SUBARU

INSTALLATION INSTRUCTIONS

SECURITY SYSTEM UPGRADE FORESTER P/N: H7110FS400

NOTE: This system requires prior installation of Keyless Entry System. If installing both systems at the same time, install the Keyless Entry System first.

Kit Contents:

1 Security Control Module w/Integral Bracket
1 Starter Interrupt Relay w/Integral Bracket
1 Extension Harness 1m (3 ft.)
1 M6 Nut
1 Wire tie
2 Window Decals
1 Installation Manual

Tools Required:

#1 Flat-tip Screwdriver
#2 Phillips Head Screwdriver (short)
Electrical Tape
1/4” Drive Ratchet
10-inch 1/4” Drive Extension
12mm Socket
10mm Socket

This device complies with FCC rules part 15. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference that may cause undesired operation.

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A. Pre-Installation Notes

1. **Vehicle Preparation**
   a. Lower the driver's side window to avoid inadvertently locking the keys in the vehicle during installation.
   b. Disconnect negative battery terminal to prevent accidental shorting of any power circuits.
2. **System Preparation**
   Remove the security module from the package and inspect for any physical damage.
3. **Shock Sensor Adjustment**
   The shock sensor adjustment knob is recessed inside the unit and is covered by a protective seal. This adjustment is PRESET at the factory.

B. Security Module Installation

1. Open the parking brake/tray cover which is shown in Figure 1.

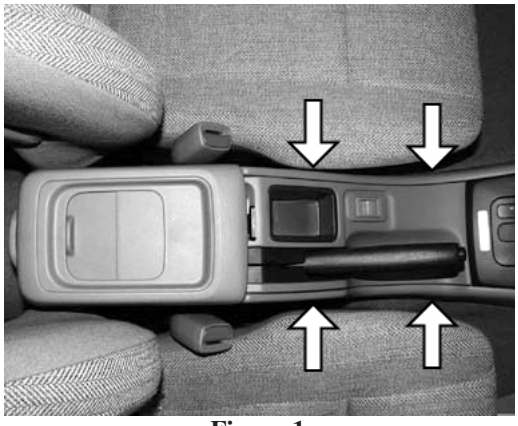

Figure 1

2. Remove the two screw caps and two screws indicated by the arrows in Figure 2 and disengage the four hooks indicated by the arrows in Figure 1.

3. If applicable disconnect the two harnesses (white housing and blue housing) on the parking brake cover, then remove the parking brake cover.

   NOTE: Depending on the vehicle type, your vehicle may not have these harnesses.

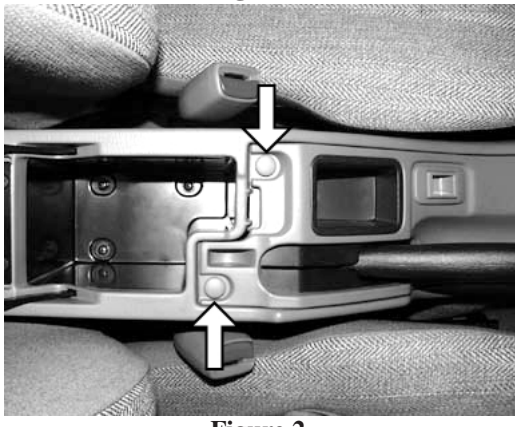

Figure 2

4. Remove the gearshift cover by pulling up in areas indicated by the arrows in Figure 3.
   a. For manual transmission, the shift knob must be removed by unscrewing.
   b. For automatic transmission, shifter must temporarily be placed into neutral.

   NOTE: The negative battery terminal will have to be reconnected and then disconnected to move the shifter into neutral.

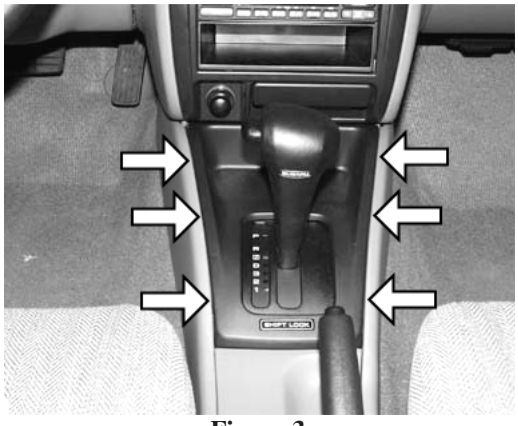

Figure 3

5. Remove and retain for reinstallation, the black M8 bolt indicated by the arrow “A” in Figure 4. Loosen the M8 bolt indicated by the arrow “B.”

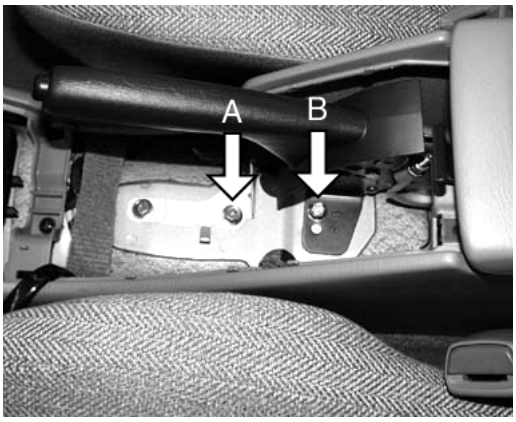

Figure 4

6. Route the male connector of the extension harness under the center console from the driver’s seat side. See Figure 5.

7. Insert the male connector of the extension harness into the security module 18-pin connector.

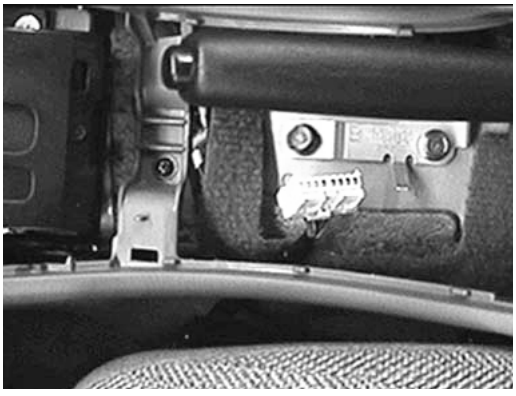

Figure 5

8. Install the security module onto the bolt indicated by the arrow “B” which was loosened in step 5, then tighten the bolts indicated by the arrows “A” and “B” to 13±3.6 ft. lbs. Refer to Figure 6.

   NOTE: The security module must be properly and firmly mounted. If it is not properly and firmly installed, the system’s shock sensor will not function as intended.

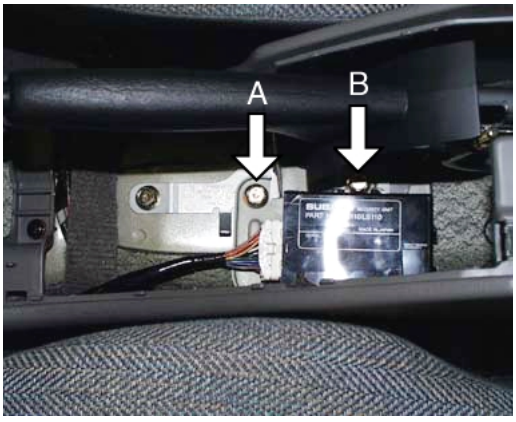

Figure 6

9. Remove one plastic screw and two metal screws indicated by the arrows in Figure 7, then remove the lower dash panel by pulling the upper side of the lower dash panel toward you.

10. Disconnect the four harnesses (two white housings, one brown housing and one black housing) on the lower dash panel. Then, completely remove the lower dash panel.

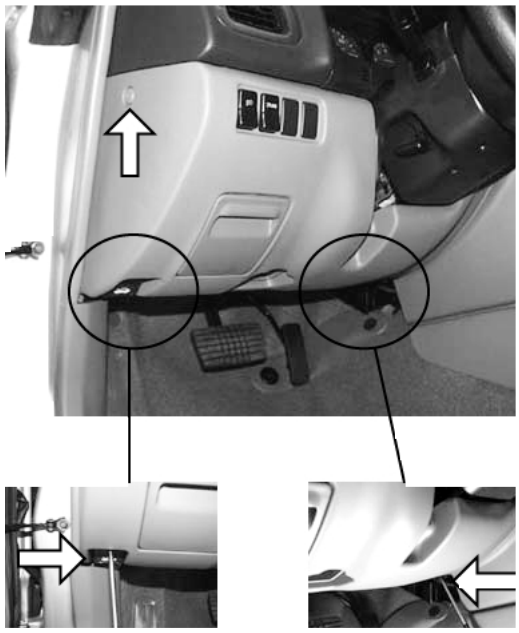

Figure 7

NOTE: To detach the black housing, insert a slotted screwdriver as shown in Figure 8 and lift up the black housing. The black housing can be detached easily.

Figure 8

11. Locate the security module 18-pin (white housing) connector which is located at the inner right side (Next to the center console). See Figure 9.

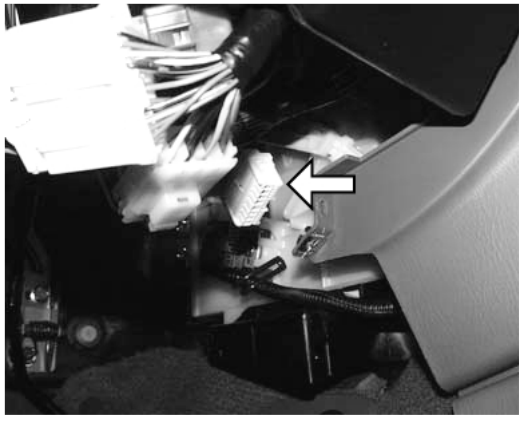

Figure 9

12. As shown in Figure 10, insert the female connector of the extension harness into the security module 18-pin (white housing) connector.
    Push the extension harness into under the center console. Take care not to damage the extension harness.

13. Make sure that the harness is not being pintched or is not touching any sharp sheet metal. Then, securely fix the harness to the other vehicle near by harnesses using the supplied wire tie.

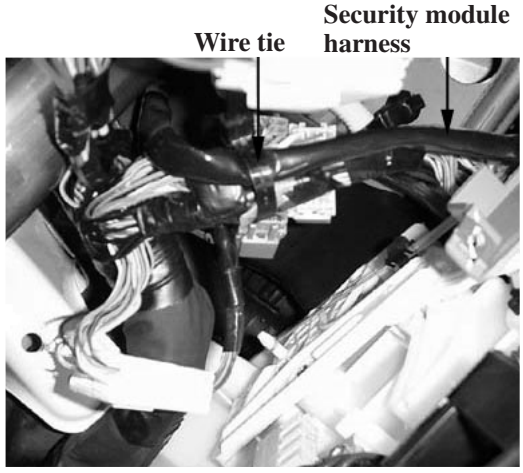

Figure 10

C. Starter Interrupt Installation

1. Locate the starter interrupt 6-pin (white housing) connector, which is located next to the right side of the fuse box. See Figure 1.

2. Detach the jumper connector from the fixing tape, disconnect it from the connector and discard. Then insert the starter interrupt relay into the connector.

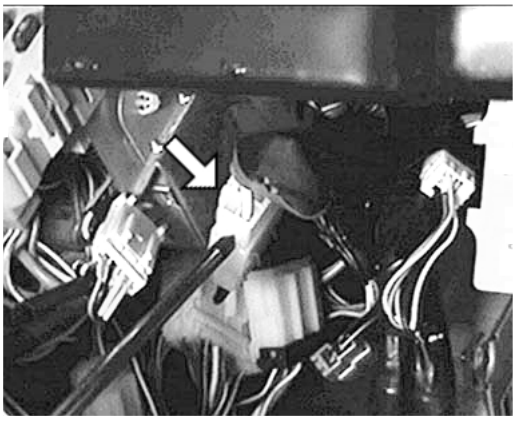

Figure 1

3. Install the relay bracket onto the stud with the M6 nut indicated by the arrow in Figure 2. The stud is located behind the fuse box.

   NOTE: When installing the starter interrupt relay, take care not to touch the harnesses in the vicinity of the stud by slightly rotating the bracket.

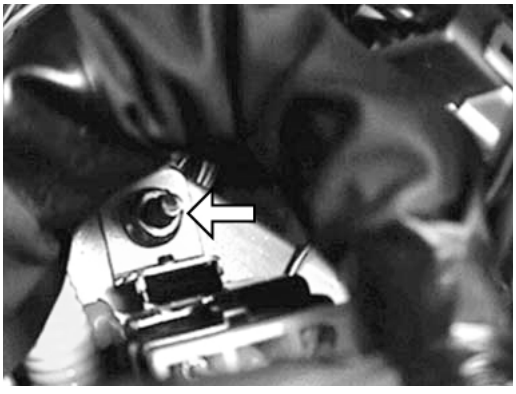

Figure 2

D. Prior to System Test

1. Reconnect negative battery terminal.

E. System Test

1. Exit the vehicle and close all doors.
2. Depress the LOCK/ARM button on the remote and the following should be observed:
   a. All vehicle doors will lock.
   b. The parking lights will flash once and the horn will chirp once.
   c. Status indicator (LED) will begin to flash 1x per 2 seconds.
3. Wait 5 seconds then depress the UNLOCK/DISARM button on the remote and the following should be observed:
   a. The driver's door will unlock.
   b. The parking lights will flash twice and the horn will chirp twice.
   c. The status indicator (LED) will stop flashing.
4. Wait 5 seconds then depress the UNLOCK/DISARM button on the remote and the following should be observed:
   a. All doors will unlock.
5. Depress the LOCK/ARM button on the remote to enter the armed mode.
6. Wait 5 seconds then, using the key, open a door or rear hatch (vehicle hood is not protected) and the following should be observed:
   a. The horn will start to sound 1x per second.
   b. The parking lights will flash 1x per second.
   c. The status indicator (LED) will begin to flash 2x per second.
7. With the alarm sounding, attempt to start the engine. The engine should not start.
   a. If the engine starts, ensure that the starter interrupt relay is properly installed.

F. Valet Mode Test

1. Open the driver's door and then depress and hold the UNLOCK/DISARM button on the remote for more than two seconds and the following should be observed:
   a. The status indicator (LED) will begin flashing 2x per second indicating that the alarm is in the valet mode.
2. Close all doors.
3. Depress the LOCK/ARM button on the remote and the following should be observed:
   a. All vehicle doors will lock.
   b. The horn will chirp once.
   c. Parking lights will not flash.
   d. The status indicator (LED) will continue to flash 2x per second indicating that the alarm is in the valet mode.
4. Wait 5 seconds then, using the key, open a door or the rear hatch and THE ALARM SHOULD NOT TRIGGER.

5. Depress the UNLOCK/DISARM button and the driver's door should unlock.
6. Open the driver's door and then depress and hold the UNLOCK/DISARM on the remote for more than 2 seconds and the following should be observed:
   a. The status indicator (LED) will stop flashing indicating that the alarm is now out of valet mode and has returned to normal operation.
   b. All the doors will unlock.

G. Shock Sensor Test

1. Lower the driver's side window then close all doors.
2. Depress the LOCK/ARM button on the remote to enter the armed mode.
3. Wait 5 seconds, then reach through the window and lightly strike the rim of the steering column (DO NOT hit the horn or AIR BAG!) and the following should be observed:
   a. The horn will chirp 2 times.
   b. The parking lights will flash 2 times.

NOTE: This is shock sensor warning mode. For light vibrations and/or impacts, only warning chirps are delivered.

4. Wait 10 seconds, then again reach through the window and firmly strike the rim of the steering column (DO NOT hit the horn or air bag!) and the alarm should trigger.

NOTE: If shock sensor sensitivity is too high or too low, the sensitivity may be adjusted by following the procedure section I.

5. Depress the UNLOCK/DISARM button on the remote transmitter to deactivate.

H. Notes on System Operation

1. If the alarm is not deactivated within 30 seconds of triggering, the system will automatically reset.
2. The hood is not protected as a part of this system and therefore will not cause a triggering of the alarm when opened unless sufficient force is used in which case the shock sensor will trigger the alarm.
3. When accessing Valet mode, be sure to open the driver's door in order for the feature to function properly.
4. The shock sensor has two levels, warning and alarm. In warning mode (light shock) the alarm will not trigger but instead will give two horn chirps and two light flashes. This is a feature of the system and is not to be regarded as a malfunction. Only in alarm mode (heavy impact) will the alarm be triggered.
5. The alarm will automatically reset after 30 seconds.
6. When deactivating, the system will indicate an alarm occurred during the armed cycle by the following:
   a. The horn will chirp 4x.
   b. The lights will flash 4x.
7. If any secured opening is open at the time of depressing LOCK/ARM on the remote transmitter, the horn will chirp 3 times indicating that all openings have not been properly closed. Upon closing, all doors and rear hatch will lock automatically.

I. Shock Sensor Adjustment-ONLY IF REQUIRED

The factory has preset the sensitivity of the shock sensor at the time of manufacture. Under normal circumstances the sensitivity should not require any adjustment and should be left untouched. However, in the unlikely event that adjustment is required, please follow the steps outlined below.

1. Carefully remove the seal covering the shock sensor adjustment hole on the top of the security module.
2. Using a #0 flat-tip screwdriver, CAREFULLY AND GENTLY adjust the sensitivity.

   CW (clockwise) –INCREASES sensitivity
   CCW (counterclockwise) –DECREASES sensitivity

3. With each adjustment of the control, repeat section I. Shock Sensor Test, to determine if the desired sensitivity has been reached.

   CAUTION: DO NOT make the sensitivity of the unit overly sensitive. Too high a sensitivity setting will result in false alarms and provides no relative increase in the overall measure of security.

4. Upon completion of the sensitivity adjustment, place a small piece of electrical tape over the sensitivity adjustment hole to prevent dust and/or other foreign material from entering the unit.

J. Finishing the Installation

1. Reverse steps 1, 2, 3, 4, 9 and 10 in section B.
2. Place the window decals on the inside of the rear passenger windows at the lower-front edge of each window. The bottom edge of the decal should be one (1) inch from the bottom of the window, and the front edge of the decal should be one (1) inch from the front of the window. Make sure that the window is clean and the decal is square and straight before adhering to the window.

   Installation is now complete.