

XR2i

2-Channel, 2-Model Memory
AM Computer Racing System

{Insert new picture of XR2i}

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Introduction

Thank you for purchasing the XR2i 2-channel radio system. This system has been designed to provide R/C racers with a high quality, user-friendly radio system that can be relied upon year after year, race after race. It is important that you carefully read this manual before attempting to operate your XR2i system.

For your convenience, a blank data sheet has been included in the back of this manual. Once you have input all the necessary data for a particular model into your transmitter, we strongly recommend that you immediately write that information down on the data sheet provided. This will insure that in the rare case of a memory failure, you will not lose the models' setup data.

For those who would like to get out to the track quickly with just the basic radio setup, please refer to the Quick Start section that follows.

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XR2i Quick Start Setup

Included in this manual are in-depth instructions detailing all the steps and procedures needed to correctly program each of the XR2i's features. Quick Start covers the basic programming information necessary to get you to the track fast. Later, when you want to learn more about the specific features of the XR2i, refer to the appropriate page(s) in this manual for more detailed programming information.

Servo Reversing

1. With the transmitter power switch on, press the Scroll key to enter the Function mode.
2. Press the Scroll key until "REV.NORM" appears on the screen. The "ST" indicates the steering servo reversing screen.

3. Press the Increase or Decrease key to move the cursor to the desired servo direction (Rev.Norm).
4. Press the Channel key once to access the throttle servo reversing screen.
5. To select the direction of the throttle servo, repeat Step 3 above.

End-Point (Travel) Adjustment

1. From the Servo Reverse function, press the Scroll key once to access the End-Point (Travel) Adjustment function (the EPA screen with "ST" will appear).

Steering Adjustment

2. Rotate the steering wheel in the desired direction (left or right) to be adjusted.
3. Press the Increase or Decrease keys to select the desired travel value.

Throttle Adjustment

4. Press the Channel key once. "TH" will appear on the screen.
5. Pull the trigger for forward or push the trigger for brake adjustment.
6. Press the Increase or Decrease keys to select the desired travel value.

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Direct Trim Access

Servo Trim Adjustment Steering

1. With the transmitter power switch on, move the digital steering trim lever in the desired position to be adjusted.

The steering trim value screen will appear automatically.

Throttle

2. With the transmitter power switch on, move the digital throttle trim lever in the desired position to be adjusted.

The throttle trim value screen will appear automatically.

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System Features

Transmitter

- 2 channels
- AM modulation
- Easy-to-read LCD graphics display
- 2-model memory
- 3-character model name entry
- Electronic digital trim levers for throttle and steering
- Assignable electronic grip lever
- Direct display trim function
- Servo reversing
- Sub-trim
- Steering dual-rate

- Steering end-point adjustment (two points: left and right)
- Brake/throttle endpoint adjustment
- Low-battery alarm
- Plug-in crystals
- Charge jack receptacle (rechargeable batteries not included; order JRPB958)

R-125 Receiver

- 2 channels
- AM modulation
- 27MHz/75MHz available
- Battery Eliminator Circuitry (BEC)
- Patented ABC&W interference technology

Z590M Servo

- Metal gears for durability
- Great high torque car/buggy steering servo
- Indirect drive feedback potentiometer for additional vibration protection
- Surface Mount Technology (SMT)

Z270 Servo

- Low current drain
- Indirect drive feedback potentiometer for additional vibration protection
- Surface Mount Technology (SMT)
- Durable nylon gear train

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System Specifications

Components

Transmitter XR2i

Receiver R-125

Servos Z590M x 1
Z270 x 1

Accessories BEC switch harness with battery case, servo accessories (for each servo),
instruction manual

XR2i Transmitter

| | |
|---------------|---------------------------|
| Model number | XR2i |
| Encoder | 2-channel computer system |
| RF output | 27MHz/75MHz |
| Modulation | AM |
| Output power | 195mW |
| Current Drain | 150mA |

Power source 1.5V x 8 dry cell
(1.2V x 8 Ni-Cd optional)
Output pulse 1000–2000 (1500 neutral)

R-125 Receiver

Model number NER-125
Type 2-channel/AM
ABC&W circuitry
Frequency 27MHz/75MHz
Sensitivity 5qs minimum
(microseconds)
Selectivity 8 KHz/50dB
Weight 1 oz
Size (WxLxH) 1.25" x 1.75" x 0.81"
Receiver Antenna 20"
Power supply 4.8–6.0V DC

Z270 Servo

Torque 49 ounce inch (@6.0V)
Speed .19 sec/60° (@6.0V)
Weight 1.50 oz
Size (WxLxH) 0.73" x 1.51" x 1.37"
Motor 3-pole ferrite

Z590M Servo

Torque 85 ounce inch (@6.0V)
Speed .15 sec/60° (@6.0V)
Weight 1.6 oz
Size (WxLxH) 0.73" x 1.55" x .146"
Motor 3-pole ferrite

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Control Identification and Location

(Need new picture w/callout with XR2i)

Antenna
Steering Wheel Electronic Digital
Throttle Trim Lever Dot Matrix
Multi- Data
LCD Display
Three-Character
Name Input
Digital Voltage
Reading
Electronic Digital

Grip Lever A
Electronic Digital
Grip Lever B
Grip Button C
Charge Jack
Power Switch
Scroll Button
= Enter Function
= Clear Function
Channel Button
Increase Button
Decrease Button
Electronic Digital
Steering Trim Lever
Throttle Trigger Adjustable
Steering Tension
Battery Cover *

(8 "AA" batteries required)

*To remove battery cover, press down on the arrow and push the cover in the direction of the arrow. Remove the battery case and install 8 "AA" batteries in the direction shown as molded into the battery case. If transmitter voltage fails to register, check for correct battery installation and voltage.

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R/C Safety Precautions

For safe and reliable performance of your R/C model, please carefully read and follow the guidelines below.

1. Radio control models are not toys. They are capable of inflicting serious injury to people and property. Use caution at all times when operating your model.
2. You are responsible for the safe operation of your R/C model. You must properly install, test and operate your model with a clear sense of that responsibility. Do not take risks that might endanger yourself or others.
3. Running an R/C car in the streets is very dangerous to both drivers and models. Avoid running your model in areas occupied by full-size automobiles. To locate areas where you can safely operate your model, contact your local hobby shop for R/C tracks or clubs in your area.
4. When running an R/C boat, keep it away from any swimmers, full-size boats and wildlife. Also, watch carefully for fishing lines that may get tangled in the propeller.
5. Before operating your model, make sure your frequency is clear. If someone else is operating on the same frequency, both models will go out of control, possibly causing damage to the models, as well as others.
6. If at any time while operating your R/C model you sense abnormal model functioning, end your operation immediately. Do not operate your model again until you are certain the problem has been corrected.

Caution: Control of your model is impossible without sufficient voltage for the transmitter and receiver. A weak transmitter battery will decrease your range of operation, and a weak receiver battery will slow servo movement and decrease your range of operation. Check your receiver pack voltage often to avoid losing control of your model. When using a model that operates both the electric motor and the receiver from the same battery (Battery Eliminating Circuitry or BEC), you should discontinue use when the top speed sharply decreases or you'll quickly lose control of your model.

Transmitter Crystal Replacement Notice

The Federal Communications Commission (FCC) requires that changes in transmitter frequency must be preformed only by an authorized service technician (Horizon Service Center). Any transmitter frequency changes made by a non-certified technician may result in a violation of the FCC rules.

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Steering Tension Adjustment

Steering tension is adjustable via the recessed screw located beneath the steering wheel (see page _ for exact location). Turning the screw clockwise increases the steering tension.

Charging Jack

Located on the left-hand side of the transmitter is the charging jack that accepts only JR wall chargers. Please do not attempt to use any other brand of wall charger, as it may be reverse polarity and can cause damage to your system. Only use the JR wall charger when the XR2i is equipped with Ni-Cd batteries (JRPB958, available separately).

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Receiver/Servo Connections and Installation

Your R-125 receiver is equipped with Battery Eliminator Circuitry (BEC). The receiver gets its power from the model's Ni-Cd battery pack, thus saving the weight of an additional receiver battery. Ni-Cd batteries from 4.8–8.4V (4–7 cells) can be used safely. Higher voltage packs may damage the receiver and servos.

Note: When using a separate receiver Ni-Cd as a power source, the operating voltage range is 4.8–6.0V (4- to 5-cell).

Attention: Make sure the male and female connectors have the correct polarity (+/-) before connecting. The servo lead and receiver case are molded so that the lead can only be inserted correctly. Be sure to orient the servo plug correctly for proper insertion.

You may use a separate receiver battery to power the receiver (such as for some electric boats or in gas-powered vehicles). A Ni-Cd pack plugged into the battery socket on your receiver will operate your receiver. You can also use alkaline batteries with the included battery box.

If you use a mechanical speed controller, please make sure it has the correct connector for a BEC system (red connector). See Figure A below for a typical setup. Most electronic speed controllers are set up for BEC operation and plug directly into your receiver

(Figure B). See Figure B for a typical setup and check your speed controller's manual for correct installation.

Figure A – Connections to BEC receiver with mechanical speed controller. Ni-Cd battery and speed controller are not included in the radio set.

Figure B – Connections to BEC receiver with electronic speed controller. Ni-Cd battery and speed controller are not included in the radio set.

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Operating Your Model

It's important to learn the proper sequence for switching on/off your radio system.

Before Operation

Switch on the transmitter, then the receiver.

After Operation

Switch off the receiver, then the transmitter. This ensures that you will always have a signal to the receiver and that your R/C model will not operate out of control when you turn off the transmitter.

Servo Layout

Note: Rubber grommets and (sometimes) eyelets are used in fuel-powered vehicles.

Key Input and Display

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Display Screens

Normal Display

When the power switch is turned on, the LCD screen will read as shown below. This screen is referred to as the Normal Display.

Note: If any of the electronic trim buttons are moved while in this screen, the screen will automatically change to display the trim in use. This is called the Direct Trim mode. For more information on the feature, please see page __ of this manual.

Low Battery/Lithium Battery Backup

When the voltage of the 8 "AA" batteries drops below 9.0V, the XR2i's display screen will alternate between the Normal and Low-Battery screen (BAT), and a continuous beeping will occur, indicating that the batteries need to be replaced before further use. The Low-Battery screen is active during any operating modes.

Lithium Battery

Your XR2i radio system is equipped with a five-year lithium battery backup system. This system is designed to protect and retain all radio programming in the event that the transmitter batteries drop below the required 9.0 volts, or the transmitter battery case is removed during battery changes. If after five years it becomes necessary to replace the lithium battery, return your system to the Horizon Service Center for repair (see address, page __).

Memory Backup

If the Memory Backup screen appears, this indicates the possibility of a ROM problem or the lithium battery is dead. If you switch the power off and on again, but the transmitter is in the default mode with all data lost, it is strongly suggested that the XR2i transmitter be returned to the Horizon Service Center for servicing (see Warranty Information page __).

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Accessing the System Mode

To enter the System mode, press both the Scroll and Channel keys at the same time while turning on the transmitter power switch. By pressing the Scroll key, you can now choose Model Select, Model Name Input, Grip button C function or the Data Reset function as shown here on the System Mode flow chart. Information for each function is located on the page number listed next to the function name on the flow chart.

To exit the System mode, press the Scroll and Channel keys at the same time or simply turn off the transmitter.

Note: If you turn the transmitter off and immediately enter System mode again, you will be returned to the last System mode function used instead of the model select function. While in System mode, there is no RF output generated by the transmitter. Adjustments can be performed with reduced battery power consumption. If you exit System mode by pressing the Scroll and Channel key at the same time, RF output will not be enabled until you first turn off the transmitter.

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Model Select (System Mode)

The XR2i has memory for two models. This feature allows for two different models to be operated with the same transmitter (additional receivers and servos must be purchased separately) or one model with two different race setups.

Accessing the Model Select Function

1. Press the Scroll and Channel keys at the same time and hold.
2. Turn the transmitter power switch on to enter System mode.
3. If "MDL" does not appear on the screen, press the Scroll key until "MDL" appears.
4. Press the Increase or Decrease keys to select the desired model number (1 or 2).
5. Press the Scroll key to access the Model Name Entry function.
6. To exit System mode, either turn the transmitter power switch off or press the Scroll and Channel keys at the same time.

Model Name Entry (System Mode)

The XR2i allows a three-character name to be input for each of the two models available. The current model with name will then be displayed in the Normal display screen. This feature is useful to help identify different models, setups, etc.

Accessing the Model Name Entry Function

1. Press the Scroll and Channel keys at the same time and hold.
2. Turn on the transmitter power switch to enter the System mode.
3. Press the Scroll key until "MD1" appears on the screen with the first character flashing.
4. Press the Increase or Decrease keys to select the correct letter/number for the first character (flashing).
5. To change the remaining two characters, press the Channel key until the desired character to be changed is flashing.
6. Press the Scroll key to access the Grip Button C function.
7. To exit the System mode, either turn the transmitter power switch off or press the Scroll and Channel keys at the same time.

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Grip Button C Function Select (System Mode)

The Grip Button C function of the XR2i allows you to select from 2 different functions available. Use the information below to select the correct Grip Button C assignment for your particular installation.

0 = The 0, or off function, is the default setting and does not assign a function to Grip Button C.

Eb = The Eb or Emergency Steering Button function is designed to override the value of Grip Dial B and provide 100% steering rate. This feature is useful if you have reduced the steering rate to make your vehicle easier to drive but need full steering in an emergency situation such as a collision.

Accessing the Grip Button C Function

1. Press the Scroll and Channel keys at the same time and hold.

2. Turn on the transmitter power switch to enter System mode.
3. Press the Scroll key until "GBC" appears on the screen.
4. Press the Increase or Decrease key to select the correct Grip Button C function type to be used.
5. Press the Scroll key to access the Data Reset function.
6. To exit the System mode, either turn the transmitter power switch off or press the Scroll and Channel keys at the same time.

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Data Reset (System Mode)

The Data Reset function allows you to reset all the programming in the selected model (1 or 2) to the factory default settings. Before using the Data Reset function, it is important to enter the Model Select function and check to make sure the current model number indicated (1 or 2) is the model to which you want to reset to the factory default settings. The Model Select function is described on page __.

Accessing the Data Reset Function

1. Press the Scroll and Channel keys at the same time and hold.
2. Turn on the transmitter power switch to enter the System mode.
3. Press the Scroll key until "CLR" appears on the screen.
4. Press the Increase and Decrease keys at the same time to reset the data. To confirm that the selected model's programming has been reset, a beep will sound and the model number selected (1 or 2) will stop flashing.
5. Press the Scroll key to access the Copy Model Data function.
6. To exit the System mode, either turn the transmitter power switch off or press the Scroll and Channel keys at the same time.

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Accessing the Function Mode

To enter the Function mode, it is necessary to first turn on the transmitter's power switch. Next, press the Scroll key until a beep is heard. The display will change to show the first function listed on the Function mode flow chart as shown below. Press the Scroll key to scroll down through the functions one by one, as shown in the flow chart. Once the desired function has been reached, use the Channel key to select the appropriate channel (if applicable). To adjust the values of the function, simply press the Increase (+) or Decrease (-) keys until the desired value is displayed on the screen. To exit function mode, press the Scroll and Channel keys at the same time. The next time you enter Function mode, you will be returned to the last function accessed.

{Insert Function Mode flow Chart}

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End-Point Adjustment (Function Mode)

The End-Point Adjustment feature of the XR2i allows the maximum travel of both the steering and throttle servos to be increased or decreased in each direction to achieve the exact servo movement needed. The End-Point Adjustment range is from 0% to 125% and is factory set to 100% for both channels. The value displayed on the screen depends on the current position of the steering wheel, trigger, or trim lever to be adjusted. This feature is very useful either to maximize servo travel or to reduce servo over-travel to eliminate servo binding (servo moves further than control mechanism allows), without the need for mechanical linkage adjustment.

The screens below are accessed by turning the wheel to the desired direction to be adjusted (left or right), by moving the trigger to the forward or backward (brake) position, or by moving the Grip Lever A to the forward or back positions.

Accessing The End-Point Adjustment Function

1. Turn on the transmitter power switch.
2. Press the Scroll key to enter Function mode.
3. Press the Scroll key until "EPA" appears in small letters on the left side of the screen.
4. Press the Channel key to select the desired channel to be adjusted.
Steering = ST R/B (steering right) or ST L/F (steering left)
Throttle = TH L/F (forward) or TH R/B (braking or reverse)
5. Move the steering wheel or trigger in the desired direction for adjustment (left/right, forward/reverse or brake). Press the Increase or Decrease key to achieve the desired amount of travel. Move the wheel or trigger in the opposite direction to adjust the travel in the opposite direction.
6. Press the Scroll key to access the Sub-Trim function.
7. To exit the Function mode, either turn off the transmitter power switch or press the Scroll and Channel keys at the same time.

Note: When setting the end point adjustment values for the steering function, it is suggested that, if possible, the maximum travel values be set to an equal value in both directions to maintain proper steering control.

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Sub-Trim (Function Mode)

The Sub-Trim function of the XR2i is an electronic trimming feature that allows the neutral position of the servo on either the steering or throttle channel to be moved, while allowing the electronic trim lever for that channel to remain in the center position. This feature is very useful as it allows the servo arm/wheel position to be moved to help with

control linkage installation, eliminating the need to make mechanical linkage adjustments.

Although the Sub-Trim function is a very useful feature, it is suggested that only small amounts of sub-trim be used so that no unwanted, non-equal servo travel is created. It is suggested that less than 30 points of Sub-Trim be used during adjustment. If more than 30 points of Sub-Trim are required, it is suggested that a mechanical linkage adjustment be performed.

Accessing the Sub-Trim Function

1. Turn on the transmitter power switch.
2. Press the Scroll key to enter Function mode.
3. Press the Scroll key until "TRIM" appears in small letters to the left of the screen.
4. Press the Channel key to select the channel to be adjusted (Steering, Throttle or Auxiliary Channel 3).
5. Press the Increase or Decrease keys until the proper servo position is achieved.
6. Press the Scroll key to access the Servo Reversing function.
7. To exit the Function mode, either turn off the transmitter power switch or press the Scroll and Channel keys at the same time.

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Servo Reversing (Function Mode)

The Servo Reversing feature of the XR2i is a very convenient feature when setting up a new model. The purpose of the servo reversing function is to change the direction of the servo rotation in relation to the wheel/trigger movement. The Servo Reversing function is available for the steering and throttle of the XR2i.

Accessing the Servo Reversing Function

1. Turn the transmitter power switch on.
2. Press the Scroll key to access Function Mode.
3. Press the Scroll key until "REV.NORM" appears in small letters to the right of the screen.
4. Press the Channel key to select the channel to be changed (ST = Steering, TH = Throttle).
5. Press the Increase or Decrease keys to move the cursor to the desired direction.
6. To exit the Function mode, either turn off the transmitter power switch or press the Scroll and Channel keys at the same time.

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Accessing the Direct Trim Mode

The Direct Mode function of the XR2i is accessible through the use of the electronic throttle or steering trim levers, as well as the two electronic grip levers (A&B) located on the upper portion of the grip handle. This function allows for quick trim adjustment of these controls.

To access the Direct Trim Mode function, turn on the transmitter power switch. Next, move the desired trim lever to be adjusted. The appropriate screen for the selected trim lever will be displayed. To adjust, simply move the trim lever in the desired direction until the correct amount of trim is achieved. Once the desired trim is achieved, the screen will return to the Normal display screen after approximately two seconds from the last trim input. If the Increase or Decrease keys are pressed any time during the two seconds, the system will return to the previous screen in use.

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Steering Trim (STC)

The XR2i electronic Steering Trim lever, located just above the steering wheel, allows the center position of the servo to be manipulated in either direction to achieve precise centering of the steering assembly. Steering travel end-point adjustment values (page 24) remain completely independent from the steering trim, unless the trim value exceeds the selected end-point values. (For example, if trim values are set at 30 and end-point values at 15, steering trim will over-ride/alter the end-point value.)

Each click will provide 0.3° of trim to the center of the steering servo with a maximum of 12° allowed.

Note: Each click will not always result in a change of the value displayed.

To adjust the steering trim servo position, move the electronic Steering Trim lever either to the left or the right. As soon as the trim is moved, the "STC" Steering Trim screen will appear and will continue to be displayed unless the trim lever is untouched for a period of two seconds. To reset the trim value to 0, press the Increase and Decrease keys at the same time while the "STC" screen is displayed.

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Throttle Trim (THC)

The XR2i's electronic Throttle Trim lever, located to the left of the steering wheel, allows the center position of the servo to be manipulated in either direction to achieve precise centering of the throttle trigger neutral position. Throttle end-point adjustment values (page __) remain completely independent from the throttle trim, unless the trim value exceeds the selected end-point values. (For example, if the trim value is set at 40 and the end-point values at 30, Throttle Trim will override/alter the end-point value.)

Each click will provide 0.3° of trim to the throttle servo with a maximum of 24° allowed.

Note: Each click will not always result in a change of the value displayed.

To adjust the Throttle Trim servo position, move the electronic steering trim lever either up or down. As soon as the trim is moved, the "THC" Throttle Trim screen will appear and will continue to be displayed unless the trim lever is untouched for a period of two seconds. To reset the trim value to zero, press the Increase and Decrease keys at the same time while the "THC" screen is displayed.

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Grip Lever B: Steering Dual-Rate Trim Adjustment (STG)

The Steering Dual-Rate adjustment, located at Grip Lever B, allows the Dual-Rate value (maximum servo travel) to be increased or decreased within a range from 100% through 20% of the total end point value established in the steering EPA function. This function is very useful in race conditions as it allows you to custom tailor the steering radius and sensitivity for the current track conditions.

Please note that since the Dual-Rate value shown in the "STG" screen is the percentage of the end-point value established in the Steering EPA function, the value will not always increase or decrease each time Grip Lever B is moved.

If the Emergency Steering button function (page __) is active, pressing Grip Button C will restore the steering dual rate to 100% until the button is released.

To adjust the Steering Dual-Rate value, move the electronic Grip Lever B either left (-) or right (+). As soon as the trim is moved, the "STG" Steering Dual-Rate screen will appear and will continue to be displayed unless the Grip Lever B is untouched for a period of two seconds. To reset the trim value to the factory preset setting of 70%, press the Increase and Decrease keys at the same time while the "STG" screen is displayed.

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Grip Lever A: Brake End-Point Adjustment BRK/Auxiliary Channel 3 Access

Brake End-Point Adjustment

The Brake End-Point Adjustment, located at Grip Lever A, allows the maximum servo travel on the braking side of the throttle trigger to be increased or decreased from 100% to 0% (off). This function is very useful in race conditions as it allows the racer to custom tailor the "panic" brake value to maximize the car's braking power for the current track conditions. Please note that since the Brake End-Point value shown in the "BRK" screen

is a percentage of the total braking value established in the End-Point Adjustment function (page __), the value will not always increase or decrease each time the Grip Lever A is moved.

To adjust the brake endpoint value, move the electronic Grip Lever A either left (-) or right (+). As soon as the grip lever is moved, the BRK End-Point Adjustment screen will appear and will continue to be displayed unless the Grip Lever A is untouched for a period of two seconds.

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XR2i Data Sheet

System Mode
MODEL NUMBER 1 2
MODEL NAME
GRIP BUTTON C O/Eb

Function Mode
STEERING THROTTLE
END-POINT ADJUSTMENT L _____ R _____ F _____ B _____
SUB-TRIM
SERVO REVERSING REV/NORM REV/NORM

Direct Mode
TRIM STEERING THROTTLE
VALUES -/+ -/+
GRIP LEVER B
STEERING D/R %
BRAKE EPA
GRIP
LEVER A VALUES %

System Mode
MODEL NUMBER 1 2
MODEL NAME
GRIP BUTTON C O/Eb

Function Mode
STEERING THROTTLE
END-POINT ADJUSTMENT L _____ R _____ F _____ B _____
SUB-TRIM
SERVO REVERSING REV/NORM REV/NORM

Direct Mode
TRIM STEERING THROTTLE
VALUES -/+ -/+
GRIP LEVER B
STEERING D/R %
BRAKE EPA
GRIP
LEVER A VALUES %

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Frequency Chart

| FREQUENCY (MHZ) | CHANNEL | FREQUENCY (MHZ) | CHANNEL | FREQUENCY (MHZ) | CHANNEL |
|-----------------|---------|-----------------|---------|-----------------|---------|
| 26.995 |1 | | | | |
| 27.045 |2 | | | | |

| | |
|--------------|----|
| 27.095 | 3 |
| 27.145 | 4 |
| 27.195 | 5 |
| 27.255 | 6 |
| 75.410 | 61 |
| 75.430 | 62 |
| 75.450 | 63 |
| 75.470 | 64 |
| 75.490 | 65 |
| 75.510 | 66 |
| 75.530 | 67 |
| 75.550 | 68 |
| 75.570 | 69 |
| 75.590 | 70 |
| 75.610 | 71 |
| 75.630 | 72 |
| 75.650 | 73 |
| 75.670 | 74 |
| 75.690 | 75 |
| 75.710 | 76 |
| 75.730 | 77 |
| 75.750 | 78 |
| 75.770 | 79 |
| 75.790 | 80 |
| 75.810 | 81 |
| 75.830 | 82 |
| 75.850 | 83 |
| 75.870 | 84 |
| 75.890 | 85 |
| 75.910 | 86 |
| 75.930 | 87 |
| 75.950 | 88 |
| 75.970 | 89 |
| 75.990 | 90 |

Transmitter Crystal Replacement Notice

The Federal Communications Commission (FCC) requires that changes in transmitter frequency must be performed only by an authorized service technician (Horizon Service Center). Any transmitter frequency changes made by a non-certified technician may result in a violation of the FCC rules.

Warranty and Service Information

Note: Be sure to keep your original dated sales receipt in a safe place as you will be required to provide proof of purchase date for the equipment to be serviced under warranty.

Warranty Coverage

Your new JR Remote Control Radio System is warranted to the original purchaser against manufacturer defects in material and workmanship for 3 years from the date of purchase. During this period, Horizon Service Center will repair or replace, at our discretion and at no cost to the purchaser, any component that is found to be factory defective. This warranty is limited to the original purchaser of the unit and is not transferable.

This warranty does not apply to any unit that has been improperly installed, mishandled, abused or damaged in a crash or to any unit which has been repaired or altered by any unauthorized agencies. Under no circumstances will the buyer be entitled to consequential or incidental damages. This limited warranty gives you specific legal rights; you also have other rights, which may vary from state to state. As with all fine electronic equipment, do not subject your radio system to extreme temperatures, humidity or moisture. Do not leave it in direct sunlight for long periods of time.

Repair Service Directions

In the event that your JR radio needs service, please follow the instructions listed below.

1. Check all on/off switches to be sure they are off. This will speed the repair process of checking battery condition.
2. Return your system components only (transmitter, receiver, servos, etc.). Do not return your system installed in a model car, boat, etc.
3. Preferably, use the original carton/packaging (molded foam container) or equivalent to ship your system. Do not use the system carton itself as a shipping carton. You should package the system carton within a sturdy shipping container using additional packing material to safeguard against damage during transit. Include complete name and address information inside the carton, as well as clearly writing it on the outer label/return address area.
4. Include detailed information explaining your operation of the system and problem(s) encountered. Provide an itemized list of equipment enclosed and identify any particular area/function, which may better assist our technicians in addressing your concerns. Date your correspondence and be sure your complete name and address appear on this enclosure.
5. Include your name, mailing address and a phone number where you can be reached during the business day.
6. Within your letter, advise us of the payment method you prefer to use. The Horizon Service Center accepts only VISA or MasterCard. Please include your card number and expiration date.

Warranty Repairs

To receive warranty service, you must include your original dated sales receipt to verify your proof-of-purchase date. Providing that warranty conditions have been met, your radio will be repaired without charge.

Normal Non-Warranty Repairs

Should your repair cost exceed 50% of the retail purchase cost, you will be provided with an estimate advising you of your options.

Ship your system to:

Horizon Service Center
4105 Fieldstone Road
Champaign, IL 61822
Phone: (217) 355-9511

(UPC=4944013000366

Item#= JRPM128

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