

JARDesign Group

# CoPilot plugin for JARDesign A340-500 (X-Plane 12)

(how to Install and Use)



## features:

- + animated 3d CoPilot model
- + recognize and execute voice/menu/widget commands
- + speak
- + read checklists
- + operate with Events (based on flight parameters and situation)
- + execute SOP (Normal Procedures)

# LICENSE AGREEMENT

By installing this Software product («JARDesign CoPilot» - X-Plane 12 plugin), you agree to be bound by the terms of this Agreement. If you do not agree to the terms of this Agreement, please, do not install or use the Product.

You may install the Software onto a single computer for your personal, noncommercial use subject to these conditions:

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5. REFUND POLICY: As you have ability to use DEMO version and check is it work or not BEFORE purchase, NO REFUND may be given.
6. Serial key may be activated with one aircraft installed for only one Computer ID. After first activation your serial key may be used with the same aircraft at the same computer (detected as Computer ID).

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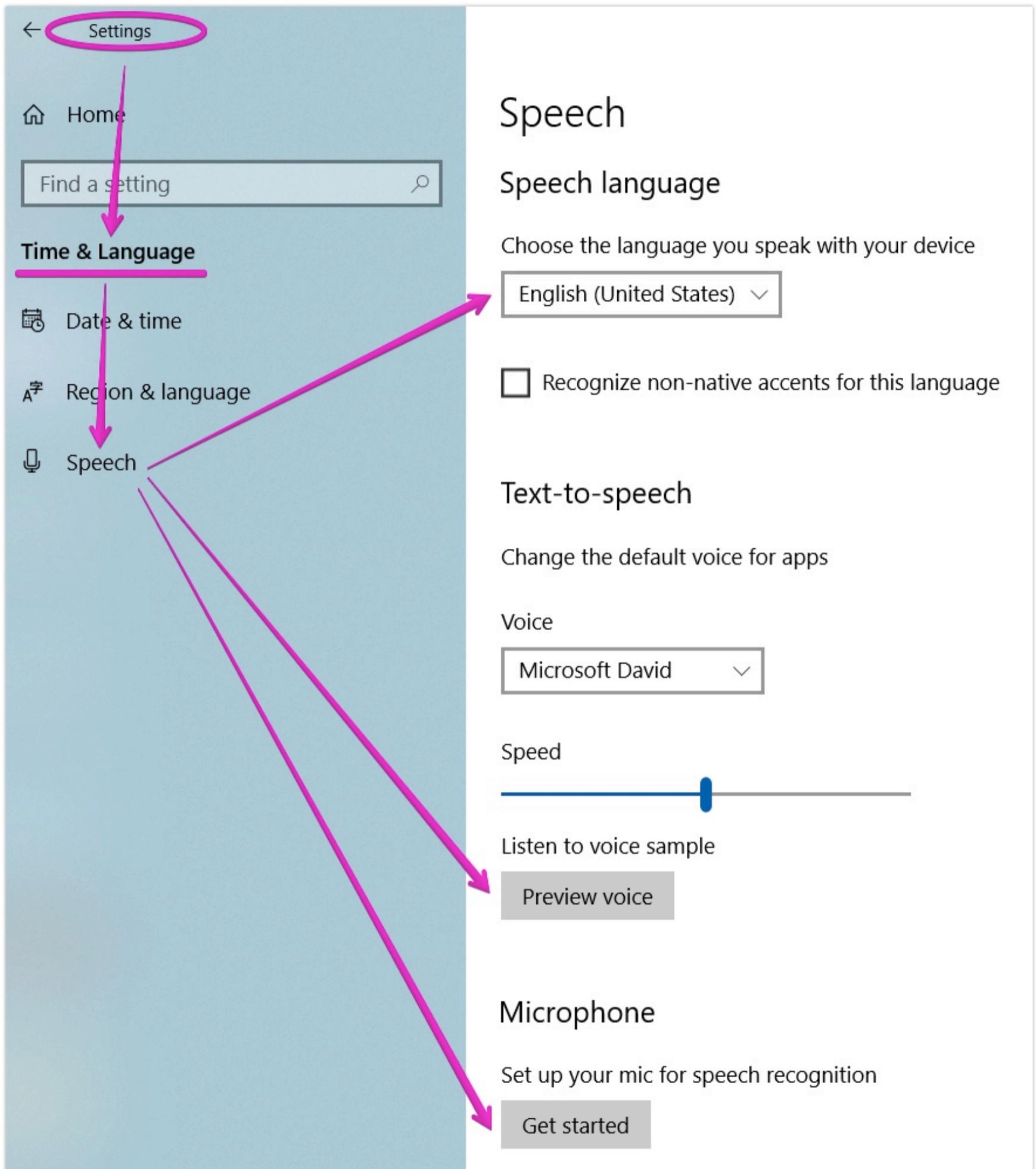
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## STEP-BY-STEP

1. Setup speech/recognition engine at your computer (read below)
2. Copy CoPilot plugin files to your compatible aircraft "/plugins/" folder.
3. Load aircraft and setup plugin and hardware.
4. Check what you see copilot in cockpit, it animated, speak and recognize your voice command.
5. Use.

# SETUP SPEECH RECOGNITION (WINDOWS 10)

Please be sure what US English language pack is already installed and English selected as Windows display language



Please select English language for Recognition, run voice preview, setup microphone.

Settings

Home

Find a setting

**Time & Language**

Date & time

**Region & language**

Speech

## Region & language

### Country or region

Windows and apps might use your country or region to give you local content

Russia

### Languages

Windows display language

Windows features like Settings and File Explorer will appear in this language.

English (United States)

### Preferred languages

Apps and websites will appear in the first language in the list that they support.

+ Add a language

English (United States)  
Windows display language

Русский  
Language pack installed

**Add English if not exist**

Next turn recognition On (You may skip this step if you have Non-English interface at your Windows)

The image shows a Windows Settings window with the 'Settings' title bar circled in pink. A pink arrow points from the 'Settings' title bar down to the 'Speech' option in the left-hand navigation pane. Another pink arrow points from the 'Speech' option to the 'Turn on Speech Recognition' toggle switch, which is currently turned 'On'. The right-hand pane displays the 'Speech' settings page, including a description, instructions for using dictation, and a list of supported languages.

**Settings**

Home

Find a setting

**Ease of Access**

Vision

- Display
- Cursor & pointer size
- Magnifier
- Color filters
- High contrast
- Narrator

Hearing

- Audio
- Closed captions

**Interaction**

- Speech**
- Keyboard
- Mouse

## Speech

Make your device easier to use if you have limited reach or strength.

### Talk instead of type

Use dictation to make text entry easier (US English only).

Press the Windows logo key **⊞** + H to start dictation. On the touch keyboard, select the microphone **🎤** button.

[Get more info about dictation](#)

### Dictate text and control your device using only your voice

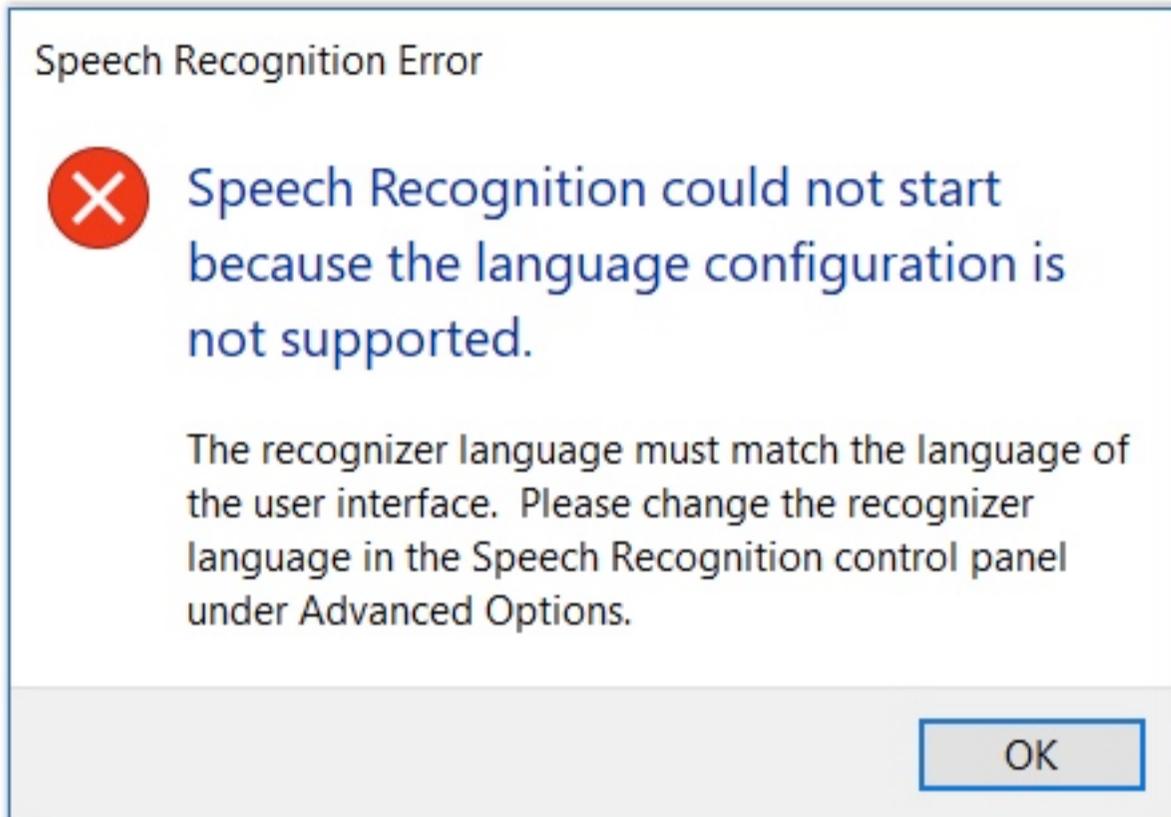
Turn on Speech Recognition

On

Speech Recognition is only available for the following languages: English (United States, United Kingdom, Canada, India, and Australia), French, German, Japanese, Mandarin (Chinese Simplified and Chinese Traditional) and Spanish.

Press the Windows logo key **⊞** + Ctrl + S to toggle Speech Recognition on or off.

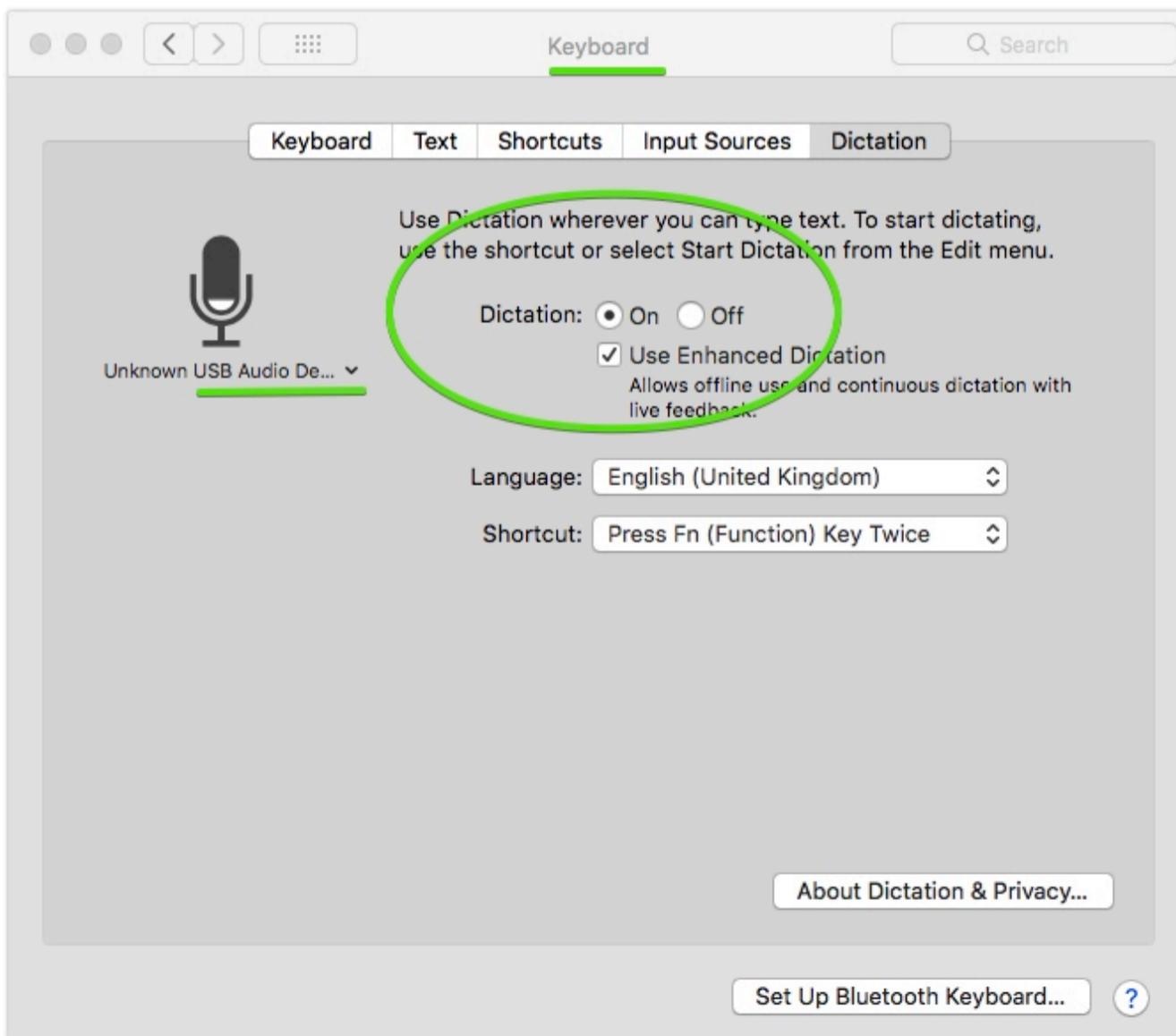
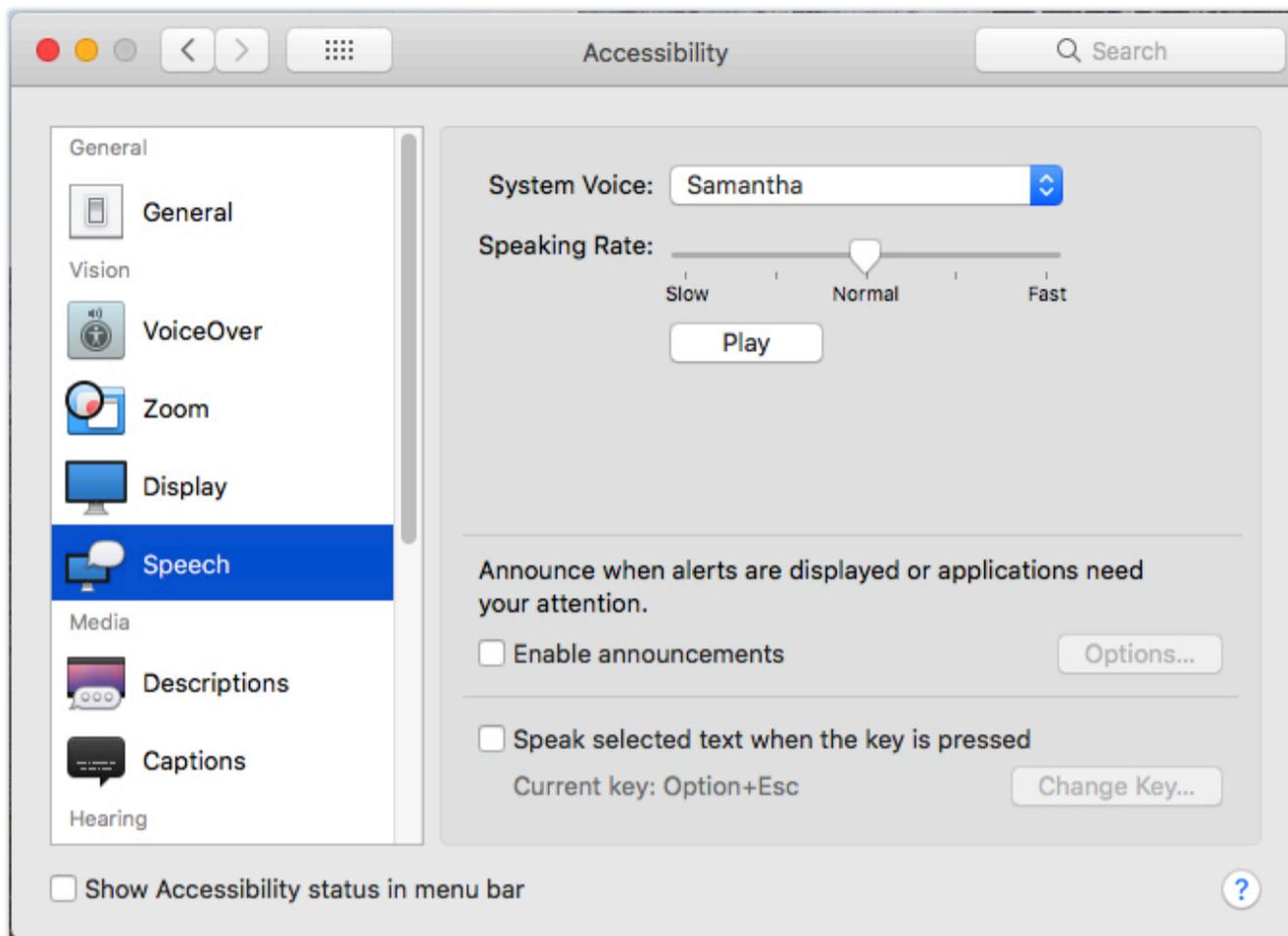
If you will get this error, you need setup English as user interface language (Windows display language) and English as your recognition language (language you speak with your device) and reload computer.



**Please use this basic manual if need:**

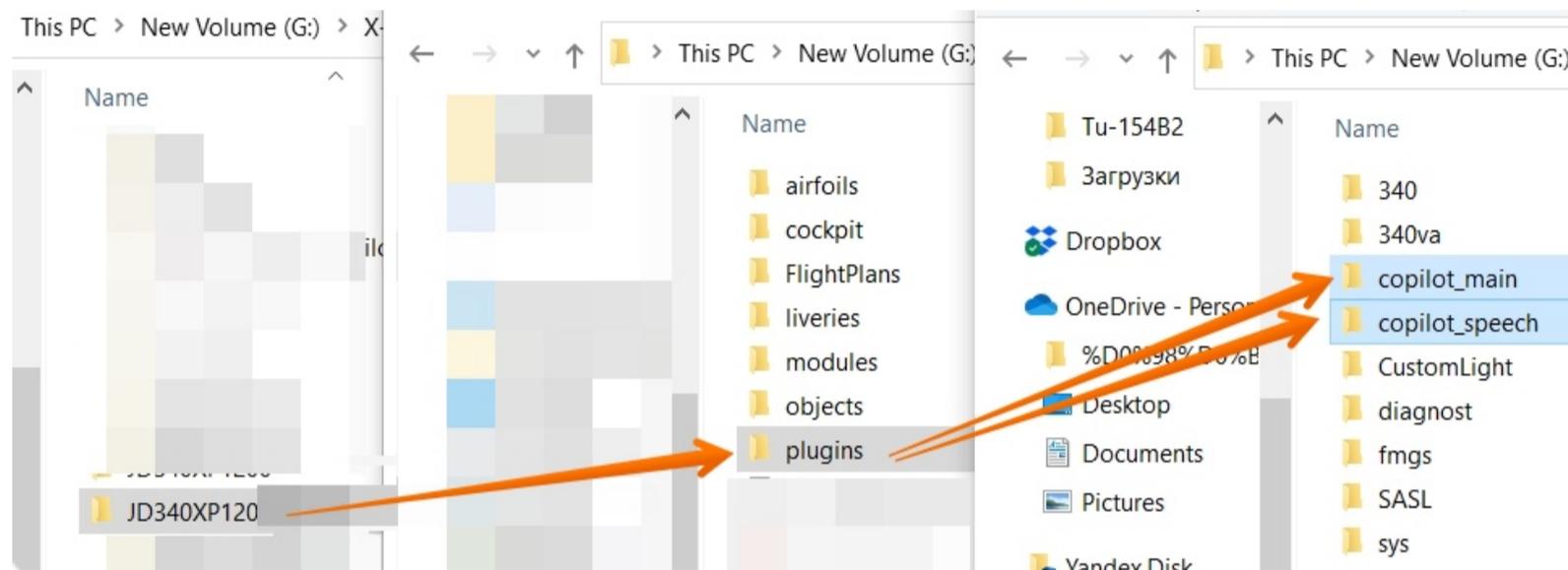
<https://www.windowcentral.com/how-set-speech-recognition-windows-10>

# SETUP SPEECH / RECOGNITION (MAC OS)

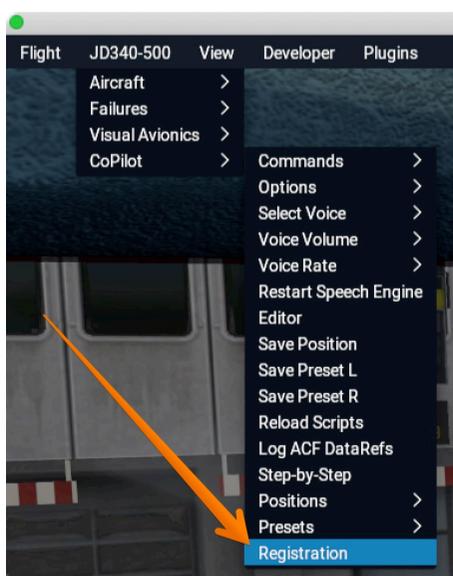


# INSTALL PLUGIN

1. Find your JD340-500 aircraft plugins folder inside ../X-Plane\_12/Aircraft/JD340\_XP12/plugins/ or path like this.
2. UnZip copilot distributive and Put "copilot\_main" and "copilot\_speech" folders from your ZIP pack to "../JD340\_XP12/plugins/" folder



3. Run X-Plane and load A340-500. You will get offer to install Copilot plugin. Do this.
4. You may use copilot on the ground to test it and decide do you need register it with payware serial key.
5. Call X-Plane upper Menu -> JD340-500 -> CoPilot -> Registration to register plugin and make it worked during whole flight.



6. Power up aircraft and use MCDU MENU and select SETTINGS to turn CoPilot ON.



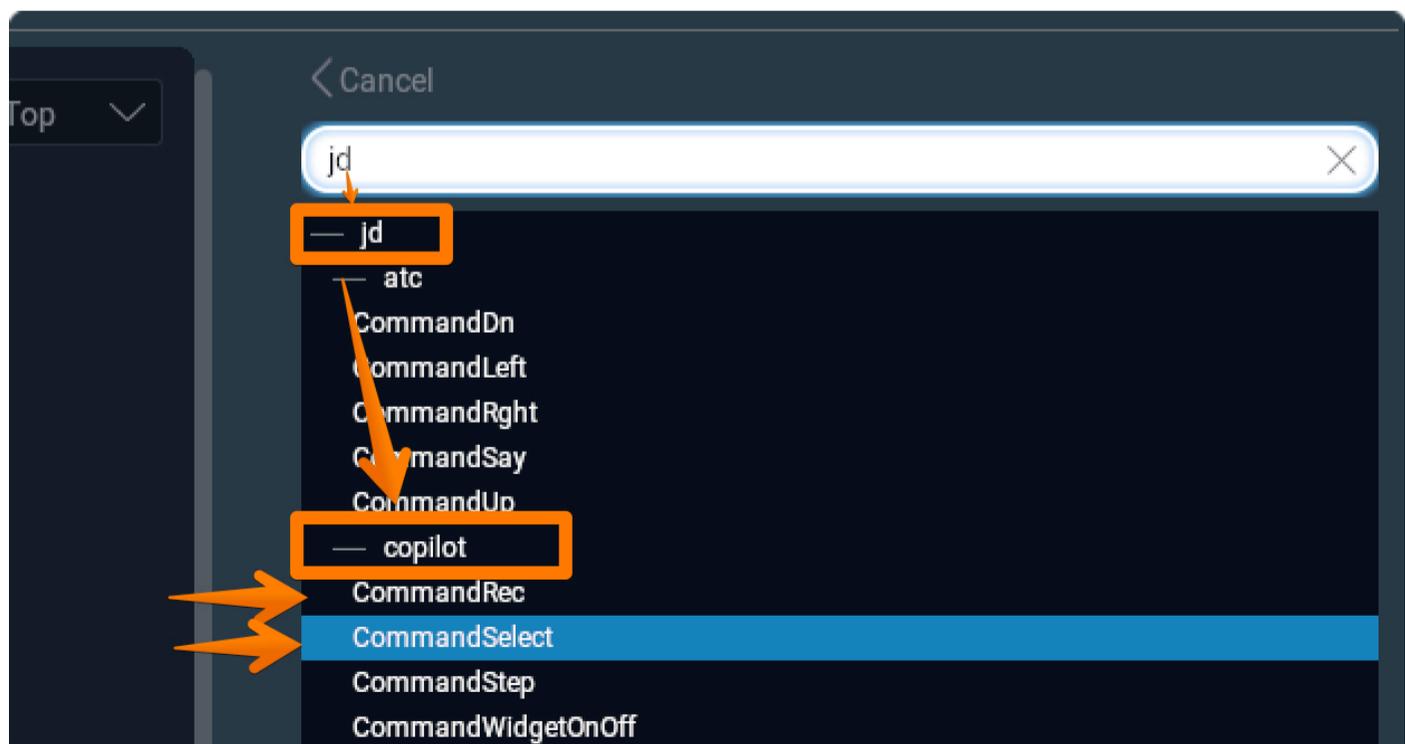
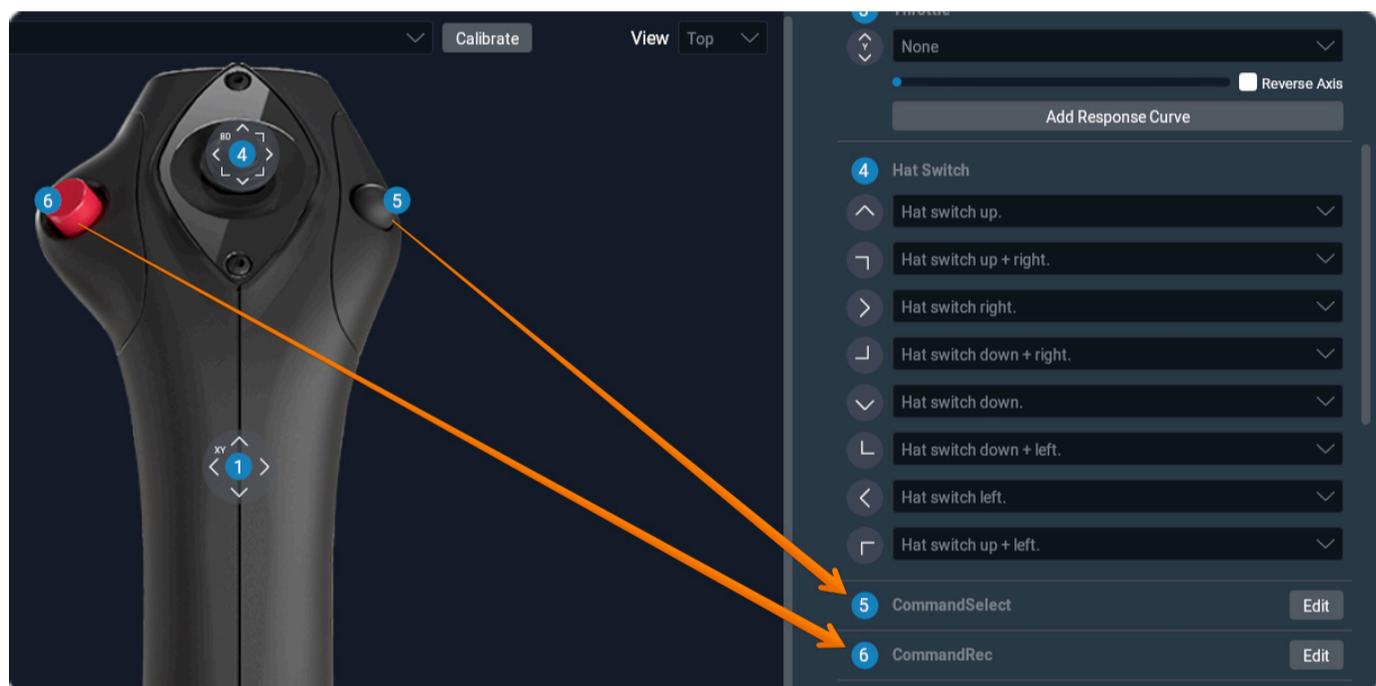
# SETUP

For voice input - **You need** to have microphone or headset to use this plugin. Speech recognition should be setup and checked on your OS before copilot plugin installation.

For mouse/button click input - **You need** setup your Windows/MACOS speech settings only and skip voice recognition setup.

Open your X-Plane joystick settings and **assign**:

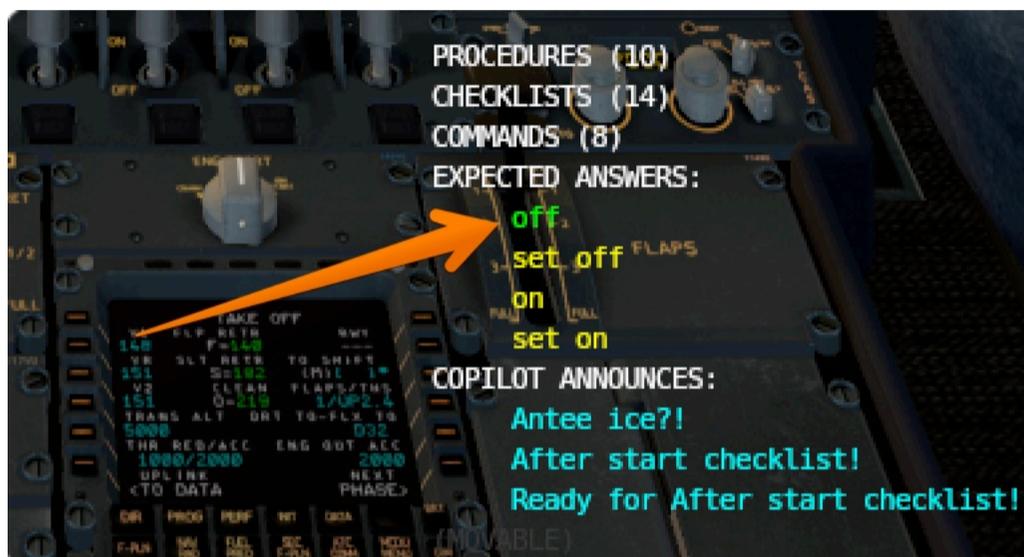
- one joystick button to jd/copilot/**CommandSelect** (for command selection)
- one joystick button to jd/copilot/**CommandRec** (for voice recognition)



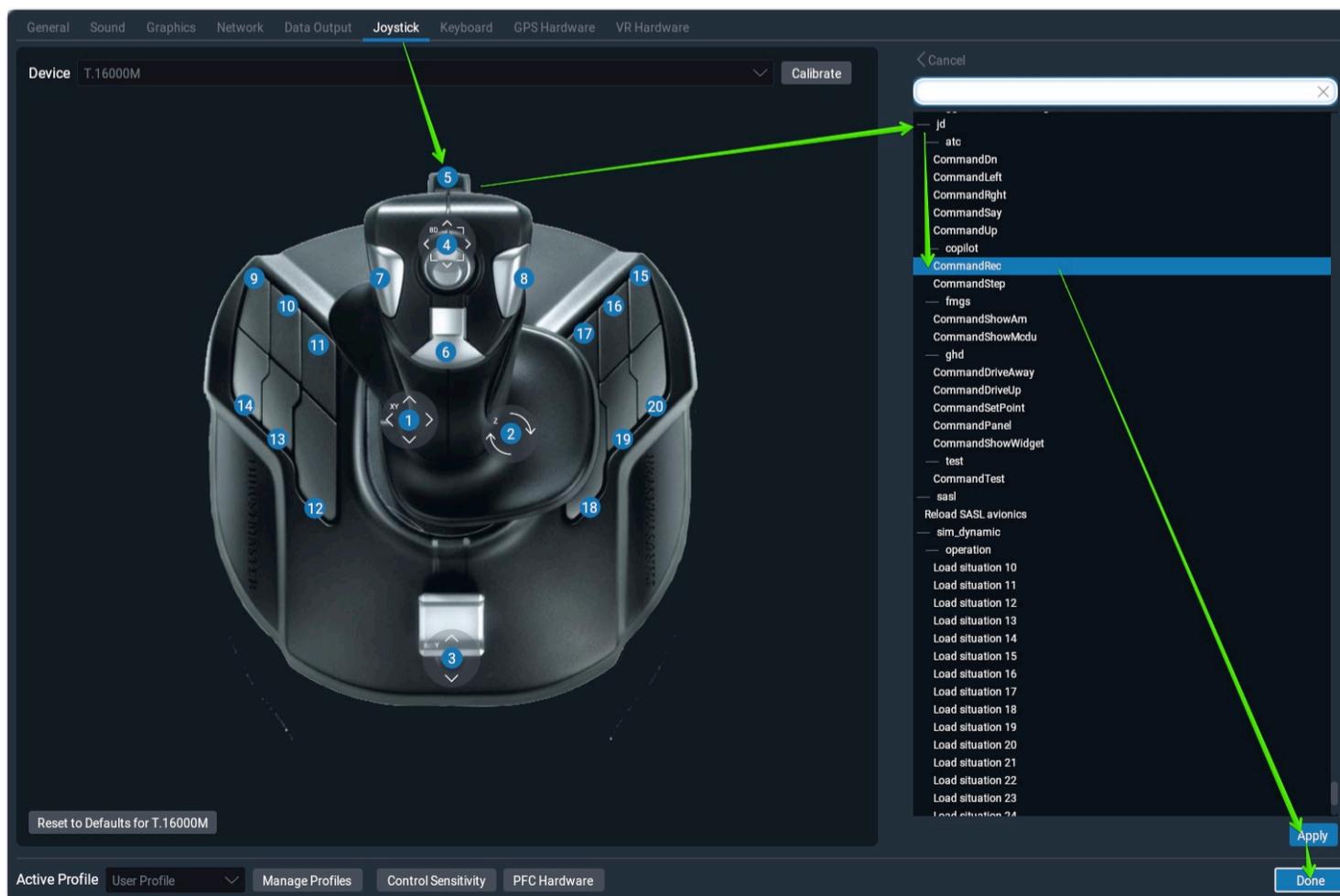
# HOW TO USE

You may speak with CoPilot via voice or select commands via Menu or select command via widget. When you run checklist - expected answers (clickable) will be indicated in yellow.

You may click it with mouse or use Select button. Short click on Select button will change selected command. Long tap will confirm selected command.

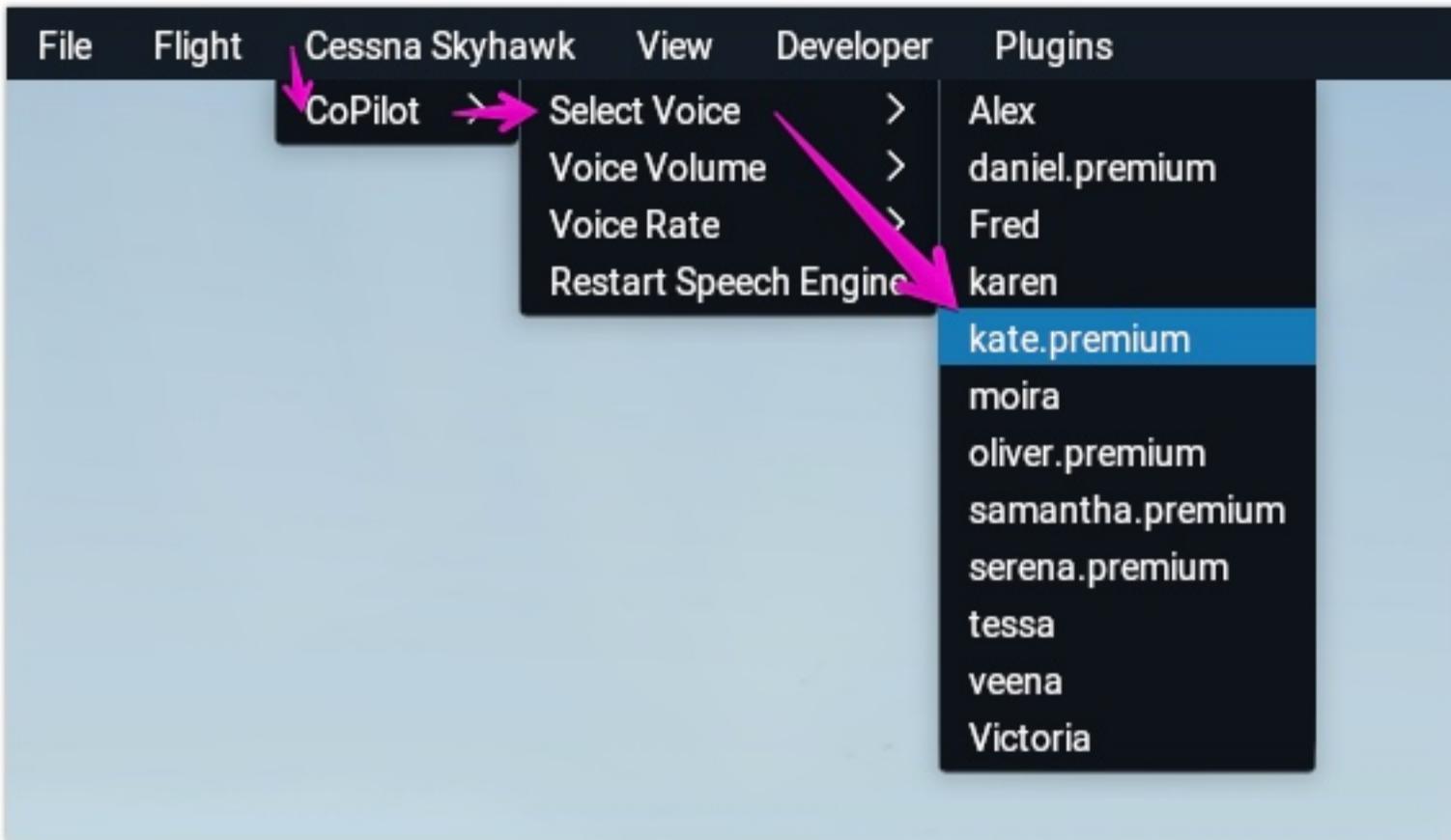


If you prefer voice control, you need setup special joystick (sure, keyboard may be used too) button to jd/CommandRec.



You may look at CoPilot, hold this joystick button and say something like "Hello!" Typical pattern - press the button, say the text, release the button.

You can change speech parameters using Menu, like this:

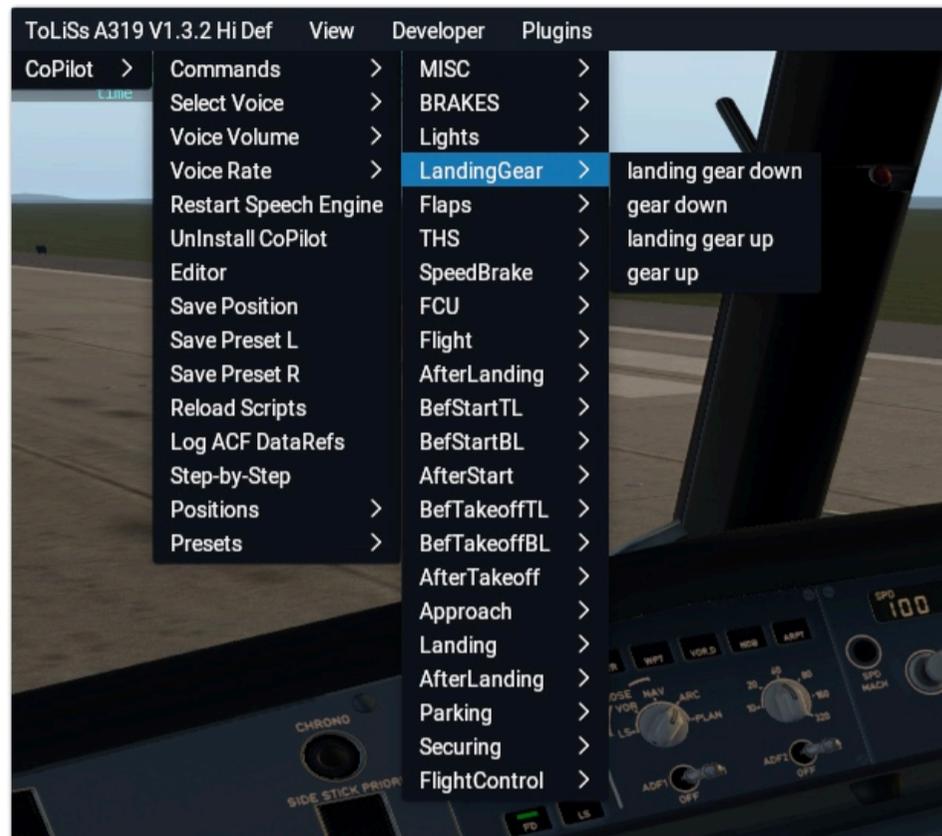


CoPilot widget have movable area ("MOVABLE" text in grey color) - You may use it to change widget position on the screen.



# HOW TO KNOW WHAT COMMANDS MAY BE USED

1. Use Menu -> CoPilot -> Commands to see full list of commands what may be activated by voice, by this menu or by widget menu.



Widget may show you a shortlist of commands for actual flight phase. Sure, any command may be used in any time by menu or by voice input. You may show and hide widget using this command (assign it to your keyboard or joystick):

## HOW TO UNINSTALL PLUGIN

1. Run X-Plane and load JD340-500. Select upper aircraft MENU -> CoPilot -> Uninstall CoPilot.
2. Delete "copilot\_main" and "copilot\_speech" folders from "../JD340\_XP12/plugins/" folder

### PRODUCT WEBPAGE:

<http://www.jardesign.org>

### SUPPORT

<http://www.support.jardesign.org>

| <b>BEFORE START</b>            |                  |
|--------------------------------|------------------|
| COCKPIT PREP . . . . .         | COMPLETED (BOTH) |
| GEAR PINS and COVERS . . . . . | REMOVED          |
| SIGNS . . . . .                | ON / AUTO        |
| ADIRS . . . . .                | NAV              |
| FUEL QUANTITY . . . . .        | _____ KG.LB      |
| TO DATA . . . . .              | _____ SET        |
| BARO REF . . . . .             | _____ SET (BOTH) |
| WINDOWS/DOORS . . . . .        | CLOSED (BOTH)    |
| BEACON . . . . .               | ON               |
| THR LEVERS . . . . .           | IDLE             |
| PARKING BRAKE . . . . .        | AS RQRD          |

| <b>AFTER START</b>    |           |
|-----------------------|-----------|
| ANTI ICE . . . . .    | AS RQRD   |
| ECAM STATUS . . . . . | CHECKED   |
| PITCH TRIM . . . . .  | _____ SET |
| RUDDER TRIM . . . . . | ZERO      |

| <b>BEFORE TAKEOFF</b>       |                  |
|-----------------------------|------------------|
| FLIGHT CONTROLS . . . . .   | CHECKED (BOTH)   |
| FLT INST . . . . .          | CHECKED (BOTH)   |
| BRIEFING . . . . .          | CONFIRMED        |
| FLAP SETTING . . . . .      | CONF – (BOTH)    |
| V1.VR.V2/FLX TEMP . . . . . | – (BOTH)         |
| ATC . . . . .               | SET              |
| ECAM MEMO . . . . .         | TO NO BLUE       |
| . SIGNS ON                  | . AUTO BRK MAX   |
| . CABIN READY               | . TO CONFIG NORM |
| . SPLRS ARM                 |                  |
| . FLAPS TO                  |                  |

|                         |         |
|-------------------------|---------|
| CABIN CREW . . . . .    | ADVISED |
| ENG START SEL . . . . . | AS RQRD |
| PACKS . . . . .         | AS RQRD |

| <b>AFTER TAKEOFF / CLIMB</b> |                  |
|------------------------------|------------------|
| LDG GEAR . . . . .           | UP               |
| FLAPS . . . . .              | RETRACTED        |
| PACKS . . . . .              | ON               |
| BARO REF . . . . .           | _____ SET (BOTH) |

| <b>APPROACH</b>         |                  |
|-------------------------|------------------|
| BRIEFING . . . . .      | CONFIRMED        |
| ECAM STATUS . . . . .   | CHECKED          |
| SEAT BELTS . . . . .    | ON               |
| BARO . . . . .          | _____ SET (BOTH) |
| MDA/DH . . . . .        | _____ SET (BOTH) |
| ENG START SEL . . . . . | AS RQRD          |

| <b>LANDING</b>       |             |
|----------------------|-------------|
| CABIN CREW . . . . . | ADVISED     |
| A/THR . . . . .      | SPEED/OFF   |
| ECAM MEMO . . . . .  | LDG NO BLUE |
| . SIGNS ON           | . FLAPS LDG |
| . CABIN READY        | . SPLRS ARM |
| . LDG GEAR DN        |             |

| <b>AFTER LANDING</b> |           |
|----------------------|-----------|
| FLAPS . . . . .      | RETRACTED |
| SPOILERS . . . . .   | DISARMED  |
| APU . . . . .        | START     |
| RADAR . . . . .      | OFF/STBY  |

| <b>PARKING</b>               |         |
|------------------------------|---------|
| APU BLEED . . . . .          | ON      |
| ENGINES . . . . .            | OFF     |
| SEAT BELTS . . . . .         | OFF     |
| EXT LT . . . . .             | AS RQRD |
| FUEL PUMPS . . . . .         | OFF     |
| PARK BRK and CHOCKS. . . . . | AS RQRD |

| <b>SECURING AIRCRAFT</b>  |     |
|---------------------------|-----|
| ADIRS . . . . .           | OFF |
| OXYGEN . . . . .          | OFF |
| APU BLEED . . . . .       | OFF |
| EMER EXIT LT . . . . .    | OFF |
| NO SMOKING . . . . .      | OFF |
| APU . . . . .             | OFF |
| BAT 1+2+APU BAT . . . . . | OFF |