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INSTRUCTIONS FOR CARRIER OPERATED RELAY ASSEMBLY 19C303533G3 & G4 (OPTIONS 7610 & 9912)

Carrier Operated Relay Assembly 19C303533G3 (Option 7610) and 19C303533G4 (Option 9912) provide 4 form C contacts which may be used for controlling external circuits whenever a carrier is received. The 19C303533G3 relay assembly can be mounted on MASTR Station Power Supplies (Types EP-38-A & EP-39-A), Monitor Receivers (Types ER-51-A, ER-52-A & ER-53-A) or a MASTR*Desk Top Station Control Unit (Type EC-69-A, B) as shown on the Installation Diagrams. The 19C303533G4 assembly mounts in the MASTR*Executive II Station.

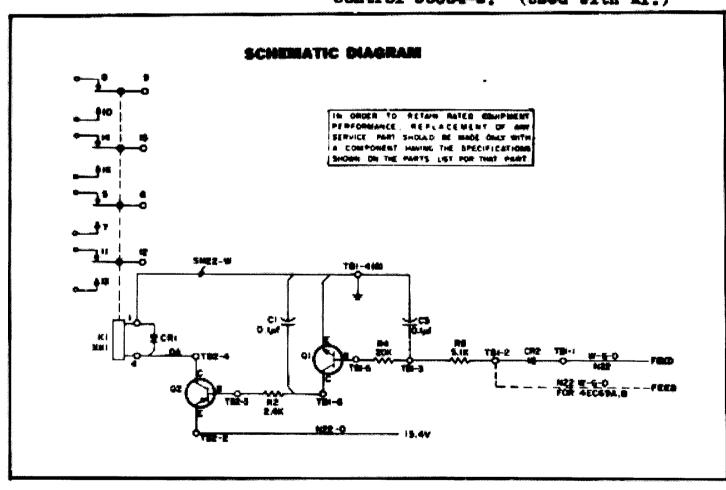
When the radio receiver is unsquelched, a positive voltage (approximately 2 Volts) from the base of the receiver audio amplifier transistor turns on Ql in the carrier operated relay circuit. Current flow in the collector circuit of Ql forward biases Q2 causing it to conduct and energizes relay Kl. Voltage "spikes" produced across Kl (when Kl de-energizes) are absorbed by diode CRl to prevent damage to transistors Ql and Q2.

PARTS LIST

Symbol	GE Part Number	Description
Cl	19B209243P7	Polyester: 0.1 pF ±20%, 50 VDCW.
C3	19B209243P7	Polyester: 0.1 μF ±20%, 50 VDCW.
		DIODES
CR1	5494922P1	Silicon; sim to Type 1N456.
CR2	19A115250P1	Silicon.
	•	
K1	5491595P14	Armature: 1.5 W operating, 520 ohms ±15% coil res, 4 form C contacts rated at 0.5 amp at 12 VDC; sim to Allied Control T154-X-131.
		TRANSISTORS
Q1	19A115123P1	Silicon: NPN; sim to Type 2N2712.
Q2	19A115706P1	Silicon: PNP.
R2	3R77-P242J	Composition: 2400 ohms ±5%, 1/2 W.

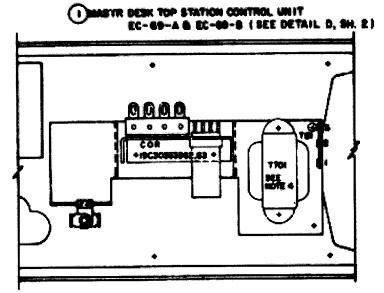
PARTS LIST

Symbol.	@ Part Number	Description	
DE.	3R77- PG 03J	Composition: 20,000 ohms ±5%, 1/2 W.	
R5	3R77-P612J	Composition: 5100 ohms ±5%, 1/2 W.	
		TERMINAL BOARDS	
TB)	7487424P26	Miniature, phen: 6 terminals.	
TB2	7775500P6	Phen: 4 terminals,	
		SOCKETS	
XK1	5491595P5	Relay: 16 contacts: sim to Allied Control 30054-2.	
	5491595P9	Spring retainer: sim to Allied Control 30054-2. (Used with Kl.)	



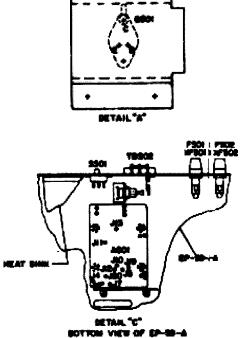
(19C317386, Rev. 4)

MOBILE RADIO DEPARTMENT GENERAL ELECTRIC COMPANY LYNCHBURG, VIRGINIA 24502



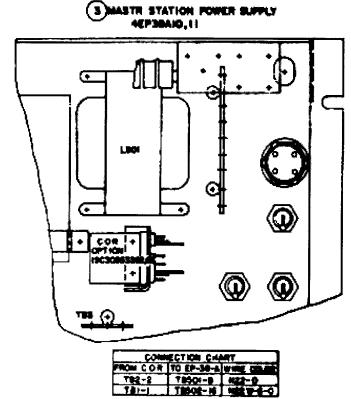
	ON CHART	PC# EC-49-A
ом соя	TO EP-SHA	wint cause
T## - 2	78501-3 (5504-N	
CE HOTE		
T22 - I	T01-3	

FROM COR	TO EP-SO-A	WHAT COLD!
TR2-2	75501-3	487 -6
T01-2	EN-SAM-MECHA	mtt w-4-4
SHE NOTE &	SEE NOTE S	

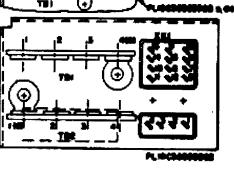


BOLDER WIRE FROM

€ 112

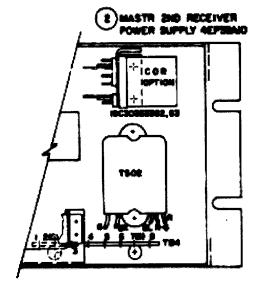


COR ASSEMBLY 181



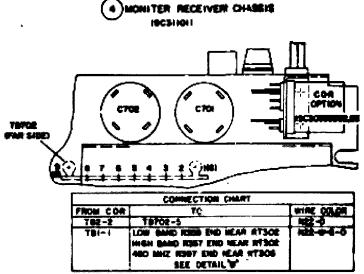
CEMERAL HOTES

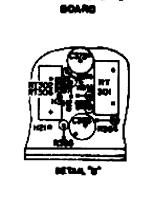
- FOR CONNECTIONS TO TERMINAL BOARDS CUT LEADE TO APPROPRIATE LEMETH AND ADD TERMINAL FLABRISHED
- 2 HOLRY C.O.R. ASSEMBLY BITH HARDMAN PARKINGS.
- MIRES FROM C.O.A. SHOULD BE PLACED IN A NEXT MININGS TACK LACED TO EXISTING HARRESS IF POSSIBLE.
- 4 TYDE IS NOT PRESENT IN JECTION
- MEZ N.G.O WINE TO BE BRAFED & SOLDERED TO PROS PSOS CONNECTS TO ASOF-LS WITH A W-O-SL WINE
- FOR APPLICATION OF C 0 R TO MEDIAN, B, MINE THE 182 R-G-0 WINE, MOMENLEY CONNECTED TO TRIVE, TO TRIVE





IF THE IS NOT LOCATED AS SHOULD UNSOLDER ALL WIRES AND COMPONENTS FROM THE AND ROTATE THE MOP RESOLDER WIRES AND COMPONENTS IN APPROPRIATE LOCATIONS.



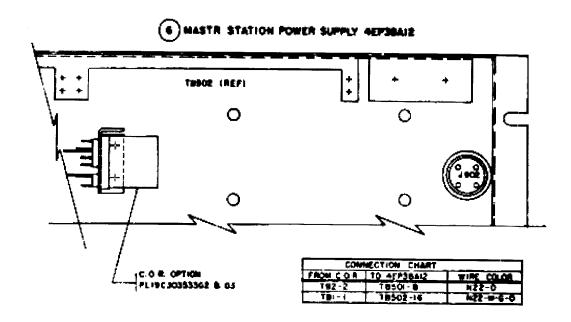


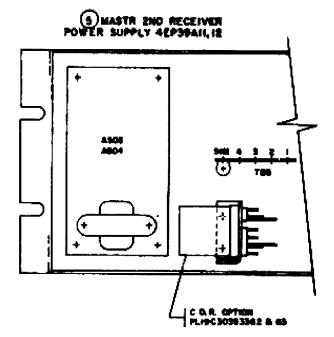
MONITER RECEIVER

INSTALLATION DIAGRAM

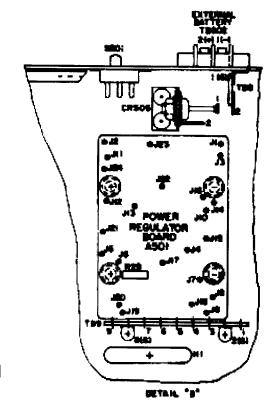
CARRIER OPERATED RELAY ASSEMBLY 19C303533G3 (OPTION 7610)

(19D402880, Sh. 1, Rev. 11) 3





CONNECTION CHART				
FROM LOR	TO SEPONICE WITH COLOR			
185-5	78501-10 HE2-0			
TID (-)	78501-19 N22-8-8-8			

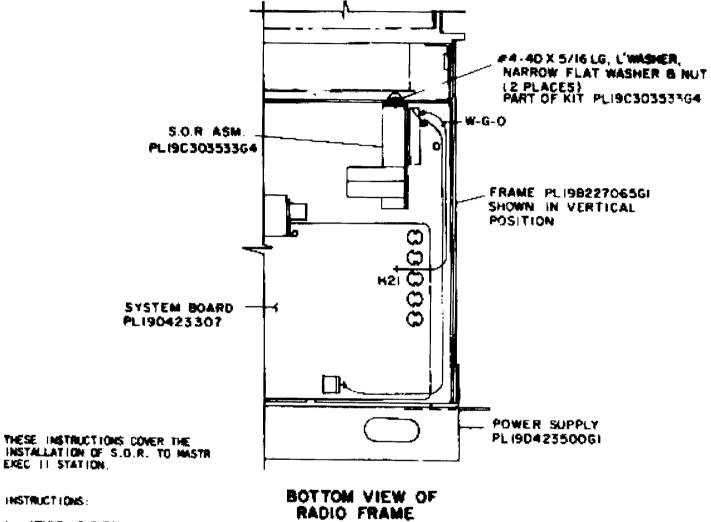


CONNECTION SHART				
FROM COM	TO SEPTEA	WINE COLUM		
T62-2	T8501-3	Tiett-0		
T01-2	4501-JI:	N21-1-1-9		
T#2-1	EC-44-9 79-			

INSTALLATION DIAGRAM

CARRIER OPERATED RELAY ASSEMBLY 19C303533G3 (OPTION 7610)

4 (190402880, Sh. 2, Mev. 6)



- 1. NOUNT AS SHOWN.
- 2. SOLDER GRANGE RIRE TO HOLE 20, AND H-G-O WIRE TO HOLE 21, ON SYSTEM BOARD,

C168827065, Bav. 91

INSTALLATION DIAGRAM

CARRIER OPERATED RELAY ASSEMBLY 19C303533G4 (OPTION 9912)