

**K307A KEY TELEPHONE UNIT
Rotary Dial Selective Intercom**
(Including information on Tel-Touch Adapter P/N 182666-101)

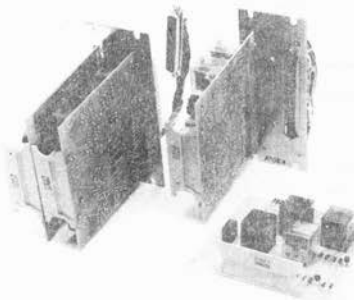


Fig. 1 - K307A Dial Intercom KTU And Tel-Touch Adapter P/N 182666-101

1.00 GENERAL INFORMATION

Scope

1.01 Section I of this Key System Practice (KSP) covers general information, identification, and installation for the K307A Dial Intercom Key Telephone Unit (KTU). Section II covers the Tel-Touch Adapter P/N 182666-101.

1.02 This KSP is re-issued to explain two applications of the TF, NC, and NO relay contacts on 160C card (Paragraphs 2.03 and 3.04, Tables C and D) and to revise Table D and Figures 4, 6, and 11).

1.03 The K307A KTU is designed for use in a K501 or K512 KTS to provide rotary dial selective intercom. It provides a single common talking path and a single spurt selective signaling for 9-stations but can be expanded to 18-station capacity by the addition of the K160B card. A connector is provided for the additional card.

1.04 The Tel-Touch Adapter, P/N 182666-101, is designed to be used with the K307A to provide a mixed rotary and Tel-Touch Dial Selective Intercom or pure Tel-Touch Dial Selective Intercom system.

2.00 IDENTIFICATION (See Table A)

2.01 The K307A KTU can be identified by code number K307A stamped on front of mounting panel. Approximate dimensions are 2 3/4" W x 7" H x 8" D.

2.02 The basic 9-station KTU consists of a mounting panel with two connectors, one plug-in printed circuit card (K160C), a card retaining bracket, and associated hardware.

Description of Components

2.03 K160C, Dial Intercom Card. One is used per system to provide rotary dial intercom for nine dial codes. The card includes a spare set of normally open (NO) contacts and a spare set of normally closed (NC) contacts. One side of the sets of contacts are common (Pin 21).

2.04 K160B, Dial Intercom Card. One is used for nine additional dial codes. Not furnished with the basic K307A unit but can be purchased separately to expand to eighteen stations as required.

2.05 The K307A Mounting Panel is designed to be mounted in a K501 or K512 KTS and is factory wired to accept the K160C Card and one K160B card. Connection to the KTS is by one 50-pin amphenol-type connector.

NOTE: If a cable harness is desired it must be ordered separately. (Table A.)

TABLE A. IDENTIFICATION, K307A KTU and Associated Equipment

Part Number	Description	No. Required
000307-00A	KTU, 9-Station Dial Intercom circuit (Basic Unit includes the following items):	1
KSP-307-00A-101	Key System Practice	1
182023-101	Screw, HWH 3/8" Self-Tapping	4
79400-102	Screw, RHM 3/8"	4
64127	Screw, RHM	2
182576-101	Card Retainer Assy.	1
182713-101	P. C. Assy. K160C KTU	1
182717-101	Mounting Panel Assy.	1
182481-101	P. C. Assy. K160B KTU (To add 9 dial codes) optional, order separately	1
182666-101	Pushbutton (Tone) Dial Adapter Kit	1
183044-101	Interconnect Cable for K501A (ITT System only) 9 stations	1
183045-101	Interconnect Cable for K512A (ITT System only) 9 stations	1

NOTE: Two types of 3/8" mounting screws will be shipped loose. Machine screws should be used in units with pretapped holes in mounting frame. Self-tapping screws should be used in the untapped holes.

3.00 INSTALLATION

CAUTION: Unplug KSU power cord before proceeding.

Mounting (See Figure 2)

3.01 Mount the K307A KTU in a K501A or K512A Key Service Unit (KSU), by installing unit to the front of the mounting frame using four 3/8" mounting screws supplied.

Connections

3.02 System connections to the K307A KTU are made via a 50-contact plug located on the back of the KTU. A connecting cable assembly must be ordered separately. (See Table A.)

3.03 Refer to Table C for connections to a Key Service Unit.

3.04 The NC Contacts of the 160C Card are intended to provide a "release control" for a paging adapter KTU. One side of the contacts must be connected to the 401PA A-lead and the other side to system ground.

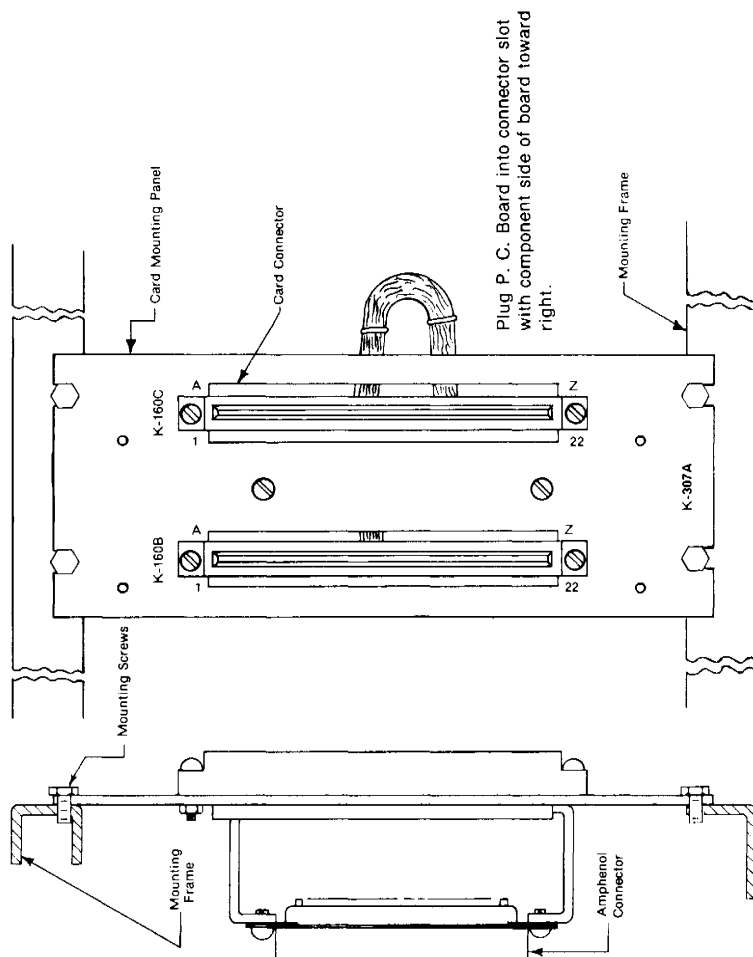


Fig. 2 - Install K307A Mounting Panel to front of KSU mounting frame.

18-Station Connections

3.05 To expand the K307A to 18-station dial intercom, order separately a K160B card and plug into the vacant prewired connector of the K307A.

3.06 Cut the ten red strap wires on back of K160B card connector between terminals 3 to 4, 5 to 6, 8 to 9, 10 to 11, 13 to 14, 15 to 16, E to F, H to J, M to N, and P to R.

NOTE: When the K307A is applied in a K501 or K512 KSU, use ringers for CO/PBX lines and buzzers for intercom signals or vice-versa with proper voltage.

3.07 Plug the K160C card into the properly marked connector slot with the component side toward the right.

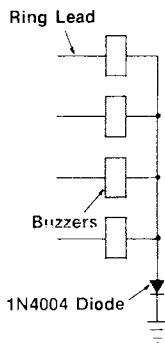


Fig. 3 - Use of Low Voltage Buzzers for Intercom Signaling.

NOTES:

- (1) If Low Voltage Buzzers are going to be used for signaling, all buzzer leads will have to be returned to GRD through one common diode such as 1N4004 in manner shown in fig. 3.
- (2) Diode is not required for high impedance Buzzers (110V 30HZ ringing voltage) or for ringers.

3.08 After completing the installation of the K307A KTU, plug the power cord into a 110VAC wall outlet and test all ring signals for proper code and ringing.

3.09 The K160C KTU contains a set of spare relay contacts; one normally open contact and one normally closed contact. One use for these spare contacts is in the installation of the 401-OPA Paging Adapter KTU, which requires that a lead (Pin 16) must be returned to ground through a normally closed relay contact. (K160C not in use.) To accomplish this TF (Pin 21) of K160C KTU is grounded and NC normally closed contact (Pin 20) is connected to Pin 16 of the 401-OPA KTU.

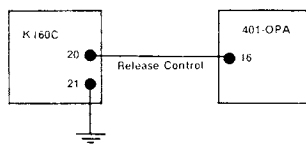


Diagram for connecting spare contacts to 401-OPA KTU

TABLE B. Abbreviations

Designation	Definition
T	Tip
R	Ring
AB	A Batt
AG	A Grd
L	Lamp
LG	Lamp Grd
RB	Ring Batt
RG	Ring Grd
LB	Lamp Batt
LF	Lamp Flash
CGC	Counter Grd Control
TFGC	Transfer Grd Control
PH	Tei-Touch Control Lead
TFG	Transfer Grd
LK	Link Control
J	Controlled Grd
TTG	Tei-Touch Grd
Y1	Y1 Relay Control
↓	↓
Y4	Y4 Relay Control
Y5	Y5 Relay Control
R2	Signal Leads
↓	↓
R20	Signal Leads
NO	Normal Open Contact
TF	Transfer Contact
NC	Normal Closed Contact
RS1	Ground
BV	Controlled Batt
TFR	Trans Input

TABLE C. Connections Between KSU and K-307A KTU

K-307A LEAD DESIGNATION	K-501 KSU	K-501A KSU	K-512 KSU	K-512A KSU	CABLE COLOR	K-307A TERMINAL	POWER SUPPLY TERMINAL
T	TBA-39	TBA-39	TBD-1	P5-26	WH-BL	P1-26	
R	TBA-40	TBA-40	TBD-2	P5-1	BL-WH	P1-1	
LG	TBA-43	TBA-43	TBD-21	P5-28	WH-GN		TB1-6
L	TBA-44	TBA-44	TBD-22	P5-3	GN-WH	P1-3	
RG	TBC-49	TBA-49	TBC-47	P5-4	BN-WH		TB1-6
RT1		NC	TBC-47	NC	OR-BK	P1-12	
RT2	TBB-2*	TBB-2*	TBE-4*	P5-38*	BK-GN	P1-38	
RT3	TBB-4		TBE-6	P5-13	GN-BK	P1-13	
RT4	TBB-6		TBE-8	P5-39	BK-BN	P1-39	
RT5	TBB-8		TBE-10	P5-14	BN-BK	P1-14	
RT6	TBB-10		TBE-12	P5-40	BK-SL	P1-40	
RT7	TBB-12		TBE-14	P5-15	SL-BK	P1-15	
RT8	TBB-14		TBE-16	P5-41	YL-BL	P1-41	
RT9	TBB-16		TBE-18	P5-16	BL-YL	P1-16	
RT0	TBB-18		TBE-20	P5-42	YL-OR	P1-42	
RT1	TBB-38		TBE-22	P5-17	OR-YL	P1-17	
RT22	TBB-40		TBE-24	P5-43	YL-GN	P1-43	
RT23	TBB-42		TBE-26	P5-18	GN-YL	P1-18	
RT24	TBB-44		TBE-28	P5-44	YL-BN	P1-44	
RT25	TBB-46		TBE-30	P5-19	BN-YL	P1-19	
RT26	TBB-48		TBE-32	P5-45	YL-SL	P1-45	
RT27	TBB-50		TBE-34	P5-20	SL-YL	P1-20	
RT28	TBA-46		TBE-36	P5-46	VI-BL	P1-46	
RT29	TBA-48		TBE-38	P5-21	BL-VI	P1-21	
RT20	TBA-50		TBE-40	P5-47	VI-OR	P1-47	
LB	TBC-38	TBA-50	TBC-40	NA	WH-SL	P1-30	TB1-2**
LB	TBC-40	TBC-40	NA		SL-WH	P1-5	TB1-5**
RB	TBC-48	TBC-48	TBC-48		WH-BN	P1-29	TB1-3**
AB	TBC-44	TBC-44	TBC-44		WH-OR	P1-27	TB1-7**
AG	TBC-43	TBC-43	TBC-43		OR-WH	P1-2	
NO					OR-VI	P1-22	
TF					VI-GN	P1-48	
NC					GN-VI	P1-23	

* 9-Station Only

** K-512A KSU Only

TABLE D. K307A Connector Lead Designations

CIRCUIT	AMPHENOL CONNECTOR PLUG ON BACK OF K 307A KTU				P.C. CONNECTOR	
	LEAD DESIG.	COLOR	TERMINAL	PLUG	J1	J2
K 307A CONNECTIONS FOR 9 STATIONS (INPUT FROM POWER SUPPLY)	T	W - BL	26	PLUG 1	17	-
	R	BL - W	1		E	-
	AB	W - O	27		22	-
	AG	O - W	2		I	I
	LG	W - G	28		M	-
	L	G - W	3		T	-
TEL- TOUCH CONTROL LEADS	RB	W - BR	29		N	-
	RG	BR - W	4		-	Y
	LB	W - SL	30		R	-
	LF	SL - W	5		S	-
NOT RECOM. FOR RD INTERCOM. TRANSFER DIGIT FOR 18 STATIONS	CGC	R - BL	31		A	U
	TFGC	BL - R	6		B	C
	RH	R - O	32		11	-
	TFG	O - R	7		7	A
	-5V	R - G	33		D	-
	LK	G - R	8		15	22
	J	R - BR	34		16	19
	TTG/RS 1	BR - R	9		Z	1
	Y1	R - SL	35		13	-
	Y2	SL - R	10		14	-
SIGNAL LEADS FOR 9 STATIONS R2 THROUGH R0	Y3	BK - BL	36		19	-
	Y4	BL - BK	11		6	-
	Y5	BK - O	37		C	-
	R1	O - BK	12		2	3-4
SIGNAL LEADS FOR 18 STATIONS R3 THROUGH R20	R2	BK - G	38		12	5-6
	R3	G - BK	13		8	8-9
	R4	BK - BR	39		3	10-11
	R5	BR - BK	14		10	13-14
RELAY CONTACTS ON 160C	R6	BK - SL	40		9	15-16
	R7	SL - BK	15		5	E-F
	R8	Y - BL	41		X	H-J
	R9	BL - Y	16		Y	M-N
SIGNAL LEADS FOR 18 STATIONS R3 THROUGH R20	R0	Y - O	42		4	P-P
	R21	O - Y	17		-	2
	R22	Y - G	43		-	T
	R23	G - Y	18		-	7
RELAY CONTACTS ON 160C	R24	Y - BR	44		-	12
	R25	BR - Y	19		-	18
	R26	Y - SL	45		-	17
	R27	SL - Y	20		-	D
RELAY CONTACTS ON 160C	R28	V - BL	46		-	K
	R29	BL - V	21		-	L
	R20	V - O	47		-	S
	NO	O - V	22		U	-
RELAY CONTACTS ON 160C	TF	V - G	48		21	-
	NC	G - V	23		20	-
RELAY CONTACTS ON 160C	BV	V - BR	49		18	B
		BR - V	24			
RELAY CONTACTS ON 160C		V - SL	50			
		SL - V	25			
FACTORY DESIGNATIONS (WILL NOT APPEAR ON CONNECT- ING BLOCK)	RB OUT				P	-
	RT				W	-
	BV				18	B
	RS1					1
						20

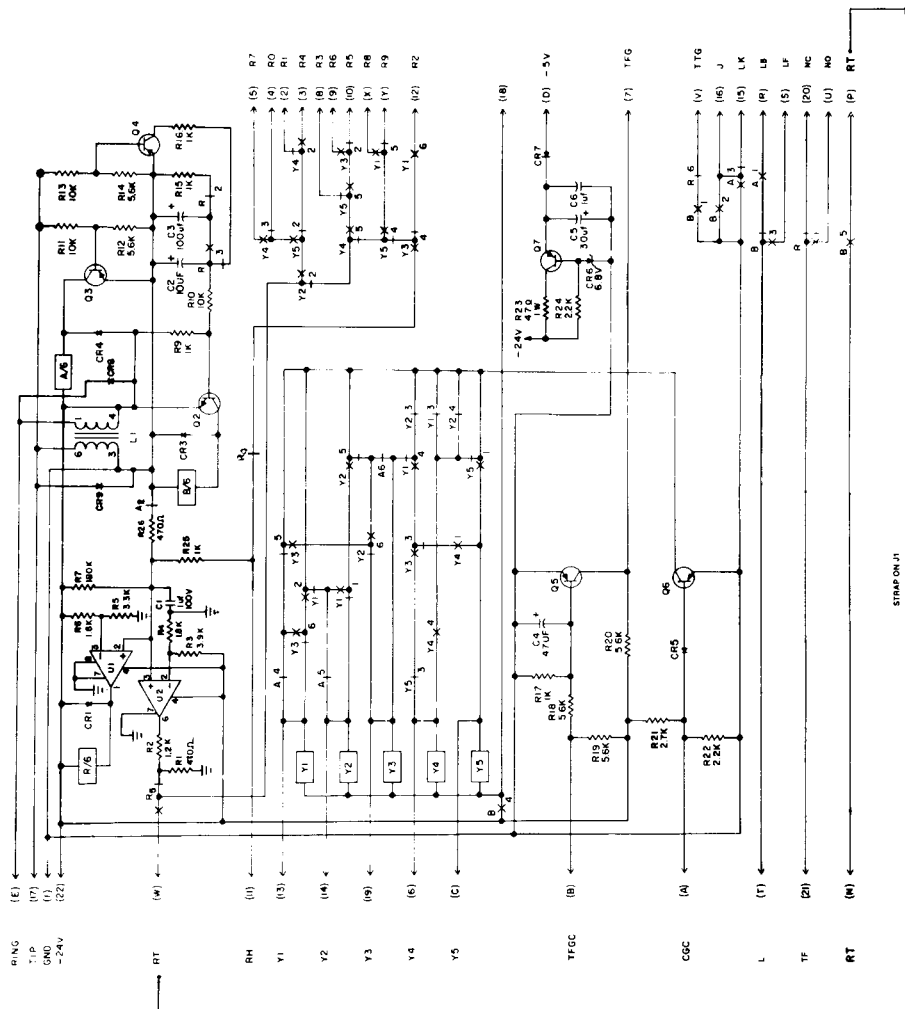


Fig. 4 - Circuit Diagram, K160C KTU

STRAP ON J1

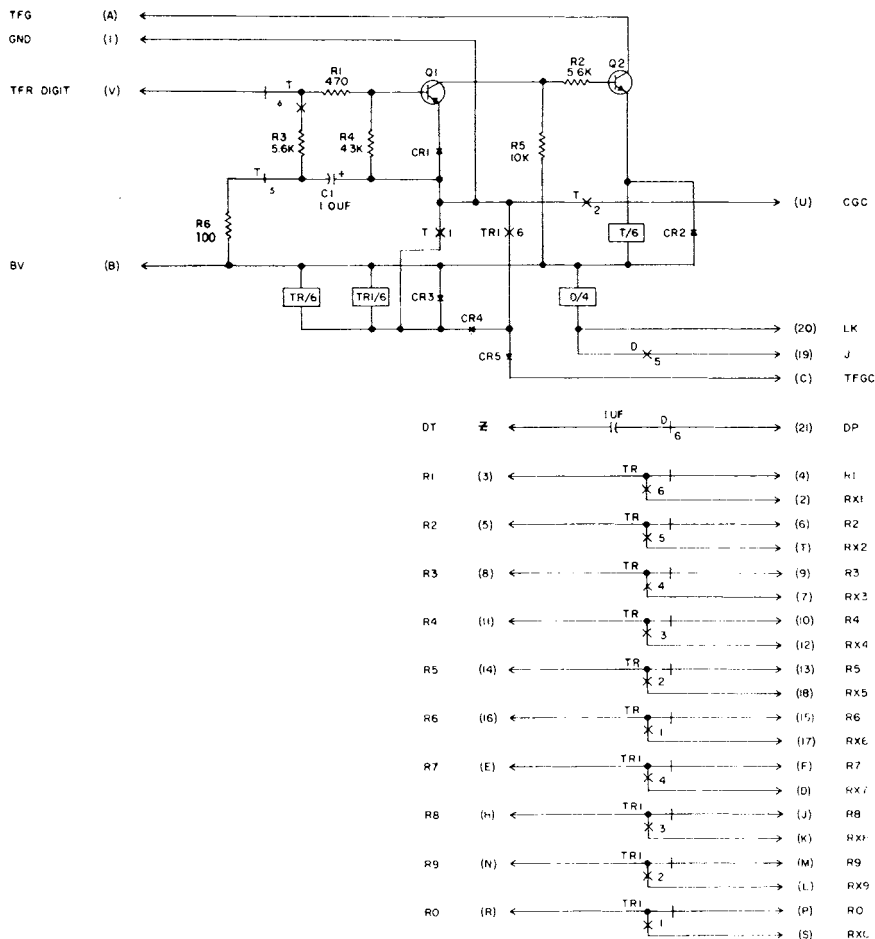


Fig. 5 - Circuit Diagram, K160B KTU

K160C										K160B										K160A										
P31	R/B	1	CCG	AG	1	O/W	J2-1	J1-7	Q/R	A	TFC	GND	1	O/W	J1-1	J1-2	J1-3	J1-4	J1-5	J1-6	J1-7	J1-8	J1-9	J1-10	J1-11	J1-12	J1-13	J1-14	J1-15	J1-16
J2-U	R/B	2	CCG	AG	2	O/W	P2	J1-8	R	B	TVG	R1	2	O/W	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32
J2-V	R/B	3	CCG	AG	3	O/W	J2-2	J1-9	R	B	TVG	R1	3	O/W	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33
J2-W	R/B	4	CCG	AG	4	O/W	J2-3	J1-10	R	B	TVG	R1	4	O/W	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34
J2-X	R/B	5	CCG	AG	5	O/W	J2-4	J1-11	R	B	TVG	R1	5	O/W	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35
J2-Y	R/B	6	CCG	AG	6	O/W	J2-5	J1-12	R	B	TVG	R1	6	O/W	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36
J2-Z	R/B	7	CCG	AG	7	O/W	J2-6	J1-13	R	B	TVG	R1	7	O/W	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37
J2-1	R/B	8	CCG	AG	8	O/W	J2-7	J1-14	R	B	TVG	R1	8	O/W	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38
J2-2	R/B	9	CCG	AG	9	O/W	J2-8	J1-15	R	B	TVG	R1	9	O/W	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39
J2-3	R/B	10	CCG	AG	10	O/W	J2-9	J1-16	R	B	TVG	R1	10	O/W	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40
J2-4	R/B	11	CCG	AG	11	O/W	J2-10	J1-17	R	B	TVG	R1	11	O/W	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41
J2-5	R/B	12	CCG	AG	12	O/W	J2-11	J1-18	R	B	TVG	R1	12	O/W	P27	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42
J2-6	R/B	13	CCG	AG	13	O/W	J2-12	J1-19	R	B	TVG	R1	13	O/W	P28	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43
J2-7	R/B	14	CCG	AG	14	O/W	J2-13	J1-20	R	B	TVG	R1	14	O/W	P29	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44
J2-8	R/B	15	CCG	AG	15	O/W	J2-14	J1-21	R	B	TVG	R1	15	O/W	P30	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45
J2-9	R/B	16	CCG	AG	16	O/W	J2-15	J1-22	R	B	TVG	R1	16	O/W	P31	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46
J2-10	R/B	17	CCG	AG	17	O/W	J2-16	J1-23	R	B	TVG	R1	17	O/W	P32	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47
J2-11	R/B	18	CCG	AG	18	O/W	J2-17	J1-24	R	B	TVG	R1	18	O/W	P33	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48
J2-12	R/B	19	CCG	AG	19	O/W	J2-18	J1-25	R	B	TVG	R1	19	O/W	P34	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49
J2-13	R/B	20	CCG	AG	20	O/W	J2-19	J1-26	R	B	TVG	R1	20	O/W	P35	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50
J2-14	R/B	21	CCG	AG	21	O/W	J2-20	J1-27	R	B	TVG	R1	21	O/W	P36	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51
J2-15	R/B	22	CCG	AG	22	O/W	J2-21	J1-28	R	B	TVG	R1	22	O/W	P37	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52
J2-16	R/B	23	CCG	AG	23	O/W	J2-22	J1-29	R	B	TVG	R1	23	O/W	P38	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53
J2-17	R/B	24	CCG	AG	24	O/W	J2-23	J1-30	R	B	TVG	R1	24	O/W	P39	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54
J2-18	R/B	25	CCG	AG	25	O/W	J2-24	J1-31	R	B	TVG	R1	25	O/W	P40	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55
J2-19	R/B	26	CCG	AG	26	O/W	J2-25	J1-32	R	B	TVG	R1	26	O/W	P41	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56
J2-20	R/B	27	CCG	AG	27	O/W	J2-26	J1-33	R	B	TVG	R1	27	O/W	P42	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57
J2-21	R/B	28	CCG	AG	28	O/W	J2-27	J1-34	R	B	TVG	R1	28	O/W	P43	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58
J2-22	R/B	29	CCG	AG	29	O/W	J2-28	J1-35	R	B	TVG	R1	29	O/W	P44	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59
J2-23	R/B	30	CCG	AG	30	O/W	J2-29	J1-36	R	B	TVG	R1	30	O/W	P45	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60
J2-24	R/B	31	CCG	AG	31	O/W	J2-30	J1-37	R	B	TVG	R1	31	O/W	P46	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61
J2-25	R/B	32	CCG	AG	32	O/W	J2-31	J1-38	R	B	TVG	R1	32	O/W	P47	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62
J2-26	R/B	33	CCG	AG	33	O/W	J2-32	J1-39	R	B	TVG	R1	33	O/W	P48	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63
J2-27	R/B	34	CCG	AG	34	O/W	J2-33	J1-40	R	B	TVG	R1	34	O/W	P49	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64
J2-28	R/B	35	CCG	AG	35	O/W	J2-34	J1-41	R	B	TVG	R1	35	O/W	P50	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65
J2-29	R/B	36	CCG	AG	36	O/W	J2-35	J1-42	R	B	TVG	R1	36	O/W	P51	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66
J2-30	R/B	37	CCG	AG	37	O/W	J2-36	J1-43	R	B	TVG	R1	37	O/W	P52	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67
J2-31	R/B	38	CCG	AG	38	O/W	J2-37	J1-44	R	B	TVG	R1	38	O/W	P53	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68
J2-32	R/B	39	CCG	AG	39	O/W	J2-38	J1-45	R	B	TVG	R1	39	O/W	P54	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69
J2-33	R/B	40	CCG	AG	40	O/W	J2-39	J1-46	R	B	TVG	R1	40	O/W	P55	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70
J2-34	R/B	41	CCG	AG	41	O/W	J2-40	J1-47	R	B	TVG	R1	41	O/W	P56	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71
J2-35	R/B	42	CCG	AG	42	O/W	J2-41	J1-48	R	B	TVG	R1	42	O/W	P57	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72
J2-36	R/B	43	CCG	AG	43	O/W	J2-42	J1-49	R	B	TVG	R1	43	O/W	P58	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73
J2-37	R/B	44	CCG	AG	44	O/W	J2-43	J1-50	R	B	TVG	R1	44	O/W	P59	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74
J2-38	R/B	45	CCG	AG	45	O/W	J2-44	J1-51	R	B	TVG	R1	45	O/W	P60	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75
J2-39	R/B	46	CCG	AG	46	O/W	J2-45	J1-52	R	B	TVG	R1	46	O/W	P61	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76
J2-40	R/B	47	CCG	AG	47	O/W	J2-46	J1-53	R	B	TVG	R1	47	O/W	P62	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77
J2-41	R/B	48	CCG	AG	48	O/W	J2-47	J1-54	R	B	TVG	R1	48	O/W	P63	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P78
J2-42	R/B	49	CCG	AG	49	O/W	J2-48	J1-55	R	B	TVG	R1	49	O/W	P64	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P78	P79
J2-43	R/B	50	CCG	AG	50	O/W	J2-49	J1-56	R	B	TVG	R1	50	O/W	P65	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P78	P79	P80
J2-44	R/B	51	CCG	AG	51	O/W	J2-50	J1-57	R	B	TVG	R1	51	O/W	P66	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P78	P79	P80	P81
J2-45	R/B	52	CCG	AG	52	O/W	J2-51	J1-58	R	B	TVG	R1	52	O/W	P67	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P78	P79	P80	P81	P82
J2-46	R/B	53	CCG	AG	53	O/W	J2-52	J1-59	R	B	TVG	R1	53	O/W	P68	P69	P70	P71	P72	P73	P74	P75	P76	P77	P					

SECTION II. TEL-TOUCH ADAPTER P/N 182666-101

(For use with K307A Dial Intercom KTU)

1.00 GENERAL INFORMATION

1.01 The Tel-Touch Adapter is designed to work with the K307A KTU as a plug-in option to convert a rotary dial intercom to a pushbutton dial intercom system or a mixed rotary and pushbutton dial intercom system.

2.00 IDENTIFICATION (See Table E)

2.01 The Tel-Touch Adapter should be ordered separately by P/N 182666-101. Approximate dimensions of the Tel-Touch Adapter are 2 1/4" W x 7" H x 8" D.

2.02 Contents of the kit are a mounting panel, one K166A KTU plug-in printed circuit card, one K166B KTU plug-in printed circuit card, one prewired cable harness, and associated hardware.

Description of Components

2.03 The Mounting Panel is designed to be mounted in a K501A or K512A KTS and is factory wired to accept the K166A and the K166B cards. Connections to the KTS is by one 50-pin amphenol-type connector.

2.04 K166A Pushbutton (Tone) Dial Detector Card. One card is used per system in conjunction with a K166B Translator card to adapt the K307A intercom KTU to accommodate pushbutton dialing.

2.05 K166B Pushbutton (Tone) Dial Translator Card. One used per system in conjunction with a K166A Detector card to adapt the K307A intercom KTU to accommodate pushbutton dialing.

TABLE E. IDENTIFICATION, TEL-TOUCH ADAPTER

Part Number	Description	No. Required
182666-101	Tel-Touch Adapter (Basic unit contains the following items)	1
182667-101	Instruction Sheet	1
79400-102	Screw, RHM 3/8"	4
182023-101	Screw, HWH 3/8" Self-Tapping	4
64127	Screw, RHM	4
182576-101	Card Retainer Assy.	2
182520-101	P. C. Assy. K166B	1
182516-101	P. C. Assy. K166A	1
182665-101	Mounting Panel Assy.	1

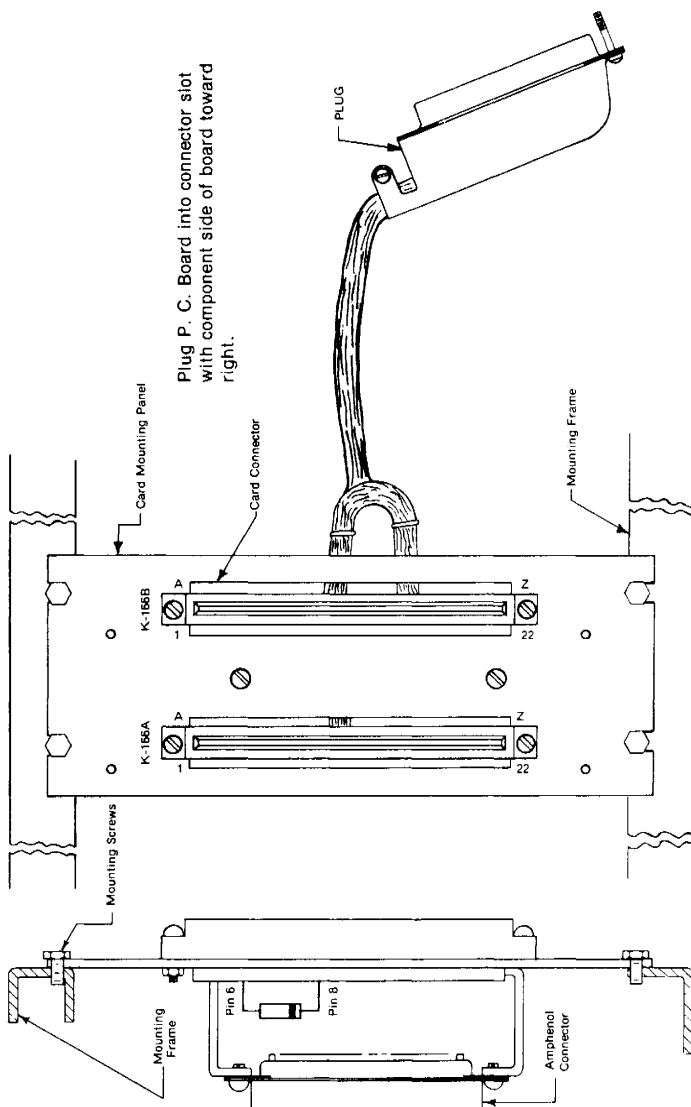


Fig. 7 - Install Tel-Touch Adapter Panel to Front of KSU Mounting Frame.

3.00 INSTALLATION

TABLE F. Abbreviations

CAUTION: Unplug KSU power cord before proceeding.

Mounting (See Figure 7.)

3.01 Mount the Tel-Touch Adapter Mounting Panel in a K501A or K512A Key Service Unit (KSU), by installing the unit to the front of the mounting frame using four 3/8" mounting screws supplied. The Mounting Panel should be mounted to the left side of the K307A Dial Intercom Mounting Panel.

NOTE: Two types of 3/8" mounting screws will be shipped loose. Machine screws should be used in units with pretapped holes in mounting frame. Self-tapping screws should be used in the untapped holes.

Connections Between Tel-Touch Adapter and K307A.

3.02 When a K307A KTU has been previously installed, it will be necessary to unplug the connector on back of the K307A and plug it to the plug on back of the Tel-Touch Adapter.

3.03 Take the loose cable from the Tel-Touch Adapter and plug it into the connector on back of the K307A.

3.04 Plug the K166A and K166B Tel-Touch cards into their appropriate connectors with the component side of card to the right.

3.05 After completing the installation of the Tel-Touch Adapter, plug the power cord into a 110VAC wall outlet and test all ring signals for proper code and ringing.

Designation	Definition
TT1	Outputs from Tel-Touch Rec.
↓	↓
TT5	Outputs from Tel-Touch Rec.
L1	Filter outputs low group
↓	↓
L4	Filter outputs low group
H1	Filter outputs high group
↓	↓
H3	Filter outputs high group
HG	High band filter
LG	Low band filter
TT	Tel-Touch input
AB	A Batt.
AG	A GRD
CG	Counter GRD Control
LK	Link Control
Y1	Y1 Relay Control
↓	↓
Y5	Y5 Relay Control

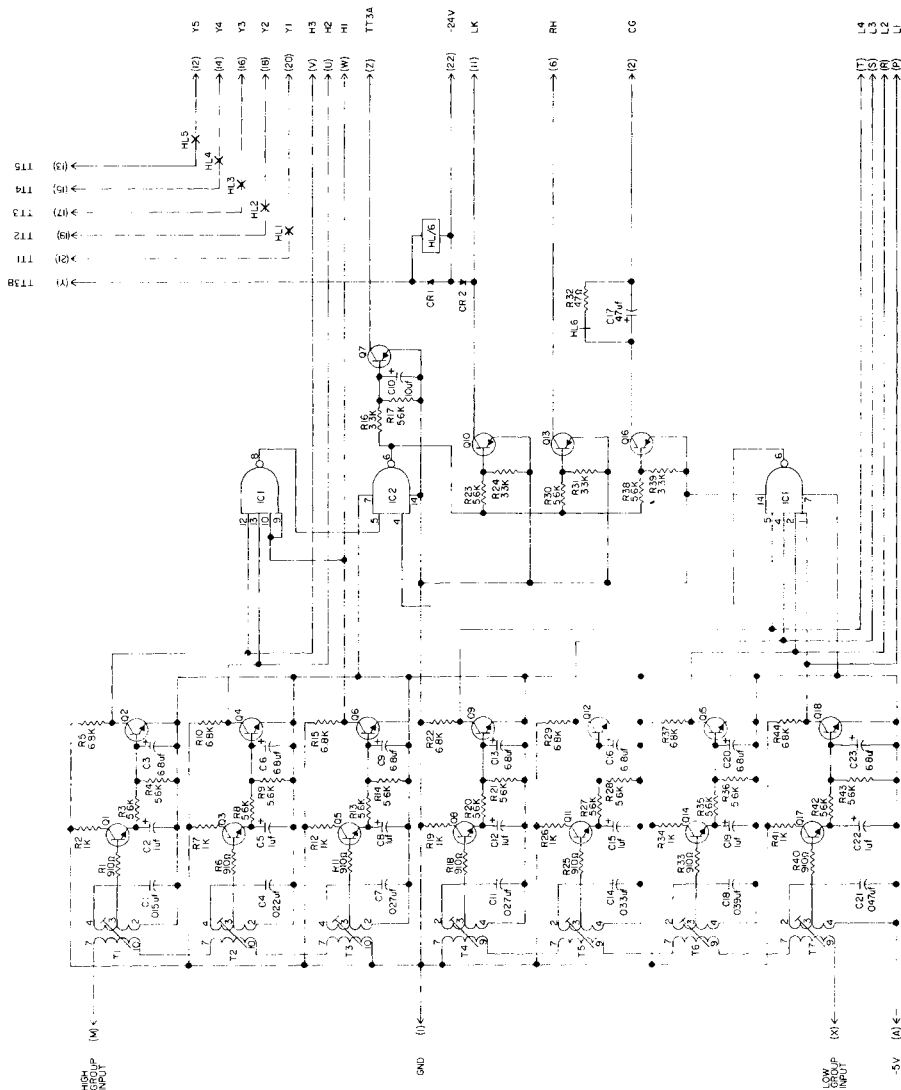


Fig. 8 - Circuit Diagram, K166A KTU

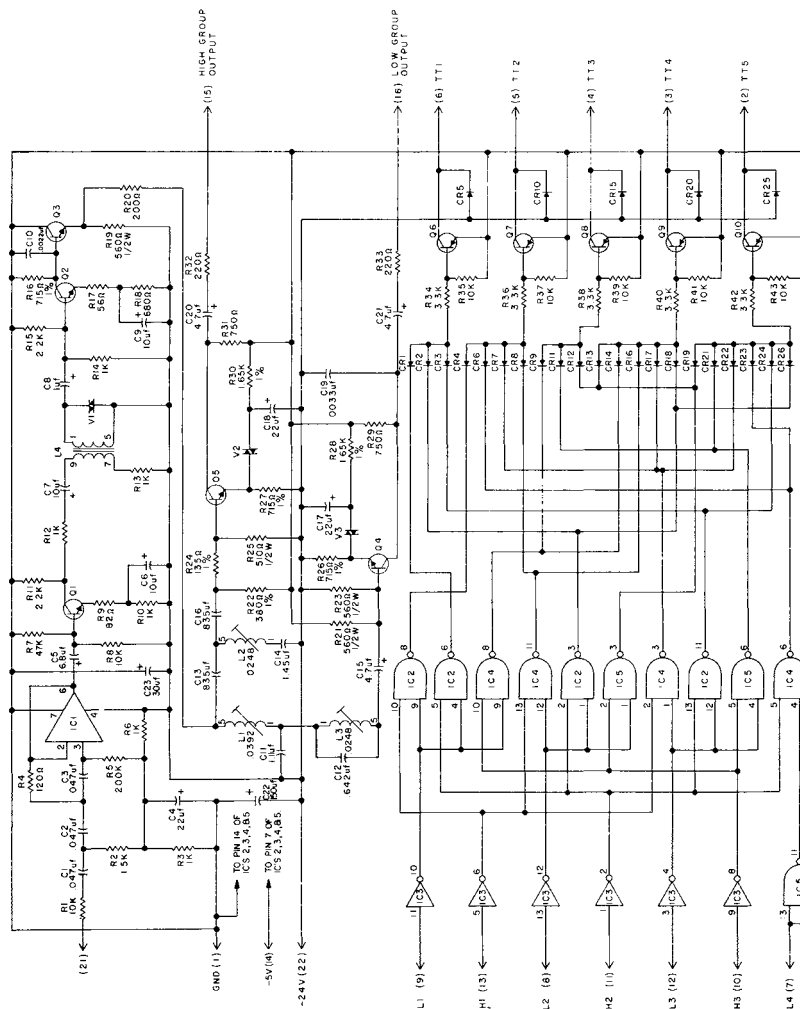


Fig. 9 - Circuit Diagram, K166B KTU

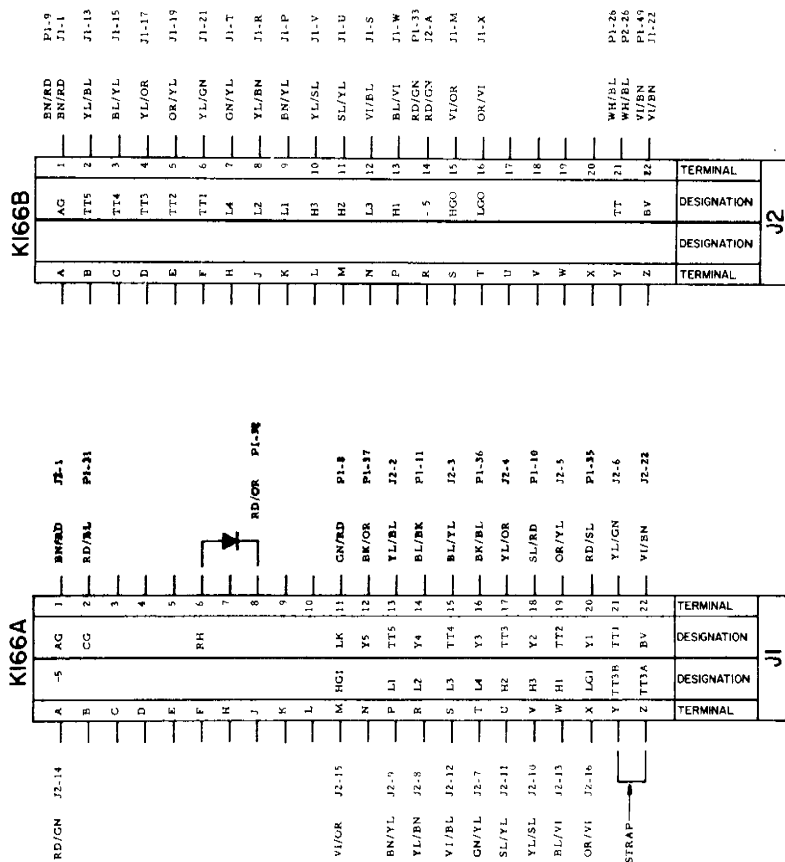


Fig. 10 - Tel-Touch Adapter Interconnections J1 and J2

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