INSTALLATION GUIDE

SS0009
VEHICLE ANTI-THEFT SYSTEM
2020+ FORD INTERCEPTOR UTILITY

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PRODUCTS LLC.

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SS0009—2020+ Ford Utility Hardwire Instructions

I. Line Location

A. The dash has several overlapping panels that must be removed to gain access to the required wires. Remove the dash center tray, radio display, lower center trim, and HVAC panel to gain access to the ignition switch wiring. Remove the driver's side dashboard knee panel and steering column trim to access the shift lockout harness and the brake switch wiring.

B. Locate ignition switch connector, then identify 3 main ignition lines:
- **KEY-SENSE** (which should output 12V when the key is simply inserted into the key cylinder).
- **ACC-RUN** (which should output 12V when the key is first turned to activate vehicle accessories).
- **RUN-START** (which should output 12V when the key is turned to start then run the vehicle).

C. Locate a constant 12V power supply that can handle a 20A circuit, but nothing greater. A main power line should be used.

D. Locate an area on the vehicle chassis where the SS0009 will eventually have the ground wire attached. It is not recommended that the SS0009 ground wire be shared with any other component, so common ground wires should be avoided.

E. Locate a brake light line that gives a 12V output when the brake is pressed. If equipped, the Center High Mount Stop Lamp (CHMSL) is the best option, as it is typically independent of turn signals or hazard lights.

F. Locate the shift lock actuator line, typically underneath the steering wheel column. One of the wires should have a 12V output when the brake pedal is pressed.

G. The SS0009 provides an optional feature allowing the trunk release button to be disabled. If this feature is desired, then locate the trunk latch button and identify the line that gives a 12V output when the trunk latch button is engaged.

H. Once all of the aforementioned lines have been identified, disconnect the battery and wait 20 minutes for any stored capacitance to discharge.

II. Line Cutting & Splicing

A. Before beginning these steps, please reference Harness Diagram and Ford Ignition Switch and Ford BCM tables on page 5 and 6 of this guide.

B. Cut the KEY-SENSE ignition wire and strip both ends. Attach the WHITE/BLACK wire from the SS0009 harness to the end of the KEY-SENSE wire that is heading towards the ignition switch. Attach the YELLOW wire from the SS0009 harness to the end of the KEY-SENSE wire that is heading away from the ignition switch.

C. Cut the ACC-RUN ignition wire and strip both ends. Attach the ORANGE wire from the SS0009 harness to the end of the ACC-RUN wire that is heading towards the ignition switch. Attach the WHITE wire from the SS0009 harness to the end of the ACC-RUN wire that is heading away from the ignition switch.

D. Cut the RUN-START ignition wire and strip both ends. Attach the YELLOW/WHITE wire from the SS0009 harness to the end of the RUN-START wire that is heading towards the ignition switch. Attach the GREEN wire from the SS0009 harness to the end of the RUN-START wire that is heading away from the ignition switch.

E. Cut the shift lock actuator line and strip both ends. Attach the YELLOW wire from the SS0009 SHIFT DISABLE harness to one end of the shift lock actuator line. Attach the YELLOW/BLACK wire from the SS0009 SHIFT DISABLE harness to the other end of the shift lock actuator line (Polarity/orientation is irrelevant for this circuit).

F. If the optional SS0009 trunk disable feature is going to be used, cut the trunk latch actuator line and strip both ends. Attach the BLUE wire from the SS0009 TRUNK DISABLE harness to one end of the trunk latch actuator line. Attach the BLUE/WHITE wire from the SS0009 TRUNK DISABLE harness to the other end of the trunk latch actuator line (Polarity orientation is irrelevant for this circuit).

G. Splice the GREEN/WHITE wire from the SS0009 harness into the CHMSL brake light line (T-tap).

H. Splice the RED wire from the SS0009 harness into the constant 12V ignition power supply (T-tap).

I. If there is a desire to use the optional SS0009 gunlock output wire, then simply attach the BROWN SS0009 wire to the gunlock timer input wire (see gunlock timer installation manual for details). If this feature is not needed, simply cap off the BROWN wire with heat shrink or another type of wire insulator.

J. Attach the BLACK wire from the SS0009 harness to the isolated vehicle chassis point.

III. Testing

A. Reconnect the battery.

B. Test SS0009 for full functionality:

SS0009 unit test:

1. Start vehicle.
2. Turn SS0009 toggle switch on (red LED illuminated).
3. Turn key to off and remove from ignition switch. Vehicle should keep running.
4. Turn SS0009 toggle switch off (red LED not illuminated). Vehicle should shut down.

SS0009 brake pedal override:

1. Start vehicle.
2. Turn SS0009 toggle switch on (red LED illuminated).
3. Turn key to off and remove from ignition switch. Vehicle should keep running.
4. Depress brake. Vehicle should shut down.

SS0009 gun lock override:

1. Start vehicle.
2. Turn SS0009 toggle switch on (red LED illuminated).
3. Activate momentary switch for gunlock. Gunlock should disengage for 8 seconds, before reengaging.
4. Turn key to off and remove from ignition switch, and immediately activate momentary switch for gunlock. Gunlock should disengage for 8 seconds, before reengaging. After that, the gunlock should not be able to disengage anymore until the key is reinserted back into the ignition.

SS0009 trunk disable override:

1. Start vehicle.
2. Turn SS0009 toggle switch on (red LED illuminated).
3. With keys in ignition, activate the trunk release latch. Trunk should release.
4. Close trunk
5. Remove keys from ignition. While vehicle is still running, try activating the trunk release hatch. Trunk should not release.

C. After successful test verification, it is recommended that the SS0009 module be mounted securely to a solid location. A ¾" hole will need to be drilled to mount the SS0009 toggle switch, preferably in a location where the toggle switch will be in plain view on a flat surface. Harnesses should be secured away from any sharp metallic edges.

IV. Users Guide

Safestop's tamper proof anti-theft functions allow the vehicle to remain running while removing the ignition key. With the key removed, the vehicle maintains functionality of all accessories. Optional securing features for gun lock and trunk release are activated with no additional processes.

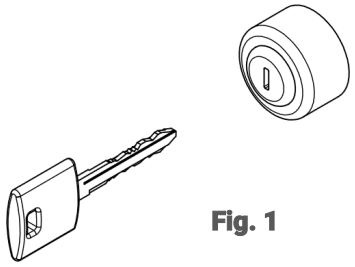


Fig. 1

Turning ON the Safestop System (Designed to be on at all times)

A. Locate the Safestop toggle switch.

B. Push the Safestop toggle switch to the ON position. The red LED should be lit confirming that Safestop is on.

Vehicle Operation (see Fig. 1)

A. Insert key into the ignition and start the vehicle as normal.

B. Operate the vehicle and all accessories as customary.

Safestop Activation (see Fig. 2)

A. Leave vehicle running.

B. Keep foot OFF the brake pedal.

C. Put vehicle in park.

D. Turn ignition to OFF position. ***Note:*** *Vehicle will keep running with all accessories functioning normally*

E. Remove KEY from ignition.

F. Safestop is now active.

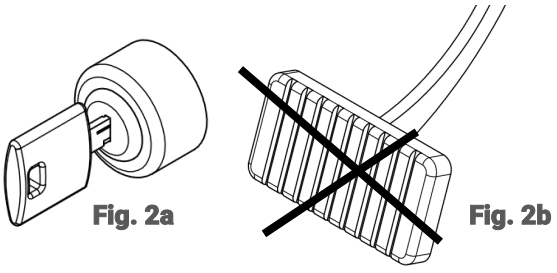


Fig. 2a

Fig. 2b

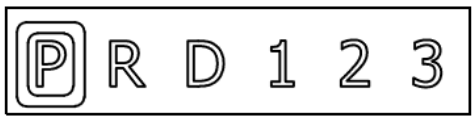


Fig. 2c

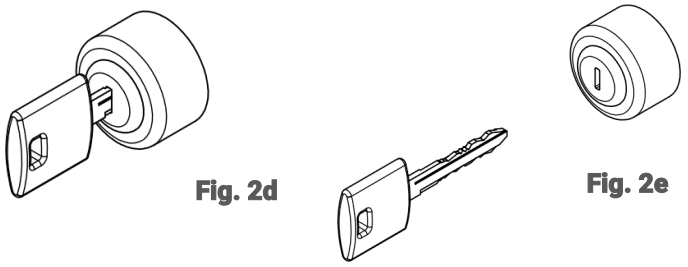


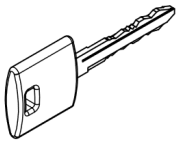
Fig. 2d

Fig. 2e

Satestop Deactivation (see Fig. 3)

A. Insert key into the ignition and turn ignition to ON position.

B. Operate vehicle and all accessories as customary.



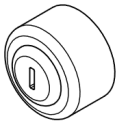


Fig. 3a

Safestop toggle ON

Vehicle shutdown procedure

A. Option A) Depress brake pedal. Engine will turn off.

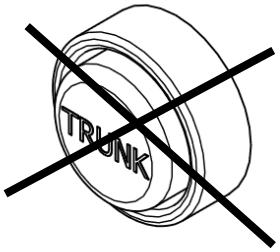
B. Option B) Push the Safestop toggle switch to the OFF position. The red LED should be off, confirming that Safestop is now OFF. Engine will turn off. Press Safestop toggle switch turning Safestop back ON.

Gun Lock Secure (optional)

A. Eliminates access to electronic weapon racks once Safestop is activated. Weapon will remain locked, even if the momentary switch is pressed.

Trunk Lock Secure (optional)

A. Eliminates access to the trunk once Safestop is activated. Trunk will remain locked, even if the factory latch release is pressed.



FORD IGNITION SWITCH					
ACCESSORY/RUN		START/RUN		KEY SENSE	
PIN	COLOR	PIN	COLOR	PIN	COLOR
6	VIOLET/GREEN	2	WHITE	3	YELLOW

FORD BCM							
12V CONSTANT		SHIFT DISABLE		TRUNK DISABLE		BRAKE LIGHT	
PIN	COLOR	PIN	COLOR	PIN	COLOR	PIN	COLOR
N/A	RED	4	BLUE/RED	2	YELLOW	4	VIOLET/WHITE
UNDER SEAT (REAR)		BOTTOM OF COLUMN		LIFTGATE LATCH		NEAR BRAKE PEDAL TOP	

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HARNESS DIAGRAM