

Louis B. Savoie  
29 Hillsdale Rd  
Holbrook, Mass.  
02343  
-617-767-1638

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ELLIS F. MILLER W111Q

WOLFEBORO, N. H. 03894

TO

Ellis Miller, WIIIQ

FROM

Lou Savoie

SUBJECT

IC 230 Repairs

DATE

9/22/78

MESSAGE:

- Mr. Miller: Thank you for the authorization by phone to fix the IC 230. The unit has been fixed and is in good working order. The power output is 12 watts and all the feathres work as originally designed. Most of the work required replacement of solid state components and IC's burned out by the mess in the voltage and current regulatprs. Have had the unit running on our 07/67 machine and the reports have been good.

The invoice is attached and amounts to \$60.90. Please add \$2 for shipping. Upon receipt of payment the unit will be shipped the same day. Please understand that we mean no offense in requirang remittance before shipment, but we have been burned severly twice by shipping and then billing. Unfortunately, all Hams aren't as we would like them to be. I hope you understand our problem and please be assured we appreciate your business.

*Lou Savoie*

ORIGINATOR'S NAME AND ADDRESS BELOW THIS LINE

REPLY TO THIS LINE

REPLY

DATE

SIGNED

SEND PARTS 1 AND 3 INTACT-PART 1 WILL BE RETURNED WITH REPLY

RM-87

RETURN TO ORIGINATOR

# Speed Letter.

To Ellis Miller W111Q

From L. Savoie

29 Hillsdale Rd.

Wolfeboro, N.H. 03894

Holbrook, Ma. 02343

Subject IC 230 Repairs

617-767-1638

-No 9 & 10 FOLD

## MESSAGE

Date 9/15 1978

Mr. Miller: I received the IC230 today and have had an opportunity to evaluate it for repair. You were correct in your assumption that someone has had their hands into the sensitive innards of this unit. They have! There were two shorts in the cabling along the sides of the unit - probably happened with repeated taking off the covers and jamming them back on without respect to the pinch fit nature of the case. The shorts caused some burnouts of components in the regulated power supply unit: the +9v reg is burned out, and so is the +9v reg for transmit functions. The pll unit is inoperative and has two open transistors (probably cause with the +9v rec voltage shorted through that section of the unit; this will require some rebuilding of the VCO, Mixer and CO module. Mainly replacing burned or open components or transistors. The final transistors are ok; most of the problems are in the voltage and current regulators and the PLL circuitry. Estimate to repair is between \$50 and \$65 dollars. What is your pleasure? Signed *Lou Savoie*

-No 9 FOLD

-No 10 FOLD

(Please respond via either this speed letter or by phone after 7:00 PM, Tnx)

## REPLY

Date \_\_\_\_\_ 19\_\_\_\_

*Repair Authorized 9/20/78*

*Phone calls to Lou Savoie 617-767-1638*

*Bills sent to: K.T. Leach 9/28/78 - for payment.*

-No 9 & 10 FOLD

Signed \_\_\_\_\_

# Speed Letter.

From Ellis Miller WIIIQ

FILE IN NAME AND ADDRESS HERE  
To L. Savoie

Wolfeboro, N.H. 03894

FOR RETURN TO MAILING SERVICE  
29 Hillsdale Rd.

Holbrook, Ma. 02343

Subject IC 230 Repairs

617-767-1638

-No. 9 & 10 FOLD

MESSAGE

Date 9/15 1978

Mr. Miller: I received the IC230 today and have had an opportunity to evaluate it for repair. You were correct in your assumption that someone has had their hands into the sensitive innards of this unit. They have! There were two shorts in the cabling along the sides of the unit - probably happened with repeated taking off the covers and jamming them back on without respect to the pinch fit nature of the case. The shorts caused some burnouts of components in the regulated power supply unit: the +9v reg is burned out, and so is the +9v reg for transmit functions. The pll unit is inoperative and has two open transistors (probably cause with the +9v rec voltage shorted through that section of the unit; this will require some rebuilding of the VCO, Mixer and CO module. Mainly replacing burned or open components or transistors. The final transistors are ok; most of the problems are in the voltage and current regulators and the PLL circuitry. Estimate to repair is between \$50 and \$65 dollars. What is your pleasure?

Signed Lou Savoie

(Please respond via either this speed letter or by phone after 7:00 PM, Tnx)

REPLY

Date \_\_\_\_\_ 19\_\_

*Repair authorized 9/20/78  
E/M*

*Phone calls to: Alex Richie  
Ken Leach*

*Pete Colbath. Confirmed.*

*E/M*

-No. 9 & 10 FOLD

Signed