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Pace Service Bulletin #0010

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((P)) PATHCOM INC.
PACE TWO-WAY RADIO PRODUCTS

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SERVICE BULLETIN # 0010

CB 123A SENSITIVITY

During the past few months, our manufacturing facility in Japan has been having to substitute a few transistors in the receiver section of the 123A. This change in production has increased the receivers sensitivity in some production runs. With an increase in sensitivity, unfortunately, noise has been increased in some units.

For the user wishing quieter operation, we have a very simple field modification.

This modification can be performed two ways:

MODIFICATION #1

Remove capacitor C38 (30 pf) from the base of Q2 and replace it with a 1 to 3 pf capacitor. In addition, change R35 (3300 ohms) to a 1500 ohm 1/4 watt resistor.

OR

MODIFICATION #2

Condition #1 If R18 is 470 ohms, add a 6800 ohm 1/4 watt resistor in parallel with R14, 22,000 ohm located across T4. Also add a 68,000 ohm 1/4 watt resistor in parallel with R43.

Condition #2 If R18 is 1000 ohms, add a 6800 ohm 1/4 watt resistor in parallel with R14, 22,000 ohm resistor across T4 only.

This change will decrease the receivers sensitivity, but should keep it around .5 microvolt for 10 db $\frac{S + N}{N}$.

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