



**ADDENDUM TO HW-2026 RECALL HotM #111**

Attached are the letters that were found in an envelope included with the manual for the HW-2026. the previous owner's name has been deleted for privacy reasons.

Item 1. The letter from Joseph J. Schneblen, President of Schlumberger products Corporation, St. Joseph, MI explaining the reason for the recall and the return procedure. At the time the Heathkit Electronic Centers were run by Schlumberger

Item 2. The letter from the president of Heathkit, David Nurse, W8GCD that accompanied item 1, and was stapled to it. (This letter was also included in the HotM #111 article.)

Item 3. The envelope from the Houston, Texas Heathkit Electronic Center at 3705 Westheimer Ave. 77027 (A unit of Schlumberger Products Corp.)

Item 4. The letter enclosed in item 3 envelope, to a purchaser of a HW-2026. It is a short note, commenting that the enclosed article from *HR Report* explains "quite well" the reason for the recall. The letter also includes a hand written P.S. to the recipient stating that the store had not yet received their recalled HW-2026 radio. The letter stated that "Heathkit is anxious to recall all of these units." The letter includes the HR report attachment. The note is a bit hard to read ad is reprinted on page 6

Item 5. The HR Report for December 26th, 1975 explaining the reason for the recall. The first page of the report also includes an article on insurance of mobile radios. Item 5 is an attachment to Item 4.

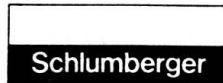
Item 6. The a reproduction of the ad announcing the new successful HW-2036 replacement for the recalled HW-2026. The announcement came one year after the announcement HW-2026 in the 1976 Heathkit Christmas Catalog.



**Item 3:** The Heathkit Electronic Center Envelope

73, from AF6C





SCHLUMBERGER PRODUCTS CORPORATION  
P.O. BOX 167, ST. JOSEPH, MICHIGAN 49085  
PHONE: (616) 982-3614

Dear Customer:

We have encountered field conditions with the HW-2026, where spurious transmitter radiation has exceeded an acceptable level. Modifications to correct this condition have been tested. At this time the Engineering Department at the Heath Company does not feel that modification of your unit is practical or would represent Heath's highest performance standards.

I am enclosing a letter from the President of Heath Company regarding the HW-2026. Since you bought your unit from our store, we'd like to have you return it to the store where you purchased it rather than send it to Heath Company. We are not sending you a shipping label or a return form since you will probably drop the unit off at the store. If you do wish to ship it to the store, however, please advise that store and they will send you a shipping label and a return form where necessary.

While I sincerely regret the inconvenience you may encounter in the recall of the HW-2026, I do feel that each Heath product you purchase should meet the highest standard of performance. You may be assured that we will make every effort now, and in the future, to merit your continued confidence.

Sincerely,

SCHLUMBERGER PRODUCTS CORPORATION

A handwritten signature in black ink, appearing to read "Joseph J. Schnebelen".

Joseph J. Schnebelen  
President

JJS/rs  
enc.



Item 1: Letter from Joseph Schnebelen, President of Schlumberger Products Corp.

HEATH COMPANY  
BENTON HARBOR, MICHIGAN

D. W. NURSE  
PRESIDENT

December 23, 1975

Dear OM:

It is "back to the breadboard" stage for us at Heath. With our pride a bit dented, faces slightly red, but with complete confidence, we are going to redesign the HW-2026. This time it will be a rig both of us can be proud of - that is the assurance I give all of you.

This is my way of saying that we are recalling all HW-2026's - each and every one. Included is a shipping label and a return form for your use. Please indicate on the form whether your kit was completely or only partially assembled.

Upon receipt of your unit we will mail you a full refund, including the full postage you paid. If you purchased on our Heath revolving charge plan, your account will be fully credited for the purchase, including any interest paid.

In addition, we will include a gift certificate for \$50.00 if your unit was fully assembled, and \$25.00 if it is returned unassembled or partially assembled. You may wish to apply this to the purchase of an HW-202 so you can get back on the air. However, it may be used for any kit of your choice. The only restriction is that I would like you to use it within the next 60 days.

Should you have any questions, please contact our Marketing Services Manager, Matt Cutter, by writing him direct or by telephone at (616) 982-3264.

In our long history, this is our first recall of a product. Not only that, but our timing could not have been worse. We suspect many of you have received the HW-2026 as a Christmas present, and for that reason we are especially sorry. Aside from this difficult problem, I would like to sincerely wish you and yours the best of everything in the new year.

73



David Nurse  
W8GCD

**Item 2:** Letter from Heathkit's President, David Nurse W8GCD.



Dear HW-2026 Customer,

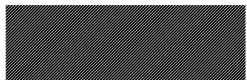
Enclosed is an article from the publishers of Ham Radio Magazine. We thought that you would be interested in reading it since it explains quite well what happened with the HW-2026 and some of the reasons for the recall.

Have a good new year. I hope we will see you at the store soon.

Yours,

Scott Brooks

P.S.



We are still waiting to hear from you on the recall. As you might guess, Heath Co. is anxious to recall all of these units. If you didn't get our first letter informing you of the recall then call us or visit us at your earliest convenience and we'll be glad to fill in the details

Thank you -  
Scott Brooks

**Item 4.** Letter from Scott Brooks of the Dallas TX area Heathkit Electronic Center noting the enclosed HR Report article on the recall. Includes a hand written note as the owner hadn't returned the HW-2026. A clearer copy of the text is shown on page 6



# hr REPORT

NEW!  
Weekly  
Edition

prepared by the editors of Ham Radio Magazine

December 26, 1975

HEATH HAS RECALLED its new HW-2026 synthesized 2-meter transceiver after users found its spurious outputs were causing problems in urban areas! The Heath radio did meet its -45 dB spur spec — which, incidentally, is also the international and only applicable spur specification for 2-meter Amateur transmitters — comfortably, but shortly after the sold-out first production run was shipped November 15 calls and letters started arriving from builders asking why they were being heard on simplex channels and repeater inputs on frequencies other than those dialed.

After An Intensive Engineering Investigation it was determined that there was no "quick-fix" possible for the 2026 problem. Then Heath made the very difficult (and expensive) decision to call back all the 2026s that had gone out and discontinue the model, an extremely commendable and responsible choice. In its notification letter scheduled to go in the mail this week Heath is not only reimbursing purchasers their purchase price and shipping costs both ways, but every buyer who completed his 2026 will receive a \$50 gift certificate from Heath as repayment for his time and effort! Those who return unfinished or unstarted kits will receive a \$25 Heathkit gift certificate.

As Painful — financially and otherwise — as the recall is to Heath it cannot help but enhance the already high regard that Amateurs have for Heathkit equipment. An improved synthesized replacement for the HW-2026 is already in the planning stages at Heath, with hopes that it will be ready by late 1976.

HR REPORT

Greenville, New Hampshire 03048

603-878-1441

**Item 5:** The Ham Radio Magazine's HR Report for December 26, 1975 discussing the recall. This article was included with Item 4 inside Item 3. (Only the HW-2026 article is shown.)

Dear HW-2026 Customer,

Enclosed is an article from the publishers of Ham Radio Magazine. We thought that you would be interested in reading to since it explains quite well what happened with the HW-2026 and some of the reasons for the recall.

Have a good new year. I hope we will see you at the store soon.

Yours,

Scott Brooks

*P.S. (Customer's name)*

*We are still waiting to hear from you on the recall. As you might guess, Heath Co. is anxious to recall all of these units. If you didn't get our first letter informing you of the the recall then call us or visit us at your earliest convenience and we'll be glad to fill in the details.*

*Thank you -*

*Scott Brooks*

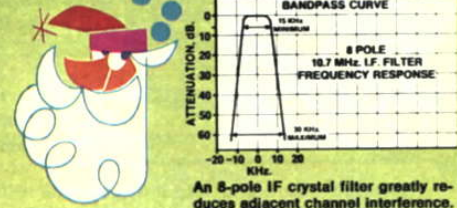


# NEW! Frequency Synthesized 2-Meter Transceiver

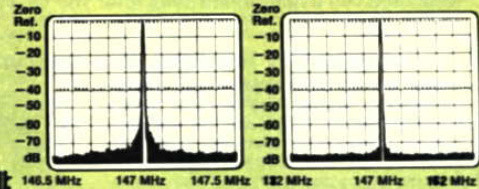


The new Heathkit HW-2036 sets a value standard for synthesized 2-meter transceivers!

**\$269<sup>95</sup>** with standard microphone



An 8-pole IF crystal filter greatly reduces adjacent channel interference.



Actual spectrum analyzer photos of the HW-2036 transmitter output operating at 147 MHz. Spurs within 20 MHz of carrier are down a full 70 dB!



Shown with optional Micoder installed

## New HW-2036 2-meter Transceiver with Frequency Synthesis and Built-in tone encoder

This is the new 2-meter transceiver you have been waiting for — combines state-of-the-art technology with operating ease, convenience and versatility in an easy to build kit that's priced at about HALF THE COST of other comparable synthesized transceivers! Compare the HW-2036's performance and specifications with any 2-meter transceiver at any price — and you'll be convinced!

The HW-2036 offers true digital frequency synthesis, the only way to go for real operating versatility. No extra crystals are needed, there are no channel limitations. Advanced digital technology uses a voltage-controlled oscillator (VCO) and a 10 MHz crystal time base. You control the frequency of the VCO with the front panel lever switches for fast, easy and precise frequency selection.

The front-panel lever switches select any frequency in any 2 MHz segment of the 143.5 to 148.5 MHz operating range. You select the last four digits, three with the lever switches which display the frequency directly, and the last with a 0/5 kHz miniature toggle switch. These lever switches are easier to use than conventional thumbwheels and the 5 kHz steps mean that ALL 2-meter frequencies in the band are available to you. And if you inadvertently dial up an out-of-band frequency, the transmitter will not key. Has LED status lights to warn that frequency synthesizer is not locked and indicate whether channel is in use.

The built-in continuous tone encoder, with three tones selectable on the front panel, lets you access most repeaters with the HW-2036. If you order the HW-2036 with Heathkit Micoder, you'll even be able to make telephone calls through repeaters equipped with auto-patch input. Has built-in simplex, + and - 600 kHz offsets, and an Aux. position that lets you add your own crystal for any other offset frequency you may want.

The HW-2036 puts out a minimum 10 watts. For even more output, you can use the HA-202 2-meter amplifier (see next page). And the HW-2036 operates into an infinite VSWR without failure! The transmitter output is extremely clean, with spurious output better than 70 dB below carrier (see spectrum analyzer photos above). True FM circuitry means you transmit and receive with outstanding audio quality, too.

Receiver sensitivity is an excellent 0.5  $\mu$ V for 12 dB SINAD. An 8-pole IF crystal filter provides an ideally shaped receiver bandpass for outstanding adjacent channel rejection, and the HW-2036's excellent selectivity makes it ideal for use in crowded signal areas.

Has a Schmitt-Trigger squelch with a threshold of 0.3  $\mu$ V or less, diode-protected dual-gate MOS FET's in the front end, IC IF and dual-conversion receiver. A big, built-in 2x6" speaker provides excellent audio quality and there's a jack for an external speaker.

The HW-2036 is extremely compact for easy mounting in car or boat, and its convenient gimbal-mount (supplied) lets you remove it easily for storage or security. You can also use it as a fixed station transceiver with the HWA-2036-3 AC power supply, next page. Kit building is easy too, with just five printed circuit boards and a wiring harness. A built-in signal source lets you align the HW-2036's receiver section for maximum sensitivity using just the front panel meter (no signal generator is required). Total alignment requires a VTVM. A frequency counter with a range to 150 MHz is also recommended, but not necessary. You can order the HW-2036 with a standard PTT mike, or, for even greater convenience, add \$30 and get our reg. \$49.95 Micoder mike/auto patch encoder. We think the HW-2036 is one of the best 2-meter transceivers you can buy anywhere, add it to your operating equipment today.

**Kit HW-2036-1**, HW-2036 Transceiver with reg. \$49.95 Heathkit Micoder microphone/auto patch encoder. Shpg. wt. 10 lbs. . . . **299.95**

**Kit HW-2036-2**, HW-2036 Transceiver with standard push-to-talk microphone. Shpg. wt. 10 lbs. . . . **269.95**

**HW-2036 SPECIFICATIONS:** Receiver: Sensitivity: 0.5  $\mu$ V for 12 dB SINAD (or 15 dB of Quieting). Squelch Threshold: 0.3  $\mu$ V or less. Audio Output: 1.5 watts at 10% T.H.D. typically 2 watts. (5 kHz deviation). Image Rejection: -45 dB or greater. Spurious Rejection: -50 dB or greater. IF Rejection: -80 dB or greater. Internally Generated Spurious: Below 1  $\mu$ V equivalent. Bandwidth: 6 dB at 15 kHz min. and 60 dB at 30 kHz max. Modulation Acceptance: 7.5 kHz, min. Transmitter: Power Output: 10 watts min. at 25°C and 13.8 VDC, into a 50  $\Omega$  load. Harmonic & Spurious Output: -70 dB within 20 MHz of carrier; -50 dB elsewhere, -40 dB harmonics. Modulation: FM, 0 to 7.5 kHz, adjustable. Duty Cycle: 100% with infinite VSWR. Tone Encoder: 3 tones, 70 to 200 Hz, approx.  $\pm$ 700 kHz deviation. Transmitter Offset: 0 (simplex), -600 kHz, +600 kHz with crystals supplied. Provision for one additional offset crystal. General: Frequency Coverage: Any 2 MHz segment from 143.5 to 148.5 MHz. (Both receiver and transmitter must be aligned for the same 2 MHz segment.) Frequency Increments: 5 kHz. Frequency Stability:  $\pm$ 0.015%. Operating Temperature Range: 15° to 125° F. (-10° to 50° C). Operating Voltage Range: 12.6 to 16 VDC (13.8 VDC nominal). Current Consumption: RX: 700 mA max. squelched. TX: 2.6 A max. at 13.8 volts. Dimensions: 2 1/4" high x 8 1/4" wide x 9 3/4" deep. Weight: 6.25 lbs.



Order your HW-2036 with the Heathkit Micoder combination microphone, auto patch encoder and make telephone calls through repeaters equipped with auto patch input. See page 76 for complete description.

Item #6: Heathkit's successful Replacement for the HW-2026, the new HW-2036