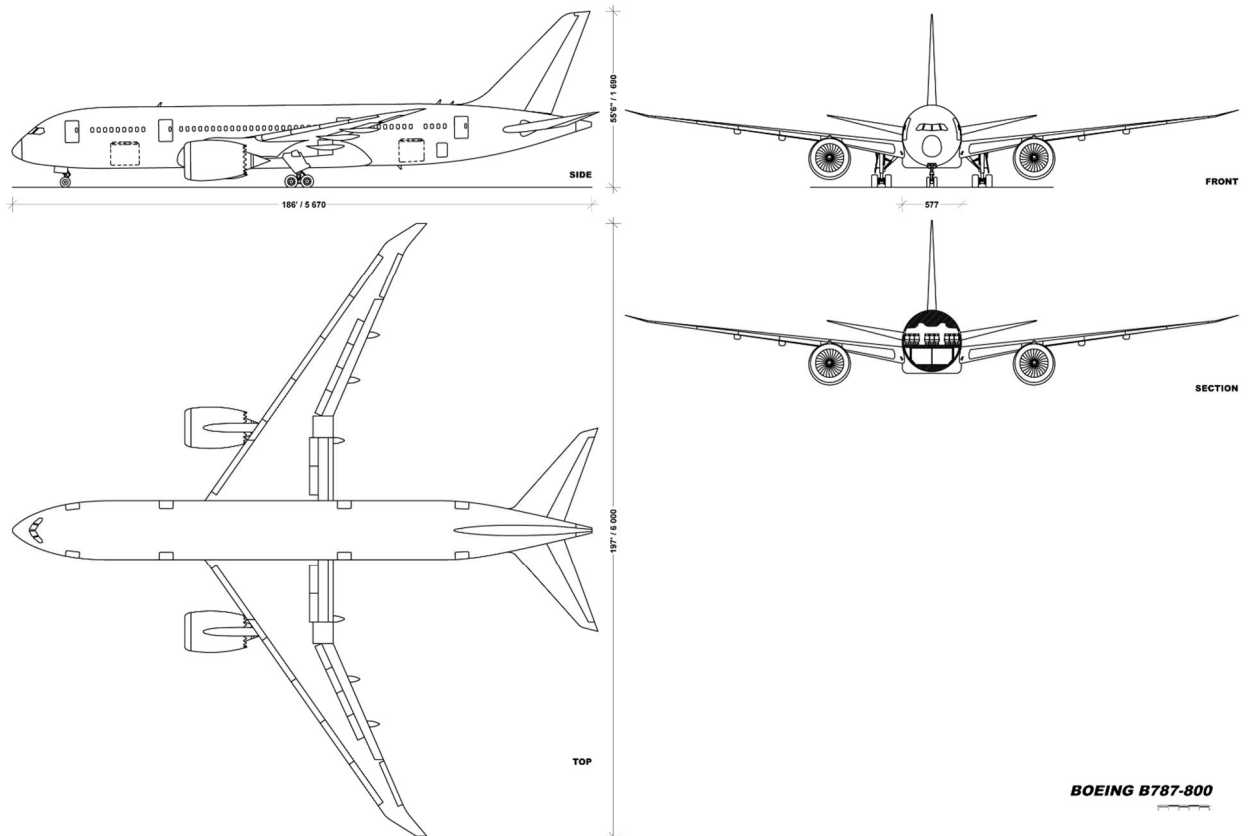# HCS VOICEPACKS

Aviator Command Reference Manual

Version: Beta 1.0

Welcome

Welcome to the HCS "AVIATOR" voice pack – A voice controlled co-pilot for your sim experience. From basic controls, to advanced checklist commands, ATC communication and autopilot controls, this manual details everything you need to bring a new dimension to every flight.

Alongside the "common controls" that can be used in every plane, there is a reference sheet for EACH plane later in this manual that shows the specific commands to work through every stage of the checklist.

IMPORTANT NOTE: Due to some limitations with Microsoft Flight Simulator, and the Simconnect API, you may find occasional functions that can't be controlled via voice – these are **highlighted in bold.**

Welcome

Contents

Technical Requirements

Windows 10

- The latest release of Microsoft Flight Simulator 2020
- VoiceAttack Beta – You MUST be running the 64 bit version of VoiceAttack for this to work.
- Current release of the 64 bit version can be downloaded from https://voiceattack.com/ (look in the "BETA" section of the downloads) – available for both STEAM and NON-STEAM versions of VA
- A microphone – you must have trained Windows to recognise your voice before you start.

    To access this, go to CONTROL PANEL in Windows

    Then EASE OF ACCESS

    Then SPEECH RECOGNITION

    Then TRAIN YOUR COMPUTER TO UNDERSTAND YOU BETTER
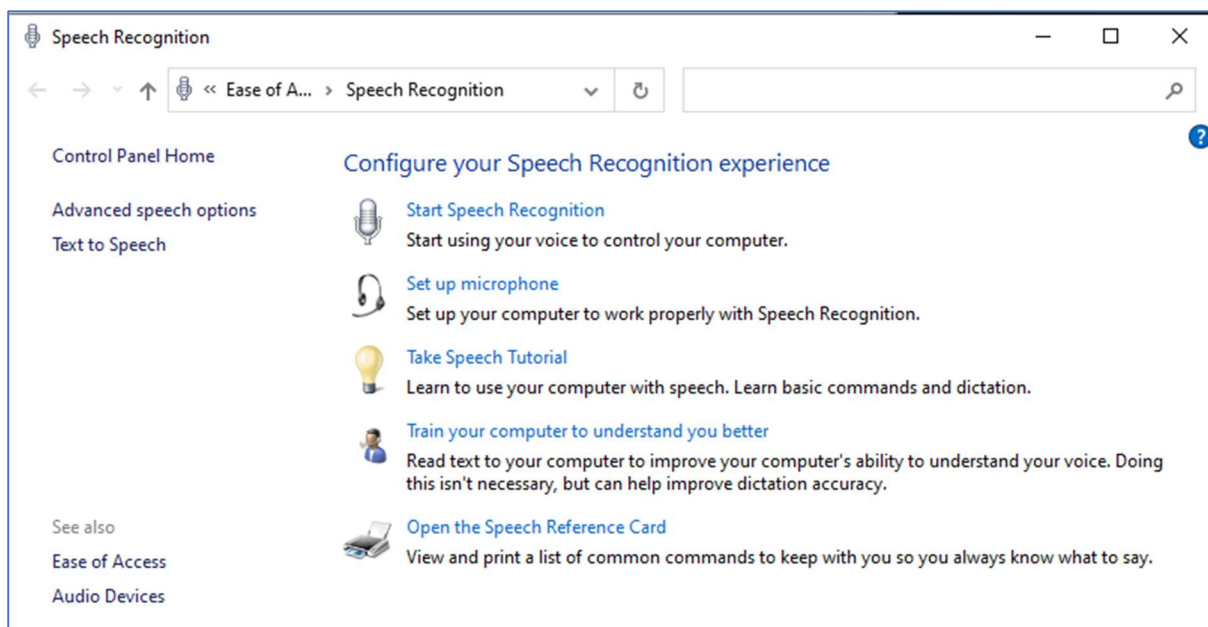
You can complete the training multiple times to improve the quality of voice recognition on your computer.

Installation

Simply download your pack, install it and follow the on-screen instructions.

Once it is complete (including entering your license key), select the HCS (Aviator) profile from the top menu.

Notes for ALPHA BACKERS

Your pack comes by default with the voice "Captain Anderson", a set of controls you can use in any of the default planes and extended commands for the 787 Dreamliner and Cessna 152.

Starting your flight

Simply run voiceattack with the AVIATOR profile selected, then start the game.
Your voiceattack window will say the message "Waiting for you to run Flightsim" until it detects the game

Once the game starts, it will configure your Keybinds, connect up to the SimConnect API provided by Microsoft and say "Ready" on the screen.

The HCS plugin will auto-detect your current plane

Features

Your copilot is trained in the use of many of the commands you need to have him control your plane, or manage startup routines.

With the wide range of planes available in the simulator, not every feature is available in each of them. Certain commands aren't accessible by VoiceAttack and the HCS Packs.

The basic controls – things like the landing gear, flaps, trim, throttle commands and many others are common to all the planes that have them fitted and will work in all circumstances.

The "checklist" and plane start-up controls are plane specific, and we're building on the list in future releases. Your options are:

"Auto start the engines" – Just have your copilot use the "auto start" feature and get the plane ready to fly quickly. (available in ALL planes)

"Perform the checklist" – Have your copilot work through the checklist line by line, performing each action in sequence. (available in selected planes)

"Take me through the checklist" – Your copilot will instruct you which action is next, and even change your view to look in that direction (not available in VR), monitor what you're doing and then move on to the next step when ready. (available in selected planes)

Or – you can just use voice commands to do the checklist yourself (available in selected planes)

Technical Notes

Deadzones

Depending on your choice of controller – if your deadzones aren't wide enough at the limits of, for instance, the throttle – it will cause "ghosting" which will interfere with a number of the voice commands related to axes.

For instance – it may register minuscule changes in throttle position, so when you say "throttle to 20 percent" – it will momentarily change and then change back. This can affect some of the startup routines, or the autopilot speed settings. This is the same for items like the propeller RPM, throttle, mixture and a number of other features, so if you are having errors with these – please check your flight controls to make sure you're not having "ghost" inputs. You can always manage those items with your control sticks, controller or HOTAS should you prefer.

Checklist Terminology

As far as possible, we've used the same terminology as placed by the designers in the checklists, HOWEVER, due to overlaps in the phrases and to make them clear and distinct from one another, we've standardised and made changes to give you a better experience. With later releases, we will be opening the "Voice Trigger Editor" for you to make your own changes.

Checklist command availability

Plane	Auto Start	Copilot Performed	Copilot guided	Checklist via voice
Airbus A320	Y			
Boeing 747	Y		Y	
Boeing 787	Y	Y	Y	Y
Avant Pitts Special S2S	Y			
Cirrus SR22	Y			Y
Cub Crafter X Cub	Y			Y
Daher TBM 930	Y			
Diamond Aircraft DA40TDi	Y			Y
Diamond Aircraft DA40NG	Y			Y
Diamond Aircraft DA62	Y			Y
Diamond Aircraft DV20	Y			Y
Extra Extra 330LT	Y			Y
Flight Design CTSL	Y			
ICON A5	Y			
JMB VL-3	Y			
Pipistrell Virus SW21	Y			
Robin cap 10	Y			
Robin DR400/100 Cadet	Y			
Beechcraft Baron G58	Y			Y
Beechcraft Bonanza G36	Y			Y
Beechcraft King Air 350i	Y			Y
Cessna 152	Y	Y		Y
Cessna 152 Aerobat	Y	Y		Y
Cessna 172 Skyhawk	Y			Y
Cessna 172 Skyhawk g1000	Y			Y
Cessna 208b Grand Caravan	Y			Y
Cessna Citation CJ4	Y		Y	Y
Cessna Citation Longitude	Y			
Zlin Aviation Savage club	Y			
Zlin Aviation Shock Ultra	Y			

Basic Controls (all planes)

Choosing your co-pilot

You can now switch between Elise, Anderson and Williams by saying:

"Change voice pack to Captain Anderson/ Co-pilot Elise/ Captain Williams"

Virtual Reality – NEW*

If you want to ENABLE or DISABLE the automatic moving of your viewpoint, to prevent it happening in VR, you can say:

"Disable/Enable Instrument View"

This is also able to be set as a tick box in the KEYBOARD CONTROL section of the customiser

Plane startup shortcuts

"Auto Start engines"

"Shutdown engines"

The Throttle

IMPORTANT NOTE: If you have a HOTAS or controller and it moves at all (including flicker due to insufficient deadzone at full/zero throttle), it will override any throttle controls you set via voice.

Note! Increments of 10% for throttle are default as well as slight increase/decrease throttle..

"Throttle to zero"/"Set Thrust lever to idle"

"Maximum throttle"/"Throttle to full"

"Throttle to 20 percent" (Increments of 10% through to 100%)

"Increase Throttle"

"Decrease Throttle"

Control Surfaces & Trim

"Extend Flaps" / *"Flaps down"*

"Retract Flaps" / *"Flaps up"*

"Increase Flaps" / *"Decrease Flaps"*

"Flaps to position one/two/three" - (1-9 depending upon the plane you are in)

"Flaps to 5/10/18/20 degrees" - Only usable where degrees are marked alongside the flaps positions in your plane. These correspond to fixed flaps "positions".

"Flaps for takeoff/landing"

"Increase/Decrease Cowl Flaps" (where fitted)

"Deploy Spoiler" (where fitted)

"Adjust elevator trim up/down"

"Adjust aileron trim left/right"

"Adjust rudder trim left/right"

IMPORTANT NOTE: On screen display is in 0.1 degree increments HOWEVER the trim commands use a finer adjustment. One use of the voice command WILL adjust trim, though you might not see a value change until after a couple of uses in one direction.

Miscellaneous Commands

"Parking Brake on/off"

"Test the brakes" – *will apply pressure to the brakes for checklist test*

"Test the controls" – *will test full motion on aileron, rudder, elevator for checklist test*

"Apply the brakes" – *will apply pressure to the brakes until your ground speed is less than 25 knots*

"Request jet way" – *at the gate, and parked, will request the passenger jetway*

"Request fuel truck" – *will request a fuel truck (alternative to requesting refuel)*

"Request refuel" – *refuels without requesting a fuel truck*

"Request repair and refuel"

"Lower/Raise landing gear"

"Turn on/off wheel lock" (where fitted) Turns on or off the tail wheel lock

"Turn the seatbelt light on/off"

"Turn the no smoking sign on/off"

"Turn on/off wipers"

"Turn on windscreen de-ice"

Panels
"Display the map"

"Display the checklist"

"Contact Air Traffic Control"

Engines

NOTE: Some of these commands require you to make sure the plane is ready to start engines, including priming, activating pumps, opening valves. Please see the in-cockpit checklist for instructions, or use our built-in checklist guide.

ALPHA BACKERS NOTE: The commands are designed to work with specific planes and in line with the instructions in that plane's checklist. For details, please see the specific guide for that plane.

"Engine 1 start" (1-4) – Starts the numbered engine.

"Magneto 1 start" (1-4)" – turns the magneto for engines 1 to 4 to the "start" position

"Left/right engine start" - *(Dreamliner/twin engine planes)

"Left/right engine run" - *(Cessna CJ4) pushes the RUN button – see detail in the Cessna Cj4 reference below*

"Anti ice on/off"

"Turn on/off pitot heat"

"Prime engine" - *(Cessna 152 and planes with a primer)

"Carburettor heat cold/warm" - *(Cessna 152 and planes with a carburettor)

Electrical

"Master battery on/off"

"Master alternator on/off"

"Master battery and alternator on/off"

"External power on/off"

"Avionics on/off" - *only in planes with an avionics switch/multiple switches

"Avionics to dispatch" - *only in planes with a dispatch switch position

"APU Selector Start"

"APU Generator On/Off"

"All starters on"

"Magentos Left/Right/Off/Start/Both"

"Master ignition on/off"

"Turn on/off alternator one" (1-4)

Lights

"Turn on/off Beacon Light"

"Turn on/off Nav Light"

"Turn on/off Logo Light"

"Turn on/off Taxi Light"

"Turn on/off Wing Light"

"Turn on/off Strobe Light"

"Turn on/off Panel Light"

"Turn on/off Cabin Light"

"Turn on/off Landing light"

"Turn on/off all lights"

Fuel

Note – some of these commands are plane specific

"Turn on fuel valves to all engines"

"Fuel valve one on" (1-6)

"Left/right fuel valve on"

"Fuel pump one on" (1-6)

"All fuel pumps on/off"

"Open fuel shutoff valve" *(Cessna 152)

"Fuel selector on/off" – where available in the plane sets the fuel selector

"Mixture to Rich/Lean" *(Cessna 152 and planes with mixture lever)

"Mixture Increase/Decrease" *(Cessna 152 and planes with mixture lever)

Pushback - *NEW

You can control the pushback DIRECTLY using voice without the need to use the ATC Menu

"Request Pushback" – will ask the pushback to engage with the plane and start pushback in a straight direction

"Pushback Left/Right" – one the pushback is enabled, turns the NOSE of the plane to the left or right

"Pushback tail left/right" – once the pushback is enabled, turns the TAIL of the plane to the left or the right

"Pushback straight" – straightens up

"Cancel pushback" – stops the pushback

ATC Controls

"Contact Air Traffic Control"

"ATC Option 1" (1-9) – Presses the numbered ATC menu option

"Acknowledged" – when available, acknowledges an incoming instruction

> Variations (where available):
>
> *"Acknowledge squawk code"*
>
> *"Acknowledge course change"*
>
> *"Acknowledge taxi/landing/approach clearance"*
>
> *"Acknowledge radar contact"*
>
> *"Acknowledge handoff"*
>
> *"Acknowledge instruction"*
>
> *"Acknowledge pattern entry"*
>
> *"Acknowledge ground handoff"*
>
> *"Acknowledge assigned approach"*
>
> *"Acknowledge IFR Clearance"*

"Tune to that frequency" – tunes to the frequency given by ATC

"Request Flight following" – where available

"Cancel Flight Following" – where available

"Request/Cancel pushback" – available at all times (no ATC menu required)

"Request pushback to the left/right" / *"Request pushback stop"* – where indicated on the ATC menu

"Request Refuel" / *"Request repair and refuel"* – when landed and available (no ATC menu required)

Autopilot Controls

"Autopilot On/Off" – where available

"Auto throttle on" – where available

"Hold this altitude" – turns on altitude hold mode

"Hold this heading" – turns on heading hold mode

"Flight Director on/off" – activates or deactivates the flight director

"Turn to nav heading" – if set, turns the plane to the indicated nav heading

"Yaw damper on/off" – activates or deactivates the yaw damper

"Set heading to one three five" (or chosen heading) – sets the heading bug to 135 degrees. Always a 3 digit number so 35 degrees would be "zero three five". If autopilot is on, then the heading will change.

"Set altitude to ten thousand five hundred feet" – sets the autopilot altitude to the given number. In whole thousands or five hundreds e.g. 7000, 7500, 8000. Up to 20,000 feet.

"Set flight level three zero zero" – sets the altitude to FL300 and causes the autopilot. NOTE – remember that if your throttle is too low, the rate of climb won't be fast.

"Turn on location mode"

"Turn on approach mode"

"Increase vertical speed"

"Decrease vertical speed"

"Copilot take over" / *"She is all yours"* – give control of the plane to your copilot

"Copilot return control" / *"I'll take it from here"* – take back control from your copilot

Radio Controls - *NEW

You can set your transponder codes using voice.

"Set transponder seven seven seven seven" – Will change your transponder code to 7777

"Swap Radio for standby" – swaps the current standby frequency in for the selected radio frequency

"ADF/DME1/DME2/VOR1/VOR2 Ident on/off" – turns those items on or off as available in your plane

"Swap NAV1/NAV2/COM1/COM2 for standby" – swaps the chosen radio frequency for the prepared standby frequency

View management - *NEW

"External Camera" – switches to the external camera

"Cockpit view" – returns to the cockpit view

"Enable/Disable Instrument view" – enables or disables the changing of viewpoint automatically during checklists – handy for VR

"Instrument View 1-9" – switches to look at panesl 1-9 inside the plane. NOTE – this varies by plane

"Forward view" – resets the view in COCKPIT mode to forward

Dreamliner Command Reference

Startup

(4 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. *"Perform the checklist"* – have your copilot perform all the items on the checklist for you and let you know when you're ready to fly

or

3. *"Take me through the checklist"* - Will give you instructions for each item on the checklist, change your view to the approximate area of the panels and wait for you to complete the item by clicking on the various controls

or

4. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Battery switch on"

"External power on"

"APU Selector to start" (you will need to wait for the APU to start)

"Fuel pumps on"

"Beacon light on"

"Zero Throttle"

"Right engine to start"

"Right engine fuel control switch to run"

"Monitor EICAS" – when you're happy with the engine start, move on
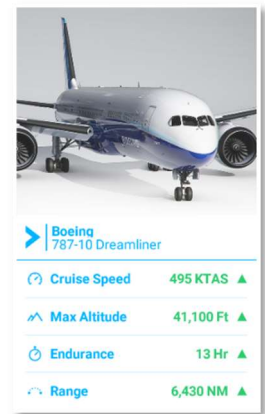
"Left engine to start"

"Left engine fuel control switch to run"

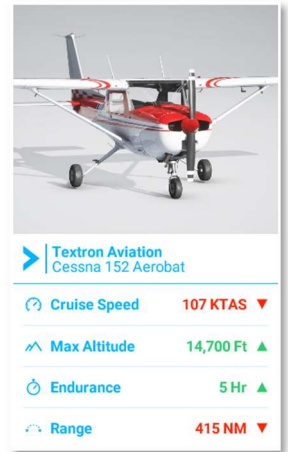*"Monitor EICAS"* – when you're happy with the engine start, move on

APU SELECTOR OFF – note – this currently needs you to control this switch manually

"Turn all lights on"

"Close checklist"

Cessna 152 & 152 Aerobat Command Reference

Startup

(3 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. *"Perform the checklist"* – have Your copilot perform all the items on the checklist for you and let you know when you're ready to fly

or

3. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Fuel shutoff valve open"

"Parking brake on"

"Mixture to rich"

"Carburettor heat to cold"

"Engine primer"

"Throttle to 20 percent" – or adjust manually

"Master switch on"

"Ignition to start"

"Throttle to 10 percent" – or adjust manually

"Nav lights on" – (if at night)

"Beacon lights on"

"Strobes on"

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Cessna 172 Skyhawk Command Reference

Startup

(2 options)

1.   "Auto start Engines" – the fast way of starting everything, skipping the checklist

Or

2.   Complete it yourself using voice control – WARNING the 172 checklist is extensive and requires manual cockpit interaction as well as voice triggers.

Voice controlled checklist

"Display Checklist"

"Parking Brake On"

"Battery switch on"

"Avionics On" – wait for the audible tone

"Avionics Off"

Annunciator Panel test – You have to perform this manually if you want

"Fuel Shutoff Valve Open"

"Flaps Down"

"Turn on PITOT heat"

"Turn off PITOT heat"

"Battery switch off"

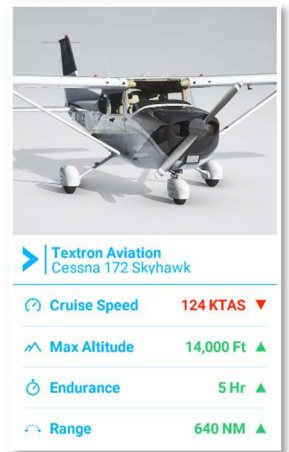*"Throttle to 20 percent"* – or adjust manually

"Mixture idle cutoff"

"Battery switch on"

"Beacon light on"

"Mixture to rich"

"Fuel pump on" – wait 3 to 4 seconds (there is an error in the checklist where it asks for mixture to lean – you can safely ignore this if using voice)

"Fuel pump off"

"Engine to start"

"Throttle to 10 percent"

"Turn Alternator On"

"Avionics On"

NOTE - Transponder to standby this function isn't controllable via voice – please set manually

"Flaps Up"

NOTE - Attitude indicator – you need to set this manually

"Taxi Lights On"

"Landing Light On"

"Strobe Lights On"

"Nav lights on"

"Parking brake off"

"Engage Autopilot"

"Disengage Autopilot"

"Throttle 60 percent"

"Magnetos Left"

"Magnetos Right"

"Magnetos Both"

"Throttle to 10 percent" – check for low rpm

"Throttle to 10 percent"

NOTE – Transponder to ALT isn't controllable via voice – please set manually

"Release Parking Brake"

"Flaps for takeoff"

When you're ready to taxi, contact ATC as required then:
"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Cessna Citation CJ4 Command Reference

Startup

(3 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

Or

2. *"Take me through the checklist"* - Will give you instructions for each item on the checklist, change your view to the approximate area of the panels and wait for you to complete the item by clicking on the various controls

Or

3. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Parking brake on"

"Throttle to zero" – or set manually

"Battery switch on"

"Avionics to dispatch"

"Right engine starter"

"Right engine run" **- NOTE there is a bug in MSFS and the engine run/stop won't work if your MIXTURE on your controller is set to LEAN. Please ensure they're set to RICH before you start.**

"Monitor ITT"

"Left engine starter"
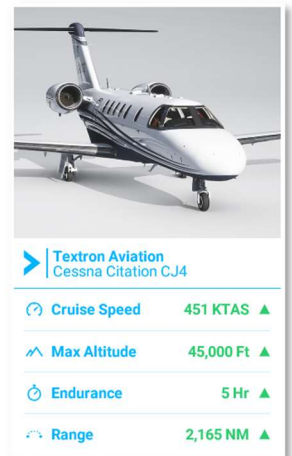
"Left engine run"

"Avionics On"

"Switch on all lights"

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Cessna 208B Grand Caravan

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. *"Perform the Cessna 208 checklist"* – have your copilot perform all the items on the checklist for you and let you know when you're ready to fly

or

3. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Fuel selector On" – *switches BOTH fuel selectors to the ON position for you*

"Throttle to zero" – *or set manually*

"Prop RPM to maximum" – *or set manually*

"Battery switch on"

"Beacon light on"

"Switch Avionics one on"

"Fuel Boost On"

"Starter On"

"Fuel condition lever low idle"

"Fuel boost to NORM"
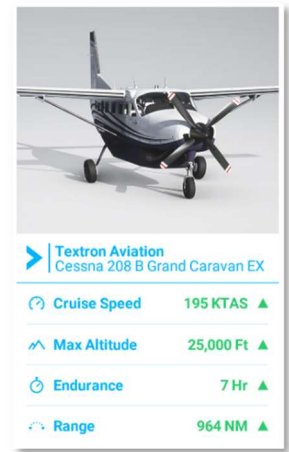
"Switch avionics 2 on"

"Parking Brake On"

"Turn Strobes On"

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Airbus A320
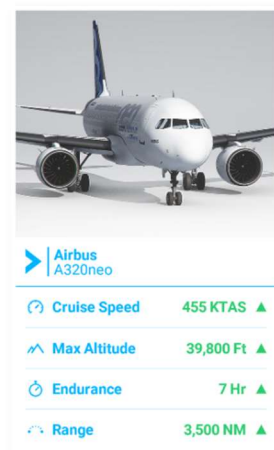
Startup

(1 option)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)
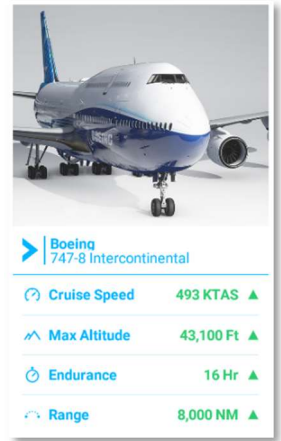
"Close checklist"

Boeing 747

Startup

(1 option)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

Or

1. *"Take me through the checklist"* - Will give you instructions for each item on the checklist, change your view to the approximate area of the panels and wait for you to complete the item by clicking on the various controls
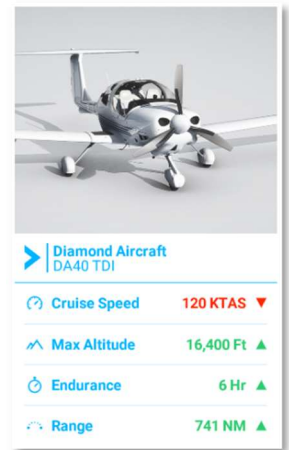
Diamond DA40 TDI

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"
(pre-flight checks are all correct by default, so we skip most of those as they are visually inspected and go right to "before starting engine")

"Parking brake on"

NOTE - Control stick – check this manually

"Master Battery on"

NOTE – Acknowledge Master Caution must be pressed manually

"Turn on strobes"

"Engine Master On"

"Engine Start"

"Avionics On"

"Turn on PITOT" (if required)

"Position lights on" (you can also say Nav lights on)

"Taxi lights on" (if required)

"Flaps for takeoff"

"Landing lights on" (if required)

NOTE – the Transponder to ALT command isn't possible via keypress or API, so you have to change manually

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Diamond DA40 NG

Startup

(2 options)

1.   *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2.   Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"
(pre-flight checks are all correct by default, so we skip most of those as they are visually inspected and go right to "before starting engine")

"Parking brake on"

"Master Battery on"

"Turn on strobes"

"Engine Master On"

"Electric Master Start"

"Avionics On"

"Position lights on" (you can also say Nav lights on)

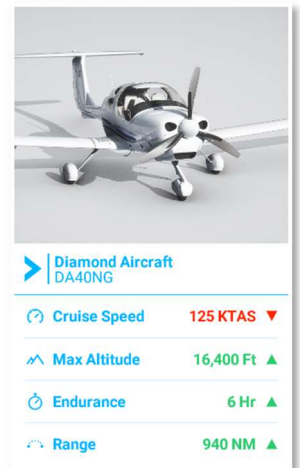*"Taxi lights on" (if required)*

"Flaps for takeoff"

"Landing lights on" (if required)

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)
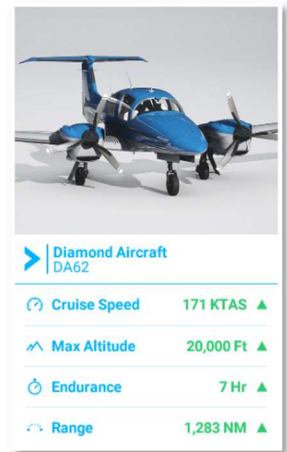
"Close checklist"

Diamond DA62

Startup

(2 options)

1.   *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2.   Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"
(pre-flight checks are all correct by default, so we skip most of those as they are visually inspected and only list things you need to set)

"Parking brake on" - *(it should already be on, but worth checking!)*

"Fuel selectors on"

"Master Alternator On"

"Master Battery On" - *Then, perform your various checks before:*

"Master Battery Off"

"Test the controls" **– will check fill movement on elevator, aileron and rudderNOTE - Check your control stick performs the right movements and the remaining checklist items before moving on**

"Master Battery On"

"Turn on strobes"

"Left Engine Master On"

"Start Left engine"

"Right Engine Master On"

"Start right engine"

"Avionics On"

"Turn on strobes"

"Engine Master On"

"Nav lights On"

"Taxi lights on"

"Landing lights on"

"Electric Master Start"

"Avionics On"

"Fuel selector crossfeed"

"Fuel selector on"

"Parking brake on"

"Flaps for takeoff"

"Flaps for landing" (verifying that they work)

"Flaps for takeoff"

"Landing Light On" (if required)

When you're ready to taxi, contact ATC as required then:

"Parking Brake off"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"
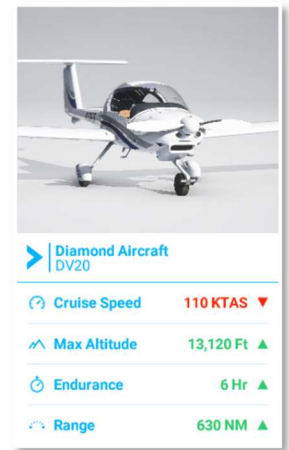
Diamond DV20

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"
(pre-flight checks are all correct by default, so we skip most of those as they are visually inspected and go right to "before starting engine")

"Parking brake on"

"Battery switch on"

The next few items are correct by default

"Electric fuel pump on"

"Choke fully pulled" - NOTE The choke must be set manually as there's no API or keybind control for it

"Start engine"

"Avionics On"

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Cub Crafter X Cub

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Parking brake on"

"Battery switch on"

"Mixture rich"

"Ignition Switch On"

"Alternator field on"

"Prop rpm to maximum"

"Throttle to 10 percent"

"Engine starter"

"Throttle to idle"

"Turn On Nav lights" (as required)

"Turn On Strobe Lights" (as required)

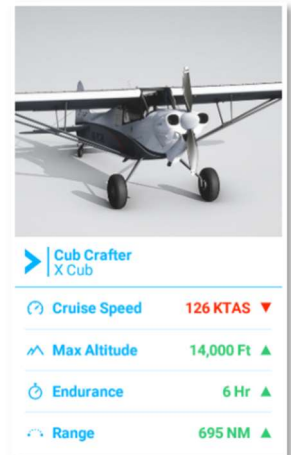*"Turn On Landing lights"* (as required)

"Avionics Master Switch on"

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

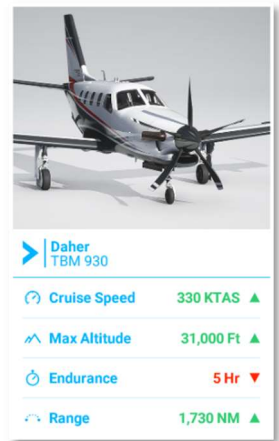*"Close checklist"*

TBM 930

Startup

(1 option)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Beechcraft Bonanza

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Parking brake on"

"Battery and alternator switch on"

"Mixture rich"

"Prop rpm to maximum"

"Throttle to full"

"fuel boost on" – wait until peak

"fuel boost off"

"throttle 20 percent"

"engine starter"

"throttle 10 percent"

"avionics on"

"turn on beacon light" (as required)

"turn on nav light" (as required)

"turn on strobe light" (as required)
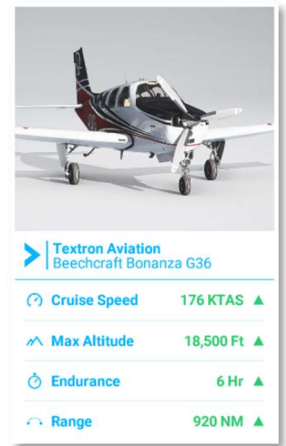
"turn on taxi light" (as required)

"Turn on landing lights" (as required)

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Beechcraft Baron

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

Check parking brake, throttle to idle and prop RPM visually – if necessary set with your controls and/or voice

"Prop RPM to maximum"

"Condition levers to rich"

"Master battery to on"

"Master alternator on"

"Fuel selector on"

"Right throttle to full"

"Right fuel boost pump on" – wait for a few seconds

"Right fuel boost pump off"

"Right throttle 20 percent"
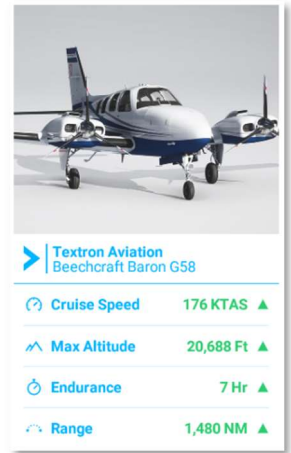
"Right engine start"

"Right throttle to zero"

"Left Throttle to full"

"Left fuel boost pump on"

"Left fuel boost pump off"

"Left throttle 20 percent"

"Left engine start"

"Avionics on"

"turn on beacon light" (as required)

"turn on nav light" (as required)

"turn on strobe light" (as required)

"turn on taxi light" (as required)

"Turn on landing lights" (as required)

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Beechcraft King Air

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Parking brake on"

"Prop RPM to maximum"

"Condition levers to fuel cutoff"

"Battery switch on"

"Right engine start" Wait until N1 reaches 12%

"Right Condition lever low idle"

"Right ignition off" when N1 reaches 50%

"Right Condition lever high idle"

"Right generator on"

"Left engine start" Wait until N1 reaches 12%

"Left Condition lever low idle"

"Left ignition off" when N1 reaches 50%

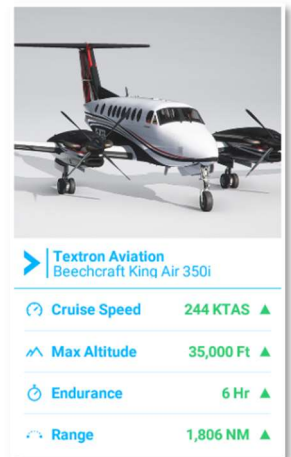*"Left Condition lever high idle"*

"Left generator on"

"Avionics on"

"turn on beacon light" (as required)

"turn on nav light" (as required)

"turn on strobe light" (as required)

"turn on taxi light" (as required)

"Turn on landing lights" (as required)

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Cirrus SR22

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Parking brake on"

"Master Battery On"

"Turn on strobe lights"

"Mixture to rich"

"Throttle to full"

"Fuel pump to prime"

"Fuel pump to boost"

"Throttle to 10%"

"Engine start"

"Throttle to 20%"

"Throttle to 10%"

"Throttle to idle"
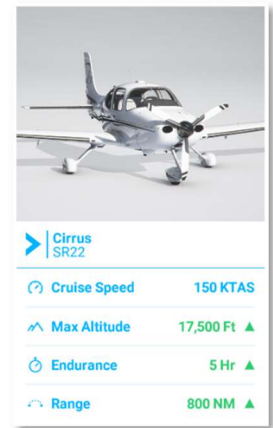
"Master alternator on"

"Avionics on" – **NOTE it will switch on but not detect that you've done it**

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"

Extra 330 LT

Startup

(2 options)

1. *"Auto start Engines"* – the fast way of starting everything, skipping the checklist

or

2. Complete it yourself using voice control

Voice controlled checklist

"Display Checklist"

"Fuel selector on"

"Battery switch on"

"Master alternator on"

"Turn on strobe lights"

"Turn on nav lights"

"Prop rpm lever to maximum"

"Throttle 10%"

"Boost pump on" - Wait for flow peak then

"Boost pump off"

"Ignition start"

"Avionics on"

When you're ready to taxi, contact ATC as required then:

"Release parking brake"

"Request pushback" (if needed and available or manage via the ATC menu options)

"Close checklist"