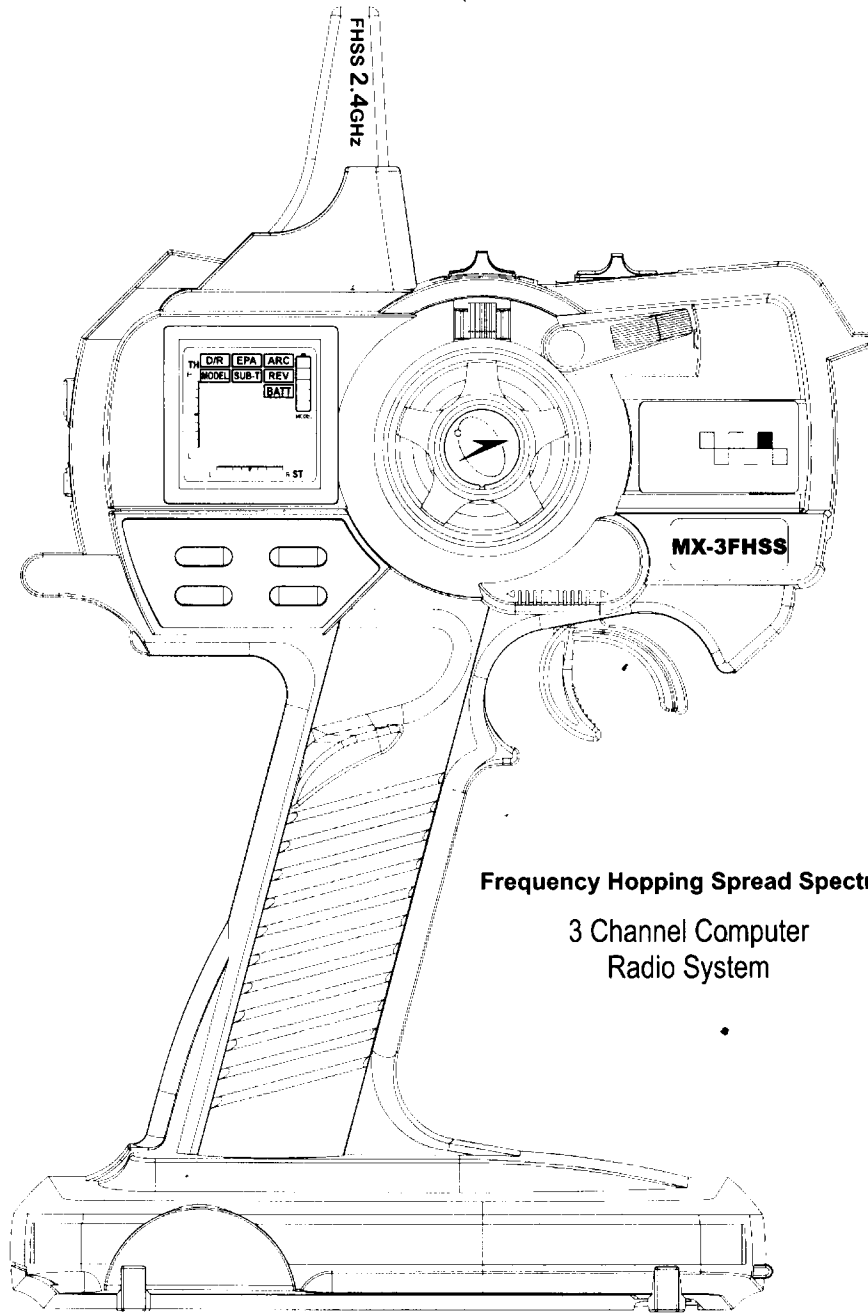


**AIRTRONICS<sup>®</sup>**  
**Get The Advantage**



**Frequency Hopping Spread Spectrum**  
**3 Channel Computer**  
**Radio System**

**S**  
**S**  
**H**  
**F**  
**C**  
**X**  
**X**

We appreciate your purchase of this new Airtronics MX-3FHSS Frequency Hopping Spread Spectrum Radio Control System.

These instructions are intended to familiarize you with the many unique features of this modern, state of the art equipment. Please read them carefully so you may obtain maximum success and enjoyment from its operation.

Please note that the MX-3FHSS is designed for comfort and precise control of all types of model cars and boats. We wish you the best of success with your radio system. **Enjoy and have fun.**

# MX-3FHSS

## SYSTEM FEATURES

Unique and functional pistol grip transmitter design  
 Well balanced for precise control  
 Non-slip foam steering wheel  
 Well placed digital trim levers  
 Optimum third channel switch location  
 Big LCD display  
 Adjustable (70/30) Throttle trigger  
 Low Battery warning  
 Quick Binding and Fail Safe Setup  
 High performance micro 3 channel receiver  
 NiCd charger jack in transmitter  
 Wrist strap holder (optional wrist strap part # 99104 )  
 Sound Beep ( On / Off )

### Screen Display

Digital Trim indicators (throttle and steering)  
 Battery Fuel Tank  
 Dual Rate Steering  
 EPA Steering, Throttle, AUX  
 ARC Steering, Throttle  
 Model Memory (18 )  
 Sub-Trim Steering, Throttle  
 Servo Rev Steering, Throttle, AUX  
 Battery Voltage Display  
 Audio On / Off

## SYSTEM SPECIFICATIONS

### Transmitter

Model: MX-3FHSS  
 Output power: 80 mW  
 Power supply: 8 AA alkaline dry cells DC 12V or 8 cell NiCd Pack.  
 Weight: 14.46 ounces  
 Frequency: 2.4 GHz ISM Band

### Accessories

97001Z switch harness  
 Receiver dry battery holder  
 instruction manual

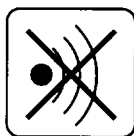
### Receiver

Model: 92324  
 Frequency: 2.4 GHz ISM Band  
 Power supply: DC 4.8 ~6.0V  
 Weight: 14.5 grams  
 Dimensions: 1.03"(L) x 1.18"(W) x 0.75"(H)  
 Fail Safe Limit: Fail Safe will active at 3.6V

### Options

95046Z Transmitter NiCd Battery Pack ( 700mah )  
 95033Z NiCd Dual Battery Charger TX and RX  
 99104 Deluxe wrist strap

## AUDIO ON / OFF Beep



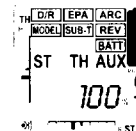
Audio off icon

By default the audio sound beep is in the on position. This beep will sound out every time you press any of the input or trim keys. You can turn the audio off by:

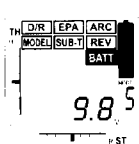
1. Turn radio power switch to the off position
2. Press the INC key down and hold.
3. Turn power switch to the on position
4. Release the INC key.

Audio off icon

To turn the audio sound on, repeat steps 1 ~ 4.



NOTE: When audio sound is "ON" there will be no icon displayed in the lower left of the display screen.



**Battery**

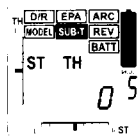
Pressing both menu buttons simultaneously, will automatically move the cursor to the battery voltage screen. Low battery warning beep will come on when battery reaches 9.1V



**Servo Reverse**

Press the left menu key to move the cursor to the REV screen. The screen will now display AUX. Change the servo direction by pressing (INC or DEC) key for the AUX channel. By pressing the left menu key again, you can change the TH and ST directions.

**Default**  
 ST NOR  
 TH NOR  
 AUX NOR

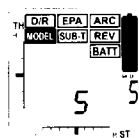


**Sub Trim**

Press the left menu key to move the cursor to the SUB-T screen. The screen will now display TH. Adjust the sub-trim by using the (INC or DEC) key. Press the left menu key to display the ST and adjust using the (INC or DEC) key.

**Default**  
 ST 0  
 TH 0

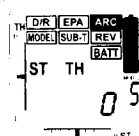
Range +15 ~ -15



**Model Select**

Press the left menu key to move the cursor to MODEL. The screen will now display the model number you are currently using. To change models, press the (INC or DEC) key to select model 1 ~ 18.

Range 1 ~ 18

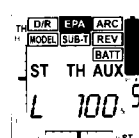


**Arc**

Press the left menu key to move the cursor to ARC. The screen will now display TH. Adjust the ARC by pressing the (INC or DEC) key. Press the left menu key to adjust the ST. (NOTE) Steering ARC will work in both left and right directions. Throttle ARC only works in forward direction.

**Default**  
 ST 0  
 TH 0

Range - 100 ~ 100

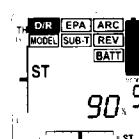


**End Point Adjustment**

Press the left menu key to move the cursor to EPA. The screen will now display AUX (L) or (R). By moving the AUX channel lever, you will see the (L or R) change. EPA can be set for both directions. To set TH, move trigger forward or back to see (H or L). Move steering wheel to see (L or R)

**Default**  
 ST 100%  
 TH 100%  
 AUX 100%

ST: Range 0% ~ 120%  
 TH-L: Range 0% ~ 160%  
 TH-H: Range 0% ~ 140%  
 AUX: Range 0% ~ 150%



**Steering Dual Rate**

Press the left menu key to move the cursor to EPA. The screen will now display ST. This will display your current Steering Dual Rate setting. You can change this setting by using the (INC or DEC) keys or, by moving the D/R lever located above the steering wheel.

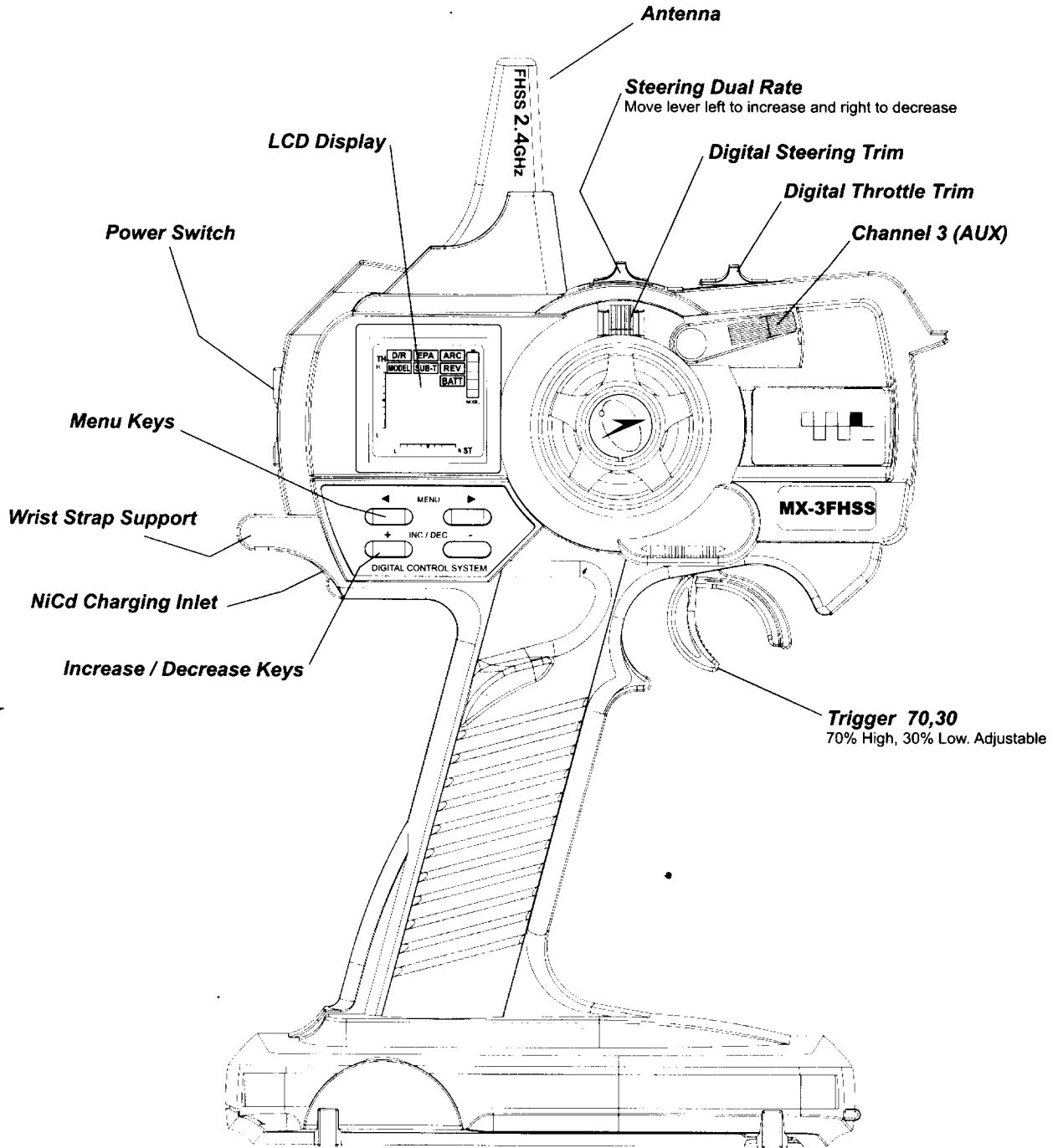
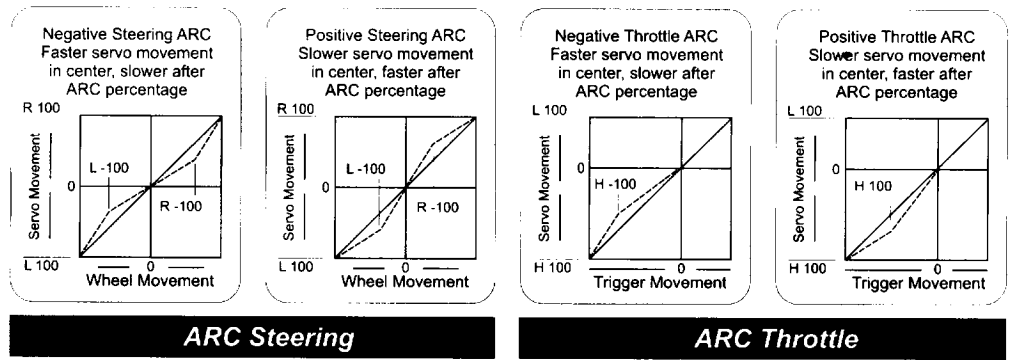
**Default**  
 ST 100%

Range 0% ~ 120%

**TRANSMITTER AND RECEIVER BINDING / FAIL SAFE SETUP**

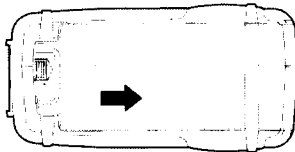
Before using your new MX-3FHSS system, you will need to Bind the transmitter and receiver. The binding process will lock the receiver to the transmitter and set the fail safe. To bind the transmitter to the receiver, follow the steps below after installing the receiver.

1. Turn the power switch to the ON position to power up the receiver.
2. Depress the Binding button on the receiver.
3. Turn the transmitter power switch ON.  
 (Note) If you want the Fail Safe to apply brakes, move the throttle trigger forward to your desired brake position before turning on the transmitter. This will add braking power when fail safe is activated.
4. After the transmitter and receiver bind together, the bind LED will stay on.  
 (Note) If transmitter fails to bind to the receiver after 10 seconds, repeat the above steps again.
5. After binding the transmitter and receiver together, test that the fail safe is working properly by moving the throttle trigger to full forward, hold it in this position and turn the transmitter power off. The fail safe should move the throttle servo back to its fail safe position.
6. Binding and throttle fail safe setup is now complete.

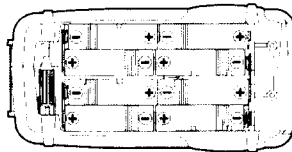


## TRANSMITTER BATTERY INSTALLATION

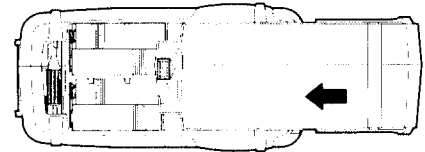
To Open slide Cover



Install Batteries



To Close slide cover



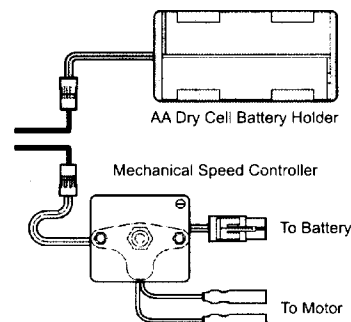
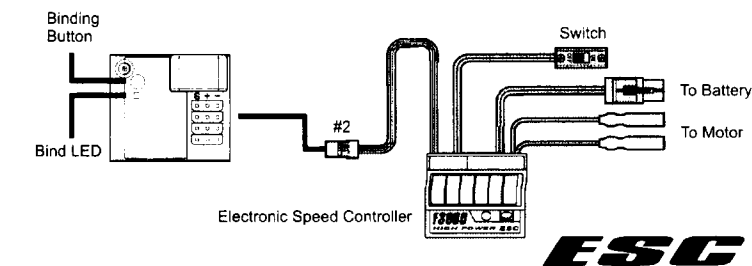
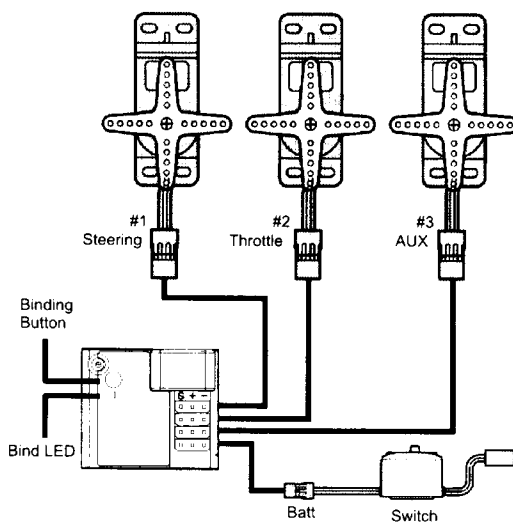
1. Press down on the battery cover and slide in the direction of the arrow to remove.
2. Install 8 pieces "AA" size alkaline batteries as indicated on the battery tray. Make sure to match the polarity (+ and -) as shown in the battery compartment or the transmitter will not function.
3. Install the battery cover in place and slide to close.

**WARNING:** Improper installation of transmitter batteries can cause serious damage to your system.

## RECEIVER AND SERVO CONNECTIONS

Your MX-3FHSS Computer R/C system receiver is **NOT** equipped with BEC circuitry. DO NOT use more than 6.0 volts to power the receiver. Anything higher than 6.0 volts will burn-up or destroy your receiver. Only use a 4.8~6.0 volt battery pack or a speed controller that is designed to lower the voltage to the receiver. The following diagram shows a typical connection for the servos and receiver. Note that the receiver antenna should be located at least 2" (50mm) away from any servo leads and switches. In electric cars, we recommend that it be at least 4" (100mm) from the electric motor.

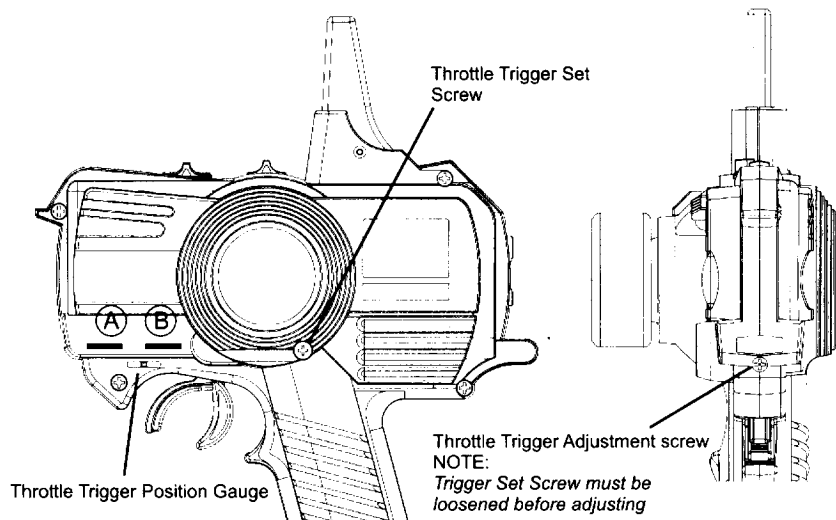
Extend the receiver antenna to the full length. Failure to do so will cause loss of control. Do not cut or bend the receiver antenna. Insulate the connectors with tape or use tie wraps to avoid contact with metal car chassis. Please follow the model manufacturers recommendations for the correct installation of your radio system in your car or boat.



**CAUTION**

When installing your MX-3FHSS radio system in your model, always make sure to set your model on a stand so the wheels are free from any traction before turning on your radio and or connecting your motor for the first time.

## TRIGGER POSITION ADJUSTMENT



The Throttle Trigger can be adjusted to give you a more natural feel of the throttle.

To Adjust:

1. Loosen the Throttle Trigger set screw by turning counter clock-wise.
2. Turning the adjustment screw clock-wise will move the trigger out or in the (A) direction.
3. Turning the adjustment screw counter clock-wise will move the trigger in or towards the (B) direction.
4. After adjustment is made, re-tighten the Trigger Set Screw.
5. Total adjustment for the trigger is 10mm. Do Not over tighten adjustment screw, it may damage the adjuster and or the threads.

## TROUBLESHOOTING GUIDE and WARNINGS

If your radio system does not operate properly, please check the following items:

1. Make sure the batteries are properly installed and fully charged. Make certain all the batteries are installed in the correct direction.
2. Check that both the transmitter and receiver power switches are in the ON position.
3. Check the battery voltage by turning on the transmitter and pushing both menu buttons at the same time and releasing.
4. Make sure all the receiver and servo connections are tight.
5. When binding or setting Fail Safe, make sure to wait 10 seconds between turning the receiver off and back on. If under 10 seconds, the receiver will not bind properly with the transmitter.

### WARNINGS:

YOUR MODEL CAN CAUSE SERIOUS DAMAGE OR INJURY SO PLEASE USE CAUTION AND COURTESY AT ALL TIMES.

DO NOT EXPOSE THE RADIO SYSTEM TO WATER OR EXCESSIVE MOISTURE.

PLEASE WATERPROOF THE RECEIVER AND SERVOS BY PLACING THEM IN A WATER TIGHT RADIO BOX WHEN OPERATING R/C BOAT MODELS.

IF YOU HAVE LITTLE OR NO EXPERIENCE OPERATING R/C MODELS, WE STRONGLY RECOMMEND YOU SEEK THE ASSISTANCE OF EXPERIENCED MODELERS OR YOUR LOCAL HOBBY SHOP FOR GUIDANCE.

## FCC COMPLIANCE STATEMENT

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. 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 technician for help.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. 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.

Warning: Changes or modifications made to this equipment not expressly approved by Airtronics may void the FCC authorization to operate this equipment.

### RF Exposure Statement

This transmitter has been tested and meets the FCC RF exposure guidelines when used with the Airtronics accessories supplied or designated for this product, and provided at least 20 cm separation between the antenna and the user's body is maintained. Use of other accessories may not ensure compliance with FCC RF exposure guidelines