



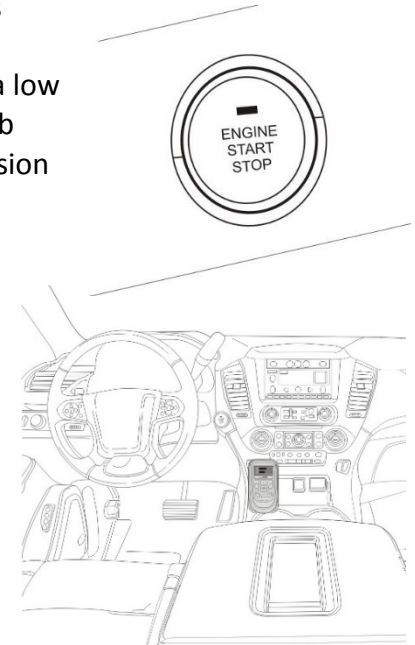
Repair Procedure

TSB #	SUBJECT		DATE
GI-11057-019	PASSIVE KEY		4/24/19
MAKE[S]	MODEL[S]	YEAR[S]	
See Below	-	-	
S/W VERSION[S]	TOOL[S] AFFECTED		
Any	TECH500, TECH400PRO		

Overview

Passive Entry – Keyless Ignition or “Push Button Start” (proximity keys) vehicles allow users to unlock/lock the vehicle doors and/or trunk as well as start the ignition without having to touch the vehicles Key Fob. This system is based on a low frequency (LF) / radio frequency (UHF) communication link between the key fob and the vehicle. To verify these systems are functioning correctly, the transmission signal from both the Key Fob and the Vehicle need to be verified.

Using you Bartec Tool (see tools covered above) and selecting the function “Passive Key” from the Home Menu Toolkit, the technician will be able to see and verify the signal from the Vehicle and the Key Fob by checking: the Entry Door, Trunk/Lift-gate, and Ignition (inside vehicle).

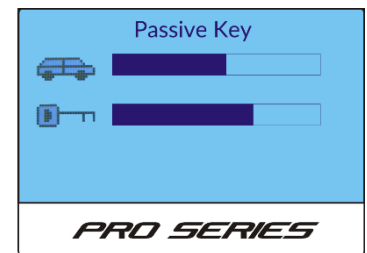


What to check for:

- Test the “2-way” communication between the Vehicle and the Key Fob
 - o Verify signal from the Vehicle (Low Frequency)
 - o Verify the response from the Key Fob (RKE-High Frequency)

Potential Issues or Faults:

- No Start: Dead Key Fob
- Low or Failing Batteries (Key Fob)
- LF Activators malfunction or fail (Vehicle System)
- Other interference, etc.



Video Link: <https://www.youtube.com/watch?v=x62erc-Pd5s>



Repair Procedure

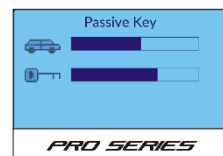
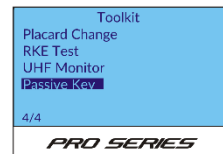
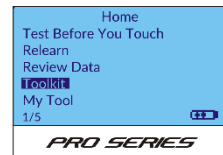
Manufactures using Passive Entry / Keyless Ignition

- Acura/Honda
- Audi/VW/Bugatti
- Aston Martin
- BMW
- FCA
- Ford/Lincoln
- GM
- Nissan/Infiniti
- Jaguar
- Hyundai/Kia
- Mazda
- Mercedes
- Mini
- Mitsubishi
- Porsche
- Subaru
- Toyota
- Volvo

Checking the Passive Key System

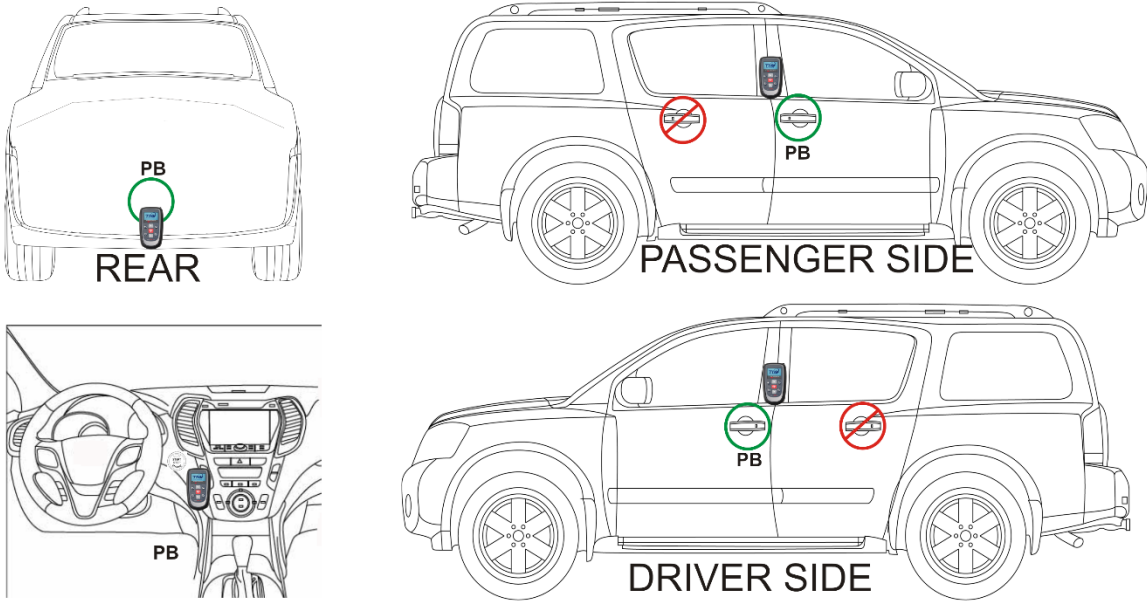
To check the Passive System, use the diagram below and follow these steps:

- 1) Navigate to the Toolkit located on the Home Menu
- 2) Select Passive Key from the options
- 3) Hold the tool (see locations below) and verify the signal from the Key and the Car
 - a. Push Button: Push the button to force the vehicle to transmit
 - b. Passive: Place your Hand in the door handle, or try to open the door handle to force the vehicle to transmit
 - c. Foot Activated: move your foot under the rear bumper of the vehicle





Repair Procedure 




REAR

PASSENGER SIDE

DRIVER SIDE

Feature supported by Tech400PRO & Tech500

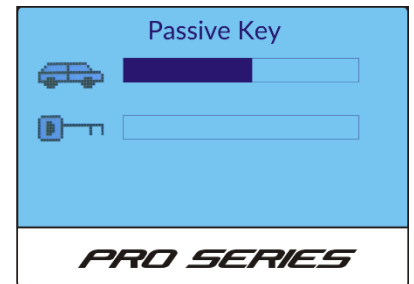


PB: Push Button to activate Passive Key
PS: Fully passive system - no button
FA: Foot Activated Liftgate

2015-2016 Jeep Renegade Passive Key Layout

Car Only:

Car is sending the LF signal to wake the Key Fob up. Verify the Key Fob is working by pressing all the keys (Lock, Unlock, Etc.) and seeing if you get any signal in the Key section. If you still do not get any response, the batteries may need to be changed.

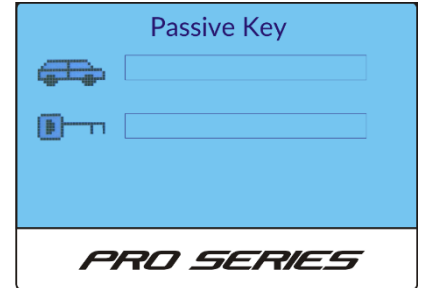




Repair Procedure

No Signals:

If you are pressing the “buttons” on the vehicle and you are not getting any signals, 1st try moving the tool to a different location on the vehicle. If still no results and the vehicle is having Passive System issues, the LF activation from the vehicle may be malfunctioning. Consult the vehicle manufacture for further information.



Key Only:

The “key only” will show when you are test the fob alone (pressing the fob buttons) or if the tool is not correctly positioned to hear the signal from the car. Reposition and try again.

