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| DATE 6-22-65 | | TMC SPECIFICATION NO. S-984 | A |
| SHEET COVER OF 4 | | | |
| M.G. | | TITLE: KIT - 155 | |
| COMPILED | CHECKED | | |
| 7/2/65 | <i>[Signature]</i> | | |
| APPROVED | | | |

INSTALLATION PROCEDURE
FOR KIT 155
(VOICE CONTROL UNIT)

| | | | |
|----------------------------|---------|----------------------------------|----------|
| DATE <u>6-22-65</u> | | TMC SPECIFICATION NO. 984 | A |
| SHEET <u>1</u> OF <u>4</u> | | | |
| M. G. COMPILED | CHECKED | TITLE: <u>KIT - 155</u> | |
| APPROVED | | | |

I. EQUIPMENT AFFECTED:

SBG-1A or SBG-1B Sideband Generator
(CBE-1 or CBE-2 and CHG-2A or CHG-2B)

II. PURPOSE:

To provide voice operated relay (VOX) operation.

III. MATERIAL SUPPLIED IN KIT:

| ITEM | QTY. | <u>PART NUMBER</u> | <u>DESCRIPTION</u> |
|------|------|--------------------|-----------------------------|
| 1 | 1 | | Drill Bit 3/8 |
| 2 | 1 | | Drill Bit 9/64 |
| 3 | 1 | | Punch, Chassis 11/16, round |
| 4 | 1 | TP-131 - J2708 | Stamp, |
| 5 | 1 | CA-1028 | Wiring, Harness, Branched |
| 6 | 3 | SCBP0440BN5 | Screw, Machine |
| 7 | 3 | LWE04MRN | Lockwasher, External |
| 8 | 3 | NTH0440BN6 | Nut, Hex, Head |
| 9 | 1 | CU-161 | Clamp, Hold Down |
| *10 | 1 | A-3139 | Voice Control Assembly |
| *11 | 1 | CA-749 | Cable, Harness Branched |

NOTE: Use only items markd * if KIT-155 is used with CHG-2B.

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III. CONT.

| <u>ITEMS</u> | <u>QTY</u> | <u>PART NUMBER</u> | <u>DESCRIPTION</u> |
|--------------|------------|--------------------|------------------------------------|
| *12 | 2 | SCBP0832BN8 | Screw, Machine |
| *13 | 3 | CU-102-2 | Clamp "G" Type |
| *14 | 4 | FW08HRN | Washer, Flat |
| *15 | 5 | LWE08MRN | Washer, Lock, External |
| *16 | 6 | NTH0832BN10 | Nut, Hex |
| *17 | 1 | NP360-6 | Nameplate modification- CHG2B |
| *18 | 1 | NP362-47 | Nameplate modification- KIT-155 |
| *19 | 1 | ID286 | Installation Drawing |
| *20 | 1 | CK606 | Schematic Diagram |
| *21 | 1 | MS3018 | Cover, Chassis |
| *22 | 1 | MS3019 | Brkt, Mtg |

IV. TOOLS REQUIRED:

To be provided by the installing activity.

1. Screwdrivers, flat blade, assorted sizes.
2. Screwdrivers, Phillips, Assorted Sizes
3. Soldering Iron (100 watt type) 2 ft. solder (Rosin Core)
4. Electric Drill, 3/8" chuck capacity.
5. 6" Pliers, Longnose
6. 6" Pliers, Diagonal

V. PROCEDURE: MODIFICATION OF CHG-2A

This modification changes the model number to CHG-2B.

- A) Remove dust covers from the CHG.

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(continued)

- B) Mark the Main Chassis as shown in Figure (1).
Using the 9/64, 3/8 Drill Bits and the 11/16 punch,
modify the chassis as shown on Figure (1). Use
extreme care during this portion as the internal wiring
is in close proximity to the holes. Using the stamp
provided, stamp J2708 on both sides of the chassis.

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| M. G. | | TITLE: <u>KIT - 155</u> | |
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V. CONT.

(C) Using three 5/16 4-40 screws, nuts and lockwashers, mount the JJ-119-2 of CA-1028 internally and the CU-161 externally. Route the cable along the main harness and lace. Connect the orange wire to the orange wire of C-2773. Route and lace the W/Orange wire under the tube and along the main harness to the B+ switch. Connect the W/Orange wire to the junction of the switch and the coil, L2101.

(D) Replace the dust covers.

(E) Apply modification nameplate NP360-6 to front panel.

This completes the modification of the CHG-2A.

The following applies to both CHG-2A and CHB-2B:

- VI. Install A-3139 Sub-Assembly and CA-749 as shown on print ID-286, using hardware called out. Connect PL-105-1 of CA-749 into newly installed JJ-119-2, (J2708). under mounting screw of JJ-119-2. Be sure CU-161 snaps over PL-105-1 to hold plug in place.
- VII. a. For operation from Channel 1 of CBE-1 or 2. Connect lead 3 (ORN) of CA749 to terminal 2 of E201, lead 4 (YEL) to terminal 3, lead 5 (GRN) to terminal 4 and shield to terminal 9.
- b. For operation from Channel 2 of CBE-1 or 2, connect lead 3 to terminal 6 of E201, lead 4 to terminal 7, lead 5 to terminal 8 and shield to terminal 9.
- VIII. Affix modification nameplate, NP362-47 to the front panel of CHG-2B, (This will not be necessary in the case of CHG-2A which is being converted to CHG-2B, since NP360-6 will have served the purpose).

IX. Test

Energize the SBG-1 Sideband Generator. Inject -20 db level audio signal into channel of CBE-1 or 2 to which cable CA749 is connected. Tune up for normal output with B+ switch ON. Throw B+ switch to OFF. Output meter of CHG should continue to indicate same output. Remove audio signal. CHG-2 should turn off as indicated by output meter.

DATE Jun 22, 1965

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MODIFICATION OF CHG-2A to CHG-2B

FIGURE # 1



