

instruction manual revision

GENERAL:

This revision outlines changes that have occurred since the printing of your instruction manual. Use this information to correct your manual.

INSTRUCTION MANUALS AFFECTED:

68P81025E55-B	Micor Community Repeater 406-420 MHz and 450-512 MHz
68P81025E60-F	Micor Base & Repeater Stations Control and Applications
68P81031E95-A	Micor Community Repeater 851-866 MHz Tx, 806-821 MHz Rx
68P81034E25-C	Securenet Digital Voice Protection System-Micor Base and Repeater Stations, 406–420 MHz and 450–512 MHz
68P81036E40-C	Securenet Digital Voice Protection System-Micor Base and Repeater Stations, 132–174 MHz
68P81038E85-C	Micor Trunked Repeater 851–866 MHz Transmit, 806–821 MHz Receive
68P81077E20-O	Micor Securenet Capable Trunked Repeater 851–866 MHz Transmit, 806–821 MHz Receive

REVISION DETAILS:

The TRN6689A Squelch Gate Module described in instruction section 68P81015E33 or PEPS-27233 in the instruction manuals listed above, is replaced by the TRN6689B Squelch Gate Module described in attached instruction section 68P81030E08-B. The TRN6689B module is a direct replacement for the TRN6689A module.

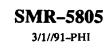
The TRN6689B Squelch Gate Module also is a direct replacement for the TLN4662A Squelch Gate Module also described in the affected instruction manuals listed above.

ATTACHMENT:

technical writing services

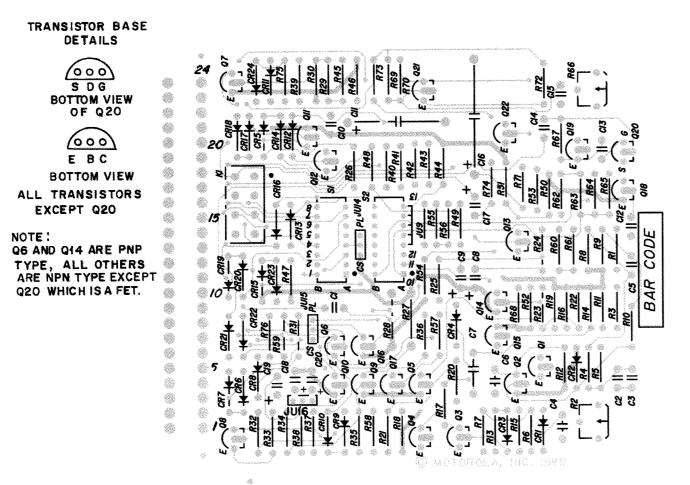
1301 E. Algonquin Road, Schaumburg, IL 60196

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SQUELCH GATE MODULE MODEL TRN6689B

CIRCUIT BOARD DETAIL and PARTS LIST



SHOWN FROM COMPONENT SIDE

COMPONENT SIDE AEPS-48327-0 OVERLAY AEPS-48329-0

Motorola No. 68P81030E08-B (Sheet 1 of 2) 2/22/91

TRN6689B Squelch Gate Module

PL-11768-0

TRN6689B Squelch Gate Module (cont.)

REF. SYMBOL	PART NO.	DESCRIPTION	REF. SYMBOL	PART NO.	DESCRIPTION
		capacitor, fixed: uF ±5%; 63V			resistor, fixed: ±5%; 1/4W (cont.) unless otherwise stated
~~	0011051415	unless otherwise stated	P 21	0611009C71	8200
C1	0811051A15	0.22	R31	0611009C53	1500
C2,3	0811017A08	.01; 50V	R32 R33	0611009061	3300
C4	2100859943	250pF; 500V	R34	0611009073	10K
C5	0811051A09	.022	R35	0611009C83	27K
C6	2100850510	470pF ±10%; 300V	R36	0611009C73	10K
27	2100850994	3000pF; 500V 4.7 ±10%; 25V	R30	0611009C71	8200
C8,9	2311054H04	$1000 \text{pF} \pm 10\%$; 100V	R38	0611009C75	12K
C10	2111015D13 2300865594	68 ±10%; 15V	R39	0611009C65	4700
C11	2111015B17	2200pF ±10%; 100V	R40	0611009C95	82K
C12	0811017A06	.0047; 50V	R41	0611009C87	39K
C13	0811051A15	0.22	R42	0611009C79	18K
C14,15	2382783B04	100 ±20%; 25V	R43	0611009C71	8200
C16	2311054H04	4.7 ±10%; 25V	R44	0611009C73	10K
C17	2311054H08	$10 \pm 10\%$; 25V	R45	0611009C37	330
C18	2311019A40	47 ±20%; 25V	R46	0611009C89	47K
C19	2182428B62	.01 +80-20%; 200V	R47,48	0611009C73	10K
C20	2102420002	diode: (see note)	R49	0611009C89	47K
CP1 + hm 94	4883654H01	silicon	R50	0611009C49	1000
CR1 thru 24	4003034001	jumper:	R51	0611009C63	3900
1110	0611009D23	resistor, 0 ohm	R52,53	0611009C81	22K
JU9	2880001R03	connector, plug: 3-contact	R54	0611009C89	47K
JU14,15,16	200001100	connector; prug. o concure	R55	0611009C53	1500
		transistor; (see note)	R56	0611009C73	10K
01	4800869594	NPN	R57	0611009C53	1500
21 22 thru 5	4800869642	NPN	R58	0611009C73	10K
	4800869643	PNP	R59	0611009C67	5600
	4800869642	NPN	R60	0611009C63	3900
Q7	4800869567	NPN	R61	0611009C53	1500
Q8 Q9 thru 13	4800869642	NPN	R62	0611009C73	10K
	4800869643	PNP	R63	0611009C65	4700
Q14	4800869642	NPN	R64	0611009C91	56K
Q15	4800869568	NPN	R65	0611009D22	lmeg
Q16,17 Q18,19	4800869642	NPN	R66	1883083G02	variable: 500K ±30%
Q20	4800869660	JFET type	R67	0611009D22	lmeg
Q21,22	4800869642	NPN	R68	0611009C25	100
201,40		resistor, fixed: ±5%; 1/4W	R69	0611009D06	220K
		unless otherwise stated	R70	0611009D18	680K
R1	0611009C61	3300	R71	0611009C83	27K
R2	1883083G03	variable: 25K ±30%	R72	0611009C47	820
R3	0611009C83	27K	R73	0611009C49	1000
R4	0611009D02	150K	R74	0611009C45	680
R5	0611009C11	27	R75,76	0611009C89	47K
R6	0611009C13	33			switch, rocker:
R7	0611009C05	15	S1,2	4083849F02	spst, 8-position
R8	0611009C49	1000			non-referenced items:
R9	0611009C89	47K		0384256M01	SCREW, tapping (2 used)
R10	0611009C65	4700		0983697M01	CONTACT, receptacle (24 used)
R11	0611009C57	2200		4382721C01	BUSHING, snap-on (2 used)
R12	0611009C69	6800		5483865R01	LABEL, bar code (white)
R13	0611009C85	33K		5484246T01	LABEL, bar code
R14	0611009C53	1500		6483926G01	PANEL
R15	0611009C81	22K		0984728L01	SHORTING JUMPER (used with JU14,15,16)
R16	0611009C85	33K			1. In the statement of
R17,18	0611009C81	22K	NOTE: For opt	timum performance,	diodes, transistors, and integrated
R19	0611009C59	2700	circuit	ts must be ordered	by Motorola part number.
R20	0611009C73	10K			
R21	0611009C81	22K			
R22,23	0611009C61	3300			
R24	0611009C81	22K			
	0611009C73	10K	TLN4151A Rela	ay Kit	PL-11765
R25,26	0611045A37	330; 1/2W			
R27	0611045A42	510; 1/2W			
R28 R29	0611009C79	18K	REF. SYMBOL	PART NO.	DESCRIPTION
R30	0611009C63	3900			11-1 (
	0011000000				diode: (see note)

	4384920H01	SPACER, relay
K1	8084201A01	1A, 115VAC non-referenced item:
CR15	4882392B03	silicon relay:

NOTE: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part number.

NOTES:

1. UNLESS OTHERWISE STATED:

RESISTOR VALUES ARE IN OHMS (K = 1000) CAPACITOR VALUES ARE IN MICROFARADS 2. RELAY KIT IS AN DETIONAL ACCESSORY ITEM. REFER TO RELAY APPLICATION CHART FOR CRIS, JUB AND JUB USAGE, WITH RELAY.

3. USE OF THIS RESISTOR AND CAPACITOR IS DETERMINED AT FACTORY 4 REFER TO JUMPER TABLE

	JUMPER TABLE														
APPLICATION	JUI	JU2	JU3	JU4	JU5	JU6	JU7	JUB	JU9	JU10	JU11	JU12	JU13	JU14	JU15
LINE CONTROL BASE	ουτ	ουτ	IN	OUT	Ουτ	ουτ	IN .	IN	1N	οψτ	ουτ	ουτ	SELECTED DELAY	IN	ουτ
REPEATER (RT) STATION WITHOUT WIRELINE CONTROL	Ουτ	ουτ	İN	/N "#L"	/N	IN	IN	IN	λN.	IN	IN	IN	SELECTED DELAY	IN "CS"	IN "PL"
REPEATER (RT) STATION WITH WIRELINE CONTROL	αυτ	ουτ	IN	IN "PL"	NOTE 6	NOTE 6	<i>IN</i>	/N	ĨN	IN	Ουτ	1N-	SELECTED DELAY	VN ''CS''	IN "PL"
BASE (RA) STATION	<i>î</i> N	ουτ	IN.	1N "PL"	/N	1N	IN-	•	·	ουτ	ουτ	ουτ	SELECTED DELAY	/N ''CS''	IN "PL"
REFEATER (RA) STATION	оит	ουτ	IN	IN "PL"	/N	IN	ουτ	ŀ	•	ουτ	ουτ	ουτ	SELECTED DELAY	IN "CS"	IN "PL"
5. VOLTAGE READINGS S USO = UNSOUELCHI FSO = FULLY SOUE	ÉD		DR TWO	D COND	TIONS		L	1	I		*RELA	in the second	LICATION CI	HART	1

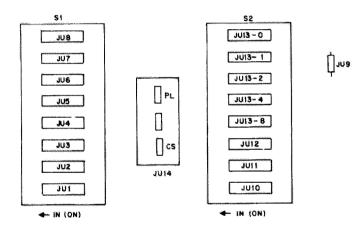
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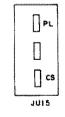
IN4151A DIODE ELAYKIT CR15 JUB JU9 R59 DTUSED OUT IN IN OUT SED IN DUT OUT IN

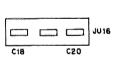
FSO = FULLY SOUELCHED 6. JUMPERS JUS & JUG ARE USED IN DC-CONTROLLED. "PL" REPEATER STATIONS WHEN SUCH STATIONS CONTAIN AN UNSUFFIXED DC TRANSFER MODULE.

7. FOR SPECTRA-TAC APPLICATIONS, JUIG IS IN THE C18 POSITION. FOR ALL OTHER APPLICATIONS, JUIG IS IN THT. C20 POSITION.

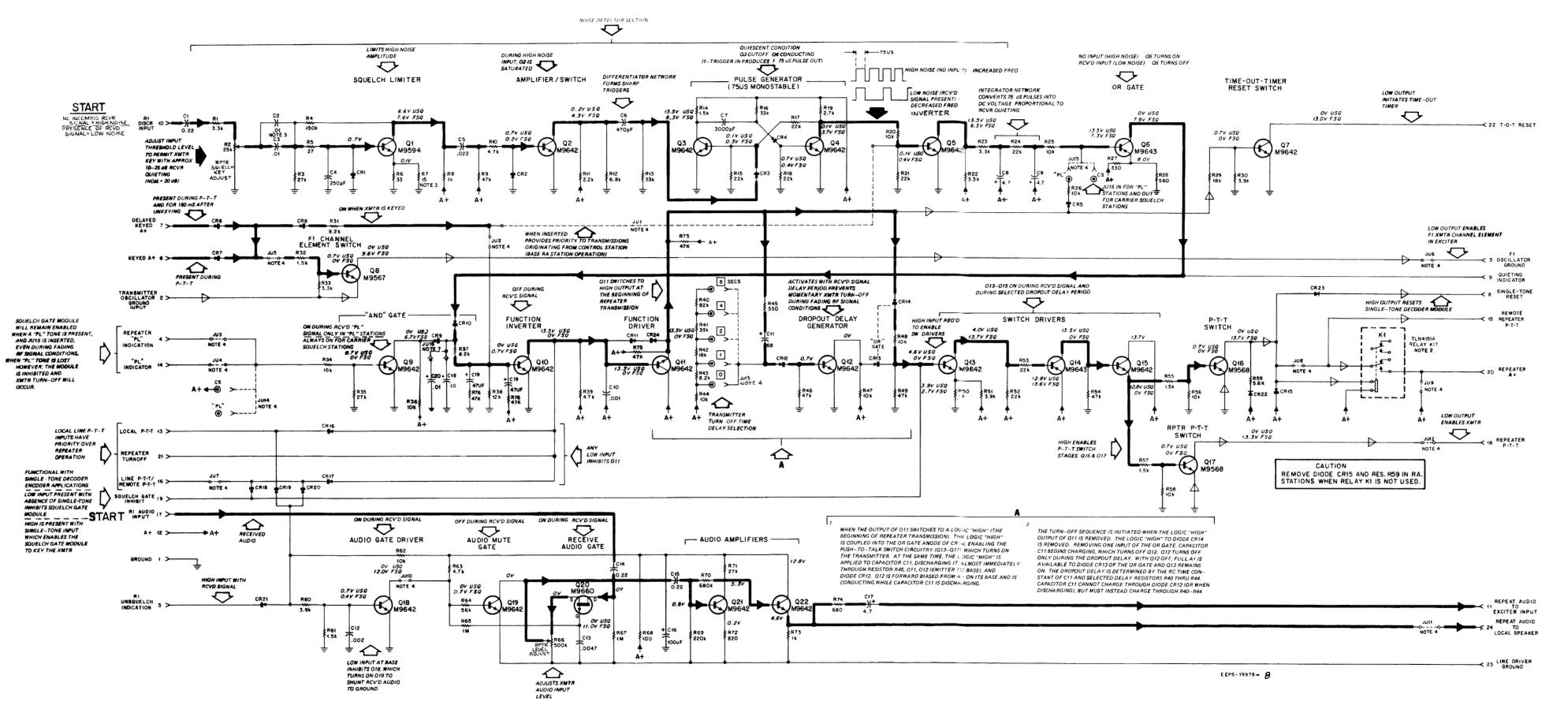
8. JUM.ºER LOCATIONS.



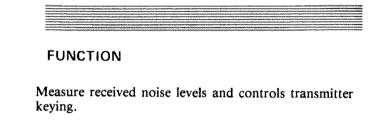


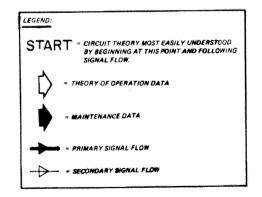


02 04 06 1 .2 .4 1.0 GURRENT (AMPERES) LOAD MUST BE In Shaded Area tln4151A Relay Kit Relay Contact Rating



SQUELCH GATE MODULE MODEL TRN6689B SCHEMATIC DIAGRAM





Motorola No. 68P81038E08-B (Sheet 2 of 2) 2/22/91

END OF DOCUMENT