

JARDesign Group

# CoPilot plugin for ZIBO-737

## (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, Limited)



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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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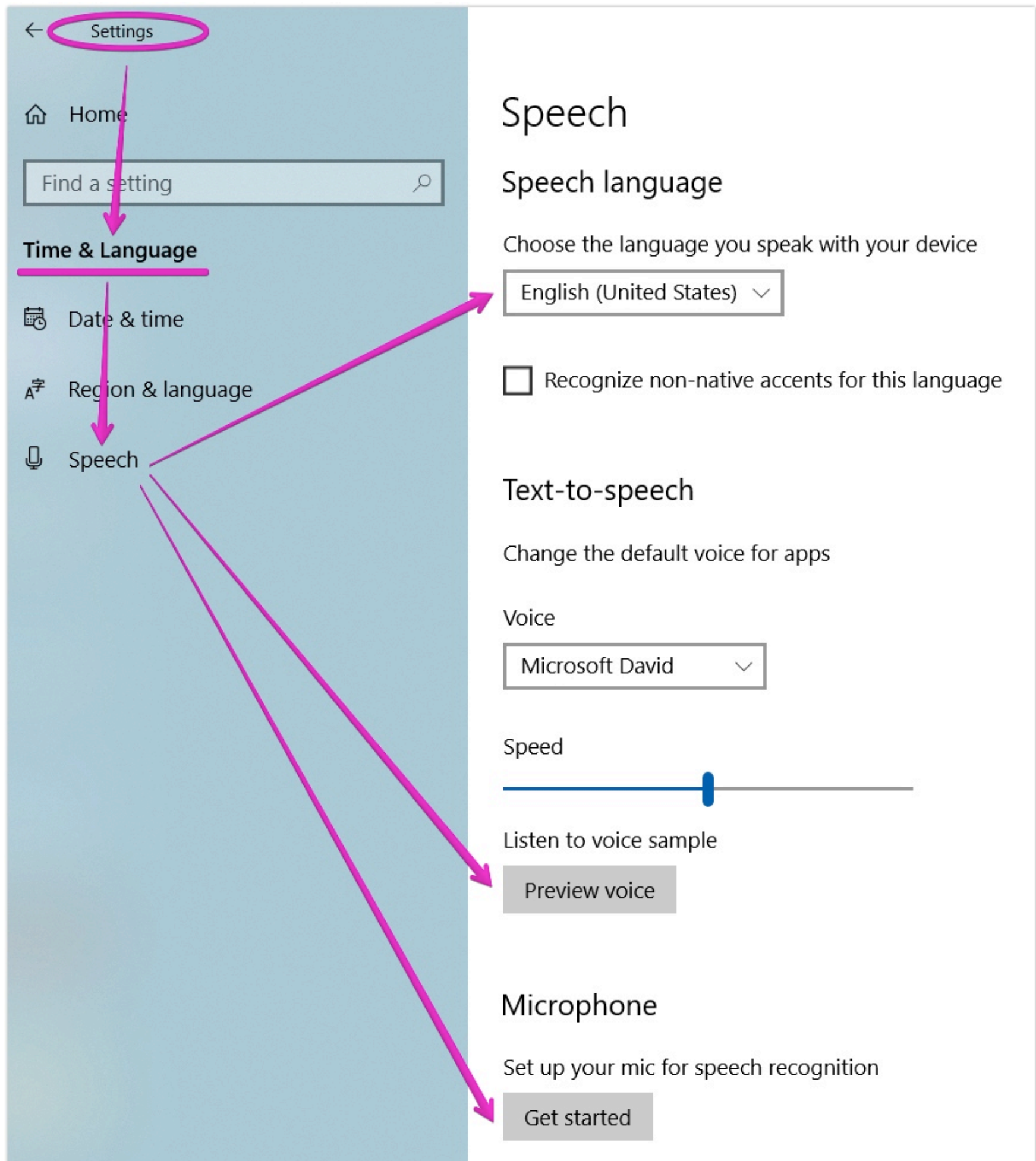
## STEP-BY-STEP

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

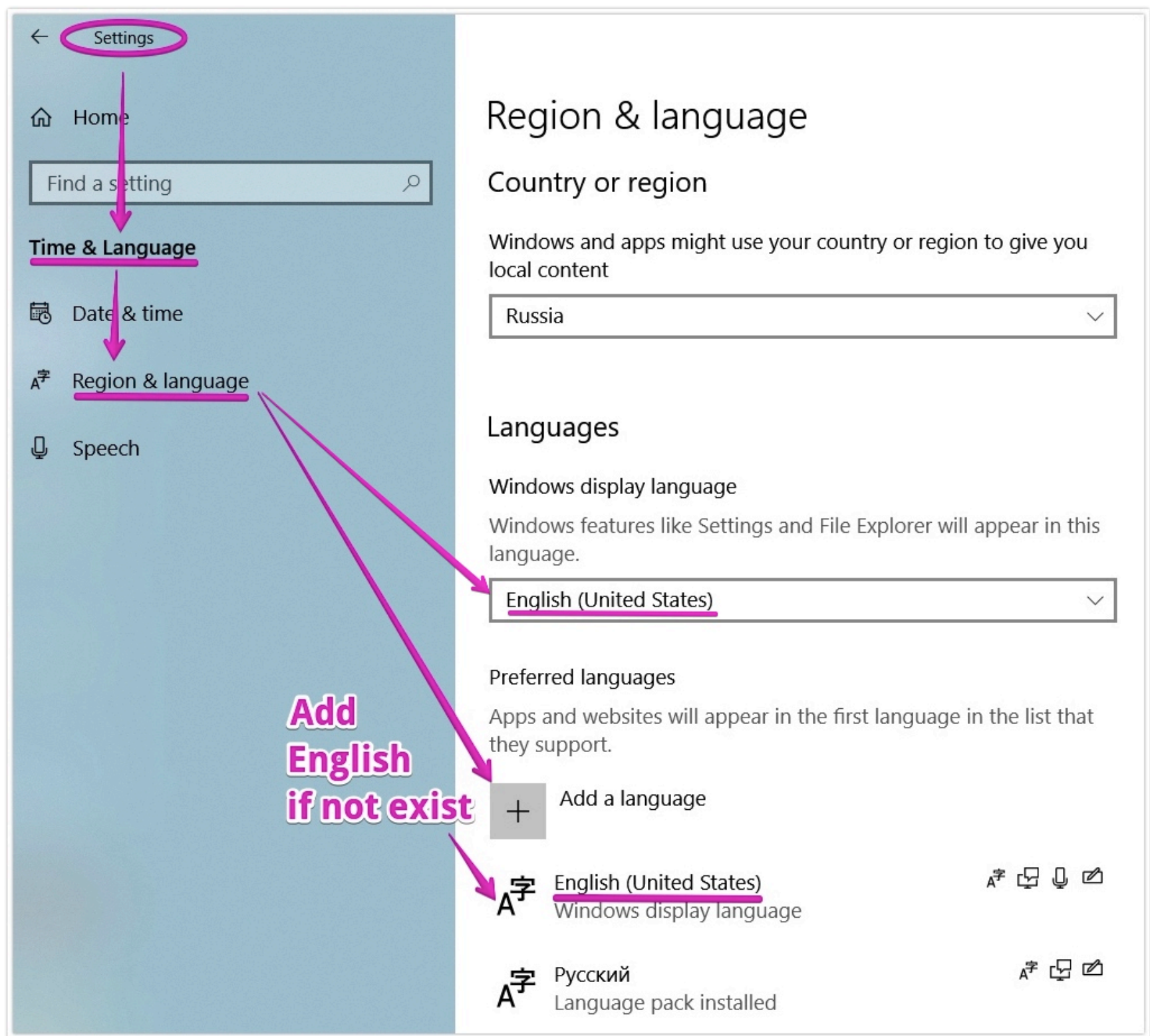


# SETUP SPEECH RECOGNITION (WINDOWS 10)

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

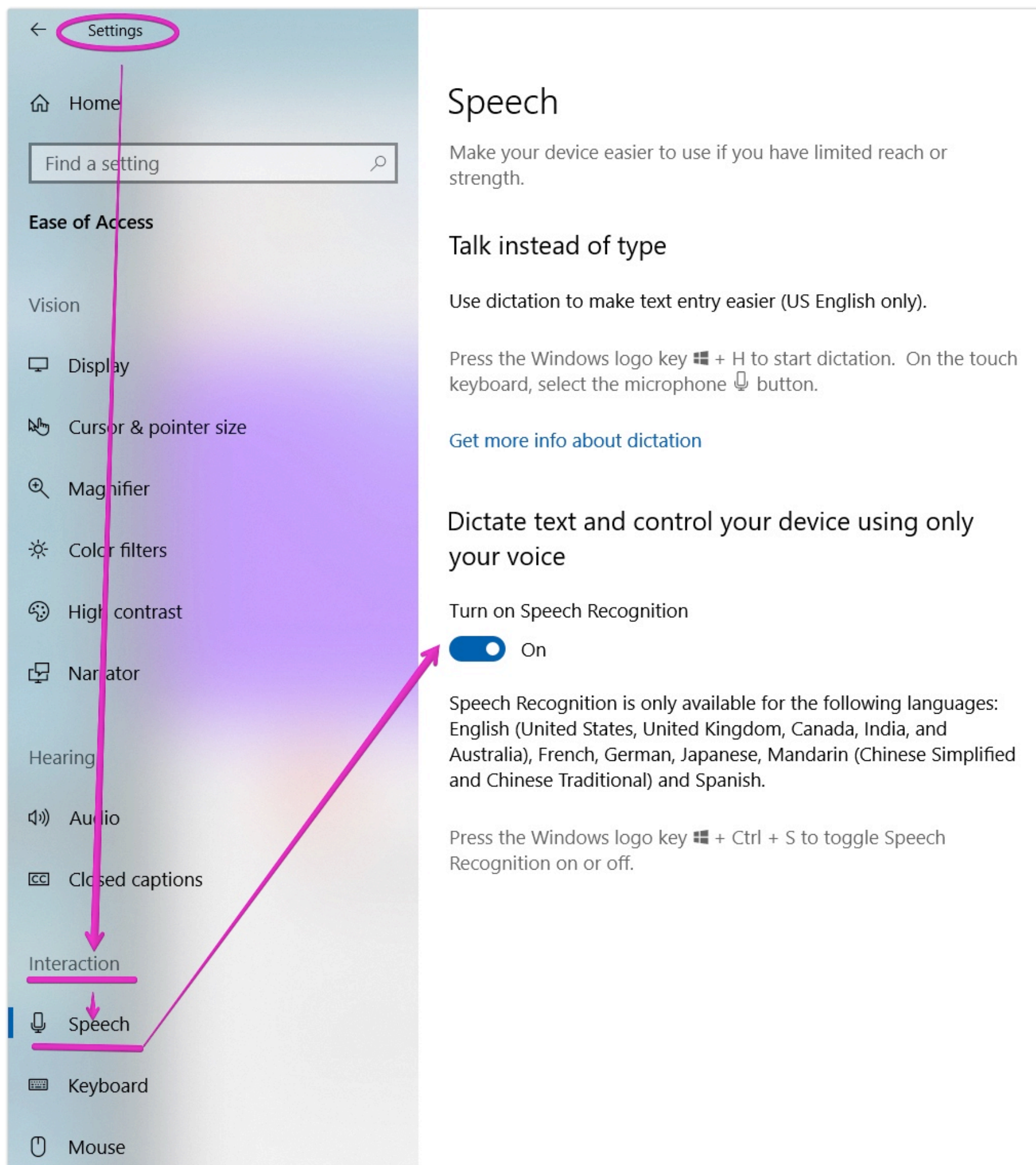


Please select English language for Recognition, run voice preview, setup microphone.

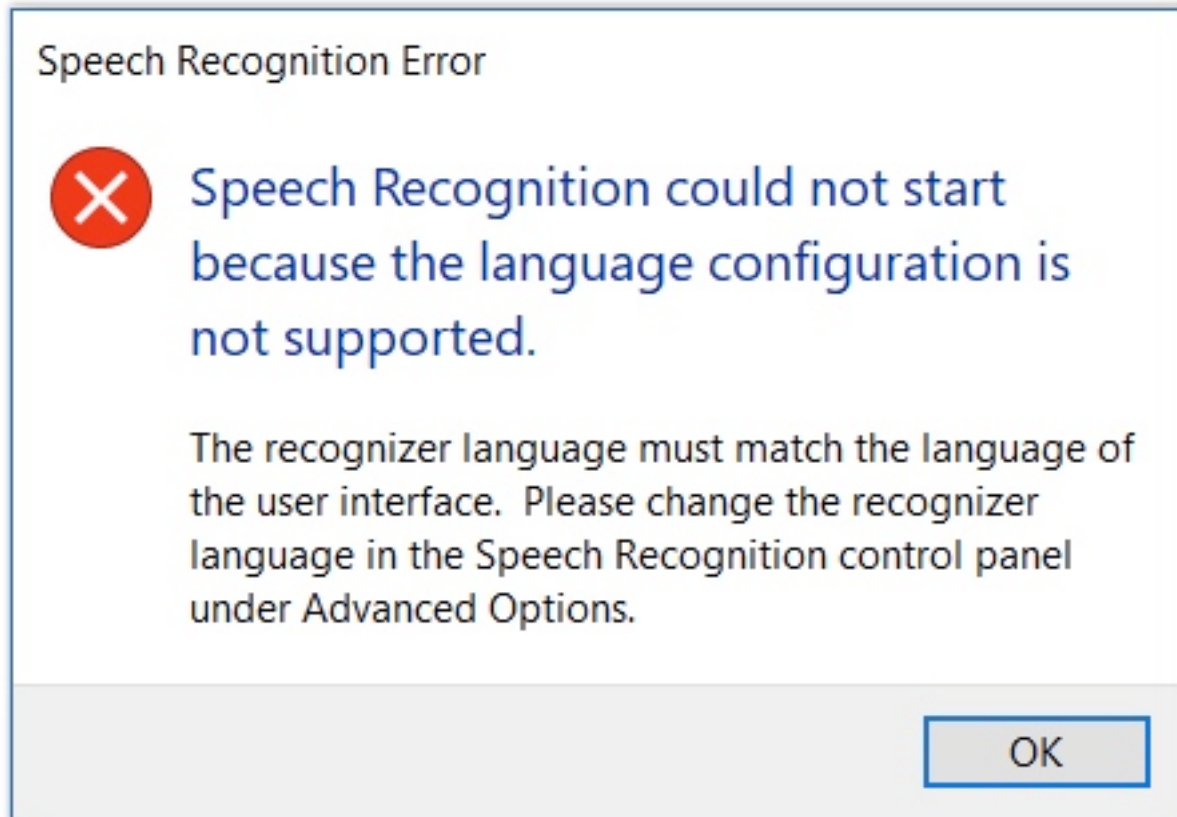




Next turn recognition On (You may skip this step if you have Non-English interface at your Windows)



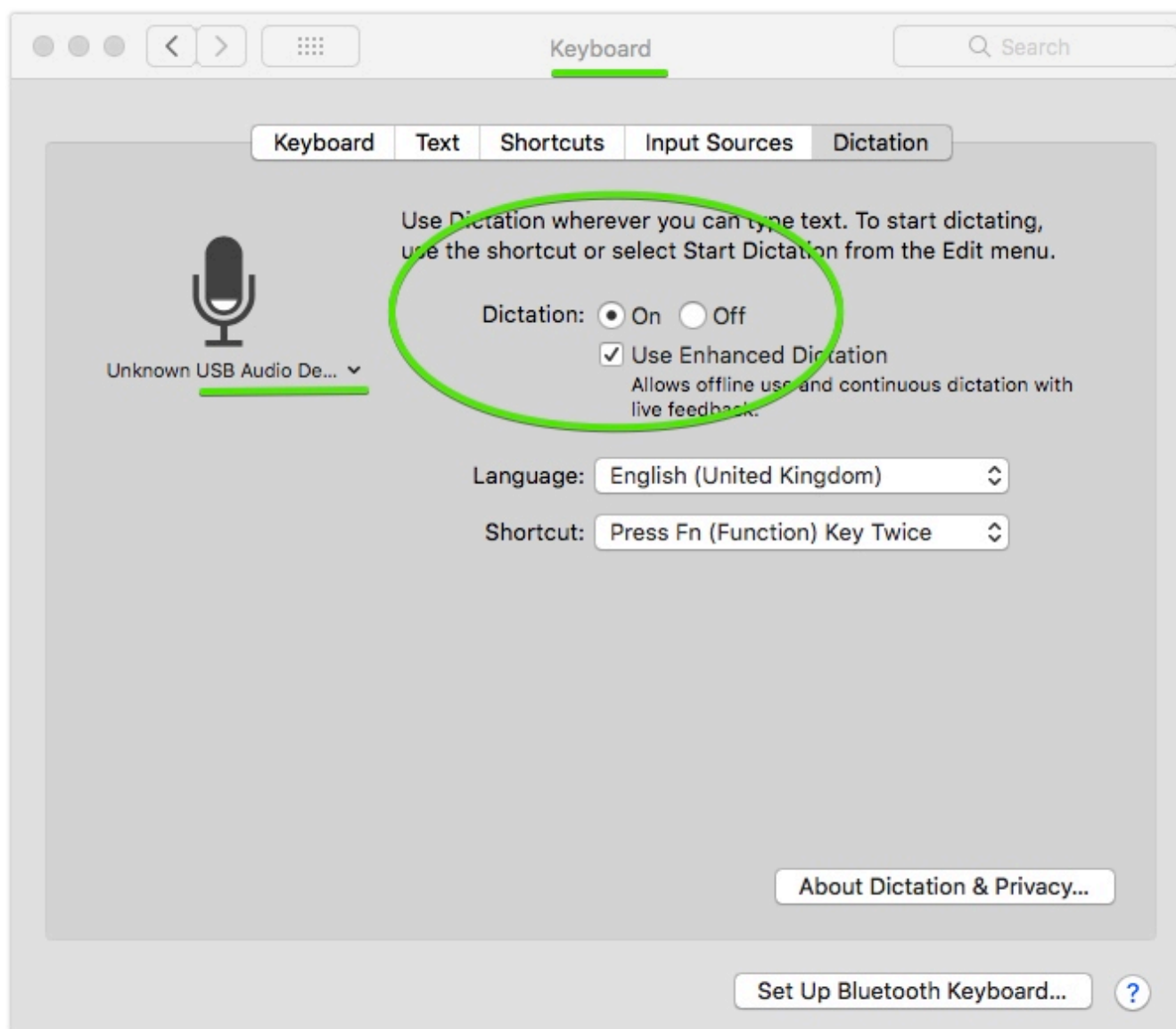
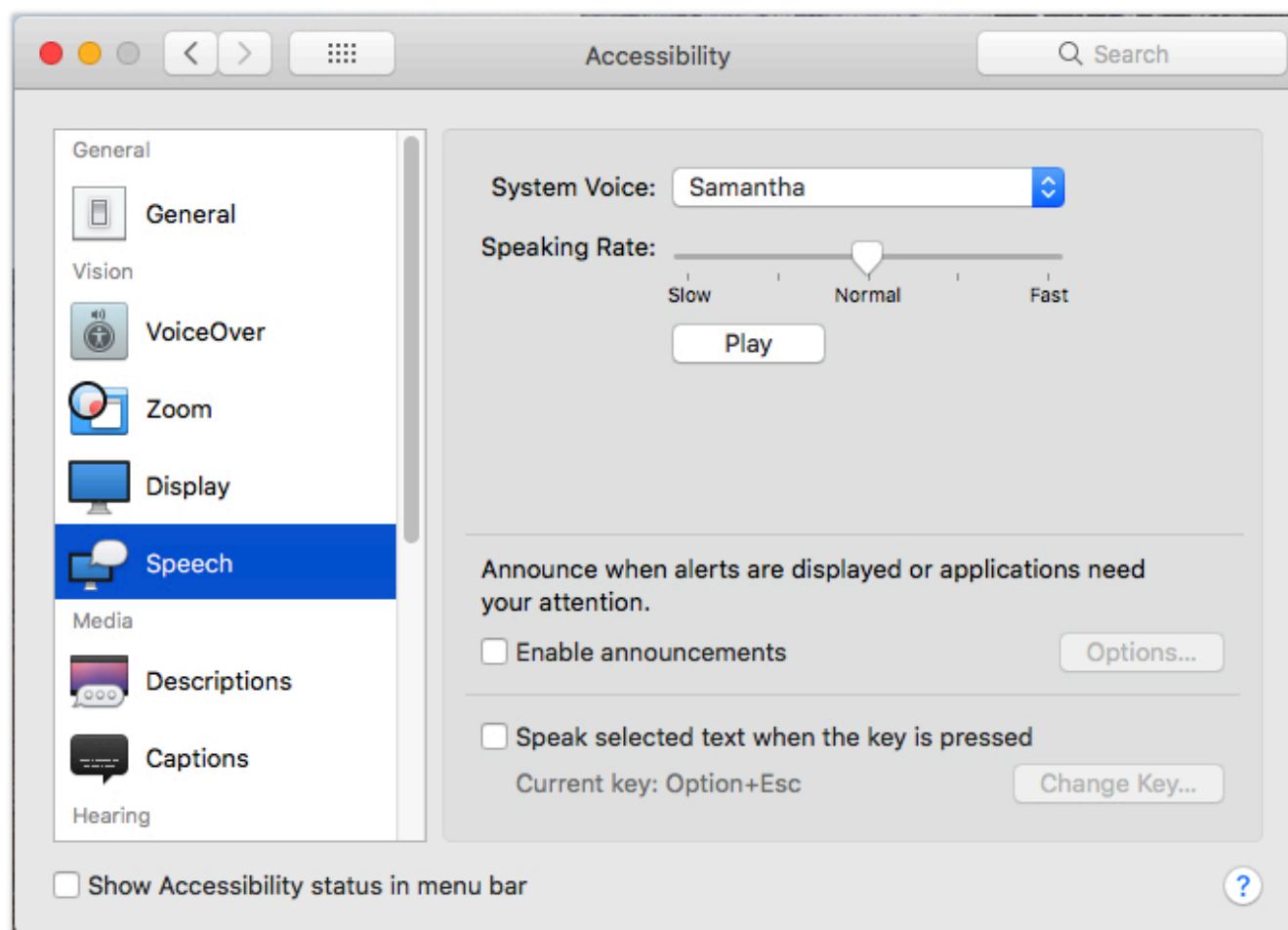
If you will get this error, you need setup English as user interface language (Windows display language) and English as your recognition language (language you speak with your device) and reload computer.



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

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

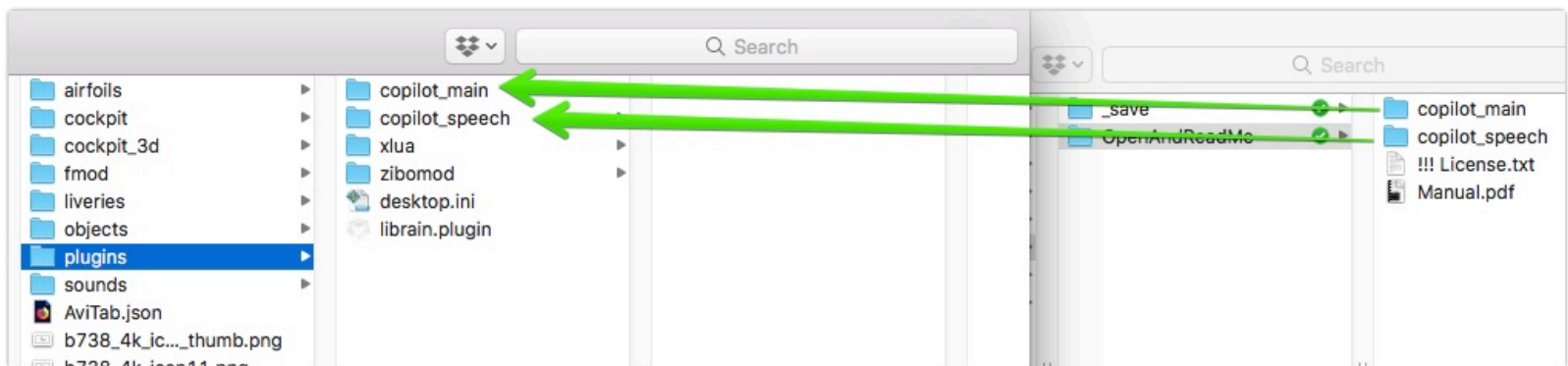
# SETUP SPEECH / RECOGNITION (MAC OS)





## INSTALL PLUGIN

1. Find your aircraft Zibo 737 plugins folder inside ../X-Plane\_12/Aircraft/Zibo\_737/plugins/ or path like this.
2. UnZip copilot distributive and Put "copilot\_main" and "copilot\_speech" folders from your ZIP pack to "../Zibo\_737/plugins/" folder



3. Run X-Plane and load Zibo\_737. Select "Setup" to complete installation. Obj file will be update.
4. Reload aircraft

## HARDWARE 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 click input - **You need** setup your Windows/MACOS speech settings only and skip voice recognition setup.

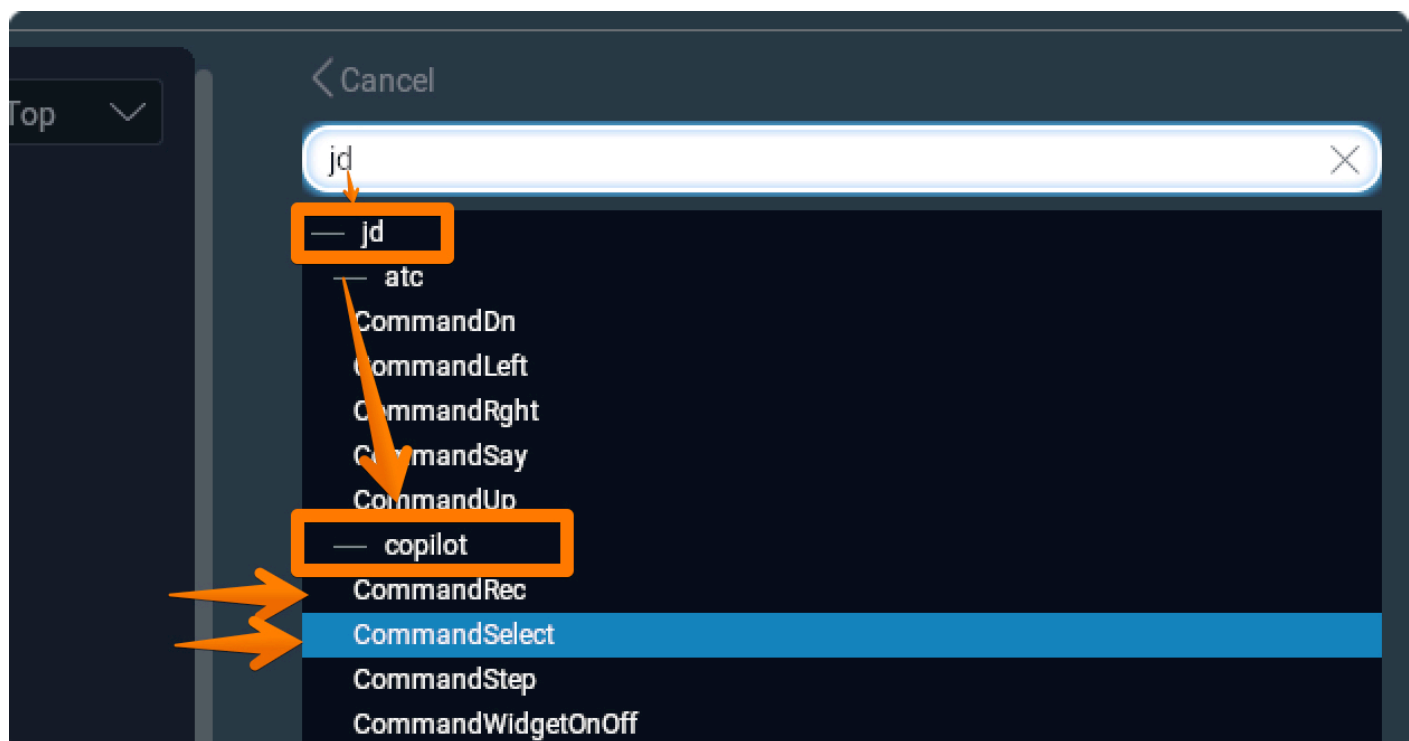
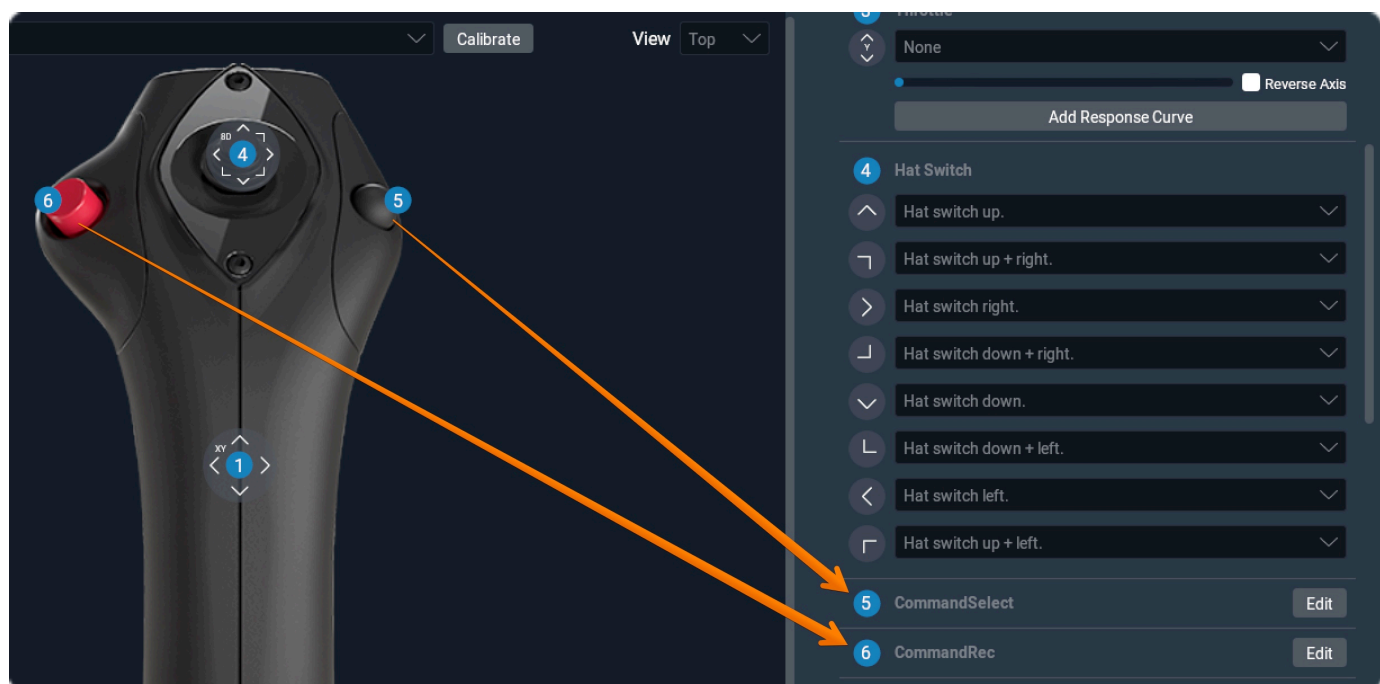
# SETUP

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**:

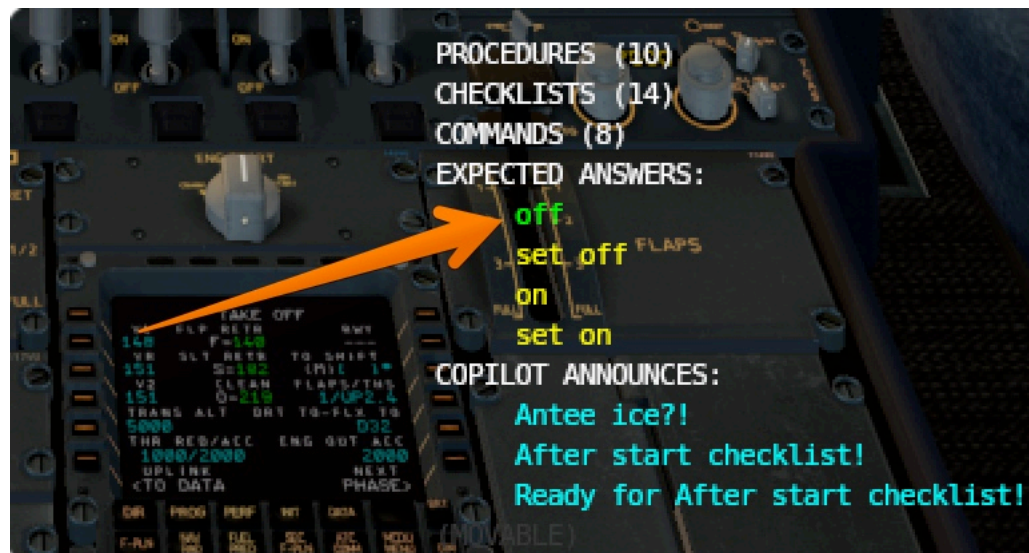
- one joystick button to jd/copilot/**CommandSelect** (for command selection)
- one joystick button to jd/copilot/**CommandRec** (for voice recognition)



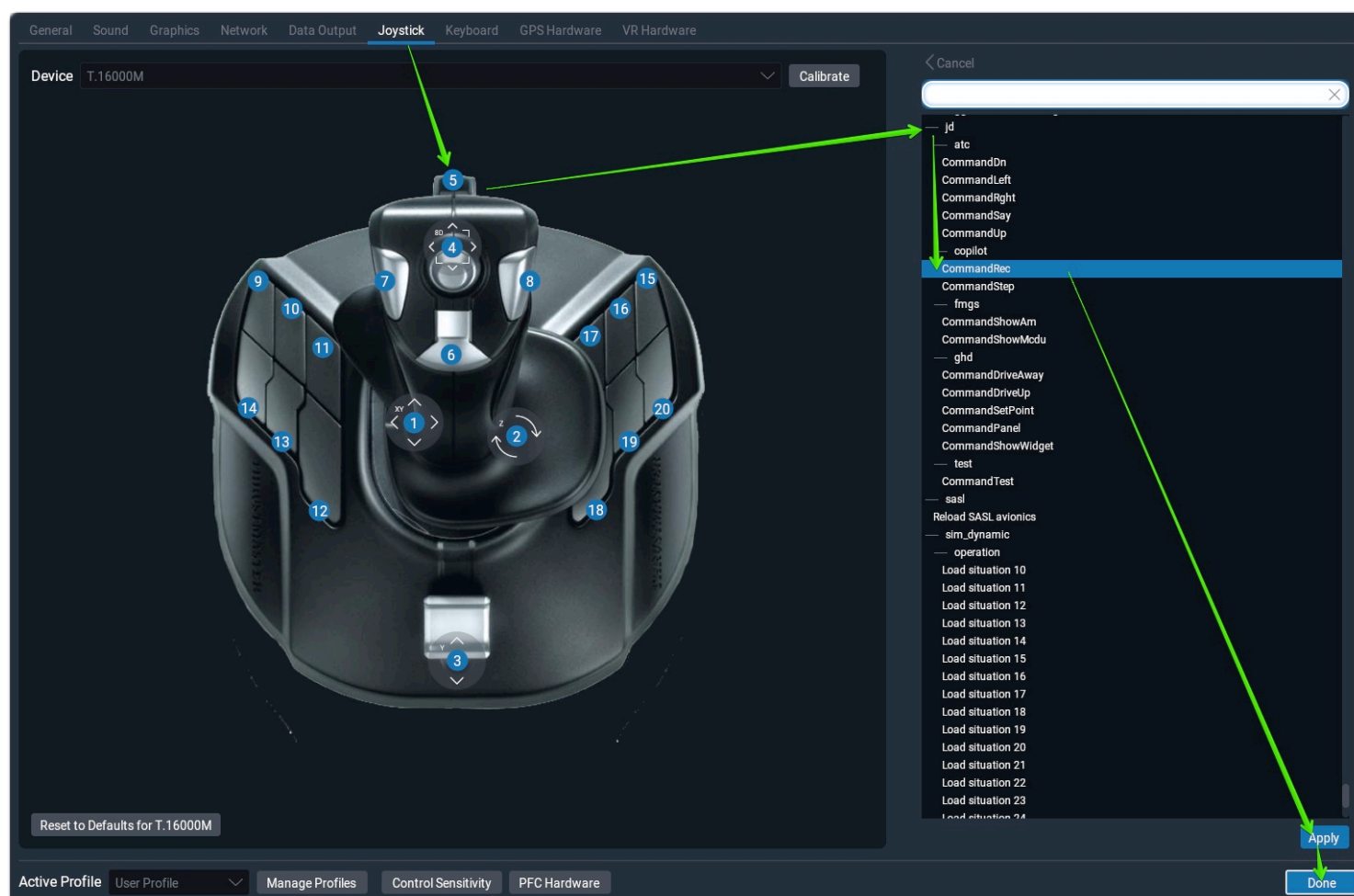
# HOW TO USE

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.



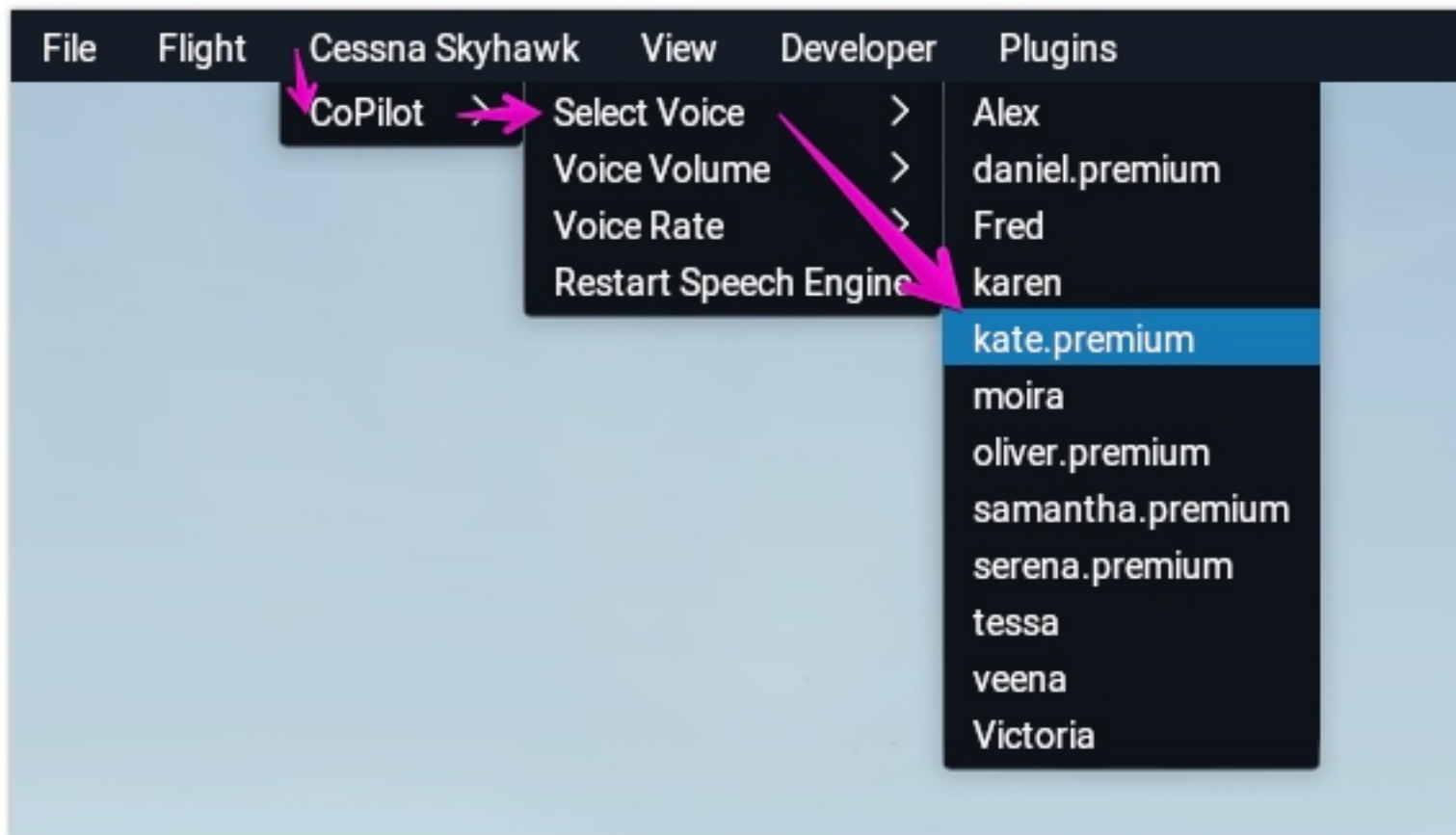
If you prefer voice control, you need setup special joystick (sure, keyboard may be used too) button to jd/CommandRec.



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:

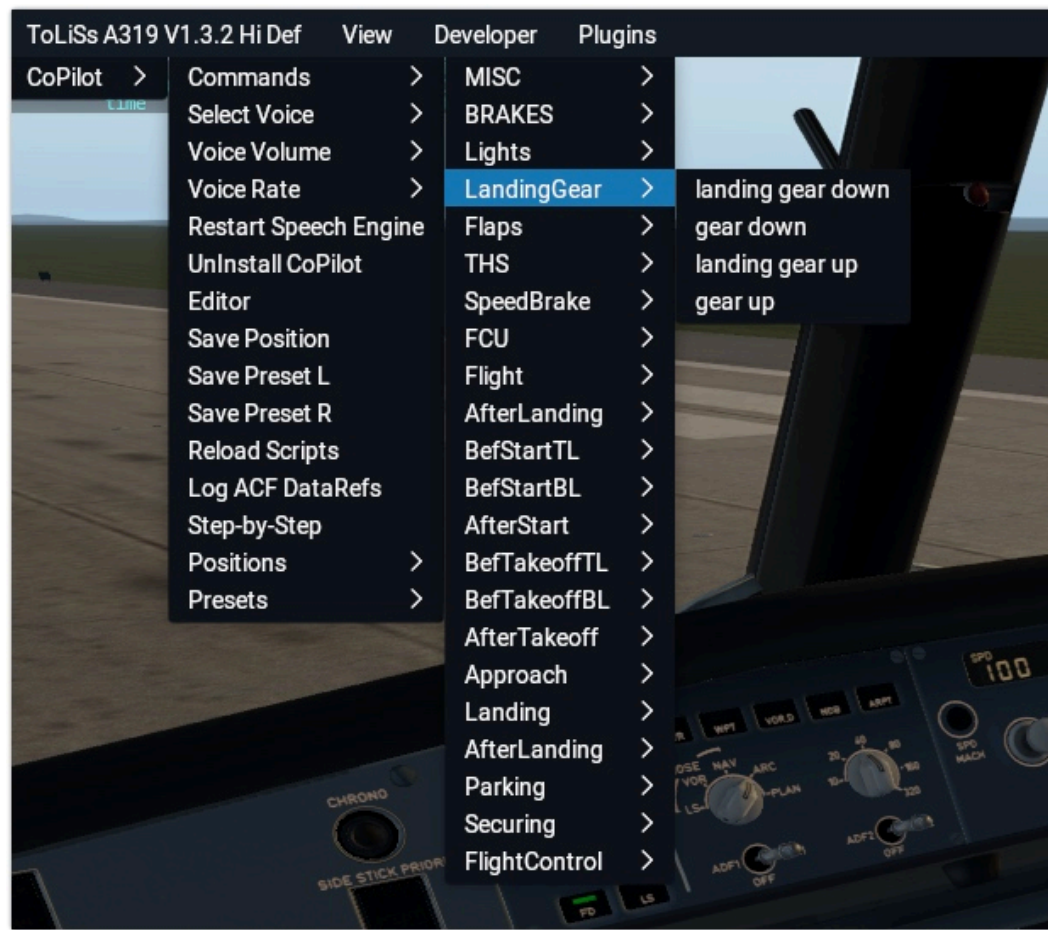


CoPilot widget have movable area ("MOVABLE" text in grey color) - You may use it to change widget position on the screen.



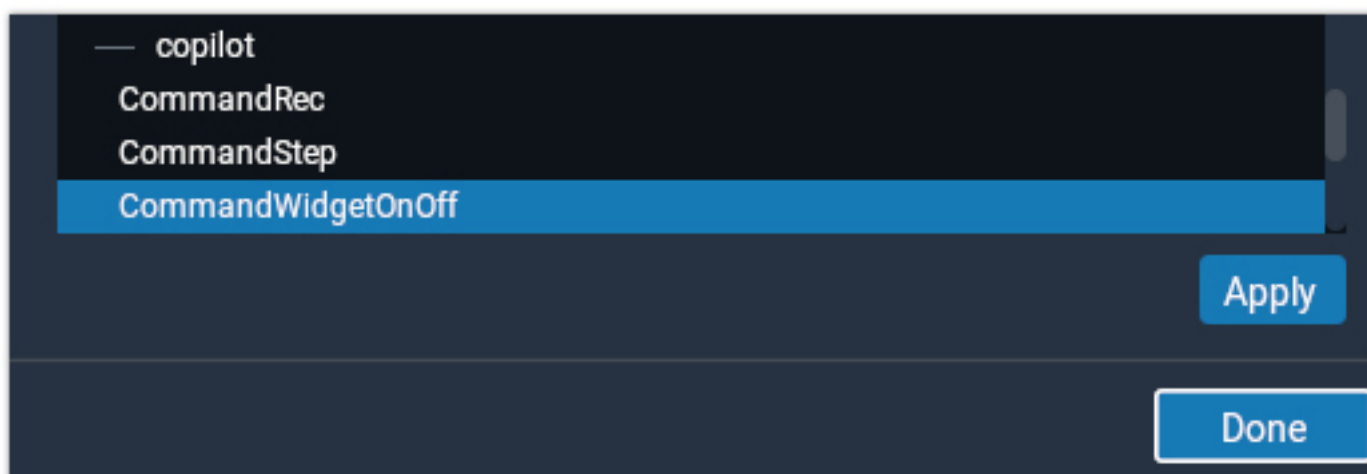
# HOW TO KNOW WHAT COMMANDS MAY BE USED

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

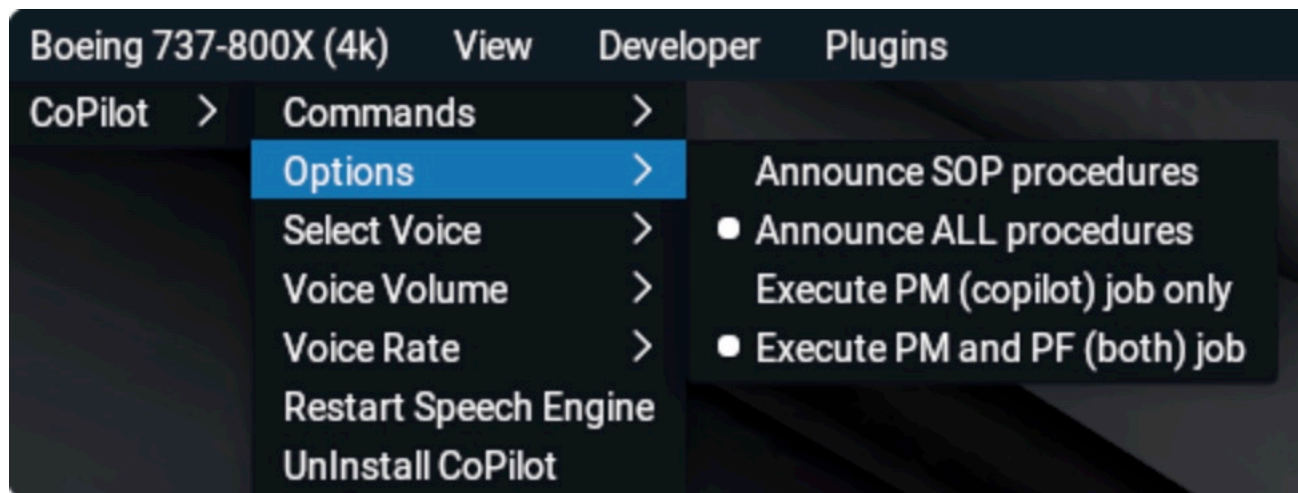
Widget may show you a shortlist of commands for actual flight phase. Sure, any command may be used in any time by menu or by voice input. You may show and hide widget using this command (assign it to your keyboard or joystick):



You may change widget position using "MOVABLE" zone:

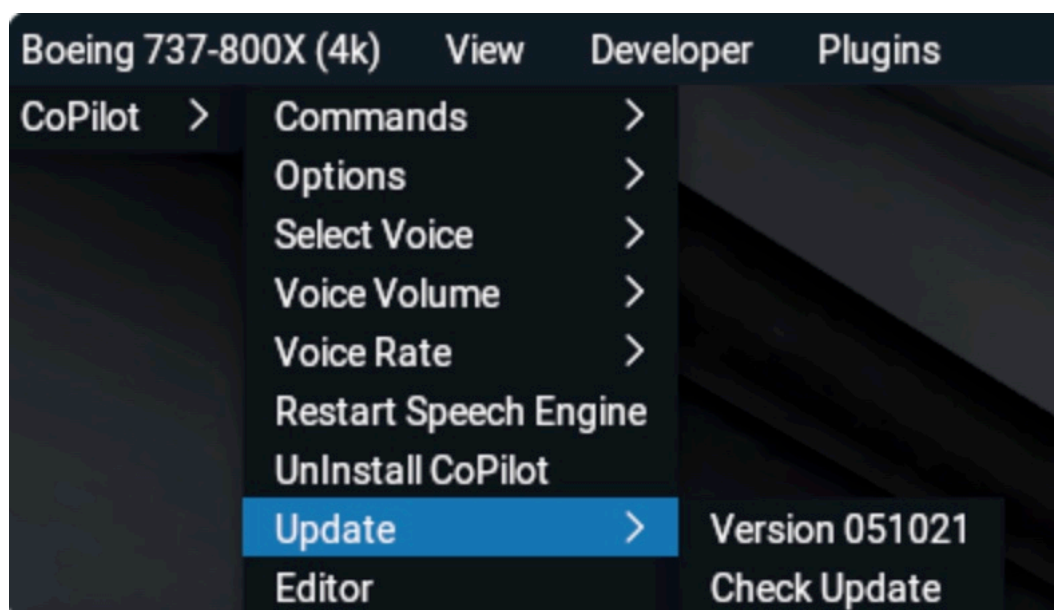
## REALISM OPTIONS

You may select some realism options and allow CoPilot to execute only First Officer job or to do some more pilot procedures:



## HOW TO CHECK VERSION AND UPDATE

Please use Menu->Update to know actual version and click on Check Update to redirect JARDesign Board, where you can check more fresh version:



## HOW TO UNINSTALL PLUGIN

1. Use Menu -> Uninstall CoPilot. Reload aircraft. CoPilot not work more.
2. Delete "copilot\_main" and "copilot\_speech" folders from "../Zibo\_737/plugins/" folder



**PRODUCT WEBPAGE:**

<http://www.jar design.org>

**SUPPORT**

<http://www.support.jar design.org>

# NORMAL CHECKLIST (EXAMPLE)

JD-CPL-737	NORMAL CHECKLIST	B737-800
<b>PREFLIGHT</b>		
Voice Recorder.....	ON CM1	
Oxygen.....	TESTED, 100% BOTH	
NAVIGATION &		
DISPLAY Switches...	NORMAL, AUTO CM2	
Window Heat.....	ON CM2	
Pressurization Mode Selector .....	AUTO CM2	
Flight Instruments... HDG __, Altimeter __	BOTH	
Parking Brake.....	SET, Pressure Normal CM1	
Engine Start Levers .....	CUTOFF CM1	
<b>BEFORE START</b>		
Papers .....	ABOARD CM1	
Flight Deck Door.....	Closed and Locked CM2	
Fuel.....	__ KGS CM1	
.....	PUMPS ON CM2	
Passenger Signs .....	ON CM2	
Windows .....	LOCKED BOTH	
MCP .....	V2 __, HDG __, ALT __ CM1	
Takeoff Speeds.....	V1 __, VR __, V2 __ BOTH	
CDU Preflight.....	COMPLETED BOTH	
Rudder and Aileron Trim ...	Free & Zero CM1	
Taxi and TO Briefing .....	COMPLETED CM1	
Anti Collision Light.....	ON CM2	
<b>BEFORE TAXI</b>		
Generators .....	ON CM2	
Probe Heat .....	ON CM2	
Anti-Ice .....	__ CM2	
Isolation Valve .....	AUTO CM2	
Engine Start Switches.....	CONT CM2	
Recall.....	CHECKED BOTH	
Autobrake.....	RTO CM2	
Engine Start Levers .....	IDLE DETENT CM1	
Flight Controls.....	CHECKED BOTH	
Flaps ....	__, GREEN LIGHT, DETENT BOTH	
Ground Equipment .....	CLEAR BOTH	
<b>BEFORE TAKEOFF</b>		
Flaps ....	__, GREEN LIGHT, DETENT BOTH	
Stabilizer Trim.....	__ UNITS CM2	
Transponder.....	TA/RA CM2	
<b>AFTER TAKEOFF</b>		
Engine Bleeds .....	ON PM	
Packs.....	AUTO PM	
Landing Gear .....	UP and OFF PM	
Flaps .....	UP, NO LIGHTS, DETENT PM	
Altimeters .....	STD, X-CHECKED BOTH	
<b>DESCENT</b>		
Pressurization.....	LAND ALT __ PF	
Recall.....	CHECKED PF	
Autobrake .....	__ PF	
Landing Data.. Vref __, MINIMUMS __	BOTH	
Approach Briefing .....	COMPLETED PF	
<b>APPROACH</b>		
Altimeters..	__ hPa(In), X-CHECKED BOTH	
<b>LANDING</b>		
Engine Start Switches.....	CONT PF	
Speed Brake.....	ARMED PF	
Landing Gear .....	DOWN PF	
Flaps .....	__, GREEN LIGHT PF	
<b>SHUTDOWN</b>		
Fuel Pumps .....	As needed CM2	
Probe Heat .....	OFF CM2	
Hydraulic Panel .....	SET CM2	
Flaps .....	UP CM2	
Parking Brake .....	__ CM1	
Engine Start Levers.....	CUTOFF CM1	
Weather Radar .....	OFF BOTH	
IRS Mode Selectors .....	OFF CM2	
<b>SECURE</b>		
Fuel Pumps .....	As required CM2	
Emergency Exit Lights .....	OFF CM2	
Window Heat.....	OFF CM2	
Packs.....	OFF CM2	
APU Bleed.....	OFF CM2	
Lights.....	OFF CM2	
APU / EXT Power .....	As required CM2	
Battery Switch .....	As required CM2	