

TO EXPAND YOUR SYSTEM
Call Toll-Free 1-888-811-9944



Replacement and Expansion Part Numbers

- SY100** Sylencer[®] Sound Isolating Microphone
- AT110** Athcom Open-Air Headset Microphone

- T36** 16 Selectable Channel Transmitter

- R37** 1-Channel Programmable Receiver
- R35-8** 8-Channel Selectable Receiver
- R1600** Portable FM Speaker

- IC2** Interpreters Console

- EARHK** Replacement EarHook Earphones
- EARRP** Replacement Earpads for Earphones
- NKL001** Neckloop for T-Coil Hearing Aids

For other products available from TalkTech
see our website www.TalkTech.com and
click on "Products".



INSTRUCTION MANUAL and WARRANTY



TalkTech[®]
TalkSystem Language and ALD Solutions
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CONTACT US:

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WARRANTY

TalkTech's Transmitters and Receivers are engineered and designed to provide you with many years of reliable service. TalkTech warrants against defects in materials and workmanship of transmitters and receivers for FIVE (5) years. Earphones, headphones, microphones, chargers, cables, antennas, carry cases, and all other accessory products carry a 90-day warranty.

If the product fails within the specified warranty period, TalkTech will determine whether to repair or replace the defective equipment. This warranty does not apply to intentional physical damage, abuse, misuse, or products that have been modified.

If you experience difficulty with your system, call your Account Rep. first. If he/she is not able to assist you, call **1-888-811-9944**.

If it is necessary to return the system for service call **1-888-811-9944** and a Customer Service Representative will give you shipping instructions.

Your warranty becomes effective the date you purchase your system.

***DISCLAIMER: FCC RULES LIMIT USE OF THIS EQUIPMENT TO AUDITORY ASSISTANCE**

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

TalkSystem® is a Registered Trademark of Talk Technologies Inc.
 Sylencer® is a Registered Trademark of Talk Technologies Inc.
 TalkTech® is a Registered Trademark of Talk Technologies Inc.

- Note: Care should be taken to prevent the foam from being compressed around the microphone(s) - it should simply fit loosely around the mic(s) as it was shipped. Also note that the foam should not be pushed into the breathing tube opening.
- To reseal the facepiece on the handle, the lines on the handle and facepiece should align exactly. Then press around the outside edges of the facepiece where it meets the handle to ensure it is properly seated. Finally, check inside where the facepiece overlaps the handle to ensure the lip is seated all around the inside slot of the facepiece. The facepiece can be fitted on the handle upside down or downside up but most prefer the facepiece fitted the way it is shipped.
- During periods of long, continuous use of the Sylencer some users may experience a build-up of condensation in the breathing tube. In extreme situations this moisture may drip out of the tube. Most users do not experience this situation, but if this does happen, there is a simple solution. Take a small piece, about one-quarter of a facial tissue (Kleenex), fold it over 1-4 times and place it over the top of the tube, even stuffing it loosely into the top of the tube. Discard and replace the tissue when it gets wet. The amount of tissue and how it is situated in the tube depends on your individual comfort and how much back-pressure you experience while speaking into the mask. Whether you are using the mouth-only or over-nose facepiece will also effect the back-pressure. Just experiment a bit to find what is comfortable for you. Finally, keep in mind that the moisture that collects in the mask and tube is not spit or saliva. Rather it is simply the normal water moisture from your breath.

Cleaning

Important: Do Not use Alcohol or alcohol based products to clean the inside of your mask.

- To prolong the life of your facepieces, wash them regularly in warm soapy water. The foam can be washed at the same time. Do not allow dirt or cosmetic stains to accumulate on the facepiece. If you use facial tissues in your mask replace them after each session.
- When the foam is removed, wipe the interior walls of the handle as well as the other interior parts to keep them clean and sanitary.

CAUTION: Do not wet the microphone. While the microphone is moisture-proof under normal speaking conditions, no assurance can be made that it will function properly if the microphone is saturated with any liquid.

Language Interpretation

Language interpretation is generally more difficult than dictation but all the same rules of breathing and speaking as discussed above, still apply.

Because of the difficulty of real time language translation it is more likely the translator will lag behind the speaker. In that case, it is best to prearrange with the speaker to slow down or stop when you raise your hand (or some other signal).

REMEMBER

1. DO NOT BREAK THE SEAL around the face even slightly WHEN SPEAKING.
2. DO NOT TAKE LITTLE "SNIPS" AND "SNATCHES" OF BREATH every few seconds. The person whose words you are repeating also has to stop talking to inhale-- no one can talk and inhale at the same time! It takes a half-second to inhale normally. The average speaker will only say two words in that half-second. You won't miss anything.
3. DO NOT TAKE A HUGE, DEEP BREATH. If you do, during pauses you will find yourself holding the air in your lungs in anticipation of the next word.

When not actually speaking into the Sylencer, move it away from your chin slightly. This is more comfortable during pauses and will help you to relax. Do not remove it completely from your face during short pauses. Simply tilt it slightly upward at the bottom, away from your chin, so that it breaks the seal around your face. It is then a simple matter to again press it snugly against your face when you resume speaking.

*** CARE AND MAINTENANCE ***

1. Be sure the Sylencer is disconnected from your recorder, transmitter or computer.
2. To remove the facepiece from the handle, place your thumb and finger on the inside and outside of the facepiece where it meets the handle--lift up gently and peel the facepiece away. Note: To keep the facepiece clean and sanitary, it should be removed and washed regularly.
3. Inside the handle you will find fitted pieces of acoustic foam. Always re-install the foam in the same way. The foam absorbs the moisture in your breath while speaking into the Sylencer. The foam also assists in keeping the Sylencer sanitary and helps to deaden the sound of your voice. Like the facepiece, the foam should be removed and washed regularly. If you prefer, you can use 5-6 facial tissues or nursing pads instead of the foam, or some combination of these.



INTRODUCTION

The FM TalkSystem is a portable, high-performance, wireless system that allows one-way transmission of a user's voice to group members by using a FM radio signal. The TalkSystem can be used for large or small groups, in noisy or quiet environments.

The Transmitter

The T36 Transmitter is a battery-powered belt pack that is used with a voice silencing (Sylencer®) or headset microphone to pick up the user's voice. The transmitter produces an FM radio signal to broadcast the user's voice to the receiver units. The transmitter operates on 2 "AA" alkaline (LR6) disposable batteries or 2 "AA" NiMH (HR6) rechargeable batteries.

The Sylencer or other headset microphone plugs into the "MIC" jack on top of the transmitter. The microphone cord acts as the Transmitting antenna. (For information on proper use of the Sylencer see the Sylencer Section on Page 16)

The R35 and R37 Receivers

The R35 and R37 Receivers are battery-powered belt packs that are used with earphones to hear the signal produced by the Transmitter. The Receiver is pre-tuned to the Transmitter and has a user-adjustable volume control. The earphones plug into the "earphone" jack on top of the Receiver. Rotating the volume control wheel turns on the receiver. The receiver operates on 2 AA alkaline disposable batteries or 2 AA NiMH rechargeable batteries.

The Dual Ear Hook Earphones offer an excellent sound quality in a unique style that hangs on the ear. They are easy to keep clean since the earphone does not enter the ear. They are not recommended for very high noise environments.

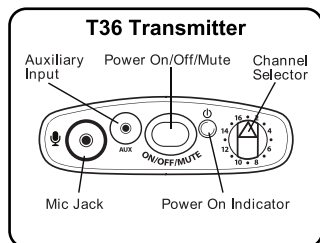
Foam earpads may be removed and washed in mild detergent, rinsed thoroughly, and air-dried. Replacement pads are also available from TalkTech.

Other styles of earphones and headphones are available for use with your TalkSystem, contact us toll free for more information.

QUICK OPERATING INSTRUCTIONS

Transmitter Operation

T36 Transmitter

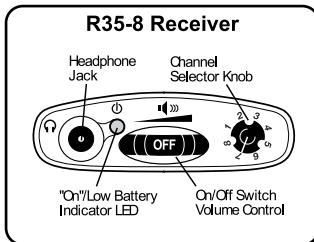
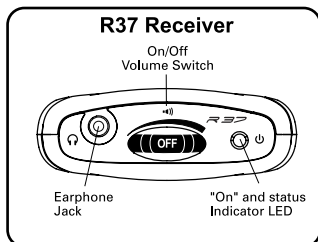


1. Install the batteries in the Transmitter. Two AA 1.5V alkaline batteries are included with the Transmitter. Open the battery door on the Transmitter by pushing the latch down and pulling the door down. Carefully insert the batteries, observing proper polarity. **DO NOT FORCE THE BATTERIES IN BACKWARDS. DAMAGE TO THE TRANSMITTER WILL RESULT!** Close the battery door by snapping it shut.
2. Plug the Sylencer or other microphone into the "MIC" jack on top of the Transmitter. A Headset Microphone boom should be positioned about one inch to the side of the user's mouth. Lapel Clip microphones should be attached to a collar or lapel, as close to the user's mouth as possible.
3. Turn the Transmitter on by **holding Power button for 5 seconds**. Always turn the Transmitter off before unplugging the Sylencer or other microphone.

Note: The microphone cord is the transmitting antenna. Do not bunch up or wrap it around the transmitter. Allow it to hang straight as possible.

**** Tune the Transmitter to channel 4 when using 1 channel receivers ****

Receiver Operation



1. Install the batteries in the Receiver. Close the battery door by snapping it shut.
2. Plug the headphones or earphones into the "earphone" jack on top of the Receiver.
3. Turn the Receiver on by rotating the volume control wheel. Adjust the volume to a comfortable level.

Hold the Sylencer snugly to your face and begin reading these instructions aloud in your **normal** voice. **DO NOT WHISPER! DO NOT SHOUT!**

If you feel air escaping around your face, press the facepiece more snugly against your face and try again.

Now, select any printed matter available -- newspaper, book or magazine -- and, for the next few minutes, read out loud into the Sylencer. Inhale by tipping the mask up or through the mask breather assembly whenever you feel the need. Don't hurry. Speak deliberately. Do so until you are comfortable with the use of your Sylencer.

Repeating What You Hear

Your concentration is now going to be directed along a new line -- **repeating what you hear spoken**. But first, be sure you have perfected your breathing and speaking techniques to the point where they are automatic reflexes.

Lagging Behind The Speaker

The secret to professional-sounding simultaneous repetition or interpretation is: Wait for the speaker to say several words before YOU begin repeating. Do not repeat the first word spoken as soon as you hear it. This technique enables you to eliminate "false starts."

For example: "Now, does --uh--let's see--where did I--er--ah--oh, yes, here it is--Now does everyone here have a copy of our agenda tonight?" You should not begin to repeat until at least the words "Now, does everyone here have..." Wait until the speaker has definitely launched into the presentation and then start repeating. You will catch up immediately.

Lagging behind offers another advantage. You will have more of a feeling for the "sense" of the question, answer or statement and will be able to inject more inflection, giving it some meaning, as opposed to simply mouthing each word as it is uttered.

In many situations, such as meetings, conferences, conventions and the like, you can exercise considerable discretion in omitting extraneous matter and, in fact, may be expected to do so.

There is no set rule as to how far to stay behind the speaker. Usually, five or six words are sufficient, but it will vary with the speed of the speaker.

For very slow speakers, stay well behind - ten or more words.

When repeating an extremely fast speaker, it is best to stay only a few words behind the speaker and repeat what you think you hear. If a word or phrase is not completely clear, do not stop to try and figure it out -- repeat what you think was said and move on.

Improper Breathing Techniques

1. Do not break the seal around the face even slightly when speaking. If you do, air will rush in from the sides and SOUND will rush out.
2. Do not take little "snips" or "snatches" of breath every few seconds. Inhale deeply enough so that you can talk for awhile.
3. Do not take an enormously deep breath. This can be physically uncomfortable and will tire you out very quickly. Moderation is key.

Proper Speaking Technique

The second most important technique you will learn is how to speak clearly into the Sylencer. We have all formed individual patterns of speech in our everyday conversation. When speaking with friends and family, conversation is easy. No effort is made to speak with clear enunciation or grammatically correct precision. Words flow out in a stream and run together, with words beginning and ending either slurred or completely missing.

For example, how many of us say "as a matter of fact," pronouncing five separate words distinctly? Few of us! We say "smatteruhfac." This is **lazy talk**. The lips hardly move. You need to speak clearly especially if you are using speech recognition software.

Remember: Each-time-you-speak-into-the-Sylencer, you-are-going-to-speak-each-syllable-of-each-word-clearly-and-distinctly.

The correct speaking voice is a soft one--as though speaking to a child. Speak softer than your normal voice but well above a whisper. Whispering is noisy! It often produces a high-pitched hissing sound as we speak. Whispering will distort the microphone's reception unless you are using the SmartMic and have adjusted for whispering.

The key to speaking in the proper voice lies in lowering the volume (loudness) of your voice but maintaining the same voice level by softening the sound (pitch). In other words, speak in an undertone. For example, pretend you want to talk without disturbing a sleeping child. You will automatically lower the loudness of your voice and speak in a soft undertone.

Speaking softly also has these additional advantages:

1. You can speak more clearly.
2. You can talk faster.
3. You can talk for a longer period of time with one breath.
4. You will be better able to hear others speaking.
5. You will be quieter.

Using the Sylencer may seem a little unusual at first but this feeling will vanish rapidly with just a little bit of practice.

Hints for Using the System

Normal operating distance between the Transmitter and Receiver is about 100 - 300 feet. The operating range will vary in different buildings and surroundings. In some locations, the signal may momentarily disappear. This is called a "drop-out" and is due to reflection and cancellation of the radio signal. Moving a few feet will restore the signal.

Keep the Transmitter and Receiver units at least six feet apart. If the Transmitter gets too close to a receiver, it can overload the Receiver, causing noisy reception or blocking of the signal.

Do not coil or bunch up the microphone or headphone cords. The cords act as antennas. Let them hang at full length for the best results.

Do not use more than one Transmitter on the same channel (frequency) at the same time unless they are physically separated by 50 to 100 feet. Operating more than one Transmitter on the same channel at the same time in the same place will result in interference.

Using Multiple Systems for Multiple Groups

For multiple language groups within the same facility, multiple systems may be operated on the same channel at the same time by maintaining physical separation of 50 - 100 feet between groups. The physical separation of groups takes advantage of the FM capture effect which causes receivers to lock onto the closest transmitter.

Up to sixteen TalkSystems can be operated simultaneously in the same facility if they all operate on different channels.

In Case of Difficulty

If your TalkSystem is not working, check the following:

1. Make sure the batteries are fresh or completely charged and installed with the correct polarity.
2. Make sure the Sylencer is plugged into the Transmitter and the earphones are plugged into the Receiver.
3. Move the Transmitter and Receiver closer together. You may be out of range. When using the system indoors, it is normal for the signal to momentarily disappear in certain locations. This is called a "drop-out". Moving a few feet will restore the signal.
4. Make sure that the Transmitter and Receivers are tuned to the same channel.
 - The transmitter should be on channel 4 with R35-1 receivers.
 - Use the "Seek" button in the R37 to "find" the transmitter.

- Do not try to use more than one Transmitter on the same channel in close proximity to each other. **MORE THAN ONE TRANSMITTER ON THE SAME CHANNEL WILL RESULT IN INTERFERENCE IF THEY ARE CLOSE TOGETHER.** Keep the systems 50-100 feet apart or use separate channels for each system used. If you need this type of feature, the IC2, Interpreters Console is designed for this. Contact us Toll-Free for more information on the IC2.
- If you are hearing interference on the Receivers, turn the Transmitter off and listen with a receiver. If you hear the interference with the Transmitter off, you need to change to a clear channel. Your transmitter and receivers can be tuned for up to eight channels. Contact us Toll-Free for assistance.

Light Code	Indicates	Description
No Button Light	Transmitter is OFF	Hold Button 5 Seconds to turn ON
Green Button Light	Transmitter is ON	Hold Button 5 Seconds to turn OFF
Red Flashing Button Light	Muted	Press button to un-mute
Power LED Flashing	Batteries are low	Batteries need to be replaced or recharged

Light Code	Indicates	Description
No LED	Receiver is OFF	Rotate volume to turn ON
Flashing LED	Batteries are low	Change batteries

Light Code	Indicates	Description
1 blink	Channel locked	Seek press remains on current channel
2 blinks	Channel unlocked	Seek press tunes to next channel present
3 blinks	Channel unlocked; no other channels present	Seek press attempts to find another channel
On-Off-On-Off... (continuous)	Batteries are low	Batteries need to be replaced or recharged
Fade-on, Fade-off... (continuous)	No transmitter present on current channel	Sleep/Power Save mode (extends battery life)

Hold the Sylencer snugly against your face and speak the following paragraph without stopping to take a breath:

"Four score and seven years ago our fathers brought forth on the continent a new nation, conceived in liberty and dedicated to the proposition that all men are created equal."

The next paragraph is definitely going to be too much for you to speak in one breath. Speak until you feel the normal desire to inhale. Then, tip the Sylencer away from the chin, inhale normally, press the mask back in place and continue speaking. This should be a smooth movement that, with practice, will become automatic.

Remember - exhale as you speak.

"Four score and seven years ago, our fathers brought forth on this continent a new nation, conceived in liberty and dedicated to the proposition that all men are created equal. Now we are engaged in a great civil war, testing whether that nation or any nation so conceived and so dedicated, can long endure. We are met on a great battlefield of that war. We have come to dedicate a portion of that field as a final resting-place for those who here gave their lives that this nation might live. It is altogether fitting and proper that we should do this. But in a larger sense, we cannot dedicate, we cannot consecrate, we cannot hallow here have consecrated it far above our poor power to add or detract. The world will little note nor long remember what we say here. But it can never forget what they did here. It is for us, the living, rather, to be dedicated to the great task remaining before us. That from these honoured dead, we take increased devotion to that cause for which they gave the last full measure of devotion; that we here highly resolve that these dead shall not have died in vain, that this nation under God shall have a new birth of freedom, and that government of the people, by the people, for the people, shall not perish from the earth."

Keep in mind that trying to speak and breathe normally with something over your nose and mouth is a totally new experience. Before long, you won't even think about it.

It is vital that the proper breathing technique be mastered before proceeding. Improper breathing will be reflected in difficulty with speaking.

* INSTRUCTIONS FOR USE *

Holding the Sylencer

The ergonomic design of the Sylencer allows you to hold the mask **naturally** for comfort and minimum effort.

Hold the Sylencer naturally in either hand with your thumb on the side and fingers lightly around the handle.

Place the facepiece snugly against your face... move it around slightly to find the most comfortable fit. You are now in the proper position to begin speaking into the Sylencer microphone. If you can not find a comfortable position, try using the other facepiece or turning the facepiece upside down.

The Sylencer breathing tube on your mask allows the air you expel when speaking to naturally escape without permitting the sound of your voice to be heard. **It is very important that the air does not escape between your face and the facepiece. If air escapes, sound escapes!**

Hold the Sylencer SNUGLY against your face and blow sharply. If you feel air escaping AROUND YOUR FACE, hold it more snugly or re-position the facepiece.

Proper Breathing Technique

It is very important that you learn how to expel used air as you speak and how to breathe fresh air while using the Sylencer.

Breathing while speaking into the Sylencer is done the same way as in ordinary conversation... we inhale through our nose and/or mouth and then expel air through the mouth as we speak. Do exactly the same thing when speaking into the Sylencer.

Do Not try to hold your breath while speaking!

When you run out of breath, you must stop talking to inhale.

The preferred method of inhaling air is to tilt the mask upward at the bottom, away from the chin, thus breaking the seal around your face. Breathe in fresh air and again press the facepiece snugly against your face, and resume speaking.

Of course, you also can breathe in fresh air through the air breather tube without removing the Sylencer from your face. However, **breathing only through the Sylencer for an extended period is not recommended!** During most breathing pauses, you will find it more relaxing to tip the Sylencer away from the chin. During longer pauses, you can remove the Sylencer completely.

PACEMAKER SAFETY



1. Before using this product with a pacemaker or other medical device, consult your physician or the manufacturer of your pacemaker or other medical device.
2. If you have a pacemaker or other medical device, make sure that you are using this product in accordance with safety guidelines established by your physician or the pacemaker manufacturer.

BATTERY SAFETY & DISPOSAL



Do not attempt to recharge disposable batteries, which may explode, release dangerous chemicals, cause burns, or other serious harm to the user or product.

RECYCLING INSTRUCTIONS



Help Talk Technologies and Williams Sound protect the environment! Please take the time to dispose of your equipment properly.

Product Recycling:

Please DO NOT dispose of your equipment in the household trash. Please take the equipment to an electronics recycling center; OR, contact us to return the product to the factory for proper disposal. 1-888-811-9944

Battery Recycling:

Please do NOT dispose of used batteries in the household trash.

Please take the batteries to a retail or community collection point for recycling.



THE SYLENCER® SELECT FEATURES

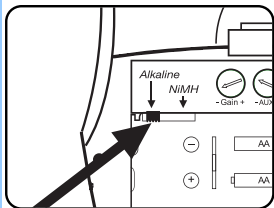
- Convertible - 2 interchangeable, snap-on face pieces for covering mouth only or mouth and nose for better voice silencing.
- Ergonomically designed and engineered.
- Lightweight, quiet, contoured design.
- Breathing tube allows user to speak and breathe without removing mask from face.
- One year parts and labor limited warranty.



T36 Operating Freq:	Selectable, 16 channels, 72.1 – 75.9 MHz* (channels 1-8 correspond with R35-8 receiver channels)
Stability:	± .005%, freq. synthesized, crystal reference, PLL
Modulation:	Wide-band FM, 75 kHz pk, 75 µS pre-emphasis
RF Output:	80 mV/m at 3 m (max. allowed by FCC rules)
Freq Response:	200 Hz to 13 kHz, ± 3 dB at 1% max. THD
Signal-to-Noise Ratio:	65 dB (typical) transmitted
Transmitter Antenna	Integral with microphone cord
Microphone Input:	3.5 mm Mono jack, adj. gain with 25 dB range
Aux Input:	2.5 mm Stereo jack, adj. gain with 60 dB range
Audio Compression:	1:1 or 2:1 ratio selected with slide switch
Battery Runtime:	Alkaline: 30 Hours, NiMH (BAT026): 20 Hours
Approvals/Directives:	FCC, Industry Canada, RoHS, WEEE
Warranty:	5 Year, parts and labor (90 days on accessories)

Note: FCC regulations, section 15.21, requires the user to comply with the rules of transmitter operation.

T36 TRANSMITTER OPERATING INSTRUCTIONS



IMPORTANT: If Alkaline (nonrechargeable) batteries are being installed, slide the battery selection switch in the battery compartment to the "Alkaline" position. See FIG. A left. If installing NiMH (or rechargeable) batteries, slide the battery selection switch to the "NiMH" position.

Fig. A: Battery Select

1. Install AA batteries: Open the battery compartment by pressing and lifting the tab on the back of the transmitter with your finger. Press the batteries into place over the fabric strip. Be sure to observe proper polarity (+/-). Damage due to improper battery installation may void the warranty on the product. Close the battery door. The "Power On" LED on top of the unit will flash when the batteries are getting low; you may continue to use until the unit quits operating, then replace or recharge batteries. To remove depleted batteries, pull up on the fabric strip.

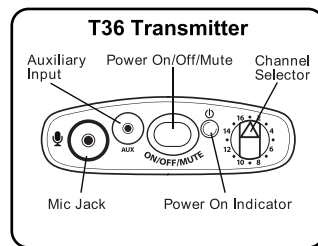


Fig. B: Transmitter

2. Plug the microphone cord into the "Mic Jack" on top of the transmitter (FIG. B). 3. Optionally, plug in a desired audio source such as a CD or MP3 player using the "Auxiliary Input" jack (WCA 087 stereo auxiliary input cable included). If mic and auxiliary sources are used together, the audio will be mixed. If only auxiliary source is desired, the mic can be muted. Do not remove the mic from the "Mic Jack" as the cable is also the transmitting antenna!

WARRANTY

Your new Syencer® is engineered and designed to provide you with many years of reliable service. Talk Technologies Inc. (TalkTech®) warrants against defects in materials and workmanship for one year, from date of purchase, EXCEPT facepieces, carry cases and other accessory products. Accessory products carry a 90 day warranty. This warranty does not apply to physical damage, products that have been tampered with, misused or modified. If a product fails within the specified warranty period, TalkTech® will have the option of repairing or replacing the defective equipment.

If you experience difficulty with your Syencer®, call toll free for Customer Service: 1-888-811-9944. If it is necessary to return the product for service or replacement your Customer Service Representative will give you a Return Authorization Number (RA) and shipping instructions. **Do not try to fix it yourself or use an unauthorized service center.**

For warranty issues, contact the manufacturer, Talk Technologies Inc. at 1-888-811-9944

R1600 Operating Freq: SLD 072 FM Receiver, 72-76MHz
Intermediate Freq: 10.7 MHz
FM Deviation: ± 75kHz Max
Sensitivity: 2 µV at 12 dB SINAD with squelch defeated
Freq Response: 65 Hz to 7 kHz ± 3 dB
Signal-to-Noise Ratio: 60 dB at 100 µV
Receiver Antenna: Threaded Mount for ANT028, 75 Ω
Audio Output: 101dB at 1 meter
Crossover: 1st Order passive at 8kHz
Tone Control: -6dB/octave sliding lowpass (3kHz to 8kHz)

Note: This device complies to "RSS-Gen Issue 2 June 2007" for Industry Canada and FCC part 15.105(b) for the United States.

R1600 SPEAKER FM INSTRUCTIONS

Connect the Power

Plug the AC power cord into an AC outlet and press the "POWER ON" switch to the ON position. The "" power LED on the front of the unit will illuminate RED to indicate standby mode.

Speaker Power:

Slide the OFF/AUTO/ON switch to the "ON" position to turn the speaker on (speaker stays on all the time). slide the OFF/AUTO/ON switch to the "AUTO" position to have the speaker turn on only when it detects an audio signal. The "power on" LED on the front of the unit will illuminate GREEN when an audio source is present.

Choose an Audio Source

Choose from three audio input sources: 1) SLD 072 FM Receiver; 2) Mic Input or 3) Line Level Input. Enabling more than one audio source will mix the signals together.

Turn on Power

Turn the rotary AUDIO LEVEL CONTROL clockwise to turn the SLD 072 FM receiver ON (you will hear a 'click' when the knob is turned from the OFF position). The "RF" LED indicator will illuminate RED when an RF signal is present.

Important: Make sure your PPA Transmitter (i.e. T35, T27, T36) is on and has an active audio source. Make sure the R1600 frequency matches your transmitter frequency!

Adjust the Audio Level:

First, make sure the MASTER VOLUME CONTROL on the front of the R1600 is at least 1/4 from max volume. Then rotate the AUDIO LEVEL CONTROL clockwise until you can hear the broadcast clearly. If the audio level is too low, it will sound noisy. If the audio level is too high, it will sound distorted.

4. Turn the unit on: press and hold the "ON/OFF/MUTE" button for three seconds. The "Power On" indicator should illuminate green.

T36 CH	Freq. (MHz)	Letter	R35-8 CH	T36 CH	Freq. (MHz)	Letter	R35-8 CH
1	72.1	A	1	9	72.5	C	-
2	72.3	B	2	10	72.2	K	-
3	72.6	O	3	11	72.4	N	-
4	72.8	P	4	12	72.7	D	-
5	74.7	I	5	13	72.9	E	-
6	75.4	R	6	14	75.3	J	-
7	75.7	G	7	15	75.6	S	-
8	75.9	H	8	16	75.8	T	-

Fig. C: Channel Chart

5. Select the desired operating frequency. Use the "Channel Selector" knob to select any of the 16 available channels on 72-76 MHz. Refer to the channel selection chart, FIG C. Make sure the receiver being used is operating on the same frequency as the T36 transmitter!

IMPORTANT: When the T36 transmitter is not being used, remember to turn the unit OFF by pressing and holding the "ON/OFF/MUTE" button for three seconds.

6. Position the headset microphone boom to the side of the mouth as close to the speaker's mouth as possible without actually touching. Lapel clip microphones should be attached to a collar or lapel, as close to the speaker's mouth as possible. The transmitter can be placed in a pocket, or clipped onto a belt or waistband.

7. When you pause from speaking, mute the microphone by pressing the "ON/OFF/MUTE" button once momentarily.

- The "ON/OFF/MUTE" button will flash red.
- To un-mute the mic, press the "ON/OFF/MUTE" button once momentarily again.

GAIN CONTROL

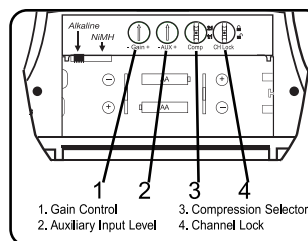


Fig. D: Gain Control

The gain control can be used to adjust the volume level on both the microphone and auxiliary input.

To adjust the volume level, open the battery door and locate the Gain Control (FIG. D). Use a plastic tuning wand and rotate to increase "+" or decrease "-" the gain.

AUXILIARY INPUT LEVEL

The auxiliary input level can be used to adjust the auxiliary input level only. To adjust, open the battery door and locate the Auxiliary Input Level (FIG. D). Use a plastic tuning wand and rotate to increase "+" or decrease "-" the input level.

Note: When using an auxiliary audio source, if the "Aux Input Level" is set too high, there can be increased audio distortion and decreased battery life.

COMPRESSION SELECTOR

By default, the T36 compression is set to "Off" for normal operation, or "1:1" compression. For hearing assistance applications, the compression selector can be set to "On" for "2:1" compression. To change this setting, open the battery door and locate the Compression Selector (FIG. D). To turn on compression (2:1), use a plastic tuning wand and slide the "Comp" switch to the position marked "2:1." To turn off, slide the "Comp" switch to the position marked "1:1."

CHANNEL LOCK

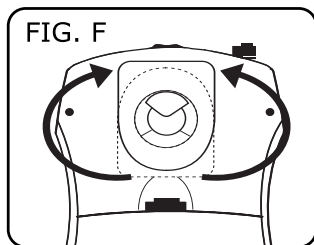
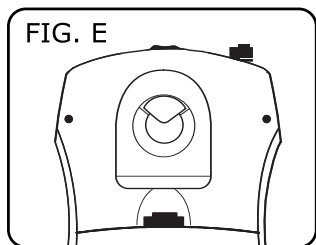
By default, the T36 channels are unlocked to allow the user to change frequencies as needed. If desired, channels can be locked to prevent users from changing the channels.

Note: The Channel Lock only locks the electronic frequency; it does not physically lock the channel selector knob. To lock or unlock channels, open the battery door and locate the Channel Lock (FIG. D). To lock the current channel, slide the "CH Lock" switch to the position marked " ". To unlock the channels, use a tuning wand and slide the "CH Lock" switch to the position marked " ".

LOW BATTERY INDICATOR

The "Power On" indicator (FIG. B, Page 7) will flash to indicate low battery level.

BELT CLIP INSTALLATION

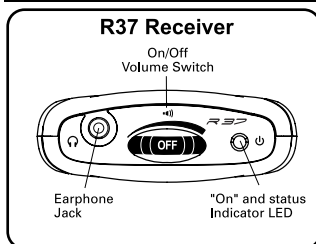


To Install: Position the belt clip on the rear of the T36 transmitter as shown in FIG. E. Turn the belt clip 180° left or right as shown in FIG. F. The belt clip is now installed and ready for use.

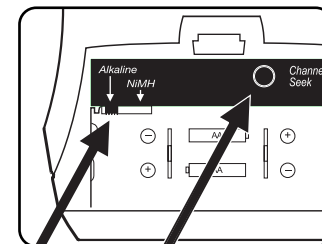
To Remove: Turn the belt clip 180° so the open end of the clip points to the top of the unit as shown in FIG. E. Gently pull the belt clip away from the unit to remove.

- R37 Operating Freq:** Programmable, 17 channels, 72.1 – 75.9 MHz (Push-button seek programming)
- FM Deviation:** ± 75kHz
- De-emphasis:** 75 µS
- Sensitivity:** 2 µV at 12 dB SINAD with squelch defeated
- Freq Response:** 200 Hz to 15 kHz ± 3 dB
- Signal-to-Noise Ratio:** 65 dB at 100 µV
- Receiver Antenna:** Integral with earphone/headphone cord
- Audio Output:** 35 mW, max 16 Ω load
- Output Jack:** Accepts 3.5 mm Mono or Stereo plug
- Battery Runtime:** Alkaline: 48 Hours, NiMH (BAT026): 30 Hours
- Approvals/Directives:** FCC, Industry Canada, RoHS, WEEE
- Warranty:** 5 Year, parts and labor (90 days on accessories)

Note: This device complies to "RSS-Gen Issue 2 June 2007" for Industry Canada and FCC part 15.105(b) for the United States.



R37 RECEIVER



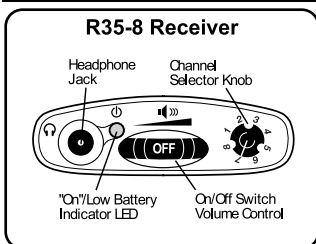
1. Insert the headphone, earphone or neckloop into the output jack.
2. Turn the receiver on by turning the volume control up. The green power LED will blink and then turn on continuously.
3. Press the Channel Seek button inside battery compartment once to seek an active transmitter. See FIG A. If more than one transmitter is being used, push the seek button additional times until you locate the signal you want to hear. Receiver will retain the channel setting when the unit is turned off.
4. To lock or unlock a channel, turn the power off. While holding the seek button down, turn the power back on.

LED CODES

Light Code	Indicates	Description
1 blink	Channel locked	Seek press remains on current channel
2 blinks	Channel unlocked	Seek press tunes to next channel present
3 blinks	Channel unlocked; no other channels present	Seek press attempts to find another channel
On-Off-On-Off... (continuous)	Batteries are low	Batteries need to be replaced or recharged
Fade-on, Fade-off... (continuous)	No transmitter present on current channel	Sleep/Power Save mode (extends battery life)

R35-1 Operating Freq:	Pre-tuned 72 MHz—76 MHz
FM Deviation:	75 kHz
De-emphasis:	75 μS
Sensitivity:	2 μV at 12 dB SINAD with squelch defeated
Freq Response:	100 Hz to 15 kHz ± 3 dB
Signal-to-Noise Ratio:	65 dB at 10 μV
Receiver Antenna	Integral with earphone/headphone cord
Audio Output:	35 mW, 16 Ω load
Output Jack:	Accepts 3.5 mm Mono plug
Battery Runtime:	Alkaline: 100 Hours, NiMH (BAT026): 56 Hours
Approvals/Directives:	FCC, Industry Canada, RoHS, WEEE
Warranty:	5 Year, parts and labor (90 days on accessories)

Note: This device complies to "RSS-Gen Issue 2 June 2007" for Industry Canada and FCC part 15.105(b) for the United States.



R35-8 RECEIVER OPERATING INSTRUCTIONS

OPERATING THE RECEIVER

1. Insert two (2) AA batteries ensuring correct polarity.
2. Insert the headphone, earphone or neckloop into the output jack.
3. Turn the receiver on by rotating the volume control knob clockwise. The receiver's ON indicator should illuminate green.
4. Adjust the volume control for your comfort.
5. To turn the receiver off, rotate the volume control knob counter-clockwise until it clicks off. The receiver's ON indicator should go dark.

To maximize battery life, remember to turn the receiver off when it's not in use.

- When the sound becomes weak or distorted, replace or recharge the batteries.

NOTE: The ON indicator will illuminate RED to indicate low battery.

SAFETY INFORMATION

Hearing Safety:  CAUTION!

This product is designed to amplify sounds to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing and the hearing of others:

1. Make sure the volume is turned down before putting on the earphone or headphone before adjusting the volume to a comfortable level.
2. Set the volume level at the minimum setting that you need to hear.
3. Do not allow children or other unauthorized persons to have access to this product.

RECEIVER OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

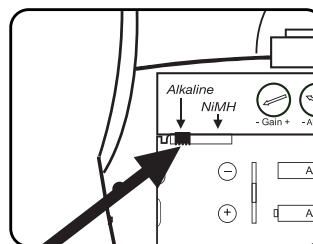


Fig. A: Battery Select

1. Install AA batteries: Open the battery compartment by lifting the tab on the back of the receiver with your finger.
2. To remove depleted batteries, pull up on the fabric strip.

IMPORTANT: If Alkaline (non-rechargeable) batteries are being installed, slide the battery selection switch in the battery compartment to the "Alkaline" position. See FIG. A, left. If installing NiMH (or rechargeable) batteries, slide the battery selection switch to the "NiMH" position.

Press the batteries into place over the fabric strip. Be sure to observe proper polarity (+/-). Damage due to improper battery installation may void the warranty on the product. Close the battery door. LED will flash when the batteries are getting low; continue to use until the sound becomes weak or distorted, or the unit quits operating, then replace or recharge batteries.

2. Plug the earphone or headphone into the Headphone jack on the receiver's control panel.
3. Turn the receiver on by rotating the Volume control knob. The ON Indicator should illuminate RED.

Specific receiver instructions continued on next page

4. **IF YOU HAVE AN R35-8;** Select the channel you'd like by turning the channel selector on the control panel. Choose between 8 standard frequencies: 72.1, 72.3, 72.6, 72.8, 74.7, 75.4, 75.7, or 75.9 MHz.

Important: Make sure the receiver frequency matches the transmitter frequency!

5. Adjust the volume to a comfortable listening level.
6. To turn the receiver off, rotate the Volume control knob to the left until it clicks off. The ON indicator should not be lit. To prolong the battery life of the unit, turn the receiver off when it is not in use.

Low Battery Indicator

The "On" indicator on top of the unit will flash or illuminate red to indicate low battery.

Recharging

If the R35-1, R37 or R35-8 are equipped with rechargeable batteries, up to 12 units can be charged at one time in the optional CHG3512 multicharger.

Refer to Williams Sound Corp. CHG3512 charger instruction sheet for complete charging instructions.

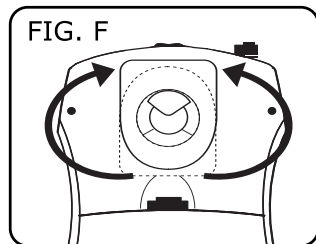
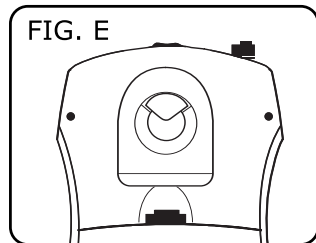
Earpad Cleaning

Do not immerse the earphone in water or other cleaning agent. Foam pads may be removed and washed with a mild laundry soap solution, rinsed thoroughly, and air dried.

BELT CLIP INSTALLATION

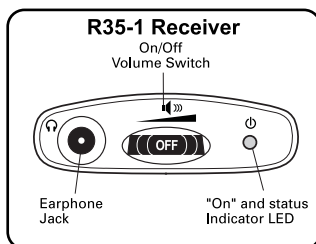
To Install: Position the belt clip on the rear of the T36 transmitter as shown in FIG. E. Turn the belt clip 180° left or right as shown in FIG. F. The belt clip is now installed and ready for use.

To Remove: Turn the belt clip 180° so the open end of the clip points to the top of the unit as shown in FIG. E. Gently pull the belt clip away from the unit to remove.



R35-1 Operating Freq:	Pre-tuned 72 MHz—76 MHz
FM Deviation:	75 kHz
De-emphasis:	75 µS
Sensitivity:	2 µV at 12 dB SINAD with squelch defeated
Freq Response:	100 Hz to 15 kHz ± 3 dB
Signal-to-Noise Ratio:	65 dB at 10 µV
Receiver Antenna	Integral with earphone/headphone cord
Audio Output:	35 mW, 16 Ω load
Output Jack:	Accepts 3.5 mm Mono plug
Battery Runtime:	Alkaline: 100 Hours, NiMH (BAT026): 56 Hours
Approvals/Directives:	FCC, Industry Canada, RoHS, WEEE
Warranty:	5 Year, parts and labor (90 days on accessories)

Note: This device complies to "RSS-Gen Issue 2 June 2007" for Industry Canada and FCC part 15.105(b) for the United States.



R35-1 RECEIVER OPERATING INSTRUCTIONS

OPERATING THE RECEIVER

1. Insert two (2) AA batteries ensuring correct polarity.
2. Insert the headphone, earphone or neckloop into the output jack.
3. Turn the receiver on by rotating the volume control knob clockwise. The receiver's ON indicator should illuminate green.
4. Adjust the volume control for your comfort.
5. To turn the receiver off, rotate the volume control knob counter-clockwise until it clicks off. The receiver's ON indicator should go dark.

To maximize battery life, remember to turn the receiver off when it's not in use.

- When the sound becomes weak or distorted, replace or recharge the batteries.

NOTE: The ON indicator will turn blinking RED to indicate low batteries.