

## 8A ANNOUNCEMENT SYSTEM

### USING KS-16765, L1 ANNOUNCEMENT SET

### OR 2-TYPE TELEPHONE ANSWERING SET

#### 1. GENERAL

(a) This section is reissued to:

- Add connections for the 565LK and 565GK telephone sets — recommended replacements for the 565LA and 565GB sets, respectively, which are rated Manufacture Discontinued.
- Show the 2-type telephone answering set Manufacture Discontinued.
- Delete telephone set schematics and revise connection information.

(b) The term “announcement set” refers to either the 2-type telephone answering set or KS-16765, List 1 announcement set. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

#### 2. IDENTIFICATION

(a) **Purpose:** The 8A Announcement System delivers a sponsored announcement of short duration such as theater time schedules, prayer of the day, sales information, etc, to up to 20 customers simultaneously.

(b) **Ordering Guide:** The system is comprised of the following components:

- Announcements Sets  
Set, Answering, Telephone, 2-type (MD)  
Set, Announcement, KS-16765, List 1
- Telephone Sets  
Set, Telephone, 500C  
Set, Telephone, 565LA (MD)  
Set, Telephone, 565GB (MD)  
Set, Telephone, 565LK  
Set, Telephone, 565GK
- Key, 6017E

Identification of system components is covered in sections pertaining to that component.

#### (c) *Design Features*

- Single channel operation provides for:
  - (1) Announcement recording and check
  - (2) Automatic answering
  - (3) Normal line functions in case of power failure
  - (4) Audible signal using telephone set ringer during power failure or failure of either or both announcement sets, indicating a call is waiting to be answered.
- Dual channel operation provides for all features of single channel operation plus:
  - (1) Dictation of announcement on one machine while other is in service.
  - (2) Announcement check on either set.
  - (3) Either set may be transferred to the line.
  - (4) Line announcement can be made during failure of power or sets.
- Announcements may be recorded from an external speech source, such as a tape recorder, when KS-16765, List 1 set is used. Such installations must be engineered locally to meet individual requirements.

#### (d) *Application*

- Used with individual central office lines. System components are located on the customer's premises and coupled to a single distribution amplifier and optional voice alarm to indicate voice failure on announcement bus in the central office over a pair in the telephone plant. Refer to sections entitled 8A or 9A Announcement Systems — Station Control Apparatus.

## 3. INSTALLATION

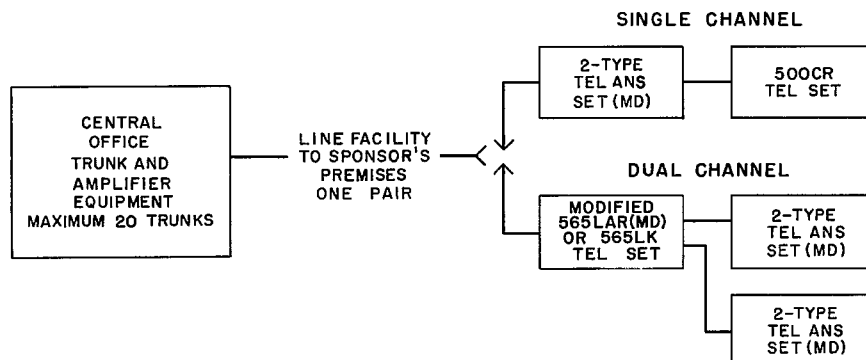


Fig. 1 — 8A Announcement System Using 2-Type Telephone Answering Set (MD), Block Diagram

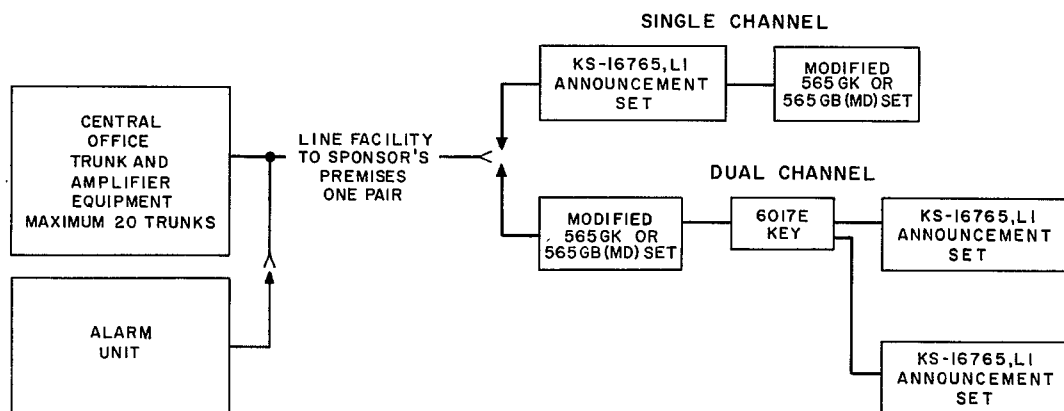


Fig. 2 — 8A Announcement System Using KS-16765, L1 Announcement Set, Block Diagram

(a) *Installing*

## (1) Telephone Sets

- Key telephone sets must be modified as shown in Tables A through F.
- Prepare designation strips for key sets as shown in Fig. 3, 4, and 5.

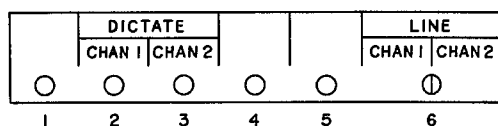
(b) *Announcement Sets*

- Announcement sets should be installed in accordance with the installation sections for those items.

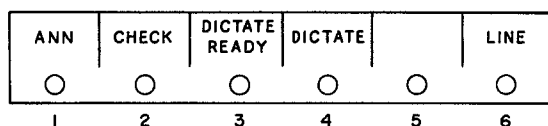
- When using 2-type announcement sets, replace mounting cord with a D3BK for single channel service or D6W cord for dual channel service. Connect KS-16765, List 1 sets by means of inside wiring cable.

## 4. OPERATION

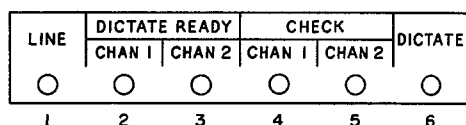
- (a) Some areas may wish commercial or traffic departments to provide final instructions for the sponsor's attendant. Be guided by local instructions.



**Fig. 3 — Designation Strip for 565LAR (MD) or 565LK Telephone Set Associated with 2-Type Telephone Answering Set—Dual Channel Service**



**Fig. 4 — Designation Strip for 565GBR (MD) or 565GK Telephone Set Associated with KS-16765, List 1 Announcement Set — Single Channel Service**



**Fig. 5 — Designation Strip for 565GBR (MD) or 565GK Telephone Set Associated with KS-16765, List 1 Announcement Set — Dual Channel Service**

**(b) 2-Type Telephone Answering Set — Single Channel Operation — 500C Telephone Set**

- Operation of announcement dictation and check, and automatic answer is covered in the section entitled 2A Telephone Answering Set — Operation
- Single channel operation is the same as dual channel except the pickup key and turnbutton are not required.

**(c) 2-Type Telephone Answering Set — Dual Channel Operation — 565LAR (MD) or 565LK Telephone Set**

- The telephone set may be connected to either announcement set by operating the pickup key associated with the answering set, which connects the common circuits to the announcement set. A message may then be dictated, checked, or monitored.

- The line facility can be transferred from one announcement set to the other by means of the turnbutton key. This permits transferring machines in case of set failure, or dictation and check of message on spare machine without service interruption.
- The announcement being transmitted by the announcement set in service may be monitored with the handset by operating the associated pickup key. There is no transmitter current under this condition and no interference with the announcement.
- The telephone set ringers are connected so that they are associated with the announcement set which has the pickup key operated. Ringer will operate when line is connected to that announcement set and function switch is in the OFF position.
- Line announcements can be made in the case of power failure or failure of both announcement sets. Operate pickup and turnbutton keys to connect one announcement set to the line. Function switch of the set must be in the OFF position. Telephone set ringer will sound on incoming call and is answered by lifting handset after which line announcement can be made. Connection must be broken by restoring handset after each announcement. If another call is waiting, ringer will re-operate and call is answered in same manner. When power is restored or announcement sets are repaired, system is restored by turning function switch to automatic answering. First calls should be monitored to ensure that announcement is being transmitted.

**(d) KS-16765, L1 Announcement Set — Single Channel Operation — 565GBR (MD) or 565GK Telephone Set**

- To record announcement:
  - (1) Remove handset and operate locking DICTATE READY key.
  - (2) Press and hold nonlocking DICTATE key and wait for DICTATE READY lamp to light. Lamp indicates that

any previously recorded message has been erased and the set is ready to record new announcement.

- (3) Continue to press DICTATE key and dictate announcement in normal voice into telephone set transmitter.
  - (4) Release DICTATE key immediately after end of announcement. Station ringer is disabled during dictate to prevent sound of ringer being recorded.
- To check announcement:
    - (1) Remove handset and operate locking CHECK key. Announcement will be heard in telephone receiver but is isolated from line.
    - (2) After checking announcement, operate LINE or ANNOUNCE key, depending on condition desired.
  - Automatic Answer:
    - (1) Locking ANNOUNCE key must be operated.
    - (2) Incoming ring will be tripped by announcement set and ANNOUNCE lamp will light.
    - (3) Recorded announcement is transmitted after which set automatically resets itself for next call.
  - To use telephone set as a regular station, operate locking LINE key.
  - (e) ***KS-16765, L1 Announcement Set — Dual Channel Operation — 565GBR (MD) or 565GK Telephone Set***
    - To record announcement on channel 1:
      - (1) Operate 6017E key to channel 2.
      - (2) Remove handset and operate locking DICTATE READY key for channel 1.
      - (3) Record announcement in same manner as for single channel operation.

- To record announcement on channel 2:
  - (1) Operate 6017E key to channel 1
  - (2) Remove handset and operate locking DICTATE READY key for channel 2
  - (3) Record announcement in same manner as for single channel operation.
- To record announcement from external speech source:
  - (1) Depress desired DICTATE READY key without removing handset.
  - (2) Operate and hold DICTATE key and wait for DICTATE READY lamp to light. Lamp indicates that any previously recorded message has been erased and set is ready to record new announcement.
  - (3) Continue to hold DICTATE key and start transmission of external speech source.
  - (4) Release DICTATE key immediately after message is completed.
- To check recorded announcement — channel 1:
  - (1) Operate 6017E key to channel 2
  - (2) With handset off-hook, operate CHECK key, channel 1. Recorded announcement will be heard over receiver but will be isolated from line.
  - (3) After checking announcement, replace handset and release CHECK key by partially depressing one of the other locking keys. CHECK key must be released to prevent machine from checking announcement repeatedly even though handset is on-hook.
- To check recorded announcement — channel 2:
  - (1) Operate 6017E key to channel 1

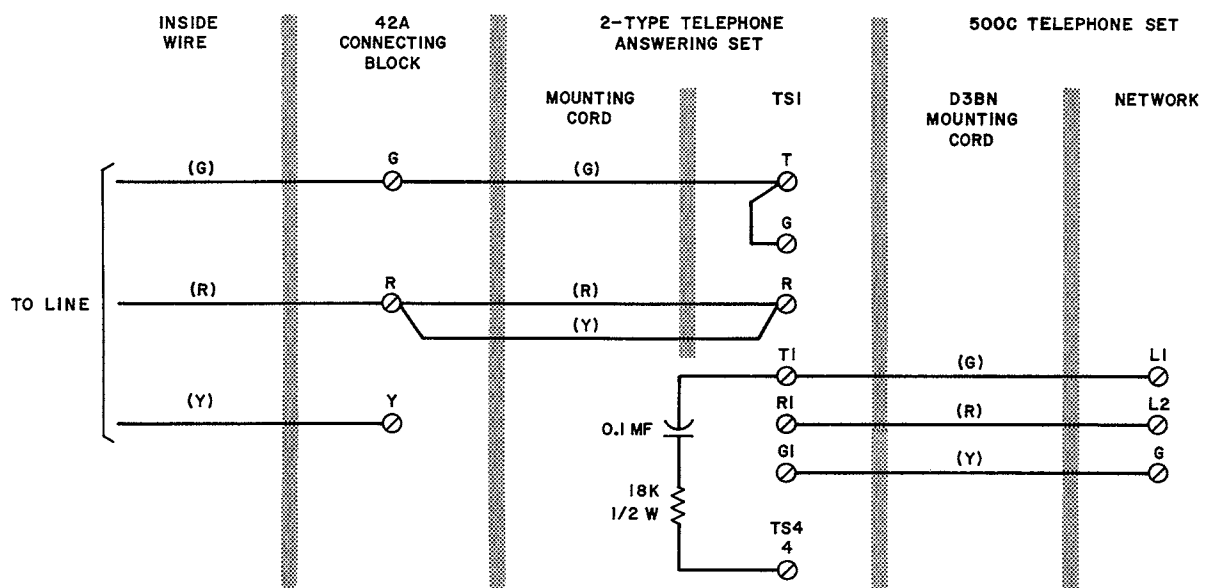
- (2) With handset off-hook, operate locking CHECK key, channel 2
- (3) Balance of check is the same as for channel 1.
- Telephone set ringer may be disabled during check cycle by operating exclusion key.
- To use telephone as a regular station, operate 6017E key to center position and depress LINE key on telephone set. This disconnects telephone set from announcement sets.
- (b) Key telephone sets used must be modified as shown in Tables A through F.
- (c) When using 2-type telephone answering sets, add resistor and capacitor as shown in Fig. 6, 7, and 8 so that attendant can monitor announcement.
- (d) Detailed schematics of the components and connections can be found in:
  - CD- and SD-95268-01
  - CD- and SD-69341-01
  - CD- and SD-95293-01

## 5. CONNECTIONS

- (a) Connections for the components of the 8A Announcement System are shown in Fig. 6 through 12.

## 6. MAINTENANCE

- (a) Maintenance of the components of the system is covered in sections pertaining to that particular component.



**Fig. 6 — Single Channel Service Using 2-Type Telephone Answering Set (MD) and 500C Telephone Set**

TABLE A

**MODIFICATION OF 565LA TELEPHONE SET  
DUAL CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Ringer	R	1R	R
	BK	1T	M
Cutoff Key	G-W	2T	3T
	R-W	2R	3R
Place strap (M1W cord or equivalent)			4T to XT
			4R to XR
Block hold key and 3rd and 4th pickup keys			

TABLE C

**MODIFICATION OF 565GB TELEPHONE SET (MD)  
SINGLE CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Ringer	R	1R	6R
	BK	1T	EB
Key	S-BR	M	3H
Place strap (M1W cord or equivalent)			2R to 3R
			2T to 3T
Convert 4th key to nonlocking			
Block 5th key inoperative			

TABLE B

**MODIFICATION OF 565LK TELEPHONE SET  
DUAL CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Ringer	R	RR	9
	BK	RT	M
Cutoff Key	Y-BR	2T	3T
	BR	2R	3R
Place strap (M1W cord or equivalent)			4T to XT
			4R to XR
Block hold key and 3rd and 4th pickup keys			

TABLE D

**MODIFICATION OF 565GB TELEPHONE SET (MD)  
DUAL CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Exclusion Key	BL	ER	*
	BR-R	EB	*
	R-G	EB	*
	G-Y	1T	EB
Ringer	BK	1T	EB
Key	S-BR	M	ER
	BK-BR	M	SG
Place strap (M1W cord or equivalent)			2T to 4T
			2R to 4R
			3T to 5T
			3R to 5R
Connect 6th key to nonlocking			

\* Insulated and stored

TABLE E

**MODIFICATION OF 565GK TELEPHONE SET  
SINGLE CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Ringer	R	RR	6R
	BK	RT	SG
Key	BR	M	3H
Place strap (M1W cord or equivalent)			2R to 3R
			2T to 3T
			LG(1) to LG(2)
			LG(2) to LG(3)
Convert 4th key to nonlocking			
Block 5th key inoperative			

TABLE F

**MODIFICATION OF 565GK TELEPHONE SET  
DUAL CHANNEL SERVICE**

WIRE OR LEAD		KEY TERMINAL STRIP	
		REMOVE FROM	CONNECT TO
Exclusion switch	W-BL	*	EB
	O-W	EB	*
	O-V	EB	*
Key	BR	M	5
Ringer	R	RR	1R
	BK	RT	EB
Place strap (M1W cord or equivalent)			2R to 4R
			2T to 4T
			3T to 5T
			3R to 5R
Convert 6th key to nonlocking			

\* Insulated and stored



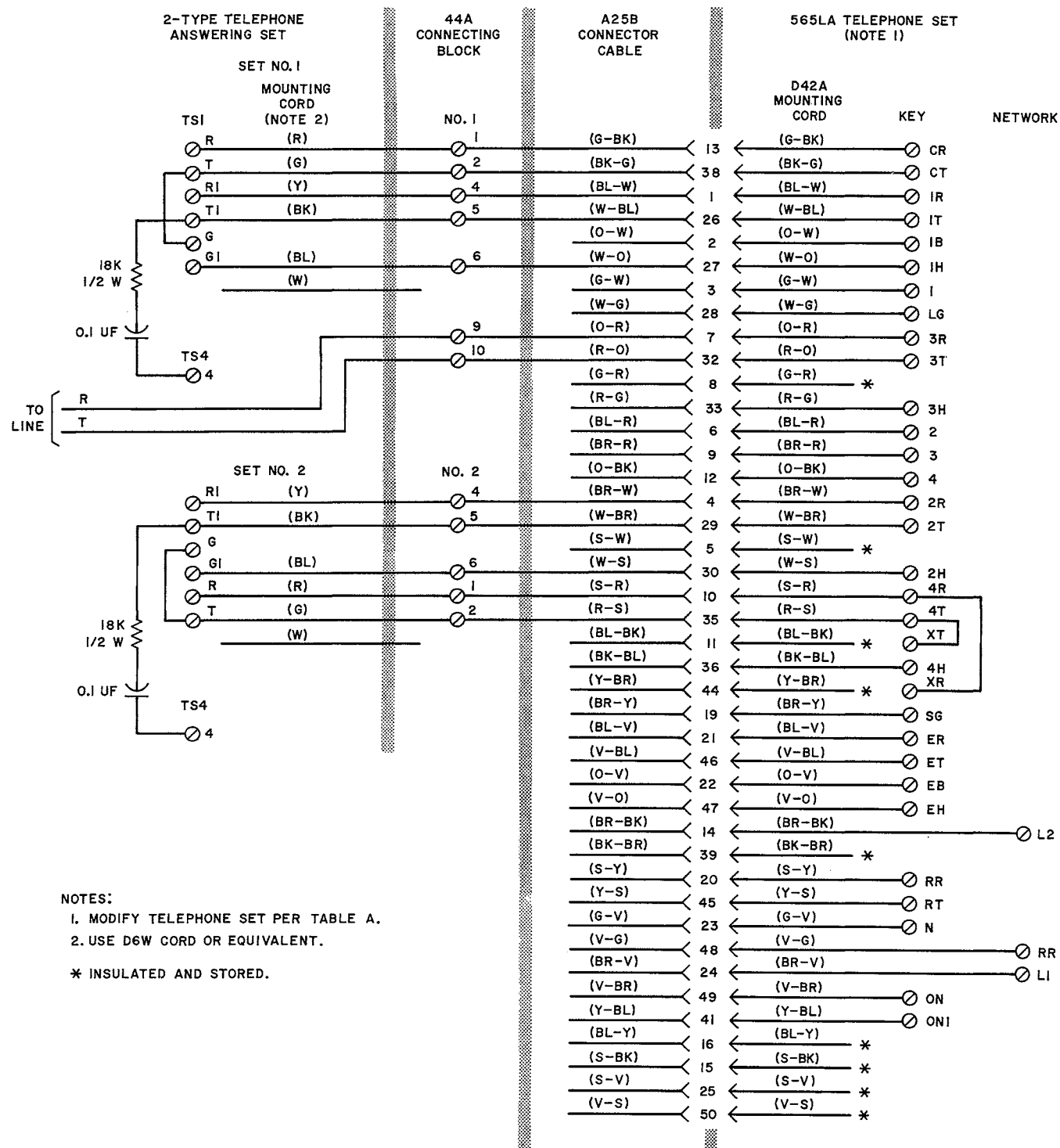


Fig. 7 — Dual Channel Service Using 2-Type Telephone Answering Set (MD) and 565LA Telephone Set (MD)



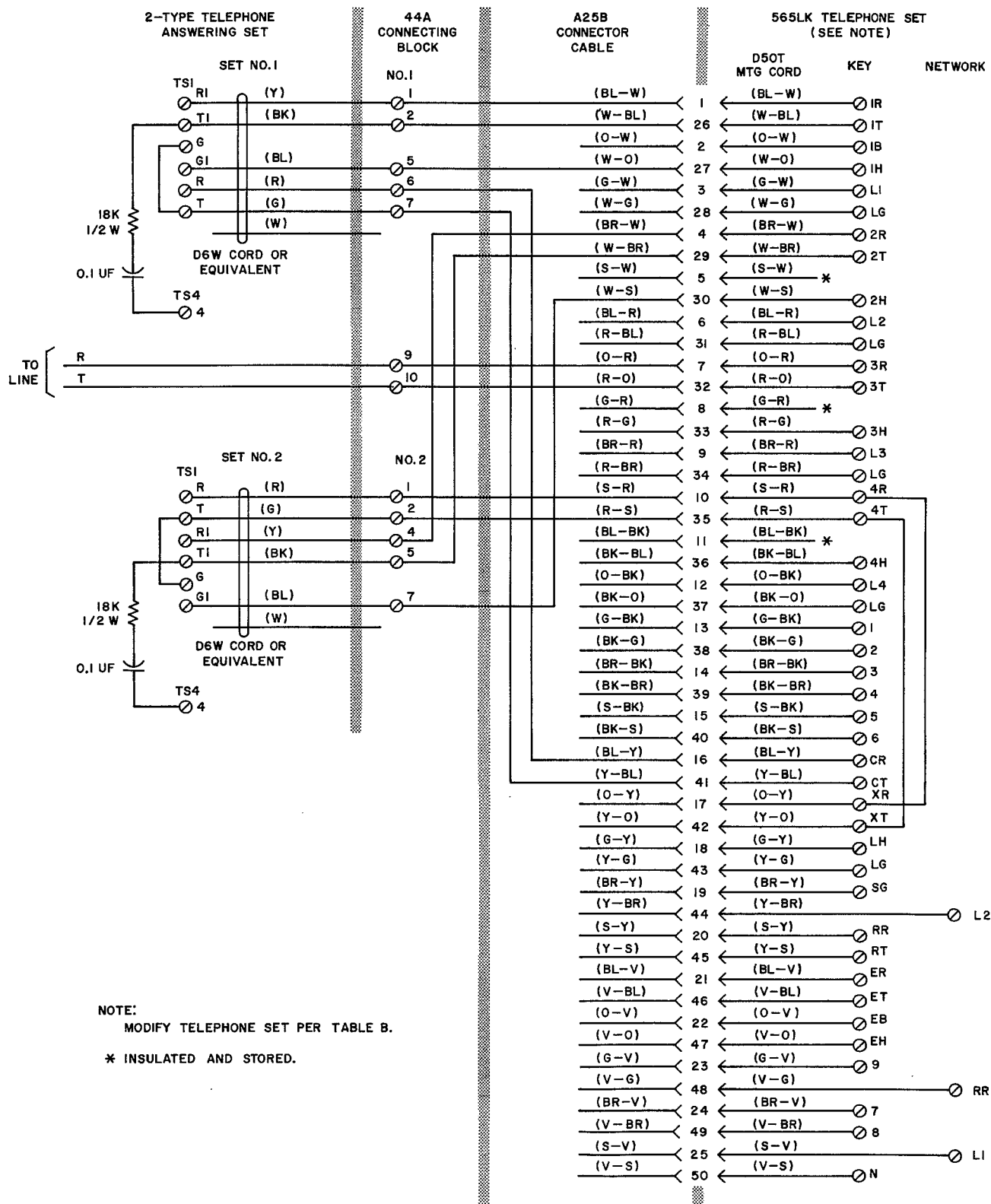


Fig. 8 — Dual Channel Service Using 2-Type Telephone Answering Set and 565LK Telephone Set

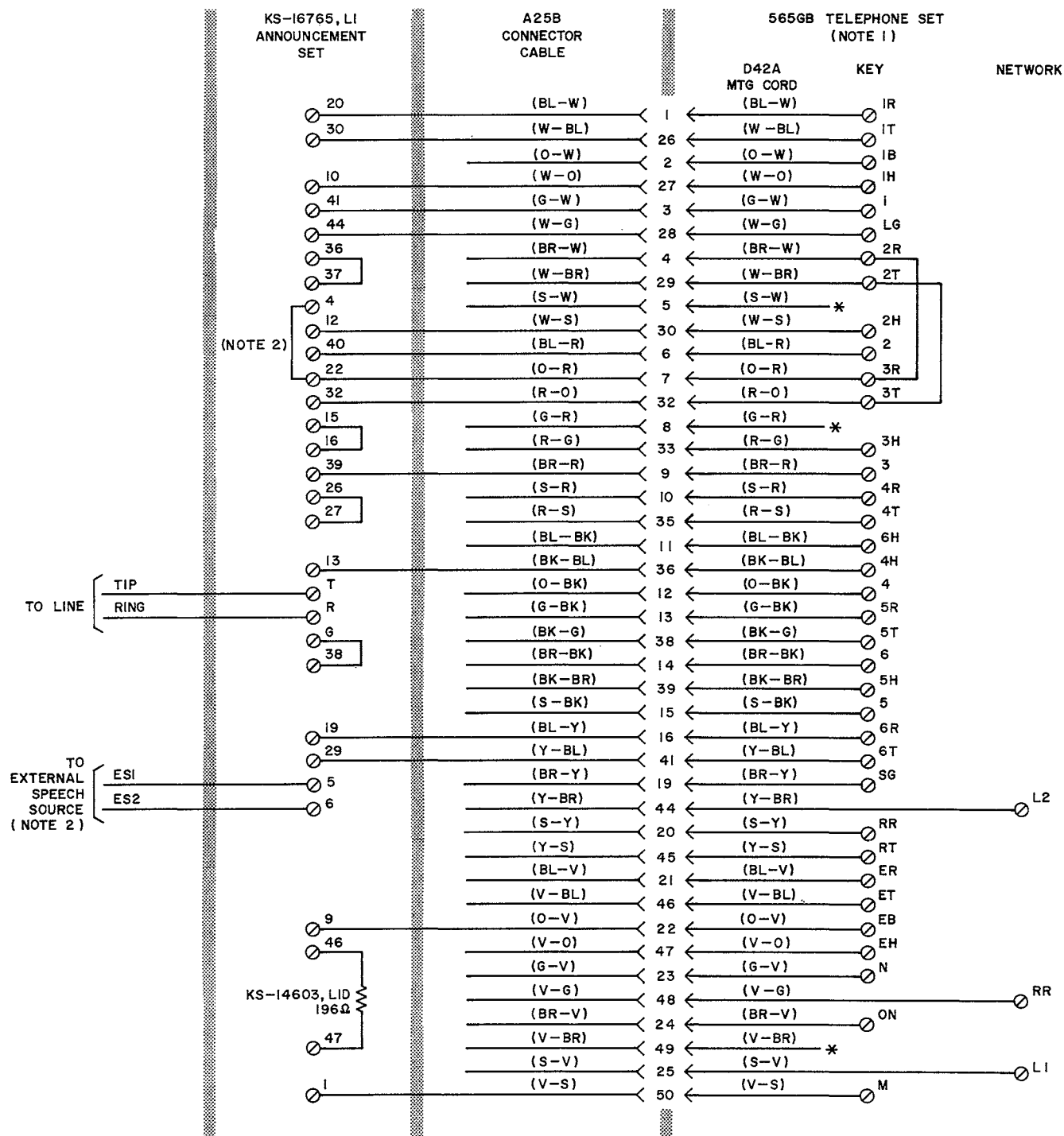
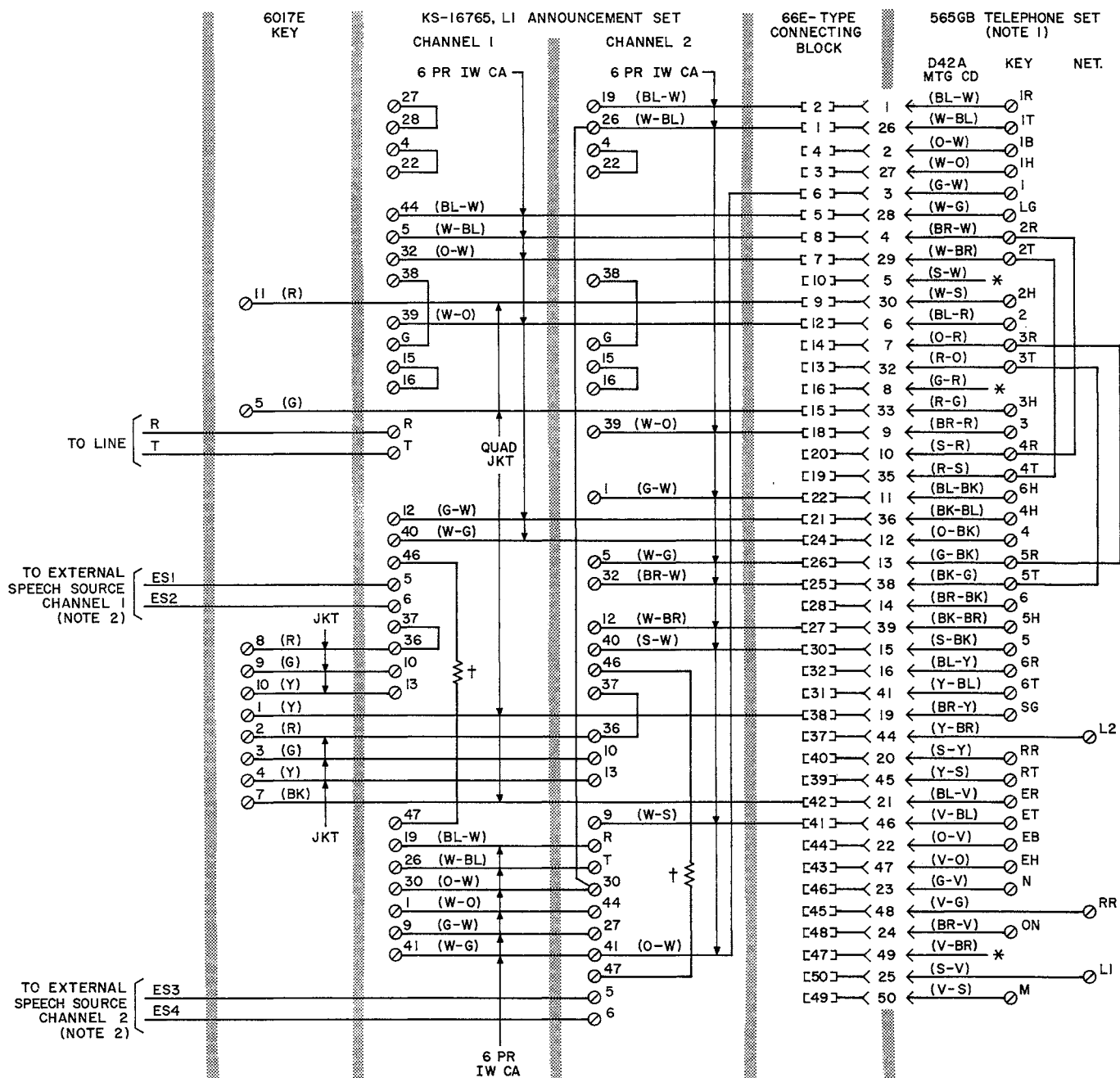


Fig. 9 — Single Channel Service Using KS-16765, L1 Announcement Set and 565GB Telephone Set (MD)



## NOTES:

1. MODIFY 565GB TELEPHONE SET AS SHOWN IN TABLE D.
  2. FURNISH ONLY WHEN EXTERNAL SPEECH SOURCE IS REQUIRED. ENGINEER INSTALLATION LOCALLY.
- \* INSULATED AND STORED.  
† KS-14603, L1D (196 OHM) OR EQUIVALENT, FURNISHED LOCALLY.

Fig. 10 — Dual Channel Service Using KS-16765, L1 Announcement Set and 565GB Telephone Set (MD)

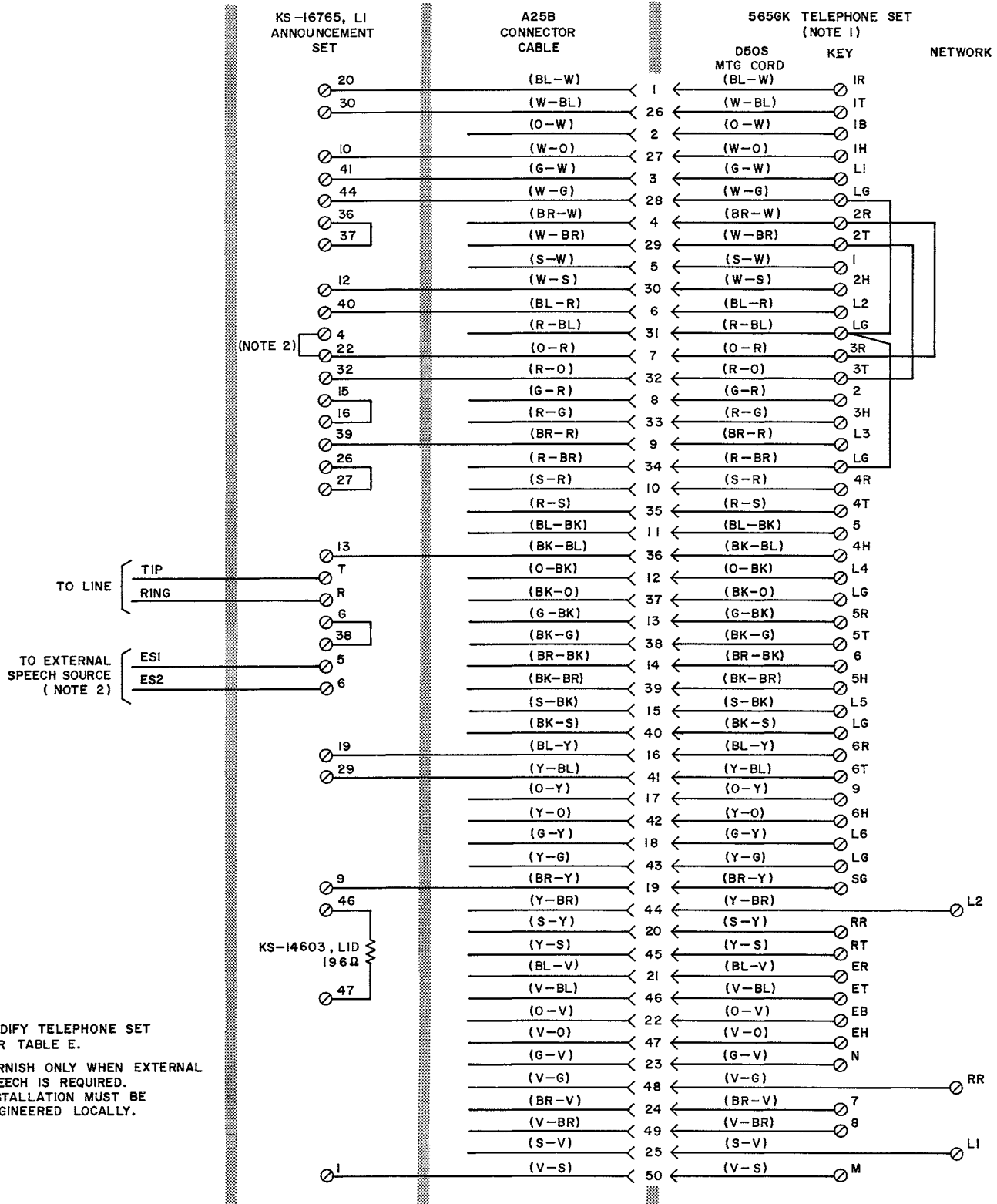
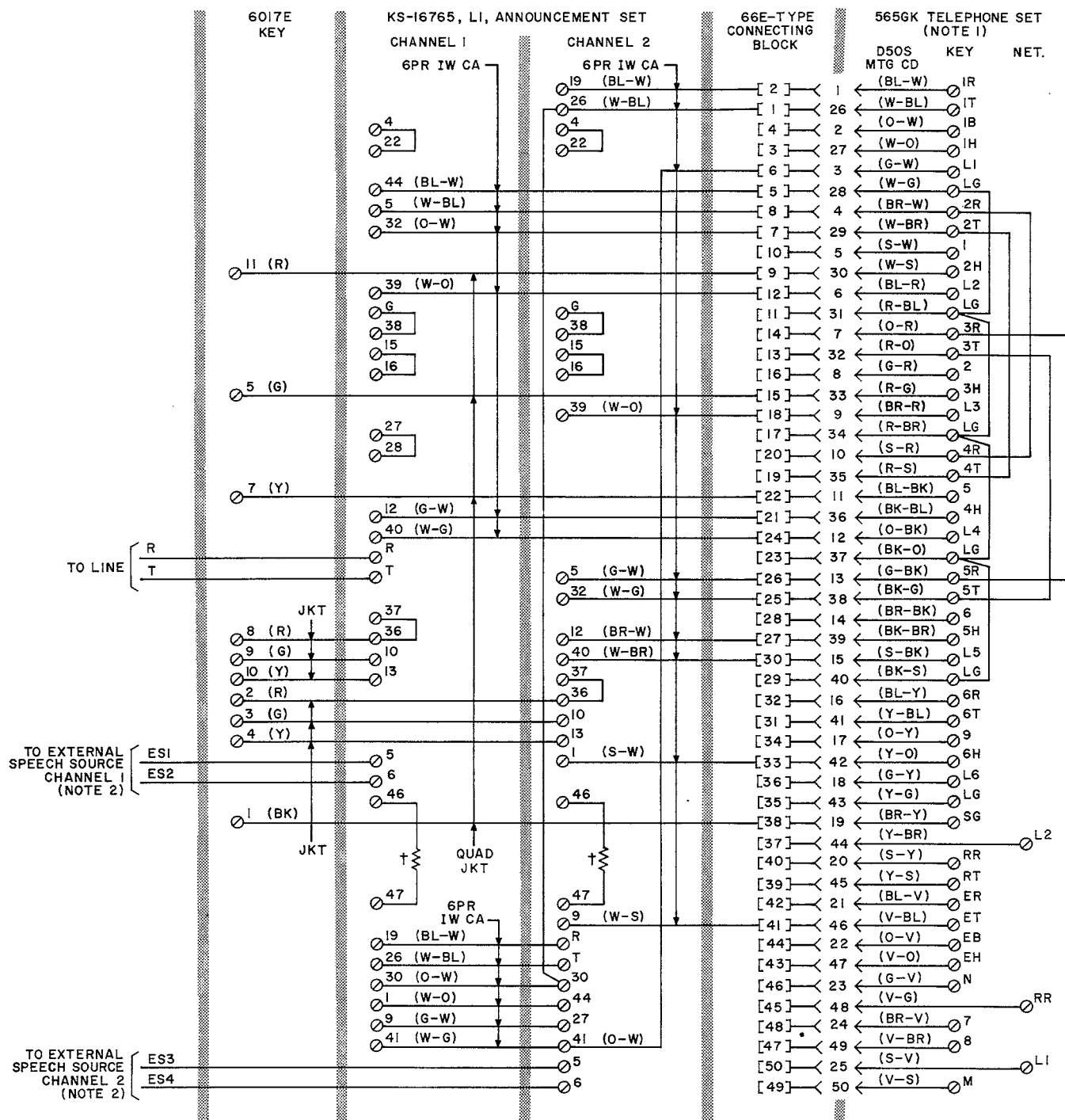


Fig. 11 — Single Channel Service Using KS-16765, L1 Announcement Set and 565GK Telephone Set



## NOTES:

1. MODIFY TELEPHONE SET PER TABLE F.

2. FURNISH ONLY WHEN EXTERNAL SPEECH SUPPLY IS REQUIRED. ENGINEER INSTALLATION LOCALLY.

† KS-14603, LID (196 OHM) OR EQUIVALENT, FURNISHED LOCALLY.

Fig. 12 — Dual Channel Service Using KS-16765, L1 Announcement Set and 565GK Telephone Set