

## WIRELESS RF KEYPAD



### PRINCIPLES OF OPERATION

The wireless RF keypad Accessory performs most functions associated with a Factory Ford entry keypad using the wireless remote keyless entry receiver. The wireless RF keypad supports two unique communication protocols for programming to a vehicle architecture. Each protocol has uniquely different programming procedure. Keypad is NOT compatible with 2018MY and prior model vehicles using Type 1 Communication Protocol factory optioned with Intelligent Access (IA) key (PEPS-no key). The RF Keypad can be programmed to any vehicle that uses Communication Type 2, factory remote start (button on the key FOB) determines which of the two RF Keypad parts is required.



The wireless RF keypad can perform the following:

- Lock all the doors

Using the 5 digit master code or a personal 5 digit user programmed code

- Unlock the driver door
- Open the trunk or rear hatch
- Open the passenger sliding door
- Open the driver sliding door

### FAILURE DESCRIPTIONS COVERED

1. [KEYPAD DOES NOT ILLUMINATE](#) → [PINPOINT TEST A](#)
2. [NO RESPONSE FROM VEHICLE](#) → [PINPOINT TEST B](#)
3. [KEYPAD WILL NOT UNLOCK VEHICLE](#) → [PINPOINT TEST C](#)

### Warranty Claim

- A warranty claim must include the pinpoint test step that failed in the technician comments section.

### PINPOINT TEST A – KEYPAD DOES NOT ILLUMINATE

Possible Causes

- Keypad logic failure
- Depleted battery

### A1 – VERIFY ILLUMINATION

Test the keypad illumination of all 5 buttons by pressing each button and waiting 5 seconds for the illumination to turn off. Does the keypad illuminate for 5 seconds when each button is pressed (may require darkened area to see illumination)?

- YES - Battery is not depleted, logic is operating, GO TO PINPOINT TEST B.
- NO - Depleted battery or logic failure.

### PINPOINT TEST B – NO RESPONSE FROM VEHICLE

Possible Causes

- Remote Keyless Entry (RKE) failure
- Keypad not programmed to vehicle
- Keypad transmitter failure
- Battery low

### B1 – VERIFY RKE RECEIVER OPERATION

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### Does the vehicle unlock and lock using the production FOB?

- YES – Vehicle receiver functioning, GO TO B2.
- NO – Vehicle receiver malfunctioning, GO TO RKE Receiver Pinpoint Tests (refer to Factory Workshop Manual)

### B2 – VERIFY WIRELESS RF KEYPAD COMMUNICATION

Does the vehicle lock when the 7/8 and 9/0 buttons are pressed at the same time?

- YES – Wireless RF keypad transmitter functioning and programmed to vehicle, GO TO C1.
- NO – Keypad transmitter failure or keypad not programmed, GO TO B3.

### B3 – CHECK FOR KEYPAD OUT OF SYNC–1

Does vehicle lock when the 7/8 and 9/0 buttons are pressed at the same time 3 times within 5 seconds?

- YES – Passive re-sync done, GO TO C1.
- NO – Passive re-sync failed, GO TO B4.

### B4 – CHECK FOR KEYPAD OUT OF SYNC–2

Using a programmed FOB, lock the vehicle and then press the 7/8 and 9/0 buttons at the same time within 5 seconds. Does the vehicle lock?

- YES – Active re-sync done, GO TO C1.
- NO – Active re-sync failed, GO TO B5.

### B5 – CHECK FOR KEYPAD NOT PROGRAMMED

Follow the installation instructions for the vehicle the wireless RF keypad is being installed. Does the vehicle lock when pressing the 7/8 and 9/0 buttons at the same time?

- YES – Wireless RF keypad transmitter functioning and programmed to vehicle, GO TO C1.
- NO – Keypad programming failed, GO TO B6.

### B6 – CHECK FOR KEYPAD ATTACHED TO DOOR EXTERIOR

The process of programming the keypad to the vehicle requires additional transmissions from the keypad to make sure the process completes successfully. **Do not attach the keypad to the door's exterior until after it has been programmed to the vehicle.** If the keypad is attached to the door, remove it and follow installation instructions for the vehicle the wireless RF keypad is being installed.

Does the vehicle lock when pressing the 7/8 and 9/0 button at the same time?

- YES – Wireless RF keypad transmitter functioning properly and programmed to the vehicle, GO TO C1.
- NO – Transmitter failure, replace keypad.

### PINPOINT TEST C – KEYPAD WILL NOT UNLOCK VEHICLE

Possible Causes

- Wrong master code
- Keypad button failure
- Logic failure
- Depleted battery

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### C1 – UNLOCK USING MASTER CODE FROM CODE CARD.

Enter the master code printed on the master code card.

Does the vehicle unlock?

- YES – Complete.
- NO – Possible master code card mismatch, GO TO C2.

### C2 – LOOK UP MASTER CODE THROUGH ONLINE APPLICATION

Keypad is NOT compatible with 2018MY and prior model vehicles using Type 1 Communication Protocol factory optioned with Intelligent Access (IA) key (PEPS-no key). The RF Keypad can be programmed to any vehicle that uses Communication Type 2, factory remote start (button on the key FOB) determines which of the two RF Keypad parts is required.

The master code can be retrieved from [www.fmcdealer.com](http://www.fmcdealer.com)

Login goto > Parts and Service> Parts Product Line Information> Keys/Entry Devices>Aftermarket Keyless Entry Keypad Code Access

Access to this site is granted to DPES authorized users. Once accessed, the master code retrieval process is given. The master code for the wireless RF keypad cannot be retrieved from the body module with a diagnostic tool.

### General Information

- You will only see the key code link if your user ID has been granted access by the dealer.
- The wireless RF keypad is an accessory. These are the adhesive adhered pads.
- Key codes are available for all wireless RF keypads versions:
  - 7L2Z-14A626-BA superseded → E57Z-14A626-A superseded →
  - KB3Z-14A626-A (Prior to 2019MY) may require FDRS on some models transitioned prior to 2020MY
  - KB3Z-14A626-A (2020MY to CMY) **without** Factory Remote Entry Requires FDRS programming
  - KB3Z-14A626-B (2020MY to CMY) with Factory Remote Entry Requires FDRS programming
- The system will provide the master key code once the flash code has been entered.
- To get the flash code from the wireless RF keypad (read all steps prior to performing code retrieval):
  1. Press and hold the 1/2 and 3/4 buttons on the keypad.
  2. While pressing the 1/2 and 3/4 buttons, press and hold the 7/8 button until the 9/0 button (or LED) flashes, then release the buttons.  
Count and record each flash (including the first one)  
The 9/0 (or LED) button will flash each digit with a series of flashes at a one flash per second rate. There will be a 3 second pause between each digit. The flash code has 5 digits, each digit can be 1-5 (that is, a 1 will flash once followed by a 3 second pause, a 4 will flash four times followed by a 3 second pause, then the next digit will flash, followed by a 3 second pause until all 5 digits have been sent).
  3. These five digits are the flash code necessary to retrieve the master code.
- When the Aftermarket Keyless Entry Keypad Code Access site is reached:
  4. Enter the 5 digit flash code and press submit to get the master code.

Does the master code you obtained unlock the vehicle?

- YES – Complete.
- NO – Include keypad flash code and retrieved master code in warranty claim.