

Activity – Gesture Tailgate Control Operation and Limitations

INSTRUCTION

Number the steps on the poster to show the correct sequence for Gesture Tailgate operation, then complete the table below.

Step #	Description
	RFA receives the signal from the RFR and verifies a valid Smart Key is present at the rear bumper
	BCM communicates via CAN to the Tailgate Control Module to perform a raise function
	Via CAN the RFA tells the BCM to carry out a direction indicator flash and to unlock the tailgate latch
	The RFA activates the rear bumper LF Antenna looking for the Smart Key
	Tailgate control module sends a signal to the tailgate power struts
	Tailgate hands-free module sends a wake-up signal to the RFA
	Tailgate latch unlock position is fed back to the BCM
	Customer performs a kick gesture
	The Smart Key sends a RF signal to the Radio Frequency Receiver (RFR)

QUESTION 1

How does the customer benefit from the location of the two Hands-Free Sensor locations?

QUESTION 2

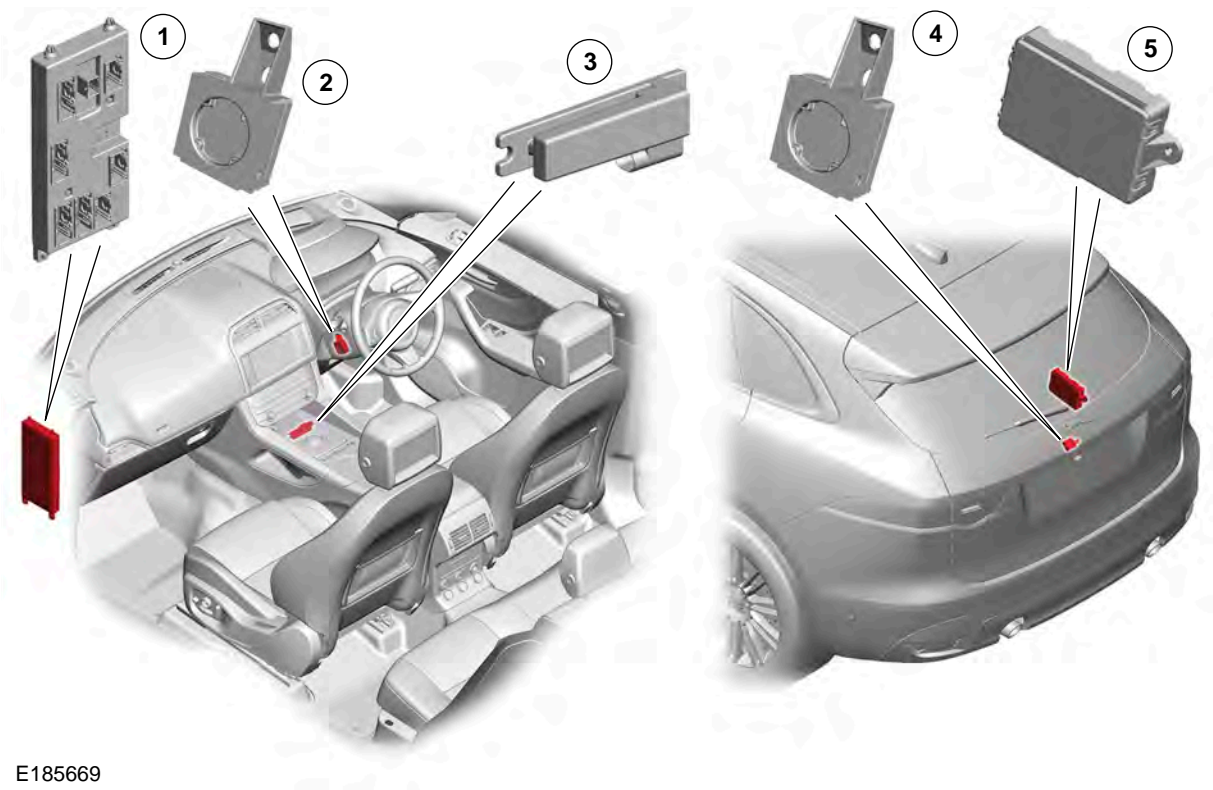
What actions could potentially cause a false Gesture Tailgate Control function? Discuss within your group and record your answers.

Activity – Activity Key

INSTRUCTION
OBJECTIVES: <ul style="list-style-type: none">• Identify Activity Key components and topology using TOPIx.• Investigate system operation and limitations.• Be prepared to share your results during the review. TIME: 30 minutes

Activity Key Components

INSTRUCTION
Identify the Activity Key components on the poster and complete the table in your Student Guide.



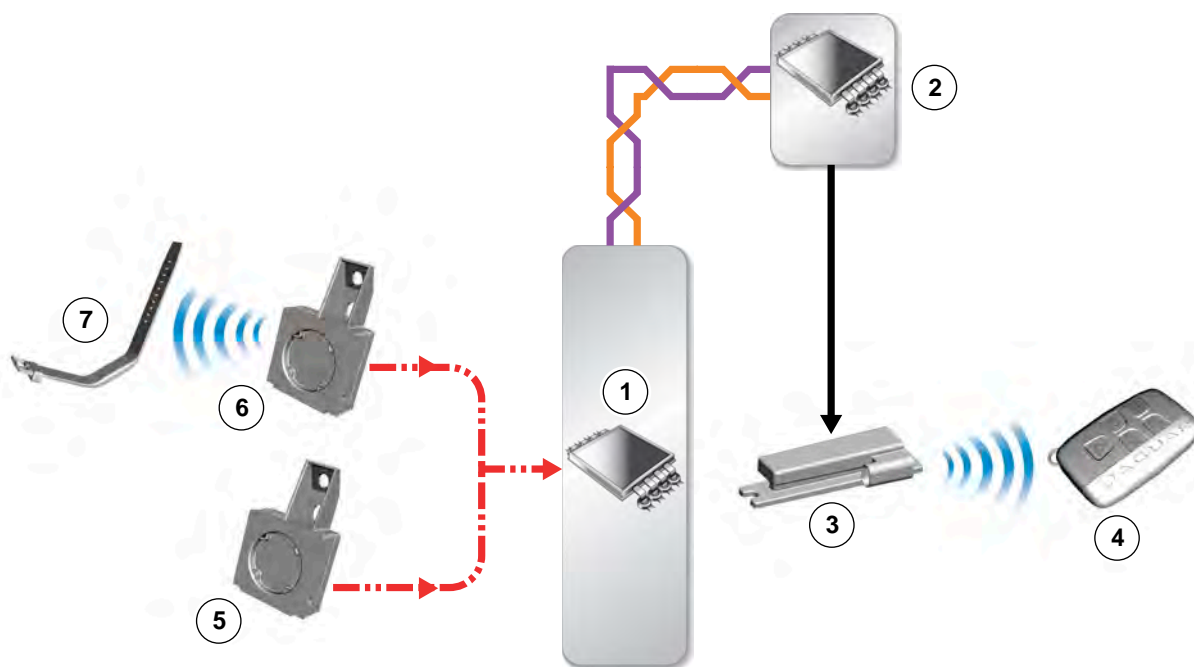
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Item	Description	Item	Description
1		4	
2		5	
3			

Activity Key Topology

INSTRUCTION

Using the Activity Key wiring diagram on TOPlx, identify the items on the poster and complete the table in your Student Guide.



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Item	Description	Item	Description
A		3	
O		4	
AO		5	
1		6	
2		7	

Activity Key Operation**INSTRUCTION****OBJECTIVE:**

- Familiarize yourself with operation of the Activity Key System

ACTIVITY:

- Investigate and identify Activity Key system limitations.
- Be prepared to share your results during the review.

TIME: 30 minutes

Review the instructions provided to fit the Activity Key system to the vehicle. Record key points on the installation process.

QUESTION 1

Where is the application required to set up the Activity Key located on the diagnostic equipment?

QUESTION 2

Describe the process to lock and unlock the vehicle using Activity Key.

To lock:

To unlock:

QUESTION 3

Is it possible to use the Smart Key left inside the vehicle to unlock or start the vehicle after locking the vehicle with Activity Key?

QUESTION 4

How is the Smart Key enabled if the Activity Key has not been used to unlock the vehicle (for example, manual unlocking with key blade)?

QUESTION 5

Double-locking non NAS: When locking the vehicle with the Activity Key, is it still possible to operate the interior door handle to open the door?

INSTRUCTION

Investigate the Activity Key functionality with each of the scenarios in the table. Record the results.

Scenario	Result
Turn off 'Two Stage Unlocking'. Is the feature active when using the Activity Key?	
Is it possible to open the tailgate after unlocking the vehicle with Activity Key when Two Stage Unlocking is turned off?	
Open the driver's door, close passenger door and lock the vehicle with Activity Key. Does the vehicle lock?	
Open the passenger door, close driver's door and lock the vehicle with Activity Key. Does the vehicle lock?	
Open the hood and lock the vehicle with Activity Key. Does the vehicle lock?	
Leave the Smart Key in the luggage compartment. Is the key still disabled when locking with the Activity Key?	
Lock the vehicle with the Smart Key. Open the tailgate using Gesture Control or the Smart Key. Place the Smart Key in the luggage compartment and lock the vehicle with Activity Key.	
Use the Smart Key in place of the Activity Key (position the Smart Key on the 'J' badge). Does the Activity Key function operate?	
Turn on the ignition. Is the Activity Key system functional?	
Set the door mirrors to fold when locking. Lock the vehicle with Activity Key. Does the door mirror folding feature activate?	
Lock the vehicle with Activity Key 1, unlock the vehicle with Activity Key 2. Is the Smart Key enabled?	