

DATE 20/5/1960

SH. 1 OF 4

COMPILED BY
N. K.

TMC

SPECIFICATION NO. S - 10049

TITLE:

JOB

APPROVED

N. K.

See

MODIFICATION INSTRUCTIONS

FOR

MODEL SBE-2 (CAN-1)

T. M. C. (CANADA) LIMITED

OTTAWA

ONTARIO

N. K. /hh

DATE 20/5/1960

SH. 2 OF 4

TMC SPECIFICATION NO. S - 10049

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TITLE: MOD. INSTRUCTIONS FOR SBE-2 (CAN-1)

JOB

APPROVED *[Signature]*

- 1.) Drill chassis according to drawing No. MS-10456.
 - 2.) Mount hardware except filter and relay according to drawing No. A-10275.
 - 3.) Remove K101 and check whether the contacts to pin 3 and 4 are connected in accordance with schematic diagram. If not, exchange the external leads of pin 3 and 4 at socket of K101.
 - * 4.) At J109 remove the heater wire of crystal oven from pin E and connect to pin F.
 - 5.) Exchange 70°C thermostat S110 of crystal oven against 80°C thermostat.
 - 6.) Connect # 22 wire 12 inches long to pin 5, K101 (solder) and lead wire along harness to relay K102 (to be mounted later).
 - 7.) Disconnect the two wires from pin 1 of E101 and connect to stand-off insulator next to pin 1 of E101.
 - 8.) Connect and solder # 22 wire from lower center contact of S111 to pin 1 of E101.
 - 9.) Connect and solder # 22 wire from left lower contact of S111 to stand-off insulator next to pin 1 of E101.
 - 10.) Connect and solder # 22 wire 4 inches long to right lower contact of S111.
 - 11.) Connect and solder # 22 wire 5 inches long to center upper contact of S111.
 - 12.) Connect and solder # 22 wire 5 1/2 inches long to left upper contact of S111.
 - 13.) Connect and solder # 22 wire from pin 3, T106 to stand-off insulator next to S111.
- * Delete step 4.

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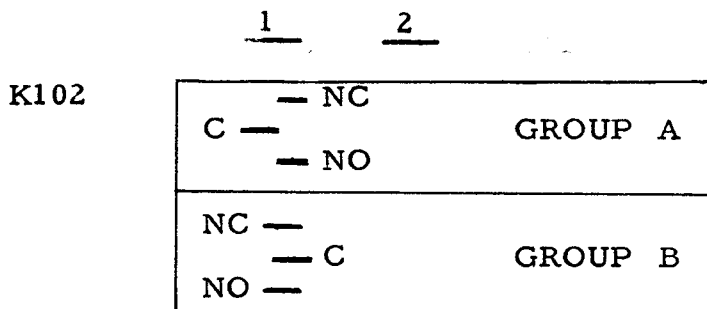
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APPROVED *M. K.*

- 14.) Connect and solder # 22 wire from right lower contact of S112 to stand-off insulator next to relay K102.
- 15.) Remove buss wire from pin 9 of E101 to ground.
- 16.) Connect # 22 wire from pin 9 of E101 to lower center contact of S112 (solder).
- 17.) Connect and solder capacitor 0.01 ufd, $\pm 10\%$ from pin 9 of E101 to ground.
- 18.) Connect # 22 wire 3 1/2 inches long to left lower contact of S112.
- 19.) Connect and solder # 22 wire from left lower contact of S112 to ground.
- 20.) Connect and solder # 22 screened wire 4 inches long insulated with clear sleeving to upper center contact of S112.
- 21.) Connect and solder # 22 screened wire 4 1/2 inches long insulated with clear sleeving to upper left contact of S112.
- 22.) Disconnect screened insulated wire from stand-off insulator next to T106 (6.8K ohm to pin 8 of V108) and lead to location of relay K102.
- 23.) Connect and solder # 22 screened wire 5 1/2 inches long insulated with black sleeving to stand-off insulator next to T106 and lead to location of relay K102.
- 24.) Connect and solder # 22 wire to pin 4 of E101.
- 25.) Mount relay K102, RL-10017, using 3/4 inches spacer. When mounting K102 place # 6 lockwasher between chassis and lower spacer and # 6 solder lug between chassis and upper spacer.



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- 26.) Connect and solder resistor 8.2K ohm \pm 10%, 1/2 watt from NC contact of group A, K102 to solder lug.
- 27.) Connect and solder wires of steps 20 and 22 to C contact of group A, K102.
- 28.) Connect and solder wires of steps 21 and 23 to NO contact of group A, K102.
- 29.) Connect and solder wire of step 18 to C contact of group B, K102.
- 30.) Connect and solder wire of step 24 to NO contact of group B, K102.
- 31.) Connect and solder wire of step 6 to contact 2 of K102.
- 32.) Connect and solder wire of step 10 to contact 1 of K102.
- 33.) Connect and solder resistor 33K \pm 10%, 1 watt between the two stand-off insulators next to S111 and K102.
- 34.) Disconnect capacitor C126 (from pin 2 V110 to stand-off insulator next to V111) at stand-off insulator.
- 35.) Connect and solder capacitor .01 \pm 10%, ceramic to stand-off insulator next to V111.
- 36.) Mount filter Z108, A-1591.
- 37.) Connect wire of step 12 to pin 1 Z108.
- 38.) Connect wire of step 11 to pin 2 Z108.
- 39.) Connect and solder capacitor from pin 2 V110 to pin 1 Z108.
- 40.) Connect and solder capacitor from stand-off insulator next to V111 to pin 2, Z108.
- 41.) Remove K101. Connect and solder # 22 buss wire insulated from NC contact (which belongs to contact group connected to pin 3 and pin 4 of K101) to pin 5 of K101.
42. Disconnect wire from pin 2 of V109 and connect to stand-off insulator next to V109.
43. Connect diode 1N478 between stand-off insulator (solder) and pin 2 of V109.
44. Connect and solder capacitor .01 ufd. \pm 10% from pin 2 of V109 to ground.