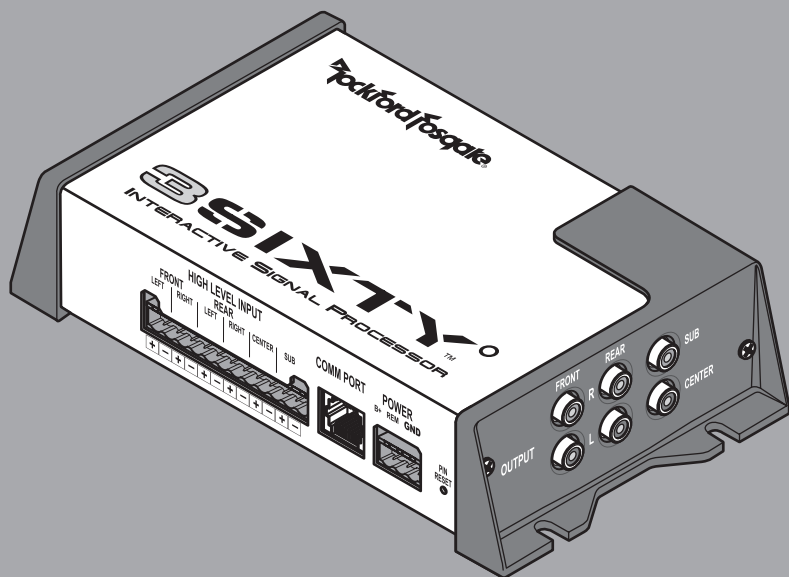


Rockford Fosgate®

3 SIXTY™

INTERACTIVE SIGNAL PROCESSOR



Installation & Operation

Installation et fonctionnement
Instalación y funcionamiento

INTRODUCTION

Dear Customer,

Congratulations on your purchase of the Rockford Fosgate 3Sixty. The 3Sixty uses a Patent Pending technology which allows it to integrate into OEM factory systems without the need to remove the source unit. At Rockford Fosgate we are fanatics about musical reproduction at its best, and we are pleased you chose our product. Through years of engineering expertise, hand craftsmanship and critical testing procedures, we have created a wide range of products that reproduce music with all the clarity and richness you deserve.

For maximum performance we recommend you have your new Rockford Fosgate product installed by an Authorized Rockford Fosgate Dealer, as we provide specialized training through Rockford Technical Training Institute (RTTI). Please read your warranty and retain your receipt and original carton for possible future use.

Great product and competent installations are only a piece of the puzzle when it comes to your system. Make sure that your installer is using 100% authentic installation accessories from Connecting Punch in your installation. Connecting Punch has everything from RCA cables and speaker wire to Power line and battery connectors. Insist on it! After all, your new system deserves nothing but the best.

To add the finishing touch to your new Rockford Fosgate image order your Rockford accessories, which include everything from T-shirts to jackets and hats.

To get a free brochure on Rockford Fosgate products and Rockford accessories, visit our web site at: www.rockfordfosgate.com or, in the U.S. call 1-800-669-9899 or FAX 1-800-398-3985. For all other countries, call +001-480-967-3565 or FAX +001-480-967-8132.

PRACTICE SAFE SOUND™

Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered auto sound systems may produce sound pressure levels well over 130dB. Use common sense and practice safe sound.

If, after reading your manual, you still have questions regarding this product, we recommend that you see your Rockford Fosgate dealer. If you need further assistance, you can call us direct at 1-800-669-9899. Be sure to have your serial number, model number and date of purchase available when you call.

The serial number can be found on the outside of the box. Please record it in the space provided below as your permanent record. This will serve as verification of your factory warranty and may become useful in recovering your unit if it is ever stolen.

Serial Number: _____

Model Number: _____

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NOTE: Review each section for more detailed information.

GETTING STARTED

Welcome to Rockford Fosgate! This manual is designed to provide information for the owner, salesperson and installer. For those of you who want quick information on how to install this product, please turn to the **Installation Section** of this manual. Other information can be located by using the Table of Contents. We, at Rockford Fosgate, have worked very hard to make sure all the information in this manual is current. But, as we are constantly finding new ways to improve our product, this information is subject to change without notice.


SAFETY INSTRUCTIONS


WARNING

This symbol with “**WARNING**” is intended to alert the user to the presence of important instructions. Failure to heed the instructions will result in severe injury or death.

CAUTION

This symbol with “**CAUTION**” is intended to alert the user to the presence of important instructions. Failure to heed the instructions can result in injury or unit damage.

 **CAUTION:** To prevent injury and damage to the unit, please read and follow the instructions in this manual. We want you to enjoy this system, not get a headache.

 **CAUTION** If you feel unsure about installing this system yourself, have it installed by a qualified Rockford Fosgate technician.

 **CAUTION** Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.

CONTENTS OF CARTON

Either 3Sixty.1 or 3Sixty.2 Interactive Signal Processor
Installation & Operation Manual

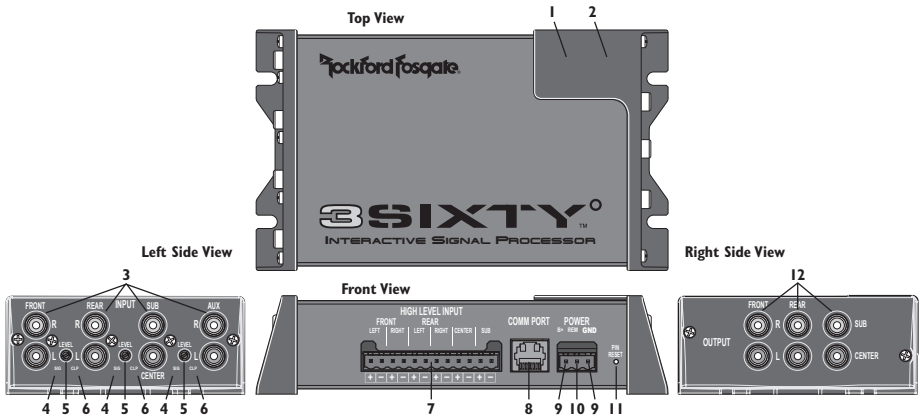
Remote Volume-Sub Control with Cable
Multimedia Setup Disc (CD)

IMPORTANT: A Palm® OS device (not included) is required for initial setup and adjustments for the 3Sixty unit to properly work with your system.

Visit our web site for the latest information on all Rockford products.

www.rockfordfosgate.com

DESIGN FEATURES



1. **Power LED** – This red LED flashes while initializing and illuminates when the unit is turned on.
2. **Bluetooth® Connection** – The Power LED turns Blue when a Bluetooth link is established between the hardware and the Palm controller.
3. **RCA Input Jacks** – The industry standard RCA jacks provide an easy connection for signal level input. They are nickel-plated to resist the signal degradation caused by corrosion.
4. **SNG LED (Signal Presence)** – These Blue LEDs will illuminate when a signal is present at the RCA Input Jacks or at the High Level Inputs (Speaker) (Except for AUX inputs).
5. **Level Control (Signal Level Sensitivity)** – The signal level sensitivity control is present to match the output of most source units. It can be adjusted to match output levels from a variety of source units.
6. **CLP LED (Clipping)** – These Red LEDs will illuminate when a clipping is present at the RCA Output Jacks (Except for AUX inputs).
7. **High Level Input (Speaker)** – The High Level Input uses a detachable connector that will accept up to 18 AWG wires. This input should be used if the source unit has only speaker line (high level) outputs and not RCA outputs.
8. **Comm Port (Communication Port)** – Connect a Remote Volume-Sub accessory to this port to control the master volume or subwoofer level. You can also switch between the main and auxiliary inputs by pressing the knob on the remote. Connection is made with a RJ-45 cable and can be installed in a variety of ways for easy control access.
9. **Power Connection** – This is a detachable connector that will accept up to 18 AWG wires for the power (B+) and ground (GND).
10. **REM Connection** – This is part of the detachable power connector and will accept up to a 18 AWG wire. This terminal is can be used to either remotely turn-on and turn-off the 3Sixty, when +12V DC is applied, or the connection can be set up to remotely turn-on and turn-off an amplifier.
11. **PIN Reset (Personal Identification Number)** – Pressing this reset button will reset the Bluetooth PIN number to default (0000)[four zeros].
12. **RCA Output Jacks** – The industry standard RCA jacks provide an easy connection to amplifiers. They are nickel-plated to resist the signal degradation caused by corrosion.

INSTALLATION CONSIDERATIONS

As the automotive manufacturers increasingly make their source units (radios) an integral part of the vehicle, it becomes harder to change them out and upgrade your system. The 3Sixty makes it possible to utilize the vehicle source unit and still create the sound experience that fits you. With easy to use menus, the 3Sixty connected to your vehicle's source unit and an amplifier, you can create a sound stage that is personally tuned to your vehicle. The 3Sixty gives you all the benefits of creating the best system possible without compromising the manufacturer's integrated source system.


IMPORTANT: To tune the 3Sixty properly to your system, the source unit must have a CD player. Also, the 3Sixty is used as an integration tool for connecting an amplifier and other components to your existing vehicle source unit. An amplifier with RCA inputs is required to connect the 3Sixty into your system. A Palm® OS device is also required for initial setup and adjustments for the 3Sixty unit to properly work with your system.


The following is a list of tools needed for installation:

Palm Based Device	Battery post wrench
Volt/Ohm Meter	Hand held drill w/assorted bits
Wire strippers	1/8" diameter heatshrink tubing
Wire crimpers	Assorted connectors
Wire cutters	Adequate Length—Red Power Wire
Small Flathead screwdriver	Adequate Length—Remote Turn-on Wire
#2 Phillips screwdriver	Adequate Length—Black Grounding Wire

This section focuses on some of the vehicle considerations for installing your new system.

Pre-planning your system layout and best wiring routes will save installation time. When deciding on the layout of your new system, be sure that each component will be easily accessible for making adjustments.

 **CAUTION:** If you feel unsure about installing this system yourself, have it installed by a qualified technician.

 **CAUTION:** Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.

Before beginning any installation, follow these simple rules:

1. Be sure to carefully read and understand the instructions before attempting to install the unit.
2. For safety, disconnect the negative lead from the battery prior to beginning the installation.
3. For easier assembly, we suggest you run all wires prior to mounting your unit in place.
4. Route all of the RCA cables close together and away from any high current wires.
5. Use high quality connectors for a reliable installation and to minimize signal or power loss.
6. Think before you drill! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle.
7. Never run wires underneath the vehicle. Running the wires inside the vehicle provides the best protection.
8. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.
9. ALWAYS protect the battery and electrical system from damage with proper fusing. Install the appropriate fuse holder and fuse on the +12V power wire within 18" (45.7 cm) of the battery terminal.
10. When grounding to the chassis of the vehicle, scrape all paint from the metal to ensure a good, clean ground connection. Grounding connections should be as short as possible and always be connected to metal that is welded to the main body, or chassis, of the vehicle.

INSTALLATION

MOUNTING LOCATIONS

Engine Compartment

Never mount this unit in the engine compartment. Mounting the unit in the engine compartment will void your warranty.




Trunk Mounting

The recommended orientation would be on the floor, as this would provide the best possible range for the Bluetooth controller. The device may be mounted in any other orientation as long as Bluetooth range is maintained. Each vehicle is made of different materials and this may inhibit the Bluetooth range as well. The less metal between the device and controller, the better the signal strength will be.

Passenger Compartment Mounting

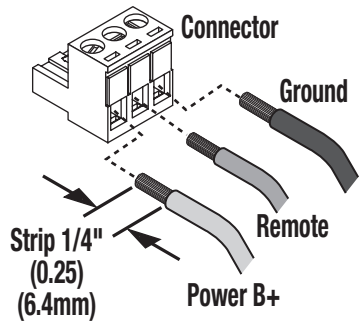
This would be the ideal location for the device, as this would provide the optimal Bluetooth range.

WIRING THE SYSTEM

-  **CAUTION:** If you do not feel comfortable with wiring your new unit, please see your local Authorized Rockford Fosgate Dealer for installation.
-  **CAUTION:** Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.
-  **CAUTION:** Avoid running power wires near the low level input cables, antenna, power leads, sensitive equipment or harnesses. The power wires carry substantial current and could induce noise into the audio system.

Power Connection

1. Plan the wire routing. Keep RCA cables close together but isolated from power cables and any high power auto accessories, especially electric motors. This is done to prevent coupling the noise from radiated electrical fields into the audio signal. When feeding the wires through the firewall or any metal barrier, protect them with plastic or rubber grommets to prevent short circuits. Leave the wires long at this point to adjust for a precise fit at a later time.
2. Prepare the RED wire (power cable) for attachment to the power connector by stripping 1/4" (6.4mm) of insulation from the end of the wire. Insert the bared wire into the B+ terminal and tighten the setscrew to secure the cable in place.
3. Connect the RED (B+) wire to a source of switched +12V (is on only when the ignition key is in the "accessory (ACC)" or "run" position).
4. Prepare the BLACK wire (ground cable) for attachment to the power connector by stripping 1/4" (6.4mm) of insulation from the end of the wire. Insert the bare wire into the GND terminal and tighten the setscrew to secure the cable in place. Prepare the chassis ground by scraping any paint from the metal surface and thoroughly clean the area of all dirt and grease. Strip the other end of the wire and attach a ring connector. Fasten the cable to the chassis using a non-anodized screw and a star washer.



NOTE: Keep the length of the BLACK wire (Ground) as short as possible.

NOTE: The REM connection can be used as either an input (turning on and off the 3Sixty unit) or as an output (used to turn on or off an amplifier or other accessory). If the source unit provides a remote turn on, it is recommended that the REM be used as an input. If a remote lead is not available, the 3Sixty will turn on and off via signal sense circuitry.

- Prepare the REM (remote) wire for for attachment to the power connector by stripping 1/4" (6.4mm) of insulation from the end of the wire. Insert the bared wire into the REM terminal and tighten the setscrew to secure the wire in place.

Used as an input: Connect the other end of the REM wire to a switched 12 volt positive source. The switched voltage is usually taken from the source unit's remote amp on lead.

Used as an output: You will need to contact customer service for proper procedure to reconfigure the unit to set the REM as an output.

- Securely mount the 3Sixty unit to the vehicle and insert the power connector into the 3Sixty.

Input Connection

CAUTION: Use only one input configuration. Using both the RCA and High Level inputs will cause undesirable operation.

IMPORTANT: The 3Sixty can be set up to create a 6-channel output with only 2-channels (Left and Right) of input. However, for the best sound stage, it is strongly recommended to connect into all of the main inputs (AUX not required). If you are not using all 6 inputs (Front/Rear Left and Right, Center and Sub) the system will either SUM the inputs during New Setup or ask you if you want to SUM the inputs during OEM Integration. Keep in mind that if you choose to use SUM, all left channels will form one signal and all right channels will form one signal. Stereo imaging will be maintained but your fader will cease to function. If you choose not to sum, any audio inputs not used will not have audio on their output.

RCA Input Connection

- Connect the RCAs from the source unit into the input jacks at the left side of the 3Sixty.

High Level Input Connection

CAUTION: Ensure to maintain signal polarity when using the high level inputs. Failure to do so may cause undesirable phasing effects.

- Connect the high level inputs (speaker) from the source unit into the matching connections of the connector for the 3Sixty High Level Input. Strip 1/4" (6.4mm) and insert into the connector terminal and tighten the setscrew to secure into place. Be sure to maintain proper polarity. DO NOT chassis ground any of the leads as unstable operation may result.

NOTE: Follow the diagram for proper signal polarity.

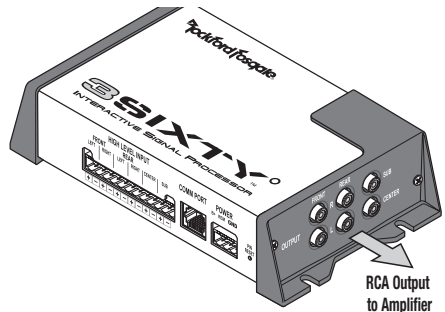
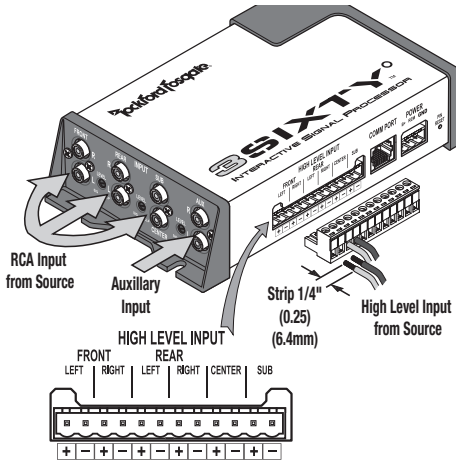
- Insert the wired connector into the High Level Input port on the 3Sixty.

RCA Output Connection

- Use RCA cables to connect the output jacks of the 3Sixty to the input jacks of the amplifier you have selected for your system. The 3Sixty will allow you to connect 6-channels of output.
- Follow the instructions in your amplifier manual for connecting the rest of your system.
- Perform a final check of the completed system wiring to ensure that all connections are accurate. Check all power and ground connections for frayed wires and loose connections which could cause problems.

COMM PORT Connection

- DO NOT connect the remote into the COMM PORT at this time. OEM Integration and New Setup needs this disconnected for proper system integration.



INITIAL SETUP

PALM REQUIREMENTS AND SOFTWARE INSTALLATION

While 3Sixty will run without an external controller, a Palm® OS device (not included) is required for initial setup and adjustments for the 3Sixty unit to properly work with your system.

Palm Requirements

- Palm OSV 5.0 (or higher)
- Bluetooth® Communication
- 320x320 Display
- 16-bit Color Resolution

Supported Palm Devices

- PalmOne Tungsten T5
- PalmOne Tungsten E2
- PalmOne Treo 650
- PalmOne Zire 72
- Sony PEG-NZ90
- Sony PEG-UX40
- Sony PEG-UX-50
- Tapwave Zodiac I
- Tapwave Zodiac I

NOTE: Go to www.rockfordsgate.com/3Sixty for an updated list of compatible devices.

Palm Software Installation

Before using the Palm device to setup your 3Sixty, you will need to install the appropriate software.

1. HotSync the Palm device to your PC (see the manual for the Palm device for HotSync procedure).
2. When HotSync is successful, insert the 3Sixty setup disc into your PC.
3. Run the palmOne Quick Install application (typically located at C:\Program Files\palmOne\QuickInstall.exe).

NOTE: The locations of the QuickInstall application is based on a typical install and may vary from PC to PC.

5. Click Add button.
6. Locate the CD-ROM.
7. Select software 3SIXTY.1_01.prc for model 3Sixty.1, or software 3SIXTY.2_01.prc for model 3Sixty.2.

NOTE: Both versions software may be installed on the Palm at the same time. Software 3SIXTY.1_01.prc will only control 3Sixty.1 units and the software 3SIXTY.2_01.prc will only control 3Sixty.2 units.

8. Click Open.
9. Go to the Palm handheld and select HotSync.

The 3Sixty control software is now installed onto your Palm device.

NOTE: A Demo feature is included in the software. This will allow you to familiarize yourself with features and adjustments without actually connecting to the 3Sixty Interactive Signal Processor. Use the Operation section in this manual to help guide you through this feature.



OPERATION

NOTE: Due to the different Palm models available for use with the 3Sixty, the following instructions takes into account that you have an understanding of the operation of the Palm device you are using.

BLUETOOTH CONNECTION

The 3Sixty unit is controlled wirelessly using Bluetooth® technology. This enables the user to control the unit anywhere within the range of the Bluetooth antenna. The standard range is approximately 30 feet. This range may be less depending on the obstacles between the 3Sixty unit and the Palm device.

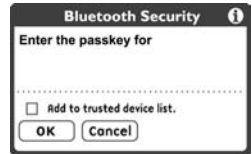
1. Turn vehicle key to accessory.
2. Wait for red power LED on the 3Sixty unit to stop blinking.
3. Run the 3Sixty (3Sixty.1 for 3Sixty.1, or 3Sixty.2 for 3Sixty.2) application on your Palm device.
4. A screen will appear showing that the Palm device is looking for a Bluetooth connection.

NOTE: If a screen appears showing Bluetooth connection failed, move closer to the 3Sixty unit and try again to connect.

5. Select the 3Sixty unit name from the list shown and select “OK” to connect.

NOTE: The default name on the list is the serial number for the 3Sixty unit. The serial number is located on the bottom of the 3Sixty unit.

6. The first time a screen will appear requesting the security passkey for the unit, this is the PIN (Personal Identification Number) for the 3Sixty unit. The default PIN is 0000 (four zeros). Clicking the box “Add to trusted device list” will allow you to skip this step the next time you connect from the Palm device currently being used.



7. Once Bluetooth connection is established, the Palm device will show the main menu and the 3Sixty unit power LED will turn blue.

NEW SETUP AND OEM INTEGRATION

OEM Integration - This Patent Pending feature allows the integration of aftermarket audio equipment into a OEM (Original Equipment Manufacturer) audio system without removing the source unit and amplifier. Many OEM audio systems are tuned for the components (amps and speakers) installed at the factory. They are also used to fix the acoustic signature of the vehicle. The 3Sixty OEM Integration feature will help solve the issue of pre-EQ (Equalizer) signal to allow for the installation of aftermarket audio components. Rockford does not guarantee this feature will fix the vehicle’s acoustic signature.

CAUTION: Rockford recommends that 3Sixty OEM Integration feature be setup by an authorized dealer. Damage may be caused to the OEM audio system due to tampering. Rockford takes no responsibility for such actions.

1. Connect to the 3Sixty via Bluetooth Connection. See procedure above.
2. Select either the **New Setup** or **OEM Integration** Icon from the main screen and the 3SIXTY setup wizard will appear.



3Sixty.1 Main Menu Screen



3Sixty.2 Main Menu Screen

NOTE: A set of screens will walk you thru the process. At any time, you may click Cancel to return to the main screen. Selecting Back will return you to the previous screen; next will advance you to the next step.

3. Go to **OEM Integration** or to page 11 for **New Setup**.

OEM Integration

4. Click “NEXT” to start the setup for the OEM Integration process. Clicking the Cancel icon will return you to the main screen.



OPERATION-SETUP

5. Follow the instructions to adjust your amplifier for system setup.

A: Set the all the gains on the amplifier to minimum.

B: Insert the "3Sixty Setup Disc" CD into the vehicle's main CD player

C: Play track 1 and set the player to repeat the track.

NOTE: If you do not have a repeat function on your CD player, ensure track 1 plays during the entire setup process.

6. Select "NEXT" to continue. Follow the instructions to adjust your source unit for system setup.

A: If the source unit does not clip at maximum volume, then set the volume to maximum, otherwise set the volume 3/4 of the way up.

B: Set the source unit's Balance/Fader to center.

C: Set the source unit's Bass and Treble to 0.

7. Select "NEXT" to continue. Follow the instructions to adjust your 3Sixty for system setup.

IMPORTANT: If you are not using the 6 main inputs (Front/Rear Left and Right, Center and Sub), or a signal is not detected at an input, OEM Integration will SUM the inputs (all left channels will form one signal and all right channels will form one signal). Stereo imaging will be maintained but your fader will cease to function.

A: Locate LEVEL control next to the input RCAs, and the signal presence (SLP) and clipping (CLP) LED's located under the RCAs. If there is an input whose SLP blue LED is not on, then use a small flathead screwdriver to turn the "LEVEL" control up (clockwise) until the blue LED comes on. If at maximum setting the blue LED does not come on, turn it back all the way down and recheck your connections. You may need to recheck the Bass and Treble settings or use a different input.

NOTE: If you still can't get the signal presence (SLP) LED to come on, troubleshoot the system. If the problem still persists, call customer service.

B: Using a small flathead screwdriver, turn the "LEVEL" control up (clockwise) until the clipping (CLP) indicator just begins to blink red. Turn the level down (counter-clockwise) slightly if the indicator is steady red. The ideal setting is where the CLP red LED is blinking.

8. Select "NEXT" to continue. You will need to disconnect all RCA outputs from the 3Sixty unit and change the CD track playing to track 2. Do this and click "OK" to continue.

9. You will then be asked if you wish to SUM the channels if a full range signal is not detected. Make your choice, Yes or No to continue.

a: YES, if full-range signal is not detected, at one or more main inputs, the software will SUM that channel.

b: NO, any signal detected at an input will be the same signal at the same output. Any signal not detected will cause the software to SUM that channel.

10. Wait until the Red LED on the 3Sixty unit stops blinking then click "NEXT" to continue.

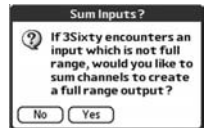
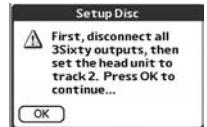
NOTE: This process may take up to 10 minutes to complete, please be patient.

11. Reconnect the RCA outputs to the 3Sixty unit.

12. OEM integration is now complete. All channels have been configured, each with a flat frequency response. Select OK to continue.

13. OEM Integration is complete and "Click on a speaker to edit" (Tuning Screen) will appear. You may now continue tuning your system by selecting any of the speakers shown on the image, see Tuning Your System - EQ on page 12. Or, you can select DONE to exit.

3Sixty.2: If you selected "DONE", you will be asked to save the current file. Either select "Yes" to save the file (see Loading and Saving a File at the end section of Operation), or "No, thanks" to continue exiting without saving the file to the Palm device. The current setup file is maintained on the 3Sixty unit and will be used when you access the unit.



New Setup

- Click on the inputs you have connected to your 3Sixty unit. Clicking the Cancel icon will return you to the main screen.

NOTE: The 3Sixty can be set up to create a 6-channel output with only 2-channels (Left and Right) of input. However, for the best sound stage, it is strongly recommended to connect into all of the main inputs (AUX not required). The system will SUM if you are not using the 6 main inputs (all left channels will form one signal and all right channels will form one signal). Stereo imaging will be maintained but your fader will cease to function.

- Select "NEXT" to continue. Follow the instructions to adjust your amplifier for system setup.

- Set the all the gains on the amplifier to minimum.
- Insert the "3Sixty Setup Disc" CD into the vehicle's main CD player
- Play track 1 and set the player to repeat the track.

NOTE: If you do not have a repeat function on your CD player, ensure track 1 plays during the entire setup process.

- Select "NEXT" to continue. Follow the instructions to adjust your source unit for system setup.

- If the source unit does not clip at maximum volume, then set the volume to maximum, otherwise set the volume 3/4 of the way up.
- Set the source unit's Balance/Fader to center.
- Set the source unit's Bass and Treble to 0.

- Select "NEXT" to continue. Follow the instructions to adjust your 3Sixty for system setup.

NOTE: The 3Sixty can be set up to create a 6-channel output with only 2-channels (Left and Right) of input. However, for the best sound stage, it is strongly recommended to connect into all of the main inputs (AUX not required). The system will SUM if you are not using the 6 main inputs.

- Locate LEVEL control next to the input RCAs, and the signal presence (SLP) and clipping (CLP) LED's located under the RCAs. If there is an input whose SLP blue LED is not on, then use a small flathead screwdriver to turn the "LEVEL" control up (clockwise) until the blue LED comes on. If at maximum setting the blue LED does not come on, turn it back all the way down and recheck your connections. You may need to recheck the Bass and Treble settings or use a different input.

NOTE: If you still can't get the signal presence (SLP) LED to come on, troubleshoot the system. If the problem still persists, call customer service.

- Using a small flathead screwdriver, turn the "LEVEL" control up (clockwise) until the clipping (CLP) indicator just begins to blink red. Turn the level down (counter-clockwise) slightly if the indicator is steady red. The ideal setting is where the CLP red LED is blinking.

NOTE: You only need to adjust the levels for the inputs being used.

- When adjustments are completed, select "NEXT" to continue.

- The screen will show a status bar of transferring data to the 3Sixty unit.
- The screen will ask you to wait while it mutes the audio.
- After a few moments the audio will be restored.

- New Setup is complete and "Click on a speaker to edit" (Tuning Screen) will appear. You may now continue tuning your system by selecting any of the speakers shown on the image, see Tuning Your System - EQ on page 12. Or, you can select DONE to exit.

3Sixty.2: If you selected "DONE", you will be asked to save the current file. Either select "Yes" to save the file (see Loading and Saving a File at the end section of Operation), or "No, thanks" to continue exiting without saving the file to the Palm device. The current setup file is maintained on the 3Sixty unit and will be used when you access the unit.



OPERATION-TUNING

TUNING YOUR SYSTEM - EQ

If you are continuing from the previous section then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

1. Select the Tune System icon from the main menu to go to the Tuning Screen.

NOTE: Adjustments made are in real time and these adjustments are saved to the 3Sixty as well as to the file with the same name on the Palm device. If you don't want to make changes to the file, be sure you save a copy of it with a different name before continuing.



**Tuning Screen
3Sixty.1**

**Tuning Screen
3Sixty.2**

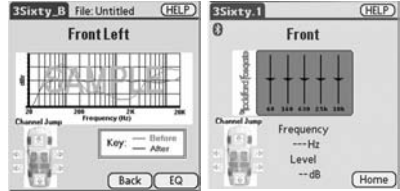
Tune System

The first screen is the Tuning Screen, here you can click on a speaker icon to go to the EQ and crossover settings. With the 3Sixty.2 you can also get an overview of your current settings, save your settings as a file on your palm, adjust the settings for the auxiliary input and set the output levels for all the channels. Clicking done will return you to the main menu.

Setting the Equalizer (EQ)

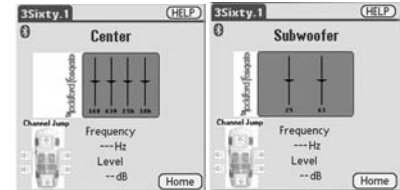
NOTE: When adjustments are made to the EQ, the system may take a few moments to update the information on the 3Sixty unit. During the updating process the Blue LED will blink and the word "UPDATING" will be displayed on the screen. Normal operation of the Palm will resume when the updating is finished.

1. To access the EQ and other features simple click on the desired speaker in the home screen. If the OEM Integration feature was used, the next screen will show a frequency response of before and after. To continue to EQ, press Edit.



3Sixty.1: The front channels have a 5-band equalizer (EQ), the center and rear channels have a 4-band EQ, and the sub channel has a 2-band EQ.

3Sixty.2: The front left and right channels have a 31-band 1/3rd octave equalizer (EQ), the center, rear left and right channels have a 27-band 1/3rd octave EQ, and the sub channel has a 10-band 1/3rd octave EQ.



NOTE: You can move quickly to any of the channels by simply touching the speaker icon of the channel you want in the Channel Jump area.

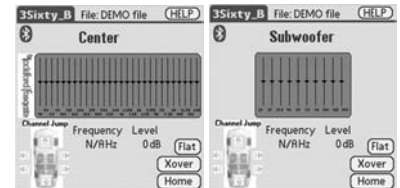
2. To adjust the EQ, simply use the stylus to move a slider. An EQ curve may also be "drawn" simply by dragging the stylus from one side to the other.

NOTE: The active sliders parameters, frequency and level, are display in the magnifier display for easy access. These values cannot be edited directly, the slider must be used for adjustments.



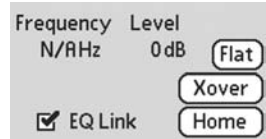
Flat (All Channels) - 3Sixty.2 Only

3. Clicking on the Flat icon will reset your EQ parameters to nominally flat for that channel. If the channel was linked, front or rear channels, this will reset both left and right channels.



EQ Link - Front and Rear Channels - 3Sixty.2 Only

- By selecting EQ Link, the current channel and its stereo mate are linked together. Any adjustment made to the active channel will also occur on the mate channel. This mode is recommended for novice users. The title for that EQ will change to either Front Channels or Rear Channels depending on the channels you linked.



Home

- Clicking on the Home icon will return you back to the Tuning Screen.

Xover (Crossover) - 3Sixty.2 Only

- Clicking on the Xover icon will take you to the crossover adjustment screen.

TUNING YOUR SYSTEM - XOVER (3SIXTY.2 ONLY)

If you are continuing from the previous section then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

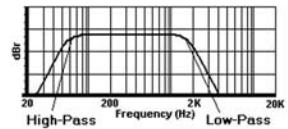
- Select the Tune System icon from the main menu to go to the Tuning Screen.
- Select the speaker icon for the channel you will be adjusting.
- From the EQ screen, select the Xover icon to take you to the crossover adjustment screen for that channel.

NOTE: You can move quickly to any of the channels by simply touching the speaker icon of the channel you want in the Channel Jump area.

Xover (Crossover)

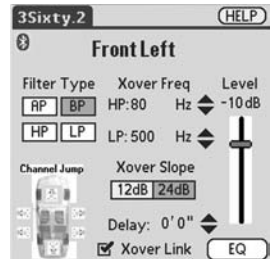
Filter Type - Front, Rear and Center Channels

- The crossovers for each channel can be configured as either high-pass (HP), low-pass (LP), band-pass (BP) or completely by-passed (AP). Except the subwoofer channel which is set to low-pass (LP).



Xover Freq (Crossover Frequency)

- Frequency is adjustable between 50 and 10000Hz in stepped increments for front, rear and center channels and between 50 and 200Hz for the subwoofer channel
- When in band-pass mode (BP) there are 2 corner frequencies. The high-pass frequency is the lowest frequency you want for your speaker while the low-pass frequency is the highest frequency. See the sample graph.
- When you select any mode (except AP) the current crossover frequency will be displayed. Use the arrows to the immediate right of each field to adjust the frequency up or down.
- Frequency adjusts in stepped increments, 5 increments between 50 and 100, 10 increments between 100 and 250, 50 increments between 250 and 1000, 250 increments between 1000 and 5000, and 1000 increments between 5000 and 10000.



Xover Slope (Crossover Slope)

- Select the crossover slope you want, either 12dB/octave or 24dB/octave. The steeper the slope, the faster the roll-off, resulting in less content passing through the device from the unwanted frequency range.

NOTE: If you are unsure as to the correct setting, consult your local Authorized Rockford Fosgate dealer for correct recommended setting for your specific system.

Delay

- Each channel has the ability to be delayed. The delay ranges from 0 to 10 feet in increments of 6 inches. This feature is used to manipulate the sound field image within the vehicle. Click on the up and down arrows to adjust the delay.

NOTE: The Xover Link does NOT link the left and right stereo pair delay like it does to the other crossover settings. Each channel remains independent and must be adjusted as such.

OPERATION-TUNING

Xover Link (Crossover Link) - Front and Rear Channels

- Each channel may have unique crossover settings; this flexibility is left up to the user. For a novice user, it is recommended that the check box labeled "Xover Link" is left checked (default). When this box has a check mark in it, it links the stereo channels. For example, if the active channel is Front Right and this box is checked, every change you make to the crossover will also be duplicated on Front Left. The exception to this is delay. Delay will always remain independent on each channel.

Level (Output Level)

- The output level can be adjusted using the slider located on the right hand side of the display. This is adjustable between 0 and -40dB. This control helps in compensating for vehicle acoustics.

NOTE: You can also adjust all the output levels at the same time in the Level Screen which can be accessed on the Tuning Screen.

Infrasonic (Subwoofer only)

- Clicking the Infrasonic to "ON" in the Subwoofer xover screen will allow you to set either a 12 or 24dB octave Infrasonic filter between 20 and 35Hz. This control helps in compensating for vehicle acoustics.

EQ (Equalizer)

- Clicking on the EQ icon will take you back to the equalizer screen for that channel.



TUNING YOUR SYSTEM - OUTPUT LEVEL (3SIXTY.2 ONLY)

If you are continuing from the previous section then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

- Select the Tune System icon from the main menu to go to the Tuning Screen.
- Select the LEVEL icon to enter the level output screen.

Level (Output Level)

- All 6 channels are shown on this screen. Each stereo pair can be linked by checking the "Level Link" box. By default this box is selected. When channels are linked adjusting once will automatically adjust the other.
- The output level for each channel can be adjusted using the slider control. This is adjustable between 0 and -40dB.

NOTE: You can also adjust the output level individually when adjusting the crossover of each channel in the Xover screen.

Mute

- When the Mute box is selected, the audio on that channel (plus its stereo mate if Level Link is selected) will become muted. This feature is typically used when tuning individual channels.

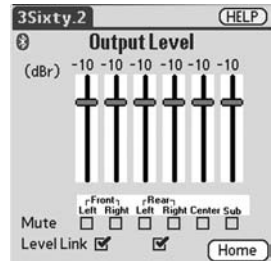
NOTE: Be sure to deselect all mute boxes when adjustment is complete.

Level Link - Front and Rear Channels

- Selecting level Link will link the level adjusters for front left and/or right or rear left and right together. Any adjustment made will also occur on the mate channel. This also includes muting and solo selection.

Home

- Clicking on the Home icon will return you back to the Tuning Screen.



TUNING YOUR SYSTEM - AUXILIARY (3SIXTY.2 ONLY)

If you are continuing from the previous section then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

1. Select the Tune System icon from the main menu to go to the Tuning Screen.
2. Select the AUX icon to enter the auxiliary EQ adjustment screen.

Aux (auxiliary EQ)

3. The AUX (auxiliary) channel has a 31-band 1/3rd octave equalizer (EQ).
4. To adjust the EQ, simply use the stylus to move a slider. An EQ curve may also be “drawn” simply by dragging the stylus from one side to the other.

NOTE: The active sliders parameters, frequency and level, are display in the magnifier display for easy access. These values cannot be edited directly, the slider must be used for adjustments.



Flat

5. Clicking on the Flat icon will reset your EQ parameters to nominally flat for that channel.

Home

6. Clicking on the Home icon will return you back to the Tuning Screen.

TUNING YOUR SYSTEM - OVERVIEW (3SIXTY.2 ONLY)

If you are continuing from the previous section then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

1. Select the Tune System icon from the main menu to go to the Tuning Screen.
2. Select the Overview icon to enter the Overview screen.

Overview

This screen gives you an overview of the current settings in your 3Sixty unit. The screen shows the settings for all the channels, except Aux (auxiliary). It shows the output levels, xover and frequency settings, slope settings, delay settings and a small graph of the current EQ settings.

NOTE: No settings or adjustments can be made on this screen.

Selecting Done will return you to the Tuning screen.



TUNING YOUR SYSTEM - SAVE AS... (3SIXTY.2 ONLY)

Even though all the settings and adjustments you have done are saved real-time to the 3Sixty unit, you may want to save the settings to a file onto your Palm device for later review or modification.

1. Clicking on the Rename File icon in the tuning screen allows you the option of saving the current settings to a file.
2. A screen will appear asking you to enter a file name that you want to save the current settings as.
3. After entering a file name, either click the Save icon to save your file or the Cancel icon to exit out of this option.



OPERATION-FILES

SAVING, LOADING AND DELETING FILES (3SIXTY.2 ONLY)

IMPORTANT: If you are connected to a 3Sixty unit via Bluetooth when you load a file, any settings currently on the 3Sixty unit will be overwritten. We suggest you save your settings before loading a new file.

Anytime you connect to a 3Sixty unit via bluetooth, the current settings of the 3Sixty are loaded to the Palm device. Any adjustments made on the Palm device are relayed real-time back to the 3Sixty unit. Saving the current settings will allow you to make adjustments and reload the old settings if you decide the new settings aren't working out. This also gives you the availability to save a multitude of files for different 3Sixty applications.

File Name

The current file name will vary depending on which method was used to get the file. When loaded, the file name will be displayed in the upper area of the Palm device's screen.

- A. If you connected to a 3Sixty unit via Bluetooth, the file name will be the one currently stored in the 3Sixty unit (factory default name will be "Untitled"). During setup, if the user does not change the name from Untitled, you will be prompted to save the file.
- B. If the Load File feature was used, the file name will be the one shown in the Load File list.

Saving a File

NOTE: It is NOT necessary to save the file. Any adjustments made on the Palm device are relayed real-time back to the 3Sixty unit. If you wish to save, simply choose Yes and you will be taken to the Save As window.

- A. If you're doing a New Setup or OEM Integration you will be prompted to save your file. If you wish to save, simply choose Yes and you will be taken to the Save As window.
- B. If you retrieved a file from the 3Sixty unit via Bluetooth connection or loaded an existing file from the Palm device, you can save and/or rename the file by going to the Tune System screen and clicking on the Rename File icon. A screen will appear asking you to enter a file name that you want to save it as. After entering a file name, either click the Save icon to save your file or the Cancel icon to exit out of this option.

Loading a File

1. To access a previously saved file, choose Load File from the main screen.
2. A list of the saved files will pop-up on the display. Highlight the desired file and select OK to continue.

IMPORTANT: If you are connected to a 3Sixty unit via Bluetooth when you load a file, any settings currently on the 3Sixty unit will be overwritten. We suggest you save your settings before loading a new file.

3. The settings in the loaded file will replace those currently in the 3Sixty unit. You can make changes to the settings and either save as a new file or save over the old file using the same file name.

Deleting a File

The Palm device has the ability to store up to 100 files. These files are backed up onto your PC each time the Palm uses the HotSync feature.

1. To view all of the files on the Palm, choose the Manage Files icon on the main screen.
2. A list will be displayed with all of the files. To delete a file, simply highlight the desired file and click on the Delete icon.
3. A confirmation will be displayed, click the Yes icon to delete or the No icon if you have changed your mind.

NOTE: Once files are deleted they cannot be retrieved, so make sure the file is no longer needed. The number of files will vary from each type of Palm device. The more memory a Palm device has, the more files that can be stored on it.



HARDWARE INFORMATION

Each 3Sixty contains system information. This information includes the device name, serial number, Bluetooth® PIN (Personal Identification Number) and other important information.

NOTE: As new features become available for your 3Sixty unit, this is the section you will use to update your firmware.

- To view the information on your 3Sixty unit, choose the Hardware Info icon on the main screen.

NOTE: If the Palm device is running the demo mode, the hardware settings will not display any data. You must be connected to a 3Sixty unit to retrieve this information.

3Sixty.2

Hardware Settings

Device: _____ (Edit)

Serial #: _____

Pin #: _____ (Edit)

Firmware Ver: _____

Device Level: _____

(Upgrade Device) (Done)

Device

- This is the current name of the 3Sixty unit you are currently connected to. This is not the file name, this is the name the 3Sixty unit uses during Bluetooth connection.

NOTE: The default name is “3Sixty” and it’s serial number.

- To change the name of the 3Sixty, click Edit next to the current device name.
- Enter the new name and click the Done icon, or click the Cancel icon to cancel out of this option.

Change Name

Please enter a new name:
Tip: Use license plate

New Name: _____

(Cancel) (Done)

Serial

- This is the serial number of the 3Sixty unit you are currently connected to. The serial number can also be located on the bottom of the 3Sixty unit.

Pin # (Personal Identification Number)

- This is the PIN number of the 3Sixty unit you are currently connected to.

NOTE: The default PIN is “0000” (four zeros). This number can also be reset to default by pressing the PIN RESET button on the 3Sixty unit with the head of a pen.

- To change the PIN of the 3Sixty, click Edit next to the Pin # line.
- Enter the old and new PIN and click the Done icon, or click the Cancel icon to cancel out of this option.

Change Pin

Please enter a new pin:
Tip: Use last 4 digits from VIN

Old: N/A New: _____

(Cancel) (Done)

Firmware Ver (Firmware Version)

- This is the version of the firmware currently running the 3Sixty unit you are currently connected to.

NOTE: The firmware version may change during Upgrade Device.

Device Level

- This tells you which 3Sixty you have, either 3Sixty.1 or 3Sixty.2.

NOTE: The device level may change during Upgrade Device.

Upgrade Device

- Clicking on the Upgrade Device icon will take you to a screen that will ask for your serial number and the unlock code that you received to upgrade your firmware. Enter this and click Unlock to proceed, or click the Cancel icon to cancel out of this option.

Done

- Clicking on the Done icon will return you back to the Main Screen.

OPERATION-REMOTE

REMOTE CONTROL

IMPORTANT: Have the remote disconnected from the 3Sixty unit when doing New Setup or OEM Integration. Doing so may cause undesirable operation of the 3Sixty unit.

Comm Port (Communications Port)

The 3Sixty unit has the ability to control the master volume or the Subwoofer output level, and switch the 3Sixty unit to use the Aux (auxiliary) inputs by pressing the knob on the remote.

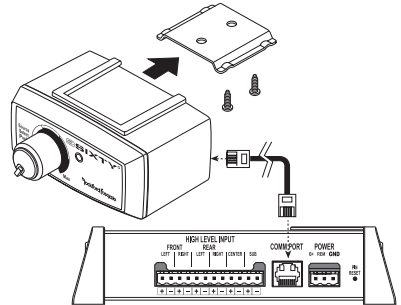
Mounting and installation

1. Find a location that gives easy access to the remote.

NOTE: You can mount this unit in a variety of ways.

Remove the back housing by using a small flat screwdriver in the slotted hole at the back. The housing can be installed with the mounting tab up or down, or left off for in panel installation.

2. Route the cable for the remote and connect into the COMM PORT on the 3Sixty unit.

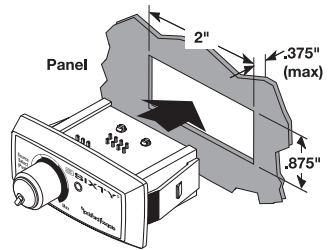


Outside Panel Install

3. Using the supplied screws, install the mounting clip.
4. Slip the remote onto the mounting clip until it snaps into place.
5. Connect the cable to the remote.

Panel Install

6. Cut out a 2" x 7/8" hole in the panel, with a maximum panel thickness of 3/8". Ensure there is enough room within the panel area for connection.
7. Route the cable through the hole and connect to the remote.
8. Press the remote into the panel cutout until it clicks in place.



OPERATION

Setting Features

If you're continuing from the main screen then continue to step 1. If you need to load a file or are connecting to a 3Sixty unit, see Loading a File in section Operation-Files, or Bluetooth Connection at the beginning of section Operation-Setup.

1. Select the Comm Port icon from the main menu to go to the Comm Port Screen.
2. Select either the Master Volume or Subwoofer Level icon to decide which feature the remote will control. Click the Done icon to continue.
 - A: Selecting Master Volume will allow the remote to control the volume output of the 3Sixty unit.
 - B: Selecting Subwoofer Level will allow the remote to control the volume level for the subwoofer (SUB) output of the 3Sixty unit.

NOTE: This feature only attenuates up to the maximum Output Level that was set for the 3Sixty unit. See Operation-Tuning, Tuning Your System - Output Level for setting the output level of the 3Sixty unit.

Control

1. You can select between the main and auxiliary inputs on the 3Sixty unit by pressing in on the knob of the remote. The audio will mute for a moment while it switches inputs.

NOTE: When switched to the auxiliary inputs, the remote will only control the master volume.



3Sixty Unit

Device doesn't turn on.

- A. Verify connections.
- B. Verify there is 10.5 - 15.5 Volts present at the power B+ connection to the 3Sixty unit.
- C. Contact Customer service.

Power Indicator (Red LED) does not stop blinking.

- A. Turn power off to 3Sixty unit. Wait a moment and turn unit back on.
- B. If problem persists, contact Customer service.

No signal (SIG) indicator when my inputs are connected.

- A. Verify connections.
- B. Turn the input sensitivity level control up until signal indicator is illuminated.
- C. Verify signal from source.

No clip (CLP) indicator.

- A. Turn the input sensitivity level control up.
- B. If this does not help, your signal level may be too low from your source.
 - a. Increase your source signal level.
 - b. You may not have the required 1VRMS to clip the 3Sixty.

No audio out.

- A. Verify all connections to the 3Sixty and other audio devices in your system.
- B. Verify that all audio devices connected to the 3Sixty unit have power on.
- C. Check that the remote has not switch the 3Sixty unit to use Aux (auxiliary) inputs.
- D. Call Customer service.

Distorted audio at high volumes.

- A. Turn the input sensitivity level down slightly.

System does not respond to 3Sixty remote controller.

- A. Check cable connection between 3Sixty and remote.
- B. Check the feature settings of the remote in the Palm interface, since it may control the sub or master volume, you may need to choose the best setting for your system.

Bluetooth indicator (Blue LED) remains on even when Palm is off and/or disconnected.

- A. Turn power off to 3Sixty unit. Wait a moment and turn unit back on.

3Sixty will not accept the PIN number.

- A. Verify the PIN you are entering is correct.
- B. Press the PIN reset button, this will restore the pin to "0000" (four zeros).

continued on following page

TROUBLESHOOTING

Palm Device

Palm locks up or freezes.

- A. Perform a soft reset on your Palm by locating the RESET button on the Palm. Please see Palm owner's manual for location of this button as it varies from device to device.

When installing the 3Sixty programs onto my Palm, I do not see them listed in the available applications.

- A. When installing new applications, Palm devices typically store them in the unfiled section of your Palm. You may choose to locate this folder, or may need to set the Palm to view all programs, please see Palm owners manual for more info.

Palm won't connect to 3Sixty.

- A. Check that 3Sixty is powered up and power indicator is solid, not blinking.
- B. Make sure you are using the appropriate software for your hardware, IE 3Sixty.1 software with a 3Sixty.1 device or the 3Sixty.2 software for a 3Sixty.2 device.
- C. Make sure Palm is not in DEMO mode (When in this mode, the upper left hand corner of the screen in the 3Sixty application will show the word DEMO instead of the Bluetooth symbol).
- D. Move palm closer to the 3Sixty device, there may be too much metal between the device and the Palm reducing the signal strength.
- E. Verify you have the correct PIN.

When adjusting the EQ, the Palm appears to freeze or lock up.

- A. When you adjust the EQ, the Palm will show "Updating..." on the top of the EQ section. This is an indication that the Palm is still processing your changes. Simply wait and this message should disappear and Palm will become active. If it does not, you may need to reset your Palm (see Palm owners manual for more info).

SPECIFICATIONS

MODEL-	3SIXTY.1	3SIXTY.2
Maximum Input Level	20 V rms	20 V rms
Maximum Output Level	5 V rms	5 V rms
Output Gain	±10dB	±10dB
Frequency Response	10Hz-21kHz	10Hz-21kHz
Total Harmonic Distortion	<0.01%	<0.01%
Signal to Noise Ratio	-100dB (A-Weighted)	-100dB (A-Weighted)
Input Impedance	10k Ohms	10k Ohms
Crossover Slope	N/A	12/24 db/octave
Crossover Type	N/A	3-way 12dB/Octave Butterworth 24dB/Octave Linkwitz-Riley
Crossover Frequencies	N/A	62 steps/50Hz-10kHz
Subsonic Filter Slope	N/A	12/24 dB/Octave
Graphic Equalization Controls	N/A	31 bands, 20Hz-20kHz ISO 1/3 octave centers
Equalization Boost/Cut	N/A	±10dB
Power Draw	600mA	600mA
Recommended Fuse Rating	2 Amp	2 Amp
Weight	1.0 lbs	1.0 lbs
Dimensions:		
Height	1.75"	1.75"
Width	7.25"	7.25"
Length	4.25"	4.25"

Specifications subject to change without notice

Rockford Corporation offers a limited warranty on Rockford Fosgate products on the following terms:

Length of Warranty

Source Units, Speakers, Signal Processors and PUNCH Amplifiers – 1 Year
POWER Amplifiers – 2 Years Type RF Amplifiers – 3 Years
Any Factory Refurbished Product – 90 days (receipt required)

What is Covered

This warranty applies only to Rockford Fosgate products sold to consumers by Authorized Rockford Fosgate Dealers in the United States of America or its possessions. Product purchased by consumers from an Authorized Rockford Fosgate Dealer in another country are covered only by that country's Distributor and not by Rockford Corporation.

Who is Covered

This warranty covers only the original purchaser of Rockford product purchased from an Authorized Rockford Fosgate Dealer in the United States. In order to receive service, the purchaser must provide Rockford with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford's discretion.

What is Not Covered

1. Damage caused by accident, abuse, improper operations, water, theft, shipping
2. Any cost or expense related to the removal or reinstallation of product
3. Service performed by anyone other than Rockford or an Authorized Rockford Fosgate Service Center
4. Any product which has had the serial number defaced, altered, or removed
5. Subsequent damage to other components
6. Any product purchased outside the U.S.
7. Any product not purchased from an Authorized Rockford Fosgate Dealer

Limit on Implied Warranties

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Rockford Fosgate any other liability in connection with the sale of the product.

How to Obtain Service

Contact the Authorized Rockford Fosgate Dealer you purchased this product from. If you need further assistance, call 1-800-669-9899 for Rockford Customer Service. You must obtain an RA# (Return Authorization number) to return any product to Rockford Fosgate. You are responsible for shipment of product to Rockford.

EU Warranty

This product meets the current EU warranty requirements, see your Authorized dealer for details.

Ship to: **Electronics**
Rockford Corporation
Warranty Repair Department
2055 E. 5th Street
Tempe, AZ 85281
RA#: _____

Ship to: **Speakers**
Rockford Acoustic Design
Speaker Returns
3056 Walker Ridge Dr. Suite G.
Walker, MI 49544
RA#: _____

Rockford Fosgate®

Installation assistance available at:

RFTECH

www.rockfordfosgate.com/rftech



Rockford Fosgate
Rockford Corporation
546 South Rockford Drive
Tempe, Arizona 85281 U.S.A.
In U.S.A., (480) 967-3565
In Europe, Fax (49) 8503-934014
In Japan, Fax (81) 559-79-1265

www.rockfordfosgate.com