



SECURITY SYSTEM SMART SIREN AND SMART SIREN II KITS

J03843

2009-08-14

GENERAL

Kit Numbers

68352-04B, 68352-06B, 69033-09

Models

For model fitment information, see the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only).

Additional Parts Required

The motorcycle must be equipped with a Harley-Davidson® Factory Security System before this kit can be installed. See the P&A retail catalog or the Parts and Accessories section of www.harley-davidson.com (English only) for Factory Security Systems and model fitment information.

Kit Contents

See [Figure 7](#) and [Table 1](#).

PREPARATION

1. Refer to **POWER DISCONNECT** in the owner's manual and follow the instructions to prevent the security module from actuating the siren.

WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative (-) cable first) before proceeding. (00307a)

WARNING

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00049a)

2. Refer to the owner's manual and follow the instructions to remove the seat and disconnect the battery cables, negative (-) cable first. Retain all seat mounting hardware.

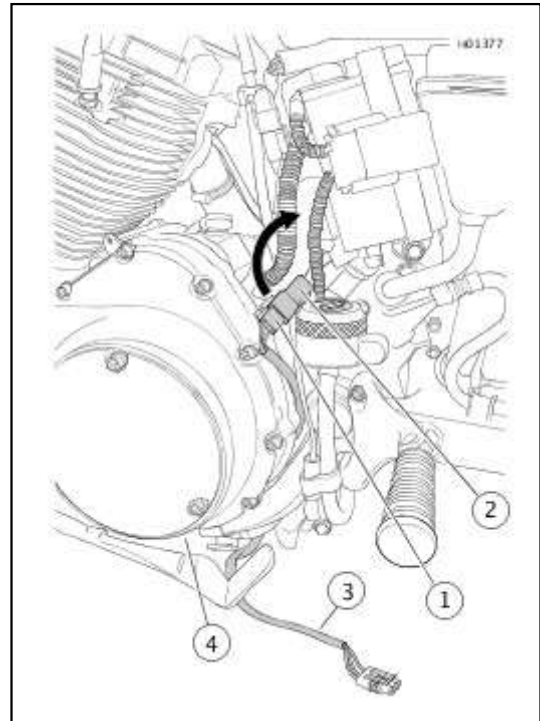
NOTE

For 2004 and later Sportster® models, the negative battery cable is most easily disconnected **at the engine crankcase**.

3. Remove the battery from the vehicle.

INSTALLATION

1. See [Figure 1](#). Locate the siren connector (2) on the main harness, behind the harness shield forward of the battery location. It is covered by a dust cap. Pull the dust cap from the connector, and feed the connector downward and out from behind the shield.
2. Select the correct siren harness (3) for this model year vehicle from the kit. Route the three-pin connector (1) of the siren harness from the bottom of the motorcycle, between the primary cover and frame tube. Plug the connector into the siren harness connector (2) on the vehicle main harness.



[VIEW INTERACTIVE IMAGE](#)

1. Three-pin connector on siren harness.
2. Three-pin connector [142B] on vehicle harness.
3. Siren harness.
4. Frame rear crossmember (not visible).

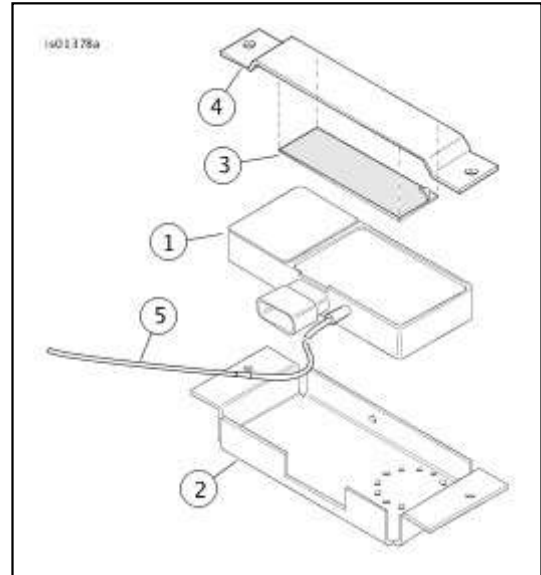
Figure 1. Connect the Siren Harness to the Vehicle Harness

- Secure the connectors to the diagnostic harness using a cable strap from the kit. Route the long lead of the siren harness over the frame rear crossmember (4).

NOTE

Route the siren harness away from moving parts, sharp edges, hot areas and out of sight as much as possible.

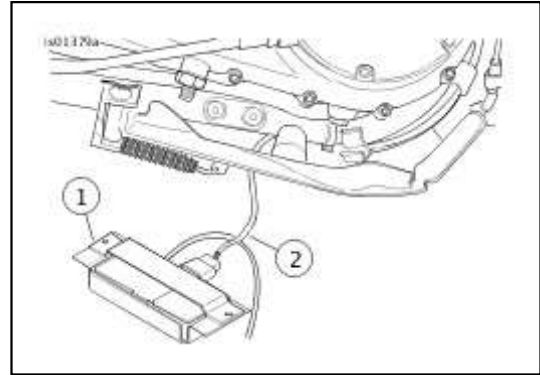
- See [Figure 2](#). Install the siren (1) with the sounder disc aligning with the holes in the lower bracket (2). **For siren with antenna (shown):** Route the siren antenna wire (5) out through the cutout in the bracket, alongside the connector. **ALL sirens:** Seat the siren fully into the bracket.



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1. Siren.
2. Lower siren bracket.
3. Foam tape.
4. Upper siren bracket.
5. Siren antenna.

Figure 2. Assemble the Siren and Brackets



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1. Siren.
2. Siren harness.

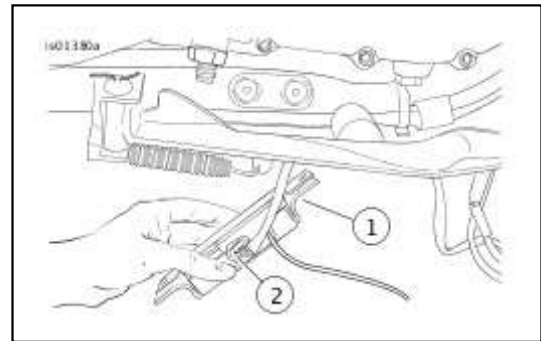
Figure 3. Connect the Siren to the Harness

5. Remove the paper backing from the foam tape (3), and apply the tape to the underside of the upper bracket (4), centered as shown.
6. See [Figure 3](#). Connect the long lead of the siren harness (2) to the siren (1).
7. See [Figure 4](#). Position the siren and bracket assembly (1) so that the connector (2) is facing toward the left side of the motorcycle. Insert the rear of the assembly over the rear frame crossmember, and slide the assembly to the rear until the front of the brackets clear the front crossmember. Swing the front of the brackets up so that the upper and lower bracket flanges are above the front crossmember. Slide the brackets forward and allow the bracket flanges to rest on the crossmembers.

NOTE

Keep the siren harness away from moving parts, sharp edges, and hot areas, and out of sight as much as possible.

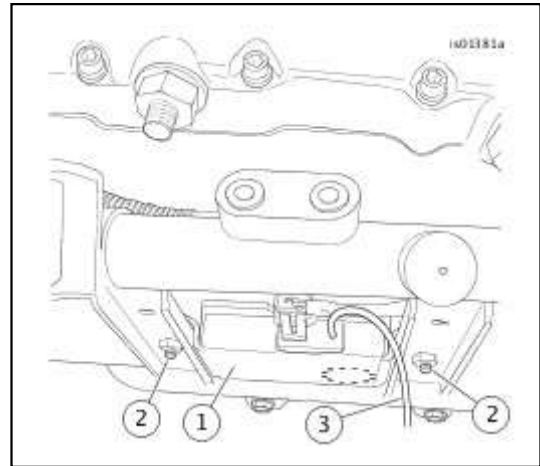
For siren with antenna (shown): Do not secure the siren antenna (3) with the harness. Allow the antenna to hang free.



VIEW INTERACTIVE IMAGE

1. Siren and bracket assembly.
2. Three-pin siren connector.

Figure 4. Install the Siren and Bracket Assembly



VIEW INTERACTIVE IMAGE

1. Siren and brackets.
2. Hex head cap screw and nut (2).
3. Siren antenna.

Figure 5. Secure the Siren and Brackets to the Frame

8. **ALL sirens:** Push the harness into the opening, and secure the harness to the frame using cable straps from the kit.

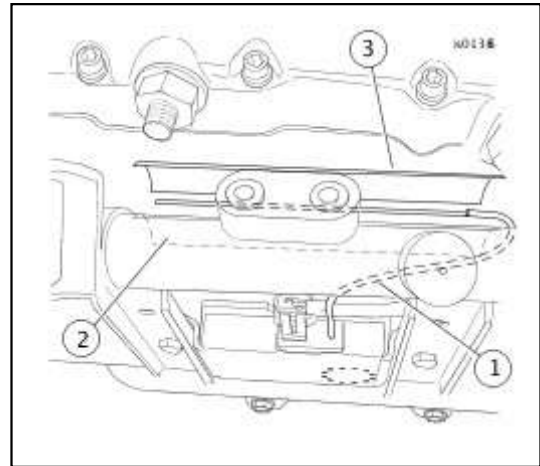
NOTE

For ease in assembly and increased clearance, insert the cap screws through the brackets and frame crossmembers from the top.

9. See [Figure 5](#). Align the siren bracket mounting holes with the rightmost set of holes in the frame crossmembers. Secure the brackets using the two hex head cap screws and lock nuts from the kit.

10. **For siren WITHOUT antenna:** Continue after step 18.

For siren WITH antenna: Clean the top and inside surface of the left-side frame tube with a mixture of 50-70% isopropyl alcohol and 30-50% water. Allow to dry thoroughly.



VIEW INTERACTIVE IMAGE

- 1. Siren antenna.
- 2. Adhesive-backed hook fastener.
- 3. Plain-backed loop fastener.

Figure 6. Secure the Siren Antenna to the Frame

11. See [Figure 6](#). Get the adhesive-backed hook fastener (2) from the kit. Peel the paper backing from the fastener adhesive, and attach the fastener to the cleaned area of the frame tube.

12. Lay the siren antenna wire (1) down the center of the installed fastener half, and straighten the antenna along the length of the fastener.

NOTE

In order for the antenna to work properly, none of the small diameter portion should touch the metal parts of the vehicle.

13. Get the plain-backed loop fastener (3) from the kit. Install the loop fastener onto the hook fastener installed on the frame tube, capturing the antenna wire to hold it firmly in place.

14. Install a cable strap from the kit around the frame tube, about 6 mm (¼ in) in from each end of the hook-and-loop fastener to hold it in place.

NOTE

Verify that the ignition key switch is in the OFF position **before** installing the main fuse and attaching the battery cables.

15. **For ALL sirens:** Refer to the owner's manual and follow the instructions to do the following:
a. Install the battery into the vehicle.

b. Apply a light coat of Harley-Davidson electrical contact lubricant (H-D Part No. 99861-02), petroleum jelly or corrosion retardant material to the battery terminals.

⚠ WARNING

Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a)

NOTICE

Do not over-tighten bolts on battery terminals. Use recommended torque values. Over-tightening battery terminal bolts could result in damage to battery terminals. (00216a)

16. Connect the battery cables (positive cable first).

17. Connect the main fuse. Install the left-side cover.

⚠ WARNING

After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)

18. Refer to the owner's manual, and follow instructions to install the seat.

NOTE

The siren may not function properly when first installed. Nickel metal hydride (NiMH) rechargeable batteries discharge fairly rapidly when stored. They will lose as much as 1%-2% of their charge per day, and after a few months of storage at room temperature will be mostly discharged. If stored for a very long period without charging, they may need a few charging cycles to regain their full capacity.

To charge the NiMH battery, operate the motorcycle for a minimum of four hours.

SIREN DIAGNOSTICS

- If the siren is armed and the internal siren battery is dead, shorted, disconnected, or has been charging for a period longer than 24 hours, the siren will respond with three chirps on arming instead of two.
- The internal siren battery may not charge if the vehicle's charging system is producing less than 12.5 volts.
- If the siren does not chirp two or three times on a valid arming command from the security system, the siren is either in chirpless mode, not connected, not working, or the siren wiring was opened or shorted while the siren was disarmed.
- If the siren enters the self-driven mode where it is powered from the siren's internal 9 volt battery, the turn signal lamps may or may not alternately flash. If the security system activates the siren, the turn signal lamps will

alternately flash. If the siren has been armed and a security event occurs, and the siren is in self-driven mode, the siren will alarm for 20-30 seconds and then turn off for 5-10 seconds. This alarm cycle will be repeated ten times if the siren is in the self-driven mode.

BATTERY REPLACEMENT

The siren's internal 9 volt battery is rechargeable and does not need to be replaced on a regular basis. Battery life under normal conditions is approximately three to six years.

NOTE

When battery replacement is needed, only a **nickel metal hydride (NiMH) 9 volt battery** should be used in the siren. These are widely available at local battery outlets.

To Replace the Battery:

1. Refer to **POWER DISCONNECT** in the owner's manual and follow the instructions to prevent the security module from actuating the siren.
2. Remove the siren box from the vehicle. Refer to the siren installation procedures in this instruction sheet.
3. Open the battery cover by inserting a flat-blade screwdriver into one of the slots on the side of the siren box. Press until one corner of the cover pops up slightly.
4. Insert the screwdriver into the second slot, and press until the cover pops open. Remove the cover and gasket.
5. Remove the old battery from the siren box, and gently unfasten the snap connector from the battery. Save the grease coating the terminals.
6. Coat the terminals of the snap connector and the **new** NiMH nine-volt battery completely with the grease from the old connection.

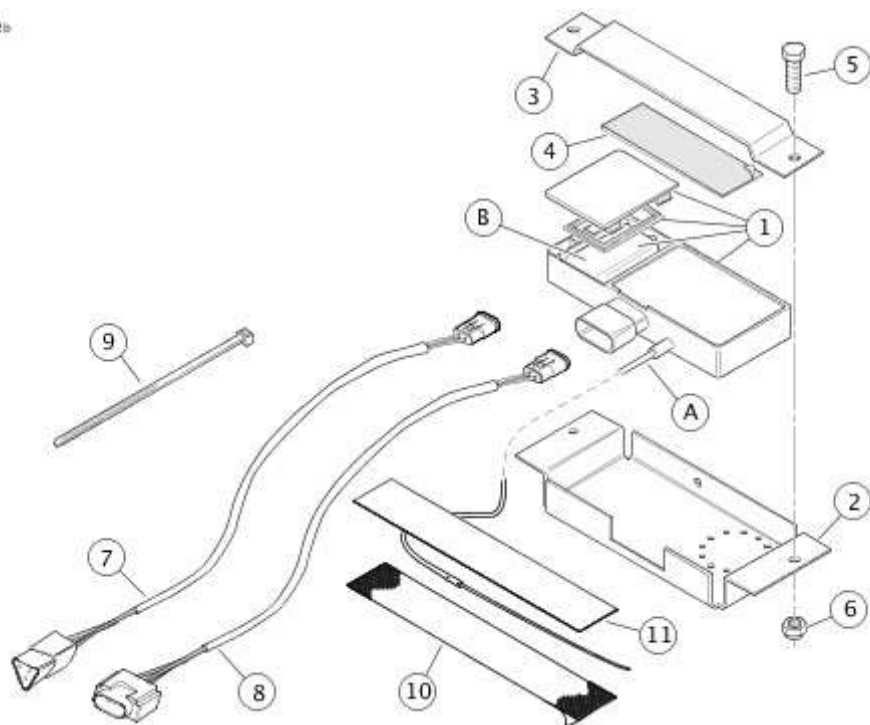
NOTE

If not enough lubricant remains to completely cover the terminals, Electrical Contact Lubricant (H-D Part No. 99861-02) is compatible, and is available from a Harley-Davidson dealer

7. Snap the connector onto the new battery, and install the battery into the siren box.
8. Set the siren box on a work surface with the battery opening facing up. Position the gasket and battery cover onto the siren box with the rounded corners facing out.
9. Press the cover down onto the siren box and press the tabs in with the screwdriver until the tabs snap into the slots in the box.
10. Install the siren box into the vehicle.
11. Dispose of the old NiMH battery in accordance with local regulations.

SERVICE PARTS

ra01382b



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Figure 7. Service Parts, Smart Siren and Smart Siren II Kits

Table 1. Service Parts

ITEM	DESCRIPTION (QUANTITY)	PART NUMBER
1	Smart Siren, security system (without antenna, item A)	68958-07C
	Smart Siren II, security system (with antenna, item A)	68970-06A
2	Siren bracket, lower	70474-04A
3	Siren bracket, upper	70498-08
4	Foam tape	70499-08
5	Cap screw, hex head, 5/16-18 x 19 mm (¾ in) long (2)	3987
6	Lock nut, hex, 5/16-18, with Nylon insert (2)	94028-92T
7	Harness, siren (2004 and 2005 models)	91702-04
8	Harness, siren (2006 and later models)	91734-06
9	Cable strap (7)	10140
10	Hook fastener, adhesive-backed, 210 x 38 mm (x in). For kit 68352-06B only.	Not sold separately
11	Loop fastener, plain-backed, 210 x 38 mm (x in). For kit 68352-06B only.	59274-01

ITEM	DESCRIPTION (QUANTITY)	PART NUMBER
Items mentioned in text:		
A	Antenna, Smart Siren II	
B	Battery, 9 volt NiMH (purchase locally)	