Engineered Sound

ESW-T211 UHF UniPak™ Transmitter

Installation and Operation



Notice to individuals <u>with implanted cardiac</u> pacemakers or AICD devices:

Any source of RF (radio frequency) energy *may* interfere with normal functioning of the implanted device. All wireless microphones have low-power transmitters (less than 0.05 watts output) which are unlikely to cause difficulty, especially if they are at least a few inches away. However, since a "body-pack" mic transmitter typically is placed against the body, we suggest attaching it at the belt, rather than in a shirt pocket where it may be immediately adjacent to the medical device. Note also that *any medical-device disruption will cease when the RF transmitting source is turned off.* Please contact your physician or medical-device provider if you have any questions, or experience any problems with the use of this or any other RF equipment.

CAUTION! The circuits inside the receiver and transmitter have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open the receiver or transmitter. To do so will void the warranty, and may cause improper operation.

Introduction

Audio-Technica Engineered Sound® wireless systems are offered as separate receiver and transmitter units, rather than in predetermined combinations, for greatest system flexibility. Operating details for Engineered Sound receivers and overall system operation are included with each receiver.

Engineered Sound receivers feature a sophisticated Tone Lock™ tone squelch system that opens only when an Engineered Sound transmitter is detected, reducing the possibility of interference. As a result, Engineered Sound transmitters and receivers must be used together and should not be used with components from other Audio-Technica wireless systems, or with those of other manufacturers.

Please note that in multiple-system applications there must be a transmitter-receiver pair set to a separate frequency for each input desired (only one transmitter at a time for each receiver). Because the wireless frequencies are on UHF TV frequencies, only certain wireless frequencies may be useable in a particular geographic area. Also, only certain of the available operating frequencies may be used together. (Suggestions for multiple-system frequency grouping will be found on pages 10-11.)

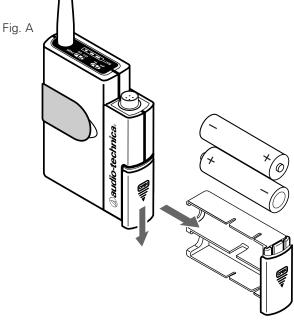
Transmitter Setup

Battery Selection and Installation

The transmitter uses two 1.5V AA batteries, not included. Alkaline type is recommended. Always replace both batteries. *Make certain the transmitter power switch is turned Off before replacing batteries.*

Battery Installation

1. Slide down the battery latching cover and pull out the battery drawer as shown in Figure A. (A screwdriver for adjusting operating frequency is stored on the back of the drawer.)



2 3

2. Observe correct polarity as marked inside the battery compartment and carefully insert two fresh 1.5V AA alkaline batteries. Because there is some variation in actual battery dimensions, make certain the batteries are *fully* seated in the battery compartment.

3. Carefully insert the battery drawer fully, *but do not force the drawer in.* Then slide the cover up to latch the drawer

Battery Condition Indicator

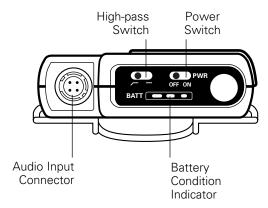
After the batteries are installed, turn the power on. The red battery condition indicator LED on the user control panel should flash momentarily and the green indicator should come on. If this does not happen, the batteries are installed incorrectly or they are dead. If the yellow or red indicator stays on, the battery voltage is low and the batteries should be replaced. If this happens during use, replace the batteries immediately to ensure continued operation.

Transmitter Input Connection

Connect an audio input device (microphone or guitar cable) to the audio input connector beside the user control panel (Fig. B).

A number of Audio-Technica professional microphones and cables are available separately, pre-terminated with a UniPak™ input connector (see "Transmitter Accessories" on page 9).

Fig. B User Control Panel



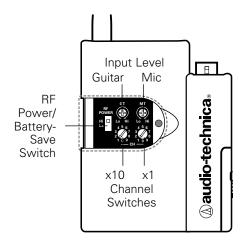
Transmitter Controls

(Refer to Fig. B, User Control Panel)

POWER SWITCH: The Power switch controls the entire transmitter. Its handle is designed to be felt and activated easily even through clothing or other garments. There is about a half-second delay after transmitter turn-on before the receiver's Tone Lock squelch un-mutes.

HIGH-PASS SWITCH: The ESW-T211 offers an audio high-pass switch which reduces low frequencies, when desired. It affects only the microphone input and is recessed to avoid accidental activation. Use this switch to reduce pickup of low-frequency noise caused by clothing and/or user movement.

Fig. C Setup Control Panel



(Refer to Fig. C, Setup Control Panel)

INPUT TRIMMERS: These controls permit adjustment of Mic Level (MT) and Guitar Level (GT) to match a wide range of input devices, as described in a following section. The trimmer *not* in use should be set to minimum.

CHANNEL SWITCHES: The left channel selector switch corresponds to the receiver's left-column channel display number (tens); the right switch corresponds to the receiver's right-column channel display number (units). Always turn the transmitter off when changing frequencies.

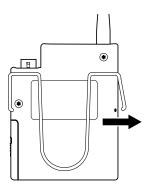
RF POWER / BATTERY-SAVE SWITCH: As supplied, the switch is set in the "Hi" position for maximum range. Switching to the "Lo" position increases battery life somewhat by reducing power. (Note: Effective range may decrease when the switch is set at the Lo position.)

4 5

Mounting Clips

The ESW-T211 is supplied with two mounting clips for attachment to different types/shapes of objects. Attach the clips by springing their ends into the two holes on the sides of the transmitter case (Fig. D). The clips may be installed with the case positioned either "up" or "down," depending upon which is preferred for the application.

Fig. D

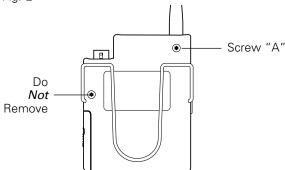


Transmitter Antenna

The ESW-T211 features a field-replaceable antenna, in the unlikely event that it becomes damaged. Use only an original Audio-Technica replacement part, available from the Audio-Technica service department.

- 1. Referring to Figure E, fully unscrew only screw "A" and remove it. Do *not* remove the other case screw.
- 2. Pull the broken antenna straight out of the transmitter case, without twisting it.
- 3. *Carefully* insert the replacement antenna, without twisting it, and without damaging the PC board trace. Look in the open hole "A" to assure that the antenna is fully seated.
- 4. Reinstall screw "A," tightening only until it is snug.

Fig. E



System Operation

Turn down the mixer/amplifier level before starting up the wireless system.

Switch on the receiver. Do *not* switch on the transmitter yet.

Receiver On...

The Channel Designator Display will light. If any of the RF LEDs light up at this point, there may be RF interference in the area. If this occurs, select another frequency using the front-panel channel selectors. While holding in the "Set" button, press the "Up" or "Down" button to access the desired frequency; then release the Set button to select the channel.

Transmitter On...

Before turning on the transmitter, use the provided screwdriver to set the transmitter channel selector switches (Fig. C) to the same numbers as those displayed on the receiver. Always turn the transmitter off when changing frequencies. When the transmitter is switched on and in normal operation, the receiver's RF signal level indicators will light up from left to right. For optimum performance at least four, and preferably five, of the signal strength indicators should light up when the transmitter is switched on. One of the Tuner LEDs (A or B) also will light up when the transmitter is on, indicating that its signal has been received and the receiver's Tone Lock squelch circuit has opened.

Setting Levels

Although Engineered Sound receivers require no level adjustment, correct adjustment of transmitter audio input and mixer/amplifier input and output levels is important for optimum system performance.

Transmitter Input Levels

Input trimmer controls in the UniPak transmitter (Fig. C) will enable you to use microphones or instruments with different output levels.

- 1. Set both the transmitter Mic Level (MT) and Guitar Level (GT) controls to their full counter-clockwise position (minimum). (The level control not being used should always be set to minimum.)
- 2. Plug the mic or instrument into the transmitter and power up the system.
- 3. For MIC: Make an initial adjustment of the mixer's level controls that will allow audio through the system as you increase the transmitter's Mic Level.

For INSTRUMENT: Make an initial adjustment of the instrument amplifier input level control that will allow audio through the system as you increase the transmitter's Guitar Level.

4. For MIC: While speaking/singing into the microphone at typically-loud levels, turn up the transmitter's Mic Level (MT) control until the maximum audio output of the mic lights about three or four green LED segments on the receiver's AF Level indicator.

For INSTRUMENT: While playing the instrument at typically-loud levels, turn up the transmitter's Guitar Level (GT) control until the maximum audio output of the instrument lights about three or four green LED segments on the receiver's AF Level indicator.

NOTE: Do not set the transmitter level too high (as indicated by lighting of the red LED) – doing so will cause the system to overload and distort.

5. For MIC: Next, while again speaking/singing into the microphone at typically-loud levels, adjust the mixer's input trim control so the highest sound pressure level going into the microphone causes no input overload in the mixer, and yet permits the mixer's channel and output level controls to operate in their "normal" range (not set too high or too low).

For INSTRUMENT: Next, while again playing the instrument at typically-loud levels, adjust the amplifier's input control so the highest signal level causes no overload in the instrument amplifier.

CAUTION! The small trimmer controls are delicate; use only a small screwdriver or alignment tool with a maximum ³/₃₂"-wide blade. Do not force the trimmers beyond their normal 260° range of rotation.

RF Interference

Please note that wireless frequencies are shared with other radio services. According to Federal Communications Commission regulations, "Wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-Government operation, the wireless microphone must cease operation..."

If you need assistance with operation or frequency selection, please contact your dealer or the Audio-Technica professional division. Extensive wireless information also is available on the Audio-Technica Web site at www.audio-technica.com.

Tips To Obtain The Best Results

- Use only fresh alkaline batteries. Do not use "general purpose" (carbon-zinc) batteries.
- The transmitter and the receiver should be as close together as conveniently possible, but no closer together than three feet. Maintain line-of-sight between them whenever possible.
- Each transmitter/receiver pair must be set to the same channel number.
- A single receiver cannot receive signals from two transmitters at the same time.
- You need to change channels 1) when a strong interference signal is received, 2) when the channel breaks down, or 3) during multiple-system operation in order to select an interference-free channel.
- The "MT" or "GT" input control not in use should be set to minimum.
- Turn the transmitter off when not in use. Remove the batteries if the transmitter is not to be used for a period of time.

Specifications[†]

OVERALL SYSTEM	
Operating Frequency	UHF band, 728.125 to 740.500 MHz
Number of Channels	100 total
Frequency Stability	±0.005%, Phase Lock Loop frequency control
Modulation Mode	FM
Normal Deviation	±5 kHz
Tone Squelch Frequency	32.768 kHz
Operating Range	300' typical
Operating Temperature Range	41° F (5° C) to 113° F (45° C)
Frequency Response	100 Hz to 15 kHz

ESW-T211 UNIPAK™ TRANSMITTER

	, , <u>-</u> , ,
RF Power Output	50 mW Max (Hi: 10 mW; Lo: 5 mW, typical)
Spurious Emissions	Under federal regulations
Input Connections	High impedance, low impedance, bias
Bias Voltage	5V, 5 mA Max
High-pass (low-freq. roll-off)	150 Hz, 6 dB per octave (mic input only)
Batteries	Two 1.5V AA type alkaline, not included
Current Consumption	Hi: 130 mA; Lo: 120 mA, typical
Battery Life	Hi: 12 hours; Lo: 14 hours, typical (depending on battery type and use pattern)
Dimensions	2.56" (65.0 mm) W x 6.57" (167.0 mm) H x 1.02" (26.0 mm) D
Net Weight (without batteries)	2.7 oz (75 grams)
Accessory Included	Alternate mounting clip

[†] In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

Transmitter Accessories

MT830cW MT830R subminiature omnidirectional condenser microphone only. Includes clothing clip and windscreen. MT830cW-TH "Theater" model, same as MT830cW except beige color mic and cable for concealment. AT831cW AT831b miniature cardioid condenser microphone only. Includes clothing clip and windscreen. AT851cW AT851a surface-mount wide-range hemi-cardioid condenser microphone only. AT857AMLc 19" gooseneck cardioid microphone only Mounts to 5/6"-27 thread. Includes windscreen. AT889cW Headworn noise-canceling condenser microphone only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with 1/4" phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	AT829cW	AT829 miniature cardioid condenser microphone only. Includes clothing clip and windscreen.
color mic and cable for concealment. AT831cW AT831b miniature cardioid condenser microphone only. Includes clothing clip and windscreen. AT851a surface-mount wide-range hemi-cardioid condenser microphone only. AT857AMLcw AT857AMLa 19" gooseneck cardioid microphone onl Mounts to "/s"-27 thread. Includes windscreen. AT889cW Headworn noise-canceling condenser microphone only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cw ATM73a headworn cardioid condenser microphone only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcw PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with "/4" phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	MT830cW	MT830R subminiature omnidirectional condenser microphone only. Includes clothing clip and
only. Includes clothing clip and windscreen. AT851cW AT851a surface-mount wide-range hemi-cardioid condenser microphone only. AT857AMLcw AT857AMLa 19" gooseneck cardioid microphone only Mounts to 5/s"-27 thread. Includes windscreen. AT889cW Headworn noise-canceling condenser microphone only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. Includes windscreen and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with 1/4" phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	MT830cW-TH	
condenser microphone only. AT857AMLcW AT857AMLa 19" gooseneck cardioid microphone only Mounts to 5/s"-27 thread. Includes windscreen. AT889cW Headworn noise-canceling condenser microphone only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with 1/s" phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	AT831cW	
Mounts to 5/s"-27 thread. Includes windscreen. AT889cW Headworn noise-canceling condenser microphone only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with 1/s" phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	AT851cW	
only. Includes windscreen and cable clip. ATM35cW ATM35 high-intensity miniature cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with ¹/₄* phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	AT857AMLcW	AT857AMLa 19" gooseneck cardioid microphone only. Mounts to 5/s"-27 thread. Includes windscreen.
microphone only. Includes AT8418 clip-on instrument mount. ATM73cW ATM73a headworn cardioid condenser microphone only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with '/* phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	AT889cW	
only. ATM75cW ATM75 headworn cardioid condenser microphone only. Includes windscreens and cable clip. PRO 8HEcW PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with ¹/₄* phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	ATM35cW	microphone only. Includes AT8418 clip-on instrument
only. Includes windscreens and cable clip. PRO 8HEx windscreens and cable clip. PRO 8HEx headworn hypercardioid dynamic microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with '\s'' phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	ATM73cW	
microphone. Includes windscreen and cable clip. PRO 35xcW PRO 35x cardioid condenser microphone only. Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with ¹/₄¹ phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	ATM75cW	
Includes AT8418 clip-on instrument mount. AT-GCW Hi-Z instrument/guitar cable with ¹/₄* phone plug. XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	PRO 8HEcW	
XLRW Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones wi	PRO 35xcW	
XLRF-type input connector, for Lo-Z microphones wi	AT-GCW	Hi-Z instrument/guitar cable with 1/4" phone plug.
	XLRW	Connecting cable for UniPak transmitter with an XLRF-type input connector, for Lo-Z microphones with XLRM-type output terminations.

8 9

Engineered Sound® UHF Wireless Operating Frequencies

Frequency and Channel Designator List

00 728.125 57 50 734.375 58 01 728.250 57 51 734.500 58 02 728.375 57 51 734.500 58 03 728.500 57 57 52 734.750 58 04 728.625 57 54 734.750 58 05 728.750 57 56 735.000 58 06 728.875 57 56 735.000 58 07 729.000 57 57 56 735.250 58 08 729.125 57 58 735.200 58 08 729.125 57 58 735.500 58 09 729.250 57 58 735.500 58 10 729.375 57 60 735.500 58 11 729.500 57 60 735.500 58 12 729.625 57 60 735.500 58 13 729.750 57 61 735.750 58 13 729.750 57 62 735.500 58 14 729.875 57 62 735.875 58 13 729.750 57 62 735.875 58 14 729.875 57 62 735.875 58 15 730.000 57 67 63 736.000 58 16 730.125 57 66 736.255 58 17 730.250 57 65 736.250 58 18 730.375 57 65 736.250 58 18 730.375 57 65 736.250 58 18 730.375 57 65 736.250 58 18 730.375 57 68 736.650 58 18 730.375 57 69 736.650 58 19 730.500 57 67 69 736.650 58 19 730.500 57 69 736.650 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.250 58 22 730.875 57 71 737.250 58 24 731.125 57 76 77 737.250 58 24 731.125 57 76 77 737.250 58 25 731.250 58 26 731.250 57 79 79 738.875 58 27 731.500 58 28 731.625 57 79 79 738.875 58 29 731.750 58 20 730.750 57 79 738.875 58 21 730.750 57 79 738.875 58 22 730.875 57 79 7373.725 58 23 731.000 57 79 73 737.250 58 24 731.125 57 76 77 7373.750 58 25 731.250 57 79 737.250 58 26 731.375 57 88 737.850 58 27 731.500 57 79 737.850 58 28 731.625 57 79 737.500 58 29 731.750 57 79 737.500 58 30 731.875 57 88 737.875 58 31 732.250 57 88 738.875 58 31 732.250 57 89 739.250 58 31 732.250 57 89 739.250 58 31 732.250 57 89 739.250 58 31 732.250 5	Designator	Frequency (MHz)	TV Channel	Designator	Frequency (MHz)	TV Channel
01 728,250 57 51 734,500 58 02 728,375 57 52 734,625 58 03 728,500 57 52 734,625 58 04 728,625 57 54 734,875 58 05 728,750 57 55 735,000 58 06 728,750 57 55 735,000 58 06 728,875 57 56 735,100 58 07 728,000 57 57 57 735,250 58 08 729,125 57 58 735,250 58 09 729,250 57 59 735,500 58 10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 11 729,500 57 61 735,750 58 12 729,625 57 63 736,300 58 13 729,750 57 63 736,000 58 14 729,875 57 62 735,875 58 15 730,000 57 65 736,250 58 16 730,125 57 66 736,250 58 16 730,125 57 66 736,250 58 17 730,250 57 69 736,500 58 18 730,375 57 68 736,250 58 18 730,375 57 69 736,500 58 18 730,375 57 69 736,500 58 19 730,600 57 69 736,500 58 20 730,625 57 69 736,500 58 21 730,750 57 70 736,870 58 22 730,875 57 70 736,870 58 23 731,000 57 77 70 736,875 58 24 731,125 57 74 737,375 58 25 731,250 57 76 737,375,500 58 26 731,375 57 79 737,375,500 58 27 731,500 57 79 738,500 58 28 731,250 57 79 738,500 58 29 731,750 57 79 738,500 58 30 731,875 57 79 738,500 58 31 732,250 57 79 738,500 58 32 731,000 57 79 738,500 58 33 731,000 57 79 738,500 58 34 731,250 57 79 738,500 58 35 731,250 57 79 738,500 58 36 732,250 57 86 738,375 58 37 732,750 57 88 739,125 58 38 732,250 57 89 738,500 58 39 733,750 57 89 738,500 58 30 731,875 57 80 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 79 738,500 58 31 732,250 57 79 738,500 58 31 732,250 57 79 738,500 58 31 732,250 57 79 738,500 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 86 738,875 58 31 732,250 57 89 738,800 58 32 731,250 57 89 738,800 58 33 731,250 57 89 738,800 58 34 732,375 57 89 738,800 58 34 732,375 57 89 738,800 58 34 732,375 57 89 738,800 58 34 732,375 57 89 738,800 58 34 732,375 57 89 738,800 58 34 732,375 57 89 738,800 58 35 732,500 57 89 738,800 58 36 732,625 57 89 738,800 58 37 732,750 57 89 738,800 58 38 732,575 57 89 738,800 58 39 733,500 57 89 738,800 58 39 733,500 57 89 738,800 58 39 733,500 57 89	00	728.125	57	50	734.375	58
02 728,375 57 52 734,625 58 03 728,500 57 53 734,750 58 04 728,625 57 54 734,875 58 05 728,750 57 55 73,000 58 06 728,875 57 56 735,000 58 06 728,875 57 56 735,000 58 07 729,000 57 57 57 735,125 58 08 729,125 57 58 735,375 58 09 729,250 57 59 735,500 58 10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 12 729,625 57 62 735,875 58 13 729,750 57 63 736,000 58 14 729,875 57 64 736,125 58 15 730,000 57 64 736,625 58 16 730,125 57 64 736,25 58 17 730,250 57 66 736,25 58 18 730,375 57 68 736,375 58 19 730,350 57 67 68 736,375 58 19 730,350 57 68 736,625 58 20 730,625 57 69 736,650 58 21 730,350 57 70 736,650 58 22 730,875 57 70 736,650 58 23 731,000 57 70 736,650 58 24 731,25 57 70 736,675 58 25 731,25 57 70 736,875 58 26 731,25 57 70 736,875 58 27 731,500 57 77 77 737,125 58 28 731,25 57 78 79 737,100 58 29 731,500 57 79 79 738,000 58 24 731,25 57 79 74 737,375 58 26 731,25 57 79 738,000 58 27 731,500 57 79 738,000 58 28 731,25 57 79 738,000 58 29 731,500 57 79 738,000 58 30 731,875 57 79 738,000 58 31 732,250 57 79 738,000 58 33 732,250 57 79 738,000 58 34 732,250 57 79 738,000 58 35 732,500 57 89 738,750 58 36 732,500 57 89 738,750 58 37 732,500 58 38 733,255 57 89 738,500 58 39 733,000 57 89 738,500 58 30 731,875 57 88 738,375 58 31 732,500 57 79 738,000 58 33 732,250 57 89 738,500 58 34 732,250 57 89 738,500 58 34 732,250 57 89 738,500 58 35 732,500 57 89 738,500 58 36 732,625 57 89 738,500 58 37 732,500 58 79 79 738,000 58 38 732,875 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,500 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,500 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 58 39 733,000 57 89 738,500 59 39 733,000 57 99 738,500 59 39 733,000 57 99 738,500 59 39 733,000 59 79 99 730,000 59 39				51	734.500	58
03 728 500 57 53 734 750 58 04 728 825 57 54 734 750 58 05 728 750 57 55 735 000 58 06 728 875 57 56 735 250 58 06 728 875 57 56 735 250 58 07 729 000 57 57 57 735 250 58 08 729 125 57 58 735 375 58 10 729 375 57 59 735 300 58 11 729 375 57 60 735 625 58 11 729 500 57 61 735 625 58 11 729 825 57 62 735 800 58 12 729 825 57 62 735 800 58 13 729 750 57 63 736 000 58 14 729 875 57 63 736 000 58 15 730 000 57 64 736 125 58 16 730 125 57 66 736 373 000 58 16 730 125 57 66 736 373 000 58 17 730 300 57 65 736 59 736 500 58 18 730 375 57 68 736 250 58 19 730 500 57 67 736 500 58 19 730 500 57 67 736 500 58 19 730 500 57 68 736 625 58 20 730 825 57 70 736 873 69 736 750 58 21 730 730 50 57 71 737 000 58 22 730 875 57 68 736 750 58 24 731 125 57 70 70 736 875 58 24 731 125 57 77 77 737 730 00 58 24 731 125 57 74 737 730 00 58 24 731 125 57 75 77 74 737 300 58 24 731 125 57 76 77 73 737 300 58 25 731 125 57 76 77 73 737 300 58 26 731 1375 57 78 79 72 737 125 58 26 731 1375 57 79 79 73 737 300 58 26 731 1375 57 79 79 738 300 58 27 731 1500 57 77 73 737 300 58 28 731 125 57 76 73 73 737 300 58 29 731 1750 58 30 731 1875 57 78 77 79 738 500 58 30 731 1875 57 78 79 738 500 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 77 77 737 750 58 31 732 200 57 87 79 738 500 58 31 732 200 57 87 89 738 500 58 31 732 200 57 89 738 500 58 31 732 250 57 80 738 50 58 31 732 250 57 80 73				52	734.625	58
04 728 625 57 54 734 875 58 05 728 750 55 728 750 58 05 728 750 57 55 735 000 58 06 728 750 57 57 55 735 000 58 06 728 875 57 57 57 735 250 58 07 729 000 57 57 57 735 250 58 09 729 250 57 59 735 500 58 10 729 250 57 60 735 625 58 11 729 500 57 60 735 625 58 11 729 500 57 61 735 750 58 12 729 750 57 62 735 750 58 12 729 8625 57 62 738 875 58 13 729 750 57 63 736 000 58 14 729 375 57 64 736 125 58 15 730 000 57 65 736 25 58 16 730 250 57 65 736 250 58 16 730 250 57 65 736 250 58 16 730 250 57 65 736 250 58 16 730 250 57 65 736 250 58 16 730 250 57 65 736 250 58 16 730 250 57 65 736 250 58 16 730 250 57 67 736 500 58 18 730 375 57 68 736 625 58 18 730 375 57 68 736 625 58 19 730 500 57 67 736 500 58 18 730 375 57 69 736 625 58 19 730 500 57 67 736 500 58 18 730 375 57 69 736 625 58 19 730 500 57 67 736 500 58 20 730 625 57 67 730 500 57 69 736 625 58 21 730 750 57 71 737 700 58 22 730 375 57 71 737 700 58 23 731 000 57 72 73 737 250 58 24 731 125 57 74 74 737 375 58 24 731 125 57 74 74 737 375 58 26 731 1350 57 75 74 737 730 50 58 23 731 100 57 77 77 737 737 750 58 23 731 100 57 77 73 737 250 58 26 731 1350 57 79 738 000 58 23 731 150 57 79 93 730 000 58 23 731 150 57 93 730 150 58 23 730 1						
06 728,750 57 55 736,000 58 06 728,875 57 56 735,125 58 07 729,000 57 57 58 735,250 58 08 729,125 57 59 735,500 58 09 729,250 57 59 735,500 58 10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 12 729,625 57 62 735,875 58 13 729,750 57 61 735,750 58 14 729,875 57 64 736,125 58 13 729,750 57 67 63 736,000 58 14 729,875 57 64 736,125 58 15 730,000 57 65 736,237 58 16 730,125 5						
06 728,875 57 56 735,125 58 07 729,000 57 57 735,250 58 08 729,125 57 58 735,375 58 09 729,250 57 59 735,600 58 10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 12 729,625 57 62 735,875 58 13 729,750 57 63 736,000 58 14 729,875 57 64 736,125 58 13 729,750 57 63 736,000 58 14 729,875 57 66 736,125 58 15 730,000 57 65 736,235 58 16 730,250 57 66 736,375 58 17 730,0375 57 68						
07 729 000 57 57 735 250 58 08 729 125 57 58 735 375 58 09 729 250 57 59 735 500 58 10 729 375 57 60 735 625 58 11 729 5500 57 61 735 750 58 11 729 550 57 62 735 875 58 11 729 875 57 62 735 875 58 13 729 750 57 63 736 000 58 14 729 875 57 64 736 125 58 15 730 000 57 65 736 25 58 16 730 125 57 66 736 250 58 17 730 000 57 65 736 25 58 18 730 375 57 66 736 250 58 18 730 375 57 67 67 736 500 58 18 730 375 57 68 736 625 58 19 730 500 57 68 736 625 58 19 730 500 57 68 736 625 58 19 730 500 57 68 736 625 58 19 730 500 57 69 736 750 58 20 730 625 57 70 736 875 58 21 730 750 57 77 70 736 875 58 22 730 875 57 72 737 125 58 24 731 125 57 72 737 125 58 24 731 125 57 74 737 3750 58 25 731 250 57 75 77 73 737 3750 58 26 731 375 57 76 737 737 737 500 58 27 731 500 57 77 77 737 750 58 28 731 625 57 76 73 73 737 250 58 29 731 730 57 77 78 737 750 58 29 731 750 57 77 78 73 737 850 58 30 731 875 57 78 78 73 850 58 31 732 000 57 80 738 13 738 250 58 30 731 875 57 80 738 800 58 31 732 000 57 80 738 800 58 32 732 125 57 82 738 800 58 33 732 250 57 84 738 800 58 34 732 375 57 86 738 800 58 35 732 550 57 87 89 738 500 58 36 732 625 57 86 738 875 58 37 732 750 58 38 732 125 57 86 738 875 58 39 733 000 57 87 87 739 938 500 58 30 731 875 57 88 739 850 58 31 732 250 57 86 738 875 58 33 732 250 57 89 738 500 58 34 733 250 57 89 738 500 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 34 733 350 57 89 739 250 58 35 732 550 57 89 739 250 58 36 732 550 57 89 739 250 58 36 732 550 57 89 739 250 58 37 732 750 57 89 739 250 58 38 732 750 57 89 739 250 58 38 733 730 55 57 89 739 250 58 38 733 730 55 57 99 739 39 250 58 38 733 730 55 57 99 739 250 58 38 733 730 55 57 99 739 250 58 38 733 730 55 57 99 739 250 58 38 733 730 55 57 99 739						
68 729 126 57 58 735 375 58 09 729 250 57 59 735 500 58 10 729 375 57 60 735 625 58 11 729 500 57 61 735 750 58 12 729 625 57 62 735 875 58 13 729 750 57 63 736 000 58 14 729 875 57 64 736 125 58 14 729 875 57 64 736 125 58 14 729 875 57 64 736 125 58 15 730 000 57 66 736 250 58 16 730,125 57 67 736 50 58 17 730,250 57 67 77 736 800 58 19 730,500 57 69 736 750 58 20 736 625 58 21 7						
09 729,250 57 59 735,500 58 10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 11 729,500 57 61 735,750 58 11 729,500 57 62 735,875 58 13 729,750 57 62 735,875 58 14 729,875 57 63 736,000 58 14 729,875 57 64 736,125 58 15 730,000 57 65 736,250 58 16 730,125 57 66 736,250 58 16 730,125 57 66 736,375 58 17 730,250 57 67 736,500 58 18 730,375 57 68 736,625 58 19 730,500 57 68 736,625 58 19 730,500 57 69 736,750 58 20 730,625 57 70 736,875 58 21 730,750 57 71 737,000 58 22 730,875 57 72 731,125 58 23 731,000 57 73 737,250 58 24 731,125 57 74 737,375 58 25 731,250 57 75 73 737,500 58 26 731,375 57 76 737,500 58 26 731,375 57 76 737,500 58 27 731,500 57 77 73 737,500 58 28 731,625 57 76 737,875 58 29 731,750 57 76 737,605 58 30 731,875 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 30 731,875 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 78 73 737,875 58 31 732,000 57 81 738,250 58 31 732,000 57 81 738,250 58 31 732,000 57 81 738,250 58 31 732,000 57 81 738,250 58 31 732,000 57 81 738,250 58 31 732,250 57 86 738,250 58 33 732,250 57 86 738,500 58 34 732,375 57 86 738,500 58 35 732,250 57 86 738,500 58 36 732,255 57 86 738,500 58 37 732,750 57 88 739,900 58 38 732,250 57 86 738,750 58 39 733,000 57 89 739,250 58 30 733,875 58 31 732,250 57 86 738,750 58 31 732,250 57 86 738,750 58 31 732,250 57 86 738,750 58 32 732,250 57 86 738,750 58 33 732,250 57 86 738,750 58 34 732,375 57 86 739,900 58 34 732,375 57 86 739,900 58 34 732,375 57 86 739,900 58 34 732,375 57 86 739,900 58 34 732,375 57 86 739,900 58 35 732,500 57 89 739,900 58 36 732,625 57 86 739,900 58 37 732,750 57 86 739,900 58 38 732,605 57 86 739,900 58 38 732,605 57 86 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 58 39 733,000 57 89 739,900 59 39 733,000 57 99 739,900 59 39 733,000						
10 729,375 57 60 735,625 58 11 729,500 57 61 735,750 58 11 729,625 57 62 738,875 58 113 729,750 57 63 736,000 58 114 729,875 57 64 736,025 58 115 730,000 57 65 736,25 58 116 730,125 57 66 736,250 58 117 730,125 57 66 736,250 58 118 730,375 57 68 736,625 58 119 730,375 57 68 736,625 58 120 730,625 57 69 736,750 58 121 730,750 57 70 736,875 58 122 730,825 57 70 738,875 58 123 731,000 57 71 737,000 58 124 731,125 57 74 737,375 58 125 731,250 57 74 737,375 58 126 731,375 57 76 737,373,750 58 127 731,375 57 76 737,373,750 58 128 731,250 57 74 737,375 58 130 731,375 57 76 737,3750 58 131 732,000 57 77 737,3750 58 132 731,375 57 76 737,625 58 133 731,000 57 77 78 737,500 58 134 731,255 57 78 78 737,500 58 135 731,250 57 78 78 737,500 58 136 731,375 57 79 738,000 58 137 732,000 57 77 737,3750 58 138 731,625 57 78 79 738,000 58 139 731,750 57 79 738,000 58 130 731,875 57 80 738,125 58 131 732,000 57 81 738,250 58 132 732,125 57 80 738,375 58 133 732,250 57 86 738,375 58 134 732,250 57 86 738,375 58 135 732,500 57 87 89 738,000 58 136 732,250 57 86 738,375 58 137 732,250 57 86 738,375 58 138 732,250 57 86 738,375 58 139 733,250 57 86 738,375 58 130 733,250 57 86 738,375 58 131 732,000 57 87 739,000 58 132,675 57 86 738,375 58 134 732,250 57 86 738,375 58 135 732,500 57 87 739,000 58 136 732,250 57 86 738,375 58 137 732,500 57 87 739,000 58 138 732,250 57 86 738,375 58 139 733,250 57 86 738,375 58 130 733,250 57 86 738,375 58 131 732,500 57 87 739,000 58 132,675 57 86 738,375 58 134 732,250 57 86 738,375 58 135 732,500 57 87 739,000 58 136 733,250 57 87 739,000 58 137 732,500 57 86 738,375 58 138 732,500 57 89 739,500 58 139 733,375 57 99 739,500 58 130 733,875 57 99 739,500 58 130 733,875 57 99 739,500 58 131 733,250 57 99 739,500 58 132 732,500 57 99 739,500 58 133 732,500 57 99 739,500 58 134 732,500 57 99 739,500 58 135 732,500 57 99 739,500 58 136 732,500 57 99 739,500 58 137 732,500 57 99 739,500 58 138 732,500 57 99 739,500 59 139,500 59 79 739,500 59 139,500 59 79 79 79,500 59 139,500 59 79 79 79,500 59 139,500 59						
11 729.605 57 61 735.750 58 12 729.625 57 62 735.875 58 13 729.750 57 63 736.000 58 14 729.875 57 64 736.125 58 15 730.000 57 65 736.250 58 16 730.125 57 66 736.375 58 16 730.250 57 67 736.500 58 18 730.375 57 68 736.625 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.825 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.255 58 24 731.250 57 73 7						
12 729.625 57 62 735.875 58 13 729.750 57 63 736.000 58 14 729.875 57 64 736.125 58 15 730.000 57 65 736.250 58 16 730.125 57 66 736.375 58 17 730.250 57 67 736.500 58 18 730.375 57 69 736.500 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 23 731.250 58 24 731.250 57 74 737.37.35 58 25 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
13 729.750 57 63 736.000 58 14 729.875 57 64 736.125 58 15 730.000 57 65 736.250 58 16 730.125 57 66 736.350 58 17 730.250 57 67 736.500 58 18 730.375 57 68 736.625 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 7						
14 729.875 57 64 736.125 58 15 730.000 57 65 736.250 58 16 730.125 57 66 736.375 58 17 730.250 57 67 736.500 58 18 730.375 57 68 736.625 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 24 731.250 57 73 737.250 58 24 731.250 57 73 737.375 58 25 731.250 57 76 7						
15 730.000 57 65 736.250 58 16 730.125 57 66 736.375 58 17 730.250 57 67 736.500 58 18 730.375 57 68 736.625 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 24 731.250 57 75 737.500 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.750 58 27 731.500 57 77 7						
16 730.125 57 66 736.375 58 17 730.250 57 67 736.500 58 18 730.375 57 69 736.500 58 19 730.600 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.875 57 78 7	14	729.875				
17 730.250 57 67 736.500 58 18 730.375 57 68 736.625 58 19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.375 58 26 731.375 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 738.00 58 29 731.750 57 79 73	15	730.000	57			
18 730.375 57 68 736.625 58 19 730.600 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 73.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 73.625 58 27 731.500 57 77 73.750 58 28 731.625 57 78 737.750 58 28 731.750 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.	16	730.125	57			
19 730.500 57 69 736.750 58 20 730.625 57 70 738.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 7	17	730.250	57		736.500	
19 730.500 57 69 736.750 58 20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 31 732.250 57 82 7	18	730.375	57	68	736.625	58
20 730.625 57 70 736.875 58 21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 78 737.875 58 30 731.875 57 78 737.875 58 31 732.020 57 79 738.000 58 31 732.000 57 81 738.250 58 33 732.250 57 83 7				69	736.750	58
21 730.750 57 71 737.000 58 22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 33 732.250 57 84 738.625 58 36 732.625 57 85 738.750 58 36 732.875 57 86 738.750 58<				70	736.875	58
22 730.875 57 72 737.125 58 23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 77.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 31 732.000 57 81 738.250 58 33 732.250 57 82 738.375 58 33 732.500 57 84 738.625 58 35 732.500 57 86 73						
23 731.000 57 73 737.250 58 24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 31 732.000 57 81 738.375 58 32 732.125 57 82 738.375 58 33 732.250 57 82 738.375 58 34 732.350 57 84 738.625 58 35 732.500 57 85 7						
24 731.125 57 74 737.375 58 25 731.250 57 75 737.500 58 26 731.375 57 76 737.500 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 7						
25 731.250 57 75 737.500 58 26 731.375 57 76 737.625 58 27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 31 732.000 57 81 738.375 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.355 57 84 738.750 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 7						
26 731,375 57 76 737,625 58 27 731,500 57 77 737,750 58 28 731,625 57 78 73,7875 58 29 731,750 57 79 738,000 58 30 731,875 57 80 738,125 58 31 732,000 57 81 738,250 58 32 732,125 57 82 738,375 58 33 732,250 57 83 738,625 58 34 732,375 57 84 738,625 58 35 732,500 57 85 738,750 58 36 732,625 57 86 738,875 58 37 732,750 57 87 739,000 58 38 732,875 57 88 739,125 58 39 733,000 57 89 7						
27 731.500 57 77 737.750 58 28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 86 738.875 58 38 732.875 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 7						
28 731.625 57 78 737.875 58 29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 7						
29 731.750 57 79 738.000 58 30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.625 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.625 58 43 733.500 57 92 7						
30 731.875 57 80 738.125 58 31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.625 58 43 733.500 57 92 739.625 58 44 733.625 57 94 7						
31 732.000 57 81 738.250 58 32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59<						
32 732.125 57 82 738.375 58 33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 89 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59<						
33 732.250 57 83 738.500 58 34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
34 732.375 57 84 738.625 58 35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59		732.125				
35 732.500 57 85 738.750 58 36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59	33		57			
36 732.625 57 86 738.875 58 37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59	34	732.375	57		738.625	
37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59	35	732.500	57		738.750	
37 732.750 57 87 739.000 58 38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59	36	732.625	57	86	738.875	58
38 732.875 57 88 739.125 58 39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59				87	739.000	58
39 733.000 57 89 739.250 58 40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59				88	739.125	58
40 733.125 57 90 739.375 58 41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
41 733.250 57 91 739.500 58 42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
42 733.375 57 92 739.625 58 43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
43 733.500 57 93 739.750 58 44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
44 733.625 57 94 739.875 58 45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
45 733.750 57 95 740.000 59 46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
46 733.875 57 96 740.125 59 47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
47 734.000 58 97 740.250 59 48 734.125 58 98 740.375 59						
48 734.125 58 98 740.375 59	46	/33.8/5	5/		740.125	59
48 734.125 58 98 740.375 59	47	734.000	58	97	740.250	59
· · · · · · · · · · · · · · · · · · ·				98	740.375	59
				99	740.500	59

Multi-channel Systems

76, 77, 86

Following are groupings of frequencies suggested for multi-channel wireless systems.

Group A: Channels 00, 02, 08, 15, 46, 50, 60 (or 62), 71, 76, 80, 93, 99 -*or*-Group B: Channels 01, 03, 07, 25, 30, 41, 44, 56, 69,

For use where TV Channel 57 is operating: Channels 50, 60 (or 62), 71, 76, 80, 93, 99 (from Group A) -*or*-Channels 56, 69, 76, 77, 86 (from Group B) For use where TV Channel 58 is operating: Channels 00, 02, 08, 15, 46, 99 (from Group A) -or-Channels 01, 03, 07, 25, 30, 41, 44 (from Group B)

For use where TV Channel 59 is operating: Channels 00, 02, 08, 15, 46, 50, 60 (or 62), 71, 76, 80, 93 (from Group A) -or-Channels 01, 03, 07, 25, 30, 41, 44, 56, 69, 76, 77, 86 (All of Group B) For future reference, please record your system information here (the serial number appears inside the battery compartment):

Transmitter ESW-T211

Serial Number

___ ___ ___ ___

One-Year Limited Warranty

Audio-Technica professional wireless systems purchased in the U.S.A. are warranted for one year from date of purchase by Audio-Technica U.S., Inc. (A.T.U.S.) to be free of defects in materials and workmanship. In event of such defect, product will be repaired promptly without charge or, at our option, replaced with a new product of equal or superior value if delivered to A.T.U.S. or an Authorized Service Center, prepaid, together with the sales slip or other proof of purchase date. **Prior approval from A.T.U.S.** is required for return. This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use product in accordance with the instructions. This warranty is void in the event of unauthorized repair or modification, or removal or defacing of the product labeling.

For return approval and shipping information, contact the Service Dept., Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224.

Except to the extent precluded by applicable state law, A.T.U.S. will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Outside the U.S.A., please contact your local dealer for warranty details.



Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224 330/686-2600 www.audio-technica.com