

# AS-RFK2800

## User Guide



Available functionalities depend on vehicle. Consult your dealer for more information.

Designed & engineered in Canada

# DIRECTED

**INDUSTRY CANADA USER NOTICE:**

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication. **NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Note: Some functionalities and behaviours may not be available on certain vehicles. See dealer for available options.

## Table of Contents

Government Regulations.....	3
Charging the Remote Control .....	4
LCD 2-Way.....	4
Fault Condition Alerts .....	5
Status Screen Icons .....	5
Basic Commands.....	6
Remote Start.....	6
Lock .....	6
Unlock.....	6
AUX/Trunk .....	6
Advanced Commands.....	6
Runtime Reset .....	6
LCD Remote Configuration .....	7
Navigating Menus and Options.....	7
Access Menu Items .....	7
Remote Pairing.....	7
Remote Features (Main Menu).....	7
Setup Remote menu .....	7
Pair Remote.....	9
Demo Mode .....	9
Power Off.....	9
Exit.....	9
Remote Start Features .....	10
Disabling Remote Start.....	10
Remote and System Operations .....	10
Out of Range .....	10
No Remote Output.....	10
1-Way Companion Remote Control .....	11
Using the 1-Way Companion Remote .....	11
Accessing Commands .....	11
Lock Keypad .....	11
Programming .....	11
Battery Information (1-Way).....	12
Battery Information (LCD).....	12
Low Battery.....	12
Low Battery Alerts.....	12
Battery Life.....	13
Battery Disposal.....	13

# Government Regulations

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.

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 and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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:

- 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.

This device complies with the Industry Canada Radio Standards Specification RSS 210. Its use is authorized only on a no-interference, no-protection basis; in other words, this device must not be used if it is determined that it causes harmful interferences to services authorized by IC. In addition, the user of this device must accept any radio interface that may be received, even if this interference could affect the operation of the device.

**Warning!** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

## Charging the Remote Control

Your Autostart LCD remote is powered by an internal rechargeable battery that can only be serviced by an authorized Directed dealer. Due to transit and storage time prior to your purchase, the battery charge may have depleted. To ensure proper operation, check the battery level and connect the battery charger if not fully charged. See the "Battery Information (LCD)" and "Status Screen Icons" sections for more information about the battery.

Charging the remote control:

1. Plug the AC adapter into a 110V AC outlet. Insert the mini-USB connector into the mini-USB port located on the side of the remote control (see diagram under LCD 2-way). The text field will display **CHARGE** to indicate the remote control is charging (The remote remains operational while charging and can command the system).
2. Once fully charged the text field will display **FULL**.
3. The remote control is then ready for use. Disconnect the mini-USB end from the remote control first and then the AC adapter from the AC outlet.

**Note:** If the battery is excessively depleted when the charger is connected, functionality may be delayed while it charges to the minimum voltage required to operate the display, after which normal charging resumes.

## LCD 2-Way

Your remote system is equipped with a 5-button multi-channel remote control. The functions of the transmitter are as follows:

### DISPLAY:

**Status Screen:** The upper portion of the display contains status icons for the System, Remote Start and Remote Control.

**Text field:** The lower portion of display – shows the Clock, or Runtime, as well as Command confirmations, Page messages and programming menus.

 <b>LOCK:</b> Locks the doors.		 <b>TRUNK:</b> Opens the TRUNK.
 <b>UNLOCK:</b> Unlocks the doors.		 <b>START/STOP:</b> Remote starts or stops the engine.
<b>MINI-USB PORT:</b> The battery charger plugs into this port.	 <b>SHIFT:</b> Allows access to programming and modifies operation of the other buttons.	

**N.B.:** Pressing ● then the **LOCK** button will activate the **AUX 1** output.

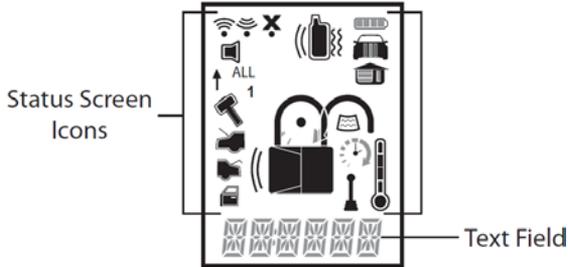
Pressing ● then the **UNLOCK** button will activate the **AUX 2** output.

## Fault Condition Alerts

If, when performing a command, a condition exists that does not allow activation of a Remote Start feature\*, the **NOT AVAILABLE** or **REMOTE START ERROR** text and a fault tone will play.

\* Remote Start feature not available when the Remote Start status is incorrect upon receiving the command. Refer to the notes included in the command descriptions that address these faults.

## Status Screen Icons



The table below describes all the status screen icons.

	Icon	Description
System Status		Locked: The system is Locked.
		Unlocked: The system is Unlocked.
Remote Start		Remote start is active, the engine is running.
		On during Aux/Trunk channel activation.
		On during Fault Report to indicate the Hood is open.
Remote Control Status		Bars indicate battery level is Full, ¾, ½, ¼ or Empty.
		On while the remote control is transmitting a command.
		On while the remote control is receiving a message.
		On with Out of Range fault tone to indicate the remote failed to receive a command confirmation.
		Pager on: The remote will wake up to listen for messages.
		Pager off: The remote will not wake up to listen for messages.
		The remote will Vibrate when messages are received.
		The remote will emit Beeps and Tones when messages are received.
	Text Field	Text field Displays the Clock, Runtime, message text and feature menus.

# Basic Commands

## Remote Start

Press and release 

Activates (or if On, deactivates) the engine. The parking lights and engine turn On and the **REMOTE START ON** text and tones play, or the engine and parking lights turn Off and the **REMOTE START OFF** text and tones play to confirm, the Remote Start status icons update. The  icon will display in the status screen and the text field will display the Runtime or Clock as programmed. If Remote Start fails to activate, **REMOTE START ERROR** text and a fault tone play.

The runtime is predetermined based on vehicle application. The engine will shut down when the preset runtime times out or when any shutdown zone becomes active.

## Lock

Press and release 

The doors lock and parking lights flash once. The **ARMED** text and beeps play to confirm and the System Status Icons update.

**Note:** If the remote is set to Remote Keyless Entry (RKE), it will display **LOCK/UNLOCK**; otherwise, it will display **ARMED/ DISARMED**.

## Unlock

Press and release 

The doors unlock and parking lights flash twice. The **DISARM** text and beeps play to confirm and the system status icons update.

**Note:** If the remote is set to Remote Keyless Entry (RKE), it will display **LOCK/UNLOCK**; otherwise, it will display **ARMED/ DISARMED**.

## AUX/Trunk

Press and hold 

The Trunk opens (if connected) when this button is pressed for more than 2 seconds. The **TRUNK** text and tones play to confirm.

# Advanced Commands

## Runtime Reset

Press the  button 1 time and then 

Re-starts the remote start runtime counter if remote start is active.

# LCD Remote Configuration

Operations of the LCD remote and how it communicates messages are set in the configuration Main Menu. The following instructions will direct you through the available programming options.

## Navigating Menus and Options

Navigating menus and features, changing options, and exiting are performed using the remote control buttons. The following instructions discuss how to access and configure the settings.

## Access Menu Items

1. Press and hold the ● button for 8 seconds, the remote will beep once, **MAIN MENU** is displayed.
2. Release the ● button to display the Main Menu item list, **SETUP REMOTE** is displayed.
3. The Main Menu has been accessed and configuring can begin.  
Use the following process to view the Main Menu features, options and settings in the text field. The following actions are commonly used throughout the configuration operation.
  - Press the  or  buttons to change the feature or option that is displayed in the text field.
  - Press the ● button to choose the feature in the text field and view its options. Press it when the desired feature or option is in the text field to set it as the new setting.
4. To exit configuration: use the  or  buttons.

## Remote Pairing

The following instruction will step you through the remote pairing operation.

1. Perform the steps under the "Access Menu Items" section to access the Pair Remote mode.
2. When the remote beeps 3 times and **PAIR** is displayed the remote is ready to pair.
3. Within 5 seconds press and release 1 time the Integrated Programming Button (IPB) on the XL202.
4. Within 5 seconds, press and hold IPB on the XL202. The status LED will flash one time to confirm the system is ready for remote pairing.
5. Press and hold the  button the remote will emit several tones to confirm successful pairing. **SUCCESS** is displayed and the remote returns to the main menu.
6. Release the IPB on the XL202.

**Note:** **FAILED** will be displayed and the remote will stay in the pair mode in case of an unsuccessful pairing. Check the system status and try again.

**Note:** Consult the installation center for the location of the XL202 or refer to dealer for programming.

## Remote Features (Main Menu)

The following Main Menu list of features available for configuration of the remote control.

### Setup Remote menu

Keypad Lock

Options: **OFF**, **AUTO**

When **OFF**, the keypad buttons do not lock and always perform a command when pressed. When set to **AUTO**, the remote buttons lock after a 20 second lapse between buttons presses to prevent unintentional operations. If a button is pressed when locked a fault tone plays as an alert followed by unlock instructions in the text field. To unlock the buttons, press the ● button followed by the  button. The unlock tones play and **READY** is displayed in the text field, a command can now be performed.

#### Page Mode

Options: **POWER SAVE, OFF, ON**

Paging is how the LCD remote monitors your system's messages. **POWER SAVE** extends battery life by turning Paging Off after 72 hours if the remote control is not used during this period. Just press any button to resume system monitoring. When set to **ON** it wakes up every few seconds to listen for pages from the system. When set to **OFF** it does not wake up to receive remote start or alarm trigger pages.

#### Page Alert

Options: **TONE VIBE, TONE, VIBE, SCREEN ONLY**

There are several ways for the LCD to alert you when it has received a message from the system. **TONE VIBE** will alert by both emitting tones and vibrating the remote. Select **TONE** to be alerted by tones that are unique for each message. Select **VIBE** and the LCD will silently alert you with a gentle vibration, or select **SCREEN ONLY** when you don't want to be interrupted.

#### Remote Start Info

Options: **RUNTIME, TEMP, CLOCK**

The text field can be set to display the information you prefer during remote start. **RUNTIME**: Remote Start Runtime, **TEMP** (not available on this system), or the **CLOCK** will be displayed in the text field while Remote Start is on.

#### *Runtime Alert (Not available on this system)*

Options: **ON, OFF**

#### Car 2

Options: **OFF, ON, HOME**

Turns **OFF** or **ON**, 2 car operation from the remote. The option for **HOME** is not available.

#### Screen Color

Options: **OFF, WHITE, LT GRN, VIOLET, AQUA, RED, GREEN, BLUE**

The status screen backlighting can be **OFF**, or will illuminate with a selected color during output when set to one of the option colors.

#### *Temp Unit (Not available on this system)*

Options: **F, C**

#### Button Beep

Options: **ON, OFF**

When set to **ON**, the remote will emit a beep as confirmation of a button press. When set to **OFF**, beeps are not emitted for button presses.

System Type  
Options: **SEC, RKE**

**Note:** If the remote is set to Remote Keyless Entry (RKE), it will display LOCK/UNLOCK; otherwise, it will display ARMED/DISARMED.

Clock Set  
Options: **HOUR, MIN**

Review  
Displays firmware version.

Exit  
Exits and returns to the main menu.

### Pair Remote

See the "Remote Pairing" section on page 7.

### Demo Mode

Demo Mode plays a pre-selected group of animations as a demonstration tool to show friends or family. Running Demo mode shortens the battery life over time if used excessively.

- **SINGLE SILENT:** The remote will display a selection of icons on the status screen without beeps and tones then stop.
- **SINGLE SOUND:** The remote will display a selection of icons on the status screen with beeps and tones then stop.
- **LOOP SILENT:** The remote will display a selection of icons on the status screen without beeps and tones in an endless loop until the battery charger is disconnected.
- **LOOP SOUND:** The remote will display a selection of icons on the status screen with beeps and tones in an endless loop until the battery charger is disconnected.

**Note:** Loop Silent and Loop Sound are not available and will not appear in the Demo Mode menu unless the battery charger is connected.

### Power Off

When an extended period of non-operation is anticipated, turning the power off will preserve the battery charge. Press the ● button while **POWER OFF** is displayed. The status screen icons clear as the Power Off tones play, the remote is turned off.

To turn the remote on, Press and hold the ● button for 3 seconds, the status screen icons refresh as the power on tones play. The remote also turns itself on and begins charging when the battery charger is connected.

### Exit

To return to normal operation, press the ● button while **EXIT** is displayed.

# Remote Start Features

## Disabling Remote Start

Remote start can be disabled by moving the Toggle Switch to the Off position. If remote start is attempted while Off, the engine will not start. Move the switch back to the On position to resume normal operation.

**Note:** Consult the installation center for the location of Toggle switch.

# Remote and System Operations

## Out of Range

Each time a command is performed the remote will expect a command confirmation from the system. If a command confirmation is not received the out-of-range icon (✖) and a fault tone will play as an alert.

## No Remote Output

Occasionally when a command is performed the remote may not generate a command confirmation output or Out of Range output. This indicates that the system received the command but it was an incomplete command (e.g. Aux button pressed too short to activate the trunk release) or it was an illegal message (e.g. the command was corrupted due to local RF interference). These are temporary normal functions of the system and remote, perform the command again within 10 seconds to return to normal operation.

# 1-Way Companion Remote Control

 <b>LOCK:</b> Locks the doors.		 <b>TRUNK:</b> Opens the TRUNK.
 <b>UNLOCK:</b> Unlocks the doors.		 <b>START/STOP:</b> Remote starts or stops the engine.
 <b>SHIFT:</b> Allows access to programming and modifies operation of the other buttons.		

## Using the 1-Way Companion Remote

The companion 1 way remote commands the system features as shown in the previous table, but without the message display of the LCD remote. Parking light flashes is used to indicate that a command has been received and activated as described in the “Basic Commands” and “Advanced Commands” sections.

## Accessing Commands

Similar to the LCD remote, Basic commands are performed when a command button is pressed directly. To perform Advanced Commands press the  button 1 to 4 times to access function levels,  x4 in the table for example implies pressing  4 times. The LED flashes in groups for a few seconds to indicate the level. Press the desired command button while the LED is flashing to perform the command.

## Lock Keypad

When On, the remote control buttons lock if more than 20 seconds lapses between button presses. If a button is pressed when locked, a fault tone is emitted. To unlock the buttons; press the  button followed by the  button, the buttons unlock and tones play to confirm.

## Programming

To enter; hold the  button for 8 seconds, the remote emits one long beep and turns the LED on, the programming main menu has been accessed.

To exit; press and release the  button to go back and repeat to exit. 1 short and 1 long beep is emitted for each step back, the LED turns off when programming is exited.

## Remote Features Menu

Press and release the  button, 2 LED flashes and beeps indicate the remote features menu is accessed and can be set. Press the buttons indicated below, 1 beep and flash turns the feature on, 2 beeps and flashes turns the feature off.

- Autolock feature: Press  to turn on/off.
- Remote Beeps: Press  to turn on/off.

## Remote Learning

Press the  button, 3 LED flashes and beeps indicates the remote is ready to program to the system.

Per the instruction in the “Remote Pairing” section of this guide, following step 4. Press and hold the  button, there will be no confirmation of pairing completed for this remote control.

## Battery Information (1-Way)

The 1-way companion remote is powered by one 3V coin cell lithium battery (PN CR-2032) that will last approximately one year under normal use.

## Battery Replacement

1. Using a small flat narrow object, push latch down towards battery tray while gently prying the tray outwards from both ends until released. Remove the tray from the remote control housing.
2. While observing the correct polarity, replace the old battery with a new one. Seat battery flush into tray and slide back into housing until securely latched. The remote control is now ready for use.

# Battery Information (LCD)

The LCD remote control is powered by an internal rechargeable battery that can be serviced only through an authorized Directed dealer. The information and precautions in this section can help maximize your battery's life and usage in providing your LCD remote control with many years of trouble free operation.

**Warnings!** NEVER connect the supplied AC adapter to products other than the LCD remote control. It is a high current device designed specifically for rapid charging of the LCD battery and may cause severe damage or explosion when connected to any other products.

Charging the battery when the temperature is below 32°F (0°C) or above 113°F (45°C) may cause severe battery damage and/or reduce battery life. Avoid placing the remote control in areas exposed to extreme cold or heat (direct sunlight) when charging the battery.

## Low Battery

After a command is performed the LCD and 1-way companion remote controls check their battery level and, when the level requires attention, will begin generating alerts. Once the alerts begin they will continue to command the system for several days but should be charged at the earliest opportunity or failure to control the system may occur.

## Low Battery Alerts

After performing a command, **LOWBAT** and several beeps play on the LCD remote to indicate the battery needs to be charged.

**Important!** To preserve power at critically low battery levels the LCD turns the pager off and stops receiving messages from the system. It will continue to command the system until the battery can be charged.

## Battery Life

The LCD remote control has many features that make it one of the most unique remote controls on the market today, including superior long range communication with the system. The default feature settings provide for excellent battery charge duration. However, to maximize this duration between charges, the following suggestions will help:

- Turn the remote Off: When not in use and/or out of range of the vehicle the remote can be turned off in the Main menu.
- Turn Paging off: The remote will not wake up to check for messages with Paging off in the Setup Remote menu.
- Turn Beeps off: The Button beeps can be turned off in the Setup Remote menu. The command beeps still play normally.

## Battery Disposal



Directed cares about the environment. If you need to dispose of the battery, please do so in accordance with your municipal requirements for battery disposal.