

# **FCS EVOLVE**

## **Rear Seat Entertainment**

### **User Manual**



© 2021 VOXXAutomotive Corporation. All rights reserved.  
This manual, or any portion thereof, may not be reproduced without the express written permission of VOXXAutomotive Corporation.  
Design and specifications subject to change without notice.

## REAR SEAT ENTERTAINMENT SYSTEM

### Contents

Important Notice .....	3
Safety Precaution .....	3
Caution .....	3
Remote Control Operation .....	7
General Operating Instructions .....	11
Global Remote /Touch .....	13
Boot Screen .....	14
Boot Screen .....	15
Remote Pairing .....	16
Continue /Demo .....	17
Connecting toNetwork .....	18
Software Update .....	19
Account SignIn .....	20
Account SignIn .....	21
Account SignIn .....	22
Account SignIn .....	23
Account SignIn .....	24
PCON .....	25
Prime Up-sell .....	26
Content Wizard .....	27
Content Wizard .....	28
Home Launcher .....	29
Overview: Screen2 .....	30
Boot Hold .....	31
Remote Pairing: Screen2 .....	32
Settings Remote/Touch .....	33
Settings Remote/Touch .....	34
Settings Remote/Touch .....	35
Troubleshooting .....	27
Compliance Information .....	29

PAGE INTENTIONALLY LEFT BLANK

## Important Notice

It is unlawful in most jurisdictions for a person to drive a motor vehicle which is equipped with a television viewer or screen that is located in the motor vehicle at any point forward of the back of the driver's seat, or that is visible, directly or indirectly, to the driver while operating the vehicle. The monitors should never be installed where they will be visible, directly or indirectly, by the operator of the motor vehicle.

## Safety Precaution

For safety reasons, do not allow children to unfasten safety belts to make any adjustments to the system. System adjustments can be accomplished using the remote control unit, while safety belts remain fastened. Enjoy your entertainment system but remember that safety of all passengers remains the number one priority. Direct eye contact from protruding HDMI cables may result in injury during an accident. To prevent eye injury, disconnect all HDMI cables when not in use.

## Warnings

- Do not use any harsh solvents or chemicals when cleaning the unit.
- Do not use any abrasive cleaners that may scratch the screen. Use only a lightly dampened lint free cloth to wipe the screen if it is dirty.
- Do not put pressure on the screen.

## Product Features

### Display

- 720p screen resolution
- Integrated Touch screen controller
- Integrated HDMI media port
- Integrated USB Type C charging and data
- Integrated SD Card Port
- Bluetooth Capable
- WiFi 2.5GHz/5GHz
- Integrated stereo headphone jack
- Operating Input Voltage
  - Low: 9VDC
  - Nominal: 12VDC
  - High: 16 VDC
- Operating Temperature
  - Low: -20C
  - Nominal: 25C
  - High: +70C

## Caution

Be sure to run the vehicle engine while using the system. Using this system without running the engine can result in battery drain. To avoid the risk of battery drain, please remember to turn off the system when the vehicle is not in use. Do not touch the inner pins of the jacks on the front panel. Electrostatic discharge may cause permanent damage to the system.

## Accessories

### Remote



Both of your EVOLVE screens come with their own Remote. The remote is designed to help you make the most of EVOLVE. Use the arrow buttons to click through the options on the screen. Press HOME to return to the source menu or MUTE to silence the audio. You'll find standard media controls like PLAY, FAST-FORWARD and REWIND.. To pair a remote, tap SETTINGS on the touchscreen, tap REMOTE, then PAIR A REMOTE CONTROL and follow the onscreen pairing instructions. The system will let you know when pairing is complete, or if you need to run the procedure again. If the remote ever stops working, try pairing it again.

# Display Port Description



Port	Name	DESCRIPTION
1	Audio Out	3.5mm Audio Jack Output
2	USB Type C	USB Type-C Port (15W)
3	HDMI In	HDMI Input (Supports up to 1080p)
4	SD Card	SD Card Input

## Remote Control Operation

### Installing or Replacing the Battery

1. On the rear of the remote control, remove the battery cover.
2. Install two “AAA” batteries as shown.






The remote control is only designed to operate this device. It is not a universal remote control and will not operate any other device.







### Warning/Caution on using batteries

- Always ensure that the battery is inserted with the positive and negative terminals in the correct direction as shown in the battery compartment.
- If the remote control fails to function, replace the battery before seeking repairs at the dealer.
- Keep batteries out of the reach of children. Should the battery be swallowed, immediately consult a doctor. When disposing of used batteries, please comply with governmental regulations or environmental public institution rules that apply in your country/area.
- Remove the battery if the remote control is not used for a month or longer to avoid corrosion and damage to the remote control.








## Remote Control Operation (continued)



Icon (Sample only)	Name/Category	Description
	Power	The remote has a dedicated button that will toggle power on or off of the TV. The power button when pressed will send a power toggle IR command, however the TV must accept "power on" and "power off" commands independently (for the home, DPAD select, and universal remote use cases)
	Volume Keys	The remote has a method by which it can control the up/down volume output of the TV. Pressing and holding down the volume up or down button will continuously send the volume command for the respective up/down command. The number of volume steps are software configurable so that adequate testing can determine the appropriate level of steps
	Mute Button	The remote has a mute button that toggles between mute/unmute states.

	Home	The remote has a HOME button on the front face of the device. When the user presses the HOME key, the remote will also send a device "power on" command via IR to turn on the TV (nothing will happen to the TV if it is already on), as well as the HOME command. Long press on HOME will activate the HUD (Quick Settings Overlay).
	4 Way Navigation	The remote uses a D-Pad to navigate (up, down, left, right)
	Select	A select button that allows to user to take action on the item that has focus. When the user presses the select key, the remote will send a device "power on" command via IR to turn on the TV if it's in an off state. The remote will also send a Select command.
	Playback Control	The remote has a set of dedicated buttons or a set of interactions that enable playback control while audio or video is in use. These controls will include Play/Pause, Fast Forward (Long Press) Or Skip Forward (Press) And Rewind (Long Press) And Skip Back (Short Press). Note, as on Fire TV today, each app can interpret these commands differently.
	Back	The remote includes a "BACK" button (standard android back command)
	Menu	A MENU button activates commands when prompted in the user interface
Icon (Sample only)	Name/Category	Description
	Guide	A Guide button pulls up the universal program guide.



	Recent	Recent button will pull up the “Recent” row screen that will allow user to switch between recently watched content.
	Channel Rocker	Channel UP/DOWN button allows user to go to the next live TV channel.
	Settings	Settings button will pull up a side panel overlay to provide quick access to Picture and Sound settings.
	Prime Video	All FTVE remotes will have a direct button to launch Prime Video. Amazon will provide the graphics for this button and implement SW behavior.
	Streaming Service 1	A direct shortcut button to Streaming Service 1
	Streaming Service 2	A direct shortcut button to Streaming Service 2
	Offline Content	A direct shortcut button to offline content

Screen 1

01. Cobranded Animated Boot

02. Remote pairing : Screen 1

- 03. Continue or Video Demo
- 04. Connecting to Car Network
- 05. Software Updates



06. Account Sign-in / Sign Up sell

07. PCON

08. PrimeUp-

08. Content Wizard

10. Loading Home



06.



Screen 2 Trigger

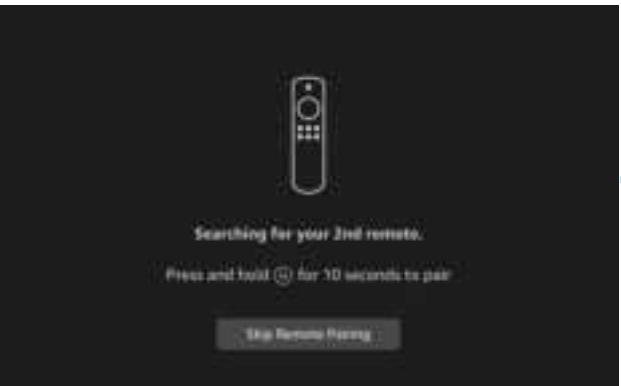
01. Cobranded Animated



02. Hold Screen for Screen



03. Screen 2 remote



Refer to full screen 2 flow.



0.1

Screen using remote...

No HUD Peek is shown when the customer is interacting with remote.

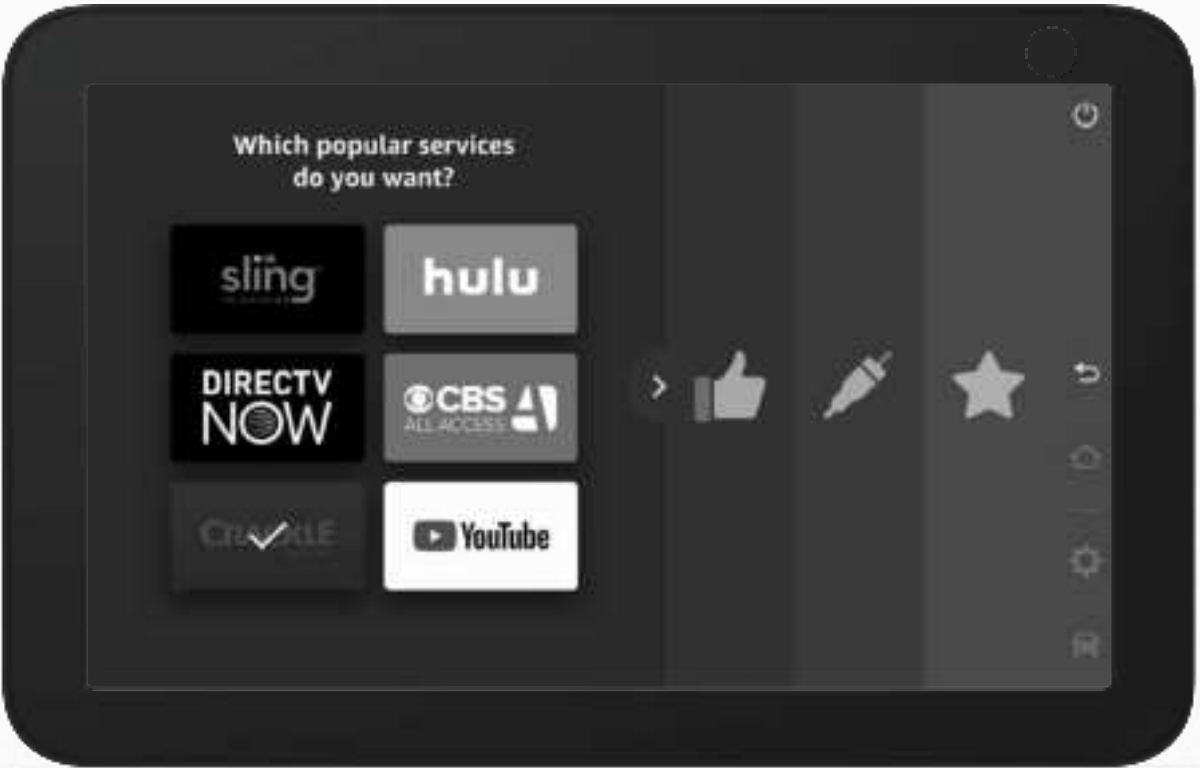
Remote screens will show focus states of buttons, touch mode will remove focus and follow global touch / remote behavior



0.2

Screen is touched (back disabled)...

HUD Peek appears on screen when the customer touches the screen. It remains on screen while touching and will dismiss after 3 seconds (configurable) of no touch interaction. The only available buttons are 'power' (Screen off audio off) and 'back' all other buttons will be disabled state. Back will be disabled if not available in a screen... follows same remote back behavior.



0.3

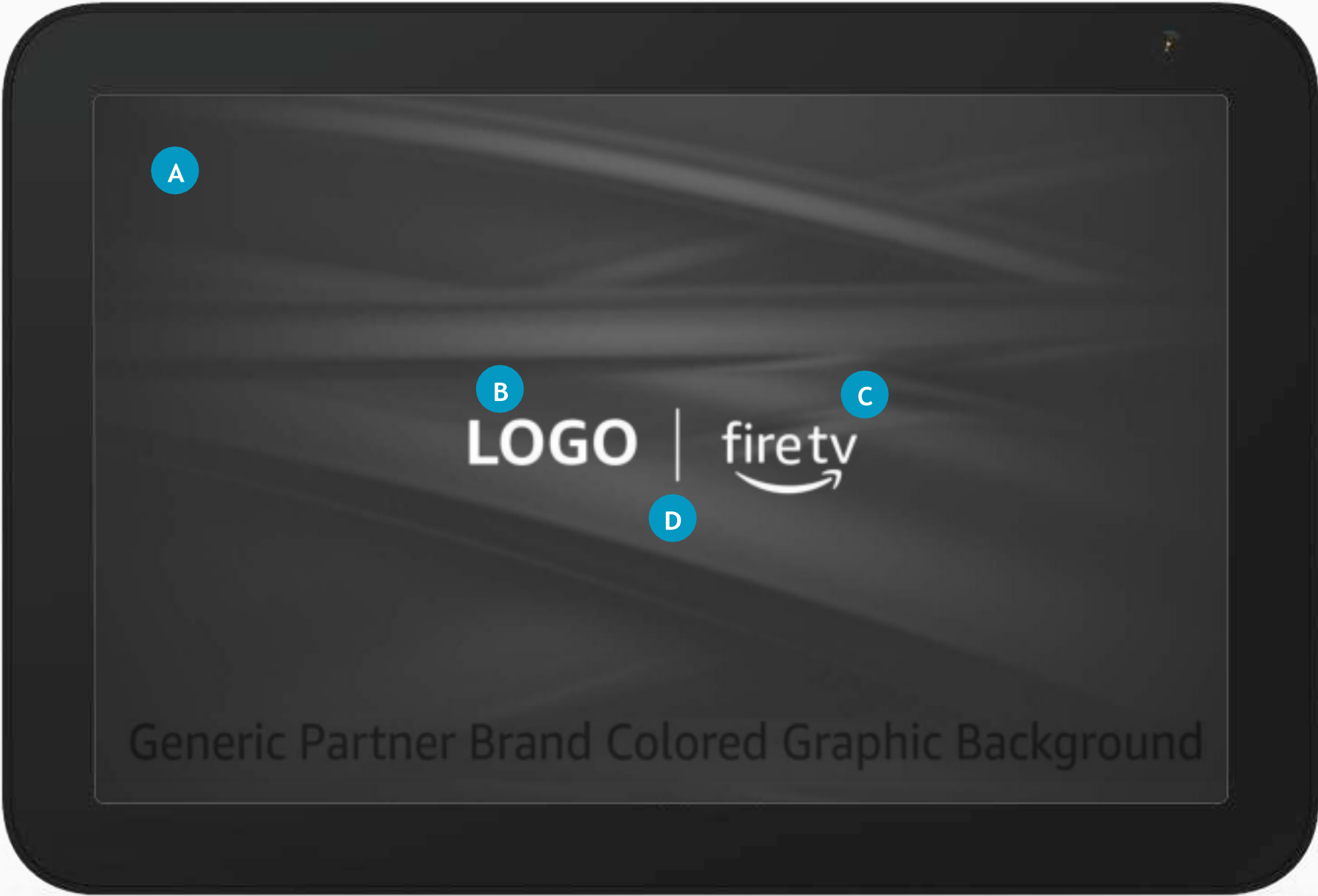
Screen is touched (back enabled)...

Showing the soft remote touch affordance the same way in OOB as the rest of the experience will help to build muscle memory and expectations throughout the experience. This does not actually have to leverage the same tech as long as it has the same appearance and behavior.

Boot Screen



Cobranded Animated Boot Screen



1.1

A

**Partner background image** (unique to car brand make and model)

B

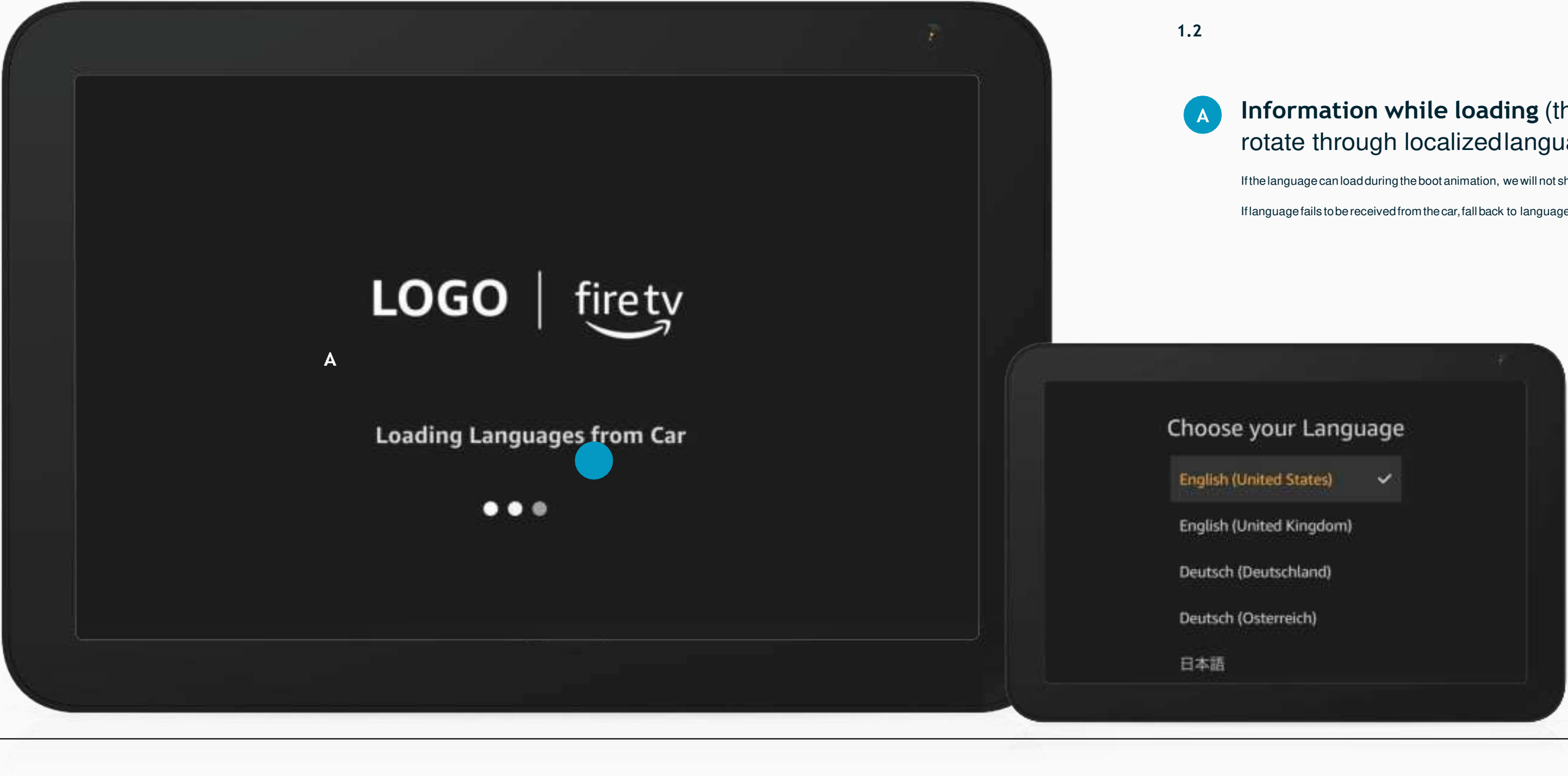
**Partner logo** (white logo unique to car brand make and model highest level least number of brands as these will be stored and need to be available before connection)

C

**Fire TV Logo** white logo no ‘edition’

D

**Animation** (Logos animate in together to the line and then a shine goes across both logos as sign of life while booting)



1.2

**A** Information while loading (this text will need to rotate through localized languages)

If the language can load during the boot animation, we will not show this screen.

If language fails to be received from the car, fall back to language selection screen.



## 2.1 PAIR 1st REMOTE

## Finish boot...

Pair remote 1 only: The device will be listening for pairing from the start, but the remote will not go into pairing mode until the customer explicitly acts on the button long presshome.

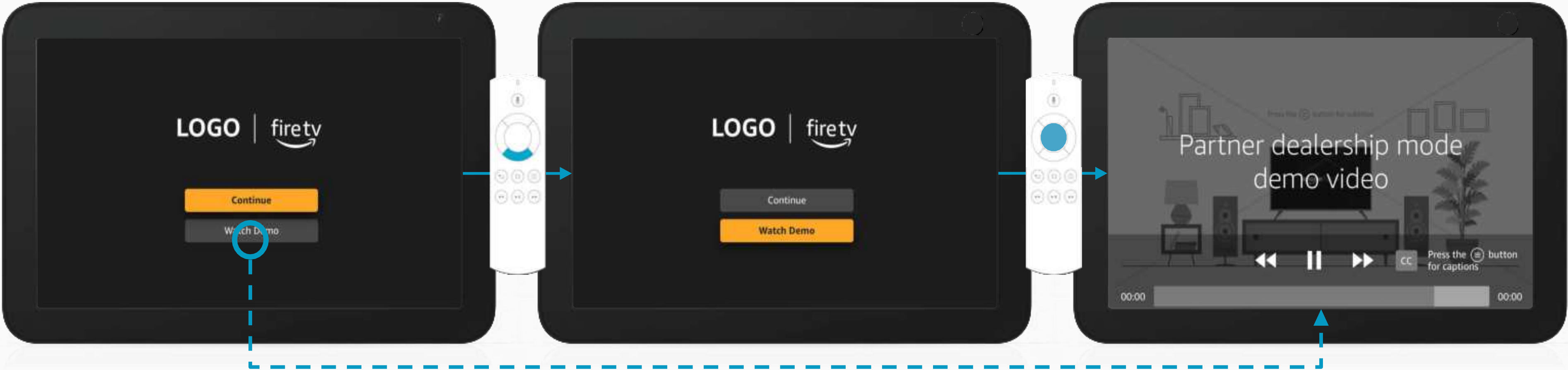
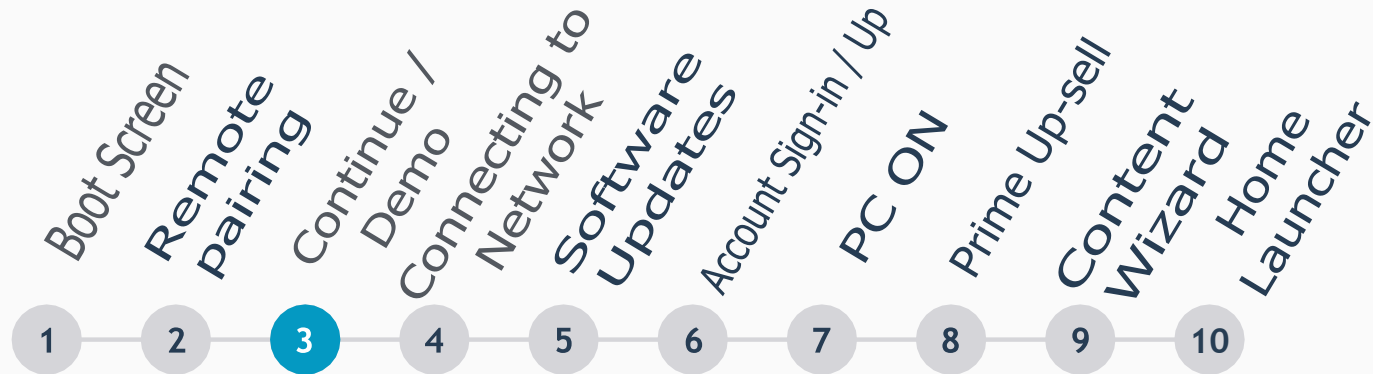
If skipped the customer will not be able to use the remote in OOBE, they will need to use touch and will need to pair after through settings



## 2.2 REMOTE CAN'T CONNECT

Remote pairing failed...

### Option for customer to troubleshoot remote or continue without pairing



### 3.1 A CONTINUE / WATCH DEMO: CONTINUE FOCUS

Complete remote pairing or skip...

Option for customer to continue on with OOB or watch videodemo

- Continue is in focus by default
- Cobranded screen with partner logo and Fire TV

### 3.2 A CONTINUE / WATCH DEMO: WATCH DEMO FOCUS

D-Pads down...

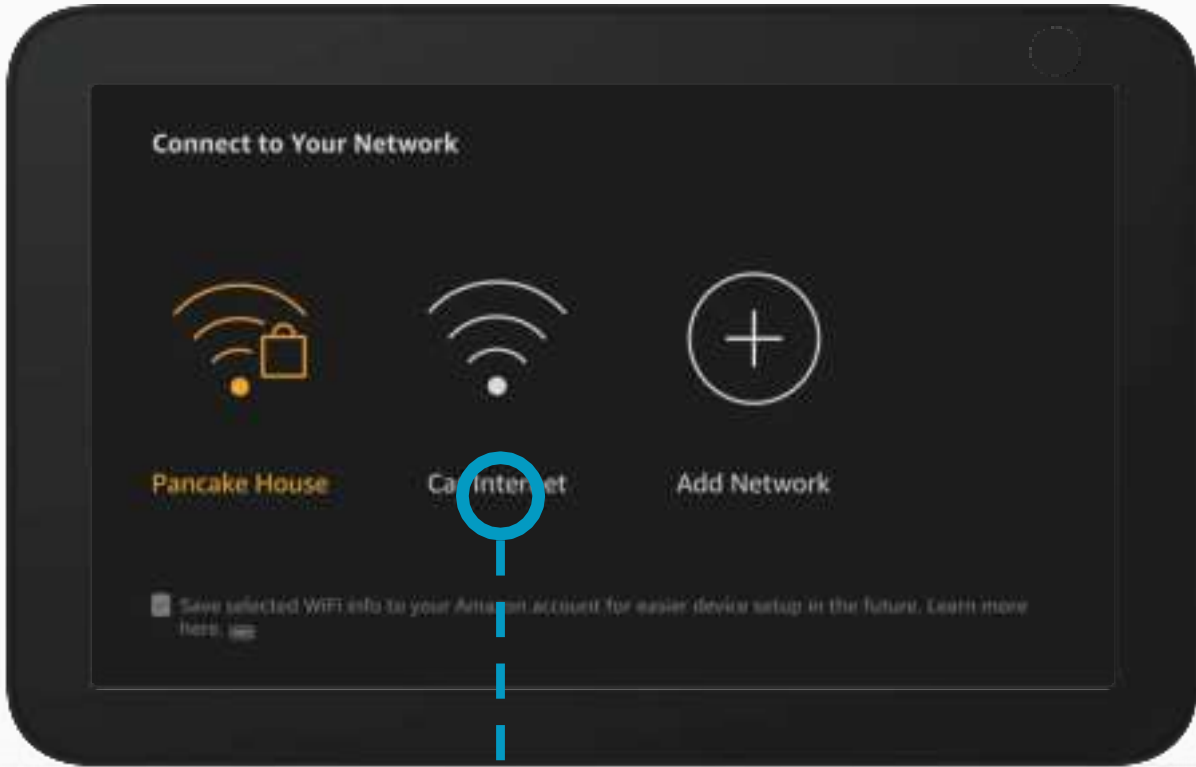
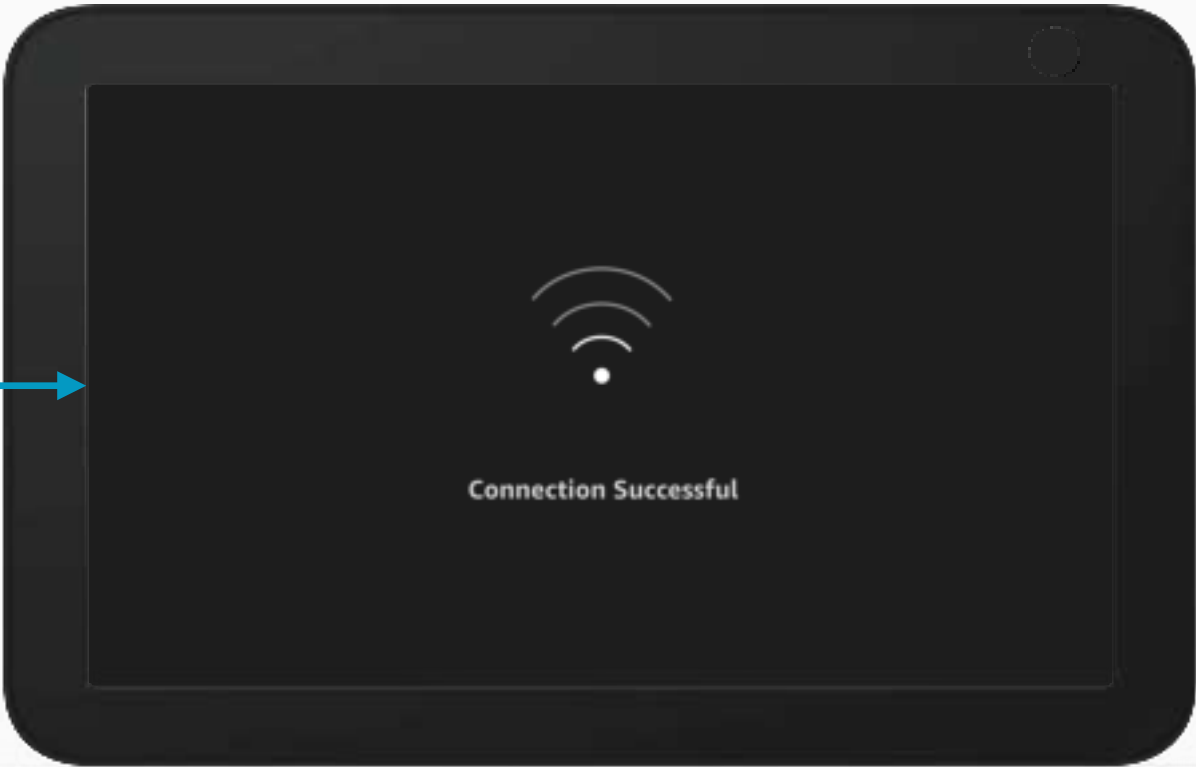
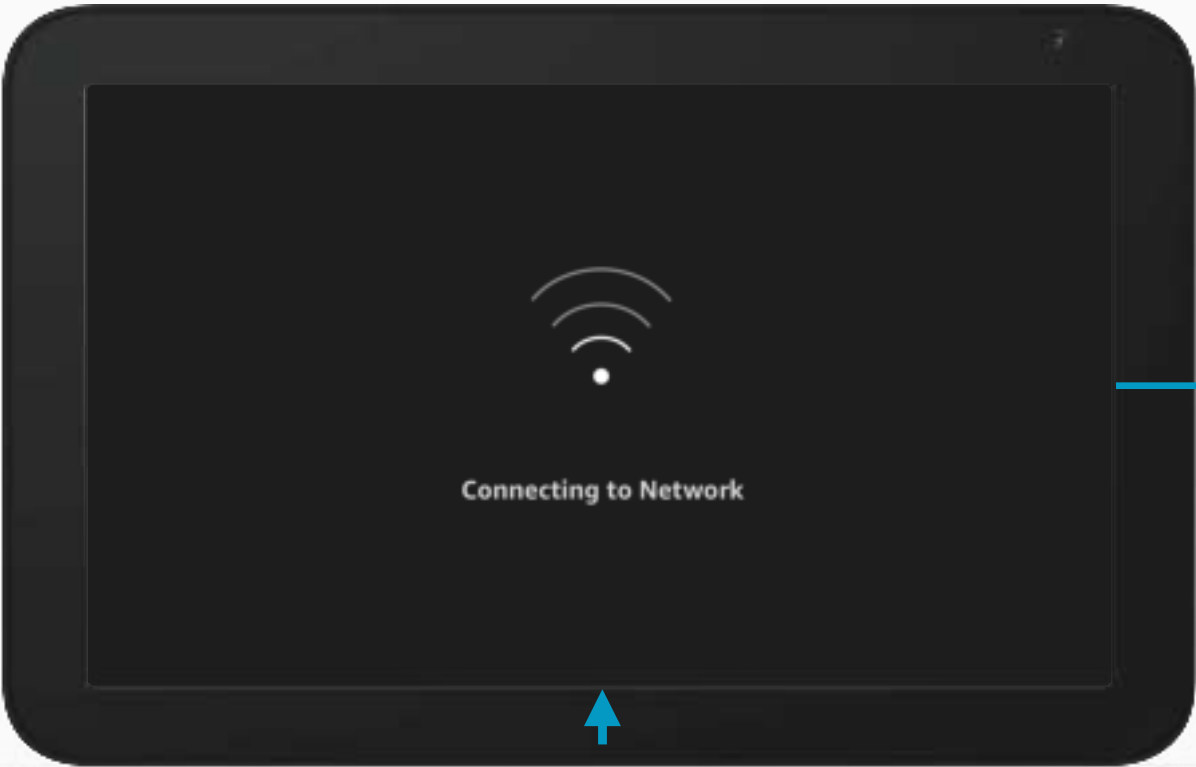
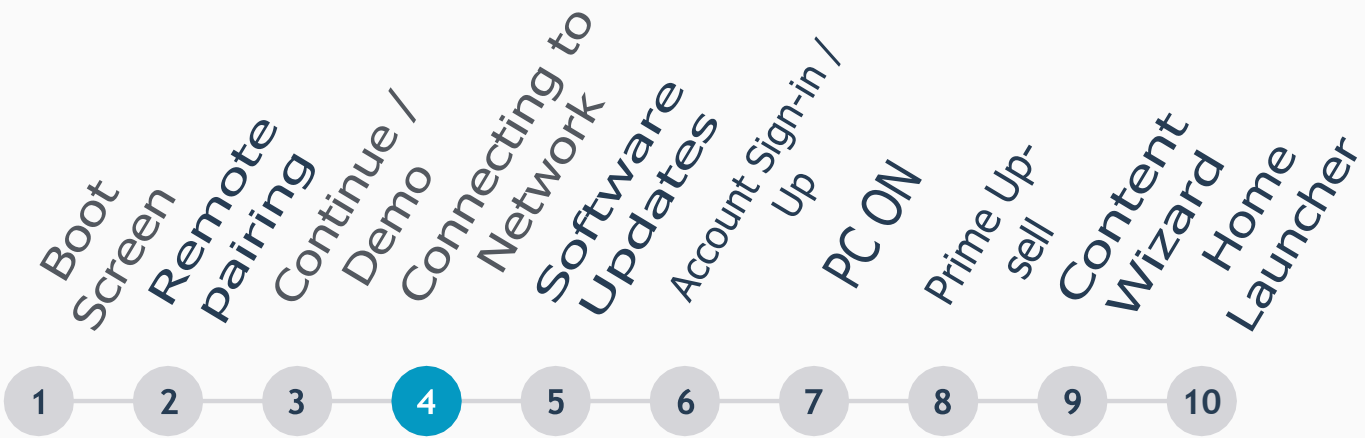
### 3.3 A DEMO VIDEO

Select watch demo touch or remote...

Demo video can be created by the OEM, or Amazon GTM.

- The video will be capable of being specific to the car model and manufacturer.
- Uses media player play pause and duration
- Video is available offline before connection to car wifi





4.1 CONNECTING TO CAR NETWORK

4.2 CONNECTION SUCCESSFUL

4.3 NETWORK SELECTION

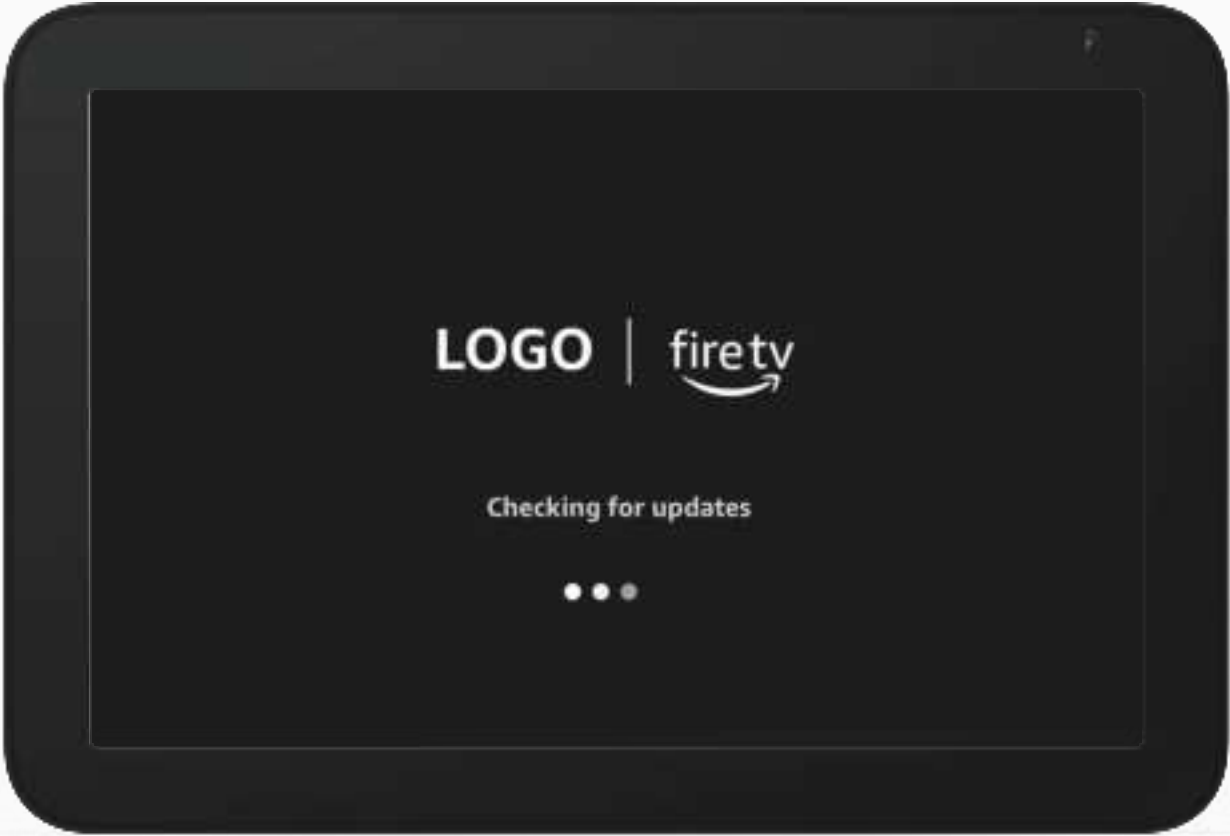
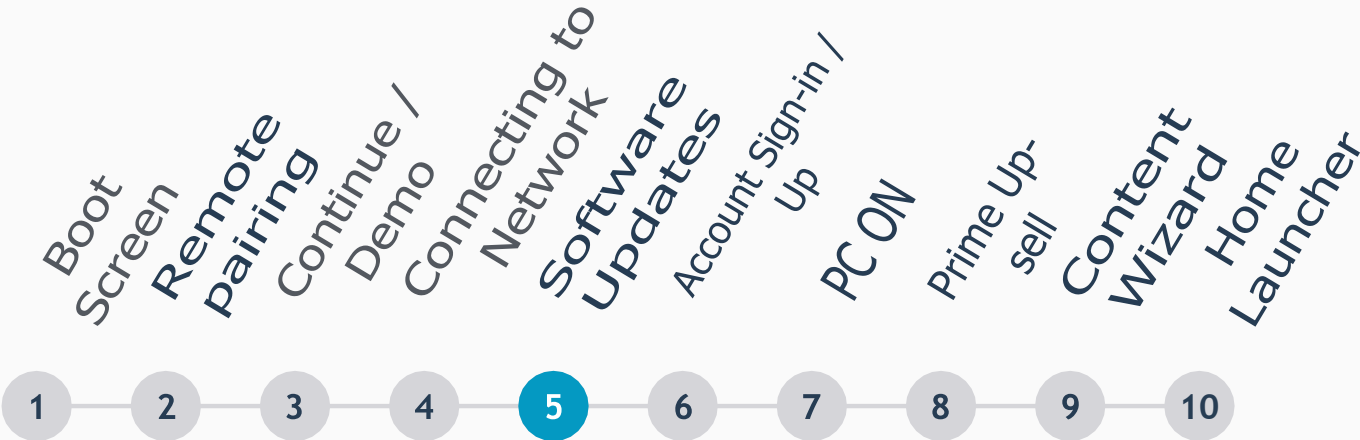
Continue from continue/demo screen...

Connect successfully to carnetwork...

Auto connection to car network failed...

Auto connection to car wifi

Customer can select a brought in hotspot if the car wifi fails to connect.



5.1 CHECKING FOR UPDATES

Complete network connection...

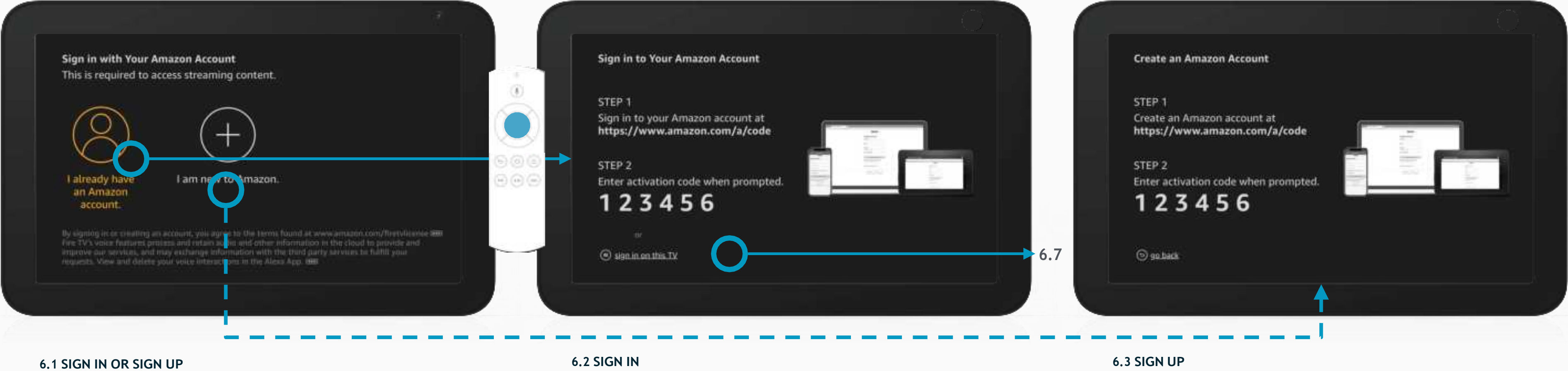
Checking if there are any new updates.



5.2 INSTALLING UPDATES

Update found...

During the day 0 update power needs to remain on, customer should not turn off vehicle.



After update is complete...

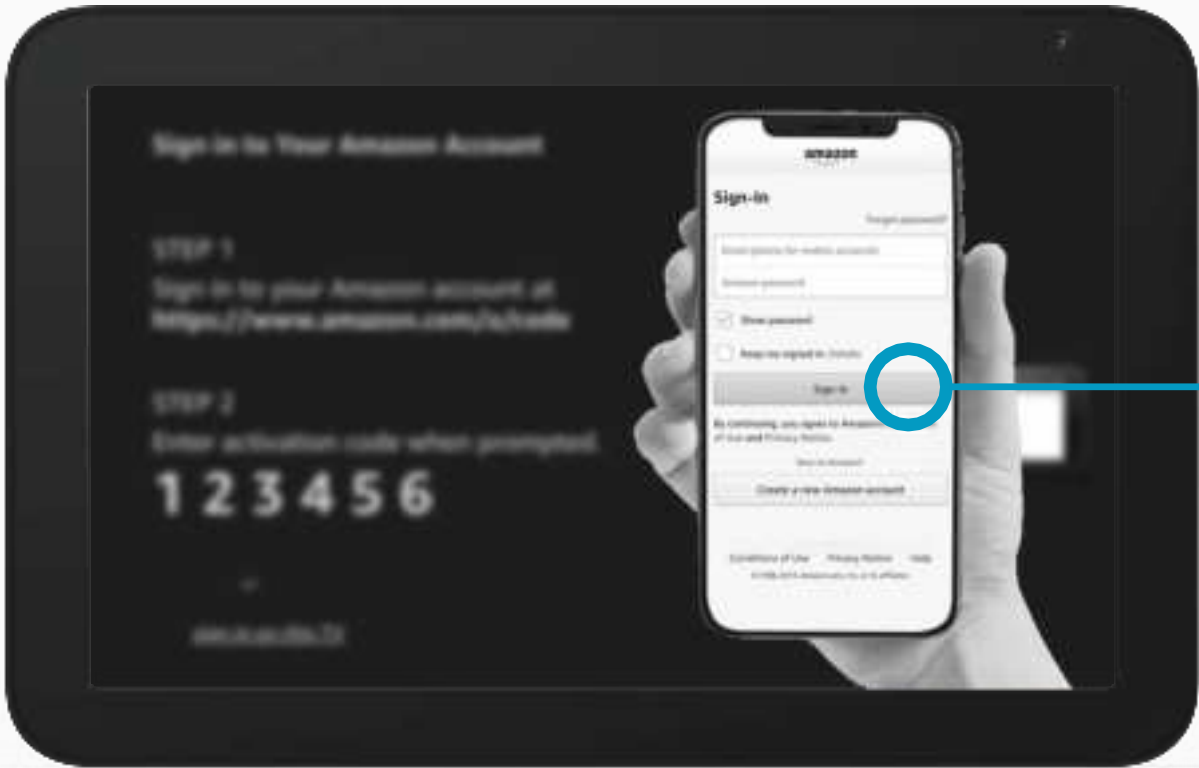
This screen also has TOS

Select already have anaccount...

The customer can sign in on mobile or with the keyboard on the screen via touch or remote

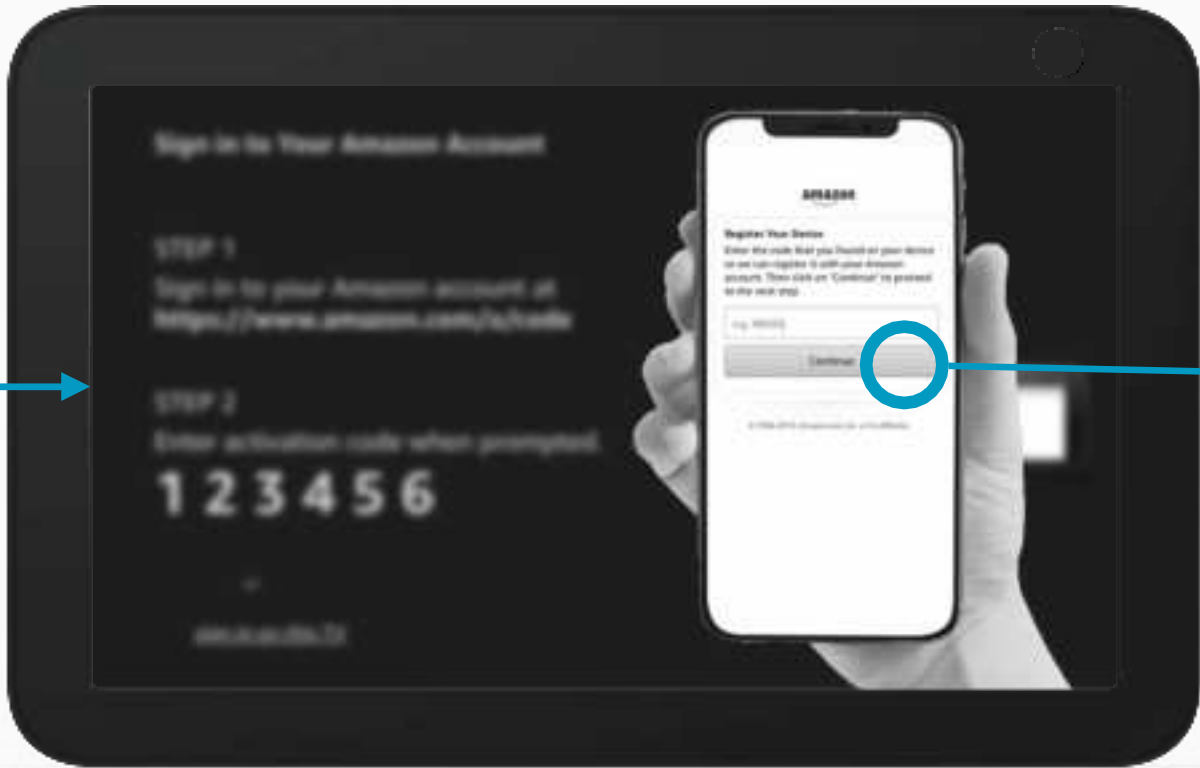
SelectnewtoAmazon...

To create an account the customer will use mobile only



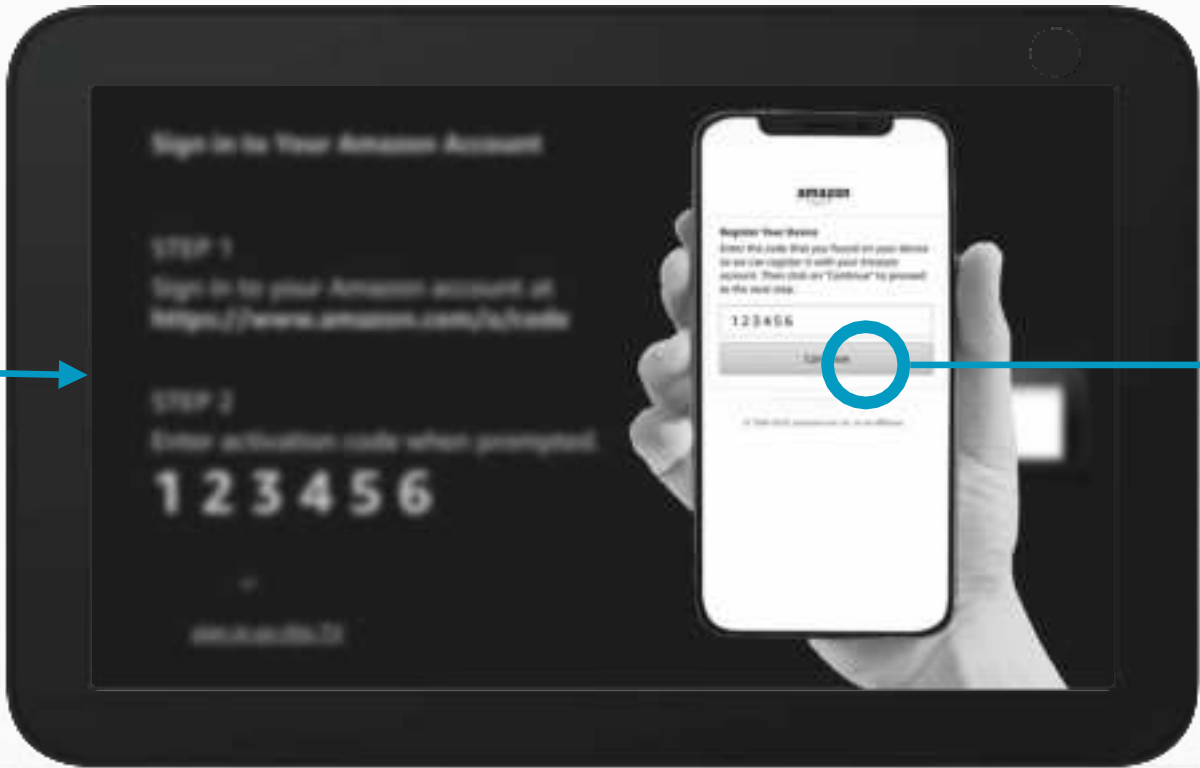
6.4 SIGN IN MOBILE ENTER EMAIL & PASSWORD

Sign in via mobile going to URL...



6.5 ENTER ACTIVATION CODE

Add email address & password...



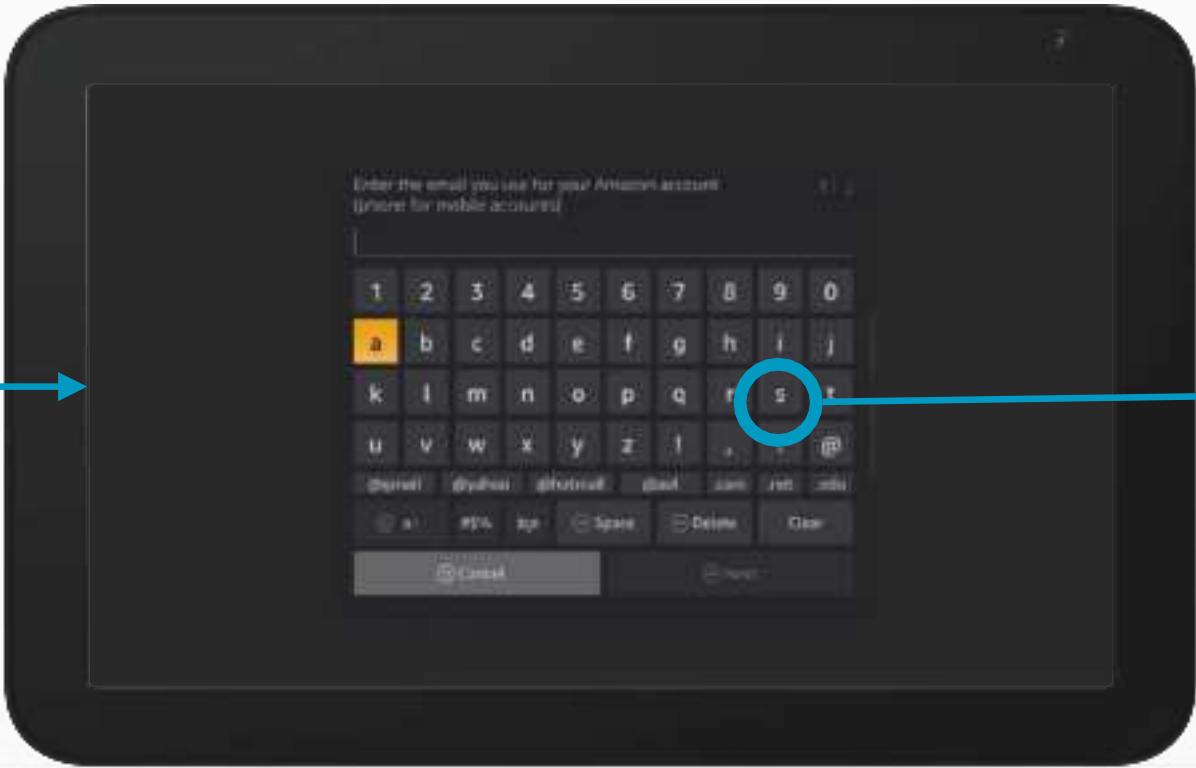
6.6 ACTIVATION CODE ENTERED

Enter activation code...

Authenticates car to amazon account and will sign in to all screens

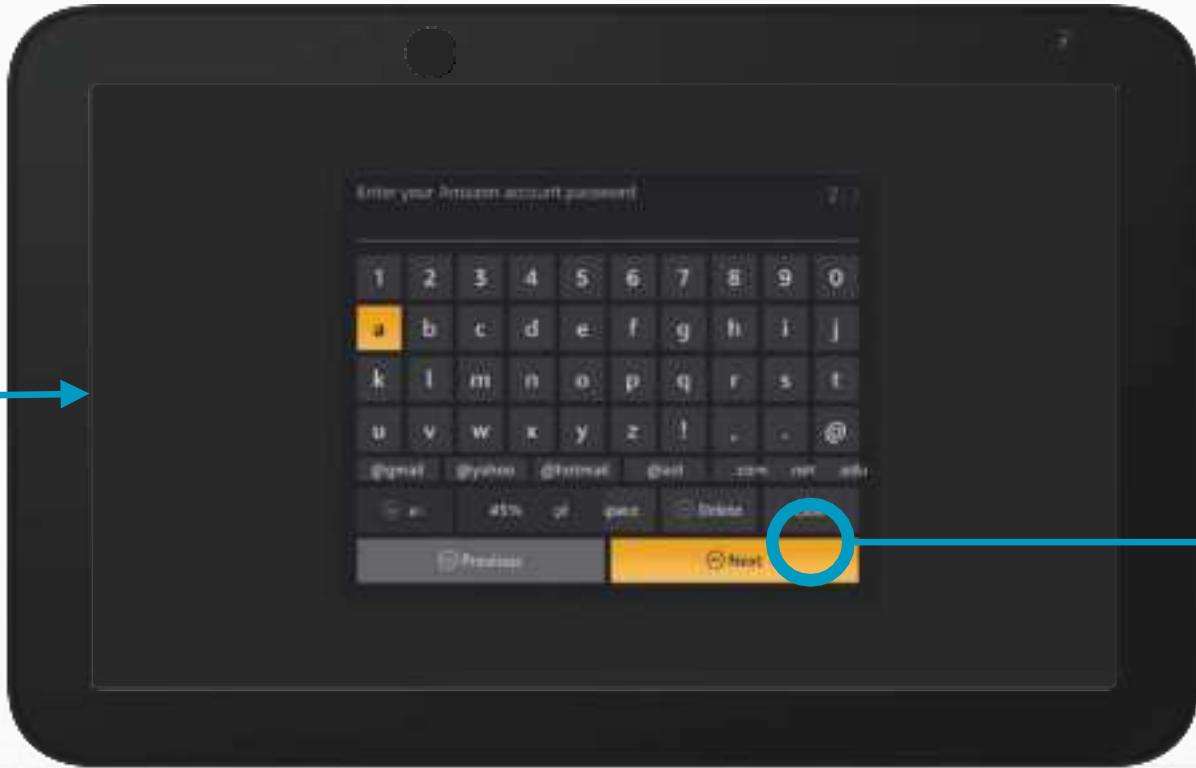


6.7



6.7 ENTER EMAIL

Tap for 'on TV Setup' / select menu button ...

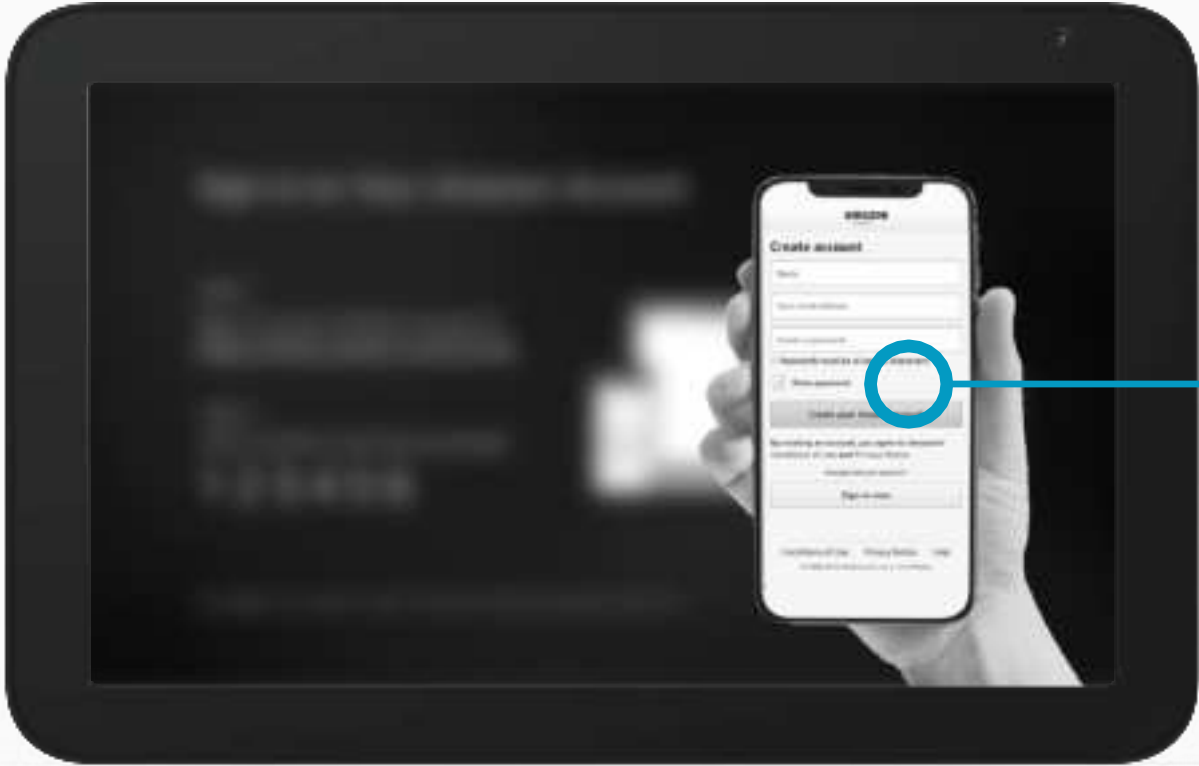


6.8 ENTER PASSWORD

Entered Emailaddress...

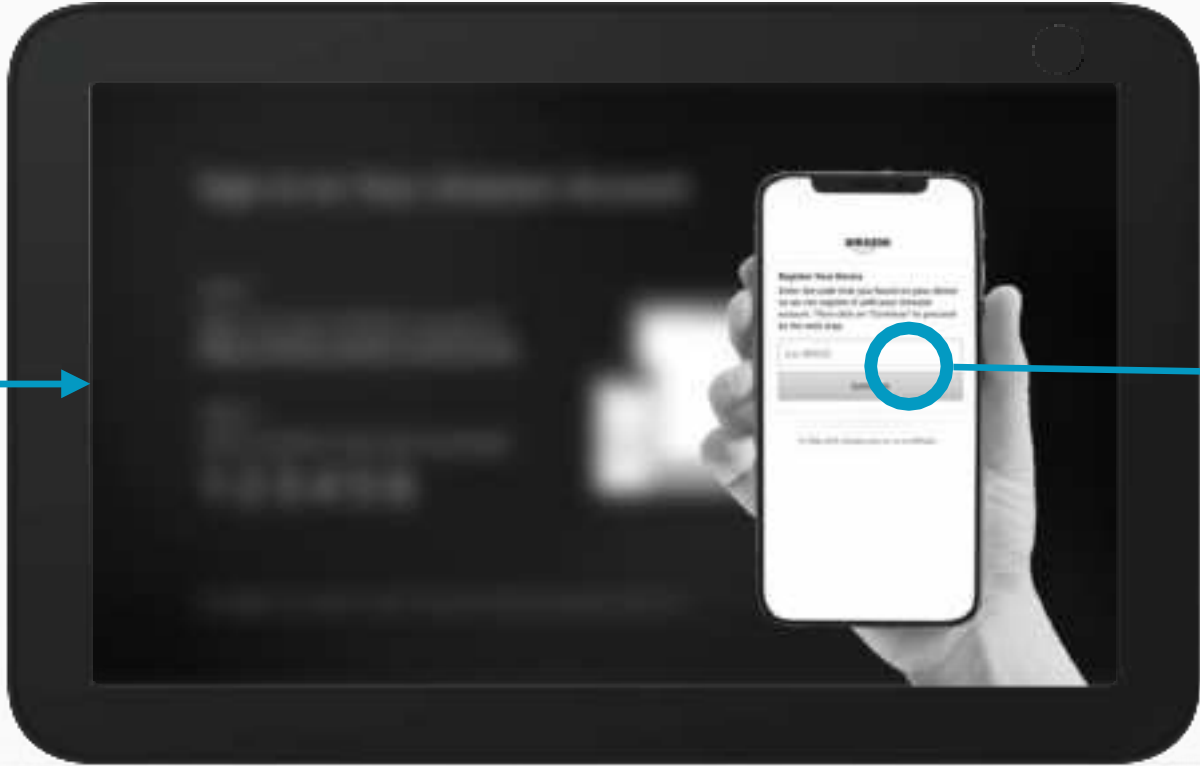


6.12



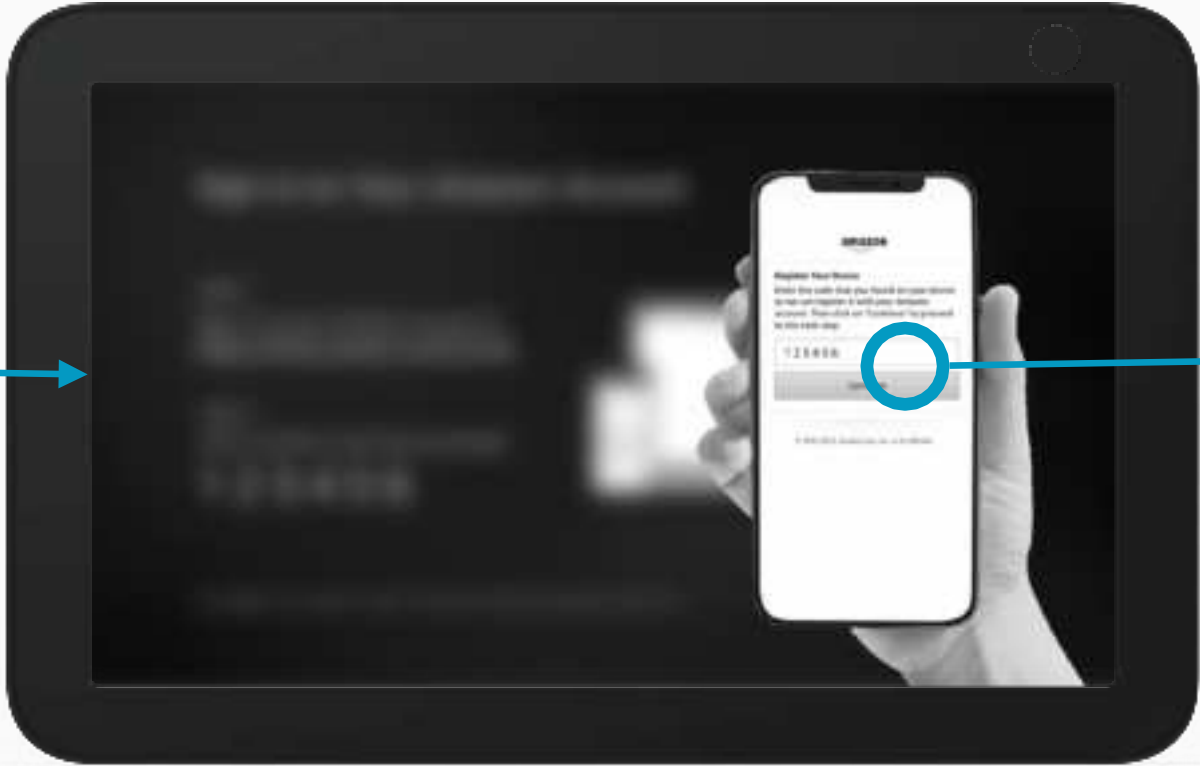
6.9 SIGN UP MOBILE ENTER EMAIL & PASSWORD

Sign up via mobile going to URL...



6.10 ENTER ACTIVATION CODE

Add email address &password...

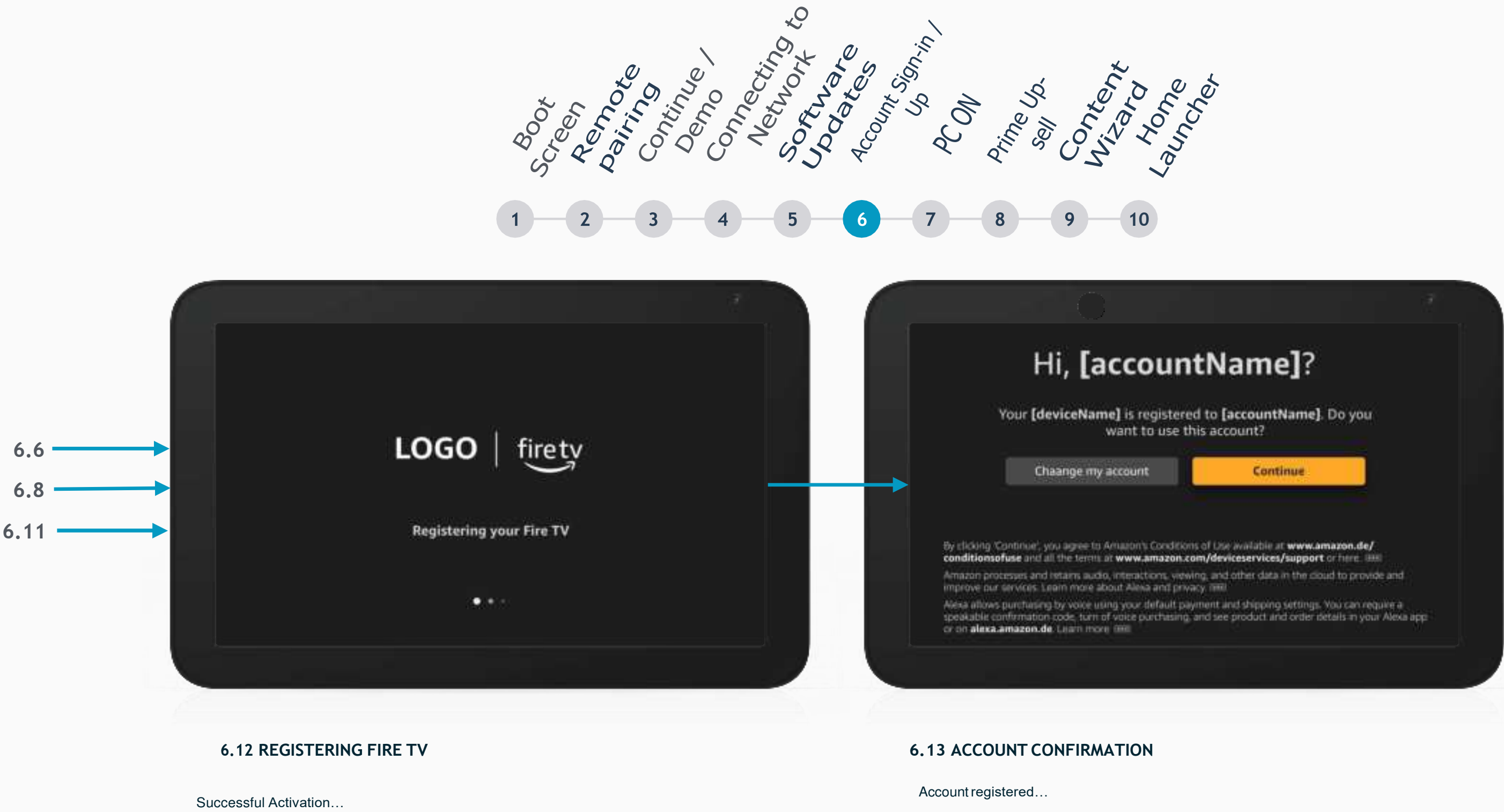


6.11 ACTIVATION CODE ADDED

Enter activation code...

Authenticates car to amazon account and will sign in to allscreens

6.12

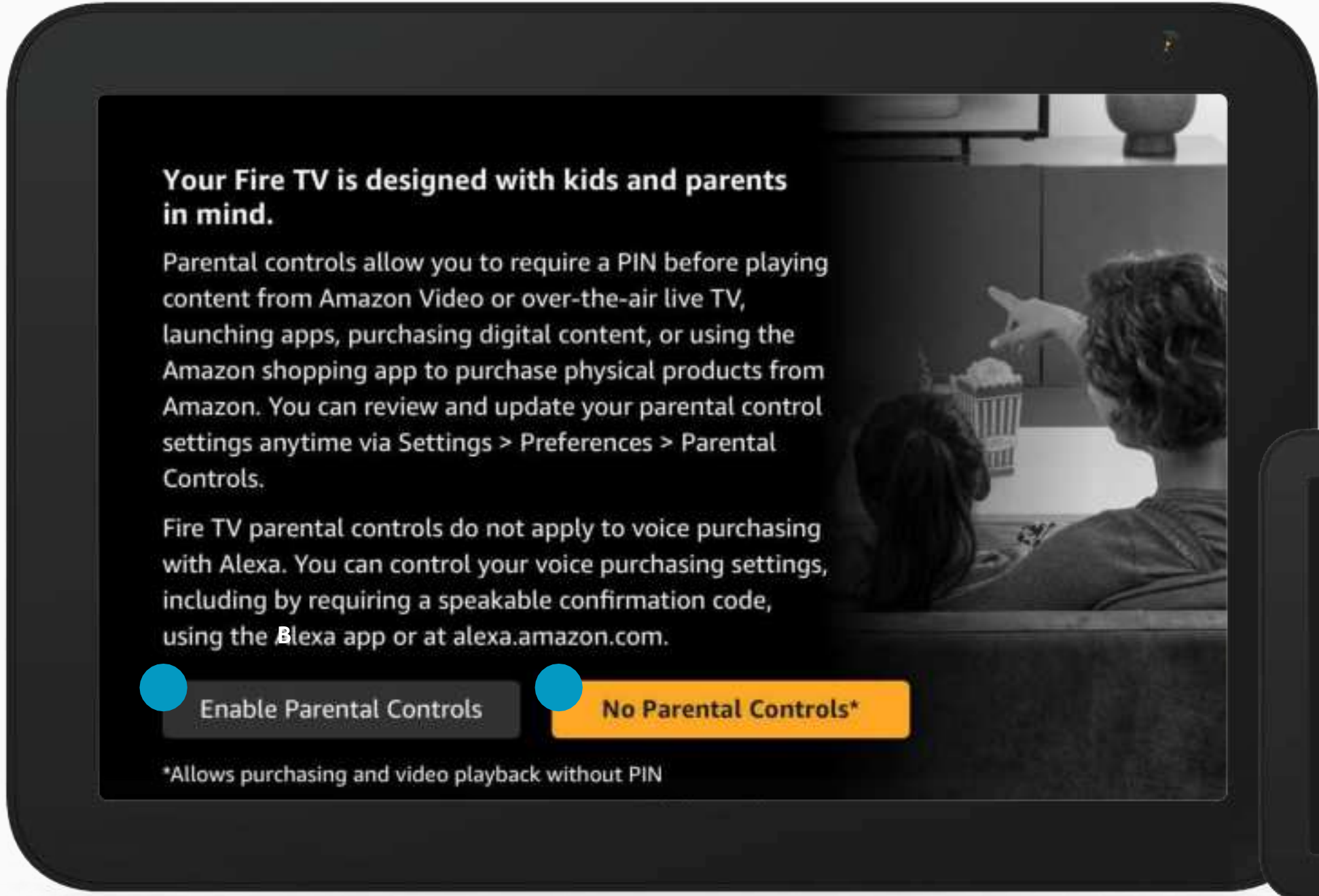




PCON



PCON



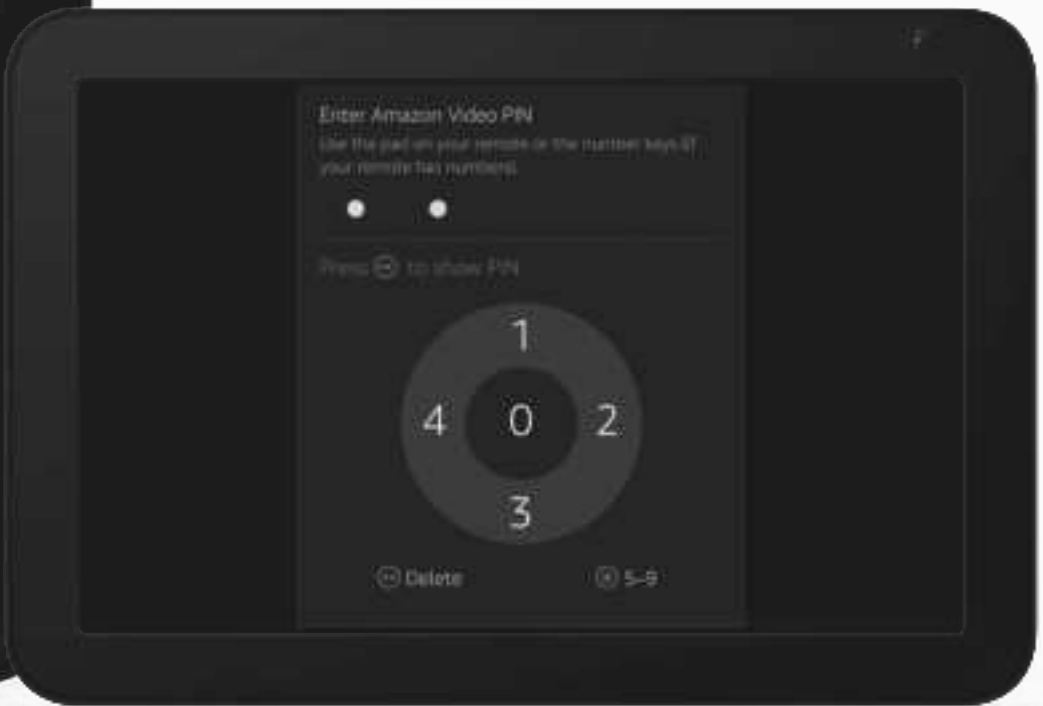
7.1

A

**Enable parental controls** (adds pin code to select content, purchasing ,andsettings)

B

**No parental controls** (allows purchasing and video playback without pin)





Prime Up-sell



Prime Up-sell



8.1

Only shown for customers who are not prime members

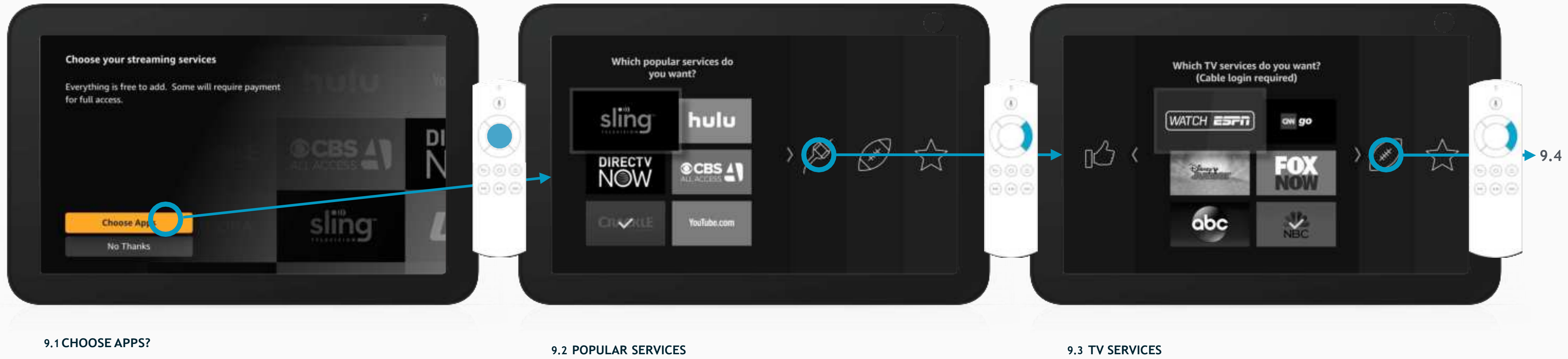
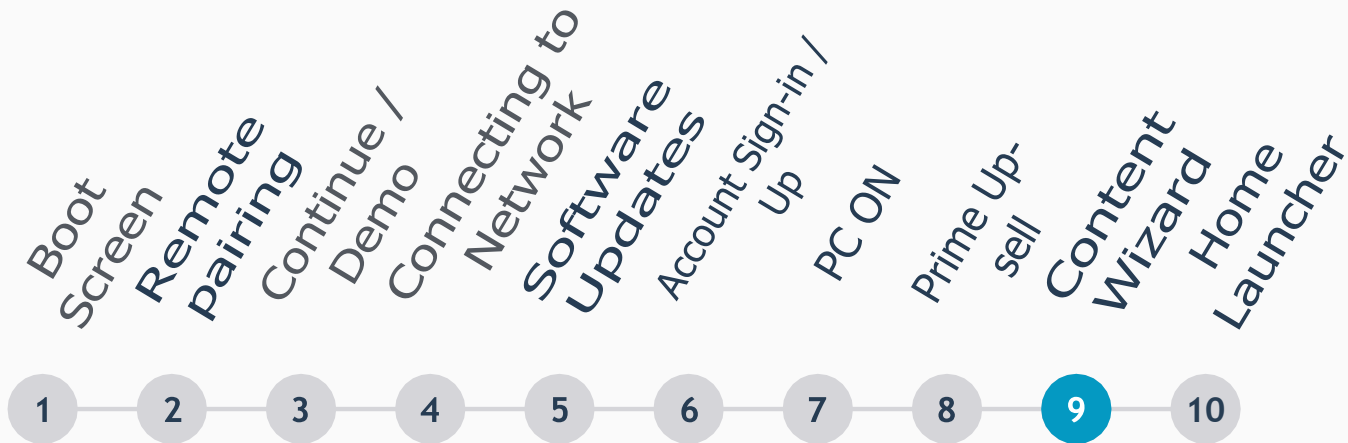
- A
- B
- C

Sign up to Prime (default focus)

Change Plans (touch or remote select)

No Thanks (touch or remote select to proceed to next screen)

\*Refer to app spec for additional details



After PCON and Prime Up-sell...

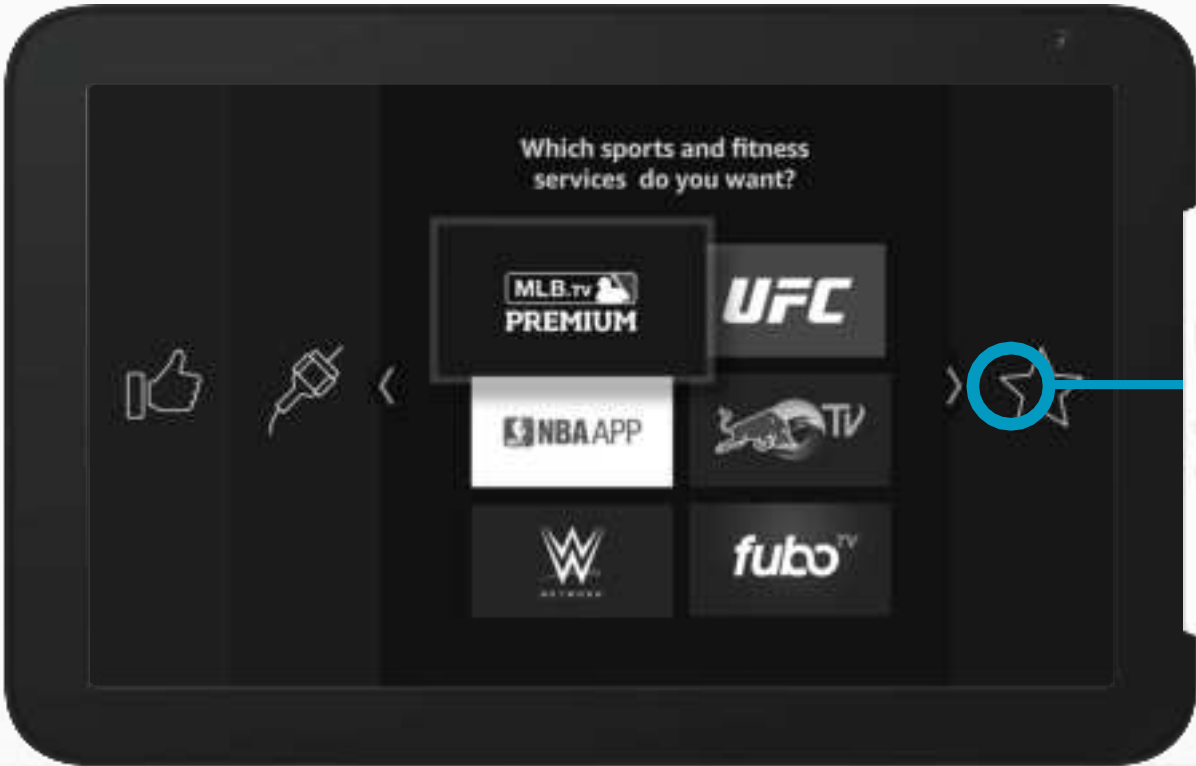
Choose Apps...

D-Pad Right or Tap Live...

Note: For ROW regions where apps are not available, content wizard will not appear at all in OOB.

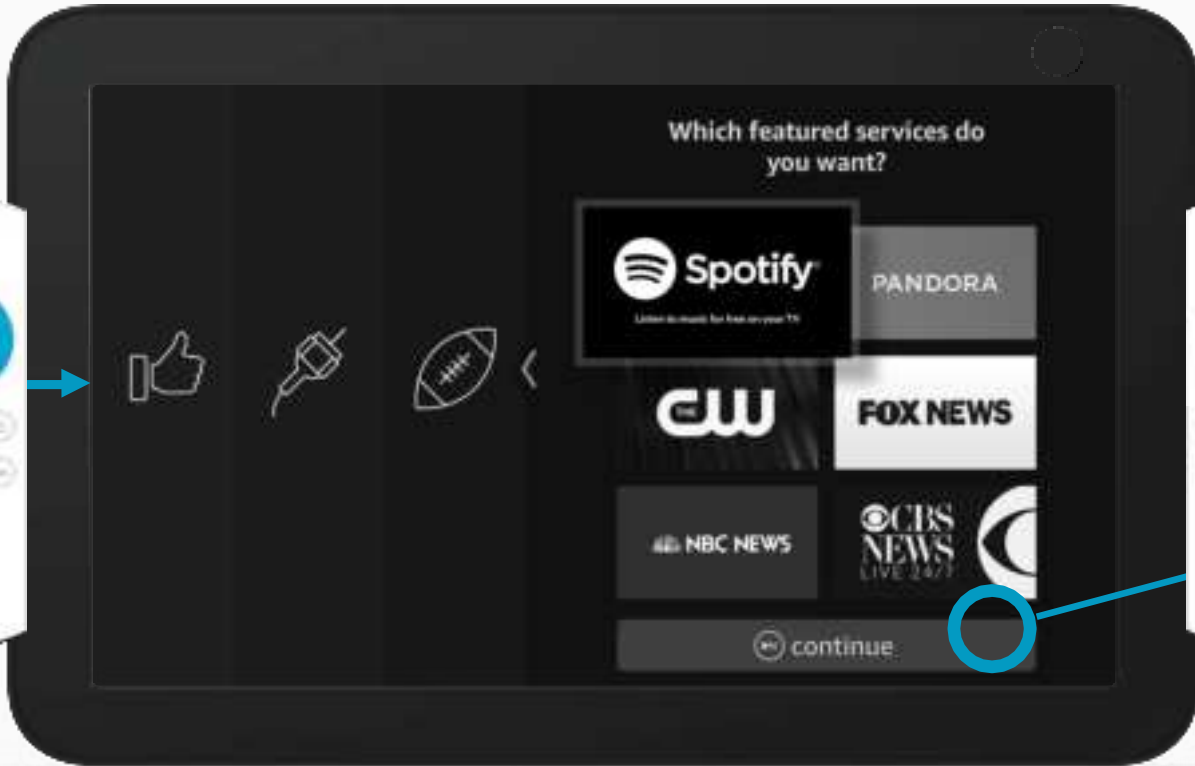


9.3



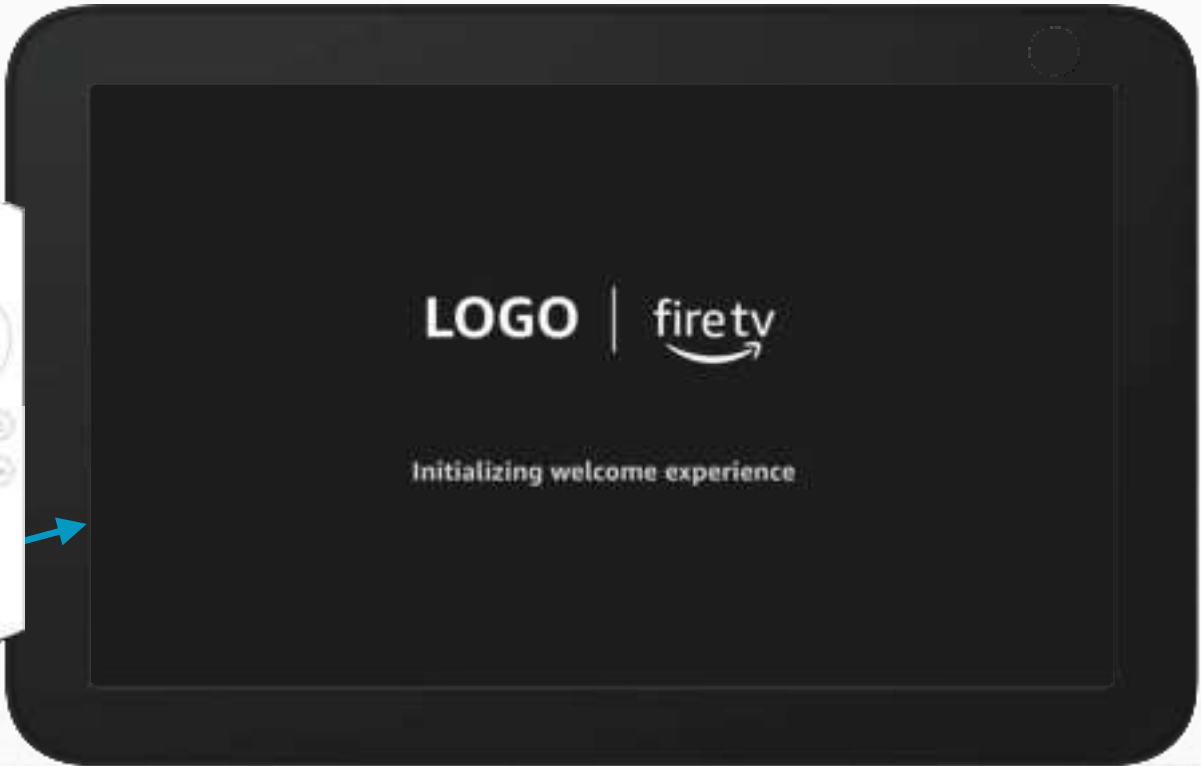
9.4 SPORTS APPS

D-Pad Right or Tap Live...



9.5 FEATURED APPS

D-Pad Right or Tap Live...



9.6 LOADING HOME EXPERIENCE

Press Play/Pause on the remote or tap button...



10.1

A

On first launch after OOBЕ, the first row on home will be "your apps and channels" as there is no recent content

Screen 2

01. Cobranded Animated Boot



02. Hold Screen for Screen 1



03. Screen 2 remote pairing



04. Continue or Video Demo

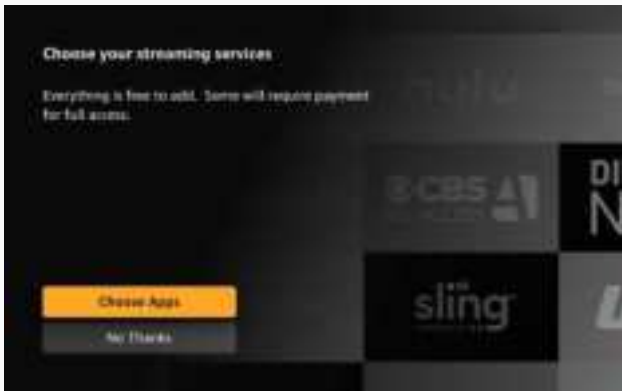


05. PCON

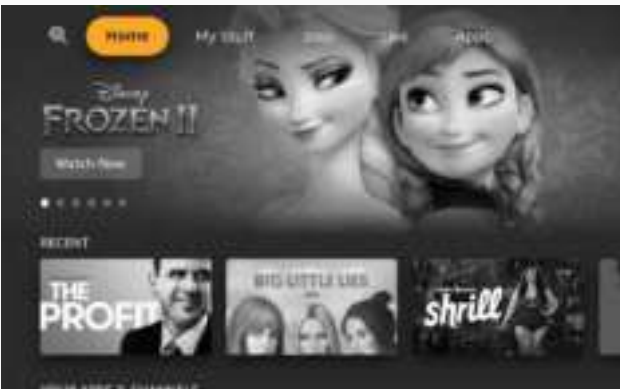


06

06. Content Wizard



07. Home

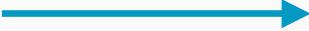






1.1 ANIMATED BOOT

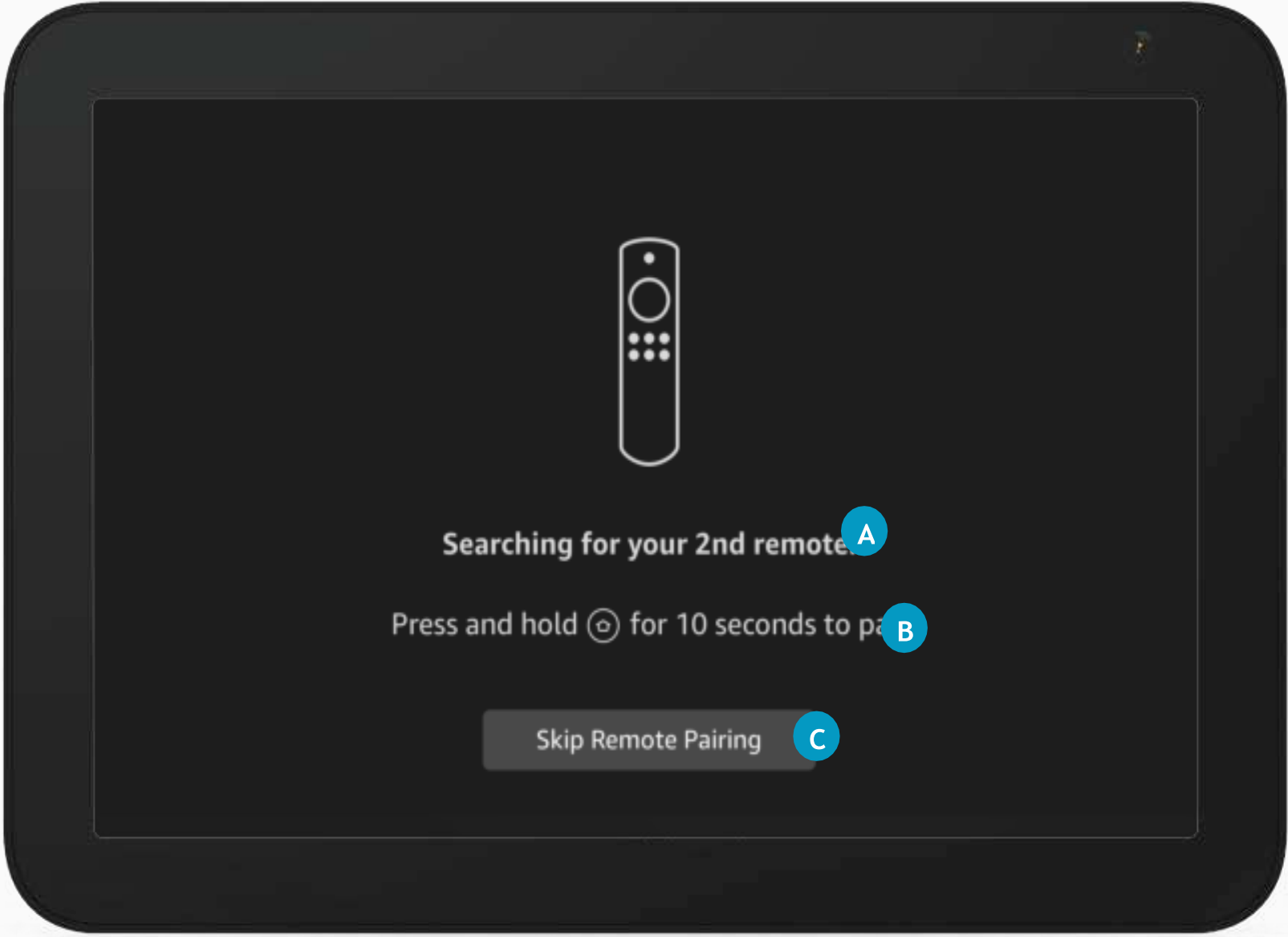
Turn on car...



1.2 BOOT HOLD UNTIL SCREEN 1 COMPLETE

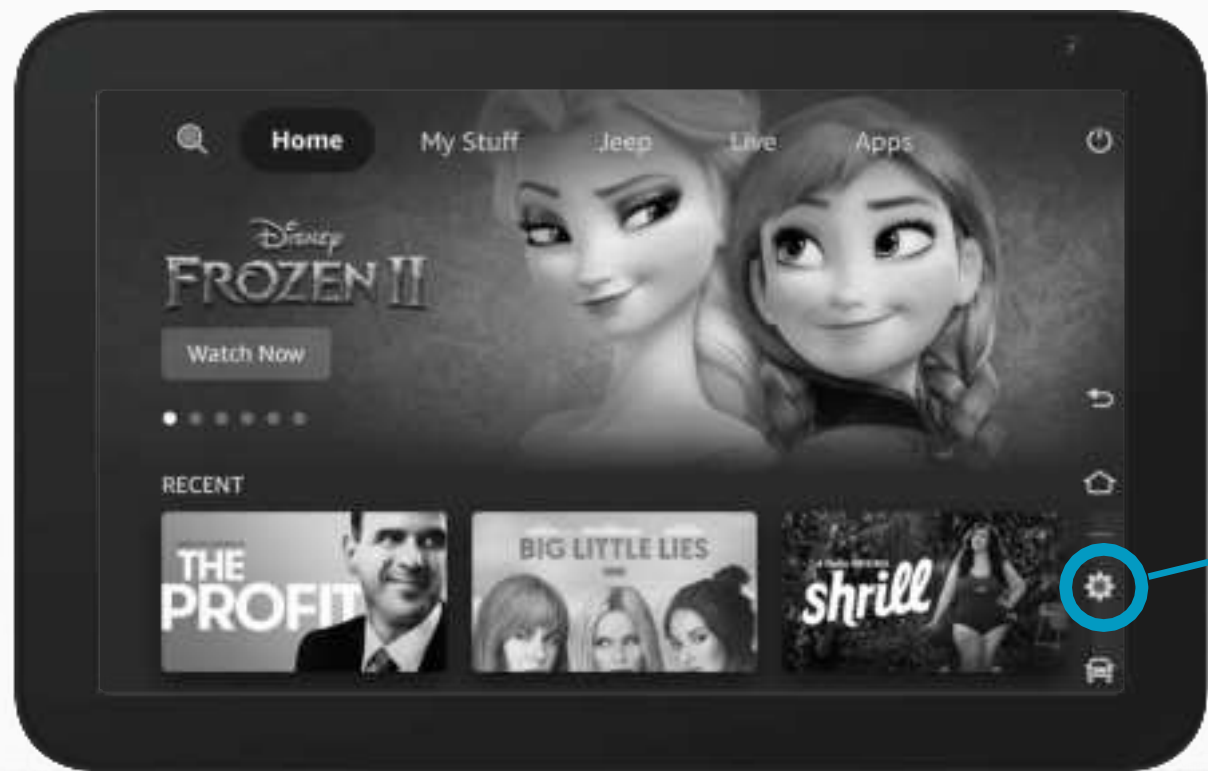
Start setup on screen 1...

We will hold the screen here until screen 1 OOB is complete. This device will not be searching for a remote until it receives the signal from screen 1 or the customer manually advances.



10.1

- A** This device will only begin searching for a remote once it receives the signal from screen one to show this screen, or the customer explicitly advances by touching the confirmation button.
- B** The customer is required to long press the remote button to ensure it is an intentional action. At the time of long press the remote will be put into discovery mode to pair
- C** The customer can still choose to skip remote pairing in OOB E and complete via touch. They will then need to navigate to settings after setup to pair the remote. Having this skip will support dealers reaching demo mode screen even in no connectivity or no remote in the car.



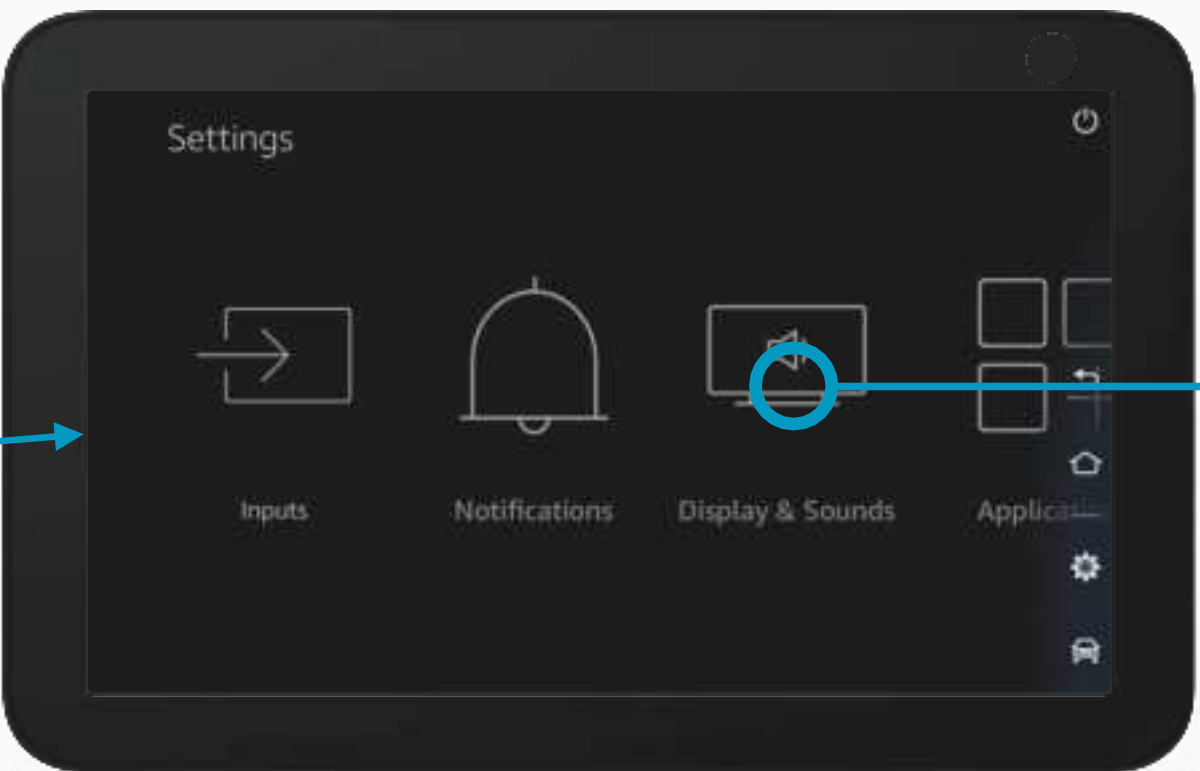
11.1 Home

Touchscreenonhome...



11.2 HUD OPEN

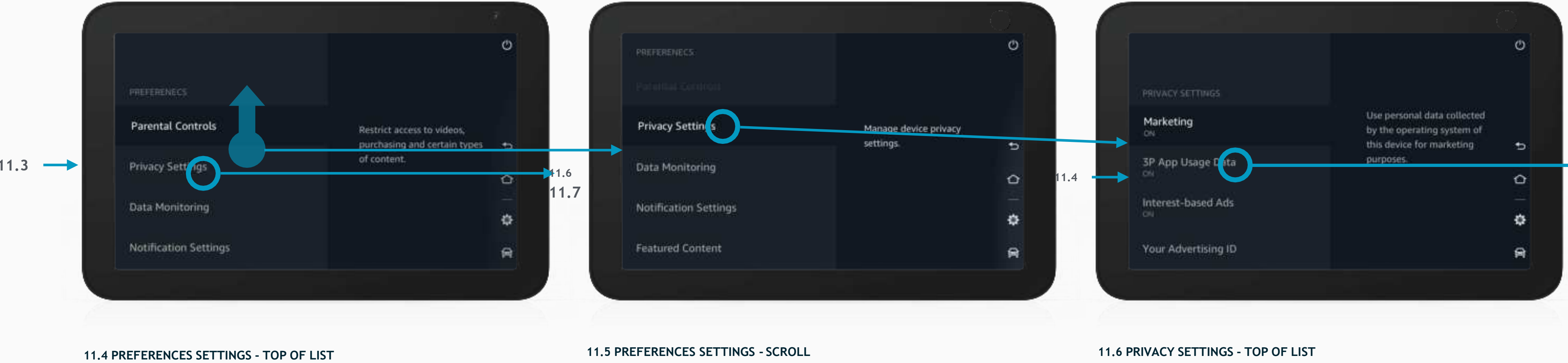
Bezelswipefromrighttoleftortapgear button on HUDPeek...



11.3 FULL SCREEN SETTINGS

Tap More Settings



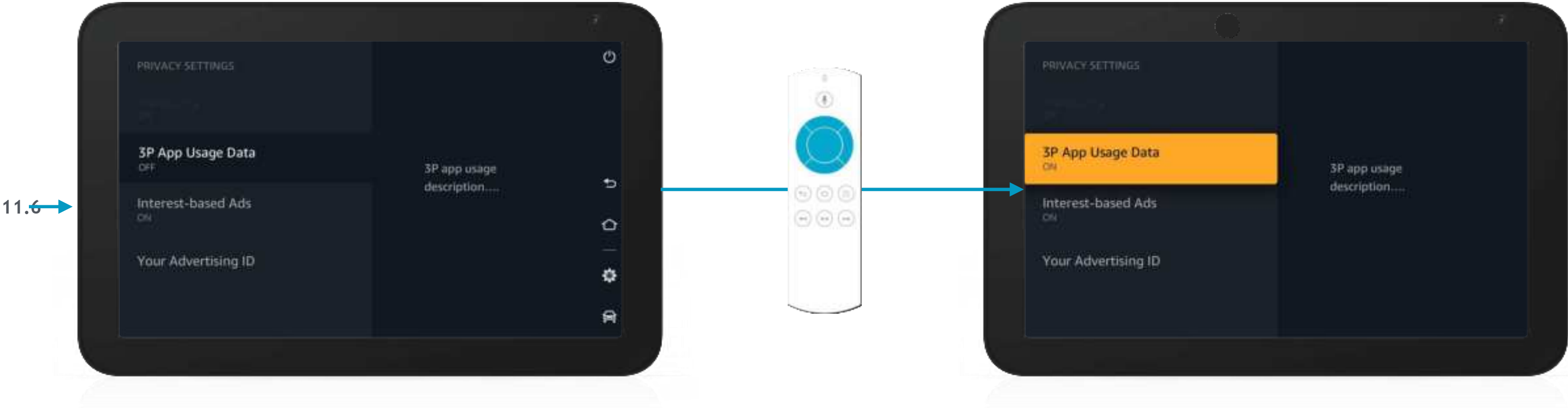


Tap on PreferencesSettings Node...

Swipe up Preferences SettingsList...

Tap on PrivacySetting...

Note: Header will still scroll up after moving from first item in touch and remote behavior.



11.7 PRIVACY SETTINGS - SCROLL

35

Tap 3P App Usage Data Setting when not selected...

Note: When the customer taps a toggle item by touch when it is not in the selected slot showing the description, it will take action to change the state and advance the item to the selected slot to reveal the info.

11.8 PRIVACY SETTINGS - SCROLL REMOTE

Customer picks up the remote and presses any D-Pad direction...

Note: The selected item will become in focus on first D-Pad action with remote, second action will begin navigation. HUD Peek is removed.



# Troubleshooting

Symptom	Remedy
Monitor does not power on.	<ul style="list-style-type: none"><li>• Verify the vehicle is in the ON/RUN or ACC position.</li><li>• Verify the battery is installed in the remote control and fresh.</li><li>• Verify the fuse located in-line is good.</li></ul>
Remote control does not function.	<ul style="list-style-type: none"><li>• Verify that the battery in the remote control is fresh.</li><li>• Verify that the remote sensor lens is not obstructed.</li></ul>
No picture.	<ul style="list-style-type: none"><li>• Check that the signal source is connected.</li><li>• Check the menu source setting. Match your monitor mode with the source correctly.</li></ul>
No sound or distorted sound.	<ul style="list-style-type: none"><li>• Make sure that the external media device is connected properly, and all cables are securely inserted into the appropriate jacks.</li><li>• Verify the volume is turned up on headphones.</li><li>• When placing the headphones on your head, make sure to observe the Left and Right orientation. The headphones must be oriented correctly (facing forward) in order to receive the audio signal.</li></ul>
Monitor feels warm.	<ul style="list-style-type: none"><li>• When the monitor is in use for a long period of time, the surface will be warm. This is normal.</li></ul>
A Parental Setting message is displayed, prohibiting movie playback.	<ul style="list-style-type: none"><li>• Using the remote control, enter your 4-digit Parental Password and then press Enter. Refer to “Parental Controls” section for more details.</li></ul>
	<ul style="list-style-type: none"><li>• </li></ul>
	<ul style="list-style-type: none"><li>• </li></ul>
	<ul style="list-style-type: none"><li>• </li></ul>
	<ul style="list-style-type: none"><li>• </li></ul>

# Specifications

LCD Backlight	LED
Resolution	720p LCD Panel
Sources	USB Type-C, HDMI, SD, FireTV
I/O Ports	3.5mm Headphone Jack, USB port, HDMI, SD Card Port
Headphone (Audio Out)	Wired headphones (not included)
Video Display System	NTSC/PAL
HDMI Compliant	Version 1.4
Wireless Audio	Dual channel digital audio transmitter, supports stereo headphone operation (reception: 0.9 m; 80°, 1.8 m; 50°)

## Compliance Information

FCC: Z3K-EVOLVE8

IC: 9930A-EVOLVE8

### FCC Notice

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there

is no guarantee that interference will not occur in a particular installation. If this device does cause unacceptable interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician for help.

### FCC Warning:

To assure continued FCC compliance, the user must use the provided grounded power supply cord and the shielded video interface cable with bonded ferrite cores. Also, any unauthorized change or modifications to this device would void the user's authority to operate this device.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



## Specifications

### ISED Notice:

This Class B digital apparatus complies with Canadian ICES-003.

Cet Appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### RSS-247 6.4(5)

- (i) the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
  - (ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
  - (iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and
  - (iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.
- (i) l'appareil pour fonctionner dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles à la co-canal systèmes mobiles par satellite;
  - (ii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être telle que l'équipement satisfait encore la pire limite;
  - (iii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5850 MHz doit être telle que l'équipement satisfait encore la pire limite spécifiée pour le point-à-point et non point-à-point, le cas échéant; opération et
  - (iv) l'angle d'inclinaison du pire (s) nécessaire pour rester conforme à la pire exigence de masque d'élévation énoncées dans la section 6.2.2 (3) doit être clairement indiqué.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

## Compliance Information

### WEEE Notice

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that device shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this device is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this device. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this device, please contact your local city office, your household waste disposal service or the shop where you purchased the device. Applicable accessory: remote control.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. And any use of such marks is under license. Other trademarks and trade names are those of their respective.

