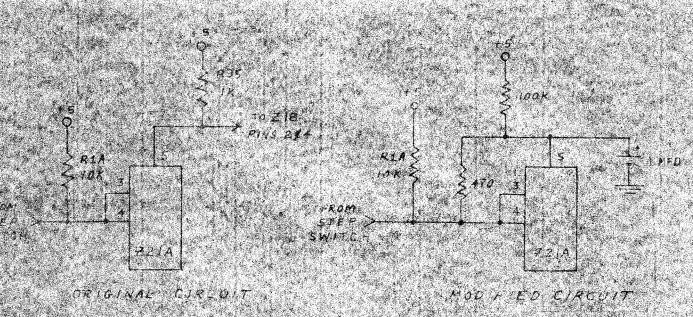
SEVERAL OF OUR CUSTOMERS HAVE EXPERIENCED DIFFICULTY WHEN USING THE STEP SWITCH ON THE SCELBI-SH. THE SYMPTOMS HAVE BEEN EXPRESSED AS "ER-RATIC" OPERATION IN THAT SOMETIMES THE COMPUTER WOULD ADVANCE TWO CYCLES AND AT OTHER TIMES WOULD FAIL TO STEP WHEN THE SWITCH WAS OPERATED.

EARLY INDICATIONS WERE THAT FOME STEP SWITCHES THEMSELVES WERE DE-FECTIVE, BUT FURTHER EXAMINATION OF THE PROBLEM HAS LED TO MINOR CINGUIT MODIFICATIONS TO ELIMINATE SUCH VERHATION OF THE STEP SWITCH; WHO HAVE EXPTRICATIONS ANY DIRECTLY WITH CHERATION OF THE STEP SWITCH; WHO HAVE TYPE FILEO CPU CARDS - REVISION A" - (WITH I.C. ZZIA INSTALLED) SHOULD CONSIDER PERFORMING THE FOLLOWING MODIFICATIONS TO THEIR UNIT TO CORRECT SUCH PROBLEMS.

FOR CINCUIT MODIFICATION TO THE CPU CARD STEP CIRCUITRY AT I.C. 2214. CHANGE THE CIRCUITRY AD \$214 TO APPEAR AS SHOWN IN THE CREMATE HELDS.

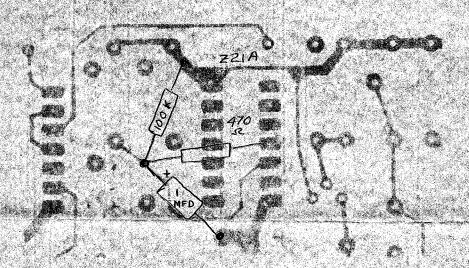


- THE CHANCE CONSIST OF ADDING INC MESISTORS CA 470 OHM AND A TROUBLE OF MEDICATOR AT ZOTA AS ILLUSTRATED IN THE CHEMATIC. THE ADDITION OF THE COMPONENTS CAN BEST OF IMPLEMENTED BY MOUNTING THE PARTS ON THE CIFCUIT SIDE OF THE CRU CARB AS SHOWN IN THE DIAGRAM ON THE NEXT PAGE. THE DIAGRAM SHOWS THE FOIL PRITTERS ON THE CRECUIT SIDE OF THE CARD IN THE VECINITY OF I.C. LIA (TOWARDS THE UPPER RIGHT HAND CORNER MEAN THE TRIMEDIE WERE MIEVED FROM THE BACK OF THE CARD VITE ONE CONNERS OF THE CARD WEAREST THE CREEK OF THE SUFFER CONNERS OF THE CARD WEAREST THE CREEK OF THE FOIL OF THE TOTAL O
- 2.) Examérate virtis de the desemblédella: Lot xame republicando Examplemento de la dependo la tere.
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C. RUN A WIRE FROM FIN AY OF XA02 TO PIN BE (T3N SIGNAL) OF & XA02.

THE FIRST MODIFICATION ELIMINATES THE POSSIBILITY OF CONTACT BOUNCE UPON RELEASE OF THE STEP SWITCH CAUSING MULTIPLE STEP OPERATION.

THE SECOND MODIFICATION ELIMINATES A POSSIBLE "RACE" CONDITION IN THE CONTROL LOGIC FROM DECURING THAT CAN SOMETIMES RESULT IN THE STEP CIRCUIT FAILING TO "STEP" THE COMPUTER WHEN IN THE INTERRUPT MODE. WILL BE NOTED THAT THE SECOND MODIFICATION VILL RESULT IN MINOR CHANGES OCCURING IN THE SEQUENCE IN WHICH THE INTERBUPT AND STATUS LIGHTS APPEAR WHEN AN INTERRUPT IS RECEIVED AFTER THE COMPUTER HAS BEEN IN THE RUN MODE - DEPENDING ON THE OPERATION BEING PERFORMED AT THE TIME THE INT-ERUPT SWITCH IS ACTIVATED. HOWEVER, THE BASIC OPERATION REMAINS THE WHEN THE OPERATOR DEPRESSES THE INTERRUPT SWITCH, THE STEP BUTTON SHOULD HE ADVANCED (IF NECESSARY) UNTIL O N L Y THE "I" LAMP IS LIT. IF, FOR INSTANCE, THE INTERRUPT AND A STATUS LAMP COMES ON WHEN THE "INT" SWITCH IS OPERATED, THEN THE OPERATOR SHOULD OPERATE THE STEP BUT-THE LINILL THE STATUS LAMBICS. GO DEF L'ULTH THE "I" LAMP REMAINING ON) TO SIGNIFY THE START OF THE INTERBURT CYCLE. THE OPERATOR THEN PROCEEDS AS IN THE PAST TO USE THE STEP SWITCH TO BEING THE STATUS LAMPS TO THE DE-SIRED CONDITION(S) (IF REQUIRED) FOR INSERTING "INTERRUPT MODE" INSTRUC-TIONS TO THE COMPUTER. I (THE CASE OF BOTH THE "I" LAMP AND THE STATUS IAMPIST BEING LIT WHEN THE INTERRUPT MODE IS INITIALLY ENTERED SIGNIFIES THAT THE COMPUTER HAS NOT FINISHED THE LAST MULTI-BYTE INSTRUCTION BEING EXECUTED WHEN THE "INTERPURT" SIGNAL WAS RECEIVED - THIS MUST BE DONE IN THE STEP MORE ELECAPT THE NEW COMMAND IS GIVEN VIA THE CHASSIS SWITCH-ES).



PARTS PLACEMENT ON CPU FOR PAITHER TO STATE DECEMBER MODIFICATION