAS
V_{SO}..... 59 KIAS
V_{FE}..... 119/104 KIAS
V_{NO}..... 178 KIAS
V_{NE}..... 201 KIAS
V_{PD}..... 133 KIAS
V_A..... 133 KIAS

PASSENGER BRIEFING:

Seatbelts/Harness

- Operation and Adjustment
- Fastened for Taxi, Takeoff, and Landing

Emergency Exits

- Location and Operation

Fire Extinguisher

- Location and Operation

Sterile Cockpit

Flight Controls

- Do not Block or Interfere

Emergency Procedures

TAXI BRIEFING:

Departure Runway

Anticipate Taxi Route

- Taxiways to be use
- Intersecting Runways
- Run-Up area
- Hotspots

TAKEOFF BRIEFING:

Departure Runway

- Length/Distance Available
- Surface Condition
- Wind Direction/Speed

Lift-Off Speed/ Initial Climb Speed

Emergency Procedures

- On-Ground
- In-Air

Normal Departure Procedures

CAUTION: Always ensure that you have the most recent revision of this checklist. Always refer to the pilots operating handbook for specific procedures. Always choose the safest course of action.