



SECURITY SYSTEM

Components

The security system consists of a control module, a hands-free antenna mounted on the motorcycle and a hands-free fob carried by the rider. The vehicle shall provide Audible and Visual notification for Armed and Audible notification when the security is Disarmed.

See SECURITY SYSTEM, Arming and Disarming.

Options

See a Harley-Davidson dealer or www.harley-davidson.com for security system options.

SECURITY STATUS INDICATOR

- **Armed:** The turn signals will flash simultaneously to indicate the system has been armed
- **Disarmed:** When the system disarms, the siren chirps once (if the vehicle is chirp enabled)
- **Warning:** There will be two sequences of flashes occurring four seconds apart in a warning or alarm state. The system is still armed.
- **Alarm:** There will be a continuous sequence of flashes occurring two seconds apart when the system is in alarm state.
- **Service:** See a Harley-Davidson dealer if the lamp remains lit continuously.



Figure 1 Odometer Window

ARMING AND DISARMING

Armed

When the motorcycle is parked, motionless and the ignition switch set to OFF, the security system arms automatically after about 5 seconds. Whether the fob is present or not, the system will arm.

On arming, the turn signals flash twice and the siren (if equipped and in chirp mode) chirps twice. While armed.

Disarmed

Fob: An armed security system is automatically disarmed when



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the fob is present, and the ignition switch is set to IGNITION.

NOTE

Movement like lifting the motorcycle off of its jiffy stand or a NO FOB condition, will cause the system to electronically seek the presence of the fob. If the fob is present, the system disarms.

See OPERATION, Instruments.

When the system disarms, the siren (if equipped and in chirp mode) chirps once.

Once disarmed, the rider can ride or move the motorcycle for parking, storage or service without setting off the alarm.

Personal Identification Number (PIN): If the fob is misplaced or if the fob fails to communicate, the system can be disarmed with the Personal Identification Number (PIN). Refer to SECURITY SYSTEM, Personal Identification Number (PIN).

ALARM Warnings

Once armed if the motorcycle is moved or lifted off of its jiffy stand and the fob is not present, the alarm will warn the operator with two sequence of three alternate flashes of the turn signals and a chirp of the siren (if equipped). Within four seconds, if the motorcycle is back on its jiffy stand and no further motion is detected, the system will remain armed without activating the alarm.

If the motorcycle motion continues, the system will issue a second warning a few seconds after the first.

NOTE

During warnings and alarms, the starter motor and the ignition

circuits remain disabled.

Alarm Activation

If the security system is still detecting motion after a second warning, the system will activate the alarm.

When activated, the security system will:

- Alternately flash the four turn signals.
- Sound the siren (if equipped).

Duration: If motorcycle motion is detected the system will repeat the 30 second alarm and will continue to check for motion. The alarm will repeat this 30 second alarm cycle for 5 minutes (10 cycles) or until no more motion is detected. The alarm will then deactivate.

NOTE

The alarm will also activate the LED, vibration or audible modes of an optionally purchased Harley-Davidson Security Pager. See a Harley-Davidson dealer for details.

Alarm Deactivation

Key fob: Bring the fob to the motorcycle. After the module identifies that the fob is present, the system will terminate the alarm.

PERSONAL IDENTIFICATION NUMBER (PIN)

If the fob is misplaced or fails, a personal identification number (PIN) can disarm the security system. The dealership assigns the initial PIN.

Disarming with a PIN

NOTE

If a mistake is made while entering the PIN, turn ignition OFF



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then back to IGNITION before another attempt.

1. See Figure 8. To enter the PIN, turn the ignition switch to IGNITION. The odometer window displays ENTER PIN.
2. Press and release the left turn signal. The first digit space flashes.
3. Input five digits of the PIN.
 - a. Increment the digit by tapping the left turn signal until the odometer window displays the first digit of the PIN.
 - b. Press right turn switch 1 time to move to the second digit.
 - c. Repeat until all five digits of the PIN have been entered.

NOTES

- *If the digit cycles past 9, the digit starts over at 1.*
- *If any of the digits do not match assigned PIN, the security system is activated.*

4. The vehicle is disarmed and ready to start.

Security

Changing the PIN

The dealership sets a temporary PIN when they are setting up the motorcycle for delivery. The owner can change the PIN at any time.

1. Select a five-digit number (1-9, no zeros).
2. With an assigned fob present, cycle to the ENTER PIN prompt in the odometer window.
 - a. See Figure 8. Cycle the ignition switch twice: IGNITION-OFF-IGNITION-OFF-IGNITION.
 - b. Press and release the left turn signal switch two times. (ENTER PIN will scroll through the odometer window)
 - c. Press right turn signal switch one time and release (Turn signals will flash three times. Current PIN will appear in odometer. The first digit will be flashing.)

- d. Enter first digit of new PIN by pressing and releasing the left turn signal switch until the selected digit appears.
 - e. Press right turn signal switch one time and release (the new digit will replace the current in the odometer window)
 - f. Repeat until all five digits have been entered

3. Turn the OFF/RUN switch OFF, then turn the ignition switch to OFF.

FCC REGULATIONS: KEY FOB

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

SECURITY SYSTEM FOB

Assigning Fob

Key fobs are electronically assigned to the security system by a Harley-Davidson dealer. Only two fobs can be assigned at any one time. Purchase replacement fobs from a Harley-Davidson dealer. The fobs can only be assigned to an individual motorcycle by a trained Harley-Davidson technician. Security

The module will arm only if the fob has been assigned by a Harley-Davidson dealer and a Personal Identification



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Number (PIN) has been entered in the system. Record the PIN on the Personal Information page in the front of this Owner's Manual and on the removable wallet card.

- *If the fob is misplaced or fails, the rider can refer to the wallet card and use the PIN to manually disarm the system. See SECURITY SYSTEM, Arming and Disarming and SECURITY SYSTEM, Troubleshooting.*
- *The rider can change the PIN at any time. See SECURITY SYSTEM, Personal Identification Number (PIN).*

Fob Battery

Replace the fob battery every year.

NOTES

- *The reusable label found on the fob packaging lists the serial number of the fob. For reference, affix the label to a blank "NOTES" page in this Owner's Manual.*
 - *See Figure 10. The serial number of the fob is also found on the inside of the fob.*
1. See Figure 10. To open the fob, turn a thin blade in the slot (1).
 2. Remove the battery (2) and discard in accordance with local regulations.
 3. Install a **new** battery (Panasonic 1632 or equivalent) with the positive side down.
 4. Align the two halves of the fob. Snap the halves together.

Riding with a Fob

- Always carry the fob when riding, loading, fueling, moving, parking or servicing the motorcycle.
- Do not leave the fob attached to the handlebars or store the fob in a luggage compartment. Unintentionally leaving the fob with the motorcycle when it is parked prevents the system from activating the alarm.

- Do not ride with the fob stored in a metal case or with the fob closer than 76 mm (3.0 in) to a mobile phone, PDA, display or other electronic device. Any electromagnetic interference may prevent the fob from disarming the system.
- For added security, always lock the fork and remove the key when parked. If the fob is within range and the motorcycle is unlocked, tampering with the motorcycle will not activate the alarm.

Riding without a Fob

If the motorcycle is ridden without the fob in acceptable proximity,

The Display screen will temporarily displays "NO FOB."

To restart a motorcycle without a fob, disarm the security system with the PIN.

TRANSPORT MODE

It is possible to arm the security system without enabling the motion detector for one ignition cycle. The motorcycle can be moved in an armed state. The motorcycle cannot be turned on or started while in transport mode until the fob is present.

To Enter Transport Mode

1. With security fob present, set the ignition switch to IGNITION.
2. Set the ignition switch to OFF and within 3 seconds.
3. Press and hold left turn + FTP switch for > 1 second.
4. Following a single flash, the turn signals flash three times to indicate that the system is armed in transport mode.

To Exit Transport Mode



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With the fob present, set the ignition switch to ignition to disarm the system and exit transport mode.

STORAGE AND SERVICE DEPARTMENTS

Long-Term Parking

To maintain arming, store the fob beyond the range of the antenna. The antenna range is approximately 1.5 m (5 ft). Have the fob present before moving

If the motorcycle will not be operated for several months, such as during the winter season, see AFTER RIDING, Storing Motorcycle.

Service Departments

When the motorcycle is left at a Harley-Davidson dealer, there are two options:

1. Leave an assigned fob with the dealer.
2. To maintain possession of the fob, ask the dealer to disable the system for service (service mode) before leaving the dealership.

SIREN (IF EQUIPPED)

Chirp Mode

Vehicles with a siren can be set to chirp upon arming and disarming.

In chirp mode, the siren sounds two chirps when arming, and a single chirp when disarming.

Chirpless Mode

In chirpless mode, the siren does not chirp on arming or disarming.

The siren still provides warning chirps and sounds the alarm if the motorcycle is moved without the fob present.

Switching Modes

Perform the following to switch between chirp and chirpless modes.

1. With security fob present, set the ignition switch to IGNITION.
2. When the security lamp turns off, set the ignition switch to OFF.
3. When the security lamp turns off (but before the turn signals flash twice), immediately set the ignition switch to IGNITION.
4. When the security lamp turns off, immediately set the ignition switch to OFF.
5. When the security lamp turns off (but before the turn signals flash twice), immediately set the ignition switch to IGNITION. The system changes mode. The siren chirps or remains silent accordingly.

Disconnecting Power

To disconnect the battery or remove the main fuse and prevent the siren from sounding.

1. Verify that the fob is present.
2. Set the ignition switch
3. Pull the main fuse from its holder or disconnect the battery.

NOTE

Set the ignition switch to OFF before installing main fuse.



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TROUBLESHOOTING

Security Lamp

If the security lamp stays illuminated while riding, see a Harley-Davidson dealer.

Fob

If the security system continues to actuate warnings and alarms

with the fob present, check for:

1. **Electromagnetic interference:** Other electronic devices, power lines, or other electromagnetic sources can cause the security system to operate inconsistently.
 - a. Verify that the fob is not in a metal enclosure or within 76 mm (3.0 in) of any other electronic devices.
 - b. Place the fob on the seat and set the ignition switch to IGNITION. After the system disarms, return the fob to a convenient location.
 - c. Move motorcycle at least 5 m (15 ft) from the spot of interference.
2. **Discharged fob battery:** Use the PIN to disarm the system. Replace the battery. See SECURITY SYSTEM, Security System Fob.
3. **Damaged fob:** Use the PIN to disarm the motorcycle. Replacement fobs are available for purchase from a Harley-Davidson dealer.

Siren (If equipped)

- If the siren does not chirp two or three times on a valid arming command from the security module, the siren is either in the Chirpless Mode, not connected, not working,

or the siren wiring was opened or shorted while the siren was disarmed.

- 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 battery is less than 12.5 volts.
- 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 module activates the siren, the turn signal lamps will alternately flash. If the siren has been occurs, and the siren is in self-driven mode, the siren will alarm 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.

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Manual Addendum

Country	Street Security System
Australia	
Belarus	
Brazil	Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário
European Union	See EC Declaration of Conformity (Exhibit A)
Indonesia	
Israel	



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Jordan	
Malaysia	
Mexico	
Morocco	
Oman	
Philippines	



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Qatar		
Republic of Korea		
Russia		
Singapore		
South Africa		



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Taiwan	
United Arab Emirates	
Ukraine	
Canada	<p>IC ID: 21274-LM43F</p> <p>This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:</p> <ol style="list-style-type: none">1. This device may not cause interference.2. This device must accept any interference, including interference that may cause undesired operation of the device. <p>L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:</p> <ol style="list-style-type: none">1. L'appareil ne doit pas produire de brouillage;2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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United States	<p>FCC ID: 2AHJZ-LM43F</p> <p>Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment</p> <p>NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.</p> <p>However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none">○ Reorient or relocate the receiving antenna.○ Increase the separation between the equipment and receiver.○ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.○ Consult the dealer or an experienced radio/TV technician for help.
Vietnam	
Nigeria	<div><p><u>Connection and use of this communications equipment is permitted by the Nigerian Communications Commission</u></p></div>



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CB(IEC62368)	<p>Following text should show in use manual:</p> <p>"Do not ingest battery, Chemical Burn Hazard</p> <p>This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.</p> <p>Keep new and used batteries away from children.</p> <p>If the battery compartment does not close securely, stop using the product and keep it away from children.</p> <p>If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention."</p>
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Manufacturer: Aritronix LTD, Inc.

Company address: 16055 N Dial Blvd Suite 10, Scottsdale, AZ 85260 USA

Specification	
Product name	Security System FOB
Model name	LM43F
Brand/Trademark	Aritronix
Radio frequency	433.9MHz, 125KHz
Modulation	FSK for 433.9MHz; Pulse Amplitude Modulation for 125KHz
Operating frequency	433.050-434.790 MHz; 0.119-0.135MHz
Receiving and Transmitting frequency	FOB: Transmitting 433.9MHz, Receiving 125KHz
Band width	57KHz for 433.9MHz, 18KHz for 125KHz
Maximum allowed transmitting power (EU)	-25dBm
Working voltage	Power by Lithium Manganese Dioxide Battery (3.0V)
Antenna type	Integral
Radio transmitting distance	140cm
Operating temperature	-30° to +60°C
Humidity	90% RH
Dimension	38.5mm x 51mm x 12.6mm



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Exhibit A