SET - 30 PROGRAMMING MANUAL

SD-192/SD-192MX AND SD-232

TA-S30-2B

Nov. 1, 1984

PROGRAMMING

SET-38 is programmed from the Key pad in conjunction with the feature buttons.

General

The STORE button is used at the end of each procedure or during a procedure to store the programmed information in the instrument's memory.

Pressing the **STORE** button in response to a particular prompt will leave the programmed information in tact. If nothing was programmed, it will remain blank. It is, therefore, used to skip prompts, which require no response during a change procedure dure.

The **BACK button** is used to erase the last character entered. Pressing the button several times will erase several entries.

The HANG UP button is used to terminate a procedure that was entered by **mistake** or requires to be terminated for other reasons. **If** the **HANG UP** button is pressed during a programming procedure which is not finished, the program will default to what was originally programmed (if anything).

The **DISPLAY** button will display information concerning another feature button when that feature button is also pressed after pressing the **DISPLAY** button.

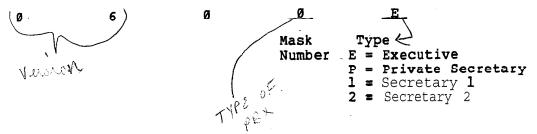
The first item to be programmed on **each** SET-30 will be a mask.

MASK 0 is used for SATURN II or SATURN III. MASK 1 is used for SD-192, SD-232, or SD-192MX. MASK 2 is used for SD-80

If after programming the mask is reprogrammed, the programmed data will be lost (it will revert to standard data base).

To display the mask press the DISPLAY button twice. (This will also indicate what type of set after programming.)

Part of the display will be a number as shown'below:



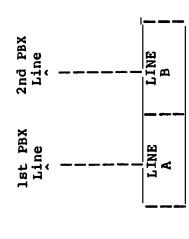
PROGRAMMING

Before programming, fill out the database tables shown on the next several pages or the tables in the regular SET-30 documentation.

Separate sets of tables are provided for Multiplexer (MUX) Groups (one or two secretaries and many executives) and Executive/Private Secretary combinations.

For stand-alone executive phones, use the portion of the Executive/Private Secretary table which is applicable.

EXECUTIVE INSTRUMENT



CROSSCONNECTIONS			EXECUTIVE INSTRUMENT			
PBX LINE ZOO PAIR 2, PINS 3 & 6 PAIR 3,	IPAIR 3,	PBX LINE 300				
TO PAIR 1, PINS 4 & 5 TO LOCAL POWER	 (Not Used)	PAIR 4. PINS 1 & 8	LINE A 1/00	RING ARRANGE 0, 57		EXT:
			LINE B 700	- MENT	. T	EXT:
	-					
	-					
_	_	,				

EXECUTIVE (Stand-Alone)

Press STORE, FEATURE +, 0, # buttons in sequence. (Disregard INVALID display between buttons.).

| | SELECT MASK (0 - 9)

Enter _____and STORE

| SELECT MODEL | SECT = 1, EXEC = 2 Enter 2 and STORE

Press STORE and COM (3rd ivory button in bottom row) in sequence

EXTENSION FOR LINE A:

Enter _____and STORE

| EXTENSION FOR | LINE B:

(Normally not used) Enter STORE

To display the programmed lines , perform the following procedure:

Press DISPLAY and COM (3rd ivory button in bottom row) in sequence

| WHICH LINE ? | A = 1, B = 2

Enter _____and STORE

Extension number of requested line (XNONE if none is assigned)

RING ARRANGEMENT AND DIRECT FORWARD DESTINATIONS (STAND-ALONE EXECUTIV.

Press STORE and DIRECT FORWARD buttons in sequence

RING ARRANGE	Ring arrangement need not be entered. Press STORE If no ring arrangement is programmed, it automatically defaults to arrangement 1.
Section /	Description
1 4	Duplicate ringing. Rings both secretary's and executive's phones.
2	Delayed duplicate ringing. Rings of executive's phone. After two rings, the call also rings at the secretary's phone.
3	Executive answers. Rings only at executive's phone.
4	Full call screening. Rings only at secretary's phone.
5	Overflow call screening. Rings first call at executive's phone. Subsequent calls will ring at the secretary's phone as long as the executive's phone is busy.
	Primary line call screening. Line A designated as primary line, and rings at the secretary's phone. Line B designated as secondary line, and rings at executive's phone when idle. If line B is busy, calls ring at secretary's phone.
7	Secondary line call screening. Same as 6 but A and B are reversed.
FORWARD LINE	Enterand STORE
FORWARD LINE	EnterandSTORE

To display Ring Arrangement and Direct Forward Destination perform the following procedures:

Press DISPLAY and DIRECT FORWARD buttons in sequence

WHICH LINE ? A = 1, B = 2	 	-Enter	and store
	n to which chosen is forwarded		
Ĭ V			
I AFWD to 1400 1 DUPLICATE RING A			

Ring Arrangement used

SPEED DIAL

Press STORE and SPEED DIAL buttons in sequence

WHICH LOCATION

Enter _____but do not press STORE unless you want to skip the next step (just change name, not telephone number).

Speed Dial Indexes
Index being programmed

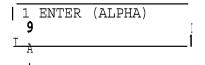
1 ENTER NUMBER

56 digits maximum (only last 12 will be displayed in bottom row as entered

If the instrument is to merely **outdial** digits, enter the telephone number and STORE (preceded by the PBX trunk group access code for the trunk group to be used, unless the instrument is connected directly to CO trunks).

If additional commands are required (see Table page 11), perform the procedure in the dotted lines between the digits where an additional command is required. Several commands may be programmed in succession.

Press SPEED DIAL button



Press tone pad Key which corresponds to the alpha character desired.

Number programmed so far

Note: Each numbered Key except 0 and 1 has three letters (0 Key has two letters and a dash). In order to select one of the three, another entry is necessary.

USE: P=1, R=2, S=3

Press Key pad number which corresponds to the desired letter shown on left, but do not press STORE button.

Display shows the result of pressing the **7(PRS)** key in the previous step

Continue the procedure until the command sequence is finished.

Press the SPEED DIAL button each time a change from numbers to alpha characters or vice versa is required.

When the entire string of numbers and alpha characters is finished, press the STORE button..

1 ENTER NAME

'Press tone pad Key which corresponds to the first letter or number of name

(Key 1 is used for space). If no name is desired, press STORE.

Note: Each numbered Key except 0 and 1 has three letters (0 Key has two letters and a dash). In order to select one of the three, another entry is necessary.

USE: A=1, B=2, C=3 |

Press Key pad number which corresponds to the desired letter shown on left, but do not press STORE button unless name is finished. If a number was selected in the previous step, press Key 4.

Display shows the result of pressing the 2 (ABC) key in the previous step.

| ANSWER PHRASE?

Enter next letter on tone pad

Display shows the result of pressing the 3 key in the previous step to select the third letter of the three choices.

USE: 1=Q, 2=Z, 3=-

Select desired character

Display shows the result of pressing the $8~(\mathrm{QZ-})$ key in the previous step

Continue the procedure until the name is finished (12 characters including spaces maximum), then press the STORE button.

To display SPEED DIAL numbers perform the following procedure: Press DISPLAY and SPEED DIAL buttons in sequence

WHICH LOCATION | 1-6, 70-99

Enter index'to be displayed

Index Name
V V

| 1 SIEMENS | 99948100

Number dialed (trunk group access code and address)

Note: The display will show only the last 12 digits. If more than 12 digits are used, press the BACK button to view the remaining numbers.

To display the first four letters of the names for the first six speed call indexes (1-6), perform the following procedure:

Press SPEED DIAL button

1	1	SIEM	2	3	{{ }}
1	4		5	6	-
1					1

This Table Is Used For Programming SPEED DIAL And Access to PBX FEATURES SUMMARY OF FEATURE SEQUENCE CODES

The following codes as used in feature + .or speed dial sequences

```
On hook (OH not OH)
Ø-9,*,#
              DTMF tones
              Any tone detect
              Busy tone detect
\mathbb{C}
              Control tone detect
D
              Dial tone detect
              Insert the extension number of the active line
E
              Timed
F
                        Hookflash/Connect
              Get an idle line and connect
GΙ
              Get a line -- now active or idle
Get ringing line and connect
Get line 1 or 2
GL
GR
G1 or 2
              Hang-up
Н
              Jam display with blanks
J
              Allows user entry of digits, and proceeds after total digits equal the number of digits in LINE A's extension number. An underline cursor will be displayed.
ĸØ
K1 to 9
              Allows user entry of 1 to 9 digits. A underline cursor
              will be displayed.
              Chain a speed dial location *
Ll to 6
L70 to 99
              Terminate if no tone.
              Terminate if no busy tone.
NB
NC
              Terminate if no control tone.
ND
              Terminate if no dial tone.
              Terminate if selected line not idle.
Terminate if selected line not ringing.
Terminate if selected line not in use
NI
NR
Nu
Р
              Stored name remains until hang-up.
S
U
              Display an underline cursor after name.
W
              Wait for call back ringing.
              Ignore automatic dial tone detection.*
Display "-" for clarity.*
Get line (s) to be forwarded.
Χ
GF
              Outdial forwarding destination(s) as programmed.
R·
```



^{*} Normally used in SPEED DIAL storage only, do not use in feature sequence.

LOUDNESS and TONE of RING

Instrument will ring. Press Volume or Volume button.

To increase loudness, press the VOLUME button.
To decrease loudness, press the VOLUME 'button.
To change the tone, press tone pad buttons 1 through 9 until desired tone is received.

CLOCK AND DATE

Press STORE and DISPLAY buttons in sequence

SELECT MODE AM=1, PM=2, HR=3	Enter and STORE
ENTER HOUR	Enter and STORE (24-hour time if 3 was chosen in last step)
ENTER MINUTES	Enter and STORE
ENTER MONTH	Enter and STORE (Numeral)
ENTER DAY	Enter and STORE
ENTER YEAR	Enter and STORE (2 digits)

PROGRAMMABLE FEATURE BUTTONS

Fourteen PBX features may be programed to be accessed by a single button or a combination of two buttons.

Conference Call	Conference Button
Call Park	Call Park Button.
Pick Up Direct Forward - Activate	Pick Up Button
Direct Forward - Activate	.Direct Forward Button
Direct Forward - Deactivate	Direct Forward Button

Any	nine	FEATURE *	+	$\mathop{\mathtt{button}}_{\pmb{w}}$	+	1 2
PBX	features	w		W	÷	3
1 1021	Icacarcb	w		W	+	4
		w		W	+	5
		w		₩	+	6
		W		W	+	7
		W		W	+	8
		M		W	+	9

Note: Even the CONF, PARK, and PICKUP buttons listed above may be programmed with a different feature, but the label would have to be changed.

The table two pages ahead is used to program a string of commands for ${\tt SET\text{--}30}$ to perform.

Example of a command string for Call Forwarding.

<u>GL</u>	<u>ND</u>	_58	<u>KO</u>	<u> </u>	<u>H</u>
Get a Line	Terminate if no Dial Tone	PBX Access Code for the call Forwarding Feature (Dial it)	Allow user to -dial digits equal to number in user's station number	Pause	Hang UP

In order to save time it is recommended that the table on the next page be used for this purpose. It shows the command string for the most commonly used features.

Copy the command string except for the access code. Use the access code of the particular PBX with which the SET-30 is to be used.

The existing command string can also be displayed first and then copied with the new access code.

FEATURE ACCESS SEQUENCE CODES

FEATURE OR KEY AND FEATURE NAME.	MASK 0 SATURN II/	SEQUENCE CODES	192MX MASK 2 SD80
FWN NO ANS	GLND, KBPH	GLND, KBPH	NOT ASSIGNED
FWB BUSY	GLNDKØPH	GLNDKØPH	GLND_KØPH
I FWC CANCEL	GLND, PH	GLND, PH	GLND, PH
IND SPEED (THRU SWITCH)	GLND_US	NOT ASSIGNED	NOT ASSIGNED
GRP SPEED (THRU SWITCH)	GLND_US	GLND_US	NOT ASSIGNED
HLD PBX (SWITCH HOLD)	nufus	NUF_S	NUFS
TRANSFER- TRF/RECALL	NUFUS	NUFUS	NUFUS
CONFERENCE	NUFKBS	NUFKBS	NUFKBS
CALL PARK	NUFK1S	NUFK1S	NUFK1S
GROUP PICK UP	GLND_S	GLND_S	GLND_S
DIRECT FORWARD (ACTIVATE),	GFNUNDRPOH (O_NOT 0)	GFNUNDRPOH (O NOT Ø)	GFNUNDRPOH (O <u>NOT</u> Ø)
DIRECT FORWARD (DEACTIVATE)	GFNUND, POH (O_NOT Ø)	GFNUND, POH (O_NOT Ø)	GFNUND, POH (O NOT 0)

In order for the end user not to accidentally reprogram the command string, a security Key (code) has to be entered to program the features.

The SET-30 remains in the feature programming mode until timeout or until the HANG UP button is pressed. The security key is:

STORE FEATURE + 0 STATUS

'Disregard INVALID display between buttons.

Enter security key = STORE, FEATURE +, 0, STATUS

Note: The direct forward feature is unique and will be explained separately.

Press STORE and FEATURE button.

If the FEATURE+ button was pressed, a feature number is also selected. If the CONF, PARK, or PICKUP was pressed, skip the next step.

| SELECT PBX | FEATURE (1-9) |

Enter _____ (Do not press STORE)

Feature number (if used)

1 ENTER NUMBER

Request a string of commands (See table on preceding page). If the string of commands starts with numbers, enter the numbers.

If the string of commands starts with alpha characters, press the SPEED DIAL button and the next display shown will appear.

Press the SPEED DIAL button each time the command string changes from numbers to alpha characters or visa versa.

1 ENTER (ALPHA)

Press tone pad key which corresponds to the alpha character desired.

Note: Each number key except 0 and 1 has three letters (0 key has two letters and a dash). In order to select one of the three, another entry is necessary.

USE: G=1, H=2, I=3

Press key pad number which corresponds to the desired letter shown on left, but do not press STORE button.

Display above shows the result of pressing the 4 (GHI) key in the previous step.

1 ENTER (ALPHA)

Press key pad number which corresponds to the next alpha character desired. (If the next **character** is a number, press the SPEED DIAL button first, then enter the number.

Display above shows the result of pressing the 1 key in the previous step.

USE: J-1, **K=2, L=3**

Press key pad number which corresponds to the desired letter shown on left, but do not press STORE button.

Display above shows the result of pressing the **5** (JKL) key in the previous step.

| | 1 ENTER (ALPHA) | **GL**

Display above shows the result of pressing the 3 key in the previous step.

Note: The command up to this point is "Get a Line, now active of idle".

Continue the procedure until the command sequence is finished, then press the STORE button.

| ENTER NAME |

Press tone pad key which corresponds to the first letter of number of the name (key 1 is pressed twice for space)

Note: Each numbered key except **0** and 1 has three letters (0 key has two letters and a dash). In order to select one of the three, another entry is necessary.

If the number 1 was selected to be used a number or a space, the display will be different.

| USE: 1=A, 2=B, 3=C

Display shows the result of pressing the 2 (ABC) key in the previous step

Press key pad <u>number</u> which corresponds to the desired letter shown on left, but <u>do not</u> **press STORE** button unless name is finished.

If a number was selected in the previous step, press key 4.

ENTER NAME C

Display shows the result of pressing the 3 key in the previous step to select the third letter of the three choices.

Enter next letter on tone pad

USE: 1=Q, 2=Z, 3=-

Select desired character

Display shows the result of pressing the 8 (QZ-) key in the previous step

Continue the procedure until the same is finished (12 characters including spaces and dashes maximum), then press the STORE button.

For the DIRECT FORWARD feature, two command strings have to be programmed, one to activate the **feature** and one to deactivate the feature, although the same button is used.

After entering the feature programming security key (code), perform the following steps:

Direct Forward Activate

Press STORE, FEATURE +, and * buttons in sequence.

* ENTER NUMBER

Using the same procedure described on previous **pages**, enter the command string and press STORE.

| | * ENTER NAME Using the same procedure described on previous pages, enter the feature name and press STORE.

To display the feature, press the DISPLAY, FEATURE +, and * buttons in sequence.

<u>Direct Forward Deactivate</u>

Press STORE, FEATURE +, and buttons in sequence.

ENTER NUMBER

Using the same procedure described above, enter the command string and press STORE.

ENTER NAME

Using the same procedure described above, enter the feature name and press STORE. .

To display the feature, press the DISPLAY, FEATURE +, and \ddagger buttons in sequence.

Note: When the FEATURE + button is pressed, the first three letters of the feature name are displayed for features 1 through 6. In order for the user to recognize the feature, the first three letters should clearly show the entire feature. 'When using the feature, the entire name is displayed.

Examples of Feature names:

FWN - NO ANSWER

FWB - BUSY

Fwc - CANCEL

UN1 - ZONE ONE

To display the feature, perform the following procedure:

Press **DISPLAY** and feature button

If the FEATURE + button was pressed, a feature number is also selected. If one of the other buttons was pressed, skip the next step.

 SELECT FEATURE		_ -	Enter _	
Feature Number ! ! V	Feature Name V			
4 UNA - GLND*1	ZONE ONE	1		
 COMMAND	STRING	_		

SET-30 PROGRAMMING

This exercise contains four different SET-30 configurations.

Complete the database tables in the back of this booklet for each of the configurations.

The database tables also contain some wiring information for easy identification of each station.

After completion of the database tables , program each of the configurations.

RINGING ARRANGEMENT

Selection	Description
1	Duplicate ringing. Rings both secretary's and executive's phones.
2	Delayed duplicate ringing. Rings at executive's phone. After two rings, the call also rings at the secretary's phone.
3	Executive answers. Rings only at executive's phone.
4	Full call screening. Rings only at secretary's phone.
5	Overflow call screening. Rings first call at executive's phone. Subsequent calls will ring at the secretary's phone as long as the executive's phone is busy.
6	Primary line call screening. Line A designate as primary line, and rings at the secretary's phone. Line B designated as secondary line, and rings at executive's phone when idle. If line B is busy, calls ring at secretary's phone.
7	Secondary line call screening. Same as 6, but A and B are reversed.

EXECUTIVE SECRETARY COMBINATION (THE SAME TWO PBX LINES ON BOTH INSTRUMENTS)

Exercise #1

The following Executive/Private Secretary combination will be used.

Extension 1300 will appear on Line A of both instruments.

is Siemens. Answer Phrase

Extension will ring at Secretary. Direct Forward Destination is Ext. 200.

Extension 1301 will appear on Line B of both instruments. Answer Phrase is JANE DOE.

211. Extension will ring at Secretary. Direct Forward Destination is Ext. The executive's ring arrangement is full screening of calls.

EXECUTIVE INSTRUMENT	Z.	LINE INTER-
EXECUTIVE	AND YBY LINE	TINE
SECRETARY INSTRUMENT	TSI TEM LINE	LINE INTER-
SECRET		LINE

CROSSCONNECTIONS			PROGRAMMING					
PBX LINE /// PAIR 2, PINS 3 & 6 PAIR 3, PINS 2 & 7 PBX LINE ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	PAIR 3, PINS 2 6 7 DF SECRETARY SET	PBX LINE ZZZ	SECRETARY INSTRUMENT	FRUMENT				
PAIR 1, PINS 4 6 5 TO LOCAL POWER OF SECRETARY SET	TO TO INSTANT SET 1 BY SECRETARY SET EXT	PAIR 4, PINS 1 4 8	EXT 1			I RING HERE		
AND ALSO TO NOTE: CONNECTING OF	OF EXECUTIVE SET	AND ALSO TO	77	ANSWER	DIR TNK	2= NO		
	4 MINIS.	OF EXECUTIVE SET*	222		10 BLO	3 - DELAI		
CROSSCONNECTING	· — -		LINE A // }				DIRECT	T EXT: 4
INSTRUMENTS IS			LINE B 777	 .			I TO	EXT: 4/9
SUFFICIENT			EXECUTIVE INSTRUMENT	RUMENT				
			T A STIT			RING) MATC	T . EXT:
			14.0	-		ARRANGE-	FORWAR	
			LINE B Dan	<u> </u>		MENT	- 2	EXT

222

• IF CONNECTED AS SHOWN, THE SAME LINES WILL APPEAR ON THE SAME LINE BUTTONS ON BOTH INSTRUMENTS.

PAIRS 1 4 MAY BE REVERSED TO HAVE DIFFERENT LINES ON THE FIRST LINE BUTTON OF EACH OF THE TWO INSTRUMENTS AND (IF USED) AGAIN ON THE SECOND LINE EDITION OF EACH OF THE TWO INSTRUMENTS.

(ONE PBX LINE ON BOTH INSTRUMENTS, ANOTHER PBX LINE ON EXECUTIVE INSTRUMENT ONLY) EXECUTIVE SECRETARY COMBINATION

Exercise #2

The following Executive/Private Secretary combination will be used.

Extension 1300 will appear on Line A of both instruments. Answer Phrase is Siemens.

Extension will ring at Secretary.

Direct Forward Destination is Ext. 200.

Extension 1301 will appear on Line B of the executive's instrument only. (Direct Forward Destination is Ext. 211.

The executive's ring arrangement is duplicate ringing.

EXECUTIVE INSTRUMENT		INTER-
IVE I	Y LINE	LINE
XECUT	ZND PBX	LINE
INSTRUHENT	TINE	LINE INTER- B COM

CROSSCONNECTIONS		PROGRAMMING				
PBX LINE PAIR 2, PINS 3 . 6 PAIR 3, PINS 2 L 71PBX I	PAIR 3, PINS 2 L 71PBX LINE	I SECRETARY INSTR	SECRETARY INSTRUMENT			
PAIR 1, PINS 4 25 TO LOCAL POWER	TO TO PAIR 4, PINS 1 L8			RING HERE		
OF SECRETARY SET PAIR PAIR 3, PRIS 2 4 A AND ALSO TO INOTE: CONNECTING IOF EXECUTIVE SET	PAIR ->, "TANKS Z 4 / JOK SECKETARY SET I EXT I F EXECUTIVE SET AND ALSO TO	I EXT I	ANSWER	J= YES		
PAIR I, PINS 4 25 ONE INSTRUMENT TO	PAIR 4, PINS 1 L8	EXT 2I T - I	PHRASE NA	3- DELAY NA		
OF EXECUTIVE SET* LOCAL POWER AND	OF EXECUTIVE SET*				H	1 1 1
ICROSSCONNECTING	_	LINE A			DIRECT	EXT:
IPAIRS 2 ON BOTH					FORWARD	!
I INSTRUMENTS IS	7	LINE B			10	
SUFFICIENT					1	
		EXECUTIVE INSTRUMENT	CHENT			
				_		1 1 1 1 1 1 1 1 1
		LINE A	-	RING	DIRECT	EXT: NA
٠			_	ARRANGE- 1	FORWARD	
		LINE B	_	MENT	10	EXT:

IF CONNECTED AS SHOWN, THE SAME LINES WILL APPEAR ON THE SAME LINE BUTTONS ON BOTH INSTRUMENTS. TO HAVE DIFFERENT LINES ON THE FIRST LINE BUTTON OF EACH OF THE TWO INSTRUMENTS AND (IF USED) AGAIN ON THE SECOND LINE BUTTON OF EACH OF THE TWO INSTRUMENTS.

3

∺22−

executive secretary combination (one pbx line ON ROTH instruments, SECOND PBX Line TO secretary only.

THIRD PBX LINE TO EXECUTIVE ONLY

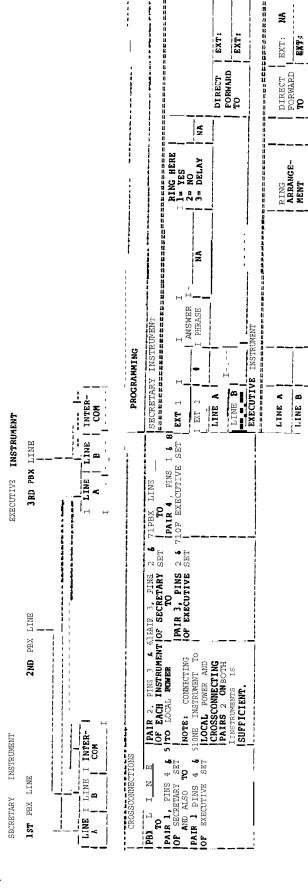
Exercise #3

The following Executive/Private Secretary combination will be used.

Extension 1300 will appear on Line A of both instruments. Answer Phrase is Siemens. Extension Will ring at Secretary. Direct Forward Destination is Ext. 200.

only. the Secretary's instrument Extension 1301 will appear on Line B of Direct Forward Destination is Ext. 211, Extension 1302 will appear on Line B of the executive's instrument only. Direct Forward Destination is Ext 1229.

The executive's ring arrangement is delayed duplicate ringing



SECR	ድሞል	DV
ついてい		<u> </u>

Press STORE, FEATURE +, 0 display between buttons.)	, # buttons in sequence. (Disregard INVALID
SELECT MASK (Ø-9)	Enter and STORE
SELECT MODEL SECT-1, EXEC-2	Enter 1 and STORE
SECRETARY 1, 2 OR I PRIVATE=3	Enter 3 and STORE
Press STORE and COM (3rd	ivory button in bottom row) in sequence
WIRED FOR INTERCOM? YES=1, NO=2	Enter and STORE
EXTENSION FOR LINE X1:	Enter and STORE (Executive's first extension number)
EXTENSION FOR LINE X2:	Enter and STORE (Executive's second extension number) Note : Enter # and STORE if only one extension is used or if the executive's second extension is private.
EXTENSION FOR LINE A:	Enter and STORE (Secretary's first extension number)
EXTENSION FOR LINE B:	Enter and STORE (Secretary's secondary extension number

PRIVATE SECRETARY (continued)

To display the programmed lines, perform the following procedure:

Press DISPLAY and COM (3rd ivory **button** in bottom row) in sequence

I WHICH LINE ?
A = 1, B = 2

INTERCOM wired
YES or NO Line requested (A or B)

V V

COM = YES LINE A
I X1400

Extension number of requested line (XNONE if none is assigned)

HEADSET IN PLACE OF HANDSET

Press STORE and HANGUP buttons in sequence

PRIVATE SECRETARY (continued)

ANSWER PHRASE (Programmed at Secretary Stations only)

Press the STORE and STATUS buttons in sequence

EXECUTIVE'S LINE NUMBER
(1st display shows highest)

V

! ! 2 BACK, UP, DN? I x01

.| Last two digits of EXECUTIVE'S LINE NUMBER

I | ANSWER PHRASE? |

If the extension does not ring here, enter BACK, and next extension will be displayed.

If the extension rings here, press the VOLUME button.

Note: Pressing the VOLUME button removes the extension from this secretary station

Press tone pad key which corresponds to the first letter or number of the answer phrase (key 1 is pressed twice for space).

Note: Each numbered key except 0 and 1 has three letters (0 key has two letters and a dash). In order to select one of the three, another entry is necessary. If the number 1 was selected to be used as a number or a space, the display will be different.

USE: 1=A, 2=B, 3-C

Display shows the result of pressing the 2 (ABC) key in the previous step

Display shows the result of pressing the 3 key in the previous step to select the third letter of the three choices.

Press key pad **number** which corresponds to the desired letter shown on left, but do not press STORE button unless phrase is finished.

If a number was selected in the **pre-**vious step, press key 4.

Enter next letter on tone pad

l | USE: 1=Q, 2=Z, 3=-

Select desired character

PRIVATE SECRETARY u e d)

Display shows the result of pressing the 8 (QZ-) key in the previous step.

Continue the procedure until the phrase is finished (12 characters including spaces maximum), then press the STORE button. $\ \ \,$

| | RING HERE? | YES-1, NO=2, DELAY=3

Enter and STORE

Note: Delayed is used if the call goes to a conventional instrument (2500) first and rings the secretary if not answered within a given time,.

| | 1 BACK, UP, DN? | x00

Next lower executive extension is displayed. Repeat the procedure above for this extension.

DIRECTED FORWARD

V

| AFWD TO 1400

Press STORE and DIRECT FORWARD buttons in sequence

FORWARD LINE A TO	Enter and	STORE
FORWARD LINE B I TO	I Enter and i	STORE
To display DIRECT FORWARD, perfo	5 2	
WHICH LINE? A=1, B=2	Tenter and	STORE
Line being displayed		

| | Station to which chosen line is forwarded

EXECUTIVE (with SECRETARY)

! SELECT MODEL ! SECT-1, EXEC=2

Press STORE, FEATURE+, 0, # buttons in sequence. (Disregard INVALID
display between buttons.)

| SELECT MASK (0-9) | Enter' ____ and STORE

Enter 2 and STORE

Press STORE and COM (3rd ivory button in bottom row) in sequence

EXTENSION FOR LINE A:

Enter _____ and STORE

| | EXTENSION FOR | LINE B:

Enter _____ and STORE

Note: If an extension is a private line, enter # for extension number.

To display the programmed lines , perform the following procedure:

Press DISPLAY and COM (3rd ivory button in bottom row) in sequence

| | WHICH LINE ? | A = 1, B = 2

Enter _____ and STORE

Not applicable at EXECUTIVE Station Line requested (A or B) V

Extension number of requested line (XNONE if none is assigned)

EXECUTIVE (with **SECRETARY)** (continued)

RING ARRANGEMENT AND DIRECT FORWARD DESTINATIONS

Unplug the line cord of the Secretary set associated with this station and plug it back in.

Press STORE and DIRECT FORWARD buttons in sequence

RING ARRANGEMENT

Select number from table below, enter number and STORE.

If just STORE is pressed, it defaults to arrangement 1.

Selection Description

- Duplicate ringing. Rings both secretary's and executive's phones.
- Delayed duplicate ringing. Rings at executive's phone.

 After two rings, the call also rings at the secretary's phone.
- **3** Executive answers. Rings only at executive's phone.
- 4 Full call screening. Rings only at secretary's phone.
- Overflow call screening. Rings first call at executive's phone. Subsequent calls will ring at the secretary's phone as long as the executive's phone is busy.
- Primary line call screening. Line A designate as primary line, and rings at the secretary's phone. Line B designated as secondary line, and rings at executive's phone when idle. If line B is busy, calls ring at secretary's phone.
- Secondary line call screening. Same as **6**, but A and B are reversed.

FORWARD TO	LINE	А	
 FORWARD TO	LINE	В	

(Used only for private EXECUTIVE lines which are not answered by secretary. For lines answered by secretary, enter STORE only.)

Enter _____ and STORE

Enter _____ and STORE

To display Ring Arrangement and Direct Forward Destination perform the following procedures:

. Press DISPLAY and DIRECT FORWARD buttons in sequence

EXECUTIVE (with SECRETARY) (continued)

_	-					
	WHICH LINE A-1, B-2	?		Enter	ar	nd STORE
			which chosen s forwarded	1		
	i AEWD TO 140 1 DUPLICATE					
	 Ring Arranger	ment used				

EXERCISE #4

The following **PBX** stations will be used in a Multiplexer 2 configuration (two secretaries and several executives).

Station extension numbers 1320 through 1326 (already programmed in the PBX data base as tone phones).

The station numbers will be distributed as shown below:

```
Ext 1320 to Secretary 1

Ext 1321 to Secretary 2

Ext 1322 to Executive 1, Line A

Ext 1323 to Executive 1, Line B

Ext 1324 to Executive 2, Line A

Ext 1325 to Executive 2, Line B

Ext 1326 to single-line (2500 type) phone
```

The Answer Phrases and secretary destinations (ring) will be as shown below:

EXTENSION	ANSWER PHRASE	RING AT SECRETARY #
	SIEMENS	_
1322	TRAINING	· <u>1</u>
	JANE	
1325	JOHN	2

The Direct Forward destinations will be as shown below:

EXTENSION

DIRECT FORWARD DESTINATION

1320	ALL	LINES	TO	1220
1321				
1322				
1323				
1324				
1325				
1326				

All stations will use handsets.

Ring Arrangement for the Executive Stations will be "Full Call Screening".

The following Speed Dial numbers will be programmed:

INDEX	<u>DESTINATION</u>
Ø	Telephone Network Address: 994-7541 Using trunk group 8, access code 81
1	Internal extension number 1220

The following features will be programed:

Direct Forward Activate, access code 48
Direct Forward Deactivate, access code 46
Call Forward No Answer, Key pad button 1, access code 42
Feature name: FWN NO ANS
Call Forward Busy, Key pad button 2, access code 41
Feature name: FWB BUSY
Call Forward Cancel, Key pad button 3, access code 46
Feature name: FWC CANCEL
Call Dark DARK button access code 72

Call Park, PARK button, access code 72

Feature name: CALL PARK

MIX GROUP NUMBER

	PAIR NO.	[2	3	4	ر -	9	7	8	-	7	e e	4	2	9	7	8
PBX CONNECTIONS TO MULTIPLEXER	MUX CARD NO.				1	1	rI	1	-	2	2	2	2	2	2	2	2
PBX CONNECT	NB4																

PAIR NO.	-	es -	4	2	9	7	œ	-	7	3	4	 23	9	7 I	ω
MUX CARD NO.	w w	8	æ	æ	m	es.	æ	4	₽.	† †	7	∀ '	7	4	7
 X84		 						_							

MUX GROUP NUMBER_____SECRETARY 1

HOLTITELEKER FORT CONNECTIONS	MASK NO.	INTERCOM YES/NO	EXTENSION INUMBERS	ANGWER	RING HERE YES/NO	FORWARD	HEADSET OR HANDSET
Pair 1 (pins 4 & 5)							
f'amy MUX card in the roup.							
Pair 2 (pins 3 & 6)							
MOX							
Cate							
To to							
ir 3 (pins 2 & 7) of							. **
any MUX card in the	-	 -					
group.							
	10 Marina 4400M						
ir 4 (pins 1 & 8)							
of SET-30 are not connected.	شه جنینه ک		- ·	_	_		
	- 						
-	_						

MUK GROUP NUMBER_

SECRETARY 1

_(continued)

MULTIPLEXER PORT CONNECTIONS	MASK NO.	INTERCOM YES/NO	EXTENSION NUMBERS	ANSWER	RING HERE XES/NO	FORWARD TO	HEADSET OR OR HANDSET
Pair 1 (pins 4 & 5) of SET-30 to pair 9 of any MUX card in the group.							
Pair 2 (pins 3 & 6) of SET-30 to MUX Card Pair							·.
Pair 3 (pins 2 & 7) of SET-30 to pair 11 of lany MIX card in the group.							
Pair 4 (pins 1 & 8) of SEI-30 are not connected.							

MUX GROUP NUMBER

SECRETARY 2

MULTIPLEXER PORT CONNECTIONS	MASK NO.	INTERCOM YES/NO	EXTENSION	ANSWER	RING HERE	FORWARD	HEADSET
						?	HANDSET
Pair 1 (pins 4 & 5)							
of SET-38 to pair 18							
of any MUX card in the							
-diore							
				•.			
-	_						-
Pair 2 (pins 3 & 6)							
or sel-30 to							,
MIX Card							·.
Pair							
				_			
rair 3 (pins 2 & 1) of							
SEL-30 to pair II of			-				
any mux card in the							
dronb.		-					
						,	
\$ 0 P							
Pair 4 (pins 1 & 8)							
of SEL-30 are not							
connected.		•					
		_					

MUXGROUP NUMBER

SECRETARY 2

___(continued)

MULTTPLEXER PORT CONNECTIONS	MASIK NO.	INTERCOM YES/NO	NUMBERS	ANSWER	RING HERE YES/NO	FORWARD TO	HEADSET OR HANDSET
Fair 1 (pins 4 & 5)							
of SEL-36 to pair 19 of any MUX card in the group.				•			-
•							
MIX Card							
Pair					. 2	•	
Pair 3 (pins 2 & 7) of	٠.						· —
SET-30 to pair 11 of any MIX card in the		-					
group.							
Pair 4 (nins 1 & 8)							•
of SET-30 are not		_					

MUX GROUP NUMBER EXECUTIVE STATIONS

EXTENSION AT MADERS	MULTIPLEXER CONNECTIONS
INTERIOR IN INTERIOR	PAIR1 PAIR2 PAIR3 PAIR4 I If Single-line I RING I FORWARD TO PINS 4 & 5 PINS 3 & 6 PINS 2 & 7 PINS 1 & 8 Phone Use This ARRANGE- (Private Lines Of SET-30 Of SET-30 Of SET-30 Of SET-30 Only Only
LINE A	ND CARD CARD CARD CARD
LINE B	PAIR PAIR PAIR PAIR -==
LINE A	CARD CARD CARD CARD CARD
LINE B	I PAIR PAIR PAIR PAIR PAIR
/LINE A	
LINE B	T PAIR PAIR PAIR PAIR PAIR
LINE A	
LINE B	I PAIR PAIR I PAIR PAIR PAIR
LINE A	CARD CARD CARD CARD - 1 - 1
LINE B	PAIR PAIR PAIR PAIR
LINE A	CARD CARD CARD
LINE B	PAIR PAIR PAIR PAIR
LINE A	CARD CARD
LINE B	PAIR PAIR PAIR PAIR PAIR PAIR
LINE A	=
LINE B	
LINE A	
LINE B	

SECRETARY 1 (First SECRETARY of two or only SECRETARY with several EXECUTIV

Note: Secretary 1 has T & R connected to pair 9 of the multiplexer.

Press STORE, FEATURE +, 0, \$ buttons in sequence. (Disregard INVALID display between buttons.)

SELECT MASK (0-9)

Enter _____and STORE

SELECT MODEL
SECT = 1, EXEC =2

Enter 1 and STORE

SECRETARY 1,2 or PRIVATE = 3

Enter 1 and STORE

Press STORE and COM (5th ivory button in bottom row) in sequence

WIRED FOR INTERCOM?
YES = 1, NO = 2

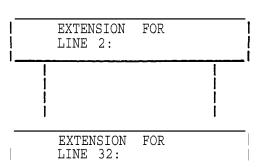
Enter _____and STORE

If answer is yes (1) secretary has 4 line buttons and 1 intercom button. If answer is no (2) secretary has 5 line buttons and no intercom button.

AUTO ANSWER COM? YES = 1, NO =2 Enter _____and STORE

EXTENSION FOR'
LINE 1:

Enter _____and STORE



Enter _____and STORE

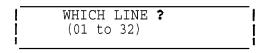
Enter _____and STORE

SECRETARY 1 (continued)

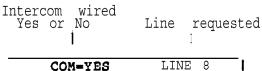
If fewer than 32 lines \mbox{are} programmed, press HANG UP button after last line has been programmed and stored.

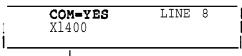
To display and programmed lines , perform the following procedure:

Press DISPLAY and COM (5th ivory button in bottom row) in sequence



Enter _____and STORE





Extension number of requested line (XNONE if none is assigned)

HEADSET IN PLACE OF HANDSET

Press STORE and HANGUP buttons in sequence

SELECT HANDSET = 1 OR HEADSET = 2

Enterand STORE

SECRETARY 1 (continued)

ANSWER PHRASE (Programmed at Secretary Stations only)

Press the STORE and STATUS buttons in sequence

EXECUTIVE'S LINE
NUMBER (1st display
shows highest)

1 2 BACK, UP, DN? 1 X01

Last two digits of EXECUTIVE'S LINE NUMBER

ANSWER PHRASE?

If the extension does not ring here, enter BACK, and next extension will be displayed.

If the extension rings here, press the VOLUME button.

Note: Pressing the VOLUME button removes the extension from this secretary station.

Press tone pad key which corresponds to the first letter or number of the answer phrase (Key 1 is pressed twice for space).

Note: Each numbered. key except **0** and 1 has three letters (0 key has two letters and a dash). In order to select one of the three, another entry is necessary. If the number 1 was selected to be used as **a**number or a space, the display will be different.

USE: 1=A, 2=B, 3=C

Display shows the result of pressing the 2 (ABC) key in the previous step.

ANSWER PHRASE?

Press key pad number which corresponds to the desired letter shown on left, but do not press STORE button unless phrase is finished. If a number was selected in the previous step, press key 4.

Enter next letter on tone pad

Display shows the result of pressing the 3 key in the previous step to select the third letter of the three choices.

SECRETARY 1 (continued)

USE: 1=Q, 2=Z, 3= -

Select desired character

Display shows the result of pressing the 8 (QZ-) key in the previous step $\,$

Continue the procedure until the phrase is finished (12 characters including spaces maximum), then press the STORE button.

RING HERE? YES-1 Enter and STORE NO=2, DELAYED=3

Note: Delayed is used if the call goes to a conventional instrument (2500) first and rings the secretary if not answered within a given time.

1 BACK, UP, DN?

Next lower executive extension is displayed. Repeat the procedure above for this extension.

SECRETARY 1 (continued)

DIRECT FORWARD

Press STORE and DIRECT FORWARD buttons in sequence

FORWARD ALL LINES TO	If all lines. are' to be forwarded to the same station,
	ENTERand STORE
	If lines are forwarded to different destinations, Enter STORE
Display when just STORE was entered in last step ! V	
FORWARD LINE 1 TO	ENTERand STORE
FORWARD LINE 2	ENTERand STORE
Repeat with every line to be forwarded	1.
Enter STORE to skip lines.	
To display DIRECT FORWARD, perform the	e following procedure
Press DISPLAY and DIRECT FORWARD butto	
WHICH LINE ?	ENTERand STORE
Line being displayed	
N.	
SFWD to 1400	
 Station to which ch	osen line is forwarded

SECRETARY 2 (Second SECRETARY of two with several EXECUTIVES)

Note: Secretary 2 has TER connected to pair 10 of the multiplexer.

In order to program Secretary 2, Secretary 1 line extension assignments have to be programmed first.

Also, the intercom and power connections to the multiplexer at both secretary stations have to be complete.

Press STORE, FEATURE +, 0, \$ buttons in sequence. (Disregard INVALID display between buttons.)

SELECT MASK (0 - 9)	Enter_		and	STORE
SELECT MODEL SECT = 1.EXEC = 2.	Enter	1	and	STORE
SECRETARY 1, 2 or PRIVATE = 3	Enter	2	and	STORE

Unplug Secretary 1, instrument' and plug it back in. This transfers programmed extension numbers from Secretary 1 data base to Secretary 2 data bases. To assure proper transfer, display at least one extension at Secretary 2.

Press DISPLAY and COM (5th ivory button in bottom row) in sequence

Intercom wired
Yes or No

I COM = YES

X1400

Extension number of requested line (XNONE if none is assigned)

HEADSET IN PLACE OF HANDSET

Press STORE and HANGUP buttons in sequence

SELECT HANDSET = 1 OR HEADSET = 2 ENTER _____and STORE

Enter _____and STORE

ANSWER PHRASE (Programmed at Secretary Stations only)

Press the STORE and STATUS buttons in sequence

If the extension does not ring here, enter BACK, and next extension will be displayed.

If the extension rings here, press the VOLUME button.

Note: Pressing the VOLUME button removes the extension from this secretary station.

Press tone pad key which corresponds to the first letter or number of the answer phrase (key 1 is pressed twice for space).

Note: Each numbered key except 0 and 1 has three letters (0 key has two letters and a dash). In order to select one of the three, another entry is necessary. If the number 1 was selected to be used as a number or a **space**, the display will be different.

USE: 1=A, 2=B, 3=C

Display shows the result of pressing the 2 (ABC) key in the previous step

Press key pad number which corresponds to the desired letter shown on left, but do not press STORE button unless phrase is finished. If a number was selected in the previous step, press Key 4.

I ANSWER PHRASE? I C Enter next letter on tone pad

11.4

Display shows the result of pressing the 3 key in the previous step to select the third letter of the three choices.

i USE: 1=Q, 2=Z, 3= ~

Select desired character

Display shows the result of pressing the 8 (QZ-) key in the previous step

Continue the procedure until the phrase is finished (12 characters including spaces maximum), then press the STORE button.

RING HERE? YES-1 NO=2, DELAYED-3

Enter _____and STORE

Note: Delayed is used if the call goes to a conventional instrument (2500) first and rings the secretary. if not answered within a given time.

I BACK. UP, DN?

Next lower executive extension is displayed. Repeat the procedure above for this extension.

DIRECT FORWARD

TO

press STORE and DIRECT FORWARD buttons in sequence

FORWARD ALL LINES		ines are to be to the same
	Enter.	-and STORE
		are forwarded to destinations, RE
Display when just STORE was entered in last step		
FORWARD LITNE 1	ENTER	and STORE

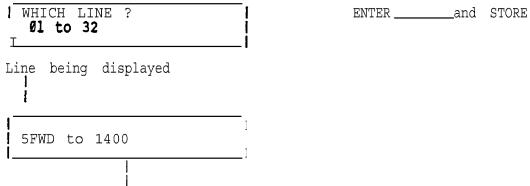
| FORWARD LINE 2 To

ENTER _____ and STORE

Repeat with every line to be forwarded

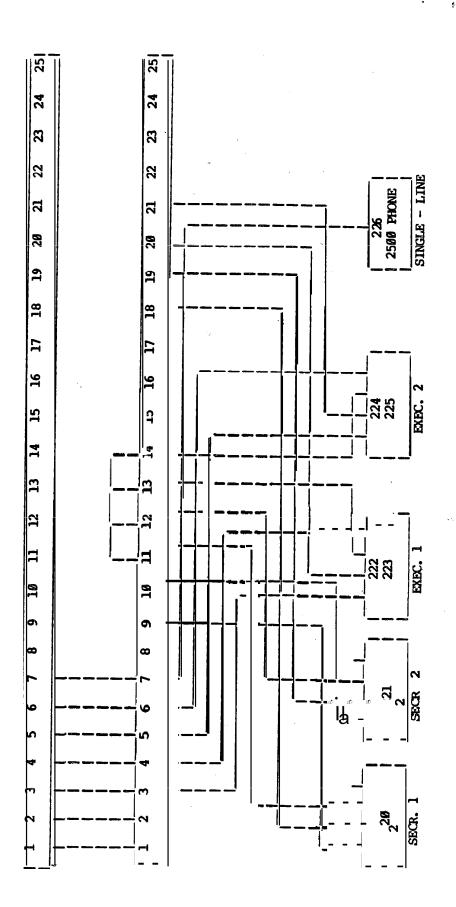
Enter STORE to skip lines.

To display DIRECT FORWARD, perform the following procedure Press DISPLAY and DIRECT FORWARD buttons in sequence



Station to which chosen line is forwarded

To program Executive Stations 1 and 2 go back to the procedures on page 27.



PBX EXTENSIONS

SET - 30

INSTALLATION MANUAL

TA-S30-1 Nov. 1, 1984

SET-30 INSTALLATION AND PROGRAMMING

The following information is a synopsis of the installation and programming procedures outlined in the SET-30 Documentation Package.

It is intended to provide the craftsperson with a quick overview of the steps- which have to be taken to install and program a SET-30. $\,$

For more detailed information, refer to the Documentation Package.

SET-30

SPECIFICATIONS

AUTOCOM

Number of Loops
PBX Loop Resistance
Loop Type
Power Loop Resistance
Power Loop Distance
Voltage

Hold **Frequence** Response Tones

Keys Display

Speakerphones
Handset
Data Retention
FCC Specification

2 + Intercom
1200 Ohm maximum
Loop Start
120 Ohm maximum
2200 FT @ 24 GA
24 to 56 VDC
Non-polarity Sensitive
Hard hold on all lines
300 - 3,400 Hz
Standard 12 DTMF
34
32 5x7 matrix, alphanumeric character,
LCD technology
Integral - Half Duplex
Standard K-type with modular connection

6 Years without power

Meets or exceed parts:

15 subpart J - Class A (EMI)

68 (network connection)

MULTIPLEXER

PBX Loop Type
PBX Lines
Secretary Stations
Power Connection

Loop Start
8 (32 with 4 multiplexers)
1 (2 on Multiplex II version)
42-56 VDC, 200 MA plus 200 MA per
phone maximum
Polarity sensitive

All specifications and prices are subject to change without notice.

PARTS LIST AND ORDER FORM

Note: These items are supplied by Siemens

ITE	M NOMENCLATURE	DESCRIPTION QUANTITY I
1	SET-30E PN-X5051-Al00	Programmable SET-30 Telephone (Exec. See 1, 2, or Private)
2	Multiplexer 1 PN-X5051-Al.02	I Single Secretary Multiplexer w/8 power conn.
3 T - 7	Multiplexer PN-X5051-A103 2	Dual Secretary Multiplexer w/8 power conn.
Ī 4 Ī	Power buffer Card PN-X5051-Al.04	For up to 25 SET-30ES Provides fused power conn.
i 5'	Local Power Adapter 24 Vdc 0:25A PN-X5051-Al01	Power supply for one SET-30
I 6	Card Cage Assembly PN-X5051-Al05	Holds up to 13 multiplexer I assemblies. Requires power supply.

GENERAL INFORMATION

SET-30 can be programmed to operate in any of the configurations shown below:

- 1. 2 dedicated line buttons stand-alone EXECUTIVE station.
- 2 dedicated line buttons plus intercom button EXECUTIVE station (with private or group secretary).
- 3. 2 dedicated line buttons plus **intercom** button PRIVATE SECRETARY station, (serving one EXECUTIVE station).
- 4. 4 nondedicated line buttons plus intercom 'button' GROUP SECRETARY station, serving **up** to 32 EXECUTIVE stations or nonexecutive stations (2500) phones).
- 5. 5 non-dedicated line buttons (without intercom) GROUP SECRETARY station serving up to 32 EXECUTIVE stations or nonexecutive stations (2500 phones).

The first or only secretary station of this type is programmed as SECRETARY 1. If a second secretary **station** is used, it is programmed as SECRETARY 2.

Stand-Alone EXECUTIVE stations are connected to the PBX only.

One EXECUTIVE, one SECRETARY combinations are connected to the PBX only with an intercom line between the two stations.

If one SECRETARY station screens calls for more than one EXECUTIVE station a Multiplexer I card is required.

If two SECRETARY stations (both) screen calls for EXECUTIVE stations, a Multiplexer II card is required.

Each Multiplexer group may use up to four 8-port multiplexer cards (of the **same** type).

SET-30 is powered locally, using an AC to DC converter, or connected to a multiplexer card, or connected to a power buffer card.

Each power buffer card supplies power for 25 instruments, individually fused at 400 ma @ 48V.

A 16-slot card cage is used to house' multiplexer and power buffer cards.

Multiplexer cards for the same group are placed in adjacent slots.

Each multiplexer group is separated by an "empty" slot.

If power buffer cards are used, they may be placed in any unoc-cupied slot, including the "empty" slot between multiplexer groups.

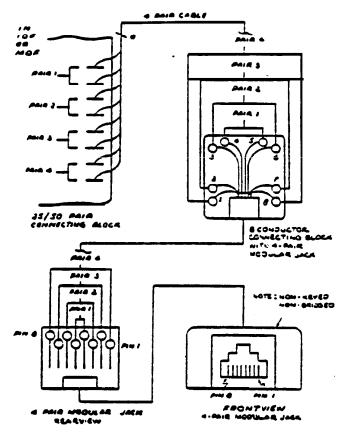
Power to the cage for the multiplexer $\,$ and buffer cards is $-48\,V$ and ground from a separate power supply.

'Total = 200 ma @ 48V X (number of multiplexer cards + number of multiplexer and buffer ports used)

Each multiplexer of buffer card is connected via a ${\tt 25-pair}$ cable to the MDF (female <code>amphenol</code> connector at ${\tt cage}$ end),

WIRING AND CABLING

SET-30 uses 4-pair wiring (using **RJ-45** connector)



Four Pair Station Wiring

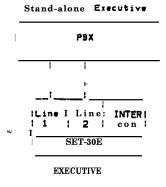
Stand-Alone EXECUTIVE St-

First pair (pin 4&5) T & R for <u>lst PBX line</u>. Connected to PBX station circuit.

Second pair (pins 3&6) Power (local or from buffer)

Third pair (pins 2&7) Not used
Fourth pair (pins 1&8) T & R for 2nd PRX line. Connected to PBX station circuit. Second line would normally not be used in this configuration.

Configuration Example SET-306



ONE EXECUTIVE/SECRETARY COMBINATION

Executive Station

T & R for 1st PBX line First pair (pins 4&5) Connected station \overline{c} ircuit and crossconnected to first pair - (pins **4&5)** of secretary station. <u>Power</u> (local or from buffer) Second pair (pins 3&6) Third pair (pins 2&7) Intercom crossconnected to third pair (pins **2&7)** of secretary station T & R for 2nd PRX line (optional). Connected to PBX station circuit. Crossconnected to fourth pair (pins Fourth pair (pins 1&8) 1&8) of secretary station, unless it is a private line.

Note: In the configuration above, if both PBX station circuits are crossconnected between the executive station and secretary station as shown, the first extension number will appear on the first button of both instruments, and the second extension number on the second button of both instruments.

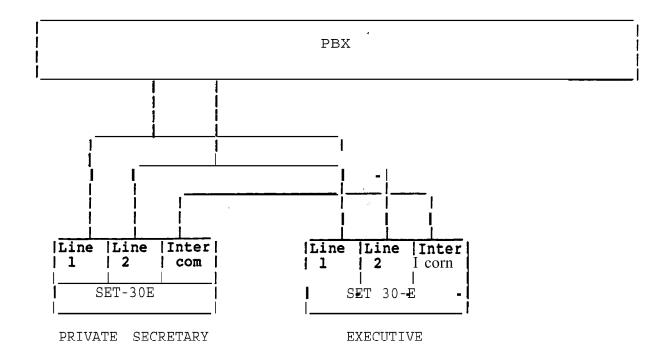
To have the extension numbers on one of the two instruments reversed, pair 1 at that station is crossconnected to pair. 4 of the other station, and pair 4 at that station is crossconnected to pair $\bf 1$ of the other station.

Private Secretary

First pair (pins 4&5)	T 6 R for lst PBX line Connected to PBX station circuit and crossconnected to first pair (pins
Second pair (pins 3&6) Third pair (pins 2&7)	4&5) of executive station. Power (local or from buffer) Intercom crossconnected to third pair (pins 2&7) of executive
Fourth pair (pins 1&8)	station. T & R for 2nd PBX line (optional). Connected to PBX station circuit. Crossconnected to fourth pair (pins 1&8) of executive station, unless
	it is a private line.

Configuration Example SET-30E

One Private Secretary Serving One Executive with Two Common Lines and Dedicated Intercom



MULTIPLEXER I OR II WIRING

Note: Different multiplexer cards are used for single and dual secretary applications.

Each PBX station circuit to appear at a SECRETARY station and an exeCuTIVe station is wired to a line pair on the multiplexer and the particular line on the **EXECUTIVE instrument** where it is to appear (pair 1 or 4 of the **4-pair** modular connector).

Each PBX station circuit to appear at a SECRETARY station and a conventional telephone (2500 set) is also wired to a line pair on the multiplexer and the line of the instrument. (Conventional instruments merely forwarded to a secretary are connected to the PBX only).

A PBX station circuit appearing at a SECRETARY station only is wired to a line pair on the multiplexer only.

A PBX station circuit appearing at an EXECUTIVE station only (never to be answered by a secretary) is wired to the particular line on the EXECUTIVE instrument where it is to appear (pair 1 or 4 of the cl-pair modular connector).

The INTERCOM pairs of all instruments are wired in parallel and in addition to pair 11 of one of the multiplexer cards in the multiplexer group.

The T&R pair (pair 1 on the **4-pair** modular connector) of SECRETARY **I** is wired to pair **9** of one of the multiplexer cards in 'the multiplexer group.

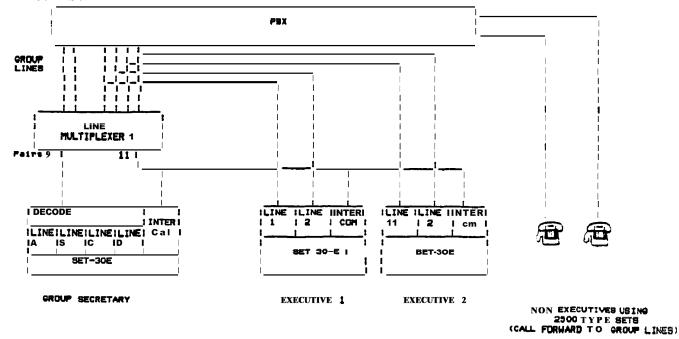
The T&R pair (pair 1 on the **4-pair** modular connector) of SECRETARY II (if used) is wired to pair 10 of one of the multiplexer cards in the multiplexer group.

Power for each instrument (pair 2 of the 4-pair modular connector) may be obtained locally, from the multiplexer card, or a power buffer card.

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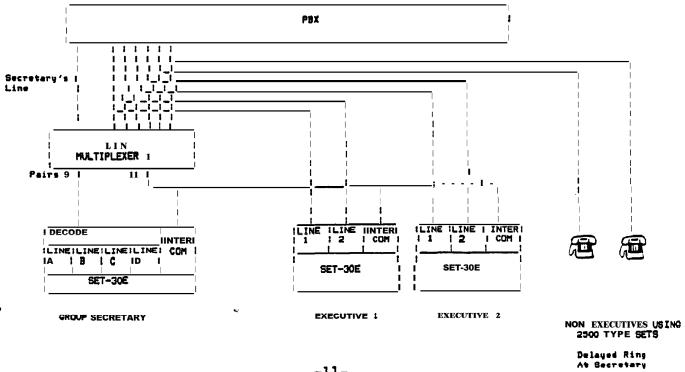
Configuration Example SET-30E

One group Secretary Serving Two Executives with Two Common Lines and Dedicated Intercom, and Serving Non-Executives as a Message Center with Group Lines to which they can forward their calls.



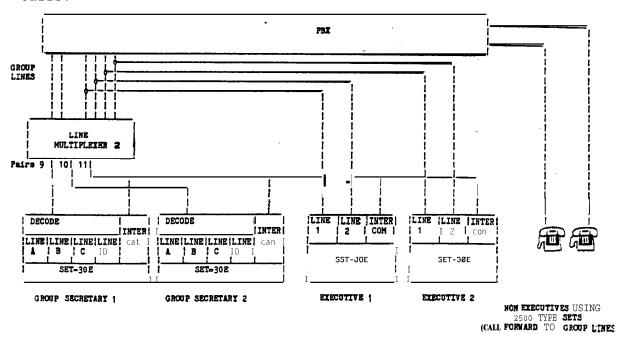
Configuration Example SET-30E

One group Secretary Serving **Two** Executives with Two Common Lines and Dedicated Intercom, and Two Non-Executives with Delayed Ring.



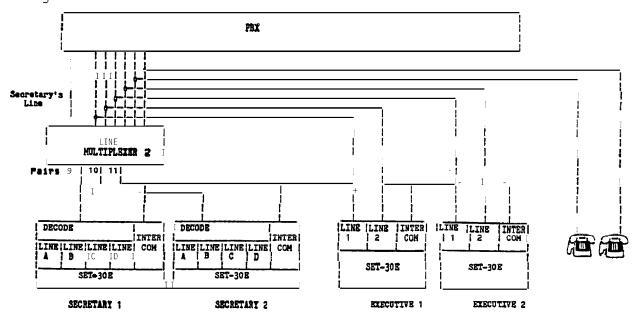
Configuration Example SET-30E

Two group Secretaries serving Two executives with Two **Common** Lines and Dedicated Intercom, and Serving Non-Executives as a Message Center with Group Lines to which they can forward their calls.



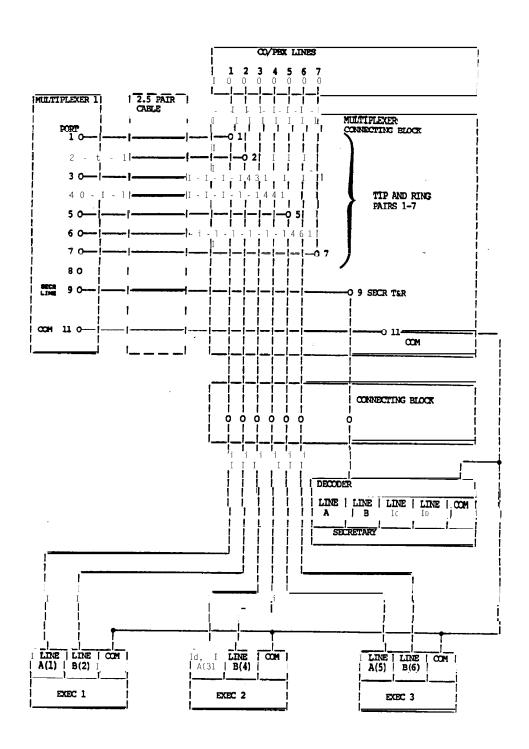
Configuration Example SET-30E

Two secretaries serving Two Executives with Two Common Lines and Dedicated Intercom, and Two Non-Executives with Delayed Ring.



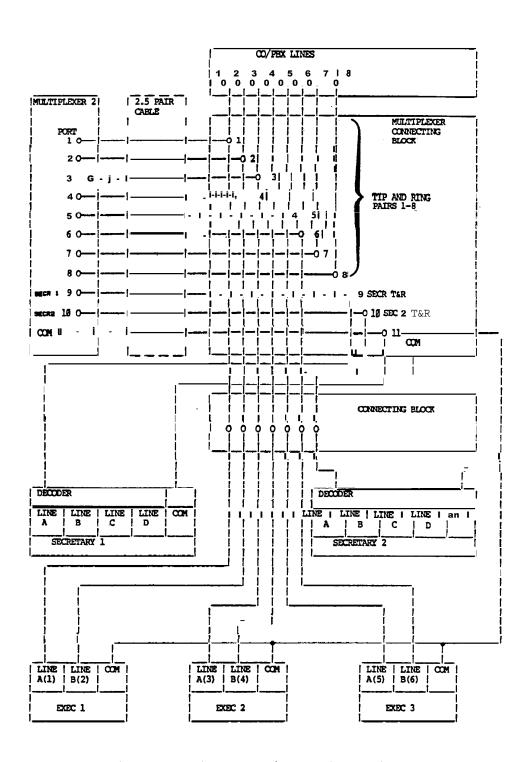
NON EXECUTIVES USING 2500 TYPE SETS

Delayed Ring at Secretary



Typical Multiplexer 1 Configuration

on Madeigner



Typical Multiplexer 2 Configuration

MULTIPLEXER I OR II PIN OUT

FUNCTION	IN/OUT	PAIR	<u>PINS</u>	COMMENT
Line 1 Line 2 Line 3 Line 4 Line 5 Line 6 Line 7 Line 8 Secretary 1 Secretary 2(Mux 2 only) Intercom Not Used	In In In In In In In In In Out Out In/Out	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	1,26 2,27 3,28 4,29 5,30 6,31 7,32 8,33 9,34 10,35 11,36 12,37 13,38 14,34 15,40 16,41 17,42	Polarity Insensitive † not used
Power 1 Power 2 Power 3 Power 4 Power 5 Power 6 Power 7 Power 8	Out Out Out Out Out Out Out Out	18 19 20 21 22 23 24 25	18,43 19,44 20,45 21,46 22,47 23,48 24,49 25,50	*Polarity Insensitive

Power Buffer Card Connections

PAIR	PINS	<u>FUNCTION</u>
1	1,26	Power
2	2,27	Power
3	3,28	Power
4	4,29	Power
5	5,30	Power
6	6,31	Power
7	7,32	Power
8	8,33	Power
9	9,34	Power
10	10,35	Power
11	11,36	Power
12	.12,37	Power
13	13,38	Power
14	14,39	Power
15	15,40	Power
16	16,41	Power
17	17,42	Power
18	18,43	Power
19	19,44	Power
20	20,45	Power
21	21,46	Power
22	22,47	Power
23	23,48	Power
24	24,49	Power
25	25,50	Power

INSTALLING KEY STRIPS

Key strips for each type of SET-36 are included with the User's Guide. Select the correct strip for the programmed SET-30. Type the extension(s) programmed for a Private Secretary or EXEC on the strip (Secretary 1 or 2 use the pre-typed strips). Remove the hand-set from the instrument and insert the strip into the slot at the lower right corner of the bottom hand-set well.

SYSTEM INITIALIZATION

After the programming of all instruments, to ensure proper system initialization prior to operation, unplugthe Secretary instruments, except Secretary 2, and then plug them back in. This ensures that each Secretary data base is transmitted and stored in the appropriate EXEC telephone, thereby allowing proper intercom link between telephones.