# Setup Instructions

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* Extra components intentionally placed in kit as spares. Please follow instructions for proper placement of each component.

## Tools Required

<table>
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<th>Tool</th>
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<tr>
<td>Phillips Screwdriver</td>
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<td>Panel Removal Tool</td>
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<td>Wire Cutters</td>
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<td>Ratchet, 10mm Socket &amp; Extension</td>
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<td>Alcohol and Towel</td>
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<td>SSM4 (DST-i) Diagnostic Interface and Network-Enabled Laptop</td>
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## Meaning of Characters

- **Remove**
- **Install**
- **Disconnect**
- **Connect**
- **Location of Clip or Screw**
- **Tighten Torque**
- **Loosen**
- **Discard**
- **Re-use**

## Caution

*DO NOT SECURE ANY REMOTE START HARNESSES TO ANY YELLOW HARNESSES / CONNECTORS (AIRBAG SYSTEM) IN THE VEHICLE.*
1. Using a 10mm socket/ratchet, disconnect the negative battery cable. (FIGURE A)
   **NOTE:** Do not disconnect the battery terminal from the battery post.

2. Open the glove box and press inward on the sides of the glove box to disengage the retaining tabs from the glove box inner cover. Disconnect the strut to remove the glove box. (FIGURE B)

3. Using a panel removal tool, carefully press downward to disengage three (3) pressure clips to remove the passenger’s side under dashboard finisher panel. (FIGURE C)
1. Locate and release the vehicle’s 2-pin power window interrupt pre-fit connectors secured to the vehicle’s wire harness with breakaway tape near the upper right passenger’s side glove box area. (FIGURE D)

2. When the vehicle’s 2-pin power window interrupt pre-fit connectors are free from the breakaway tape, unplug and discard the 2-pin mating connector/wire jumper. (FIGURE E)

3. Plug the 2-pin power window interrupt pre-fit connectors together to complete the circuit. (FIGURE F)

4. Secure the 2-pin power window interrupt pre-fit connectors to the vehicle’s wire harness with one (1) of the supplied 39cm tie wraps. Trim off the excess tie wrap. (FIGURE G)
IMPORTANT! THIS SECTION ONLY APPLIES TO VEHICLES WITHOUT THE HARMAN/KARDON AUDIO SYSTEM. FOR VEHICLES EQUIPPED WITH THE HARMAN/KARDON AUDIO SYSTEM, DISREGARD THIS SECTION AND PROCEED TO SECTION 7.

1. Locate and release the vehicle’s 12-pin pre-arranged harness connector secured to the vehicle’s wire harness with breakaway tape near the upper left passenger’s side glove box area. (FIGURE H)

2. When the vehicle’s 12-pin pre-arranged harness connector is free from the breakaway tape, route the harness down through the opening in the glove box inner cover. Plug the 12-pin pre-arranged harness connector into the remote engine start jumper harness 12-pin connector. (FIGURE I)

3. Route the remote engine start harness back through and behind the glove box inner cover. Plug the remote engine start jumper harness 12-pin connector into the 12-pin white port on the remote engine start ECU. (FIGURE J)
4. Locate the factory mounting bracket/studs near the upper left passenger's side glove box area. (FIGURE K)

5. Using the two (2) supplied 10mm hex flange nuts, secure the remote engine start ECU/bracket to the factory bracket/studs, as shown. (FIGURE L)

6. Using a 10mm socket/torque wrench, tighten the 10mm hex flange nuts to 7.5 Nm +/- 2 Nm (0.76 Kgf-m +/- 0.2 Kgf-m, 5.5 ft-lbs +/- 1.5 ft-lbs).
   **NOTE:** Ensure the Remote Engine Start ECU connectors will be facing forward, toward the vehicle's dashwall.

7. Using two (2) of the supplied 39cm tie wraps, secure the pre-arranged jumper harness to the vehicle's wire harness above and below the pre-arranged harness connection, as shown. Trim off the excess tie wraps. (FIGURE M)
**PRE-ARRANGED JUMPER HARNESS CONNECTION / RES ECU MOUNTING**

**HARMAN/KARDON AUDIO SYSTEM EQUIPPED VEHICLES**

**IMPORTANT! THIS SECTION ONLY APPLIES TO VEHICLES WITH THE HARMAN/KARDON AUDIO SYSTEM. FOR VEHICLES NOT EQUIPPED WITH THE HARMAN/KARDON AUDIO SYSTEM, DISREGARD THIS SECTION AND RETURN TO SECTION 6.**

1. Locate the DC-DC Converter Module near the upper left passenger’s side glove box area and the remote engine start ECU. Using a 10mm socket/ratchet, remove the two (2) 10mm hex flange nuts securing the DC-DC Converter Module and remove it from its' mounting location. Unplug the two (2) vehicle harness connectors from the DC-DC Converter Module. Using a Phillips screwdriver, remove the two (2) screws securing the remote engine start ECU to the mounting bracket, as shown. (FIGURE N)

**NOTE:** The remote engine start ECU mounting bracket/screws will not be used on this vehicle.

2. Locate and release the vehicle’s 12-pin pre-arranged harness connector secured to the vehicle’s wire harness with breakaway tape near the upper left passenger’s side glove box area. (FIGURE O)

3. When the vehicle’s 12-pin pre-arranged harness connector is free from the breakaway tape, route the harness down through the opening in the glove box inner cover. Plug the 12-pin pre-arranged harness connector into the remote engine start jumper harness 12-pin connector. (FIGURE P)
4. Route the remote engine start harness back through and behind the glove box inner cover. Plug the remote engine start jumper harness 12-pin connector into the 12-pin white port on the remote engine start ECU. (FIGURE Q)

5. Using alcohol, clean the face of the DC-DC Converter Module above and below the ID label and the back of the remote engine start ECU, as shown. (FIGURE Q)

NOTE: Ensure the DC-DC Converter Module and Remote Engine Start ECU are completely dry.

6. Using the supplied double sided foam tape, remove the two (2) release liners and attach to the face of the DC-DC Converter Module above and below the ID label, as shown. Press the foam tape firmly in place for at least thirty (30) seconds. (FIGURE R)

NOTE: Ensure the foam tape does not cover the DC-DC Converter Module ID Label.

7. Remove the two (2) remaining release liners from the foam tape and attach the remote engine start ECU, as shown. Ensure the ECU is mounted flush with the top, left edges of the DC-DC Converter Module without interfering with the two (2) bracket mounting holes. Press the ECU firmly in place for at least thirty (30) seconds. (FIGURE S)

8. Using one (1) of the supplied 39cm tie wraps, secure the remote engine start ECU to the DC-DC Converter Module, as shown. Trim off the excess tie wrap. Plug the two (2) vehicle harness connectors back into the DC-DC Converter Module. (FIGURE S)

9. Using the two (2) previously removed 10mm hex flange nuts, secure the DC-DC Converter Module and remote engine start ECU assembly back to the factory bracket/studs. (FIGURE S)

10. Using a 10mm socket/torque wrench, tighten the 10mm hex flange nuts to 7.5 Nm +/- 2 Nm (0.76 Kgf-m +/- 0.2 Kgf-m, 5.5 ft-lbs +/- 1.5 ft-lbs). (FIGURE S)

NOTE: View with glove box inner cover removed. (For illustration purposes only)
11. Using two (2) of the supplied 39cm tie wraps, secure the pre-arranged jumper harness to the vehicle’s wire harness above and below the pre-arranged harness connection, as shown. Trim off the excess tie wraps. (FIGURE T)

8 PANEL RE-ASSEMBLY

1. Re-install the passenger’s side under dashboard finisher panel by engaging the three (3) pressure clips.
2. Re-install the glove box and strut.
3. At the end of the installation, insert the Quick Reference Cards into the Owner’s Information Kit.

9 UNDER HOOD WARNING LABEL MOUNTING

1. Using alcohol, clean the top of the air intake plenum, near the radiator core support.
   NOTE: Ensure the air intake plenum is completely dry.
2. Remove the release liner from the under hood warning label and secure to the top of the air intake plenum, as shown. (FIGURE U)
10 SYSTEM POWER-UP

1. After all the connections are complete, re-connect the vehicle’s negative battery cable. Using a 10mm socket/torque wrench, tighten the 10mm nut to 7.5 Nm +/- 2 Nm (0.76 Kgf-m +/- 0.2 Kgf-m, 5.5 ft-lbs +/- 1.5 ft-lbs).

2. Start the vehicle at least one (1) time using the Access key prior to activating the remote engine start system. This is required to allow the vehicle’s electronic systems to re-synchronize.

3. With the vehicle running via the Access key, verify that the instrument cluster airbag light turns off. If the airbag light remains on, refer to the vehicle service information for troubleshooting.

4. Refer to the vehicle Owner’s manual for the Power Window Reset Procedure to restore the power window functions.

11 SYSTEM REGISTRATION
ENSURE SOFTWARE VERSION IS REVISION 18.1.1 OR NEWER (JULY 2019 UPDATE)

DST-i SETUP
Plug the DST-i diagnostic plug into the vehicle’s diagnostic connector → Plug the DST-i USB plug into a Network-Enabled laptop → Select/Open the SSM4 software on the Network-Enabled laptop

REGISTRATION

1. PRESS IMMOBILIZER ETC. REGISTRATION AND PRESS SELECT

2. PRESS LEGACY AND PRESS SELECT

3. PRESS H TYPE FOR PUSH START MODELS PRESS CONFIRMED AND WAIT FOR LAPTOP TO ESTABLISH CONNECTION

4. PRESS REMOTE ENGINE START CM REGISTRATION AND PRESS CONFIRMED

With an Access key inside the vehicle turn ON the ignition
REGISTRATION, continued

5. ENTER AUTHENTICATION KEY AND PRESS CONNECTION

6. PRESS YES TO EXECUTE REGISTRATION

WAIT FOR BIU TO COMMUNICATE WITH RES CONTROL MODULE

7. REGISTRATION SUCCESSFUL, PRESS OK
POST INSTALLATION CHECKLIST

1. REMOTE ENGINE START- Ensure the Access key is removed from the vehicle, the engine hood, all doors and trunk are closed. Press the START button on the remote start transmitter two (2) times within three (3) seconds. The vehicle’s parking lights should flash and the vehicle’s horn should honk one (1) time and then the vehicle should crank and start. Once started, the transmitter LED will flash two (2) times and the parking lights will turn on and stay on signifying the vehicle is running. The transmitter LED will flash one (1) time every three (3) seconds signifying the vehicle is still running.

2. CUSTOMER TAKE OVER - While the vehicle is running by the remote engine start, wait at least five (5) seconds and then confirm that all functions (lock, unlock & trunk, but not panic) operate properly on the Access key (FACTORY transmitter). Once the Access key functionality is confirmed, press the UNLOCK button on the Access key, open the driver’s door and enter the vehicle with the Access key. Press and hold the brake pedal, press the ENGINE START/STOP button on the dashboard one (1) time and move the shift position lever from the “P” position to the “D” position and back to the “P” position. The remote engine start should shut down and the transmitter LED should flash three (3) times indicating the system has shut down, but the engine should remain running. Press the ENGINE START/STOP button on the dashboard one (1) time to turn off the vehicle.

3. ACTIVATION WITH DOOR UNLOCKED - Ensure the Access key is removed from the vehicle, the engine hood, all doors and trunk are closed and the driver’s door is unlocked. Press the START button on the remote start transmitter two (2) times within three (3) seconds. The vehicle’s parking lights should flash and the vehicle’s horn should honk six (6) times. The vehicle should not start with the driver’s door unlocked.

4. ACTIVATION WITH DOOR OPEN - Ensure the Access key is removed from the vehicle and the engine hood and trunk are closed. Open the driver’s door and press the START button on the remote start transmitter two (2) times within three (3) seconds. The vehicle’s parking lights should flash and the vehicle’s horn should honk six (6) times. The vehicle should not start with any door or trunk opened.

5. HOOD SAFETY SWITCH - Open the engine hood and activate the remote engine start. The vehicle’s parking lights should flash and the vehicle’s horn should honk two (2) times. The vehicle should not start when the hood safety switch is activated.

6. HEATER / AC FUNCTION - With the Access key inside the vehicle, press the ENGINE START/STOP button on the dashboard two (2) times to turn ON the ignition. Preset the vehicle’s heater or air conditioning to the ON position. Press the ENGINE START/STOP button on the dashboard one (1) time to turn OFF the ignition and remove the Access key from the vehicle. Activate the remote engine start and verify that the heater or air conditioning turns on to the preset setting for manual climate controlled vehicles or turns to the “Full Auto” setting for electronic climate control vehicles.

7. 15 MINUTE RUN TIME - Activate the remote engine start and allow the system to run for the 15 minute preset run time. The remote engine start should shut down after 15 minutes (+/- 10 seconds).

8. TRANSMITTER FUNCTIONALITY VERIFICATION - Activate the remote engine start using both of the supplied single button remote start transmitters.

FUNCTIONAL TESTING IS NOW COMPLETE.