Vehicle must be equipped with mechanical key start. Ensure vehicle does NOT have SMART KEY (PUSH BUTTON IGNITION SYSTEM).

Vehicle should be equipped with automatic transmission, power door locks, and power windows. If these features are not equipped on the vehicle, do not proceed with install.

Instructional Symbols / Definitions

- Denotes warnings that may lead to serious physical injury or vehicle damage
- Denotes quality processes to be checked prior to moving to the next step
- Denotes specific tools that are necessary to complete a step
- Denotes personal protective equipment (PPEs) that may be required for a step. Examples of safety equipment icons noted below:
  - Glasses
  - Gloves
  - Mask
  - Hearing Protection

Basic Required Tools

- Ratchet
- 10 mm Socket
- 12 mm Socket
- Extension
- Torque wrench
- #2 Phillips Screwdriver
- Wire Cutters
- Trim Removal Tool
- Clean Cloth
- 50/50 Isopropyl Alcohol (70%) and Water Mix

Technical Support

Authorized dealers use: (1) 855-225-7344
Hours: M-F - 9am~5pm Pacific Standard Time

Notes to the installer:
1. Read the entire Installation Instructions prior to beginning the installation of the part.
2. Make sure the vehicle is completely clean and dry in the area(s) the part is to be installed.
3. Ensure the vehicle is properly protected in the area(s) that the accessory is to be installed.
4. NEVER place tools on painted surfaces, seating surfaces, dash pad, console or floor carpet/mats.
5. Always wear appropriate personal protective equipment, including gloves, safety glasses, etc., when required.
6. Record radio presets prior to disconnecting battery power, if needed.
7. Ensure the transportation fuse is set to "ON" before starting the install.
8. Roll down the driver's window and adjust the power seats (if applicable) prior to disconnecting battery power, if needed.
9. To prevent stress on the remote start wire harness, ensure the tilt steering column is fully extended before installing the kit.
10. Vehicle must be at room temperature.
11. The order of the disassembly and reassembly steps have been optimized for maximum efficiency and the correct installation of the Remote Engine Start kit. Disassemble vehicle components (including harness connectors) and install the kit components according to each step, as indicated. Avoid disassembling or reassembling any components in advance to prevent unnecessary labor time and/or installation errors.

Vehicle Model: Elantra
Model Year: 2017
Part No.: F3F57 AC500
Language: English
Rev. Date: 6/21/2016

Accessory: Remote Engine Start - Key Start
Difficulty: (B)

Note: Difficulty stated above reflects the minimum level of expertise required to install the accessory:
(A) Customer
(B) Dealer Technician
(C) Master Technician or Specialist

Application Notes

Vehicle must be equipped with mechanical key start. Ensure vehicle does NOT have SMART KEY (PUSH BUTTON IGNITION SYSTEM).

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**Genuine Accessories**

### Kit Overview

1. **Control Module**
2. **Antenna Bracket**
3. **Antenna Harness**
4. **1 Way Transmitter Fob**
5. **Owner's Guide**
6. **Harness**
7. **Warning Label**
8. **Quick Reference Guide**
9. **Antenna Harness**
10. **Installation Guide**
11. **Wire Tie**

* Indicates extra components intentionally included in kit as spares.

Follow instructions for proper placement of each component.

### Hardware Kit Contents

<table>
<thead>
<tr>
<th>No.</th>
<th>Qty</th>
<th>Description</th>
<th>No.</th>
<th>Qty</th>
<th>Description</th>
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<td>8</td>
<td>1</td>
<td>Quick Reference Guide</td>
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<td>2</td>
<td>1 Way Transmitter Fob</td>
<td>10</td>
<td>1</td>
<td>Installation Guide</td>
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**Hardware Total:** 11

### Radio Presets - record customer preset frequencies if disconnecting battery power

<table>
<thead>
<tr>
<th>FM1</th>
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<th>FM4</th>
<th>FM5</th>
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<td>FM7</td>
<td>FM8</td>
<td>FM9</td>
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<td>AM1</td>
<td>AM2</td>
<td>AM3</td>
<td>AM4</td>
<td>AM5</td>
</tr>
<tr>
<td>SAT1</td>
<td>SAT2</td>
<td>SAT3</td>
<td>SAT4</td>
<td>SAT5</td>
</tr>
</tbody>
</table>

### Special Instructions

**Disconnecting Connectors**
When disconnecting connectors, grasp the connectors, not the wire.

**Locking Connectors**
When locking connectors, listen for a click indicating they are securely locked.
Remote Start Harness Connector Locations

- **Step 11**: CAN Connectors
- **Step 12**: Brake Connectors
- **Step 13**: Ground
- **Steps 7~10**: Ignition Connectors

Revision Date
06/21/2016
### Genuine Accessories

**1.** Open the Driver’s Door Window.
1. Move the Driver’s Seat to the rearmost position.
3. Record all pre-set radio stations (if applicable).
4. Pull the Hood Lever to open the Hood.

**2.** Disconnect and isolate the vehicle’s Negative Battery Cable.

**NOTICE**

**WARNING! Shock Hazard.** Do not touch vehicle’s negative battery terminal to vehicle’s positive battery terminal. Serious physical injury or electronic component damage may occur.

**3.** Trim Removal Tool

**4.** #2 Phillips Screwdriver and Trim Removal Tool

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**Dash End Cap Panel**

**Pressure Clips**

**Fuse Panel Cover**

---

**1.** Remove the fuse panel cover.
2. Gently pull the weather strip back from the dash area.
3. Using a trim removal tool, remove the driver’s side dash end cap panel by prying outward to disengage the five (5) Pressure clips.
4. Store the removed parts in a safe location for reinstallation.

**Caution: Do not damage the Dash Panel, Fuse Panel Cover or Dash End Cap. Make sure no pressure clips remain in the dash board.**

---

**1.** Using a Phillips Screwdriver, remove the two (2) phillips screws from the side of the lower dash panel as shown.
2. Using a Phillips Screwdriver, remove the one (1) phillips screw from the bottom of panel as shown.
3. Store the removed screws in a safe location for reinstallation.

**Caution: Do not damage the Lower Dash Panel.**
1. Release the Upper Steering Column Shroud, using trim removal tool to expose the two (2) screws.
2. By hand, dislodge the Lower Dash Panel.
3. Disconnect any Electrical Connectors from the Lower Dash Panel, if applicable.
4. Store the removed part in a safe location for reinstallation.

**NOTE:** To access screws, insert key and turn to the ACC position, in order to prevent steering wheel from locking.

Caution: Do not damage the Steering Column Shroud, Steering Wheel or Steering Column.
1. Unplug the Factory 6-Pin Female Connector from the Ignition Switch.
1. Plug the Factory 6-Pin Female Connector into the Remote Start 6-Pin Male Connector.
2. Plug the Remote Start Harness 6-Pin Female Connector into the Ignition Switch connector.
3. Make sure the Remote Start Harness is routed as shown.
1. Adjust the Remote Start Ignition Harness and Factory Ignition Harness as needed to make sure there are no rub or pinch areas or contact points with steering column components and the tilt mechanism / springs.

2. Make sure the steering column is fully extended / tilted up and locked in place before installing the wire ties.

3. Make sure the Remote Start Harness is routed as shown.

4. Using three (3) Wire Ties, secure the Remote Start Harness to the Factory Ignition Harness as shown.

5. Trim excess Wire Tie material.
1. Move the Steering Column through it's full range of motion to ensure that Remote Start Harness and Factory Harness do not interfere with vehicle components or make contact with sharp edges of steering column.

2. Make sure the steering column is fully extended / tilted up and locked in place.

NOTE

Move the Steering Column through it's full range of motion to ensure that Remote Start Harness and Factory Harness do not interfere with vehicle components or make contact with sharp edges of steering column. Make sure the Remote Start Harness and Factory Harness do not contact any sharp parts in the steering column, including the tilt mechanism springs.
1. Remove the 12 mm bolt from the upper left dash, just to the left of the air vent as shown.
2. Route the Ground Wire, across the front of the Fuse Box, as shown above, then up and over to the 12 mm Bolt hole.
3. Insert the 12 mm Bolt into the Ground Wire Ring Terminal, then reinstall.
4. Torque the 12 mm Bolt to: 16.7 ~ 21.6 N.m (1.7 ~ 2.2 kgf.m, 12.3 ~ 15.9 lb-ft).

---

**NOTE**

1. Route the 32-Pin CAN Connector and Harness behind the Fuse Box.
2. Locate the factory 32-Pin Female CAN-Connector, found on the back side of the Fuse box, as shown above.
3. Disconnect the 32-Pin CAN Connector from the back side of the Fuse Box.
4. Connect the corresponding Remote Start T-Harness Connector to the 32-Pin CAN Connector and Fuse Box (back side).
5. Using one (1) Wire Tie, secure the 32-Pin CAN Connector to Vehicle Harness as shown.
6. Trim excess Wire Tie material.

---

**CAUTION!** There is an identical type of 32-Pin Connector underneath the Fuse Box. Do not remove this connector.

---

1. Route to 4-Pin Brake Switch Connector and Harness across and behind the knee air bag and over to the Brake Switch.
2. Locate the Factory Female 4-Pin Connector, located on the Brake Switch as shown above.
3. Disconnect the Factory Female 4-Pin Connector from the Brake Switch and plug it into the corresponding Remote Start T-Harness Connector.
4. Plug the corresponding 4-Pin Remote Start Harness Connector into the Brake Switch.
5. Using a Wire Tie, secure the 4-Pin Brake Switch Connector to the Remote Start Harness and to the Factory Brake Switch Harness.
6. Trim excess Wire Tie material.

---

**CAUTION!** Route Brake Switch wire harness under steering column. Make sure there is adequate clearance between wire harness and steering components.

---

**NOTE**

1. Remove the 12 mm bolt from the upper left dash, just to the left of the air vent as shown.
2. Route the Ground Wire, across the front of the Fuse Box, as shown above, then up and over to the 12 mm Bolt hole.
3. Insert the 12 mm Bolt into the Ground Wire Ring Terminal, then reinstall.
4. Torque the 12 mm Bolt to: 16.7 ~ 21.6 N.m (1.7 ~ 2.2 kgf.m, 12.3 ~ 15.9 lb-ft).
1. Connect the 20-Pin Connector (black) to the Control Module.
2. Connect the 4-Pin Connector (black) to the Control Module.
3. Verify the following:
   a. Control Module is attached to Antenna Bracket.
   b. Both black 6-Pin connectors are attached to Antenna and Control Module.

**Wire Cutters**

1. Using two (2) Wire Ties, secure the Remote Start Ground Wire as shown.
2. Trim excess Wire Tie material.

**Ground Harness**

1. Using two (2) Wire Ties, secure the Remote Start Ground Wire as shown.
2. Trim excess Wire Tie material.

**NOTE**

Ensure that each Connector is fully seated in the Control Module and in the Antenna.

**Wire Ties**

1. Position the Control Module Assembly (Control Module + Antenna + Antenna Harness + Antenna Bracket) close to the Grommet on Bulkhead, as shown.
2. Using two (2) Wire Ties, secure the Control Module Assembly to left side of the Factory Harness as shown.
3. Trim excess Wire Tie material.

**Grommet on Bulkhead**

Ensure the Control Module Assembly is fully seated on the left of Factory Harness.
Ensure the Control Module Assembly does not interfere with the Steering Column Shaft.
17. Clean the left top surface of the Radiator Cover.
   - Ensure the surface is completely dry.
2. Remove the Adhesive Liner from the Warning Label, then secure
   the label to the Radiator Cover as shown.

**NOTE:**
Ensure the surface is completely dry before installing the Warning Label. Ensure the label is aligned straight with the edge of the Radiator Cover and without air bubbles under the label.

18. Ratchet, 10 mm Socket, Extension, and Torque Wrench

**NOTE:**
1. Reconnect the Negative Battery Cable. Torque to 4.0-6.0 N·m
   (0.4-0.6 kgf·m, 34.8-51.6 lb·in).
2. Make sure the Transportation Fuse is in the "ON" position.
3. Replace the weather strip at dash area to allow Driver's Door to close properly.
4. Close the Hood, Trunk and all Doors.
5. Test the LOCK / UNLOCK function using Factory Key Fob.

**NOTE:** If vehicle is not responding, carefully re-check all wiring connections. If the vehicle is still not responding, follow the Troubleshooting at the end of the instructions.

19. GO TO → Function Check

20. #2 Phillips Screwdriver

**NOTE:**
1. Reinstall all removed parts in reverse order of disassembly.
2. Place the Quick Reference Guide and the Owner’s Guide into the Glove Box.
3. Attach the Remote Start Fobs to each of the Factory Key Fob Rings.
## Remote Start Transmitter Fob Pairing Procedure

(Not necessary for new installations - only needed if fob is replaced)

### Note:
The remote start key Fobs come paired to the system from the factory, and should not require re-pairing.

Note: The remote engine start system can recognize up to three (3) remote Fobs; the kit includes two (2) remote Fobs. If a new Fob, or additional Fob is needed later, the Fob pairing process should be done with the original Fob or oldest available Fob.

### Procedure:

1. Open driver's door.
2. Insert the Key into the ignition.
3. Turn the key from OFF to ON position five (5) times within 5 seconds.
4. After step 2 within 5 seconds, press the button on the 1st Remote Start Fob one time.
5. After registering the 1st Remote Start Fob, within another 5 seconds, press the button on the 2nd Remote Start Fob one time.
6. Verify that both Fobs are functioning correctly by performing lock/unlock function.
Function Check

<table>
<thead>
<tr>
<th>Item to be Checked</th>
<th>Issue / Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Press button one time. (All doors, hood &amp; trunk are closed).</td>
<td>Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.</td>
</tr>
<tr>
<td>1. Press button two times.</td>
<td>Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and all doors will UNLOCK.</td>
</tr>
<tr>
<td>2. Press button two more times.</td>
<td>Transmitter Fob UNLOCK icon will flash, vehicle signal lights will flash, and all doors will UNLOCK.</td>
</tr>
<tr>
<td>1. Press button one time.</td>
<td>Transmitter Fob LOCK icon will flash, vehicle signal lights will flash, and all doors will LOCK.</td>
</tr>
<tr>
<td>2. Within 3 seconds, press and hold button for 2 seconds.</td>
<td>Transmitter Fob KEY icon will flash, the engine will crank and start, the vehicle signal lights will flash.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Press button two (2) times.</td>
<td>Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and Driver's door will UNLOCK.</td>
</tr>
<tr>
<td>2. Press button two (2) additional times.</td>
<td>Transmitter Fob UNLOCK icon flash, vehicle signal light flashes twice and All doors will UNLOCK.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Press brake pedal.</td>
<td>The engine will shut down immediately.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Press and hold button for two (2) seconds.</td>
<td>Transmitter Fob KEY icon will flash, and the engine will stop.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Open the hood.</td>
<td>The engine will stop.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Open any door.</td>
<td>The engine will stop after approximately thirty (30) seconds.</td>
</tr>
<tr>
<td>While the vehicle is running via remote start, 1. Open trunk.</td>
<td>The engine will stop after approximately fifty (50) seconds.</td>
</tr>
</tbody>
</table>

Troubleshooting

<table>
<thead>
<tr>
<th>Item to be Checked</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>The vehicle does not LOCK by using the Remote Start Fob.</td>
<td>Check the vehicle status: 1. Engine is OFF. 2. Accessory function is OFF. 3. All doors are closed. 4. Hood and Trunk are closed.</td>
</tr>
<tr>
<td>The vehicle LOCKS, UNLOCKS, but does not START (no cranking sound).</td>
<td>Ensure the Valet Mode is OFF. (Refer to Owner’s Guide for details.) Ensure that the buttons are properly activated. Buttons may not recognize a command if the LED icon light is still flashing. The installation might be faulty. Call Technical Support on Page 1.</td>
</tr>
<tr>
<td>The vehicle LOCKS, UNLOCKS, but does not START and there is CRANKING sound from the engine.</td>
<td>Check the vehicle battery is not dead. The installation might be faulty. Call Technical Support on Page 1.</td>
</tr>
<tr>
<td>The remote does NOT LOCK / UNLOCK and does not START the vehicle. The Remote LED lights flash when buttons are pressed.</td>
<td>The Transmitter Fob is not paired to the Control Module. Follow the Remote Start Fob Pairing Procedure in the Installation Instructions.</td>
</tr>
<tr>
<td>The LED icon lights on the Transmitter Fob does not light up.</td>
<td>The Transmitter Fob batteries are dead. Refer to the Owner's Manual for instructions to change the batteries.</td>
</tr>
<tr>
<td>The engine turns off when entering the vehicle, while running under Remote Start mode.</td>
<td>Vehicle will shut off automatically after thirty (30) seconds. If key is not in IGN ON position, as noted in the Owner's Manual in the &quot;Driving Off&quot; section. Verify the key is in the ignition ON position within 30 seconds after opening the doors. Verify the brake pedal is pressed after the key is in ignition ON position.</td>
</tr>
<tr>
<td>Engine does not turn off immediately when the brake pedal is pressed after starting engine with remote.</td>
<td>Verify Driving OFF Mode after remote starting. Engine does not turn off after Driving Off Mode even when the brake pedal is pressed. Verify the brake connector is correctly installed. (refer to Step 12).</td>
</tr>
</tbody>
</table>